



Waterside Block 9 Developments Limited

Generic Quantitative Risk Assessment

Project Waterfront, Dublin 1.

602387-R02 (01)

FINAL

DECEMBER 2020



EXECUTIVE SUMMARY

RSK Ireland Limited (RSK) was commissioned by Waterside Block 9 Developments Limited to carry out a Generic Quantitative Risk Assessment (GQRA) at Project Waterfront, Dublin 1 (the site). A site location map is presented in Figure 1. RSK are advised that this report will form part of the application documentation for a mixed commercial and residential use with multiple basement levels and that there two abutting, but separate applications for two sites on the property. The purpose of the GQRA was to establish the contamination status of the soil and groundwater underlying the site and identify any potentially significant risks to human health and / or the water environment.

The earliest available map between 1837 – 1842 shows that the site was occupied by public baths located in the north-east corner. There is some industry in the local area including a vitriol works approximately 100m west of the site, a vinegar works approximately 200m north-west and a glass works to the north. The site was bounded by Mayor Street to the north, Fish Street (now Castleforbes Road) to the west, and the River Liffey to the south and east.

The map of the period 1888 - 1913 shows a timber yard and saw mills present on the site, with cattle pens in the south-east corner. The surrounding land use is predominantly commercial with a slate and tile yard less than 100m to the west, an ironworks beyond – approximately 200m to the west, a corn store approximately 100m to the north and a coal yard and goods station (train station) immediately to the east. There were several other timber yards, over ground storage tanks (OSTs) and cattle pens noted in the general area.

The 1995 aerial photograph shows the site with commercial/industrial buildings in place. The photograph resolution is poor, and the buildings cannot be identified. The railway infrastructure to the north and east is no longer present. The point depot complex is now located to the east. More recent aerial photos (2000, 2005) show little change from the 1995 aerial photo.

Following the completion of the environmental site assessment works and receipt of laboratory analytical results, a GQRA was completed to assess risks to human health and the water environment at the site.

The soil GACs for protection of human health with regards to a residential without home grown produce land use scenario were exceeded in soil samples analysed from sample locations as detailed in Tables 5.3 to 5.6 and summarised as follows;

- BH202 with regards to PAH compounds (benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene);
- BH204 with regards to aliphatic hydrocarbon bands EC10-EC12;
- BH208 with regards to PAH compounds (benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene);

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- BH213 with regards to dibenzo(ah)anthracene;
- BH219 with regards to dibenzo(ah)anthracene) and arsenic.
- BH223 with regards to aliphatic hydrocarbon bands EC8-EC10;
- BH226 with regards to dibenzo(ah)anthracene and lead;
- BH229 with regards to PAH compounds (benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene);
- BH231 with regards to benzo(b)fluoranthene and Lead;
- BH232 with regards to aliphatic hydrocarbon bands EC10-EC12, aromatic hydrocarbon bands EC16-EC21, PAH compounds (naphthalene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene);
- BH235 with regards to arsenic and lead;
- BH237 with regards to arsenic and lead;
- BH243 with regards to PAH compounds (benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene) and lead;
- BH244 with regards to lead;
- BH245 with regards to aliphatic hydrocarbon bands EC10-EC12, aromatic hydrocarbon bands EC16-EC21, PAH compounds (naphthalene, benzo(a)anthracene, benzo(b)fluoranthene and dibenzo(ah)anthracene);
- BH246 with regards to aliphatic hydrocarbon bands EC8-EC10, PAH compounds (naphthalene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(ah)anthracene);
- BH249 with regards to arsenic; and
- BH250 with regards to lead.

In addition, asbestos fibres (chrysotile) were identified in concentrations greater than 0.001%, indicating a potential risk to human health at the following locations and depths;

- BH212 0.0-1.0mbgl
- BH219 0.0-1.0mbgl; and
- BH249 0.0-0.5mbgl

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However, RSK considers that there is no risk to Human Health of future site users from the exceedences noted above as Soils on-site will be excavated to a depth of approximately 16mbgl and removed off-site as part of enabling works. This will result in the removal of all contaminated soils on-site.

The groundwater GACs for protection of human health with regards to a residential land use scenario were exceeded in groundwater samples analysed from sample locations as detailed in Tables 5.7 to 5.10 and summarised as follows;

- BH101 with regards to aliphatic hydrocarbon bands EC12-EC16;
- BH105 with regards to aliphatic hydrocarbon bands EC10-EC12;
- TP2 with regards to aliphatic hydrocarbon bands EC8-EC16;
- WS102 with regards to aliphatic hydrocarbon bands EC10-EC16; and
- WS104 with regards to aliphatic hydrocarbon bands EC10-EC16.

As outlined in section 6.1.2 these exceedences are not considered to represent a risk to human health. Therefore, no complete pollutant linkages with regards to risks to Human Health in a residential scenario have been identified at the site.

As noted in section 6.2.1, the groundwater GACs for the protection of environmental waters were exceeded in a number of boreholes on-site. Three surface water samples were retrieved from the River Liffey to assess receptor surface waters upstream, downstream and adjacent to the site. The surface water GACs for the protection of controlled freshwaters were not exceeded in any of the three samples taken along the River Liffey.

Given the results of surface water monitoring, no complete pollutant linkage has been identified between shallow groundwater contaminant concentrations on-site and the River Liffey. In addition, the boulder clay encountered at depth on-site is considered an aquitard to any downward movement of dissolved contaminants to the locally important aquifer below.

Based on the results and conclusions of the GQRA, RSK have proposed the following recommendations;

- As the site is to be excavated to a depth of approximately 16mbgl RSK does not consider it necessary to undertake any remediation measures with regards to impacted soils identified during the enabling works excavations as all soils are to be removed from site. Accordingly, RSK recommends that excavated waste soils are disposed of to an appropriately licensed landfill as per the Environmental Assessment and Soil Classification report⁽²⁾.
- Any impacted groundwater, encountered during enabling works, be pumped from the excavations and undergo treatment on-site which would enable pumped groundwaters to be disposed to sewer under discharge licence. A discharge licence will have to be attained from Dublin City Council to pump to the sewer. Treated water will require continual

monitoring to check that water quality standards are in compliance with the requirements of the discharge license.

- During enabling works, potential risks to construction workers should be mitigated through the implementation of measures by the contractor and their sub-contractor in accordance with construction health and safety legislation.
- An asbestos management plan should be put in place to manage the risks to construction workers from asbestos identified in soils on the site.
- During construction works where there is excavation and movement of soils, it is recommended that works be undertaken by appropriately trained contractors so that risks associated with the presence of asbestos in the soils on site are managed correctly.
- Surface water samples should be recovered from the Liffey upstream, adjacent to, and downstream of the site at regular intervals during the development works to monitor conditions for the potential of impacted groundwater discharging from the site to impact the quality of the River Liffey.



RSK GENERAL NOTES

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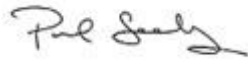

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Client: Waterside Block 9 Developments Limited

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Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by RSK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

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1 INTRODUCTION

RSK Ireland Limited (RSK) was commissioned by Waterside Block 9 Developments Limited to carry out a Generic Quantitative Risk Assessment (GQRA) at Project Waterfront, Dublin 1 (the site). Whilst the site is the subject of two schemes, this report looks at the overall site identified in the 2014 planning scheme as 'City Block 9'. RSK understands that the site will be redeveloped with multiple basement levels by way of two schemes; one a Strategic Development Zone (SDZ) compliant commercial scheme; the other a Strategic Housing Development (SHD) scheme. A site location map is presented in Figure 1. The purpose of the GQRA is to:

- Characterise the soil and groundwater regimes at the site;
- establish the contamination status of the soil and groundwater underlying the site; and
- to identify any potentially significant risks to human health and/or the water environment.

The following report has been prepared specifically and solely for the above noted cumulative project. Initial sections of the report describe the site. The subsequent part of the report contains a description of the ground conditions encountered, a summary of the assessment findings, a GQRA, conclusions and recommendations.

All plans, tables, field records and borehole logs relating to this investigation are either given within the text of the report or presented in the appendices. This report is subject to RSK's Service Constraints provided in Appendix A.

1.1 Scope of work

The scope of work for the GQRA included the following:

- Review of desk-based information.
- Field programme including drilling of fifty boreholes, installation of groundwater monitoring wells at fourteen borehole locations and soil sampling.
- Completion of one groundwater monitoring event to fully characterise and assess the groundwater underlying the site.
- Completion of one surface water monitoring event in the River Liffey.
- Comparison of laboratory soil and groundwater results to in-house derived screening values for human health for residential land use.
- Comparison of laboratory surface water results to in-house derived screening values for the protection of a controlled freshwater environment.
- Provision of a GQRA report summarising the findings of the desk study, field and laboratory programmes and GQRA screening of laboratory results.

1.2 Limitations

The comments given in this report and the opinions expressed are based on the information reviewed. However, there may be conditions pertaining at the site that have not been disclosed by the investigation and therefore could not be taken into account. Groundwater levels may fluctuate seasonally and tidally and at times be significantly different than those recorded. In addition, Made Ground can vary in thickness and nature over short distances and may be significantly different within areas not subject to the intrusive investigation.

This report is subject to the RSK Ireland Limited service constraints given in Appendix A.

2 SITE DESCRIPTION

The Waterfront property (the site) is situated at North Wall Quay at the junction of North Wall Quay and Castleforbes Road, Dublin 1 at national grid reference O 17789 34507. The site covers an area of approximately 2 hectares. The site location and setting is presented in Figure 1. At the time of the investigation all above ground site buildings and infrastructure had been removed. The south-west corner of the site, approximately half an acre in size, was being used for parking of vehicles and storage of construction materials for the ongoing development of a site immediately west of the Waterfront property.

The surface of the site generally consists of concrete with smaller areas of compacted stone. The site topography is generally flat. The site location is presented in Figure 1.

2.1 Surrounding Land-use

Land use surrounding the site is predominately mixed-use commercial and residential. To the north is Mayor Street Upper with office blocks and residential properties. To the south is the North Wall Quay with the River Liffey beyond. To the west is Castleforbes Road and a construction site. There is also a construction site to the east, beyond North Wall Avenue. RSK understands that the construction sites on Castleforbes Road and beyond North Wall Avenue are for commercial and residential mixed use. Three Arena entertainment venue is located approximately 60m to the east of the site.

3 SUMMARY OF PREVIOUS WORKS

3.1 Flannery Nagel Environmental Ltd; Desktop Study and qualitative Risk Assessment of Potentially Contaminated Undeveloped Sites within North Lotts and Grand Canal Dock. Reference DU01001 (dated November 2012)

Dublin City Council (DCC) commissioned Flannery Nagel Environmental Ltd (FNE) to perform a preliminary desk-top study and qualitative risk assessment of potentially contaminated undeveloped sites in the North Lotts and the Grand Canal Dock areas.

For the purposes of this preliminary risk assessment the sites were divided up into 12 Plots of land, delineated by the grid of road networks.

The report provides a risk ranking of the 12 plots, an overview of the risk assessment methodology employed, and recommendations for the development of potentially contaminated lands, as well as a detailed Plot Risk Report for each of the 12 plots.

The Waterfront site occupies the eastern half of Plot 5. Identified contaminants of concern include metals, asbestos, diesel, hydrocarbons, ammonia, creosote and phenols. The plot risk report scores the site as Low-Medium environmental risk.

A description of works required details the development of a conceptual site model and undertaking of a qualitative risk assessment. It was noted that particular attention should be paid to potential PAH contamination.

3.2 Site Investigations

Several phases of investigations have been undertaken at the site. In addition to an RSK report the client has provided IGSL and ARUP reports for works undertaken. Please note that the site is referred to as both the City Block 9 and the Waterfront site in the below reports. The IGSL, ARUP and RSK works and reports pertaining to the site are summarised below:

3.2.1 IGSL; Ground Investigation Report. Reference 19965 (dated May 2017)

IGSL were appointed by PUNCH Consulting Engineers to conduct a ground investigation and prepare a factual report. The investigation took place at the site between March and May 2017 and included:

- 6 no. cable percussive boreholes up to 15.5mBGL;
- 6 no. rotary boreholes drilled using coring techniques in the bedrock to depths of 27.5mBGL;
- 13 no. machine-dug trial pits;
- Groundwater and gas monitoring;

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- Geotechnical testing; and
- Environmental laboratory testing of 41 soil samples from the made ground to assist with soil classification.

No interpretative reporting was undertaken on the environmental samples.

3.2.2 ARUP; Preliminary Site Assessment (PSA) Report – City Block 9, North Quay Wall, Dublin. Reference 257849-00 (dated 7 August 2018).

ARUP completed a PSA including a site walkover at the site during September 2017. The scope of the PSA included:

- A review of the published information showing former activities on the site;
- A review of the results of the previous site investigation;
- A site walkover carried out in September 2017;
- Interviews with the site caretaker;
- Review of information collect previously from Dublin City Council on groundwater abstractions and unlicensed landfills on their register in the area; and
- Development of a preliminary conceptual site model.

The desk-based study highlighted that the site has had a number of uses that could have caused contamination including a saw mill and timber yard operated by T&C Martin Ltd.

The PSA also reviews a previous site investigation undertaken by IGSL which is detailed in section 3.1, above. ARUP conclude that the site investigation proved contamination on the site including:

- An area of hydrocarbon odours and sheens in the top 4m of made ground in the north-central section of the site.
- Strong hydrocarbon odours at 21m below ground level in the west-central section.
- High concentrations and flows of ground gases.

The ARUP report stated that while the investigation has identified contamination the extent and source of the contamination is not clearly defined. The ARUP report also stated that the potential for the site investigation to have worsened contamination by leaving a pathway for contamination to migrate was not considered. The PSA notes a number of additional items which require further investigation :

- Removal of the IGSL groundwater monitoring boreholes;
- Preliminary stage of geophysical investigation;
- The window sampling site investigation to determine the extent of the contamination in the made ground and sample the perched groundwater;
- The excavation of trial pits in and around any tanks/pits to inspect the nature of any contamination they may contain and visually inspect their integrity;

- The drilling of boreholes (window sampling) to assess areas which were not previously investigated due to the presence of buildings and which based on this PSA could be contaminated e.g. near the substation and oil store;
- Installation of groundwater monitoring boreholes around the site and up and down gradient of the contaminated areas (around TP05 and BH02);
- Deep borehole to the top of rock with a high quality recovery of superficial deposits to investigate the extent of the potential DNAPL identified in BH02;
- Gas monitoring of the shallow boreholes for bulk gases and vapours; and
- In addition, it may be useful to collect additional information to aid waste classification of the soils in the area of the proposed basement.

3.2.3 ARUP; Detailed Site Assessment (DSA) Report – City Block 9, North Quay Wall, Dublin. Reference 257849 18_08_03 (dated 7 August 2018).

The DSA was carried out to assess potential contamination within the site boundary and identify pollutant linkages which may pose a risk to sensitive receptors as per recommendations made in the PSA summarised in 3.2.2. The DSA comprised a ground investigation, a Generic Quantitative Risk Assessment (GQRA) and waste soil classification. In addition, the IGSL drilled boreholes that were considered potential pathways for contaminants in the made ground were decommissioned. This DSA is based on the available ground investigation and monitoring data from an investigation carried out between 6th March and 5th June 2018. As part of the DSA intrusive works were undertaken which comprised;

- an unspecified number of trial pits in the north of the site;
- fourteen shallow window sample holes (WS101 to WS114); and
- eleven groundwater monitoring holes (BH101 to BH111)

The key findings of the investigation are detailed as:

- A buried pit was located in the north of the site which was likely to have been used for the treatment of timber by soaking the wood in creosote (also known as coal tar);
- Coal tar and coal tar contaminated soils (with concentrations of compounds above the human health criteria) were observed in the buried pit and the made ground around it;
- Vapours from the buried pit exceed the Occupational Exposure Limits for benzene;
- Asbestos was observed in the upper layer of made ground;
- The buried pit leaks and small amounts of coal tar contaminated water were observed in the deep made ground and in the groundwater in the sand and gravel beneath the buried pit;
- There is no evidence to show that the effect on the groundwater quality in the sand and gravel extends beyond 75m down hydraulic gradient of the buried pit and this is within the site boundary;
- No coal tar or other type of NAPL was observed in the water bearing gravel under the buried pit or in the borehole drilled adjacent to the borehole from the previous investigation which had contained NAPL; and

- The monitoring installation in BH02 is considered to have provided a pathway for contamination between the contaminated made ground and the groundwater in the sand and gravel but is now fully decommissioned and the pathway has been removed.

ARUP concluded that;

- the construction of a basement and excavation of the made ground at the site will eliminate or reduce the majority of the contamination highlighted in this assessment; and
- the results of this assessment highlight that some simple remedial measures will be needed in the north of the east of the site where soils will be retained on site. *(It should be noted that the soils mentioned are now to be removed from site as part of the proposed development enabling works).*

In addition, a number of residual risks are highlighted by ARUP which should be considered during the detailed design and construction of the site. These include, the results of this assessment are based on one round of groundwater monitoring. While these are considered to be representative, groundwater quality is subject to variations dependant on the prevailing climatic conditions. Should the development of the site be delayed, and the removal of the source not take place with 12 months, it is recommended that an additional two rounds of groundwater monitoring are carried out within 3 months of each other to confirm that the conclusions of this report remain valid.

3.3.4 RSK; Environmental Assessment and Soil Classification, Project Waterfront, Dublin 1. Reference 602387 R01 (dated April 2019).

As part of the current works RSK completed a Soil Waste Classification report for the site based on the results of 568 representative soil samples collected from fifty (50) boreholes across the site. The boreholes were drilled to a maximum depth of 17m below ground level (bgl). Made ground was encountered to a maximum depth of 9.0m bgl in BH242, the made ground was generally underlain by natural deposits of silt, sandy gravel and boulder clay.

Based on the soil classification assessment undertaken, Table 1 provides a summary of the assessment.

Suitable Landfill	European Waste Code (EWC)	Estimated m ³ of Material
Hazardous	17.05.03	6,992
Non-hazardous	17.05.04	179,822
Inert	17.05.04	129,751

Table 1: Summary of Waste Quantities & Classification on Soil Samples

RSK have also undertaken an environmental assessment (EA) of the natural, undeveloped silts gravels and clay material to be excavated from depth at the site during the construction of the basement. The EA comprises a quantitative risk assessment (QRA) of the laboratory analytical data.

RSK have assessed the laboratory results of samples of natural material (i.e. non made ground) collected from the fifty (50) boreholes (BH201 – BH250) drilled on a 20m grid across the site. Samples collected from these locations have been described and logged as Natural Silts, Gravels / Sands and Boulder Clay. In total, the results of laboratory analysis for two hundred and eighty-nine (289) samples of natural silts, gravels /sands and boulder clay were screened for the QRA.

The results of laboratory analysis were compared to generic assessment criteria (GAC) derived by RSK for phytotoxic impact (environmental) and public open space impact (human health) to complete a QRA of the Natural Silts, Gravels and Boulder Clay material to be excavated at the site.

Based on the results of a Quantitative Risk Assessment we have made the following conclusions:

- Based on the adopted GAC, natural soils underlying the site do not present a risk to the environment or human health.

RSK consider that identified natural soils identified at the site are uncontaminated and suitable to be classified as a by-product under Article 27 of the *European Communities (Waste Directive) Regulations 2011* for the following reasons:

- The material underlying the site has not been impacted by any anthropogenic activities at the site.
- No visual or olfactory evidence of contamination was noted by RSK in the material.
- An environmental risk assessment comprising a QRA did not report any potential risk to human health.
- An environmental risk assessment comprising a QRA did not report any risk to the environment.

4 DESK STUDY REVIEW

The desk study review is detailed in the following section and summarises information obtained from the Ordinance Survey of Ireland (OSI) database located at <http://map.geohive.ie/mapviewer.html>

4.1 Site Geology

According to mapping compiled by the Geological Survey of Ireland (GSI) and site observations the site is underlain by made ground overlying alluvial deposits and glacial Limestone till. the solid geology comprises the Calp, Marine Shelf Facies Formation of Carboniferous age, which is described as limestone and calcareous shale of the Tobercolleen and Lucan formations.

4.2 Hydrogeology

According to the GSI, aquifers in the Republic of Ireland are classified as follows:

- Regionally Important – An aquifer which is sufficiently productive to be able to yield enough water to boreholes or springs to supply major regional water schemes. These are divided into: extensive sand/gravel aquifers; karst aquifers; and fissured aquifers.
- Locally Important – An aquifer which is moderately productive, i.e. capable of yielding enough water to boreholes or springs to supply villages, small towns or factories. These are divided into: Sand/gravel aquifers; Bedrock aquifers which are generally moderately productive; and Bedrock aquifers which are moderately productive only in local zones.
- Poor – An aquifer which is normally capable of yielding only sufficient water from wells or springs to supply single houses, small farms or small group water schemes. These can be sub divided into: Bedrock aquifers which are generally unproductive except for local zones and Bedrock aquifers which are generally unproductive.

The aquifer underlying the site has been classified by the GSI as a locally important aquifer. The vulnerability of the aquifer has been classified as Low.

4.2.1 Licensed Groundwater Abstractions

There are no licensed groundwater abstractions identified by the GSI within a 1km radius of the site.

4.3 Hydrology

The nearest surface watercourse is the River Liffey approximately 30m to the south of the site. The River Liffey is described as ‘transitional’ at this location. The river water quality status for the River Liffey at this location is classified by the EPA as “unpolluted”.

4.4 Historical Land Uses

A review of the site history was undertaken by assessing the available historical maps and land use data (available at <http://map.geohive.ie/mapviewer.html>)

The earliest available map between 1837 – 1842 shows that the only feature on site was a public baths located in the north-east corner. There is some industry in the local area including a vitriol works approximately 100m west of the site, a vinegar works approximately 200m north-west and a glass works to the north. The site was bounded by Mayor Street to the north, Fish Street (now Castleforbes Road) to the west, and the River Liffey to the south and east.

The map of the period 1888 - 1913 shows a timber yard and saw mills present on the site, with cattle pens in the south-east corner. The surrounding land use is predominantly commercial with a slate and tile yard less than 100m to the west, an ironworks beyond – approximately 200m to the west, a corn store approximately 100m to the north and a coal yard and goods station (train station) immediately to the east. There were several other timber yards, over ground storage tanks (OSTs) and cattle pens noted in the general area.

The 1995 aerial photograph shows the site with commercial/industrial buildings in place. The photograph resolution is poor, and the buildings cannot be identified. The railway infrastructure to the north and east is no longer present. The point depot complex is now located to the east. More recent aerial photos (2000, 2005) show little change from the 1995 aerial photo.

4 FIELDWORK

4.1 Borehole Drilling & Monitoring Well Installation

A total of fifty (50) boreholes were drilled between December 11th 2018 and February 1st 2019 using a Commacchio 305 rotary drilling rig. Boreholes were advanced to a maximum depth of 17.0 metres below ground level (mbgl). Drill cuttings were logged, groundwater conditions were noted, and representative soil samples collected by the supervising engineer. The locations of the boreholes are shown on Figure 2.

Fourteen (14) selected boreholes were completed as monitoring wells by installing 50 mm internal diameter HDPE screen and casing. The borehole annulus was backfilled with 6 mm to 10 mm graded gravels with a bentonite seal placed above the filter pack to prevent any downward migration of surface water and or perched groundwater. The wells were finished with stand-up lockable covers.

Details of the monitoring well construction are presented on the borehole logs in Appendix B.

4.2 On-site Screening and Soil Sampling

During borehole drilling, soil samples were screened for volatile hydrocarbons using a photo ionisation detector (PID) equipped with a 10.6 eV lamp. The results of this are shown on the borehole logs in Appendix B. Selected soil samples were submitted to ALS for laboratory chemical analysis for potential contaminants of concern (COC).

4.3 Groundwater and Surface Water Sampling

Following installation, all fourteen (14) monitoring wells and twenty-four (24) existing monitoring wells were gauged for depth to water and the presence of light non-aqueous phase liquid (LNAPL) and dense non-aqueous phase liquid (DNAPL) if present, using an electronic interface probe. The wells were then purged and left to allow equilibration of groundwater levels.

Groundwater samples were retrieved from the newly installed monitoring wells and the existing monitoring wells using a USEPA approved 'Low-Flow' Purging and Sampling Methodology between February 18th and February 26th 2019. The low-flow method relies on moving groundwater through the well screen at approximately the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Drawdown levels in the monitoring well and water quality indicator parameters (pH, temperature, electrical conductivity, redox potential and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete, and sampling can begin. As the flow rate used for purging is, in most cases, the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as Low-Flow Purging and Sampling. Low flow sampling forms can be provided upon request.

Samples were then collected in the required laboratory-supplied containers prior to dispatch via chilled storage to ALS for laboratory chemical analysis for potential COCs.

A subsequent groundwater gauging exercise was undertaken on 7th June 2019. It should be noted that monitoring wells BH218, BH225 and BH231 were destroyed by construction traffic prior to groundwater gauging on the 7th June 2019.

Surface water samples were retrieved from the River Liffey located approximately 30 m to the south of the site on 24th May 2019. The samples were taken at accessible locations, with an upstream sample, recovered adjacent to 73 North Wall Quay (US); a downstream sample, recovered adjacent to the 3 Arena (DS); and a sample recovered adjacent to the site (ADJ).

Samples were collected in glass containers prior to forwarding, via chilled storage, to ALS Environmental.

4.4 Laboratory Testing

Five-hundred and sixty-eight (568) selected soil samples, thirty-one (31) groundwater samples and three (3) surface water samples were analysed for a suite of parameters, which consisted of:

Total petroleum hydrocarbons (TPH), split into aliphatic and aromatic carbon bands, metals, polycyclic aromatic hydrocarbons (PAH), benzene, toluene, ethylbenzene and xylene (BTEX), methyl tertiary-butyl ether (MTBE), PCBs, Phenols, Cyanide and SVOCs. In addition, the water samples were analysed for ammoniacal nitrogen.

Soil samples was also analysed for the presence of asbestos and waste acceptance criteria (WAC) determinants.

5 RESULTS OF THE INVESTIGATION

5.1 Fieldwork

The following sections present the results of the intrusive investigation. Descriptions of the strata encountered, together with comments on tests *in situ*, well design and groundwater conditions are given in Appendix B.

5.1.1 Encountered Ground Conditions

The site investigation identified made ground to a maximum depth of 9.0 mbgl. The made ground was found to be quite variable but generally comprised a concrete slab on top of sandy gravel fill, overlying sandy gravelly clay or silt; which in turn overlay reworked silt layers.

Below the reworked silts were alluvial deposits consisting of natural silts overlying sands and gravels. The sands and gravels were underlain by boulder clay.

5.1.2 Soil Screening

PID concentrations ranged from < 0.1 ppm for the majority of samples across the site, up to 26.3 ppm in BH230 0.5 - 1.0 mbgl. The full results of the soil screening are presented on the borehole logs in Appendix B.

5.1.3 Groundwater Gauging

The results of the groundwater gauging exercise undertaken on 7th June 2019 indicated that it is unlikely that there is a continuous 'shallow' groundwater table within the overburden soils encountered beneath the site. Of the thirteen shallow wells, installed within the made ground, only five had groundwater present.

Groundwater gauging on the 'deep' wells, installed within the gravel layer indicated the presence of a continuous groundwater body within the gravels. The depth to water ranged between -0.081 mAOD (metres above ordinance datum) (BH110a) and -0.195 mAOD (BH229). It was not possible to determine a groundwater flow direction as it is likely that there is a degree of tidal influence on the groundwater underlying the site. It is assumed however, that groundwater in the shallow gravel aquifer is likely to flow in a south to south easterly direction towards the River Liffey.

The results for the second groundwater gauging visit are tabulated in table 5-1 and table 5-2.

Table 5-1: Groundwater Gauging Results – Shallow Monitoring Wells

Location	Top of Casing (mAOD)	Depth to LNAPL/DNAPL (mTOC)	Depth to Water (mTOC)	Water Table Elevation (mAOD)
WS113	4.183	Not detected	0.856	3.327
WS110	4.301	Not detected	2.138	2.163
BH214	5.08	Not detected	4.12	0.96
BH217	4.664	Not detected	4.583	0.081
BH209	4.508	Not detected	4.535	-0.027
BH232	4.271	Not detected	DRY	DRY
BH237	4.535	Not detected	DRY	DRY
WS101	4.057	Not detected	DRY	DRY
WS103	4.053	Not detected	DRY	DRY
WS105	4.136	Not detected	DRY	DRY
WS107	4.075	Not detected	DRY	DRY
WS109	4.123	Not detected	DRY	DRY
WS111	4.270	Not detected	DRY	DRY

Table 5-2: Groundwater Gauging Results – Deep Monitoring Wells

Location	Top of Casing (mAOD)	Depth to LNAPL/DNAPL (mTOC)	Depth to Water (mTOC)	Water Table Elevation (mAOD)
BH110A	4.196	Not detected	4.277	-0.081
BH110	4.266	Not detected	4.359	-0.093
BH107	4.061	Not detected	4.158	-0.097
BH213	5.019	Not detected	5.122	-0.103
BH103	4.011	Not detected	4.115	-0.104
BH104	4.310	Not detected	4.418	-0.108
BH109A	4.478	Not detected	4.600	-0.122
BH249	3.900	Not detected	4.022	-0.122
BH108	4.166	Not detected	4.289	-0.123
BH108A	4.359	Not detected	4.486	-0.127
BH111A	4.259	Not detected	4.392	-0.133
BH109	4.558	Not detected	4.701	-0.143
BH244	4.201	Not detected	4.345	-0.144
BH243	3.984	Not detected	4.135	-0.151
BH206	4.504	Not detected	4.664	-0.16
BH229	4.810	Not detected	5.005	-0.195

5.2 Soil Analytical Results

Five hundred and sixty-eight (568) soil samples were sent to ALS laboratory for analysis. A summary of the concentrations of COCs reported by the laboratory analysis are presented in Table 5-3 to 5-6 inclusive. The laboratory reports are presented within Appendix C.

Table 5-3: TPH, BTEX and MTBE Soil Analytical Results

Contaminant of Concern	Max. Reported Concentration (mg/kg)	Location (m)	GAC Human Health Residential* (mg/kg)	GAC Exceedences (mg/kg)
Aliphatic EC5-EC6	0.508	BH245 (4-5)	78	-
Aliphatic EC6-EC8	3.28	BH245 (4-5)	230	-
Aliphatic EC8-EC10	75.8	BH223 (3-4)	65	BH223 3-4 (75.8), BH246 2-3 (65.7)
Aliphatic EC10-EC12	361	BH204 (1-2)	330 (118)	BH204 1-2 (361), BH232 0.5-1 (345), BH245 4-5 (331)
Aliphatic EC12-EC16	1,760	BH204 (1-2)	2400 (59)	-
Aliphatic EC16-EC35	1,990	BH204 (1-2)	92000 (21)	-
Aliphatic EC35-EC44	2,070	BH219 (3-4)	92000 (21)	-
Aromatic EC8-EC10	50.5	BH223 (3-4)	115	-
Aromatic EC10-EC12	240	BH204 (1-2)	600	-
Aromatic EC12-EC16	2,320	BH245 (3-5)	2300	BH245 3.0-4.0 (2,320), BH245 4.0-5.0 (2,320)
Aromatic EC16-EC21	2,400	BH245 (3-4)	1900	BH232 0.5-1 (2,000), BH245 3-4 (2,400), BH245 4-5 (2,140)
Aromatic EC21-EC35	1,140	BH232 (0.5-1)	1900	-
Benzene	0.668	BH245 (4-5)	1.6**	-
Toluene	5.58	BH245 (4-5)	1900	-
Ethylbenzene	4.05	BH246 (3-4)	190	-
Xylene	14.5	BH246 (3-4)	180	-
MTBE	<2	All	170	-

*GACs used are for Residential without homegrown produce. SOM of 2.5% used based on site TOC results

**LMDL in some samples (<1.8mg/kg) exceeds the GAC. Where a result <LMDL is recorded a non-exceedence will be inferred.

All – All results are below the LMDL

Figures in brackets in the “GAC for SOM” column – RSK has adopted an approach for petroleum hydrocarbons in accordance with LQM/CIEH whereby the concentration modelled for each petroleum hydrocarbon fraction has been tabulated as the GAC with the corresponding solubility or vapour saturation limits given in brackets. Where no LNAPL is recorded the modelled GAC is used for screening purposes.

Table 5-4: PAH Soil Analytical Results

Contaminant of Concern	Max. Reported Conc. (mg/kg)	Location (m)	GAC Human Health Residential* (mg/kg)	GAC Exceedences (mg/kg)
Naphthalene	373	BH245 (3-4)	55	BH232 0.5-1 (187), BH245 3-4 (373), BH245 4-5 (96.2), BH246 3-4 (229)
Acenaphthylene	12.7	BH245 (3-4)	7,200	-
Acenaphthene	230	BH245 (3-4)	7,200	-
Fluorene	175	BH245 (3-4)	3,800	-
Phenanthrene	434	BH245 (3-4)	1,450	-
Anthracene	513	BH232 (0-0.5)	35,000	-
Fluoranthene	163	BH232 (0-0.5)	1,600	-
Pyrene	108	BH232 (0-0.5)	3,800	-
Benzo(a)anthracene	20.3	BH229 (0-0.5)	13.6	BH229 0-0.5 (20.3), BH232 0-0.5 (20.3), BH232 0.5-1 (15), BH245 3-4 (14)
Chrysene	17	BH229 (0-0.5)	31	-
Benzo(b)fluoranthene	19	BH229 (0-0.5)	4	BH202 0.5-1 (5.51), BH208 0-0.5 (6.76), BH229 0-0.5 (19), BH231 0-0.5 (6.72), BH232 0-0.5 (10.7), BH232 0.5-1 (7.01), BH232 1-2 (4.43), BH243 0-0.5 (16.5), BH243 0.5-1 (10.8), BH245 3-4 (6.38), BH245 4-5 (5.67), BH246 3-4 (6.66)
Benzo(k)fluoranthene	72.8	BH229 (0-0.5)	107	-
Benzo(a)pyrene	19.2	BH229 (0-0.5)	5.3	BH208 0-0.5 (6.5), BH229 0-0.5 (19.2), BH232 0-0.5 (8.7), BH232 0.5-1 (5.97), BH243 0-0.5 (12.4), BH243 0.5-1 (7.87), BH246 3.4 (6.29)
Indeno(123cd)pyrene	9.56	BH229 (0-0.5)	45	-
Dibenzo(ah)anthracene	2.89	BH229 (0-0.5)	0.32	BH202 0.5-1 (0.692), BH208 0-0.5 (0.944), BH213 0.5-1 (0.45), BH219 0.5-1 (0.331), BH226 0-0.5 (0.483), BH229 0-0.5 (2.89), BH232 0-0.5 (0.575), BH232 0.5-1 (0.421), BH232 1-2 (0.575), BH232 2-3 (0.575), BH243 0-0.5 (1.31), BH243 0.5-1 (1.19), BH245 3-4 (1.15), BH245 4-5 (0.362), BH246 2-3 (0.312), BH246 3-4 (0.59)
Benzo(ghi)perylene	12.8	BH229 (0-0.5)	358	-

*GACs used are for Residential without homegrown produce. SOM of 2.5% used based on site TOC results

Figures in brackets in the "GAC for SOM" column – RSK has adopted an approach for petroleum hydrocarbons in accordance with LQM/CIEH whereby the concentration modelled for each petroleum hydrocarbon fraction has been tabulated as the GAC with the corresponding solubility or vapour saturation limits given in brackets. Where no LNAPL is recorded the modelled GAC is used for screening purposes.

Table 5-5: Metals, Phenols and PCBs Soil Analytical Results

Contaminant of Concern	Max. Reported Concentration (mg/kg)	Location (mbgl)	GAC Human Health Residential* (mg/kg)	GAC Exceedences (mg/kg)
Arsenic	95	BH219 (0-0.5)	40	BH219 0-0.5 (95), BH219 0.5-1 (48.4), BH235 8-9 (41.4), BH237 0-0.5 (74.2), BH237 0.5-1 (74.9), BH249 6-7 (56.9)
Cadmium	20.2	BH237 (0-0.5)	149	-
Chromium VI	<0.6	All	21	-
Copper	1730	BH237 (0-0.5)	7100	-
Lead	2760	BH237 (0-0.5)	310	BH216 0.5-1 (336), BH224 1-2 (534), BH226 0-0.5 (657), BH231 0-0.5 (839), BH235 0-0.5 (346), BH237 0-0.5 (2,760), BH237 0.5-1 (2,350) BH243 0-0.5 (723), BH244 0-0.5 (448), BH250 0.5-1 (548)
Mercury	3.53	BH244 (2-3)	56	-
Nickel	56.3	BH237 (12-13)	180	-
Selenium	10	BH237 (0-0.5)	430	-
Zinc	7,810	BH237 (0.5-1)	40000	-
Phenols	<0.06	All	1,170	-
PCBs	0.26	BH242 (5-6)	-	-

*GACs used are for Residential without homegrown produce. SOM of 2.5% used based on site TOC results
All – All results are below the LMDL

5.2.1 Soil Asbestos Analysis

Five hundred and sixty-eight (568) soil samples were analysed for the presence of asbestos. The laboratory reports are presented in Appendix C.

Asbestos was detected in twelve (12) of the samples forwarded for analysis. The samples in which asbestos has been identified including asbestos type and quantification are detailed in Table 5-6 below.

Table 5-6: Asbestos Soil Analytical Results

Location	Asbestos Type and Depth (mbgl)	Dry Weight %	Comments
BH209	Amosite (0-0.5)	<0.001	Fibre bundle in soil
	Amosite (0.5-1)	<0.001	Fibre bundle in soil
BH212*	Chrysotile (0.0-1)	Not quantified	Debris typical of asbestos cement
BH217	Chrysotile (12.5-14)	<0.001	ACM debris
BH219	Chrysotile (0.0-0.5)	0.0112	ACM debris and loose fibres
	Chrysotile (0.5-1)	0.0026	ACM debris
BH220	Chrysotile (2-3)	<0.001	Loose fibres and ACM debris
BH224	Chrysotile (2-3)	<0.001	Fibre bundle in soil
BH232	Chrysotile (10-12.5)	<0.001	Loose fibres in soil
BH248	Chrysotile (0-0.5),	<0.001	ACM debris
	Chrysotile (1-2)	<0.001	ACM debris
BH249	Chrysotile (0.0-0.5)	3.14	Debris typical of asbestos cement

Where values are in **bold** they have exceeded the 0.001% asbestos content indicating a risk to human health

*Asbestos in BH212 from 0-1.0 mbgl was not quantified. Therefore, it has been assumed, conservatively, that asbestos in this sample has exceeded the 0.001% quantification.

5.3 Groundwater Analytical Results

The results of the laboratory analysis of the thirty-one (31) groundwater samples taken are presented in Table 5-7 to Table 5-10 inclusive. The results of the groundwater laboratory analysis are included in Appendix D.

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Table 5-7: TPH, BTEX and MTBE Groundwater Analytical Results

Contaminant of Concern	Max. Reported Concentration (µg/L)	Location	GAC Human Health (µg/L)	GAC Protection of Water Environment (µg/L)	GAC Exceedances (µg/L)
Aliphatic EC5-EC6	26	TP2	35,900	***	-
Aliphatic EC6-EC8	569	TP2	5,370	***	-
Aliphatic EC8-EC10	1,450	TP2	427	***	TP2 (1,450)
Aliphatic EC10-EC12	6,630	TP2	33.9	***	TP2 (6,630), WS102 (34), WS104 (717), BH105 (120), BH244 (245)
Aliphatic EC12-EC16	282	WS102	0.759**	***	TP2 (36), WS102 (282), WS104 (67), BH101 (34), BH244 (29),
Aliphatic EC16-EC21	335	WS102	*	***	-
Aliphatic EC21-EC35	11,900	BH237	*	***	-
Aromatic EC5-EC7	742	TP2	*	***	-
Aromatic EC7-EC8	635	TP2	*	***	-
Aromatic EC8-EC10	1,880	TP2	58,400	***	-
Aromatic EC10-EC12	4,420	TP2	245,000	***	-
Aromatic EC12-EC16	2,730	TP2	5,750	***	-
Aromatic EC16-EC21	417	WS104	*	***	-
Aromatic EC21-EC35	3,030	BH237	*	***	-
Total TPH	19,500	TP2	*	7.5 ^{(1)**}	<u>BH101 (107), BH105 (575), BH229 (10), BH237 (15,100), BH244 (1,570), TP2 (19,500), WS102 (1,080), WS104 (3,790)</u>
Benzene	1,270	TP2	6,680	0.75 ^{(1)**}	<u>WS104 (55), TP2 (742)</u>
Toluene	635	TP2	590,000	52.5 ⁽¹⁾	<u>TP2 (635)</u>
Ethylbenzene	96	TP2	180,000	10 ⁽²⁾	<u>TP2 (96), WS104 (26)</u>
Xylene	811	TP2	173,000	10 ^{(2)**}	<u>BH105 (28), BH244 (18), TP2 (811), WS104 (83)</u>
MTBE	<3	All	2,481,040	10 ⁽¹⁾	-

Where values are in **bold** they have exceeded the GAC for Human Health

Where values are underlined the have exceeded the GAC for Environmental Waters

GAC Human Health Residential (Sandy Loam GW Depth 0.65 mbgl used)

(1) S.I. 366 European Union Environmental Objectives (Groundwater) (Amendment) Regulations 2016

(2) EPA Interim Report Towards Setting Guideline values for the Protection of Groundwater in Ireland 2003

* GAC not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data

** GAC is set below the LMDL. Where the analysis indicates concentrations below the LMDL a non-exceedence of the criteria will be inferred.

*** No GAC available in legislation or guidance.

Table 5-8: PAH Groundwater Analytical Results

Contaminant of Concern	Max. Reported Conc. (µg/L)	Location	GAC Human Health (ug/L)	GAC Protection of Water Environment (ug/L)	GAC Exceedances (µg/L)
Naphthalene	277	TP2	19,000	1.0 ⁽²⁾	<u>TP2 (277), WS104 (40), BH237 (5.02)</u>
Acenaphthylene	4.8	BH105	7,950	***	-
Acenaphthene	179	BH244	4,100	***	-
Fluorene	61	BH244	*	***	-
Phenanthrene	29.6	WS104	*	***	-
Anthracene	9.36	WS104	*	10,000 ⁽²⁾	-
Fluoranthene	26	WS104	*	1.0 ⁽²⁾	<u>BH105 (1.8), BH237 (10.1), BH244 (19.7), WS104 (26)</u>
Pyrene	17.9	WS104	*	***	-
Benzo(a)anthracene	4.63	BH237	*	***	-
Chrysene	3.83	BH237	*	***	-
Benzo(b)fluoranthene	4.87	BH237	*	0.5 ⁽²⁾	<u>TP2 (0.603), WS104 (3.44), BH237 (4.87)</u>
Benzo(k)fluoranthene	1.95	BH237	*	0.05 ⁽²⁾	<u>BH237 (1.95), BH244 (0.255), TP2 (0.395), WS104 (1.86)</u>
Benzo(a)pyrene	3.97	BH237	*	0.0075 ⁽¹⁾	<u>TP2 (0.548), WS102 (0.0401), WS104 (2.52)BH101 (0.0168), BH104 (0.0022), BH105 (0.0619), BH111a (0.0126), BH113 (0.0169), BH206 (0.0262), BH214 (0.0125), BH231 (0.0104), BH237 (3.97), BH243 (0.0642), BH244 (0.301), BH249 (0.00833)</u>
Indeno(123cd)pyrene	1.84	BH237	*	**0.05 ⁽²⁾	<u>BH105 (0.0621), BH237 (1.84), BH244 (0.184), WS104 (1.38)</u>
Dibenzo(ah)anthracene	0.745	WS104	*	***	-
Benzo(ghi)perylene	2.4	BH237	*	**0.05 ⁽²⁾	<u>BH237 (2.4), BH244 (0.185), WS104 (1.63)</u>

Where values are in bold they have exceeded the GAC for Human Health

Where values are underlined the have exceeded the GAC for Environmental Waters

(1) S.I. 366 European Union Environmental Objectives (Groundwater) (Amendment) Regulations 2016 ⁽⁵⁾

(2) EPA Interim Report Towards Setting Guideline values for the Protection of Groundwater in Ireland 2003 ⁽⁶⁾

* GAC not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data

** GAC is set below the LMDL. Where the analysis indicates concentrations below the LMDL a non-exceedance of the criteria will be inferred.

*** No GAC available in legislation or guidance.

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Table 5-9: Dissolved Metals Groundwater Analytical Results

Contaminant of Concern	Max. Reported Concentration (µg/L)	Location	GAC Human Health (µg/L)	GAC Protection of Water Environment (µg/L)	GAC Exceedances (µg/L)
Arsenic	495	BH249	-	7.5 ⁽¹⁾	<u>BH101 (93.5), BH104 (13.5), BH105 (15.5), BH206 (23), BH214 (15.5), BH218 (22.5), BH225 (44.2), BH229 (7.54), BH231 (23.9), BH243 (13.4), BH244 (19.9), BH249 (495), TP2 (87.5), WS104 (25.7)</u>
Cadmium	0.675	BH103	-	***	-
Chromium VI	<30	All	-	7.5 ⁽¹⁾	-
Copper	8.65	BH111A	-	30 ⁽²⁾	-
Lead	4.08	TP2	-	7.5 ⁽¹⁾	-
Mercury	<0.01	All	57,610	0.75 ⁽¹⁾	-
Nickel	31.1	TP2	-	20 ⁽²⁾	<u>TP2 (31.1)</u>
Selenium	2.22	BH102	-	***	-
Zinc	146	BH110A	-	75 ⁽¹⁾	<u>BH110a (146)</u>

Where values are in **bold** they have exceeded the GAC for Human Health

Where values are underlined the have exceeded the GAC for Environmental Waters

(1) S.I. 366 European Union Environmental Objectives (Groundwater) (Amendment) Regulations 2016

(2) EPA Interim Report Towards Setting Guideline values for the Protection of Groundwater in Ireland 2003

* GAC is set below the LMDL of 0.007mg/l. Where the analysis indicates concentrations below the LMDL a non-exceedance of the criteria will be inferred.

** GAC is set below the LMDL of 0.011mg/l. Where the analysis indicates concentrations below the LMDL a non-exceedance of the criteria will be inferred.

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Table 5-10: VOCs, Ammoniacal Nitrogen, Sulphide and Cyanide Groundwater Analytical Results

Contaminant of Concern	Max. Reported Conc. (ug/L)	Location	GAC Human Health (ug/L)	GAC Protection of Water Environment (ug/L)	GAC Exceedances (ug/L)
Trichloroethene	<1	All	190	7.5 ⁽¹⁾	-
Tetrachloroethene	<1	All	1,200	7.5 ⁽¹⁾	-
1, 1, 1 Trichloroethane	<1	All	105,540	500 ⁽²⁾	-
1, 1, 1, 2 Tetrachloroethane	<1	All	8,040	***	-
1, 1, 2, 2 Tetrachloroethane	<1	All	45,290	***	-
Carbon Tetrachloride	<1	All	180	***	-
1, 2 Dichloroethane	<1	All	260	***	-
Vinyl Chloride	5.24	BH244	18	0.375 ^{(1)**}	<u>BH243 (1.23), BH244 (5.24)</u>
1, 2, 4 Trimethylbenzene	119	TP2	14,720	***	-
Phenol	69,400	TP2	*	0.5 ^{(2)**}	<u>BH105 (30), BH109a (100), BH111A (10), BH244 (20), TP2 (69,400), WS104 (70)</u>
Ammoniacal Nitrogen as N****	58,308	BH225	*	65.0 ⁽¹⁾	<u>BH101 (2258), BH102 (584), BH103 (325), BH104 (2864), BH105 (3483), BH107 (779), BH108 (7405), BH109 (4167), BH110 (258), BH206 (3947), BH213 (1065), BH214 (71853), BH217 (7018), BH218 (44505), BH225 (58308), BH229 (27606), BH231 (20640), BH237 (62307), BH243 (5199), BH244 (3690), BH249 (2580), BH108A (1342), BH109A (9443), BH110A (258), BH111A (1651), TP2 (8901), WS102 (7637), WS104 (5882), WS112 (19350), WS113 (4502), WS114 (2232)</u>
Sulphide	2,990	BH244	*	***	-
Cyanide	<50	All	*	37.5 ^{**}	-

Where values are in **bold** they have exceeded the GAC for Human Health

Where values are underlined they have exceeded the GAC for Environmental Waters

(1) S.I. 366 European Union Environmental Objectives (Groundwater) (Amendment) Regulations 2016

(2) EPA Interim Report Towards Setting Guideline values for the Protection of Groundwater in Ireland 2003 ⁽⁶⁾

* GAC not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data

** GAC is set below the LMDL. Where the analysis indicates concentrations below the LMDL a non-exceedence of the criteria will be inferred.

*** No GAC available in legislation or guidance

**** Converted to Ammonium for risk assessment purposes (Analytical result x 1.29)

5.3 Surface Water Analytical Results

The results of the laboratory analysis of the three (3) surface water samples taken are presented in Table 5-11 and Table 5-13 inclusive. The samples were taken from sample locations upstream (US), adjacent to (ADJ) and downstream (DS) of the site. The full laboratory reports of the surface water laboratory analysis are included in Appendix D.

Table 5-11: TPH and BTEX Surface Water Analytical Results

Location	US (mg/L)	ADJ (mg/L)	DS (mg/L)	GAC – Protection of Controlled Waters (Transitional) (mg/L)
TPH	<0.01	<0.01	<0.01	0.01 ⁽²⁾
Benzene	<0.007	<0.007	<0.007	0.008 ⁽¹⁾
Toluene	<0.004	<0.004	<0.004	0.074 ⁽¹⁾
Ethylbenzene	<0.005	<0.005	<0.005	0.01 ⁽²⁾
Xylene	<0.011	<0.011	<0.011	0.01 ⁽²⁾

Where values are in **bold** they have exceeded the GAC for Human Health
Where values are underlined the have exceeded the GAC for Environmental Waters
(1) The Water Framework Directive (Standards and Classification) Directions 2015
(2) EQS from EPA Interim Report Towards Setting Guideline values for the Protection of Groundwater in Ireland 2003
* No GAC available in legislation or guidance
** GAC is set below the LMDL. Where the analysis indicates concentrations below the LMDL a non-exceedence of the criteria will be inferred

Table 5-12: Dissolved Metals Surface Water Analytical Results

Location	US (mg/L)	ADJ (mg/L)	DS (mg/L)	GAC – Protection of Controlled Waters (Transitional) (mg/L)
Chromium VI	<0.03	<0.03	<0.03	0.0006 ^{(1)**}
Arsenic	<0.003	<0.003	<0.003	0.025 ⁽¹⁾
Cadmium	<0.00048	<0.00048	<0.00048	<0.0002 ^{(1)**}
Copper	<0.0018	<0.0018	<0.0018	0.00376 ⁽¹⁾
Lead	<0.0012	<0.0012	<0.0012	0.0013 ⁽¹⁾
Mercury	<0.00001	<0.00001	<0.00001	0.00007 ⁽¹⁾
Nickel	<0.0024	<0.0024	<0.0024	0.0086 ⁽¹⁾
Selenium	<0.006	<0.006	<0.006	**
Zinc	<0.006	<0.006	0.0081	0.0068 ⁽¹⁾

Where values are in **bold** they have exceeded the GAC for Human Health
Where values are underlined the have exceeded the GAC for Environmental Waters
(1) The Water Framework Directive (Standards and Classification) Directions 2015
* No GAC available in legislation or guidance
** GAC is set below the LMDL. Where the analysis indicates concentrations below the LMDL a non-exceedence of the criteria will be inferred

Table 5-13: PAH, Vinyl Chloride, Phenol and Ammoniacal Nitrogen Surface Water Analytical Results

Location	ADJ (ug/L)	DS (ug/L)	US(ug/L)	GAC – Protection of Controlled Waters (Transitional Waters) (ug/L)
Naphthalene	0.0132	0.0139	<0.01	2.0 ⁽¹⁾
Acenaphthylene	<0.005	<0.005	<0.005	5.8 ⁽¹⁾
Acenaphthene	<0.005	<0.005	<0.005	**
Fluorene	<0.005	<0.005	<0.005	**
Phenanthrene	0.00551	0.00566	<0.005	**
Anthracene	<0.005	<0.005	<0.005	0.1 ⁽¹⁾
Fluoranthene	<0.005	0.00548	<0.005	0.0063 ⁽¹⁾
Pyrene	0.00539	0.00599	<0.005	**
Benzo(a)anthracene	<0.005	<0.005	<0.005	**
Chrysene	<0.005	<0.005	<0.005	**
Benzo(b)fluoranthene	<0.005	<0.005	<0.005	**
Benzo(k)fluoranthene	<0.005	<0.005	<0.005	**
Benzo(a)pyrene	<0.002	0.00247	<0.002	0.00017 ⁽¹⁾
Indeno(123cd)pyrene	<0.005	<0.005	<0.005	**
Dibenzo(ah)anthracene	<0.005	<0.005	<0.005	**
Benzo(ghi)perylene	<0.005	<0.005	<0.005	**
Vinyl Chloride	<0.005	<0.005	<0.005	*
Phenol	<0.000002	<0.000002	<0.000002	7.7 ⁽¹⁾
Ammoniacal Nitrogen	<0.0002	<0.0002	<0.0002	21 ⁽¹⁾

Where values are in **bold** they have exceeded the GAC for Human Health
 Where values are underlined the have exceeded the GAC for Environmental Waters
 (1) The Water Framework Directive (Standards and Classification) Directions 2015
 * No GAC available in legislation or guidance
 ** GAC is set below the LMDL. Where the analysis indicates concentrations below the LMDL a non-exceedence of the criteria will be inferred

6 GENERIC QUANTITATIVE RISK ASSESSMENT

6.1 Human Health

6.1.1 Soil

The soil results have been compared to generic assessment criteria (GAC) derived by RSK for a residential without home-grown produce use. We have adopted this approach to provide conservative assessment of the likely mixed use commercial and residential development.

Soils have been assessed using a GAC for soils with SOM content of 2.5% which reflects the calculated SOM results recorded during this investigation. The screening values for human health and their derivation are included in Appendix E.

Concentrations were reported in soil samples at levels which exceeded the GAC for residential without home-grown produce as follows:

- **Aliphatic EC8-EC10** – BH223 (3.0-4.0 mbgl), BH246 (2.0-3.0 mbgl)
- **Aliphatic EC10-EC12** – BH204 (1.0-2.0 mbgl), BH232 (0.5-1.0 mbgl), BH245 (4.0-5.0 mbgl)
- **Aromatic EC12-EC16** – BH245 (3.0-4.0 mbgl), BH245 (4.0-5.0 mbgl)
- **Aromatic EC16-EC21** – BH232 (0.5-1.0 mbgl), BH245 (3.0-4.0 mbgl), BH245 (4.0-5.0 mbgl)
- **Naphthalene** – BH232 (0.5-1.0 mbgl), BH245 (3.0-4.0 mbgl), BH245 (4.0-5.0 mbgl), BH246 (3.0-4.0 mbgl)
- **Benzo(a)anthracene** – BH229 (0.0-0.5 mbgl), BH232 (0.0-0.5 mbgl), BH232 (0.5-1.0 mbgl), BH245 (3.0-4.0 mbgl)
- **Benzo(b)fluoranthene** – BH202 (0.5-1.0 mbgl), BH208 (0.0-0.5 mbgl), BH229 (0.0-0.5 mbgl), BH231 (0.0-0.5 mbgl), BH232 (0.0-0.5 mbgl), BH232 (0.5-1.0 mbgl), BH232 (1.0-2.0 mbgl), BH243 (0.0-0.5 mbgl), BH243 (0.5-1.0 mbgl), BH245 (3.0-4.0 mbgl), BH245 (4.0-5.0 mbgl), BH246 (3.0-4.0 mbgl)
- **Benzo(a)pyrene** - BH208 (0.0-0.5 mbgl), BH229 (0.0-0.5 mbgl), BH232 (0.0-0.5 mbgl), BH232 (0.5-1.0 mbgl), BH243 (0.0-0.5 mbgl), BH243 (0.5-1.0 mbgl), BH246 (3.0-4.0 mbgl)
- **Dibenzo(ah)anthracene** - BH202 (0.5-1.0 mbgl), BH208 (0.0-0.5 mbgl), BH219 (0.5-1.0 mbgl), BH226 (0.0-0.5 mbgl), BH213 (0.5-1.0 mbgl), BH229 (0.0-0.5 mbgl), BH232 (0.0-0.5 mbgl), BH232 (0.5-1.0 mbgl), BH232 (1.0-2.0 mbgl), BH232 (2.0-3.0 mbgl), BH243 (0.0-0.5 mbgl), BH243 (0.5-1.0 mbgl), BH245 (3.0-4.0 mbgl), BH245 (4.0-5.0 mbgl), BH246 (2.0-3.0 mbgl), BH246 (3.0-4.0 mbgl)

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- **Arsenic** - BH219 (0.0-0.5 mbgl), BH219 (0.5-1.0 mbgl), BH235 (8.0-9.0 mbgl), BH237 (0.0-0.5 mbgl), BH237 (0.5-1.0 mbgl), BH249 (6.0-7.0 mbgl)
- **Lead** - BH216 (0.5-1.0 mbgl), BH224 (1.0-2.0 mbgl), BH226 (0.0-0.5 mbgl), BH231 (0.0-0.5 mbgl), BH235 (0.0-0.5 mbgl), BH237 (0.0-0.5 mbgl), BH237 (0.5-1.0 mbgl), BH243 (0.0-0.5 mbgl), BH244 (0.0-0.5 mbgl), BH250 (0.5-1.0 mbgl)
- **Asbestos** - BH212 (0.0-1.0 mbgl), BH219 (0.0-0.5 mbgl), BH219 (0.5-1.0 mbgl), BH249 (0.0-0.5 mbgl)

All other results were reported at concentrations which did not exceed the GACs for the protection of human health.

6.1.2 Groundwater

The groundwater results have been compared to Generic Assessment Criteria (GAC) derived by RSK conservatively assuming a residential end use. The GACs for a sandy loam and a depth to groundwater of 5.00mbgl, most reflective of site conditions, have been used. The screening values for human health and their derivation are included in Appendix F.

Concentrations were reported in groundwater samples at levels which exceeded the GAC for residential use as follows:

- **Aliphatic EC8-EC10** – TP2;
- **Aliphatic EC10-EC12** – TP2, WS102, WS104, BH105 and BH244;
- **Aliphatic EC12-EC16** – TP2, WS102, WS104, BH101 and BH244;

As noted above, aliphatic hydrocarbon bands C₈-C₁₆ are present in groundwater in concentrations that exceed the GAC for human health with residential use. However, the respective GAC values exceed the theoretical solubility limit used by the RBCA model, which was used in the generation of groundwater screening values, presented in Appendix F. Theoretically these compounds could not dissolve into a solution with high enough concentrations to pose a risk to human health. As LNAPL was not identified in any of the monitoring wells installed at the site it is considered that the potential pathway is incomplete with respect to these determinants.

6.2 Water Environment

6.2.1 Groundwater

Where available Irish Environmental Quality Standard (EQS) values have been used which have been obtained from Statutory Instrument No. 366 '*European Union Environmental Objectives (Groundwater) (Amendment) Regulations 2016*'. These values have been supplemented by the Irish interim values presented in the EPA report '*Interim Report Towards Setting Guideline Values for the Protection of Groundwater in Ireland*' dated 2003.

Concentrations were reported in monitoring wells at levels which exceeded the GACs for the protection of the water environment as follows:

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- **Total TPH** – BH101, BH105, BH229, BH237, BH244, TP2, WS102, WS104
- **Benzene** –TP2, WS104
- **Toluene** – TP2
- **Ethylbenzene** – TP2, WS104
- **Xylene** – BH105, BH244, TP2, WS104
- **Naphthalene** – BH237, TP2, WS104
- **Fluoranthene** – BH105, BH237, BH244, WS104
- **Benzo(b)fluoranthene** – BH237, TP2, WS104
- **Benzo(k)fluoranthene** – Bh237, BH244, TP2, WS104
- **Benzo(a)pyrene** – BH101, BH104, BH105, BH111a, BH113, BH206, BH214, BH231, BH237, BH243, BH244, BH249, TP2, WS102, WS104
- **Indeno(123cd)pyrene** – BH105, BH237, BH244, WS104
- **Benzo(ghi)perylene** – BH237, BH244, WS104
- **Arsenic** – BH101, BH104, BH105, BH206, BH214, BH218, BH225, BH229, BH231, BH243, BH244, BH249, TP2, WS104
- **Nickel** – TP2
- **Zinc** – BH110a
- **Vinyl Chloride** – BH243, BH244
- **Phenol** – BH105, BH109a, BH111a, BH244, TP2, WS104
- **Ammoniacal Nitrogen** – BH101, BH102, BH103, BH104, BH105, BH107, BH108, BH108a, BH109, BH109a, BH110, BH110a, BH111a, BH206, BH213, BH214, BH217, BH218, BH225, BH229, BH231, BH237, BH243, BH244, BH249, TP2, WS102, WS104, WS112, WS113, WS114

All other results were reported at concentrations which did not exceed the GACs for the protection of the water environment.

6.2.2 Surface Water

The surface water results have been compared to Generic Assessment Criteria (GAC) derived by RSK for the protection of a controlled freshwater environment with reference to the Water Framework Directive (standards and classification) directions 2015. The screening values and their

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derivation are included in Appendix G. These values have been supplemented by EQS presented in the EPA report '*Interim Report Towards Setting Guideline Values for the Protection of Groundwater in Ireland*' dated 2003.

Laboratory analysis reported all contaminants at concentrations below the laboratory detection limit or below the adopted GAC.

6.3 Summary of Pollutant Linkages

Table 6-1 records the potential pollutant linkages that have been identified at the site. Justifications for the identification of a potential pollutant linkage together with the likelihood are also discussed.

Table 6-1: Summary of Pollutant Linkages

Asbestos, Metals, PAH, BTEX, MTBE and TPH in soil	Direct Contact	Future residents and Users	Incomplete. Soils on-site will be excavated to a depth of approximately 16mbgl and removed off-site as part of enabling works for disposal at appropriate licensed facilities or as soil and stone by-product for reuse under article 27 of the EC (waste directive) regs 2011. This will result in the removal of all contaminated soils on-site. Clean and certified fill material will be imported to site to achieve finished levels where necessary. The majority of the site will be within building footprints or covered hard standing.
		Off-site workers and residents	
		Maintenance Workers	
	Leaching	Groundwater	Incomplete. Soils on-site will be excavated to a depth of approximately 16mbgl and removed off-site as part of enabling works for disposal at appropriate licensed facilities or as soil and stone by-product for reuse under article 27 of the EC (waste directive) regs 2011. This will result in the removal of all contaminated soils on-site. Clean and certified fill material will be imported to site to achieve finished levels where necessary. The majority of the site will be within building footprints or covered hard standing.
	Vapour migration along fill, services and permeable strata	Future site residents and users	Incomplete. Soils on-site will be excavated to a depth of approximately 16mbgl and removed off-site as part of enabling works for disposal at appropriate licensed facilities or as soil and stone by-product for reuse under article 27 of the EC (waste directive) regs 2011. This will result in the removal of all contaminated soils on-site. Clean and certified fill material will be imported to site to achieve finished levels where necessary. The majority of the site will be within building footprints or covered hard standing.
		Off-site workers and residents	
Maintenance Workers			
Metals, PAH, BTEX, MTBE, Vinyl Chloride, Phenol, Ammoniacal Nitrogen and TPH in groundwater and surface water	Direct contact and ingestion	Future residents /users	Incomplete. The GACs protective of Human Health have been exceeded with regards to Aliphatic C8-C16, however, as outlined in section 6.1.2 these exceedences do not represent a risk to human health. LNAPL and/or DNAPL has not been identified on-site in measurable thicknesses during the investigation.
		Off-site workers and residents	
		Maintenance workers	
	Migration	Locally Important Aquifer	Incomplete. TPH, BTEX, Metals, PAH's, Vinyl Chloride, Phenol and Ammoniacal Nitrogen have exceeded the GAC's for environmental waters on site. However, the Dublin Boulder clay encountered at depth is considered to be an aquitard and therefore downward migration of contaminants is considered unlikely.
		River Liffey to the South of the site.	Incomplete. TPH, BTEX, Metals, PAH's, Vinyl Chloride, Phenol and Ammoniacal Nitrogen have exceeded the GAC's for environmental waters on site. However, surface water samples have been taken from the Liffey up and down stream of the site and adjacent to the site and no surface transitional waters GAC's have been exceeded. Therefore, the linkage is considered incomplete.
	Vapour migration along fill, services and permeable strata	Future residents /users	Incomplete. The GACs protective of Human health have not been exceeded. LNAPL and/or DNAPL has not been identified on-site in measurable thicknesses as part of this investigation.
Off-site workers and residents			
Maintenance/ Workers			

Based upon the above information pollution no complete pollutant linkages have been identified at the site with regards to the proposed future site use.

8 CONCLUSIONS

Following the completion of the environmental site assessment works and receipt of laboratory analytical results, a GQRA was completed to assess risks to human health and the water environment at the site.

The soil GACs for protection of human health with regards to a residential without home grown produce land use scenario were exceeded in soil samples analysed from sample locations as detailed in Tables 5.3 to 5.6 and summarised as follows;

- BH202 with regards to PAH compounds (benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene);
- BH204 with regards to aliphatic hydrocarbon bands EC10-EC12;
- BH208 with regards to PAH compounds (benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene);
- BH213 with regards to dibenzo(ah)anthracene;
- BH219 with regards to dibenzo(ah)anthracene) and arsenic.
- BH223 with regards to aliphatic hydrocarbon bands EC8-EC10;
- BH226 with regards to dibenzo(ah)anthracene and lead;
- BH229 with regards to PAH compounds (benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene);
- BH231 with regards to benzo(b)fluoranthene and Lead;
- BH232 with regards to aliphatic hydrocarbon bands EC10-EC12, aromatic hydrocarbon bands EC16-EC21, PAH compounds (naphthalene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene);
- BH235 with regards to arsenic and lead;
- BH237 with regards to arsenic and lead;
- BH243 with regards to PAH compounds (benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene) and lead;
- BH244 with regards to lead;
- BH245 with regards to aliphatic hydrocarbon bands EC10-EC12, aromatic hydrocarbon bands EC16-EC21, PAH compounds (naphthalene, benzo(a)anthracene, benzo(b)fluoranthene and dibenzo(ah)anthracene);

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- BH246 with regards to aliphatic hydrocarbon bands EC8-EC10, PAH compounds (naphthalene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(ah)anthracene);
- BH249 with regards to arsenic; and
- BH250 with regards to lead.

In addition, asbestos fibres (chrysotile) were identified in concentrations greater than 0.001%, indicating a potential risk to human health at the following locations and depths;

- BH212 0.0-1.0mbgl
- BH219 0.0-1.0mbgl; and
- BH249 0.0-0.5mbgl

However, RSK considers that there is no risk to Human Health of future site users from the exceedences noted above as soils on-site will be excavated to a depth of approximately 16mbgl and removed off-site as part of enabling works. This will result in the removal of all contaminated soils on-site.

The groundwater GACs for protection of human health with regards to a residential land use scenario were exceeded in groundwater samples analysed from sample locations as detailed in Tables 5.7 to 5.10 and summarised as follows;

- BH101 with regards to aliphatic hydrocarbon bands EC12-EC16;
- BH105 with regards to aliphatic hydrocarbon bands EC10-EC12;
- TP2 with regards to aliphatic hydrocarbon bands EC8-EC16;
- WS102 with regards to aliphatic hydrocarbon bands EC10-EC16; and
- WS104 with regards to aliphatic hydrocarbon bands EC10-EC16.

As outlined in section 6.1.2 these exceedences are not considered to represent a risk to human health. Therefore, no complete pollutant linkages with regards to risks to Human Health in a residential scenario have been identified at the site.

As noted in section 6.2.1, the groundwater GACs for the protection of environmental waters were exceeded in a number of boreholes on-site. Three surface water samples were retrieved from the River Liffey to assess receptor surface waters upstream, downstream and adjacent to the site. The surface water GACs for the protection of controlled freshwaters were not exceeded in any of the three samples taken along the River Liffey.

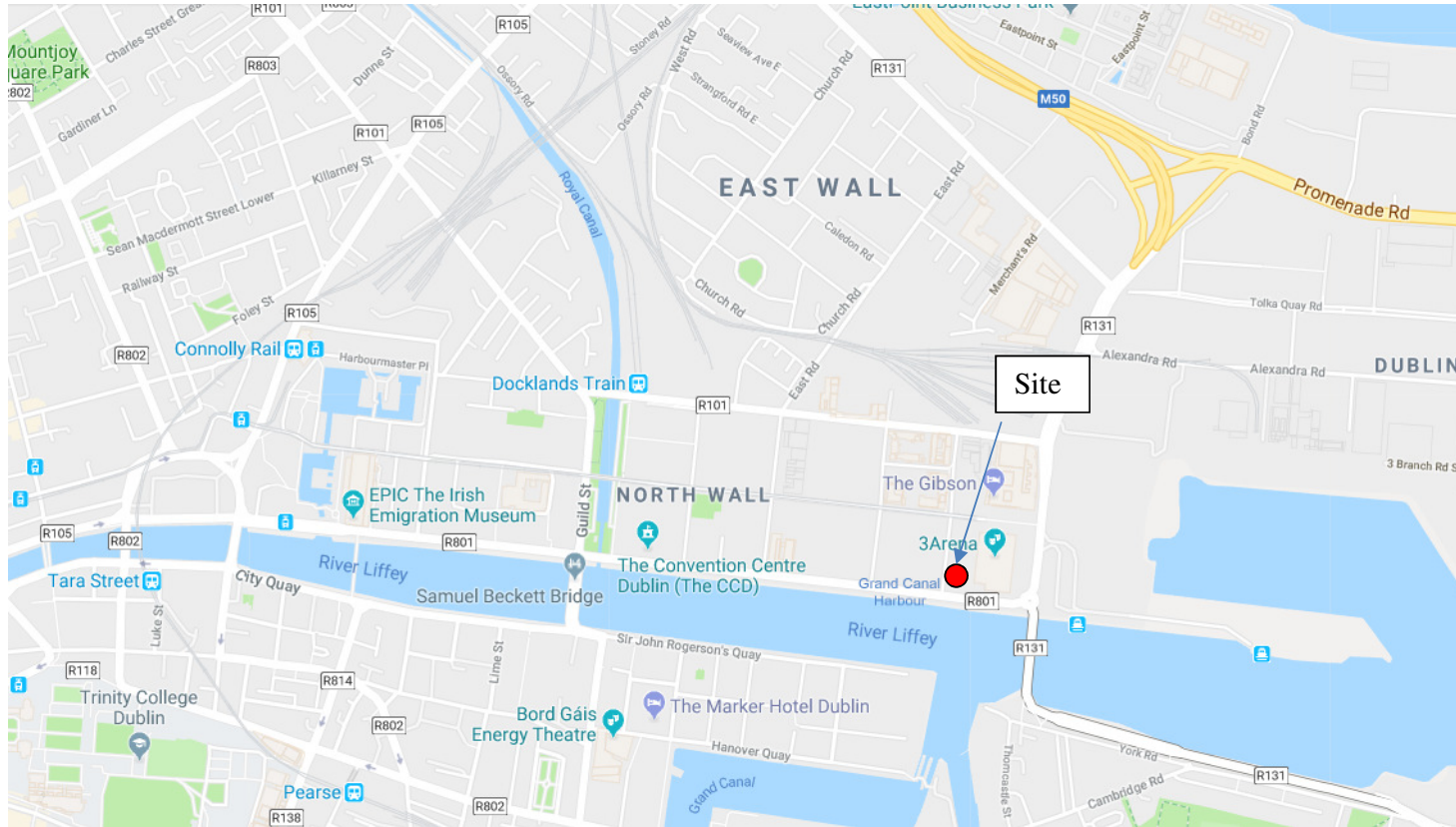
Given the results of surface water monitoring, no complete pollutant linkage has been identified between shallow groundwater contaminant concentrations on-site and the River Liffey. In addition, the boulder clay encountered at depth on-site is considered an aquitard to any downward movement of dissolved contaminants to the locally important aquifer below.

9 RECOMMENDATIONS

Based on the results and conclusions of the GQRA, RSK have proposed the following recommendations;

- As the site is to be excavated to a depth of approximately 16mbgl RSK does not consider it necessary to undertake any remediation measures with regards to impacted soils identified during the enabling works excavations as all soils are to be removed from site. Accordingly, RSK recommends that excavated waste soils are disposed of to an appropriately licensed landfill as per the Environmental Assessment and Soil Classification report⁽²⁾.
- Any impacted groundwater, encountered during enabling works, be pumped from the excavations and undergo treatment on-site which would enable pumped groundwaters to be disposed to sewer under discharge licence. A discharge license will have to be attained from Dublin City Council to pump to the sewer. Treated water will require continual monitoring to check that water quality standards are in compliance with the requirements of the discharge license.
- During enabling works, potential risks to construction workers should be mitigated through the implementation of measures by the contractor and their sub-contractor in accordance with construction health and safety legislation.
- An asbestos management plan should be put in place to manage the risks to construction workers from asbestos identified in soils on the site.
- During construction works where there is excavation and movement of soils, it is recommended that works be undertaken by appropriately trained contractors so that risks associated with the presence of asbestos in the soils on site are managed correctly.
- Surface water samples should be recovered from the Liffey upstream, adjacent to, and downstream of the site at regular intervals during the development works to monitor conditions for the potential of impacted groundwater discharging from the site to impact the quality of the River Liffey.

FIGURES



Job Number: 602387

Job Title: Project Waterfront, Dublin 1

Drawing Title: Figure 1 – Site Location Plan (copyright of Google)

Date: July 2018



- LEGEND:**
- Site boundary
 - Borehole location - Arup
 - Monitoring well location - Arup
 - Borehole location - RSK



REV	DATE	DESCRIPTION	BY	CHD.	APR.
C	28.02.19	SITE BOUNDARY CHANGED	HD	JS	JS
B	19.02.19	BOREHOLES ADDED	HD	JS	JS
A	27.11.18	FIRST ISSUE	HD	JS	JS

Dimensions	Projection	Scale	Orig. Size
m		1:1,000	A3



Bluebell Business Centre
 Old Naas Road
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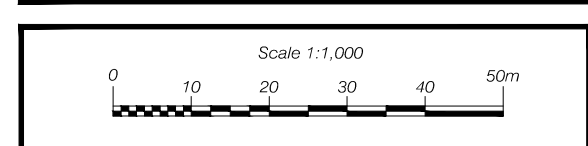
CLIENT

PROJECT
WATERFRONT

TITLE
SITE PLAN

JOB No.: **602387** DRAWING FILE:

BY:	DATE:	CONTRACT NO.	REV:
HD	27.11.18		C



APPENDIX A

Service Constraints

RSK IRELAND LIMITED SERVICE CONSTRAINTS

1. This report and the Environmental Site Assessment carried out in connection with the report (together the "Services") were compiled and carried out by RSK Ireland Ltd (RSK) for Waterside Block 9 Developments Limited (the "client") in accordance with the terms of a contract between RSK and the "client" dated November 2018. The Services were performed by RSK with the skill and care ordinarily exercised by a reasonable Environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the client.
2. Other than that expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed in writing the Services were performed by RSK exclusively for the purposes of the client. RSK is not aware of any interest of or reliance by any party other than the client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials.
7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a walk-over survey of the site together with RSK's interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The Services are also based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely. The Services clearly are limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the walk-over survey. Further RSK was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services. RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the client and RSK.
8. The intrusive environmental site investigation aspects of the Services is a limited sampling of the site at pre-determined borehole and soil vapour locations based on the operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and RSK] [based on an understanding of the available operational and historical information], and it should not be inferred that other chemical species are not present.
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan, but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (boreholes, trial pits etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.



APPENDIX B

Borehole Logs

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH201	
Drilling Method: Commachio			Date: 11/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab		
				No visual / olfactory evidence	0.2	MADE GROUND – Brown, clayey, sandy, medium to coarse, angular GRAVEL (fill)		
0.0-1.0	ES	0		No visual / olfactory evidence	0.3	MADE GROUND – Light brown, slightly sandy, gravelly (medium to coarse, angular to sub-angular) CLAY		
1.0-2.0	ES ES	0 0		No visual / olfactory evidence	1.0	MADE GROUND – Blackish grey, slightly sandy SILT with some old brick fragments. Becomes natural ground ~ 2.0 mbgl		
3.0-4.0 4.0-5.0	ES ES	0 0		No visual / olfactory evidence	3.0	MADE GROUND - Black, slightly gravelly (fine & rounded-sub-rounded), SILT (reworked)		
5.0-6.0 6.0-7.0	ES ES	0 0	6.5	No visual / olfactory evidence	5.3	NATURAL GROUND – Greyish black, slightly sandy, slightly silty, clayey, fine to medium, sub-rounded to sub-angular GRAVELS		
7.0-8.0 8.0-9.0	ES ES ES ES	0 0 0 0		No visual / olfactory evidence	7.0	NATURAL GROUND – Light grey, slightly sandy, silty GRAVELS		
				No visual / olfactory evidence	11.5	NATURAL GROUND – Greyish brown, gravelly, slightly silty, sandy (fine) GRAVEL		
13.0-14.0 14.0-15.0 15.0-16.0 17.0-18.0	ES ES ES ES	0 0 0 0		No visual / olfactory evidence	13.0	NATURAL GROUND – Greyish black, slightly gravelly (medium to coarse, angular to sub-angular) CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.5 mbgl						Borehole terminated at 17.0 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH202	
Drilling Method: Commachio			Date: 11/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
0.0-0.5	ES	0.1		No visual / olfactory evidence		0.0	MADE GROUND –Concrete slab	
				No visual / olfactory evidence		0.3	MADE GROUND – Brownish black, slightly sandy, gravelly CLAY	
0.5-1.0	ES	0		No visual / olfactory evidence		0.5	MADE GROUND – Grey, fine SAND (fill)	
2.0-3.0	ES ES	0 0		No visual / olfactory evidence		1.5	MADE GROUND - Black, slightly gravelly, SILT (reworked)	
3.0-4.0 5.0-5.5	ES ES	0 0		No visual / olfactory evidence		3.5	MADE GROUND - Black, slightly gravelly, SILT (reworked)	
7.0-8.0	ES	0	6.0	No visual / olfactory evidence		5.5	NATURAL GROUND - Blackish grey, slightly silty, clayey, medium to coarse, angular to sub-angular GRAVELS	
8.0-9.0	ES	0		No visual / olfactory evidence		8.0	NATURAL GROUND - Grey, angular to sub-angular, coarse GRAVELS	
11.5-13.0	ES ES	0 0		No visual / olfactory evidence		11.5	NATURAL GROUND - Brownish grey, slightly gravelly (fine) SANDS	
13.0-14.0 14.0-15.0 15.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence		13.0	NATURAL GROUND - Greyish black, gravelly (medium to coarse, angular to sub-angular) CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 6.0 mbgl							Borehole terminated at 17.0 mbgl	

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH203	
Drilling Method: Commachio			Date: 13/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
	ES	0		No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab		
0.0-1.0	ES	0		No visual / olfactory evidence	0.3	MADE GROUND – Grey, sandy, gravelly (angular to sub-angular, medium to coarse), CLAY		
				No visual / olfactory evidence	1.0	MADE GROUND – Brown, slightly gravelly, clayey SAND		
				No visual / olfactory evidence	1.2	MADE GROUND - Grey, slightly sandy, silty CLAY (reworked)		
1.0-2.0 2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES ES	0 0 0 0		No visual / olfactory evidence	1.5	MADE GROUND - Greyish black SILT (reworked)		
				No visual / olfactory evidence	5.2	NATURAL GROUND - Light grey, slightly silty, slightly sandy, medium to coarse, angular to sub-angular GRAVELS		
5.0-6.0 6.0-7.0 7.0-8.0	ES ES ES	0 0 0	6.5	No visual / olfactory evidence	6.0	NATURAL GROUND - Light grey, slightly silty, slightly sandy, medium to coarse, rounded to sub-rounded GRAVELS		
10.0-12.0 13.0-14.0	ES ES	0 0		No visual / olfactory evidence	10.0	NATURAL GROUND - Light grey, slightly silty, slightly sandy, fine, rounded to sub-rounded GRAVELS		
14.0-15.0 15.0-16.0	ES ES	0 0		No visual / olfactory evidence	13.5	NATURAL GROUND - Greyish black, silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.5 mbgl						Borehole terminated at 16.0 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH204	
Drilling Method: Commachio			Date: 12/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND –Concrete slab	
0.0-0.5	ES	1.0		No visual / olfactory evidence		0.3	MADE GROUND – Grey, sandy, gravelly (angular to sub-angular, medium to coarse), CLAY	
1.0-2.0	ES	3.6		No visual / olfactory evidence		1.0	MADE GROUND – Grey, gravelly (medium to coarse, angular to sub-angular), clayey SAND	
2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES	0.4 0 0		No visual / olfactory evidence		2.0	MADE GROUND – Greyish black, slightly gravelly (fine, angular to sub-angular), SILT (reworked)	
5.8-7.0	ES	0	6.5	No visual / olfactory evidence		5.8	NATURAL GROUND - Grey, sandy, medium to coarse, sub-angular to sub-rounded GRAVEL	
				No visual / olfactory evidence		7.0	NATURAL GROUND - Grey, gravelly, angular to sub-angular, coarse SANDS	
8.0-10.0	ES	0		No visual / olfactory evidence		8.0	NATURAL GROUND - Grey, sandy, medium to coarse, sub-angular to sub-rounded GRAVEL	
11.0-12.5	ES	0		No visual / olfactory evidence		11.5	NATURAL GROUND - Brownish grey, gravelly SANDS	
13.0-14.0 14.0-15.0 16.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence		12.5	NATURAL GROUND - Black, slightly gravelly CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 6.5 mbgl						Borehole terminated at 17.0 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH205	
Drilling Method: Commachio			Date: 13/12/2018 – 14/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (pp m)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND –Concrete slab	
0.0-1.0	ES	0.5		No visual / olfactory evidence		0.3	MADE GROUND – Grey, sandy, gravelly (angular to sub-angular, medium to coarse), CLAY	
1.0-1.5	ES	1.0		No visual / olfactory evidence		1.0	MADE GROUND – Grey, gravelly (medium to coarse, angular to sub- angular), clayey SAND	
1.5-2.0 2.0-3.0	ES ES	0.6 0		No visual / olfactory evidence		1.5	MADE GROUND – Greyish black, slightly gravelly (fine, angular to sub- angular) SILT (reworked)	
3.0-4.0 4.0-5.0	ES ES	0 0		No visual / olfactory evidence		3.0	MADE GROUND – Greyish black, slightly gravelly (fine, angular to sub- angular), SILT (reworked)	
5.5-7.0	ES	0	8.0	No visual / olfactory evidence		5.5	NATURAL GROUND – Grey, sandy, rounded to sub-rounded, medium to coarse GRAVELS	
8.0-10.0 10.0-12.0	ES ES	0 0		No visual / olfactory evidence		8.0	NATURAL GROUND - Grey, very sandy GRAVELS	
13.0-14.0 14.0-16.0	ES ES	0 0		No visual / olfactory evidence		12.5	NATURAL GROUND - Greyish black, silty CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 8.0 mbgl							Borehole terminated at 16.0 mbgl	

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH206		
Drilling Method: Commachio			Date: 01/02/2019		Client: Ronan Group Real Estate		Engineer: PF		
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:		
0.5-1.0	ES ES	<0.1 <0.1		No visual / olfactory evidence		0.0	MADE GROUND –Grey, sandy GRAVEL (fill) and wood fragments		
1.0-2.0 2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES ES	<0.1 <0.1 <0.1 <0.1		No visual / olfactory evidence		0.8	MADE GROUND - Dark grey, slightly sandy, SILT (reworked)		
				No visual / olfactory evidence		5.0	MADE GROUND - Dark grey, slightly sandy, gravelly (fine to medium, sub-angular to sub-rounded) SILT (reworked)		
7.0-8.0	ES	<0.1		No visual / olfactory evidence		6.0	NATURAL GROUND - Grey, slightly clayey, fine to medium, sub-angular to sub-rounded GRAVELS		
9.0-10.0	ES	<0.1	8.0	No visual / olfactory evidence		8.0	NATURAL GROUND - Brown-grey, coarse SANDS and fine to medium, angular to sub-angular GRAVELS		
11.0-12.0 13.0-14.0 14.0-15.0 15.0-16.0	ES ES ES ES	<0.1 <0.1 <0.1 <0.1		No visual / olfactory evidence		10.5	NATURAL GROUND - Greyish black, silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 8.0 mbgl							Borehole terminated at 17.0 mbgl. Installed to 10.5 mbgl – 6.0 m plain, 4.5 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH207	
Drilling Method: Commachio			Date: 01/02/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5 0.5-1.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	0.0	MADE GROUND –Sandy GRAVEL (fill)		
1.0-2.0	ES	<0.1		No visual / olfactory evidence	1.0	MADE GROUND –Brown, sandy SILT		
2.0-3.0 4.0-5.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	2.0	MADE GROUND – Dark grey, sandy SILT		
				No visual / olfactory evidence	4.8	MADE GROUND - Dark grey, slightly sandy, gravelly (fine to medium, sub-angular to sub-rounded) SILT (reworked)		
6.0-7.0	ES ES	<0.1 <0.1	7.5	No visual / olfactory evidence	5.5	NATURAL GROUND - Grey, slightly clayey, fine to medium, sub-angular to sub-rounded GRAVELS		
9.0-10.0	ES	<0.1		No visual / olfactory evidence	9.5	NATURAL GROUND - Brown-grey, coarse SANDS and fine to medium, angular to sub-angular GRAVELS		
11.0-12.0 12.0-13.0 13.0-14.0	ES ES ES	<0.1 <0.1 <0.1		No visual / olfactory evidence	11.5	NATURAL GROUND - Greyish black, silty CLAY (BOULDER CLAY)		
15.0-16.0 16.0-17.0	ES ES	<0.1 <0.1	15.5	No visual / olfactory evidence	15.5	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 7.5 mbgl and 15.5 mbgl						Borehole terminated at 17.0 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH208	
Drilling Method: Commachio			Date: 31/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete		
0.0-0.5	ES	0		No visual / olfactory evidence	0.25	MADE GROUND – Dark brown, slightly gravelly, sandy CLAY with wood and concrete fragments		
0.5-1.0	ES	0		No visual / olfactory evidence	0.5	MADE GROUND - Dark grey, slightly sandy SILT (reworked natural)		
1.0-2.0 2.0-3.0	ES ES	0 0		No visual / olfactory evidence	1.4	MADE GROUND - Dark grey sandy SILT (reworked natural)		
3.0-4.0 4.0-5.0	ES ES	0 0		No visual / olfactory evidence	3.1	MADE GROUND - Dark grey, slightly sandy, SILT with white shell fragments (reworked)		
				No visual / olfactory evidence	5.1	MADE GROUND - Dark grey, slightly gravelly, slightly sandy, SILT with white shell fragments (reworked)		
			6.5	No visual / olfactory evidence	6.4	NATURAL GROUND - Grey, fine to medium, sub-angular to sub-rounded limestone GRAVELS		
7.0-8.0	ES	0 0		No visual / olfactory evidence	7.5	NATURAL GROUND - Grey, medium to coarse SANDS and medium to coarse, angular to sub-angular GRAVELS		
10.0-11.0 11.0-12.0	ES ES	0 0		No visual / olfactory evidence	9.0	NATURAL GROUND - Grey-brown, slightly gravelly, coarse SANDS and fine to coarse, angular to sub-angular GRAVELS		
13.0-14.0 14.0-15.0 15.0-16.0	ES ES ES	0 0 0		No visual / olfactory evidence	11.5	NATURAL GROUND - Greyish black, silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.5 mbgl						Borehole terminated at 17.0 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH209	
Drilling Method: Commachio			Date: 31/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
0.0-0.5 0.5-1.0 1.0-2.0	ES ES ES	0 0 0		No visual / olfactory evidence	0.2	MADE GROUND – Brown-grey, gravelly, angular to sub-angular CLAY with red bricks		
2.0-3.0	ES	0		No visual / olfactory evidence	2.0	MADE GROUND - Brown, slightly gravelly SILT (reworked)		
3.0-4.0 5.0-6.0	ES ES	0 0		No visual / olfactory evidence	3.0	MADE GROUND - Black SILT (reworked)		
6.0-7.0	ES	0	6.5	No visual / olfactory evidence	6.0	NATURAL GROUND - Black, silty, angular to sub-angular GRAVELS		
				No visual / olfactory evidence	8.0	NATURAL GROUND - Brown-grey, slightly sandy, slightly silty, medium to coarse, angular to sub-angular GRAVELS		
9.0-10.0 11.0-12.0	ES ES	0.1 0		No visual / olfactory evidence	9.0	NATURAL GROUND - Brown-grey, medium to coarse, angular to sub-angular GRAVELS		
13.0-14.0 14.0-15.0 16.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence	12.0	NATURAL GROUND - Greyish black, silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.5 mbgl						Borehole terminated at 17.0 mbgl Installed to 6 mbgl – 1 m plain, 5 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH210	
Drilling Method: Commachio			Date: 14/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
0.0-1.0	ES	0.3		No visual / olfactory evidence	0.3	MADE GROUND – Grey GRAVELS engineered fill		
1.0-2.0	ES	0		No visual / olfactory evidence	1.0	MADE GROUND – Gravelly, sandy CLAY with red bricks		
2.0-3.0 3.0-4.0	ES ES	0 0		No visual / olfactory evidence	2.0	MADE GROUND – Grey, slightly gravelly, SILT (reworked)		
4.0-5.5	ES	0		No visual / olfactory evidence	4.0	MADE GROUND - Black, slightly gravelly, SILT (reworked)		
8.0-10.0 10.0-11.0	ES ES	0 0	8.0	No visual / olfactory evidence	5.5	NATURAL GROUND – Blackish grey, angular to sub-angular, medium to coarse GRAVELS		
11.0-12.0	ES	0		No visual / olfactory evidence	11.0	NATURAL GROUND – Brownish grey, gravelly, medium to coarse, angular to sub-angular SAND		
12.0-13.0 13.0-15.0 15.0-16.0 16.0-17.0	ES ES ES ES	0 0 0 0		No visual / olfactory evidence	12.0	NATURAL GROUND - Black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 8.0 mbgl						Borehole terminated at 17.0 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH211	
Drilling Method: Commachio			Date: 17/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
				No visual / olfactory evidence	0.2	MADE GROUND – Clayey engineered fill		
0.5-1.0	ES	0		No visual / olfactory evidence	0.5	MADE GROUND – Grey, sandy, gravelly (fine to medium, angular to sub-angular) CLAY		
1.0-2.0 2.0-3.0 3.0-4.0	ES ES ES	0 0 0.1		No visual / olfactory evidence	1.0	MADE GROUND – Grey, slightly gravelly, SILT (reworked)		
4.5-6.0	ES	0		No visual / olfactory evidence	4.5	NATURAL GROUND - Grey, gravelly (medium to coarse, rounded to sub-rounded) SANDS		
8.0-9.0 9.0-10.0 10.5-12.0	ES ES ES	0 0 0	7.0	No visual / olfactory evidence	6.0	NATURAL GROUND – Grey, silty, sandy (coarse), rounded to sub-rounded, coarse GRAVELS		
				No visual / olfactory evidence	10.5	NATURAL GROUND – Brownish grey, gravelly, sub-rounded to rounded, medium to coarse SANDS		
12.0-13.0 13.0-14.0 14.0-15.0	ES ES ES	0 0 0		No visual / olfactory evidence	12.0	NATURAL GROUND – Greyish black, slightly silty CLAY (BOULDER CLAY)		
15.0-16.0	ES	0		No visual / olfactory evidence	15.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)		
				No visual / olfactory evidence	16.0	NATURAL GROUND – Greyish black, sandy CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 7.0 mbgl and 15.5 mbgl						Borehole terminated at 17.0 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH212	
Drilling Method: Commachio			Date: 17/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
0.0-1.0	ES	0		No visual / olfactory evidence		0.0	MADE GROUND – Slightly clayey, sandy (coarse), medium to coarse, angular to sub-angular GRAVELS with red bricks	
1.0-2.0	ES	0.1		No visual / olfactory evidence		1.0	MADE GROUND – Greyish brown, slightly clayey, gravelly (angular to sub-angular, fine), SANDS	
2.0-3.0 3.0-4.0	ES ES	0		No visual / olfactory evidence		2.0	MADE GROUND – Greyish black, slightly gravelly, SILT (reworked)	
4.5-6.0	ES	0		No visual / olfactory evidence		4.5	NATURAL GROUND – Grey, slightly clayey, slightly silty, SAND	
6.0-7.0	ES	0		No visual / olfactory evidence		6.0	NATURAL GROUND – Grey, slightly silty, clayey SAND	
7.0-8.0	ES	0	7.0	No visual / olfactory evidence		7.0	NATURAL GROUND – Greyish black, slightly clayey, sandy sub-rounded to rounded, medium to coarse GRAVELS	
9.0-10.5	ES	0		No visual / olfactory evidence		9.0	NATURAL GROUND – Grey, slightly sandy, angular to sub-angular GRAVELS	
10.5-12.0	ES	0 0 0		No visual / olfactory evidence		10.5	NATURAL GROUND – Grey, sandy, angular to sub-angular, medium to coarse GRAVELS	
12.0-13.0 13.0-14.0	ES ES	0 0		No visual / olfactory evidence		11.5	NATURAL GROUND – Grey, sandy, angular to sub-angular, medium to coarse GRAVELS with bands of clay	
14.0-15.0 15.0-16.0 16.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence		13.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 7.0 mbgl							Borehole terminated at 17.0 mbgl	

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH213	
Drilling Method: Commachio			Date: 18/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES	0.1		No visual / olfactory evidence	0.0	MADE GROUND – Grey, sandy, clayey, GRAVELS with demolition debris, red bricks		
0.5-1.0	ES	0.1		No visual / olfactory evidence	0.5	MADE GROUND – Black-grey, silty, slightly gravelly, CLAY with red brick fragments		
				No visual / olfactory evidence	1.0	MADE GROUND – Greyish black, silty CLAY (reworked)		
1.0-2.0 2.0-3.0 3.0-4.0 4.0-5.0 5.0-6.0	ES ES ES ES ES	0 0 0 0 0		No visual / olfactory evidence	2.0	MADE GROUND – Grey, gravelly (angular to sub-angular, medium to coarse), SILT (reworked)		
			8.0	No visual / olfactory evidence	8.0	NATURAL GROUND – Greyish black, slightly clayey, sandy sub-rounded to rounded, medium to coarse GRAVELS		
9.0-10	ES	0		No visual / olfactory evidence	9.0	NATURAL GROUND – Greyish black, silty angular to sub-angular, medium to coarse GRAVELS		
10.0-12.0	ES	0		No visual / olfactory evidence	10.0	NATURAL GROUND – Greyish brown, gravelly SANDS		
12.5-14.0 15.0-16.0 16.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence	12.5	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 8.0 mbgl						Installed to 13 mbgl – 7 m plain, 6 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH214	
Drilling Method: Commachio			Date: 18/12/2018 – 19/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
0.0-1.0	ES	0.2		No visual / olfactory evidence		0.0	MADE GROUND – Grey, sandy, clayey, GRAVELS with cobbles and demolition debris, red bricks	
1.0-2.0	ES	0.1		No visual / olfactory evidence		0.5	MADE GROUND – Black-grey, silty, slightly gravelly, CLAY with red brick fragments	
2.0-3.0	ES	0.1		No visual / olfactory evidence		2.0	MADE GROUND – Greyish black, SILT (reworked)	
3.0-4.0	ES	0						
4.0-5.0	ES	0						
5.0-6.0	ES	0						
			6.5	No visual / olfactory evidence		6.0	NATURAL GROUND – Greyish black, slightly clayey, sandy sub-rounded to rounded, medium to coarse GRAVELS	
8.0-9.0	ES	0		No visual / olfactory evidence		8.0	NATURAL GROUND - Greyish black, silty angular to sub-angular, medium to coarse GRAVELS	
9.0-11.0	ES	0		No visual / olfactory evidence		9.0	NATURAL GROUND - Greyish brown, gravelly SANDS	
13.0-14.0	ES	0		No visual / olfactory evidence		13.0	NATURAL GROUND – Gravelly, sandy, silty CLAY	
14.0-15.0	ES	0		No visual / olfactory evidence		14.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)	
16.0-17.0	ES	0						
Remarks: Groundwater strike at 6.5 mbgl							Installed to 5 mbgl – 2 m plain, 3 m slotted	

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH215	
Drilling Method: Commachio			Date: 19/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES	0		No visual / olfactory evidence	0.0	MADE GROUND – Grey, sandy, clayey, GRAVELS with cobbles and demolition debris		
0.5-1.0	ES	0.1		No visual / olfactory evidence	0.2	MADE GROUND – Black, slightly sandy, gravelly CLAY		
2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES	0.1 0 0		No visual / olfactory evidence	1.0	MADE GROUND – Black, slightly gravelly, SILT		
				No visual / olfactory evidence	4.0	MADE GROUND – Black SILT (reworked)		
6.0-8.0	ES	0	6.0	No visual / olfactory evidence	6.0	NATURAL GROUND – Black, silty, sub-angular to sub-rounded, coarse GRAVELS		
				No visual / olfactory evidence	9.0	NATURAL GROUND – Grey, speckled brown, sandy, medium to coarse, sub-angular to sub-rounded GRAVELS		
13.0-15.0	ES	0		No visual / olfactory evidence	11.0	NATURAL GROUND – Greyish brown, slightly gravelly, very silty CLAY		
14.0-16.0 16.0-17.0	ES ES	0 0		No visual / olfactory evidence	14.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.0 mbgl						Borehole terminated at 17 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH216	
Drilling Method: Commachio			Date: 19/12/2018 – 20/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
0.0-0.5	ES	0		No visual / olfactory evidence		0.0	MADE GROUND – Grey, sandy, clayey, GRAVELS with cobbles and demolition debris	
0.5-1.0	ES	0.2		No visual / olfactory evidence		0.2	MADE GROUND – Black, slightly sandy, gravelly CLAY	
1.0-2.0 2.0-3.0 4.0-5.0	ES ES ES	0.1 0 0		No visual / olfactory evidence		1.0	MADE GROUND – Black SILT (reworked)	
5.0-6.0	ES	0		No visual / olfactory evidence		5.0	MADE GROUND – Black, slightly gravelly SILT (reworked)	
6.0-8.0	ES	0		No visual / olfactory evidence		6.0	MADE GROUND – Black, gravelly (sub-angular to sub-rounded, coarse) SILT (reworked)	
			8.0	No visual / olfactory evidence		8.0	NATURAL GROUND – Black, silty, sub-angular to sub-rounded, coarse GRAVEL	
9.0-11.0	ES	0		No visual / olfactory evidence		9.0	NATURAL GROUND – Black, slightly silty, sandy, sub-angular to sub-rounded, coarse GRAVEL	
11.0-13.0	ES	0		No visual / olfactory evidence		11.0	NATURAL GROUND – Grey, silty, sandy, sub-angular to sub-rounded, coarse GRAVELS	
13.0-14.0	ES	0		No visual / olfactory evidence		13.0	NATURAL GROUND – Grey, silty, gravelly CLAY	
14.0-15.0 15.0-17.0	ES ES	0 0		No visual / olfactory evidence		14.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 8.0 mbgl						Borehole terminated at 17 mbgl		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH217	
Drilling Method: Commachio			Date: 20/12/2018		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
0.0-0.5	ES	0		No visual / olfactory evidence	0.2	MADE GROUND – Grey, slightly clayey, sandy, angular to sub-angular, coarse GRAVEL (fill)		
0.5-1.0	ES	0		No visual / olfactory evidence	0.5	MADE GROUND – Greyish black, slightly gravelly, silty CLAY with red bricks		
1.0-2.0 2.0-3.0 3.0-4.0	ES ES ES	0 0 0		No visual / olfactory evidence	1.0	MADE GROUND – Black SILT (reworked)		
4.0-5.0	ES	0		No visual / olfactory evidence	4.0	NATURAL GROUND – Black, silty, SAND		
				No visual / olfactory evidence	5.0	NATURAL GROUND – Grey, gravelly SILT		
6.0-8.0	ES	0	6.0	No visual / olfactory evidence	6.0	NATURAL GROUND – Black, silty GRAVELS		
10.0-12.0	ES	0		No visual / olfactory evidence	10.0	NATURAL GROUND – Grey, gravelly SILT		
12.5-14.0 14.0-15.0 15.0-16.0 16.0-17.0	ES ES ES ES	0 0 0 0		No visual / olfactory evidence	12.5	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.0 mbgl						Borehole terminated at 17 mbgl Installed to 6.0 mbgl – 1 m plain, 5 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH218	
Drilling Method: Commachio			Date: 07/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Reinforced concrete slab		
0.0-0.5 0.5-1.0	ES ES	0.3 0.2		No visual / olfactory evidence	0.25	MADE GROUND – Dark grey to black, sandy SILT with soft red brick fragments		
2.0-3.0 3.0-4.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	1.5	MADE GROUND - Dark grey to black, sandy SILT (reworked)		
6.0-7.0	ES	<0.1	6.0	No visual / olfactory evidence	4.6	NATURAL GROUND - Dark grey to black, silty, sub-angular to sub-rounded, medium GRAVELS		
9.0-10.0	ES	<0.1		No visual / olfactory evidence	7.9	NATURAL GROUND - Grey, sub-angular to sub-rounded, medium GRAVELS		
10.0-11.0	ES	0.3		No visual / olfactory evidence	10.5	NATURAL GROUND – Brown, fine to medium SANDS		
12.0-13.0	ES	<0.1		No visual / olfactory evidence	12.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
				No visual / olfactory evidence	12.5	NATURAL GROUND – Gravels		
13.0-14.0 15.0-16.0 16.0-17.0	ES ES ES	<0.1 <0.1 <0.1		No visual / olfactory evidence	13.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.0 mbgl						Borehole terminated at 17 mbgl. Installed to 13.0 mbgl – 5 m plain, 8 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH219	
Drilling Method: Commachio			Date: 08/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Reinforced concrete slab		
0.0-0.5 0.5-1.0	ES ES	0 0		No visual / olfactory evidence	0.25	MADE GROUND – Brown, slightly sandy, gravelly CLAY with red brick fragments		
				No visual / olfactory evidence	1.8	MADE GROUND – Assumed boulder		
3.0-4.0	ES	1.5		No visual / olfactory evidence	3.2	NATURAL GROUND - Dark grey to black, sandy, sub-angular to sub-rounded, medium GRAVELS		
5.0-6.0	ES	0.1		No visual / olfactory evidence	4.0	MADE GROUND – Black, slightly gravelly SILT (reworked)		
6.0-7.0	ES	0.1		No visual / olfactory evidence	6.0	MADE GROUND – Black, slightly gravelly, slightly sandy SILT (reworked)		
7.0-8.0	ES	0.1		No visual / olfactory evidence	7.0	MADE GROUND – Black, slightly sandy, gravelly SILT (reworked)		
8.0-9.0	ES	0.9	8.0	No visual / olfactory evidence	8.0	NATURAL GROUND – Blackish grey, slightly silty, sandy, medium to coarse, sub-angular to sub-rounded GRAVELS		
9.0-10.0	ES	0.1		No visual / olfactory evidence	9.0	NATURAL GROUND -Greyish brown, slightly silty, very sandy, medium to coarse, sub-angular to sub-rounded GRAVELS		
10.5-11.0	ES	0.4		No visual / olfactory evidence	10.5	NATURAL GROUND – Brown, slightly gravelly, fine SANDS		
13.0-14.0 15.0-16.0 16.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence	12.5	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 8.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH220		
Drilling Method: Commachio			Date: 30/01/2019		Client: Ronan Group Real Estate		Engineer: JS		
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:		
				No visual / olfactory evidence		0.0	MADE GROUND – Concrete slab		
0.0-0.5 0.5-1.0 1.0-2.0 2.0-3.0	ES ES ES ES	0.1 0.3 2.1 0		No visual / olfactory evidence		0.2	MADE GROUND – Grey, slightly sandy, angular to sub-angular GRAVELS with red brick and wood fragments		
4.0-5.0 6.0-7.0 7.0-8.0	ES ES ES	0 0 0		No visual / olfactory evidence		3.0	MADE GROUND – Brown-black SILT (reworked)		
9.0-10.0 11.0-12.0	ES ES	0 0	8.0	No visual / olfactory evidence		8.0	NATURAL GROUND – Brownish grey, sandy (coarse), sub-rounded to sub-angular, coarse GRAVELS		
13.0-14.0 14.0-15.0	ES ES	0 0		No visual / olfactory evidence		13	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
			15.0	No visual / olfactory evidence		15.0	NATURAL GROUND – GRAVELS		
16.0-17.0	ES	0		No visual / olfactory evidence		15.2	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 8.0 mbgl and 15.0 mbgl							Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH221	
Drilling Method: Commachio			Date: 30/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES	<0.1		No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
				No visual / olfactory evidence	0.3	MADE GROUND – Grey, slightly sandy, angular to sub-angular GRAVELS with red brick and wood fragments		
1.0-2.0 2.0-3.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	1.0	MADE GROUND – Brown, fine, slightly gravelly SANDS		
3.0-4.0 4.0-5.0 6.0-7.0	ES ES ES	<0.1 <0.1 <0.1		No visual / olfactory evidence	3.0	MADE GROUND – Greyish black SILT (reworked)		
			7.0	No visual / olfactory evidence	7.0	NATURAL GROUND – Grey, silty, sub-rounded to sub-angular, coarse GRAVELS		
8.0-9.0	ES	<0.1		No visual / olfactory evidence	8.0	NATURAL GROUND – Grey, sandy, sub-rounded to sub-angular, coarse GRAVELS		
				No visual / olfactory evidence	10.0	NATURAL GROUND – Brown, fine SANDS		
12.0-13.0 14.0-15.0 15.0-16.0	ES ES ES	<0.1 <0.1 <0.1		No visual / olfactory evidence	11.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
			16.5	No visual / olfactory evidence	16.5	NATURAL GROUND – GRAVELS		
				No visual / olfactory evidence	16.7	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 7.0 mbgl and 16.5 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH222	
Drilling Method: Commachio			Date: 09/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES	0.1		No visual / olfactory evidence	0.0	MADE GROUND – Tarmac		
				No visual / olfactory evidence	0.2	MADE GROUND – Blackish grey, gravelly CLAY with red bricks (fill)		
				No visual / olfactory evidence	1.0	MADE GROUND – Blackish grey, sandy, gravelly CLAY with red bricks (fill)		
1.0-2.0 2.0-3.0	ES ES	0.7 0		No visual / olfactory evidence	2.0	MADE GROUND – Dark grey, slightly gravelly SAND		
4.0-5.0	ES	0		No visual / olfactory evidence	3.0	MADE GROUND – Dark grey SILT (reworked)		
6.0-7.0	ES	0	5.0	No visual / olfactory evidence	5.0	NATURAL GROUND – Black, silty, angular to sub-angular GRAVELS		
7.0-9.0	ES	0	8.0	No visual / olfactory evidence	7.0	NATURAL GROUND – Brownish grey, sandy (coarse), sub-angular to sub-rounded medium to coarse GRAVELS		
9.0-10.0	ES	0		No visual / olfactory evidence	9.0	NATURAL GROUND – Brownish grey, gravelly (medium to coarse, sub-angular to sub-rounded), coarse SANDS		
10.0-11.0 13.0-15.0 15.0-16.0	ES ES ES	0 0 0		No visual / olfactory evidence	11.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 5.0 mbgl and 8.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH223	
Drilling Method: Commachio			Date: 09/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
0.0-1.0	ES	4.6		No visual / olfactory evidence	0.3	MADE GROUND – Greyish brown, gravelly (medium to coarse, angular to sub-angular), sandy, CLAY		
				No visual / olfactory evidence	1.0	MADE GROUND – Brown, sandy CLAY		
2.0-3.0 3.0-4.0	ES ES	0.3 15.4		No visual / olfactory evidence	2.0	MADE GROUND – Assumed BOULDERS with some brown clay		
				Hyd. carb. odour	3.5	MADE GROUND – Assumed BOULDERS with some brown clay with wood fragments with greyish brown, clayey, angular to sub-angular gravels		
4.0-5.0	ES	5.1		No visual / olfactory evidence	4.0	MADE GROUND – Black SILT (reworked)		
5.0-6.0 6.0-7.0	ES ES	2.4 1.0	5.0	No visual / olfactory evidence	5.0	NATURAL GROUND – Greyish black, silty, angular to sub-angular, medium to coarse GRAVELS		
7.0-8.0	ES	1.3		No visual / olfactory evidence	7.0	NATURAL GROUND – Greyish black, silty, sub-rounded to sub-angular, medium to coarse GRAVELS		
				No visual / olfactory evidence	8.0	NATURAL GROUND – Greyish brown, sandy (coarse), sub-rounded to sub-angular, medium to coarse GRAVELS		
10.0-11.0 11.0-12.0	ES ES	0 0		No visual / olfactory evidence	10.0	NATURAL GROUND - Brown, slightly gravelly, fine SAND		
12.0-13.0 13.0-14.0 15.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence	12.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY		
Remarks: Groundwater strike at 5.0 mbgl and 8.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH224	
Drilling Method: Commachio			Date: 08/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
0.0-0.5	ES	0		No visual / olfactory evidence	0.25	MADE GROUND – Brownish grey, sandy clayey GRAVEL with red bricks		
1.0-2.0	ES	2.4		Hyd,.carb. odour	0.5	MADE GROUND – Brown, slightly sandy, gravelly CLAY with some assumed boulders		
2.0-3.0	ES	2.4		Hyd,.carb. odour	2.0	MADE GROUND - Brown, gravelly SAND (fill)		
3.0-4.0	ES	0.6	3.0	No visual / olfactory evidence	3.0	MADE GROUND – Greyish brown, sandy, angular to sub-angular GRAVEL (fill)		
5.0-6.0	ES	4.3		No visual / olfactory evidence	4.0	MADE GROUND - Black, slightly gravelly, SILT (reworked)		
6.0-7.0	ES	1.1		No visual / olfactory evidence	6.0	MADE GROUND - Black, gravelly SILT (reworked)		
			7.0	No visual / olfactory evidence	7.0	NATURAL GROUND - Grey, silty, angular to sub-angular, medium to coarse GRAVELS		
9.0-11.0	ES	0		No visual / olfactory evidence	8.0	NATURAL GROUND - Greyish brown, slightly sandy, sub-rounded to sub-angular, medium to coarse GRAVELS		
11.0-12.0	ES	0		No visual / olfactory evidence	11.0	NATURAL GROUND - Brown sand		
13.0-15.0 15.0-16.0 16.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence	12.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 3.0 mbgl and 7.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH225	
Drilling Method: Commachio			Date: 14/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
				No visual / olfactory evidence	0.2	MADE GROUND – Brown, slightly sandy, gravelly CLAY (fill)		
0.5-1.0	ES	0		No visual / olfactory evidence	0.5	MADE GROUND – Grey, gravelly, coarse SAND		
1.0-2.0 2.0-3.0 3.0-4.0	ES ES ES	0 0 0		No visual / olfactory evidence	0.9	MADE GROUND - Black SILT (reworked)		
4.0-5.0	ES	0		No visual / olfactory evidence	4.0	NATURAL GROUND - Greyish black, slightly gravelly SAND		
5.0-6.0 8.0-9.0	ES ES	0 0	5.0	No visual / olfactory evidence	5.0	NATURAL GROUND - Black, silty, sub-rounded to sub-angular, medium to coarse GRAVEL		
				No visual / olfactory evidence	9.5	NATURAL GROUND - Black, sub-rounded to sub-angular, medium to coarse GRAVELS and SANDS		
10.0-12.0	ES	0		No visual / olfactory evidence	10.0	NATURAL GROUND - Greyish brown, gravelly, sub-rounded to sub-angular, medium to coarse SAND		
12.0-13.0 13.0-14.0 15.0-17.0	ES ES ES	0 0 0		No visual / olfactory evidence	12.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 5.0 mbgl						Borehole terminated at 17 mbgl. Installed to 12.0 mbgl – 6 m plain, 6 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH226	
Drilling Method: Commachio			Date: 14/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND – Construction and demolition rubble	
0-0.5	ES	0.1		No visual / olfactory evidence		0.1	MADE GROUND – Brown, slightly sandy, slightly gravelly CLAY with red bricks	
				No visual / olfactory evidence		0.8	MADE GROUND – Brown, slightly gravelly, sandy CLAY (fill)	
1.0-2.0	ES	0.1		No visual / olfactory evidence		1.2	MADE GROUND - Grey, slightly gravelly SILT (reworked)	
2.0-3.0 3.0-4.0	ES ES	0.1 0.0		No visual / olfactory evidence		2.0	MADE GROUND - Greyish black SILT (reworked)	
4.3-5.0	ES	0.1		No visual / olfactory evidence		4.3	MADE GROUND - Grey, slightly gravelly, sub-rounded to sub-angular, medium to coarse SILT (reworked)	
				No visual / olfactory evidence		5.2	MADE GROUND - Grey, slightly gravelly, sandy SILT (reworked)	
6.0-7.0	ES	0.0		No visual / olfactory evidence		6.0	MADE GROUND - Grey, gravelly SILT. Gravels are angular to sub-angular (reworked)	
8.0-9.0 10.0-12.0	ES ES	0.0 0.0	8.0	No visual / olfactory evidence		8.0	NATURAL GROUND - Brownish grey, sandy, sub-rounded to sub-angular GRAVELS	
				No visual / olfactory evidence		12.0	NATURAL GROUND - Brown coarse SAND	
13.0-14.0 15.0-17.0	ES ES	0.0 0.0		No visual / olfactory evidence		13.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 8.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH227	
Drilling Method: Commachio			Date: 14/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND – Construction and demolition rubble	
				No visual / olfactory evidence		0.1	MADE GROUND – Brown, slightly sandy, slightly gravelly CLAY with red bricks	
0.5-1.0	ES	0.3		No visual / olfactory evidence		1.0	MADE GROUND - Grey, slightly gravelly, sandy SILT (reworked)	
1.0-2.0 2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES ES	0.1 0.0 0.0 0.0		No visual / olfactory evidence		1.8	MADE GROUND - Greyish black SILT (reworked)	
				No visual / olfactory evidence		5.0	MADE GROUND - Grey, gravelly SILT. Gravels are angular to sub-angular, medium to coarse (reworked)	
				No visual / olfactory evidence		5.2	MADE GROUND - Grey, slightly gravelly, sandy SILT (reworked)	
6.0-7.0	ES	0.0	7.0	No visual / olfactory evidence		6.0	NATURAL GROUND - Grey, gravelly SILT. Gravels are angular to sub-angular	
8.0-9.0 9.0-11.0 11.0-12.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		8.0	NATURAL GROUND - Brownish grey, sandy, sub-rounded to sub-angular GRAVELS	
12.0-13.0	ES	0.0		No visual / olfactory evidence		12.0	NATURAL GROUND - Brown coarse SAND	
14.0-15.0 15.0-17.0	ES ES	0.0 0.0		No visual / olfactory evidence		13.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 7.0 mbgl							Borehole terminated at 17 mbgl.	

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH228	
Drilling Method: Commachio			Date: 15/01/2019 – 16/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Construction and demolition rubble		
0.0-0.5 0.5-1.0	ES ES	0.2 0.2		No visual / olfactory evidence	0.1	MADE GROUND – Brown, slightly sandy, slightly gravelly CLAY with red bricks		
1.0-2.0	ES	0.1		No visual / olfactory evidence	1.0	NATURAL GROUND - Greyish black gravelly SILT (reworked)		
2.0-3.0 3.0-4.0	ES ES	0.0 0.0		No visual / olfactory evidence	2.0	NATURAL GROUND - Black SILT (reworked)		
5.0-6.0	ES	0.0		No visual / olfactory evidence	5.5	MADE GROUND - Black, gravelly SILT. Gravels are sub-rounded to sub-angular, medium to coarse (reworked)		
7.0-8.0	ES	0.0		No visual / olfactory evidence	7.0	NATURAL GROUND - Greyish black, very silty, sub-rounded to rounded, coarse GRAVELS		
8.0-10.0	ES	0.0	8.0	No visual / olfactory evidence	8.0	NATURAL GROUND - Grey, sandy, angular to sub-angular GRAVELS		
10.0-11.0 11.0-13.0	ES ES	0.0 0.0		No visual / olfactory evidence	10.0	NATURAL GROUND - Grey, gravelly, angular to sub-angular SANDS		
13.0-14.0 15.0-16.0	ES ES	0.0 0.0		No visual / olfactory evidence	13.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 8.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH229	
Drilling Method: Commachio			Date: 15/01/2019 – 16/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND – Construction and demolition rubble	
0.0-0.5	ES	0.2		No visual / olfactory evidence		0.1	MADE GROUND – Black, slightly sandy, gravelly CLAY. Gravel is angular to sub-angular	
1.0-2.0	ES	0.1		No visual / olfactory evidence		0.6	MADE GROUND - Blackish grey, slightly gravelly, silty SAND	
2.0-3.0 3.0-4.0	ES ES	0.0 0.0		No visual / olfactory evidence		1.2	MADE GROUND - Black SILT (reworked)	
5.0-6.0	ES	0.0		No visual / olfactory evidence		6.0	NATURAL GROUND - Black, silty, angular to sub-angular, coarse GRAVELS	
7.0-9.0	ES	0.0		No visual / olfactory evidence		7.0	NATURAL GROUND - Grey, sub-angular to sub-rounded, coarse GRAVELS	
			8.0	No visual / olfactory evidence		9.0	NATURAL GROUND - Grey-brown, sandy, sub-rounded to sub-angular, coarse GRAVELS	
11.0-12.0 12.0-13.0	ES ES	0.0 0.0		No visual / olfactory evidence		11.0	NATURAL GROUND - Brown, slightly gravelly, medium SAND	
13.0-14.0 15.0-16.0	ES ES	0.0 0.0		No visual / olfactory evidence		13.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 8.0 mbgl						Borehole terminated at 17 mbgl. Installed to 12.0 mbgl – 6 m plain, 6 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH230	
Drilling Method: Commachio			Date: 17/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Construction and demolition rubble		
0.0-0.5	ES	<0.1		No visual / olfactory evidence	0.1	MADE GROUND – Brown, slightly gravelly, sandy CLAY. Gravel is angular to sub-angular and coarse		
0.5-1.0 1.0-2.0	ES ES	26.3 1.3		No visual / olfactory evidence	0.5	MADE GROUND – Grey, gravelly, angular to sub-angular SAND (fill)		
2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES	0.7 <0.1 <0.1		No visual / olfactory evidence	2.0	MADEGROUND - Dark grey, sandy SILT with shell fragments (reworked)		
6.0-7.0 9.0-10.0 10.0-11.0	ES ES ES	0.5 1.0 0.3	6.0	No visual / olfactory evidence	5.0	NATURAL GROUND - Grey, slightly silty, sandy, angular to sub-angular, medium GRAVELS		
				No visual / olfactory evidence	11.0	NATURAL GROUND - Grey, sub-angular to sub-rounded, GRAVELS and coarse SANDS		
12.0-13.0	ES	<0.1		No visual / olfactory evidence	12.0	NATURAL GROUND - Brown, medium SANDS		
				No visual / olfactory evidence	13.0	NATURAL GROUND - Grey, sub-angular to sub-rounded, GRAVELS and coarse SANDS		
14.0-15.0 16.0-17.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	14.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH231	
Drilling Method: Commachio			Date: 17/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Tarmac		
0.0-0.5	ES	0.4		No visual / olfactory evidence	0.1	MADE GROUND – Grey, sandy GRAVELS with bricks and concrete		
1.0-2.0	ES	0.1		No visual / olfactory evidence	1.0	MADE GROUND – Dark grey, slightly sandy, gravelly CLAY		
2.0-3.0 3.0-4.0 4.0-5.0 5.0-6.0	ES ES ES ES	3.0 0.3 0.3 0.8		No visual / olfactory evidence	2.0	MADE GROUND - Dark grey sandy SILT (reworked)		
4.0-5.0 5.0-6.0	ES ES	0.3 0.8	6.0	No visual / olfactory evidence	4.0	MADE GROUND - Dark grey, silty sandy SILT (reworked)		
6.0-7.0 9.0-10.0 10.0-11.0	ES ES ES	0.2 1.0 0.9		No visual / olfactory evidence	5.0	NATURAL GROUND - Dark grey, slightly silty SANDS and GRAVELS with shell fragments		
11.0-12.0	ES	0.6		No visual / olfactory evidence	11.0	NATURAL GROUND - Grey SANDS and GRAVELS. Sands are coarse, gravels are fine to medium, sub-angular to sub-rounded		
12.0-13.0 13.0-14.0	ES ES	0.0 0.0		No visual / olfactory evidence	13.0	NATURAL GROUND - Brown, coarse, gravelly SANDS. Gravels are fine to medium, sub-angular to sub-rounded		
14.0-15.0 15.0-16.0 16.0-17.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence	14.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.0 mbgl						Borehole terminated at 17 mbgl. Installed to 14.0 mbgl – 6 m plain, 8 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH232	
Drilling Method: Commachio			Date: 14/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND – Concrete slab		
0.0-0.5	ES	0.5		No visual / olfactory evidence	0.2	MADE GROUND – Brown, slightly sandy, clayey, angular to sub-angular, medium to coarse GRAVELS with wood fragments (fill)		
0.5-1.0	ES	5.7		Creosote/ Hyd. carb. odour	0.5	MADE GROUND – Greyish black, slightly gravelly SILT		
1.0-2.0 2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES ES	0.5 0.3 0.3 0.0		Creosote/ Hyd. carb. odour	1.0	MADE GROUND –Black, slightly gravelly SILT (reworked)		
5.0-6.0 6.0-7.0	ES ES	0.0 0.0	5.5	No visual / olfactory evidence	5.0	NATURAL GROUND – Greyish black, silty, sub-angular to sub-rounded, medium to coarse GRAVELS		
7.0-8.0 8.0-10.0	ES ES	0.0 0.0		No visual / olfactory evidence	7.0	NATURAL GROUND - Grey, sandy, sub-angular to sub-rounded, medium to coarse GRAVELS		
				No visual / olfactory evidence	10.2	NATURAL GROUND – Brown, gravelly, fine to medium sub-rounded to sub-angular medium to coarse SANDS		
10.0-12.5	ES	0.0		No visual / olfactory evidence	11.5	NATURAL GROUND - Grey, sandy, coarse GRAVELS		
12.5-13.0 13.0-14.0 14.0-15.0 15.0-16.0 16.0-17.0	ES ES ES ES ES	0.0 0.0 0.0 0.0 0.0		No visual / olfactory evidence	12.5	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 5.5 mbgl						Borehole terminated at 17 mbgl. Installed to 5.0 mbgl – 0.5 m plain, 4 m slotted, 0.5 m plain		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH233	
Drilling Method: Commachio			Date: 11/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND – Concrete slab	
0.0-0.5 0.5-1.0	ES ES	0.0 0.0		No visual / olfactory evidence		0.2	MADE GROUND – Brown, gravelly, CLAY (fill). Gravels are angular to sub-angular, medium to coarse	
1.0-2.0	ES	0.0		No visual / olfactory evidence		1.0	MADE GROUND – Brown, mottled black, gravelly, silty CLAY (fill)	
2.0-3.0 3.0-4.0	ES ES	0.0 0.1		No visual / olfactory evidence		1.8	MADE GROUND – Black, SILT with shells (reworked)	
5.0-6.0	ES	0.1		No visual / olfactory evidence		5.0	MADE GROUND – Black, gravelly SILT with shells (reworked)	
8.0-9.0	ES	0.0	6.5	No visual / olfactory evidence		6.0	NATURAL GROUND – Grey/black silty, sub-rounded to rounded, medium to coarse GRAVELS	
9.5-10.0	ES	0.0		No visual / olfactory evidence		9.5	NATURAL GROUND – Brown-grey, sandy, sub-rounded to rounded, medium to coarse GRAVELS	
11.0-12.5	ES	0.0		No visual / olfactory evidence		11.0	NATURAL GROUND – Brown-grey, gravelly, sub-rounded to rounded, medium to coarse SANDS	
12.5-13.0 14.0-15.0 16.0-17.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		12.5	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 6.5 mbgl							Borehole terminated at 17 mbgl.	



RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH234		
Drilling Method: Commachio			Date: 11/01/2019		Client: Ronan Group Real Estate		Engineer: JS		
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:		
				No visual / olfactory evidence		0.0	MADE GROUND – Concrete slab		
0.8-1.0	ES	0.3		No visual / olfactory evidence		0.8	MADE GROUND – Grey, slightly clayey, slightly sandy, angular to sub-angular, GRAVELS		
1.2-2.0	ES	0.0		No visual / olfactory evidence		1.2	MADE GROUND – Brown, slightly gravelly SAND		
2.0-3.0	ES	0.0	2.0	No visual / olfactory evidence		2.0	MADE GROUND – Grey, slightly gravelly, sandy SILT (reworked)		
3.0-4.0	ES	0.0		No visual / olfactory evidence		3.0	MADE GROUND – Greyish black, slightly gravelly SILT (reworked)		
4.0-5.0	ES	0.0		No visual / olfactory evidence		3.8	MADE GROUND – Black, SILT (reworked)		
5.0-6.0	ES	0.0	5.5	No visual / olfactory evidence		5.2	MADE GROUND – Black, gravelly SILT. Gravels are sub-angular to sub-rounded and medium. (reworked)		
				No visual / olfactory evidence		6.0	NATURAL GROUND – Black, silty, sub-rounded to rounded, medium to coarse, GRAVELS		
7.0-8.0	ES	0.0		No visual / olfactory evidence		7.0	NATURAL GROUND – Greyish brown, sub-rounded to rounded, medium to coarse GRAVELS		
8.0-10.0	ES	0.0		No visual / olfactory evidence					
12.0-13.0	ES	0.0		No visual / olfactory evidence					
15.0-16.0	ES	0.0		No visual / olfactory evidence		13.0	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
16.0-17.0	ES	0.0		No visual / olfactory evidence					
Remarks: Groundwater strike at 2.0 mbgl and 5.5 mbgl							Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH235	
Drilling Method: Commachio			Date: 10/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND –Tarmac	
0.0-0.5 0.5-1.0	ES ES	0.0 0.0		No visual / olfactory evidence		0.2	MADE GROUND –Brown, clayey, angular to sub-angular, medium to coarse GRAVEL with red brick (fill)	
1.0-2.0	ES	0.0		No visual / olfactory evidence		0.8	MADE GROUND – Greyish brown, slightly sandy, gravelly CLAY with red bricks. Gravel is angular to sub-angular, medium to coarse	
2.0-3.0	ES	0.0		No visual / olfactory evidence		2.0	MADE GROUND Grey, sandy SILT with red bricks	
3.0-4.0 4.0-5.0	ES ES	0.0 0.0	4.0	No visual / olfactory evidence		3.0	MADE GROUND – Grey, gravelly, sub-angular to sub-rounded, medium to coarse SILT with shell fragments (reworked)	
			6.0	No visual / olfactory evidence		5.0	NATURAL GROUND – Grey, angular to sub-angular, medium to coarse, silty GRAVEL	
7.0-8.0 8.0-9.0	ES ES	0.0 0.0		No visual / olfactory evidence		7.0	NATURAL GROUND – Brown, angular to sub-angular, medium to coarse, sandy GRAVEL	
9.0-10.0	ES	0.0		No visual / olfactory evidence		9.0	NATURAL GROUND – Brown, gravelly, coarse SANDS. Gravels are rounded to sub-rounded and medium	
12.5-13.0 13.0-14.0 15.0-16.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		12.5	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 4.0 and 6.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH236	
Drilling Method: Commachio			Date: 21/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES	<0.1		No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab		
				No visual / olfactory evidence	0.25	MADE GROUND –Grey, sandy GRAVEL (fill)		
0.5-1.0	ES	<0.1		No visual / olfactory evidence	0.5	MADE GROUND – Grey, sandy, slightly gravelly CLAY		
1.0-2.0	ES	<0.1		No visual / olfactory evidence	1.0	MADE GROUND – Dark grey to black, slightly sandy SILT and bricks		
2.0-3.0	ES	<0.1		No visual / olfactory evidence	2.0	MADE GROUND – Grey, slightly sandy, slightly gravelly SILT (reworked)		
3.0-4.0 4.0-5.0 5.0-6.0	ES ES ES	<0.1 <0.1 <0.1		No visual / olfactory evidence	3.0	MADE GROUND – Dark grey to black, slightly sandy SILT (reworked)		
			6.5	No visual / olfactory evidence	6.0	NATURAL GROUND – Dark grey, slightly sandy, gravelly SILT. Gravels are sub-rounded, fine to medium		
8.0-9.0	ES	<0.1		No visual / olfactory evidence	7.0	NATURAL GROUND – Grey, sandy, sub-angular to sub-rounded fine to medium GRAVELS		
9.0-10.0	ES	<0.1		No visual / olfactory evidence	9.0	NATURAL GROUND – Grey-brown, coarse SANDS and sub-angular to sub-rounded, fine to medium GRAVELS and shells		
13.0-14.0 15.0-16.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	13.5	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.5 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH237	
Drilling Method: Commachio			Date: 21/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES	<0.1		No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab		
				No visual / olfactory evidence	0.25	MADE GROUND –Grey, sandy GRAVEL (fill) with bricks		
0.5-1.0	ES	<0.1		No visual / olfactory evidence	0.5	MADE GROUND – Grey, slightly sandy, gravelly SILT with concrete fragments		
1.0-2.0	ES	<0.1		No visual / olfactory evidence	1.0	MADE GROUND – Dark grey, slightly sandy, gravelly SILT with concrete fragments and bricks		
2.0-3.0	ES	<0.1		No visual / olfactory evidence	2.0	MADE GROUND – Dark grey to black sandy SILT (reworked)		
3.0-4.0 4.0-5.0 5.0-6.0	ES ES ES	<0.1 <0.1 <0.1		No visual / olfactory evidence	5.0	NATURAL GROUND – Dark grey, slightly silty, coarse SAND and fine, sub-rounded GRAVELS		
6.0-7.0 8.0-9.0	ES ES	<0.1 <0.1	6.5	No visual / olfactory evidence	6.0	NATURAL GROUND – Grey, silty, fine to medium, sub-angular to sub-rounded GRAVELS		
9.0-10.0	ES	<0.1		No visual / olfactory evidence	9.0	NATURAL GROUND – Brownish grey, coarse SANDS and angular to sub-angular, fine to medium GRAVELS		
12.0-13.0	ES	<0.1		No visual / olfactory evidence	12.0	NATURAL GROUND – Grey-brown, coarse SANDS and sub-angular to sub-rounded, fine to medium GRAVELS and shells		
14.0-15.0	ES	<0.1		No visual / olfactory evidence	13.5	NATURAL GROUND - Greyish black, slightly silty CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.5 mbgl						Borehole terminated at 17 mbgl. Installed to 5.0 mbgl – 1.0 m plain, 4.0 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH238	
Drilling Method: Commachio			Date: 18/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES	<0.1		No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab on sandy gravel (fill)		
				No visual / olfactory evidence	0.5	MADE GROUND – Concrete slab on slightly sandy, clayey gravel (fill) with brick fragments		
1.0-2.0	ES	<0.1		No visual / olfactory evidence	1.0	MADE GROUND – Dark grey sandy SILT with pottery		
2.0-3.0 3.0-4.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	2.0	MADE GROUND – Dark grey SILT (reworked)		
4.0-5.0	ES	<0.1		No visual / olfactory evidence	4.0	MADE GROUND – Dark grey-brown, slightly sandy, slightly gravelly SILT with shell fragments (reworked)		
5.0-6.0	ES	<0.1		No visual / olfactory evidence	5.0	NATURAL GROUND – Dark grey, slightly silty, coarse SANDS and fine to medium, sub-angular to sub-rounded GRAVELS		
6.0-7.0	ES	<0.1	6.5	No visual / olfactory evidence	6.0	NATURAL GROUND – Dark grey, silty, slightly sandy, fine to medium, sub-angular to sub-rounded GRAVELS		
9.0-10.0	ES	<0.1		No visual / olfactory evidence	9.0	NATURAL GROUND – Dark grey-brown, coarse SANDS and fine to medium, sub-angular to sub-rounded GRAVELS		
11.0-12.0 12.0-13.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	11.0	NATURAL GROUND – Dark grey-brown, gravelly, fine to medium SANDS. Gravels are fine to medium, sub-angular to sub-rounded		
14.0-15.0	ES	<0.1		No visual / olfactory evidence	13.5	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 6.5 mbgl						Borehole terminated at 17 mbgl.		



RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH239	
Drilling Method: Commachio			Date: 24/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND –Concrete slab	
0.0-0.5 0.5-1.0	ES ES	0 0		No visual / olfactory evidence		0.2	MADE GROUND – Slightly clayey, sandy GRAVEL (fill)	
1.0-2.0 2.0-3.0 3.0-4.0	ES ES ES	0 0 0		No visual / olfactory evidence		1.0	MADE GROUND - Black SILT (reworked)	
4.0-5.0	ES	0		No visual / olfactory evidence		4.0	MADE GROUND - Grey, fine, sandy SILT (reworked)	
5.0-6.0 6.0-7.0	ES ES	0 0		No visual / olfactory evidence		5.0	MADE GROUND - Blackish grey, gravelly SILT (reworked)	
				No visual / olfactory evidence		7.0	NATURAL GROUND - Grey, sandy GRAVELS	
8.0-9.0 11.0-12.0	ES ES	0 0	6.5	No visual / olfactory evidence		8.0	NATURAL GROUND - Brown, sandy GRAVELS	
15.0-16.0 16.0-17.0	ES ES	0 0		No visual / olfactory evidence		12.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 6.5 mbgl							Borehole terminated at 17 mbgl.	

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH240	
Drilling Method: Commachio			Date: 24/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND –Concrete slab	
0.0-0.5	ES	4.7		No visual / olfactory evidence		0.2	MADE GROUND – Grey, angular to sub-angular, medium to coarse, sandy GRAVEL (fill)	
0.5-1.0	ES	2.4		Hyd. carb. odours		0.5	MADE GROUND - Grey, sandy, slightly gravelly CLAY	
1.0-2.0 2.0-3.0 3.0-4.0	ES ES ES	0.0 0.1 0.0		No visual / olfactory evidence		1.0	MADE GROUND - Black, slightly gravelly SILT (reworked)	
5.0-6.0 8.0-9.0	ES ES	0.0 0.0	5.0	No visual / olfactory evidence		5.0	NATURAL GROUND - Black, slightly silty, sub-rounded to sub-angular, medium to coarse GRAVELS	
11.0-12.0	ES	0.0		No visual / olfactory evidence		9.0	NATURAL GROUND - Black, sandy, sub-rounded to sub-angular, medium to coarse GRAVELS	
13.0-14.0 15.0-16.0	ES ES	0.0 0.0	15.5	No visual / olfactory evidence		12.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 5.0 mbgl and 15.5 mbgl						Borehole terminated at 17 mbgl.		



RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH241	
Drilling Method: Commachio			Date: 29/01/2019 30/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
0.0-0.5	ES	0.0		No visual / olfactory evidence		0.0	MADE GROUND – Coarse, slightly sandy, angular to sub-angular GRAVELS with construction and demolition debris	
1.0-2.0	ES	0.6		No visual / olfactory evidence		0.5	MADE GROUND - Grey, slightly clayey, slightly gravelly SAND	
2.0-3.0	ES	0.2		No visual / olfactory evidence		1.0	MADE GROUND - Brown, slightly clayey, slightly gravelly SAND	
3.0-4.0	ES	0.1		No visual / olfactory evidence		3.0	MADE GROUND - Grey, slightly gravelly SILT (reworked)	
5.0-6.0 7.0-8.0	ES ES	0.1 0.0	5.0	No visual / olfactory evidence		5.0	NATURAL GROUND - Grey, silty GRAVELS. Gravels are sub-rounded to sub-angular	
9.0-10.0	ES	0.1		No visual / olfactory evidence		6.0	NATURAL GROUND - Grey, sandy sub-rounded to sub-angular GRAVELS.	
12.0-13.0 14.0-15.0 16.0-17.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		12.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 5.0 mbgl							Borehole terminated at 17 mbgl.	



RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH242	
Drilling Method: Commachio			Date: 29/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
0.0-0.5	ES	0.0		No visual / olfactory evidence		0.0	MADE GROUND –Coarse, slightly sandy, angular to sub-angular GRAVEL with construction and demolition debris	
1.0-2.0	ES	0.6		No visual / olfactory evidence		0.5	MADE GROUND - Grey, slightly clayey, slightly gravelly SAND	
2.0-3.0	ES	0.2		No visual / olfactory evidence		2.0	MADE GROUND - Brown, slightly clayey, slightly gravelly SAND	
3.0-4.0	ES ES	0.1 0.0		No visual / olfactory evidence		3.0	MADE GROUND - Grey, slightly gravelly, sandy CLAY	
5.0-6.0 6.0-7.0 8.0-9.0	ES ES ES	0.1 0.1 0.0	5.0	No visual / olfactory evidence		5.0	MADE GROUND Grey, gravelly SILT (reworked). Gravels are sub-rounded to sub-angular (re-worked)	
10.0-11.0 11.0-12.0	ES ES	0.0 0.0		No visual / olfactory evidence		9.0	NATURAL GROUND - Grey SANDS and GRAVELS	
13.0-14.0 14.0-15.0 16.0-17.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		12.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 5.0 mbgl							Borehole terminated at 17 mbgl.	

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH243	
Drilling Method: Commachio			Date: 22/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES			No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab with brown sands, gravel and brick		
				No visual / olfactory evidence	0.25	MADE GROUND – Brown, slightly gravelly, fine SAND		
0.5-1.0	ES			No visual / olfactory evidence	0.5	MADE GROUND – Brown, sandy SILT with C&D rubble		
1.0-2.0 2.0-3.0	ES ES			No visual / olfactory evidence	1.0	MADE GROUND – Dark grey, sandy SILT (reworked)		
4.0-5.0	ES			No visual / olfactory evidence	4.0	NATURAL GROUND – Dark grey, silty, coarse SAND		
5.0-6.0	ES			No visual / olfactory evidence	5.0	NATURAL GROUND – Grey, silty, coarse SAND and fine to medium sub-angular to sub-rounded GRAVELS		
6.0-7.0	ES		7.5	No visual / olfactory evidence	6.0	NATURAL GROUND – Grey, slightly sandy, silty, angular to sub-angular, medium GRAVELS		
8.0-9.0 11.0-12.0	ES ES			No visual / olfactory evidence	8.0	NATURAL GROUND – Brown, silty, coarse SANDS and fine to medium, sub-angular to sub-rounded GRAVELS		
13.0-14.0 14.0-15.0 15.0-16.0	ES ES ES			No visual / olfactory evidence	13.5	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 7.5 mbgl						Borehole terminated at 17 mbgl. Installed to 13.5 mbgl – 4.5 m plain, 9.0 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH244	
Drilling Method: Commachio			Date: 22/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
0.0-0.5	ES	<0.1		No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab		
				No visual / olfactory evidence	0.25	MADE GROUND – Grey, sandy GRAVEL (fill)		
				No visual / olfactory evidence	0.5	MADE GROUND – dark grey, slightly gravelly, clayey SAND with bricks		
				No visual / olfactory evidence	1.0	MADE GROUND – Dark grey, slightly silty, fine SAND		
2.0-3.0 3.0-4.0	ES ES	<0.1 <0.1		Hyd. carb. Odours	2.0	MADE GROUND – Dark grey-black, slightly sandy SILT (reworked)		
5.0-6.0 6.0-7.0 7.0-8.0 8.0-9.0	ES ES ES ES	1.1 5.3 1.6 0.4	5.5	No visual / olfactory evidence	5.0	NATURAL GROUND – Grey, silty, fine to medium SANDS and sub-angular to sub-rounded limestone GRAVELS		
10.0-11.0	ES	<0.1		No visual / olfactory evidence	9.0	NATURAL GROUND – Brown, coarse SANDS and fine to medium, sandy sub-angular to sub-rounded GRAVELS		
12.0-13.0	ES	<0.1		No visual / olfactory evidence	12.0	NATURAL GROUND – Brown, slightly gravelly, coarse SAND. Gravels are fine to medium, sub-angular to sub-rounded		
14.0-15.0 16.0-17.0	ES ES	<0.1 <0.1		No visual / olfactory evidence	14.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 5.5 mbgl						Borehole terminated at 17 mbgl. Installed to 13.5 mbgl – 4.5 m plain, 6 m slotted, 3.0 m plain		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH245	
Drilling Method: Commachio			Date: 22/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab		
				No visual / olfactory evidence	0.25	MADE GROUND – Grey, sandy GRAVEL and brick (fill)		
0.5-1.0	ES	0.1		No visual / olfactory evidence	0.5	MADE GROUND - Dark grey, gravelly SAND		
2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES	0.3 3.5 5.0		Hyd. carb. odours	2.0	NATURAL GROUND - Dark grey, slightly sandy SILT (reworked)		
5.0-6.0 6.0-7.0	ES ES	3.8 2.6	5.5	Hyd. carb. odours	5.0	NATURAL GROUND - Dark grey-black, slightly sandy SILT		
8.0-9.0 9.0-10.0	ES ES	2.3 0.6		No visual / olfactory evidence	8.0	NATURAL GROUND – Brown-grey coarse SANDS and fine to medium sub-angular to sub-rounded GRAVELS and shells		
				No visual / olfactory evidence	11.0	NATURAL GROUND – Brown, gravelly, medium to coarse SANDS		
12.0-13.0	ES	0.1		No visual / olfactory evidence	12.0	NATURAL GROUND – Brown, fine SANDS		
15.0-16.0	ES	0.0		No visual / olfactory evidence	13.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 5.5 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH246	
Drilling Method: Commachio			Date: 23/01/2019		Client: Ronan Group Real Estate		Engineer: PF	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND –Concrete slab	
0.5-1.0	ES	0.2		No visual / olfactory evidence		0.25	MADE GROUND – Dark grey, slightly gravelly, sandy CLAY	
1.0-2.0 2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES ES	0.6 7.0 5.1 1.6		Hyd. carb. odours		1.0	MADE GROUND - Dark grey sandy SILT (reworked)	
5.0-6.0 6.0-7.0	ES ES	5.6 0.4	6.0	No visual / olfactory evidence		5.0	NATURAL GROUND - Dark grey, silty, medium, angular to sub-angular, limestone GRAVELS	
10.0-11.0	ES	0.1		No visual / olfactory evidence		8.0	NATURAL GROUND – Brown-grey coarse SANDS and fine to medium sub-angular to sub-rounded GRAVELS	
12.0-13.0 14.0-15.0 16.0-17.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		12.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 6.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH247		
Drilling Method: Commachio			Date: 25/01/2019		Client: Ronan Group Real Estate		Engineer: JS		
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:		
				No visual / olfactory evidence		0.0	MADE GROUND –Concrete slab		
				No visual / olfactory evidence		0.2	MADE GROUND – Brown-grey, gravelly, silty CLAY		
0.5-1.0	ES	0.1		No visual / olfactory evidence		0.5	MADE GROUND – Grey, clayey SAND (fill)		
1.0-2.0	ES	0.2		No visual / olfactory evidence		1.0	MADE GROUND - Grey, slightly gravelly, silty CLAY		
2.0-3.0 3.0-4.0 4.0-5.0	ES ES ES	0.1 0.0 0.0		Hyd. carb. odours		2.0	MADE GROUND - Black SILT (reworked)		
6.0-7.0	ES	0.0	5.0	No visual / olfactory evidence		5.0	NATURAL GROUND - Dark grey, silty, medium, angular to sub-angular limestone GRAVELS		
8.0-9.0 9.0-10.0	ES ES	0.0 0.0		No visual / olfactory evidence		8.0	NATURAL GROUND - Coarse SANDS and fine to medium sub-angular to sub-rounded GRAVELS		
12.0-13.0 13.0-14.0 15.0-16.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		12.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 5.0 mbgl							Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH248	
Drilling Method: Commachio			Date: 25/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records	MW Depth (m)	Description:		
				No visual / olfactory evidence	0.0	MADE GROUND –Concrete slab		
0.0-0.5	ES	0.0		No visual / olfactory evidence	0.2	MADE GROUND – Brown, gravelly, sandy CLAY with red brick		
0.5-1.0	ES	0.7		No visual / olfactory evidence	0.5	MADE GROUND - Brown, fine, gravelly SAND		
1.0-2.0	ES	0.2		No visual / olfactory evidence	1.0	MADE GROUND - Grey, fine, slightly clayey, slightly silty SAND		
2.0-3.0 3.0-4.0	ES ES	0.2 0.1		No visual / olfactory evidence	2.0	MADE GROUND - Black SILT (reworked)		
5.0-6.0	ES	0.0	5.0	No visual / olfactory evidence	5.0	NATURAL GROUND - Dark grey, silty, medium, angular to sub-angular limestone GRAVELS		
7.0-8.0	ES	0.0		No visual / olfactory evidence	7.0	NATURAL GROUND - Brown, silty, medium, angular to sub-angular limestone GRAVELS		
10.0-11.0 11.0-12.0	ES ES	0.0 0.0		No visual / olfactory evidence	9.0	NATURAL GROUND - Brown, sandy, medium, angular to sub-angular limestone GRAVELS		
13.0-14.0 15.0-16.0	ES ES	0.0 0.0		No visual / olfactory evidence	12.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)		
Remarks: Groundwater strike at 5.0 mbgl						Borehole terminated at 17 mbgl.		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH249	
Drilling Method: Commachio			Date: 25/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
0.0-0.5	ES	0.1		No visual / olfactory evidence		0.0	MADE GROUND – Grey, sandy, coarse, angular to sub-angular GRAVEL with construction and demolition debris	
0.5-1.0	ES	0.2		No visual / olfactory evidence		0.5	MADE GROUND – Grey-brown, gravelly, sandy CLAY	
1.0-2.0	ES	0.1		No visual / olfactory evidence		1.0	MADE GROUND – Grey-brown, slightly sandy, gravelly CLAY	
2.0-3.0	ES	0.1		No visual / olfactory evidence		2.0	MADE GROUND - Black SILT (reworked)	
4.0-5.0	ES	0.0		No visual / olfactory evidence		4.5	MADE GROUND - Black, slightly gravelly SILT (reworked)	
5.0-6.0	ES	0.1	5.0	No visual / olfactory evidence		5.0	NATURAL GROUND - Grey, silty, sub-angular to sub-rounded GRAVELS	
6.0-7.0	ES	0.0		No visual / olfactory evidence		6.0	NATURAL GROUND - Grey, coarse, sub-angular to sub-rounded GRAVELS	
				No visual / olfactory evidence		7.0	NATURAL GROUND - Brown, coarse, sub-angular to sub-rounded GRAVELS	
9.0-10.0 10.0-11.0	ES ES	0.0 0.0		No visual / olfactory evidence		8.0	NATURAL GROUND - Grey, coarse SANDS and fine to coarse GRAVELS	
12.0-13.0 14.0-15.0 16.0-17.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		11.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 5.0 mbgl						Borehole terminated at 17 mbgl. Installed to 10.0 mbgl – 5.0 m plain, 5.0 m slotted		

RSK (IRELAND) LTD					Site: 602387 Project Waterfront		BH No: BH250	
Drilling Method: Commachio			Date: 30/01/2019		Client: Ronan Group Real Estate		Engineer: JS	
Sample Depth (m)	Sample Type	PID (ppm)	Water Depth (m)	Field Records		MW Depth (m)	Description:	
				No visual / olfactory evidence		0.0	MADE GROUND – Concrete Slab	
				No visual / olfactory evidence		0.2	MADE GROUND – Blackish grey gravelly, slightly sandy CLAY with red brick and building debris	
0.5-1.0 1.0-2.0	ES ES	0.2 0.0		No visual / olfactory evidence		1.0	MADE GROUND – Blackish grey, slightly gravelly SILT (reworked)	
3.0-4.0 4.0-5.0 5.0-6.0	ES ES ES	0.3 0.1 0.0		No visual / olfactory evidence		2.0	NATURAL GROUND – Blackish grey SILT (reworked)	
				No visual / olfactory evidence		6.0	MADE GROUND - Black, slightly gravelly SILT (reworked)	
			7.0	No visual / olfactory evidence		7.0	NATURAL GROUND – Black silty sub angular to sub rounded course GRAVELS	
8.0-9.0	ES	0.0		No visual / olfactory evidence		8.0	NATURAL GROUND - Grey, coarse, sub-angular to sub-rounded GRAVELS	
11.0-12.0	ES	0.0		No visual / olfactory evidence		9.0	NATURAL GROUND - Grey, coarse, sub-angular to sub-rounded, sandy GRAVELS	
13.0-14.0 14.0-15.0 16.0-17.0	ES ES ES	0.0 0.0 0.0		No visual / olfactory evidence		13.0	NATURAL GROUND – Greyish black CLAY (BOULDER CLAY)	
Remarks: Groundwater strike at 7.0 mbgl						Borehole terminated at 17 mbgl.		



APPENDIX C

Soil Laboratory Certificates of Analysis



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	21
Your Reference:	602387	Samples Scheduled:	21

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19262407	BH241		0.00 - 0.50	30/01/2019
19262410	BH241		1.00 - 2.00	30/01/2019
19262423	BH241		12.00 - 13.00	30/01/2019
19262426	BH241		14.00 - 15.00	30/01/2019
19262428	BH241		16.00 - 17.00	30/01/2019
19262411	BH241		2.00 - 3.00	30/01/2019
19262412	BH241		3.00 - 4.00	30/01/2019
19262414	BH241		5.00 - 6.00	30/01/2019
19262417	BH241		7.00 - 8.00	30/01/2019
19262419	BH241		9.00 - 10.00	30/01/2019
19262389	BH250		0.50 - 1.00	30/01/2019
19262390	BH250		1.00 - 2.00	30/01/2019
19262401	BH250		11.00 - 12.00	30/01/2019
19262403	BH250		13.00 - 14.00	30/01/2019
19262404	BH250		14.00 - 15.00	30/01/2019
19262406	BH250		16.00 - 17.00	30/01/2019
19262393	BH250		2.00 - 3.00	30/01/2019
19262394	BH250		3.00 - 4.00	30/01/2019
19262395	BH250		4.00 - 5.00	30/01/2019
19262396	BH250		5.00 - 6.00	30/01/2019
19262398	BH250		8.00 - 9.00	30/01/2019

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19262411	19262412	19262414	19262417	19262419	19262423	19262426	19262428
Customer Sample Reference	BH241	BH241	BH241	BH241	BH241	BH241	BH241	BH241
AGS Reference								
Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	9.00 - 10.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00
Container	250g Amber Jar 60g VOC (ALE215)	1kg TUB 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	60g VOC (ALE215)

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 21	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19262411	19262412	19262414	19262417	19262419	19262423	19262426	19262428
Customer Sample Reference	BH241	BH241	BH241	BH241	BH241	BH241	BH241	BH241
AGS Reference								
Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	9.00 - 10.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00
Container	250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	60g VOC (ALE215) 250g Amber Jar 1kg TUB

PCBs by GCMS	All	NDPs: 0 Tests: 20	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 21	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 21	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 21		X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 21	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 21		X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 21	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 21	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 21	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH241	BH241	BH241	BH241	BH241	BH241
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262407	19262410	19262423	19262426	19262428	19262411
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	14	15	9.6	9.1	9	21
Loss on ignition	<0.7 %	TM018	2.54	2.58	1.6	2.38	3.38	1.46
Mineral Oil Surrogate % recovery**	%	TM061	70	79.9	75.9	75.3	73.2	83.4
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	<1	17.6	17.3	5.54
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.33	1.59	0.572	0.74	0.773	0.561
pH	1 pH Units	TM133	9.72	8.05	8.59	8.37	8.51	8.11
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	12.7	5.57	9.2	10.3	11.4	6.43
Cadmium	<0.02 mg/kg	TM181	1.07	0.191	1.49	1.64	1.8	0.212
Chromium	<0.9 mg/kg	TM181	10.7	7.2	5.6	8.35	8.39	7.75
Copper	<1.4 mg/kg	TM181	63.4	5.81	21	27.4	33	7.34
Lead	<0.7 mg/kg	TM181	76.6	12	12.8	14.6	23.8	18.2
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	45	9.06	28.2	34.2	37.5	9.99
Selenium	<1 mg/kg	TM181	1.18	<1	2.41	3.04	3.38	<1
Zinc	<1.9 mg/kg	TM181	258	25.9	76	77.8	92.6	28.7
ANC @ pH 4	<0.03 mol/kg	TM182	1.08	0.13	1.16	1.57	1.66	0.16
ANC @ pH 6	<0.03 mol/kg	TM182	0.129	0.0351	0.24	0.295	0.13	0.0548
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH241	BH241	BH241	BH241	BH250	BH250
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	9.00 - 10.00	0.50 - 1.00	1.00 - 2.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262412	19262414	19262417	19262419	19262389	19262390
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	25	20	10	13	20	25
Loss on ignition	<0.7 %	TM018	4.95	3.43	0.935	1.06	4.42	5.9
Mineral Oil Surrogate % recovery**	%	TM061	75.5	74.2	74.4	75.7	77.8	74.5
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	18.4	<1	<1	<1	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.03	1.57	0.205	0.274	1.48	1.92
pH	1 pH Units	TM133	7.4	7.67	8.6	9.08	7.55	7.86
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	12.3	10.6	6.31	6.48	25.5	18.7
Cadmium	<0.02 mg/kg	TM181	0.627	0.596	0.666	1	6.54	3.07
Chromium	<0.9 mg/kg	TM181	11.5	9.03	6.46	6.51	17.1	21.4
Copper	<1.4 mg/kg	TM181	29.1	26.3	11.2	11.1	242	145
Lead	<0.7 mg/kg	TM181	55.9	42.7	13.3	7.91	548	310
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	0.169	0.573
Nickel	<0.2 mg/kg	TM181	18.9	20.9	15.1	19.5	32.2	35.1
Selenium	<1 mg/kg	TM181	<1	<1	<1	1.33	<1	<1
Zinc	<1.9 mg/kg	TM181	64.9	67.6	67	101	1670	722
ANC @ pH 4	<0.03 mol/kg	TM182	0.314	0.163	0.0971	0.145	0.257	0.628
ANC @ pH 6	<0.03 mol/kg	TM182	0.047	0.0547	0.0606	0.0664	0.0493	0.0651
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH250	BH250	BH250	BH250	BH250	BH250
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262401	19262403	19262404	19262406	19262393	19262394
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	14	10	11	11	23	27
Loss on ignition	<0.7 %	TM018	0.711	2.35	2.33	2.71	8.42	6.18
Mineral Oil Surrogate % recovery**	%	TM061	74.5	73.6	82.4	78.1	77.5	74
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	<1	<1	10.2	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.307	0.722	0.647	0.776	2.08	1.9
pH	1 pH Units	TM133	8.96	8.37	8.31	8.42	8.05	7.98
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.09	9.13	8.63	10.9	15.8	16.5
Cadmium	<0.02 mg/kg	TM181	1.13	1.64	1.49	1.81	1.22	0.909
Chromium	<0.9 mg/kg	TM181	7.34	6.83	8.39	7.69	15.5	16.1
Copper	<1.4 mg/kg	TM181	18.7	26.8	27.7	33.6	49.7	50.3
Lead	<0.7 mg/kg	TM181	25.6	19	31.1	27.2	100	130
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	0.16	0.295
Nickel	<0.2 mg/kg	TM181	21.9	32.3	33.9	35.9	25.5	24.7
Selenium	<1 mg/kg	TM181	1.52	3.05	2.77	3.07	1.06	<1
Zinc	<1.9 mg/kg	TM181	133	83.9	94.4	112	182	135
ANC @ pH 4	<0.03 mol/kg	TM182	0.0567	1.28	1.46	1.3	0.38	0.542
ANC @ pH 6	<0.03 mol/kg	TM182	0.0409	0.117	0.186	0.126	0.0505	0.0808
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH250	BH250	BH250			
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00			
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)			
		Date Sampled	30/01/2019	30/01/2019	30/01/2019			
		Date Received	02/02/2019	02/02/2019	02/02/2019			
		SDG Ref	190228-53	190228-53	190228-53			
		Lab Sample No.(s)	19262395	19262396	19262398			
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	23	12	11			
Loss on ignition	<0.7 %	TM018	5.52	2.4	1.94			
Mineral Oil Surrogate % recovery**	%	TM061	78.3	72.8	78.4			
Mineral oil >C10-C40	<1 mg/kg	TM061	16.3	<1	<1			
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
Cresols	<0.01 mg/kg	TM062 (S)	0.0129	<0.01	<0.01			
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015			
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015			
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06			
Organic Carbon, Total	<0.2 %	TM132	1.83	1.37	0.231			
pH	1 pH Units	TM133	8.5	8.35	8.7			
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6			
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3			
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21			
Arsenic	<0.6 mg/kg	TM181	14.2	11.1	2.85			
Cadmium	<0.02 mg/kg	TM181	0.823	0.579	0.853			
Chromium	<0.9 mg/kg	TM181	12.8	19.1	3.43			
Copper	<1.4 mg/kg	TM181	52.4	31.7	4.89			
Lead	<0.7 mg/kg	TM181	117	58.3	2.78			
Mercury	<0.14 mg/kg	TM181	0.489	<0.14	<0.14			
Nickel	<0.2 mg/kg	TM181	21	34.7	11.1			
Selenium	<1 mg/kg	TM181	<1	<1	<1			
Zinc	<1.9 mg/kg	TM181	144	97.7	32.9			
ANC @ pH 4	<0.03 mol/kg	TM182	0.212	0.183	0.0957			
ANC @ pH 6	<0.03 mol/kg	TM182	0.0643	0.0596	0.0625			
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10			
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH241	BH241	BH241	BH241	BH241	BH241
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262407	19262410	19262423	19262426	19262428	19262411
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	75.5	92.8	97.1	91.9	93.9	94.6
Acenaphthene-d10 % recovery**	%	TM218	74.4	93.5	91.4	82.3	95.1	96.2
Phenanthrene-d10 % recovery**	%	TM218	73.1	96.2	89.4	82.7	95.8	94.4
Chrysene-d12 % recovery**	%	TM218	59.1	92.1	77	62.9	80.2	93.4
Perylene-d12 % recovery**	%	TM218	49.8	89.1	72.9	55.5	70.5	97.2
Naphthalene	<9 µg/kg	TM218	29.2	12	<9	12.6	17.9	<9
Acenaphthylene	<12 µg/kg	TM218	13.9	24.1	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	13.6	<8	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	16.4	<10	<10	<10	15.6	13
Phenanthrene	<15 µg/kg	TM218	111	276	<15	37.4	59.3	36.6
Anthracene	<16 µg/kg	TM218	46.7	232	<16	<16	<16	29.8
Fluoranthene	<17 µg/kg	TM218	181	876	<17	<17	<17	104
Pyrene	<15 µg/kg	TM218	141	648	<15	<15	<15	90.6
Benz(a)anthracene	<14 µg/kg	TM218	95.7	506	<14	<14	<14	60.7
Chrysene	<10 µg/kg	TM218	83.3	400	<10	<10	<10	45.1
Benzo(b)fluoranthene	<15 µg/kg	TM218	113	428	<15	<15	<15	59.8
Benzo(k)fluoranthene	<14 µg/kg	TM218	50.1	173	<14	<14	<14	25.1
Benzo(a)pyrene	<15 µg/kg	TM218	76.9	320	<15	<15	<15	42.4
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	41.7	133	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	51.7	119	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1070	4150	<118	<118	<118	507



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH241	BH241	BH241	BH241	BH250	BH250
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	9.00 - 10.00	0.50 - 1.00	1.00 - 2.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262412	19262414	19262417	19262419	19262389	19262390
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	98.6	97.8	96.8	98.9	100	94.9
Acenaphthene-d10 % recovery**	%	TM218	92.7	95.6	96.1	94.1	90.8	94.2
Phenanthrene-d10 % recovery**	%	TM218	95.1	92.8	102	91	90.8	101
Chrysene-d12 % recovery**	%	TM218	104	85.8	92.1	74.4	94.4	99.4
Perylene-d12 % recovery**	%	TM218	95.8	81.8	91.7	71.8	93.4	102
Naphthalene	<9 µg/kg	TM218	87.6 @	30.5 @	<9 @	<9 @	40.9 @	40.6 @
Acenaphthylene	<12 µg/kg	TM218	34.4 @	<12 @	<12 @	<12 @	21.9 @	<12 @
Acenaphthene	<8 µg/kg	TM218	73.3 @	17.5 @	<8 @	<8 @	13.1 @	17.3 @
Fluorene	<10 µg/kg	TM218	98.8 @	26.7 @	<10 @	<10 @	23 @	37.6 @
Phenanthrene	<15 µg/kg	TM218	250 @	80.9 @	<15 @	<15 @	172 @	124 @
Anthracene	<16 µg/kg	TM218	204 @	40.8 @	<16 @	<16 @	78.9 @	58 @
Fluoranthene	<17 µg/kg	TM218	813 @	132 @	<17 @	<17 @	395 @	197 @
Pyrene	<15 µg/kg	TM218	642 @	104 @	18.9 @	<15 @	323 @	155 @
Benz(a)anthracene	<14 µg/kg	TM218	480 @	56.3 @	<14 @	<14 @	248 @	85.8 @
Chrysene	<10 µg/kg	TM218	384 @	45.5 @	<10 @	<10 @	221 @	60.4 @
Benzo(b)fluoranthene	<15 µg/kg	TM218	447 @	39.5 @	<15 @	<15 @	298 @	65.8 @
Benzo(k)fluoranthene	<14 µg/kg	TM218	181 @	20.8 @	<14 @	<14 @	120 @	31.1 @
Benzo(a)pyrene	<15 µg/kg	TM218	346 @	36.3 @	<15 @	<15 @	218 @	64 @
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	129 @	<18 @	<18 @	<18 @	102 @	32.8 @
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	48.4 @	<23 @	<23 @	<23 @	37.4 @	<23 @
Benzo(g,h,i)perylene	<24 µg/kg	TM218	142 @	<24 @	<24 @	<24 @	127 @	44.2 @
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4360	632	<118	<118	2440	1010



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH250	BH250	BH250	BH250	BH250	BH250
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262401	19262403	19262404	19262406	19262393	19262394
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	98.8	95	93.2	93.6	96.6	90.6
Acenaphthene-d10 % recovery**	%	TM218	92.5	89.9	90.2	97.6	91.5	93.3
Phenanthrene-d10 % recovery**	%	TM218	92	90.4	82.7	98	97.4	98
Chrysene-d12 % recovery**	%	TM218	80.5	74.4	71.4	91.1	92.3	94.2
Perylene-d12 % recovery**	%	TM218	77.5	71.2	70.1	81.3	85.4	89
Naphthalene	<9 µg/kg	TM218	<9	<9	<9	<9	384	280
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	41.7	32
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	126	93.5
Fluorene	<10 µg/kg	TM218	<10	<10	<10	<10	371	278
Phenanthrene	<15 µg/kg	TM218	<15	<15	<15	19.5	1280	966
Anthracene	<16 µg/kg	TM218	<16	<16	<16	<16	531	341
Fluoranthene	<17 µg/kg	TM218	<17	<17	<17	<17	1430	927
Pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	1020	666
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	<14	624	374
Chrysene	<10 µg/kg	TM218	<10	<10	<10	<10	475	303
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	<15	533	395
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	199	127
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	403	261
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	149	109
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	56	41.2
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	161	112
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	<118	<118	7780	5300



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH250	BH250	BH250			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00			
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)			
aq	Aqueous / settled sample.		30/01/2019	30/01/2019	30/01/2019			
diss.filt	Dissolved / filtered sample.		02/02/2019	02/02/2019	02/02/2019			
tot.unfilt	Total / unfiltered sample.		190228-53	190228-53	190228-53			
*	Subcontracted - refer to subcontractor report for accreditation status.		19262395	19262396	19262398			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	93	94.8	101			
Acenaphthene-d10 % recovery**	%	TM218	98	93	91.8			
Phenanthrene-d10 % recovery**	%	TM218	104	97.9	91.2			
Chrysene-d12 % recovery**	%	TM218	101	92.6	81.7			
Perylene-d12 % recovery**	%	TM218	100	92.9	81.4			
Naphthalene	<9 µg/kg	TM218	97.5	37.8	<9			
			@	@	@			
Acenaphthylene	<12 µg/kg	TM218	18.4	<12	<12			
			@	@	@			
Acenaphthene	<8 µg/kg	TM218	33	14.7	<8			
			@	@	@			
Fluorene	<10 µg/kg	TM218	99.8	35.5	<10			
			@	@	@			
Phenanthrene	<15 µg/kg	TM218	349	112	<15			
			@	@	@			
Anthracene	<16 µg/kg	TM218	226	42.8	<16			
			@	@	@			
Fluoranthene	<17 µg/kg	TM218	458	123	<17			
			@	@	@			
Pyrene	<15 µg/kg	TM218	339	93	<15			
			@	@	@			
Benz(a)anthracene	<14 µg/kg	TM218	229	53.7	<14			
			@	@	@			
Chrysene	<10 µg/kg	TM218	193	42.9	<10			
			@	@	@			
Benzo(b)fluoranthene	<15 µg/kg	TM218	243	30.7	<15			
			@	@	@			
Benzo(k)fluoranthene	<14 µg/kg	TM218	98.4	19.2	<14			
			@	@	@			
Benzo(a)pyrene	<15 µg/kg	TM218	165	39.4	<15			
			@	@	@			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	72.1	<18	<18			
			@	@	@			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23			
			@	@	@			
Benzo(g,h,i)perylene	<24 µg/kg	TM218	78.2	<24	<24			
			@	@	@			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2700	645	<118			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH241	BH241	BH241	BH241	BH241	BH241
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262407	19262410	19262423	19262426	19262428	19262411
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	44.3	103	21.9	19.7	22.5	87.9
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @	<100 @	<100 @	<100 @	<100 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	10.1 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	12.6 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	15.1 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	20.2 @
Aliphatics >C12-C16	<100 µg/kg	TM173	1890	170	1500	<100	2900	189
Aliphatics >C16-C21	<100 µg/kg	TM173	1580	<100	1430	<100	3180	160
Aliphatics >C21-C35	<100 µg/kg	TM173	3650	1090	6540	8400	19700	6360
Aliphatics >C35-C44	<100 µg/kg	TM173	582	<100	1180	1840	3980	1730
Total Aliphatics >C12-C44	<100 µg/kg	TM173	7700	1260	10600	10200	29800	8440
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	10.1 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	13.9 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	676	1020	1010	<100	<100	735
Aromatics >EC16-EC21	<100 µg/kg	TM173	1930	1940	890	<100	<100	1300
Aromatics >EC21-EC35	<100 µg/kg	TM173	8380	7920	1650	3420	5950	9240
Aromatics >EC35-EC44	<100 µg/kg	TM173	978	1230	118	373	687	1170
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	12000	12100	3670	3790	6640	12400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	19700	13400	14300	14000	36400	21000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH241	BH241	BH241	BH241	BH250	BH250
#	ISO17025 accredited.	Depth (m)	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	9.00 - 10.00	0.50 - 1.00	1.00 - 2.00
M	mCERTS accredited.	Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
aq	Aqueous / settled sample.	Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
diss.filt	Dissolved / filtered sample.	Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
tot.unfilt	Total / unfiltered sample.	SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
*	Subcontracted - refer to subcontractor report for accreditation status.	Lab Sample No.(s)	19262412	19262414	19262417	19262419	19262389	19262390
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	125	125	92.8	100	77.6	82.6
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	149	122	<100	146	153
Aliphatics >C5-C6	<10 µg/kg	TM089	10.7	<10	12.2	15	17.6	22.6
Aliphatics >C6-C8	<10 µg/kg	TM089	28.1	27.7	22.2	23	30.2	34.6
Aliphatics >C8-C10	<10 µg/kg	TM089	34.8	39.1	20	15	27.7	29.3
Aliphatics >C10-C12	<10 µg/kg	TM089	20.1	26.5	31.1	15	29	29.3
Aliphatics >C12-C16	<100 µg/kg	TM173	710	<100	1150	<100	<100	410
Aliphatics >C16-C21	<100 µg/kg	TM173	4300	599	692	<100	886	6310
Aliphatics >C21-C35	<100 µg/kg	TM173	12700	6310	402	<100	6960	2350
Aliphatics >C35-C44	<100 µg/kg	TM173	1840	1090	179	<100	1330	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	19500	8000	2430	<100	9180	9070
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	22.8	26.5	13.3	10.4	17.6	18.6
Aromatics >EC10-EC12	<10 µg/kg	TM089	13.4	17.6	21.1	10.4	18.9	18.6
Aromatics >EC12-EC16	<100 µg/kg	TM173	2330	161	867	<100	2180	2670
Aromatics >EC16-EC21	<100 µg/kg	TM173	13200	3950	351	<100	2410	61500
Aromatics >EC21-EC35	<100 µg/kg	TM173	50200	15700	<100	<100	8090	54200
Aromatics >EC35-EC44	<100 µg/kg	TM173	9550	2340	<100	<100	764	2380
Aromatics >EC40-EC44	<100 µg/kg	TM173	2090	354	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	75300	22100	1220	<100	13400	121000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	94900	30300	3760	<100	22800	130000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH250	BH250	BH250	BH250	BH250	BH250
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262401	19262403	19262404	19262406	19262393	19262394
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	91.4	15.4	13.8	13.7	102	89.6
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @	<100 @	<100 @	<100 @	295 @	344 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	24.7 @	31.5 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	31.2 @	42.5 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	50.7 @	61.7 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	91 @	97.3 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	344	<100	<100	1160
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	1220	158	4010	3300
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	<100	3740	2820	17200	10800
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	683	1050	1710	1350
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	<100	5990	4020	22900	16700
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	33.8 @	41.1 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	59.8 @	65.8 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	1180	651	4830	4990
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	1250	822	24800	19900
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	1370	4790	3010	79700	67800
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100	982	580	17800	11300
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	165	4930	3190
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	1370	8200	5060	127000	104000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	<100	1370	14200	9090	150000	121000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH241	BH241	BH241	BH241	BH241	BH241
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262407	19262410	19262423	19262426	19262428	19262411
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	110 @	103 @	134 @	121 @	113 @	110 @
Toluene-d8**	%	TM116	97.2 @	97.7 @	89.8 @	88.3 @	88.7 @	98.8 @
4-Bromofluorobenzene**	%	TM116	90.3 @	95.1 @	78.3 @	70.6 @	73.1 @	101 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
Benzene	<9 µg/kg	TM116	<180 @	<180 @	<180 @	<180 @	<180 @	<180 @
Toluene	<7 µg/kg	TM116	<140 @	<140 @	180 @	<140 @	<140 @	<140 @
Ethylbenzene	<4 µg/kg	TM116	<80 @	<80 @	<80 @	<80 @	<80 @	<80 @
p/m-Xylene	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
o-Xylene	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	<800 @	<800 @	<800 @	<800 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH241	BH241	BH241	BH241	BH250	BH250
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*5@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	9.00 - 10.00	0.50 - 1.00	1.00 - 2.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262412	19262414	19262417	19262419	19262389	19262390
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	105 @	103 @	109 @	108 @	106 @	106 @
Toluene-d8**	%	TM116	103 @	97.8 @	98.1 @	98.1 @	96.1 @	97.4 @
4-Bromofluorobenzene**	%	TM116	106 @	100 @	103 @	100 @	99.5 @	99 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
Benzene	<9 µg/kg	TM116	<180 @	<180 @	<180 @	<180 @	<180 @	<180 @
Toluene	<7 µg/kg	TM116	<140 @	<140 @	<140 @	<140 @	<140 @	<140 @
Ethylbenzene	<4 µg/kg	TM116	<80 @	<80 @	<80 @	<80 @	<80 @	<80 @
p/m-Xylene	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
o-Xylene	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	<800 @	<800 @	<800 @	<800 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH250	BH250	BH250	BH250	BH250	BH250
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190228-53	190228-53	190228-53	190228-53	190228-53	190228-53
		Lab Sample No.(s)	19262401	19262403	19262404	19262406	19262393	19262394
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	105 @	102 @	124 @	128 @	104 @	107 @
Toluene-d8**	%	TM116	97.8 @	93.7 @	86.2 @	93.4 @	97.6 @	98.6 @
4-Bromofluorobenzene**	%	TM116	97.3 @	80 @	71.3 @	83.2 @	94.4 @	98.6 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
Benzene	<9 µg/kg	TM116	<180 @	<180 @	<180 @	<180 @	<180 @	<180 @
Toluene	<7 µg/kg	TM116	<140 @	<140 @	<140 @	<140 @	<140 @	<140 @
Ethylbenzene	<4 µg/kg	TM116	<80 @	<80 @	<80 @	<80 @	<80 @	<80 @
p/m-Xylene	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
o-Xylene	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 @	<200 @	<200 @
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	<800 @	<800 @	<800 @	<800 @



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5	@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
09/02/19 Customer Sample Ref. BH241 NS Z Depth (m) 0.00 - 0.50 Sample Type MISC_SOLID Date Sampled 30/01/2019 00:00:00 Date Received 07/02/2019 13:04:13 SDG 190228-53 Original Sample 19,262,407 Method Number TM048	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
15/02/2019 Customer Sample Ref. BH241 NS Z Depth (m) 1.00 - 2.00 Sample Type MISC_SOLID Date Sampled 30/01/2019 00:00:00 Date Received 14/02/2019 19:27:38 SDG 190228-53 Original Sample 19,262,410 Method Number TM048	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
08/02/2019 Customer Sample Ref. BH241 NS Z Depth (m) 12.00 - 13.00 Sample Type MISC_SOLID Date Sampled 30/01/2019 00:00:00 Date Received 07/02/2019 12:25:17 SDG 190228-53 Original Sample 19,262,423 Method Number TM048	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
08/02/19 Customer Sample Ref. BH241 NS Z Depth (m) 14.00 - 15.00 Sample Type MISC_SOLID Date Sampled 30/01/2019 00:00:00 Date Received 07/02/2019 12:21:08 SDG 190228-53 Original Sample 19,262,426 Method Number TM048	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8/02/2019 Customer Sample Ref. BH241 NS Z Depth (m) 16.00 - 17.00 Sample Type MISC_SOLID Date Sampled 30/01/2019 00:00:00 Date Received 07/02/2019 12:22:41 SDG 190228-53 Original Sample 19,262,428 Method Number TM048	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH241 NS Z 2.00 - 3.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 13:02:26 190228-53 19,262,411 TM048	08/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH241 NS Z 3.00 - 4.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 19:26:09 190228-53 19,262,412 TM048	18/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH241 NS Z 5.00 - 6.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 19:29:02 190228-53 19,262,414 TM048	15/02/2019	Renata Bozhkov	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH241 NS Z 7.00 - 8.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:45:40 190228-53 19,262,417 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH241 NS Z 9.00 - 10.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:26:50 190228-53 19,262,419 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 0.50 - 1.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:59:15 190228-53 19,262,389 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 1.00 - 2.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:47:46 190228-53 19,262,390 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 11.00 - 12.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:19:41 190228-53 19,262,401 TM048	08/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 13.00 - 14.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 14:56:34 190228-53 19,262,403 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 14.00 - 15.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 14:53:23 190228-53 19,262,404 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 16.00 - 17.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 14:54:47 190228-53 19,262,406 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 2.00 - 3.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 19:30:34 190228-53 19,262,393 TM048	18/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 3.00 - 4.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:54:43 190228-53 19,262,394 TM048	08/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 4.00 - 5.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:56:14 190228-53 19,262,395 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 5.00 - 6.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:43:17 190228-53 19,262,396 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH250 NS Z 8.00 - 9.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:50:33 190228-53 19,262,398 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	30.0
Dry Matter Content (%)	76.9

Case	
SDG	190228-53
Lab Sample Number(s)	19262389
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	4.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.55
ANC to pH 6 (mol/kg)	0.0493
ANC to pH 4 (mol/kg)	0.257

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00304	<0.0005	0.0304	<0.005	0.5	2	25
Barium	0.0239	<0.0002	0.239	<0.002	20	100	300
Cadmium	0.000166	<0.00008	0.00166	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00568	<0.0003	0.0568	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0332	<0.003	0.332	<0.03	0.5	10	30
Nickel	0.00214	<0.0004	0.0214	<0.004	0.4	10	40
Lead	0.000855	<0.0002	0.00855	<0.002	0.5	10	50
Antimony	0.00424	<0.001	0.0424	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.137	<0.001	1.37	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	118	<2	1180	<20	1000	20000	50000
Total Dissolved Solids	291	<5	2910	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.02	<3	50.2	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.86
Conductivity (µS/cm)	395
Temperature (°C)	18.50
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:27:41



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	30.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.9
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262389
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	4.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.55
ANC to pH 6 (mol/kg)	0.0493
ANC to pH 4 (mol/kg)	0.257

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.86
Conductivity (µS/cm)	395
Temperature (°C)	18.50
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 05/04/2019 15:27:41



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.130
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	44.7
Dry Matter Content (%)	69.1

Case	
SDG	190228-53
Lab Sample Number(s)	19262390
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.92
Loss on Ignition (%)	5.90
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0651
ANC to pH 4 (mol/kg)	0.628

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00454	<0.0005	0.0454	<0.005	0.5	2	25
Barium	0.0111	<0.0002	0.111	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00247	<0.0003	0.0247	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0681	<0.003	0.681	<0.03	0.5	10	30
Nickel	0.00182	<0.0004	0.0182	<0.004	0.4	10	40
Lead	0.000537	<0.0002	0.00537	<0.002	0.5	10	50
Antimony	0.00524	<0.001	0.0524	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00548	<0.001	0.0548	<0.01	4	50	200
Chloride	3.8	<2	38	<20	800	15000	25000
Fluoride	0.558	<0.5	5.58	<5	10	150	500
Sulphate (soluble)	29	<2	290	<20	1000	20000	50000
Total Dissolved Solids	185	<5	1850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.1	<3	141	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	229
Temperature (°C)	15.70
Volume Leachant (Litres)	0.860

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:27:41



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.130
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	44.7
Dry Matter Content (%)	69.1

Case	
SDG	190228-53
Lab Sample Number(s)	19262390
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.92
Loss on Ignition (%)	5.90
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0651
ANC to pH 4 (mol/kg)	0.628

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	229
Temperature (°C)	15.70
Volume Leachant (Litres)	0.860

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262393
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.08
Loss on Ignition (%)	8.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.05
ANC to pH 6 (mol/kg)	0.0505
ANC to pH 4 (mol/kg)	0.380

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0083	<0.0005	0.083	<0.005	0.5	2	25
Barium	0.0082	<0.0002	0.082	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0306	<0.003	0.306	<0.03	0.5	10	30
Nickel	0.00151	<0.0004	0.0151	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00222	<0.001	0.0222	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00283	<0.001	0.0283	<0.01	4	50	200
Chloride	2.8	<2	28	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	11.3	<2	113	<20	1000	20000	50000
Total Dissolved Solids	163	<5	1630	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.5	<3	115	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	7.86
Conductivity (µS/cm)	214
Temperature (°C)	18.10
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77.0
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262393
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.08
Loss on Ignition (%)	8.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.05
ANC to pH 6 (mol/kg)	0.0505
ANC to pH 4 (mol/kg)	0.380

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	7.86
Conductivity (µS/cm)	214
Temperature (°C)	18.10
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.121
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	34.2
Dry Matter Content (%)	74.5

Case	
SDG	190228-53
Lab Sample Number(s)	19262394
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.90
Loss on Ignition (%)	6.18
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0808
ANC to pH 4 (mol/kg)	0.542

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00376	<0.0005	0.0376	<0.005	0.5	2	25
Barium	0.00833	<0.0002	0.0833	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000535	<0.0003	0.00535	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.025	<0.003	0.25	<0.03	0.5	10	30
Nickel	0.00162	<0.0004	0.0162	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00184	<0.001	0.0184	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00183	<0.001	0.0183	<0.01	4	50	200
Chloride	5.1	<2	51	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36.4	<2	364	<20	1000	20000	50000
Total Dissolved Solids	205	<5	2050	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.5	<3	115	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.74
Conductivity (µS/cm)	267
Temperature (°C)	18.40
Volume Leachant (Litres)	0.869

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.121
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	34.2
Dry Matter Content (%)	74.5

Case	
SDG	190228-53
Lab Sample Number(s)	19262394
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.90
Loss on Ignition (%)	6.18
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0808
ANC to pH 4 (mol/kg)	0.542

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.74
Conductivity (µS/cm)	267
Temperature (°C)	18.40
Volume Leachant (Litres)	0.869

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.6
Dry Matter Content (%)	83.6

Case	
SDG	190228-53
Lab Sample Number(s)	19262395
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.83
Loss on Ignition (%)	5.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	16.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.50
ANC to pH 6 (mol/kg)	0.0643
ANC to pH 4 (mol/kg)	0.212

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00298	<0.0005	0.0298	<0.005	0.5	2	25
Barium	0.0105	<0.0002	0.105	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00226	<0.0003	0.0226	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0378	<0.003	0.378	<0.03	0.5	10	30
Nickel	0.00215	<0.0004	0.0215	<0.004	0.4	10	40
Lead	0.00129	<0.0002	0.0129	<0.002	0.5	10	50
Antimony	0.0049	<0.001	0.049	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0037	<0.001	0.037	<0.01	4	50	200
Chloride	4.5	<2	45	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	86	<2	860	<20	1000	20000	50000
Total Dissolved Solids	294	<5	2940	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.2	<3	102	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	402
Temperature (°C)	18.50
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.6
Dry Matter Content (%)	83.6

Case	
SDG	190228-53
Lab Sample Number(s)	19262395
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.83
Loss on Ignition (%)	5.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	16.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.50
ANC to pH 6 (mol/kg)	0.0643
ANC to pH 4 (mol/kg)	0.212

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	402
Temperature (°C)	18.50
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.2
Dry Matter Content (%)	81.2

Case	
SDG	190228-53
Lab Sample Number(s)	19262396
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.37
Loss on Ignition (%)	2.40
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.0596
ANC to pH 4 (mol/kg)	0.183

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00347	<0.0005	0.0347	<0.005	0.5	2	25
Barium	0.00685	<0.0002	0.0685	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00221	<0.0003	0.0221	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0343	<0.003	0.343	<0.03	0.5	10	30
Nickel	0.00191	<0.0004	0.0191	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00355	<0.001	0.0355	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00208	<0.001	0.0208	<0.01	4	50	200
Chloride	3.5	<2	35	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	43.9	<2	439	<20	1000	20000	50000
Total Dissolved Solids	211	<5	2110	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.3	<3	103	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	262
Temperature (°C)	16.30
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.111	Natural Moisture Content (%)	23.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81.2
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262396
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.37
Loss on Ignition (%)	2.40
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.0596
ANC to pH 4 (mol/kg)	0.183

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	262
Temperature (°C)	16.30
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.3
Dry Matter Content (%)	83.2

Case	
SDG	190228-53
Lab Sample Number(s)	19262398
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.231
Loss on Ignition (%)	1.94
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.70
ANC to pH 6 (mol/kg)	0.0625
ANC to pH 4 (mol/kg)	0.0957

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00243	<0.0005	0.0243	<0.005	0.5	2	25
Barium	0.0105	<0.0002	0.105	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000988	<0.0003	0.00988	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00631	<0.003	0.0631	<0.03	0.5	10	30
Nickel	0.00169	<0.0004	0.0169	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00378	<0.001	0.0378	<0.01	0.06	0.7	5
Selenium	0.002	<0.001	0.02	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	20.6	<2	206	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	34.5	<2	345	<20	1000	20000	50000
Total Dissolved Solids	170	<5	1700	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	6.31
Conductivity (µS/cm)	219
Temperature (°C)	15.90
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.3
Dry Matter Content (%)	83.2

Case	
SDG	190228-53
Lab Sample Number(s)	19262398
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.231
Loss on Ignition (%)	1.94
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.70
ANC to pH 6 (mol/kg)	0.0625
ANC to pH 4 (mol/kg)	0.0957

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	6.31
Conductivity (µS/cm)	219
Temperature (°C)	15.90
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	18.7
Dry Matter Content (%)	84.2

Case	
SDG	190228-53
Lab Sample Number(s)	19262401
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.307
Loss on Ignition (%)	0.711
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.96
ANC to pH 6 (mol/kg)	0.0409
ANC to pH 4 (mol/kg)	0.0567

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00166	<0.0005	0.0166	<0.005	0.5	2	25
Barium	0.0125	<0.0002	0.125	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00134	<0.001	0.0134	<0.01	0.1	0.5	7
Zinc	0.00418	<0.001	0.0418	<0.01	4	50	200
Chloride	186	<2	1860	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	29.6	<2	296	<20	1000	20000	50000
Total Dissolved Solids	532	<5	5320	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.40
Conductivity (µS/cm)	619
Temperature (°C)	11.90
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)	18.7
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	84.2
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262401
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.307
Loss on Ignition (%)	0.711
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.96
ANC to pH 6 (mol/kg)	0.0409
ANC to pH 4 (mol/kg)	0.0567

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.40
Conductivity (µS/cm)	619
Temperature (°C)	11.90
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262403
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.722
Loss on Ignition (%)	2.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.117
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0679	<0.0002	0.679	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00116	<0.0003	0.0116	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000214	<0.00001	0.000214	<0.0001	0.01	0.2	2
Molybdenum	0.0218	<0.003	0.218	<0.03	0.5	10	30
Nickel	0.00143	<0.0004	0.0143	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00296	<0.001	0.0296	<0.01	0.06	0.7	5
Selenium	0.0304	<0.001	0.304	<0.01	0.1	0.5	7
Zinc	0.00156	<0.001	0.0156	<0.01	4	50	200
Chloride	216	<4	2160	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	65.8	<2	658	<20	1000	20000	50000
Total Dissolved Solids	671	<5	6710	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	7.69
Conductivity (µS/cm)	857
Temperature (°C)	16.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262403
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.722
Loss on Ignition (%)	2.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.117
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	7.69
Conductivity (µS/cm)	857
Temperature (°C)	16.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262404
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.647
Loss on Ignition (%)	2.33
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.31
ANC to pH 6 (mol/kg)	0.186
ANC to pH 4 (mol/kg)	1.46

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0493	<0.0002	0.493	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000804	<0.0003	0.00804	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0251	<0.003	0.251	<0.03	0.5	10	30
Nickel	0.00157	<0.0004	0.0157	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00235	<0.001	0.0235	<0.01	0.06	0.7	5
Selenium	0.0323	<0.001	0.323	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	198	<4	1980	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	89.4	<2	894	<20	1000	20000	50000
Total Dissolved Solids	659	<5	6590	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	6.91
Conductivity (µS/cm)	846
Temperature (°C)	16.70
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262404
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.647
Loss on Ignition (%)	2.33
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.31
ANC to pH 6 (mol/kg)	0.186
ANC to pH 4 (mol/kg)	1.46

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	6.91
Conductivity (µS/cm)	846
Temperature (°C)	16.70
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262406
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.776
Loss on Ignition (%)	2.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.126
ANC to pH 4 (mol/kg)	1.30

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000531	<0.0005	0.00531	<0.005	0.5	2	25
Barium	0.0679	<0.0002	0.679	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000623	<0.0003	0.00623	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000166	<0.00001	0.000166	<0.0001	0.01	0.2	2
Molybdenum	0.022	<0.003	0.22	<0.03	0.5	10	30
Nickel	0.00159	<0.0004	0.0159	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00314	<0.001	0.0314	<0.01	0.06	0.7	5
Selenium	0.0309	<0.001	0.309	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	216	<4	2160	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	63.5	<2	635	<20	1000	20000	50000
Total Dissolved Solids	671	<5	6710	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	6.50
Conductivity (µS/cm)	842
Temperature (°C)	16.70
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262406
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH250
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.776
Loss on Ignition (%)	2.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.126
ANC to pH 4 (mol/kg)	1.30

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	6.50
Conductivity (µS/cm)	842
Temperature (°C)	16.70
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262407
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.33
Loss on Ignition (%)	2.54
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.72
ANC to pH 6 (mol/kg)	0.129
ANC to pH 4 (mol/kg)	1.08

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00714	<0.0005	0.0714	<0.005	0.5	2	25
Barium	0.00751	<0.0002	0.0751	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0423	<0.001	0.423	<0.01	0.5	10	70
Copper	0.0303	<0.0003	0.303	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.017	<0.003	0.17	<0.03	0.5	10	30
Nickel	0.0024	<0.0004	0.024	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00183	<0.001	0.0183	<0.01	0.06	0.7	5
Selenium	0.00768	<0.001	0.0768	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	28.4	<2	284	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.6	<2	416	<20	1000	20000	50000
Total Dissolved Solids	274	<5	2740	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.87	<3	78.7	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	10.87
Conductivity (µS/cm)	393
Temperature (°C)	18.50
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.105	Natural Moisture Content (%)	16.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	86.0
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262407
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.33
Loss on Ignition (%)	2.54
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.72
ANC to pH 6 (mol/kg)	0.129
ANC to pH 4 (mol/kg)	1.08

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	10.87
Conductivity (µS/cm)	393
Temperature (°C)	18.50
Volume Leachant (Litres)	0.885

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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262410
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.59
Loss on Ignition (%)	2.58
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.05
ANC to pH 6 (mol/kg)	0.0351
ANC to pH 4 (mol/kg)	0.130

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00129	<0.0005	0.0129	<0.005	0.5	2	25
Barium	0.00913	<0.0002	0.0913	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00279	<0.0003	0.0279	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0081	<0.003	0.081	<0.03	0.5	10	30
Nickel	0.00124	<0.0004	0.0124	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00367	<0.001	0.0367	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	342	<2	3420	<20	1000	20000	50000
Total Dissolved Solids	523	<5	5230	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.77	<3	47.7	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	7.02
Conductivity (µS/cm)	687
Temperature (°C)	18.60
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262410
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.59
Loss on Ignition (%)	2.58
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.05
ANC to pH 6 (mol/kg)	0.0351
ANC to pH 4 (mol/kg)	0.130

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	7.02
Conductivity (µS/cm)	687
Temperature (°C)	18.60
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262411
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.561
Loss on Ignition (%)	1.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.54
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.0548
ANC to pH 4 (mol/kg)	0.160

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00162	<0.0005	0.0162	<0.005	0.5	2	25
Barium	0.00496	<0.0002	0.0496	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000925	<0.0003	0.00925	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00716	<0.003	0.0716	<0.03	0.5	10	30
Nickel	0.000438	<0.0004	0.00438	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00141	<0.001	0.0141	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	2.9	<2	29	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	48.5	<2	485	<20	1000	20000	50000
Total Dissolved Solids	145	<5	1450	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.12	<3	31.2	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.82
Conductivity (µS/cm)	181
Temperature (°C)	17.50
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262411
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.561
Loss on Ignition (%)	1.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.54
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.0548
ANC to pH 4 (mol/kg)	0.160

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.82
Conductivity (µS/cm)	181
Temperature (°C)	17.50
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262412
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
-	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.03
Loss on Ignition (%)	4.95
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	-
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.40
ANC to pH 6 (mol/kg)	0.0470
ANC to pH 4 (mol/kg)	0.314

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0046	<0.0005	0.046	<0.005	0.5	2	25
Barium	0.00722	<0.0002	0.0722	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0255	<0.003	0.255	<0.03	0.5	10	30
Nickel	0.001	<0.0004	0.01	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00303	<0.001	0.0303	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00247	<0.001	0.0247	<0.01	4	50	200
Chloride	5.6	<2	56	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.2	<2	452	<20	1000	20000	50000
Total Dissolved Solids	168	<5	1680	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.5	<3	85	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.29
Conductivity (µS/cm)	208
Temperature (°C)	16.90
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262412
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.03
Loss on Ignition (%)	4.95
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	-
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.40
ANC to pH 6 (mol/kg)	0.0470
ANC to pH 4 (mol/kg)	0.314

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.29
Conductivity (µS/cm)	208
Temperature (°C)	16.90
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262414
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.57
Loss on Ignition (%)	3.43
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.67
ANC to pH 6 (mol/kg)	0.0547
ANC to pH 4 (mol/kg)	0.163

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00185	<0.0005	0.0185	<0.005	0.5	2	25
Barium	0.00957	<0.0002	0.0957	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0131	<0.003	0.131	<0.03	0.5	10	30
Nickel	0.00179	<0.0004	0.0179	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0039	<0.001	0.039	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00319	<0.001	0.0319	<0.01	4	50	200
Chloride	3.5	<2	35	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	126	<2	1260	<20	1000	20000	50000
Total Dissolved Solids	309	<5	3090	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.47	<3	44.7	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.08
Conductivity (µS/cm)	405
Temperature (°C)	18.60
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.113	Natural Moisture Content (%)	25.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	80.0
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262414
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.57
Loss on Ignition (%)	3.43
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.67
ANC to pH 6 (mol/kg)	0.0547
ANC to pH 4 (mol/kg)	0.163

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.08
Conductivity (µS/cm)	405
Temperature (°C)	18.60
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.8
Dry Matter Content (%)	81.5

Case	
SDG	190228-53
Lab Sample Number(s)	19262417
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.205
Loss on Ignition (%)	0.935
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.60
ANC to pH 6 (mol/kg)	0.0606
ANC to pH 4 (mol/kg)	0.0971

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0044	<0.0005	0.044	<0.005	0.5	2	25
Barium	0.00379	<0.0002	0.0379	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000353	<0.0003	0.00353	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00285	<0.001	0.0285	<0.01	0.06	0.7	5
Selenium	0.00124	<0.001	0.0124	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	16.9	<2	169	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	8.8	<2	88	<20	1000	20000	50000
Total Dissolved Solids	106	<5	1060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.38
Conductivity (µS/cm)	134
Temperature (°C)	17.00
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.8
Dry Matter Content (%)	81.5

Case	
SDG	190228-53
Lab Sample Number(s)	19262417
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.205
Loss on Ignition (%)	0.935
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.60
ANC to pH 6 (mol/kg)	0.0606
ANC to pH 4 (mol/kg)	0.0971

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.38
Conductivity (µS/cm)	134
Temperature (°C)	17.00
Volume Leachant (Litres)	0.879

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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262419
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.274
Loss on Ignition (%)	1.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.08
ANC to pH 6 (mol/kg)	0.0664
ANC to pH 4 (mol/kg)	0.145

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00197	<0.0005	0.0197	<0.005	0.5	2	25
Barium	0.00419	<0.0002	0.0419	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000988	<0.0003	0.00988	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	0.000417	<0.0002	0.00417	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00174	<0.001	0.0174	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	58.8	<2	588	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	9.4	<2	94	<20	1000	20000	50000
Total Dissolved Solids	204	<5	2040	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.59
Conductivity (µS/cm)	263
Temperature (°C)	17.40
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190228-53
Lab Sample Number(s)	19262419
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.274
Loss on Ignition (%)	1.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.08
ANC to pH 6 (mol/kg)	0.0664
ANC to pH 4 (mol/kg)	0.145

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.59
Conductivity (µS/cm)	263
Temperature (°C)	17.40
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.6
Dry Matter Content (%)	90.4

Case	
SDG	190228-53
Lab Sample Number(s)	19262423
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.572
Loss on Ignition (%)	1.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.59
ANC to pH 6 (mol/kg)	0.240
ANC to pH 4 (mol/kg)	1.16

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000936	<0.0005	0.00936	<0.005	0.5	2	25
Barium	0.0554	<0.0002	0.554	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0118	<0.003	0.118	<0.03	0.5	10	30
Nickel	0.000764	<0.0004	0.00764	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00263	<0.001	0.0263	<0.01	0.06	0.7	5
Selenium	0.0271	<0.001	0.271	<0.01	0.1	0.5	7
Zinc	0.002	<0.001	0.02	<0.01	4	50	200
Chloride	177	<2	1770	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	48.6	<2	486	<20	1000	20000	50000
Total Dissolved Solids	534	<5	5340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.50
Conductivity (µS/cm)	703
Temperature (°C)	18.20
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.4
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262423
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.572
Loss on Ignition (%)	1.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.59
ANC to pH 6 (mol/kg)	0.240
ANC to pH 4 (mol/kg)	1.16

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.50
Conductivity (µS/cm)	703
Temperature (°C)	18.20
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:27:41



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.6
Dry Matter Content (%)	89.6

Case	
SDG	190228-53
Lab Sample Number(s)	19262426
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.740
Loss on Ignition (%)	2.38
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.295
ANC to pH 4 (mol/kg)	1.57

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0497	<0.0002	0.497	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00108	<0.0003	0.0108	<0.003	2	50	100
Mercury Dissolved (CVAf)	0.0000108	<0.00001	0.000108	<0.0001	0.01	0.2	2
Molybdenum	0.0235	<0.003	0.235	<0.03	0.5	10	30
Nickel	0.00111	<0.0004	0.0111	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00326	<0.001	0.0326	<0.01	0.06	0.7	5
Selenium	0.0339	<0.001	0.339	<0.01	0.1	0.5	7
Zinc	0.00107	<0.001	0.0107	<0.01	4	50	200
Chloride	165	<2	1650	<20	800	15000	25000
Fluoride	0.515	<0.5	5.15	<5	10	150	500
Sulphate (soluble)	62.2	<2	622	<20	1000	20000	50000
Total Dissolved Solids	497	<5	4970	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	633
Temperature (°C)	15.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:27:41



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.6
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262426
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.740
Loss on Ignition (%)	2.38
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.295
ANC to pH 4 (mol/kg)	1.57

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	633
Temperature (°C)	15.40
Volume Leachant (Litres)	0.890

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 05/04/2019 15:27:41



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.45
Dry Matter Content (%)	92.2

Case	
SDG	190228-53
Lab Sample Number(s)	19262428
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.773
Loss on Ignition (%)	3.38
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.51
ANC to pH 6 (mol/kg)	0.130
ANC to pH 4 (mol/kg)	1.66

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000556	<0.0005	0.00556	<0.005	0.5	2	25
Barium	0.0441	<0.0002	0.441	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00161	<0.001	0.0161	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0146	<0.003	0.146	<0.03	0.5	10	30
Nickel	0.000625	<0.0004	0.00625	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00233	<0.001	0.0233	<0.01	0.06	0.7	5
Selenium	0.0195	<0.001	0.195	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	96.3	<2	963	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	33	<2	330	<20	1000	20000	50000
Total Dissolved Solids	298	<5	2980	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.57
Conductivity (µS/cm)	384
Temperature (°C)	16.30
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 05/04/2019 15:27:41



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.45
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.2
Particle Size <4mm	>95%		

Case	
SDG	190228-53
Lab Sample Number(s)	19262428
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH241
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.773
Loss on Ignition (%)	3.38
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.51
ANC to pH 6 (mol/kg)	0.130
ANC to pH 4 (mol/kg)	1.66

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.57
Conductivity (µS/cm)	384
Temperature (°C)	16.30
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 05/04/2019 15:27:41



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19262407	19262410	19262411	19262412	19262414	19262417	19262419	19262423	19262426	19262428
	BH241	BH241	BH241	BH241	BH241	BH241	BH241	BH241	BH241	BH241
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	0.00 - 0.50	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	9.00 - 10.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00
	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID
ANC at pH4 and ANC at pH 6	18-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019	19-Feb-2019
Anions by Kone (w)	20-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	09-Feb-2019	15-Feb-2019	08-Feb-2019	18-Feb-2019	15-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019
CEN 10:1 Leachate (1 Stage)	15-Feb-2019	18-Feb-2019	15-Feb-2019	18-Feb-2019	18-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
CEN Readings	18-Feb-2019	19-Feb-2019	17-Feb-2019	19-Feb-2019	19-Feb-2019	16-Feb-2019	17-Feb-2019	17-Feb-2019	16-Feb-2019	16-Feb-2019
Coronene	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Dissolved Metals by ICP-MS	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019
Dissolved Organic/Inorganic Carbon	21-Feb-2019	22-Feb-2019	21-Feb-2019	22-Feb-2019	22-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	19-Feb-2019	21-Feb-2019
EPH CWG (Aliphatic) GC (S)	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	21-Feb-2019	19-Feb-2019
EPH CWG (Aromatic) GC (S)	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	21-Feb-2019	19-Feb-2019
Fluoride	18-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
GRO by GC-FID (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
Hexavalent Chromium (s)	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Loss on Ignition in soils	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Mercury Dissolved	18-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Metals in solid samples by OES	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Mineral Oil	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
PAH 16 & 17 Calc	26-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
PAH by GCMS	22-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	20-Feb-2019
PCBs by GCMS	19-Feb-2019	19-Feb-2019	19-Feb-2019		19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
pH	15-Feb-2019	17-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Phenols by HPLC (S)	22-Feb-2019	22-Feb-2019	22-Feb-2019	23-Feb-2019	22-Feb-2019	23-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019
Phenols by HPLC (W)	23-Feb-2019	22-Feb-2019	23-Feb-2019	22-Feb-2019	22-Feb-2019	25-Feb-2019	23-Feb-2019	23-Feb-2019	25-Feb-2019	25-Feb-2019
Sample description	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Total Dissolved Solids	18-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Total Organic Carbon	20-Feb-2019	20-Feb-2019	21-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
TPH CWG GC (S)	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
VOC MS (S)	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19262389	19262390	19262393	19262394	19262395	19262396	19262398	19262401	19262403	19262404
	BH250	BH250	BH250	BH250	BH250	BH250	BH250	BH250	BH250	BH250
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00
	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID
ANC at pH4 and ANC at pH 6	19-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Anions by Kone (w)	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	08-Feb-2019	08-Feb-2019	18-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	17-Feb-2019	17-Feb-2019
CEN 10:1 Leachate (1 Stage)	15-Feb-2019	15-Feb-2019	18-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019
CEN Readings	18-Feb-2019	16-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	18-Feb-2019	18-Feb-2019
Coronene	18-Feb-2019	19-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019
Dissolved Metals by ICP-MS	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Dissolved Organic/Inorganic Carbon	20-Feb-2019	20-Feb-2019	22-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019
EPH CWG (Aliphatic) GC (S)	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019
EPH CWG (Aromatic) GC (S)	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019
Fluoride	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019
GRO by GC-FID (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019
Hexavalent Chromium (s)	20-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Loss on Ignition in soils	19-Feb-2019	18-Feb-2019	17-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	17-Feb-2019	17-Feb-2019
Mercury Dissolved	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019
Metals in solid samples by OES	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Mineral Oil	18-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
PAH 16 & 17 Calc	21-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019
PAH by GCMS	18-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
PCBs by GCMS	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
pH	17-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019
Phenols by HPLC (S)	23-Feb-2019	22-Feb-2019	22-Feb-2019	23-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019
Phenols by HPLC (W)	23-Feb-2019	25-Feb-2019	22-Feb-2019	23-Feb-2019	23-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	23-Feb-2019	23-Feb-2019
Sample description	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Total Dissolved Solids	18-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019
Total Organic Carbon	20-Feb-2019	18-Feb-2019	17-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019	17-Feb-2019	17-Feb-2019
TPH CWG GC (S)	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019
VOC MS (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)	19262406
Customer Sample Ref.	BH250
AGS Ref.	
Depth	16.00 - 17.00
Type	MISC_SOLID

ANC at pH4 and ANC at pH 6	19-Feb-2019
Anions by Kone (w)	21-Feb-2019
Asbestos ID in Solid Samples	17-Feb-2019
CEN 10:1 Leachate (1 Stage)	17-Feb-2019
CEN Readings	18-Feb-2019
Coronene	19-Feb-2019
Dissolved Metals by ICP-MS	19-Feb-2019
Dissolved Organic/Inorganic Carbon	21-Feb-2019
EPH CWG (Aliphatic) GC (S)	20-Feb-2019
EPH CWG (Aromatic) GC (S)	19-Feb-2019
Fluoride	19-Feb-2019
GRO by GC-FID (S)	21-Feb-2019
Hexavalent Chromium (s)	20-Feb-2019
Loss on Ignition in soils	17-Feb-2019
Mercury Dissolved	19-Feb-2019
Metals in solid samples by OES	19-Feb-2019
Mineral Oil	19-Feb-2019
PAH 16 & 17 Calc	21-Feb-2019
PAH by GCMS	20-Feb-2019
PCBs by GCMS	19-Feb-2019
pH	17-Feb-2019
Phenols by HPLC (S)	22-Feb-2019
Phenols by HPLC (W)	23-Feb-2019
Sample description	14-Feb-2019
Total Dissolved Solids	19-Feb-2019
Total Organic Carbon	17-Feb-2019
TPH CWG GC (S)	21-Feb-2019
VOC MS (S)	19-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

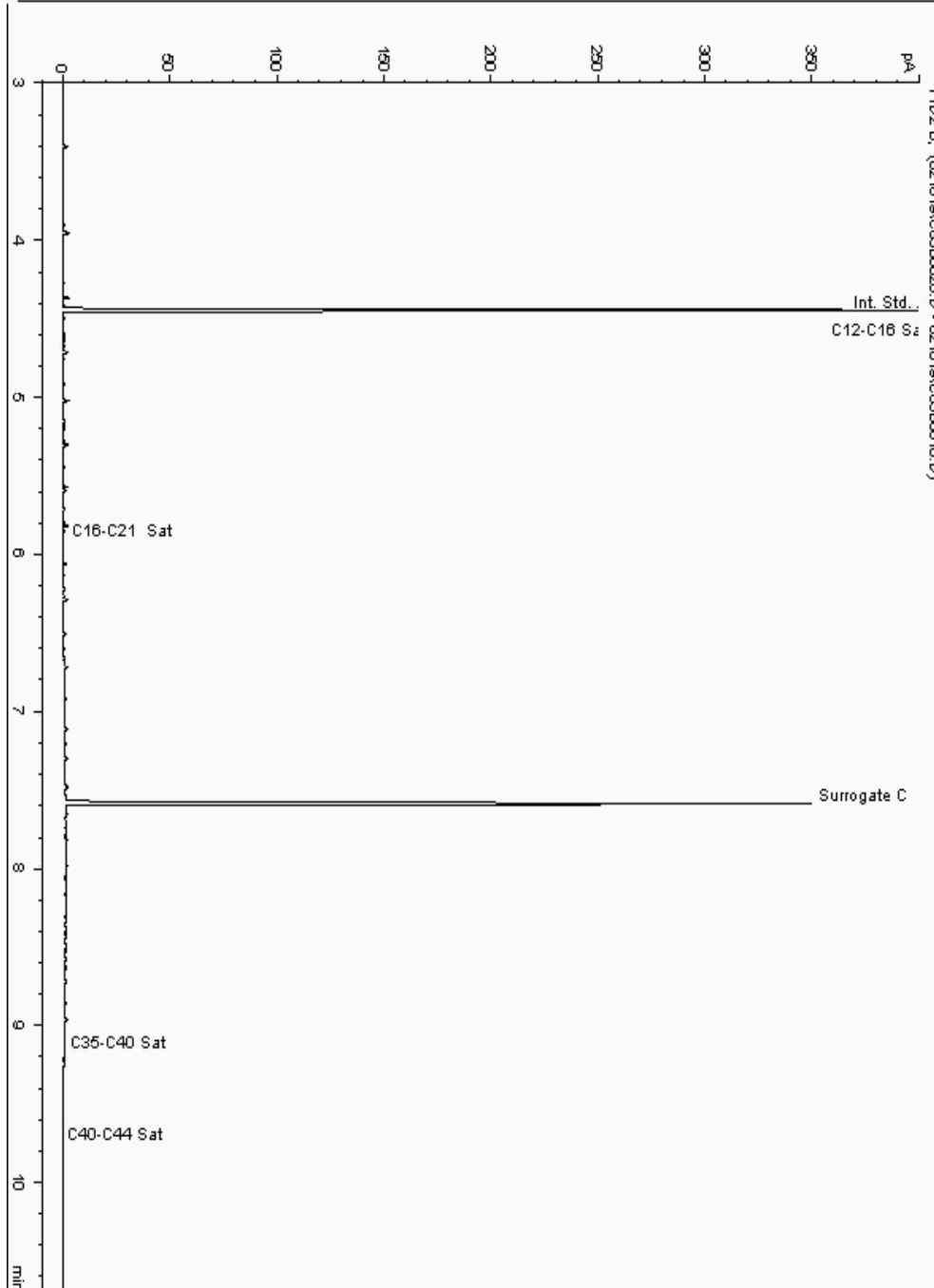
Analysis: EPH CWG (Aliphatic) GC (S)
19351742

Sample No :
Sample ID : BH241

19,351,742Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112789-
Date Acquired : 18/02/2019 18:49:06 PM
Units : ppb
Dilution: BH241[16.00 - 17.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

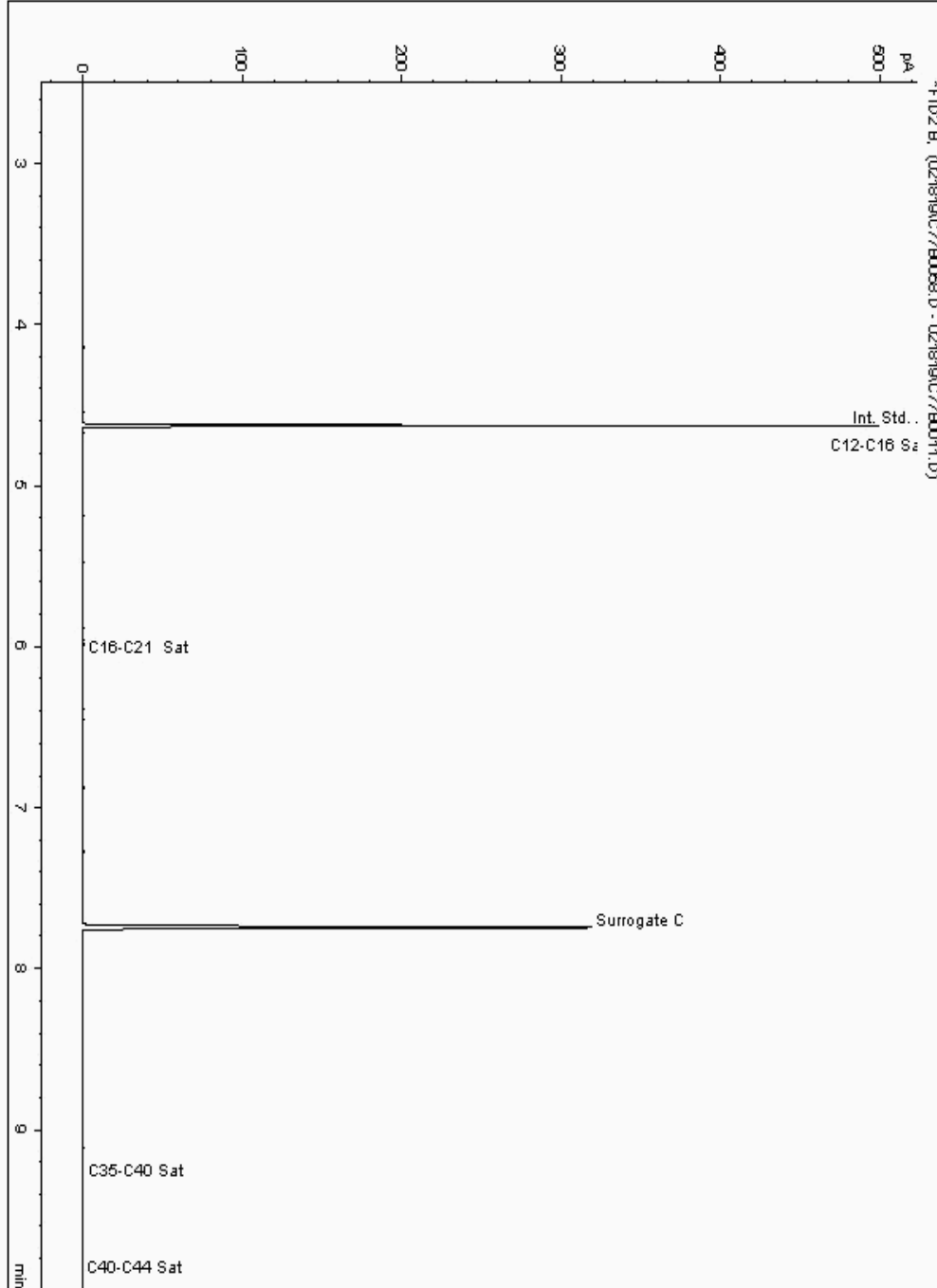
Analysis: EPH CWG (Aliphatic) GC (S)
19351812

Sample No :
Sample ID : BH250

19,351,812Depth :8.00 - 9.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112388-
Date Acquired : 2/19/2019 7:01:21 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

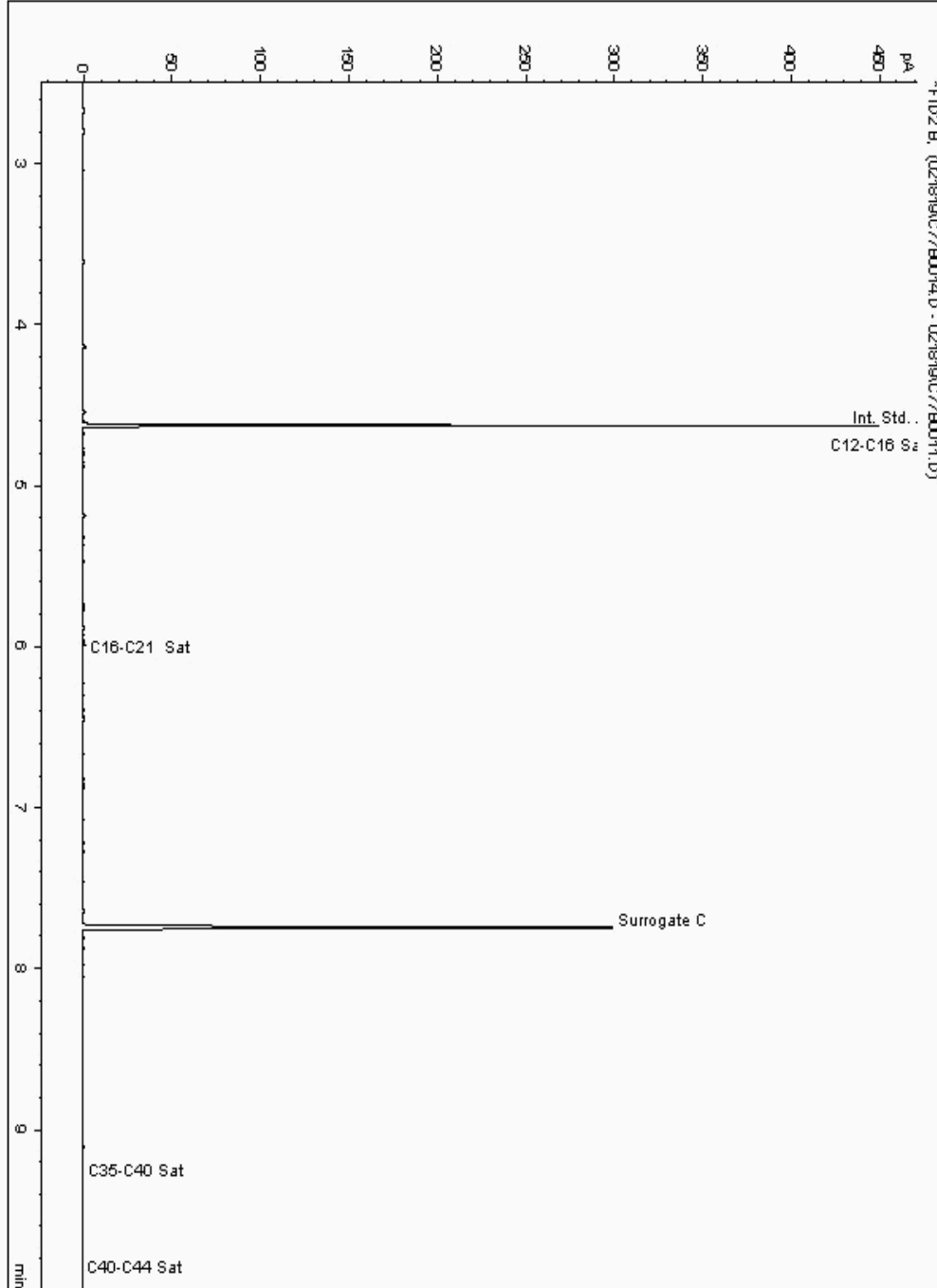
Analysis: EPH CWG (Aliphatic) GC (S)
19351862

Sample No :
Sample ID : BH250

19,351,862Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112460-
Date Acquired : 2/19/2019 1:42:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

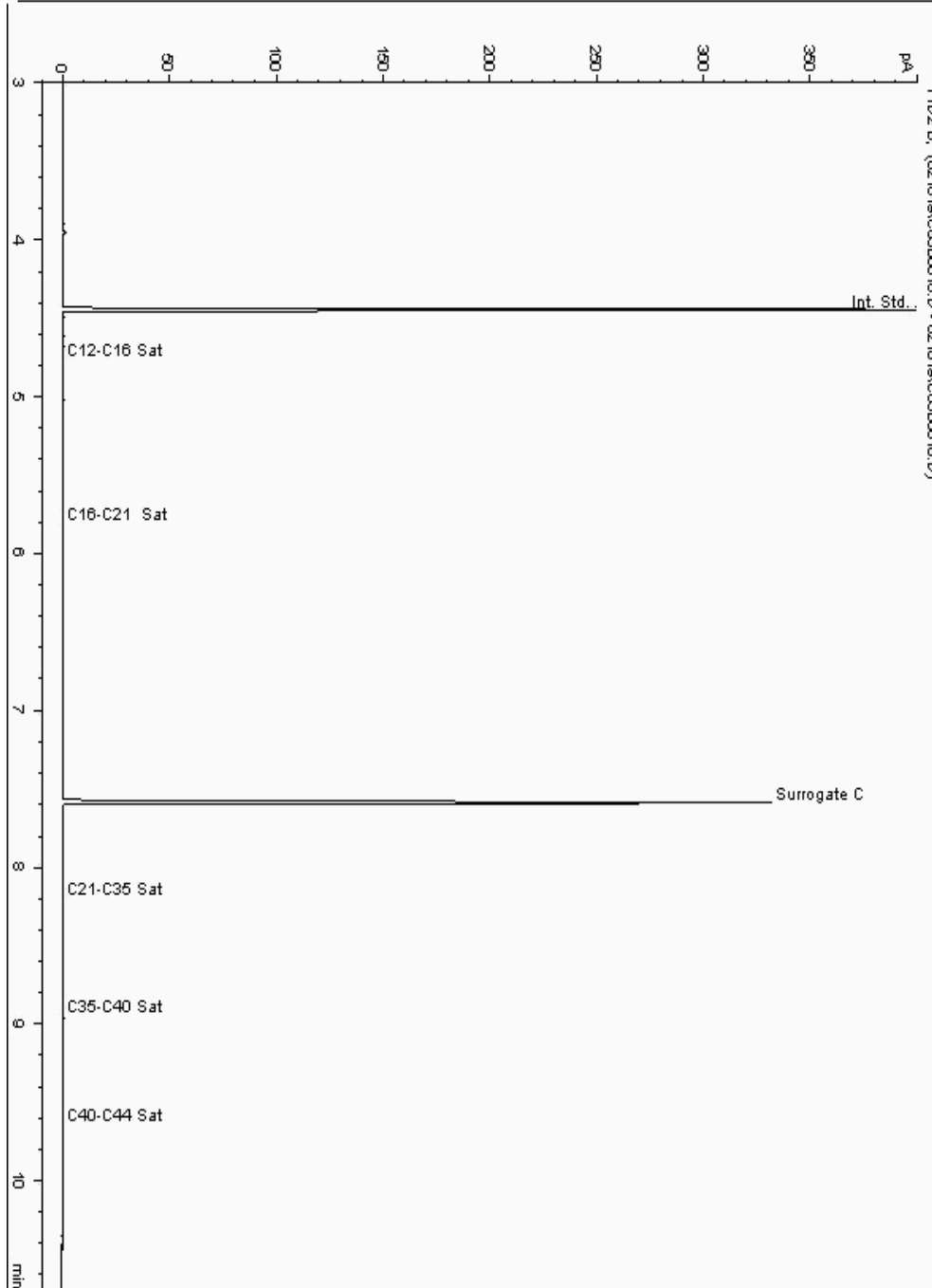
Analysis: EPH CWG (Aliphatic) GC (S)
19351913

Sample No :
Sample ID : BH250

19,351,913 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112881-
Date Acquired : 18/02/2019 15:15:34 PM
Units : ppb
Dilution: BH250[11.00 - 12.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

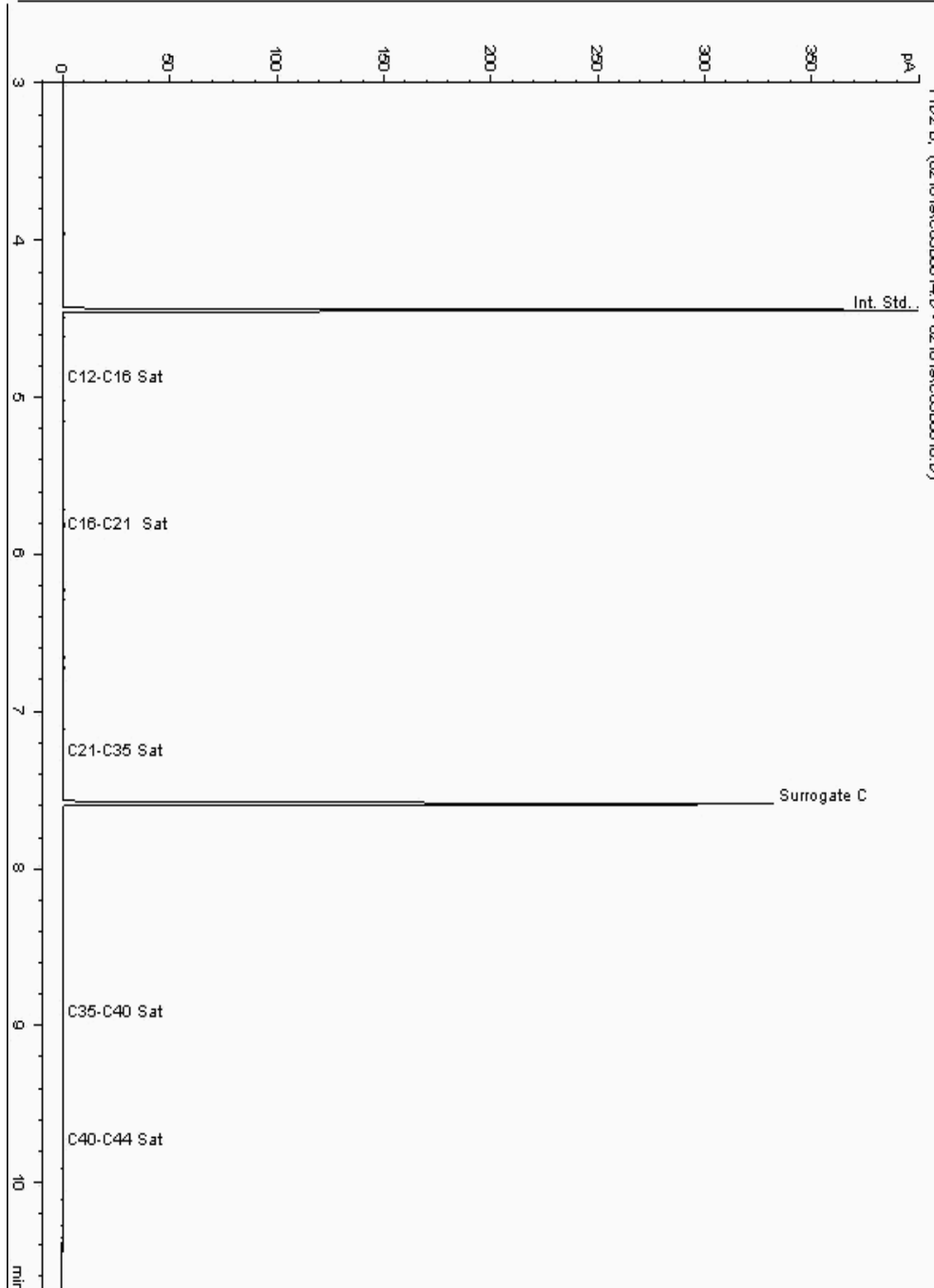
Analysis: EPH CWG (Aliphatic) GC (S)
19351951

Sample No :
Sample ID : BH241

19,351,951 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112690-
Date Acquired : 18/02/2019 14:34:33 PM
Units : ppb
Dilution: BH241[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

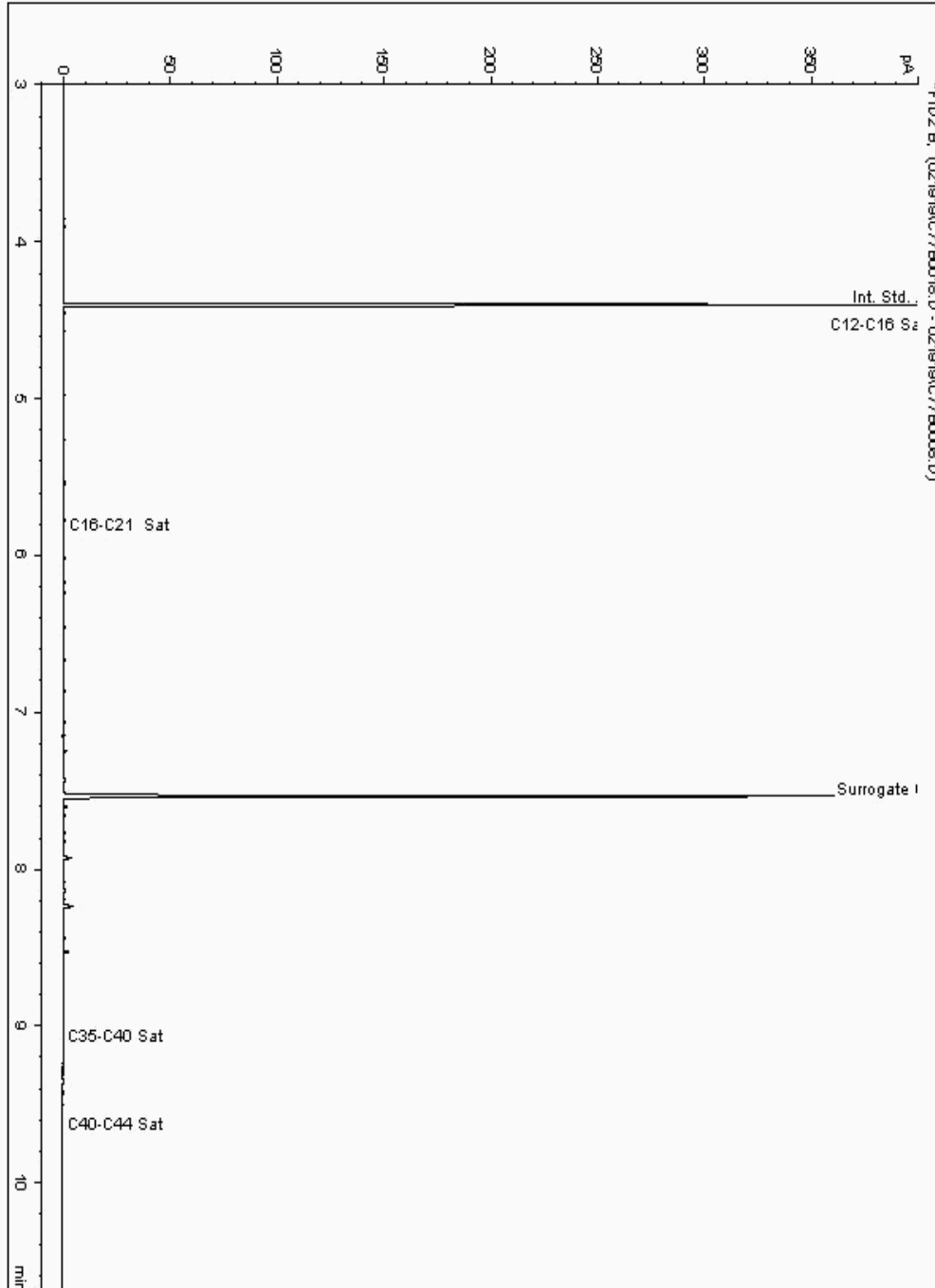
Analysis: EPH CWG (Aliphatic) GC (S)
19352164

Sample No :
Sample ID : BH250

19,352,164Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112203-
Date Acquired : 19/02/2019 15:25:35 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

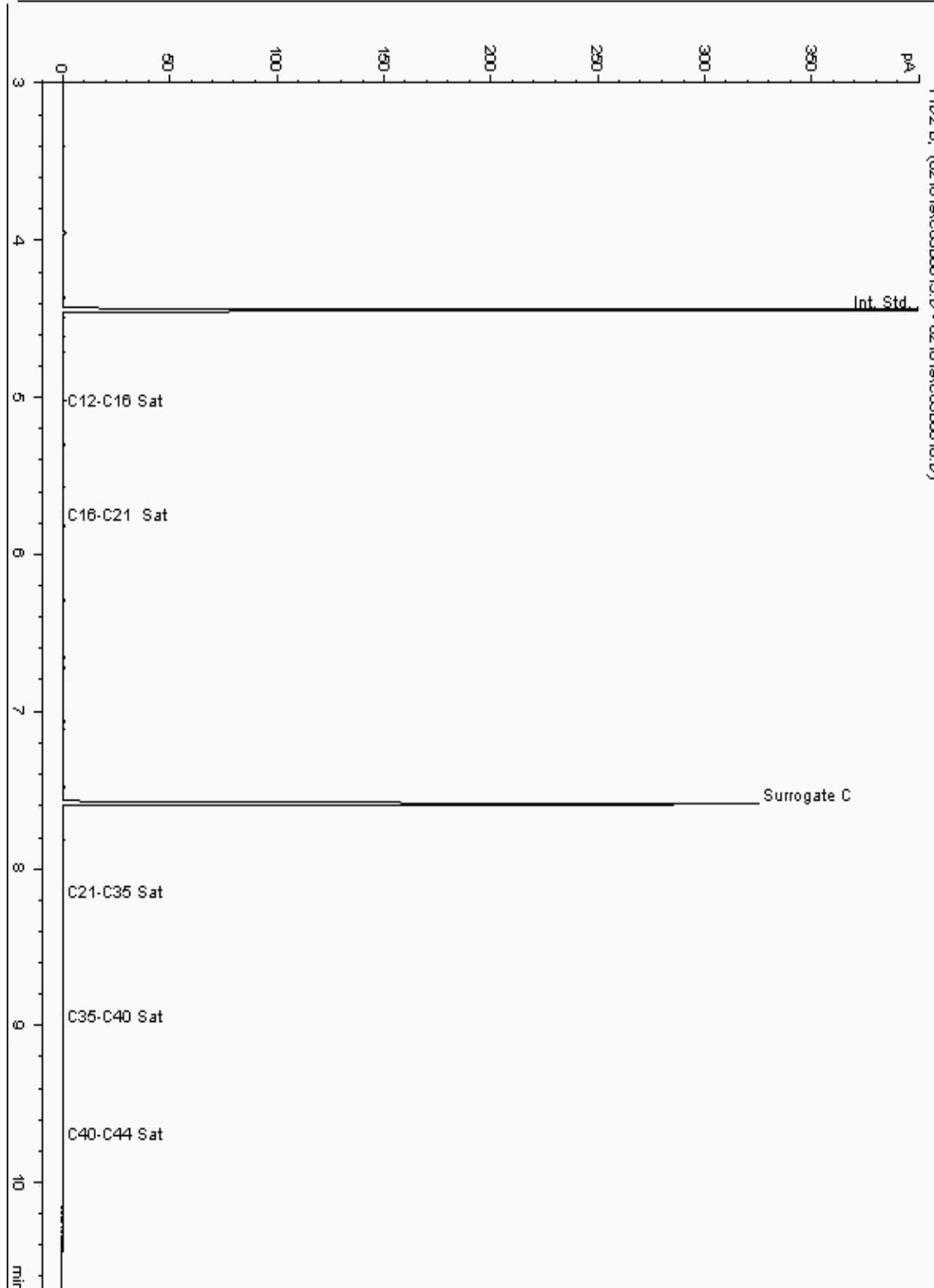
Analysis: EPH CWG (Aliphatic) GC (S)
19352227

Sample No :
Sample ID : BH250

19,352,227Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112411-
Date Acquired : 18/02/2019 14:13:56 PM
Units : ppb
Dilution: BH250[13.00 - 14.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

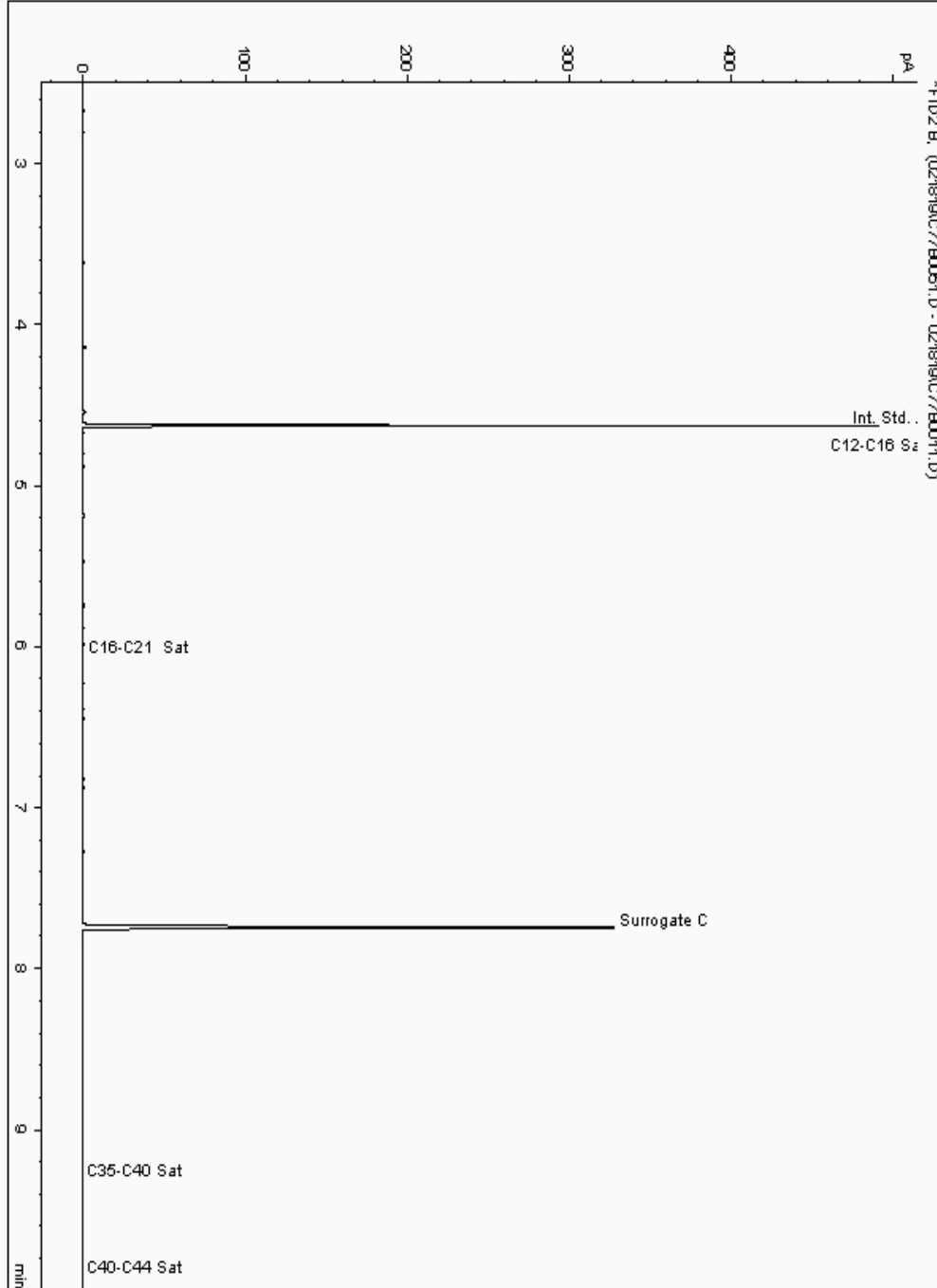
Analysis: EPH CWG (Aliphatic) GC (S)
19352346

Sample No :
Sample ID : BH250

19,352,346 Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112435-
Date Acquired : 2/19/2019 4:57:39 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

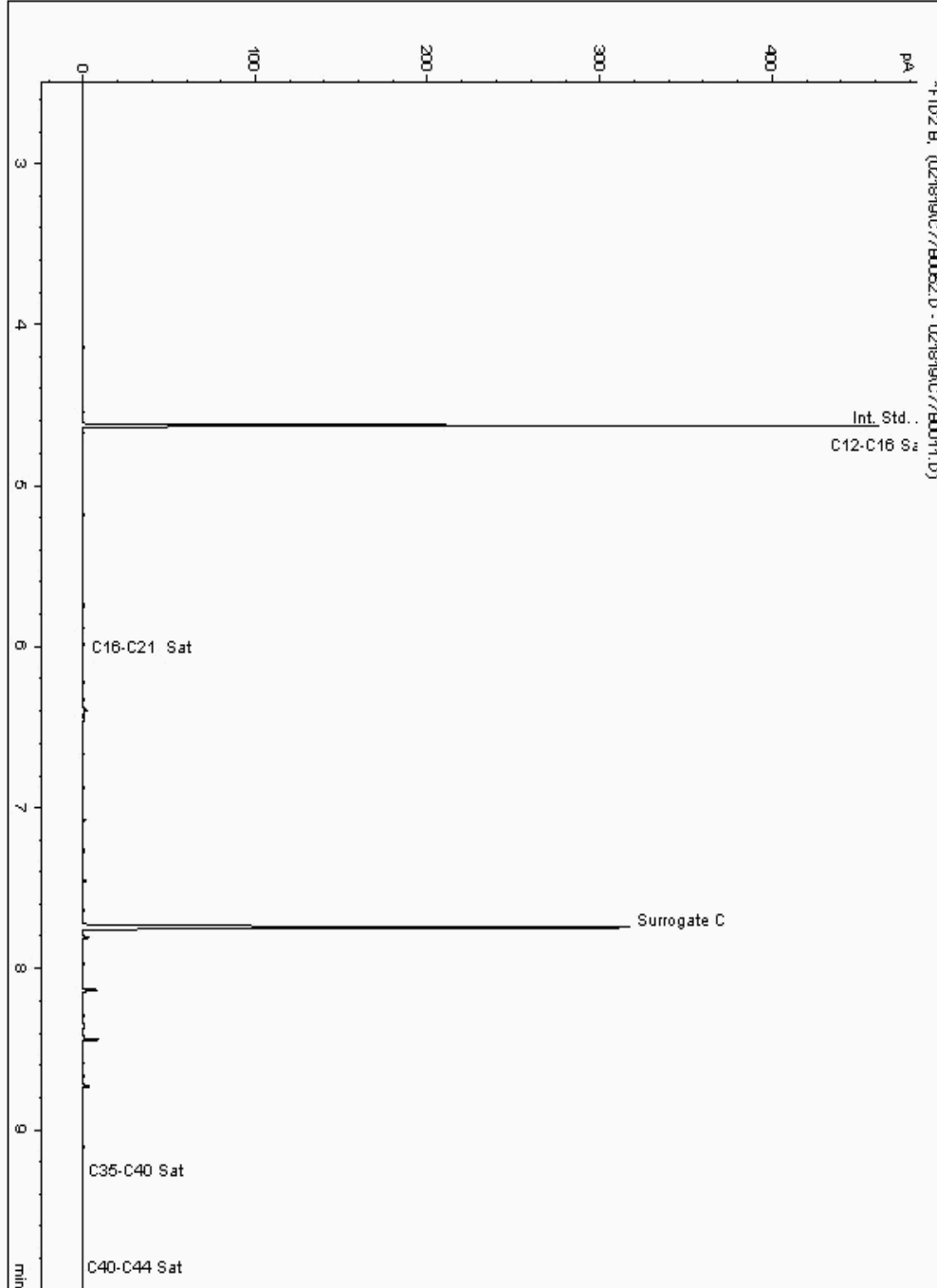
Analysis: EPH CWG (Aliphatic) GC (S)
19352472

Sample No :
Sample ID : BH241

19,352,472 Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112602-
Date Acquired : 2/19/2019 5:17:40 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

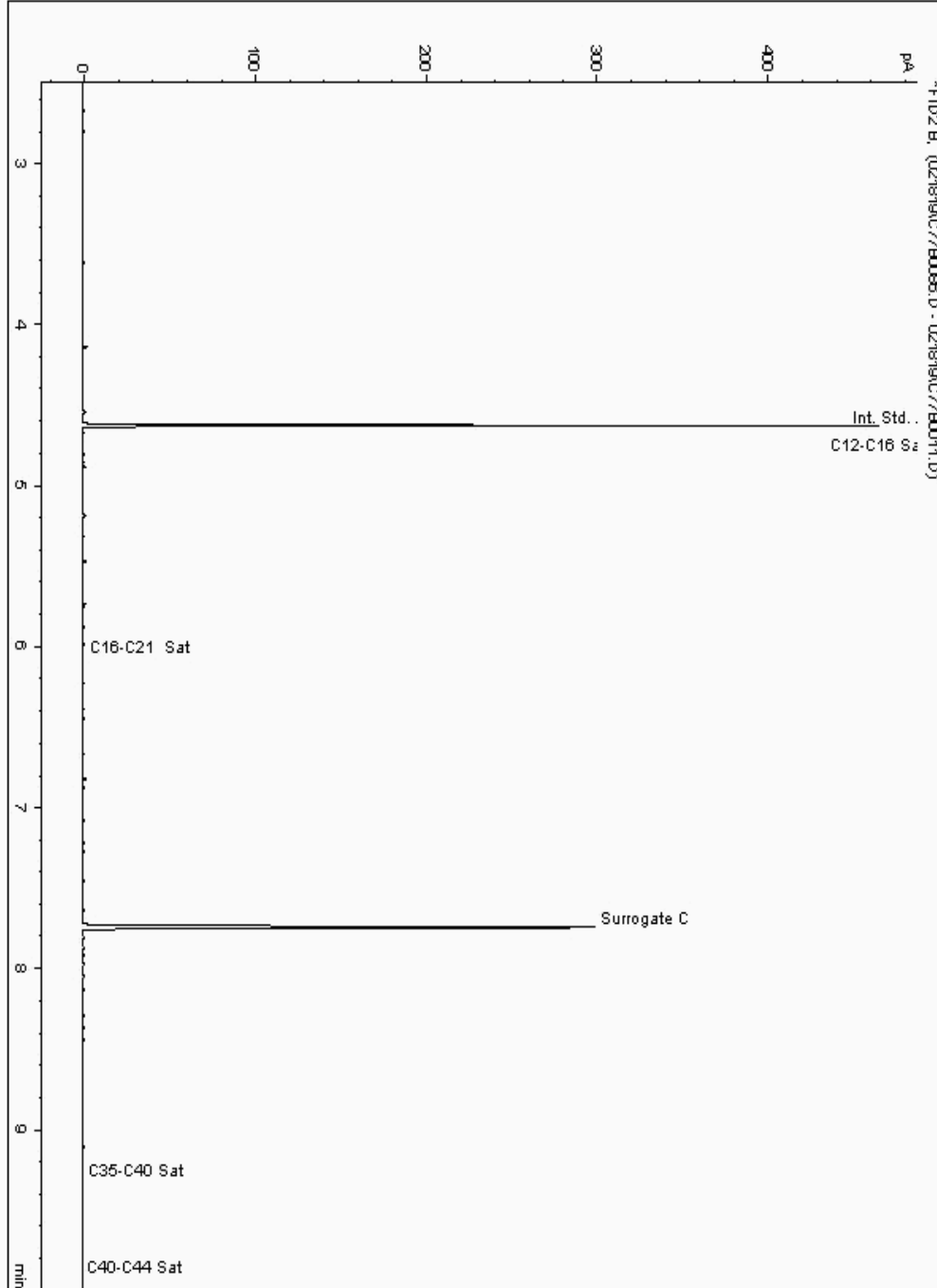
Analysis: EPH CWG (Aliphatic) GC (S)
19352489

Sample No :
Sample ID : BH241

19,352,489Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112763-
Date Acquired : 2/20/2019 2:20:13 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

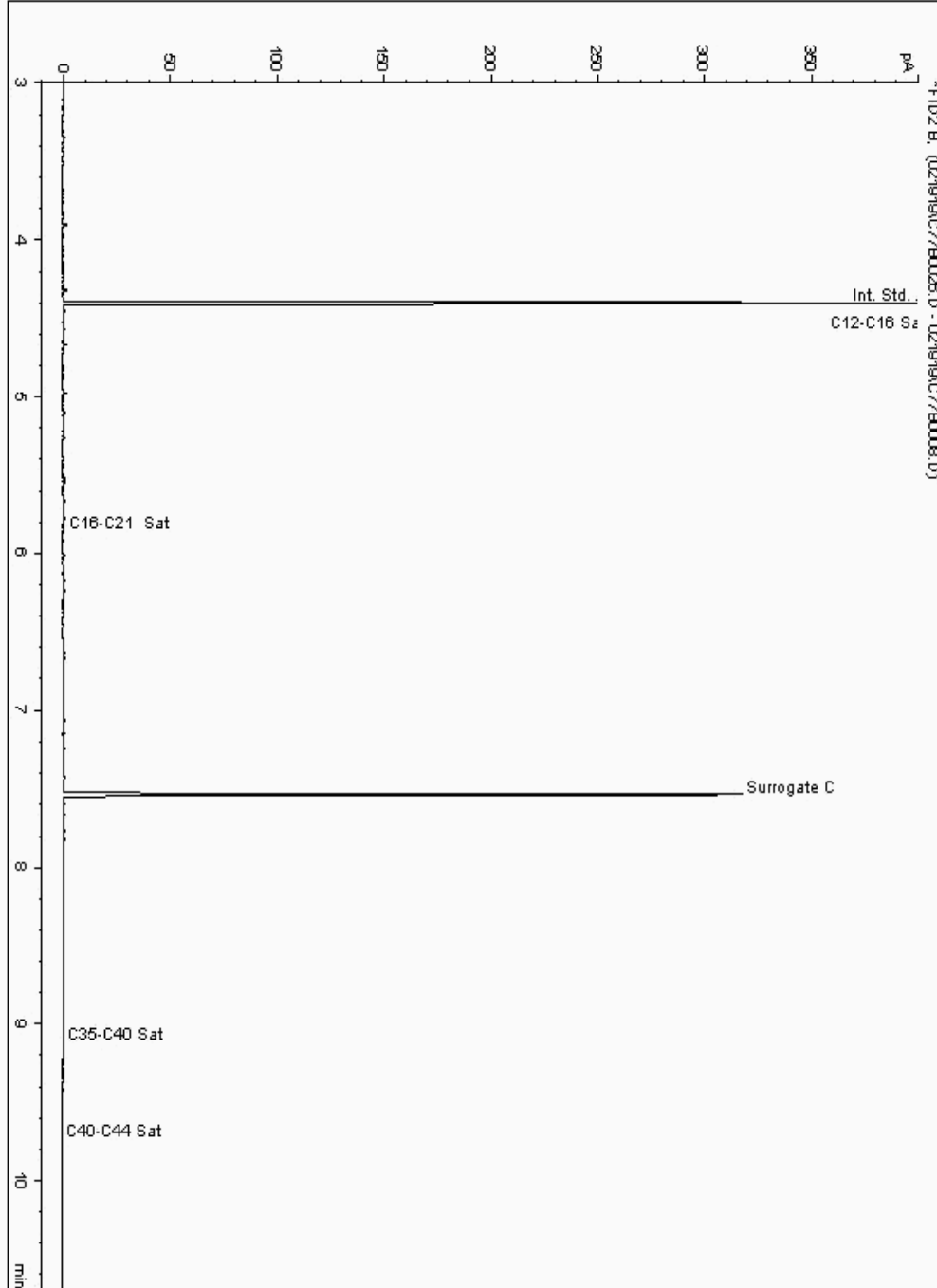
Analysis: EPH CWG (Aliphatic) GC (S)
19352726

Sample No :
Sample ID : BH241

19,352,726 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112740-
Date Acquired : 19/02/2019 18:07:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

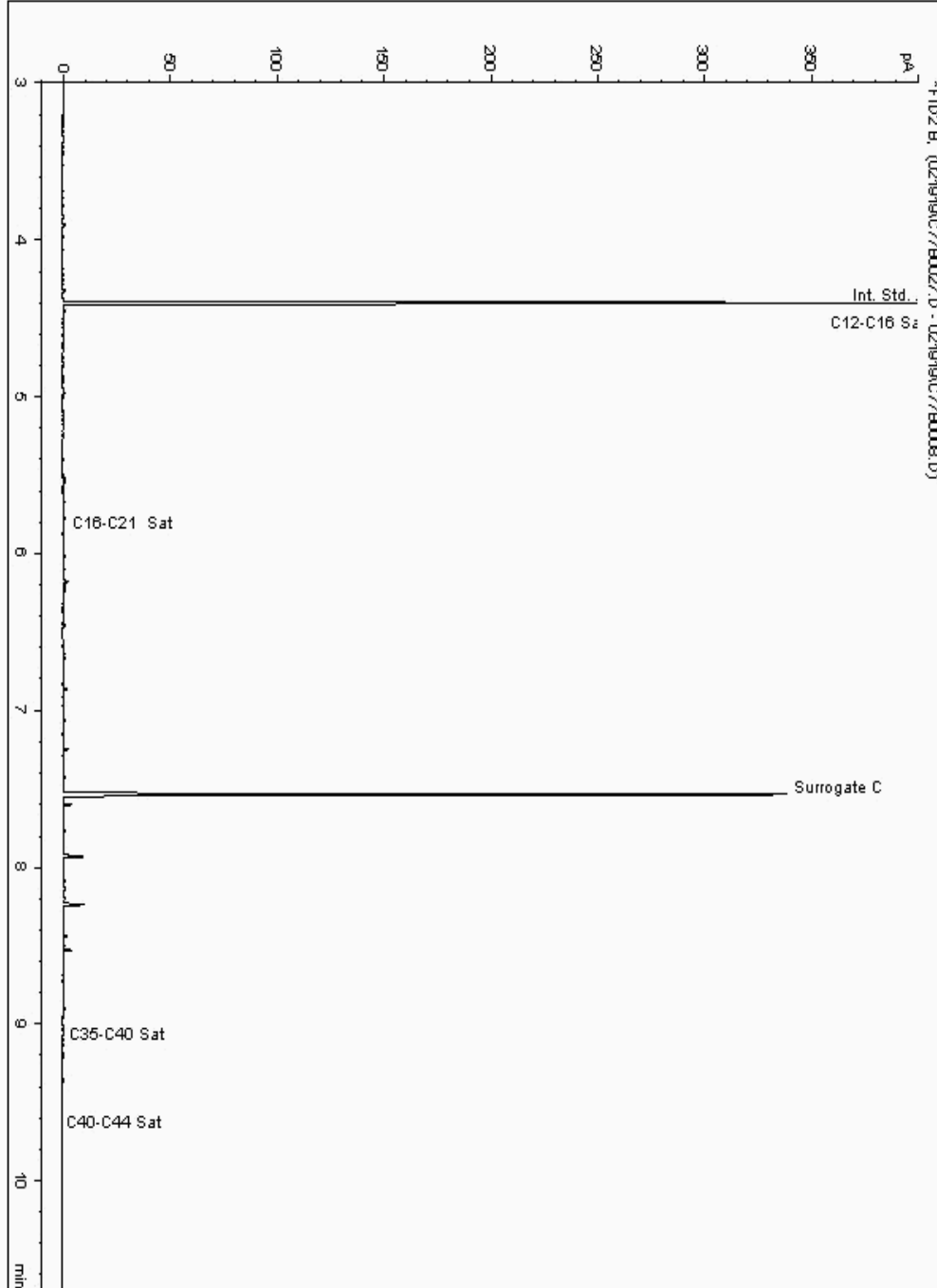
Analysis: EPH CWG (Aliphatic) GC (S)
19352797

Sample No :
Sample ID : BH250

19,352,797Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112313-
Date Acquired : 19/02/2019 18:27:19 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

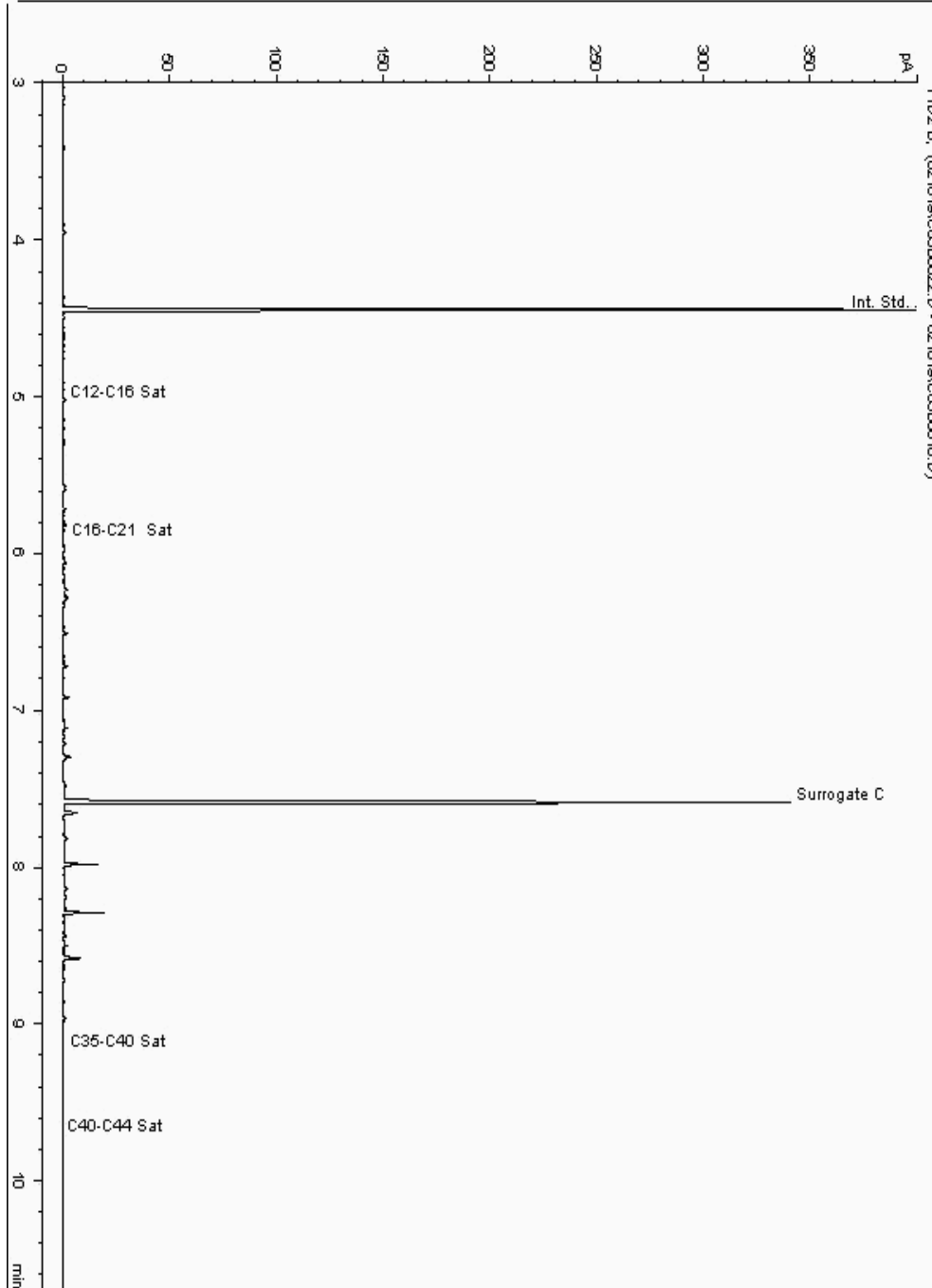
Analysis: EPH CWG (Aliphatic) GC (S)
19352951

Sample No :
Sample ID : BH250

19,352,951 Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112279-
Date Acquired : 18/02/2019 17:10:34 PM
Units : ppb
Dilution: BH250[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

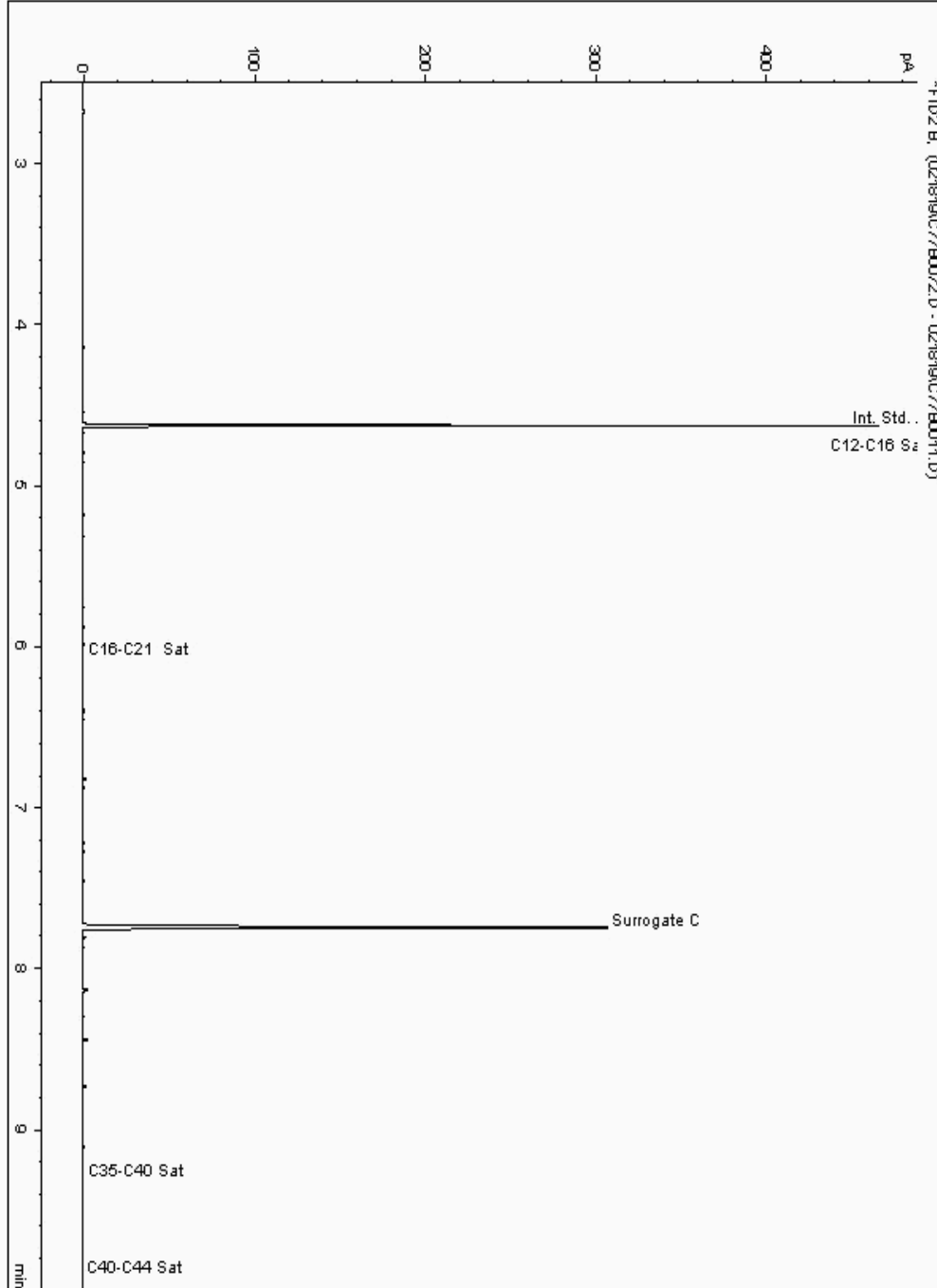
Analysis: EPH CWG (Aliphatic) GC (S)
19353119

Sample No :
Sample ID : BH241

19,353,119Depth :5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112635-
Date Acquired : 2/20/2019 9:55:04 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

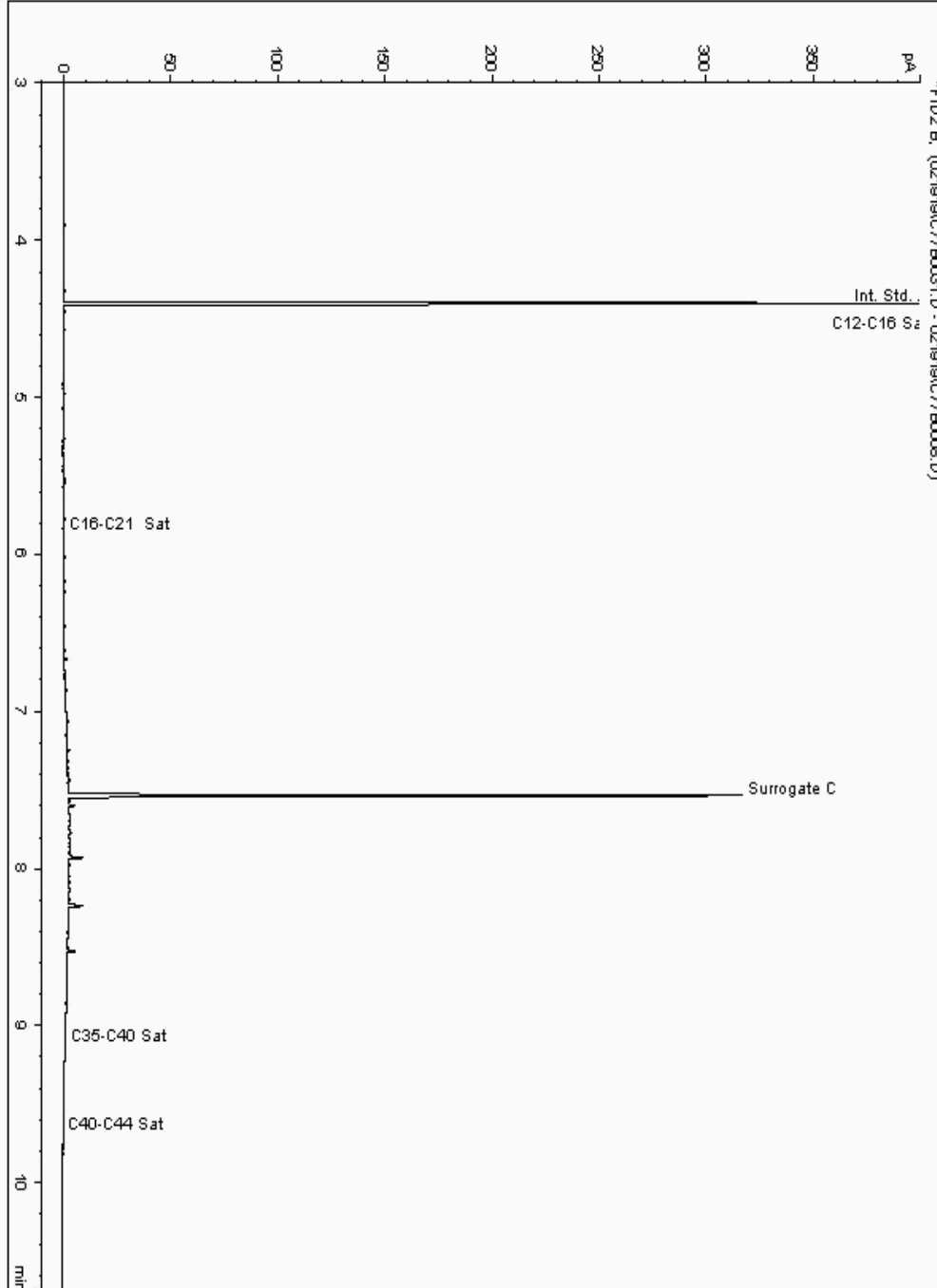
Analysis: EPH CWG (Aliphatic) GC (S)
19353365

Sample No :
Sample ID : BH250

19,353,365 Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112361-
Date Acquired : 19/02/2019 19:39:55 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

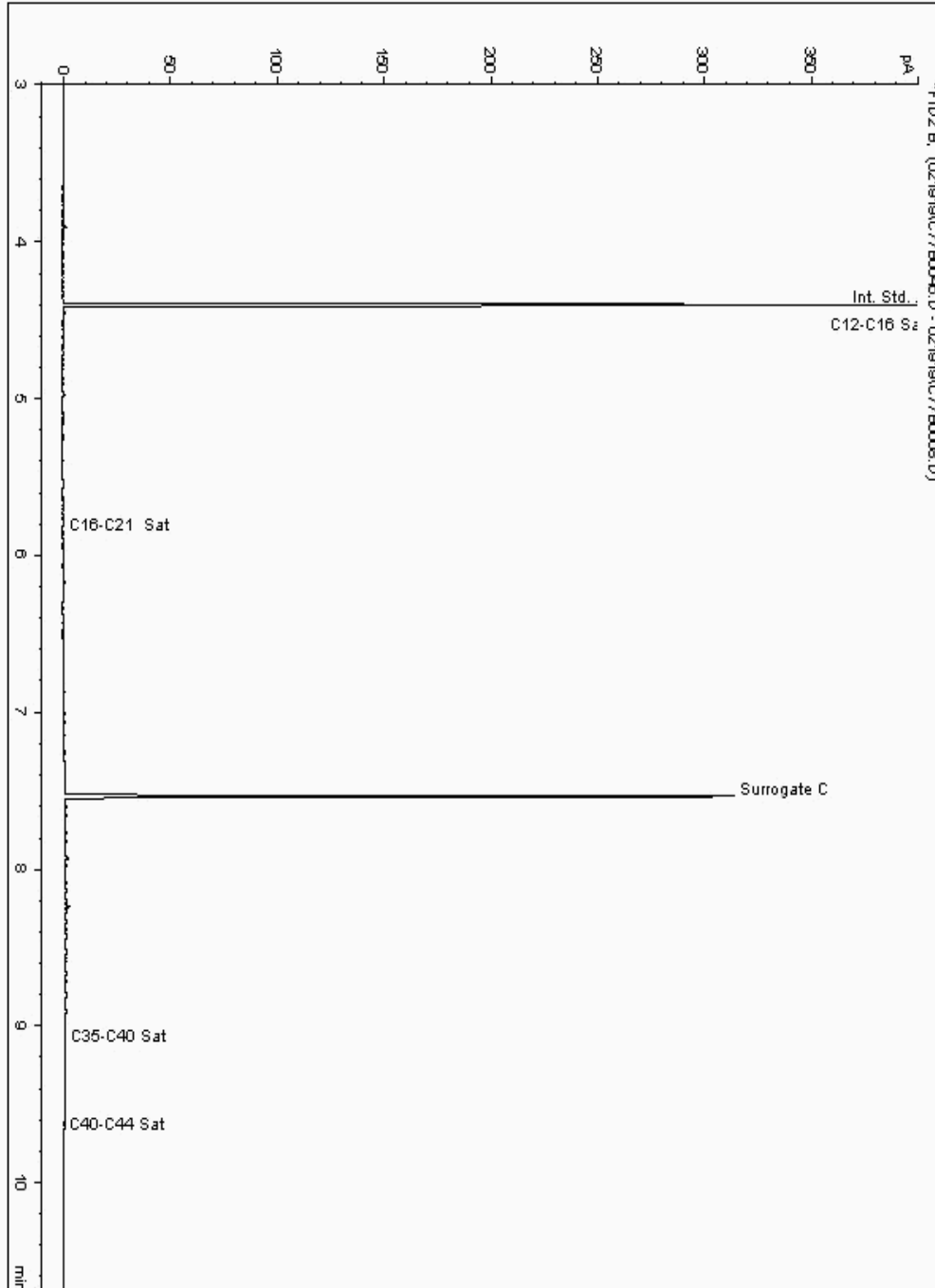
Analysis: EPH CWG (Aliphatic) GC (S)
19353403

Sample No :
Sample ID : BH250

19,353,403 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112335-
Date Acquired : 19/02/2019 23:59:14 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

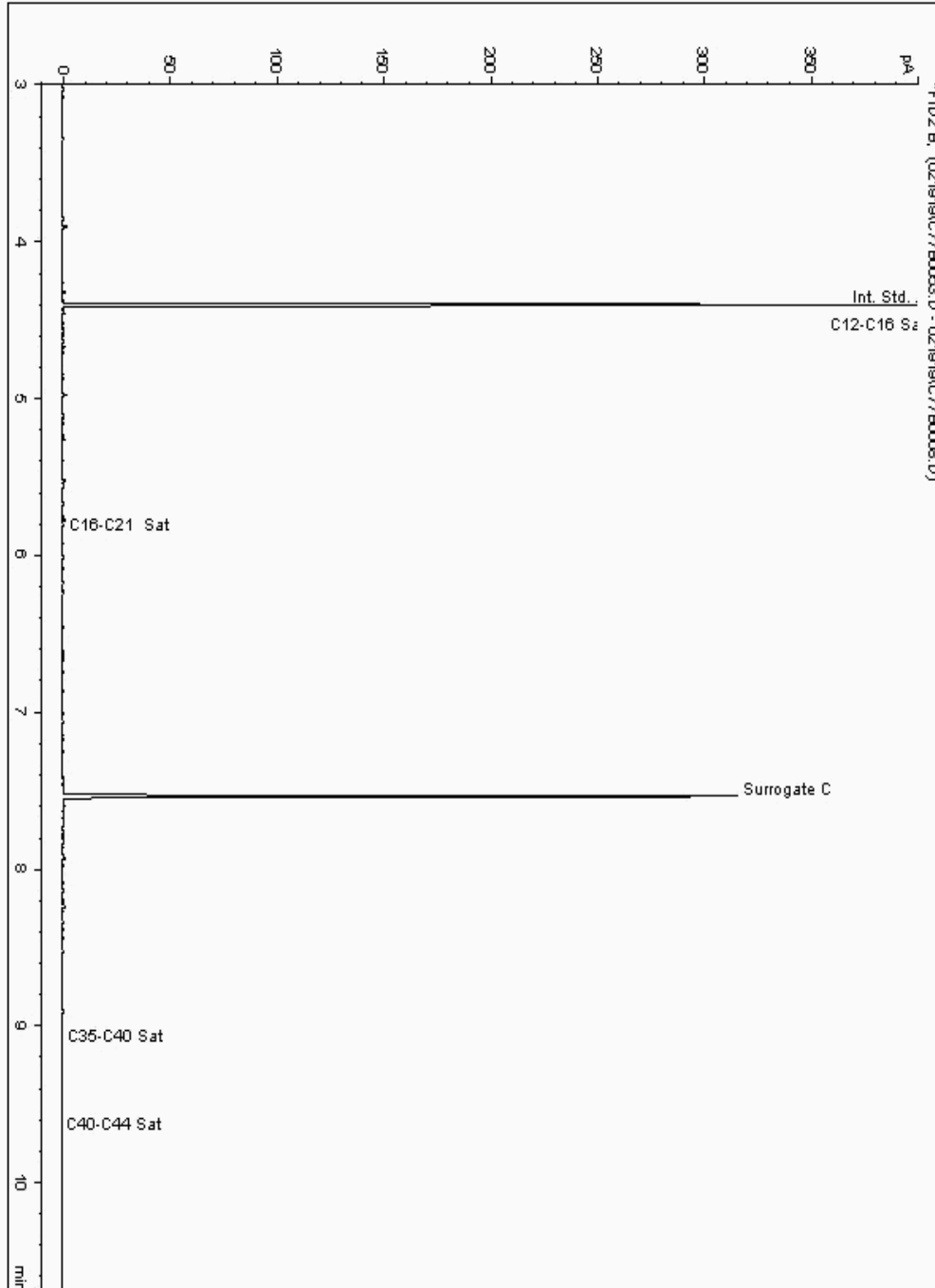
Analysis: EPH CWG (Aliphatic) GC (S)
19353444

Sample No :
Sample ID : BH241

19,353,444Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112490-
Date Acquired : 20/02/2019 02:24:37 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

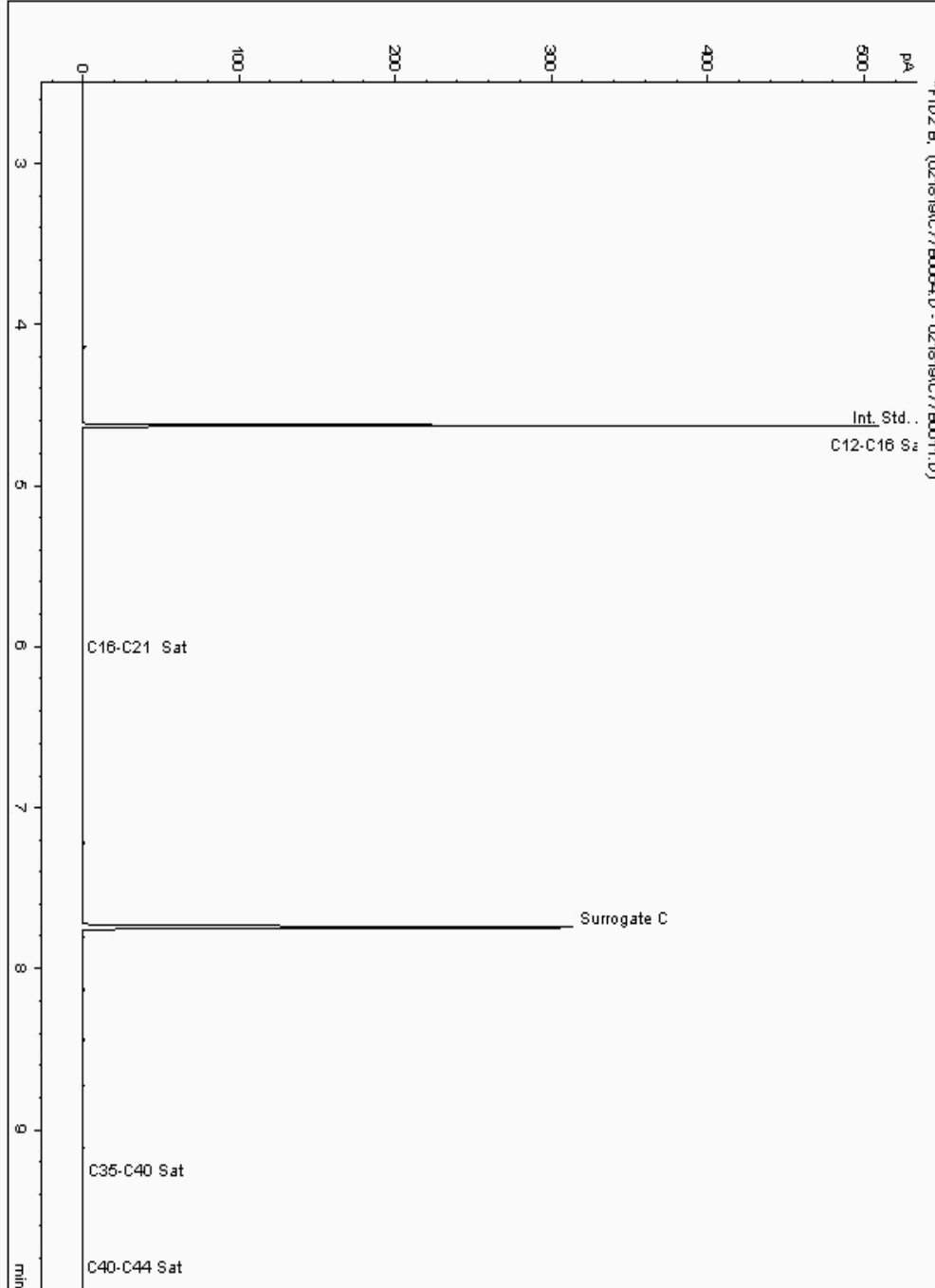
Analysis: EPH CWG (Aliphatic) GC (S)
19353481

Sample No :
Sample ID : BH241

19,353,481 Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112578-
Date Acquired : 2/19/2019 9:08:46 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

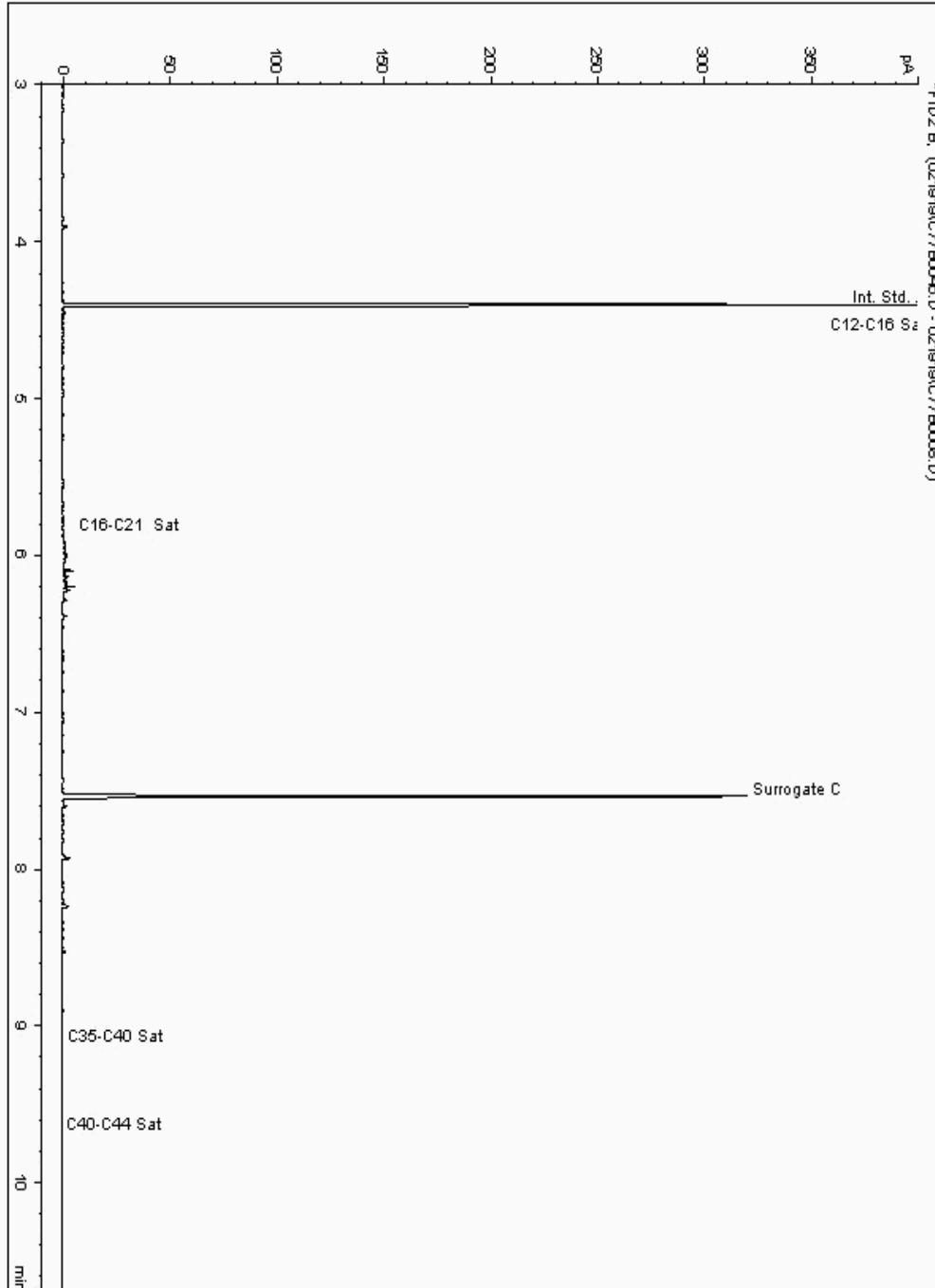
Analysis: EPH CWG (Aliphatic) GC (S)
19353619

Sample No :
Sample ID : BH250

19,353,619 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112250-
Date Acquired : 20/02/2019 00:19:22 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

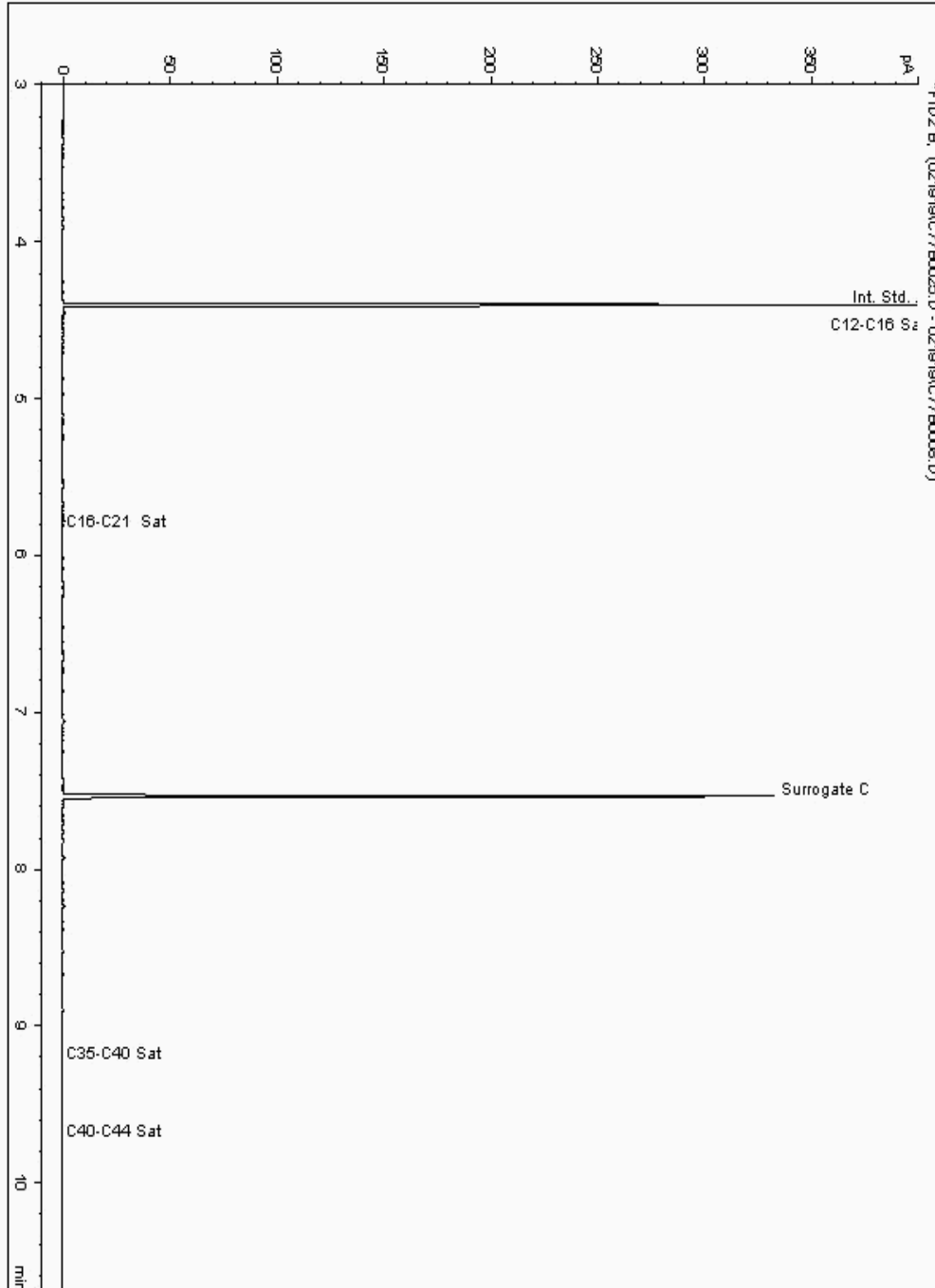
Analysis: EPH CWG (Aliphatic) GC (S)
19353645

Sample No :
Sample ID : BH241

19,353,645 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112546-
Date Acquired : 19/02/2019 17:46:56 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

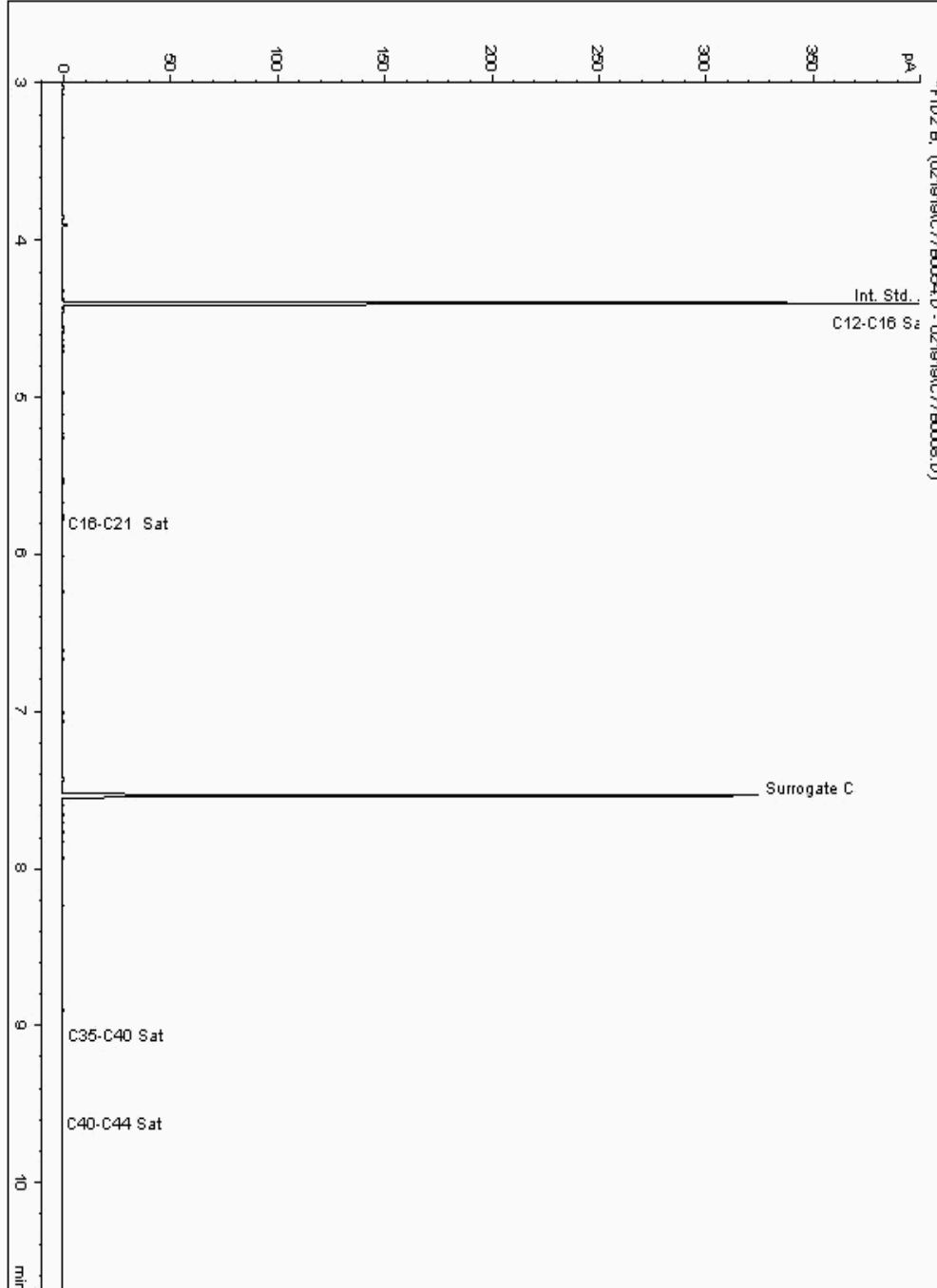
Analysis: EPH CWG (Aliphatic) GC (S)
19353664

Sample No :
Sample ID : BH241

19,353,664Depth : 7.00 - 8.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112665-
Date Acquired : 20/02/2019 02:44:59 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

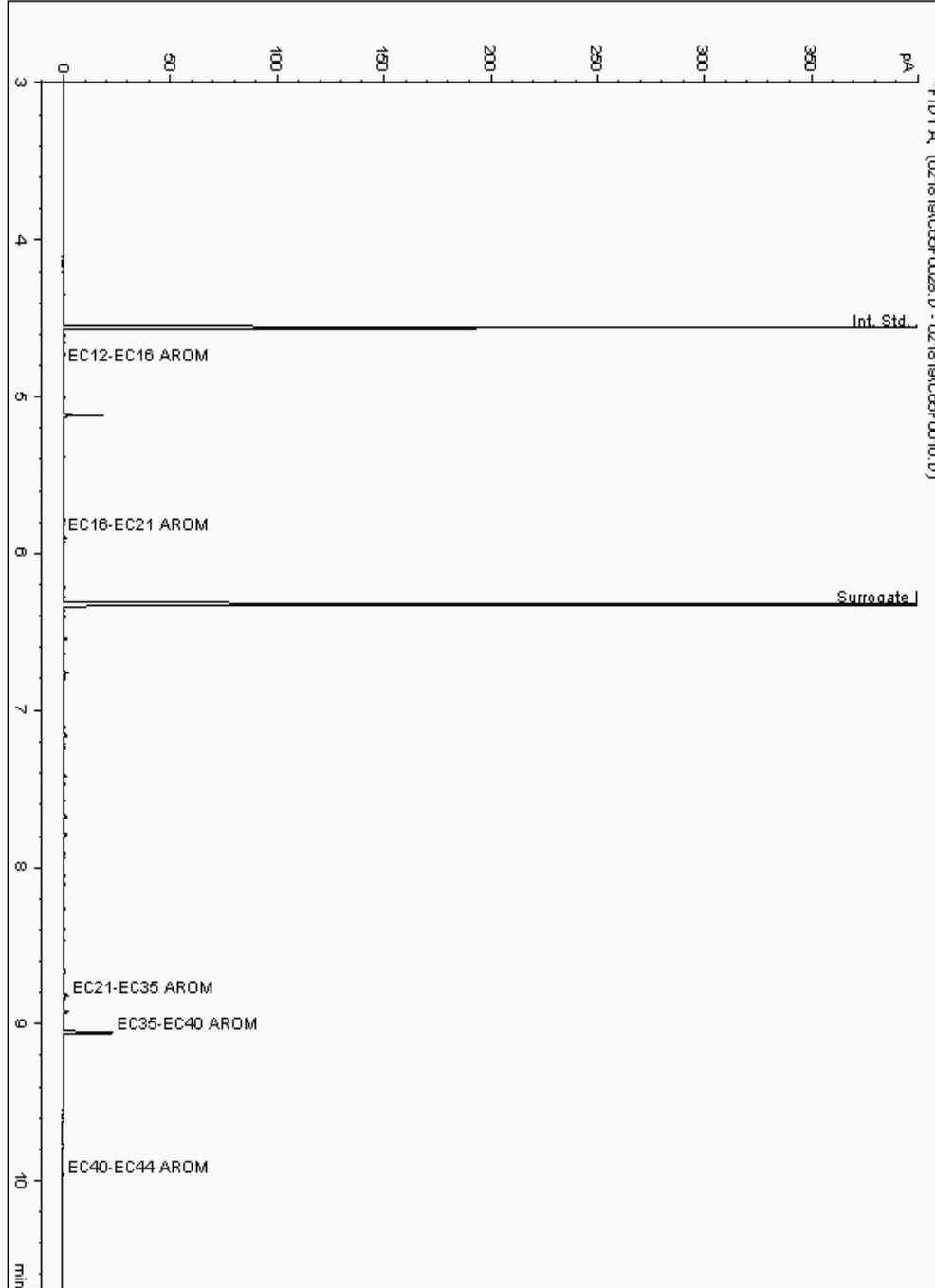
Analysis: EPH CWG (Aromatic) GC (S)
19351742

Sample No :
Sample ID : BH241

19,351,742Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112790-
Date Acquired : 18/02/2019 18:49:07 PM
Units : ppb
Dilution: BH241[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

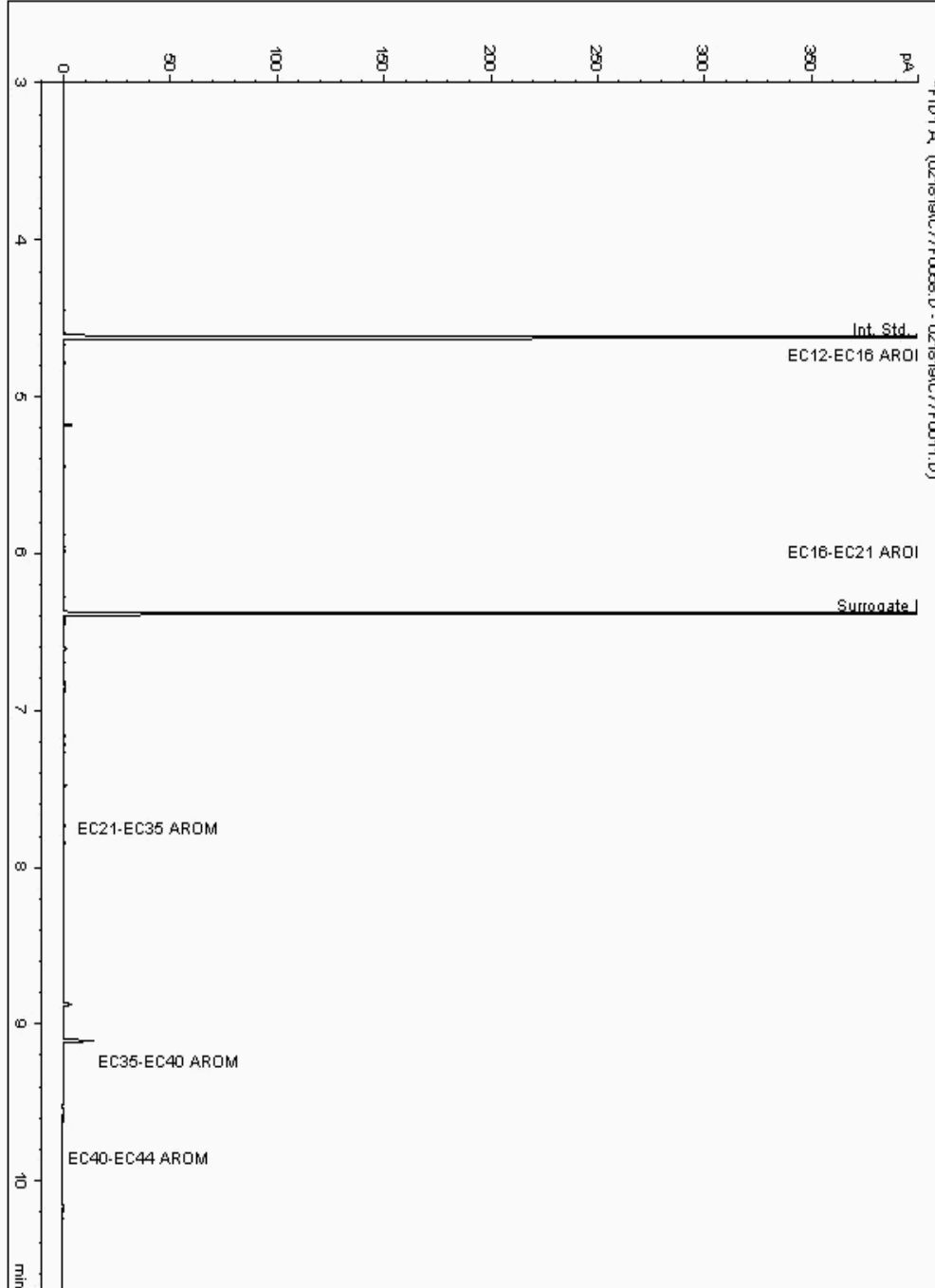
Analysis: EPH CWG (Aromatic) GC (S)
19351812

Sample No :
Sample ID : BH250

19,351,812Depth :8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112389-
Date Acquired : 2/19/2019 7:01:21 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

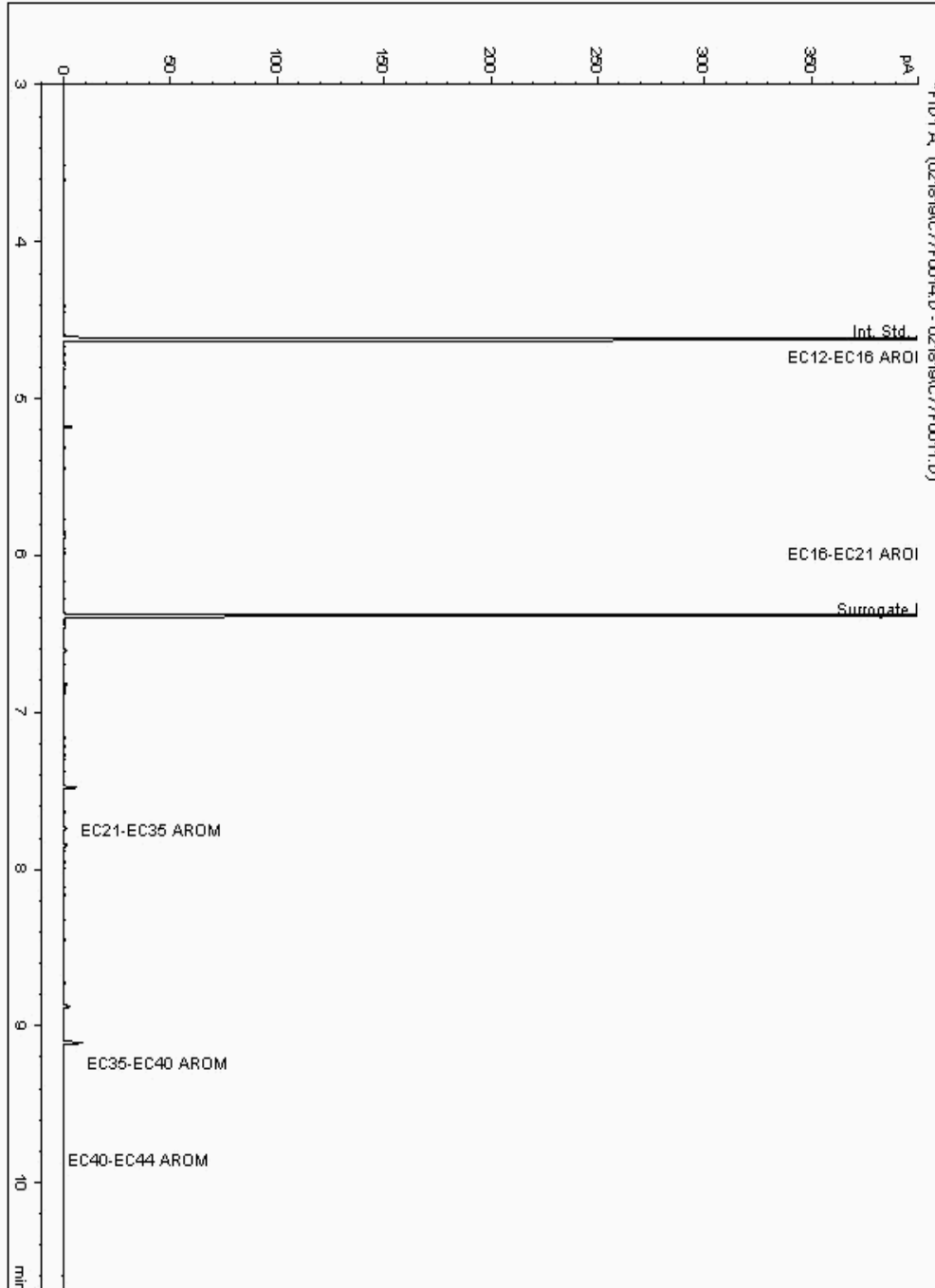
Analysis: EPH CWG (Aromatic) GC (S)
19351862

Sample No :
Sample ID : BH250

19,351,862Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112461-
Date Acquired : 2/18/2019 5:36:11 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

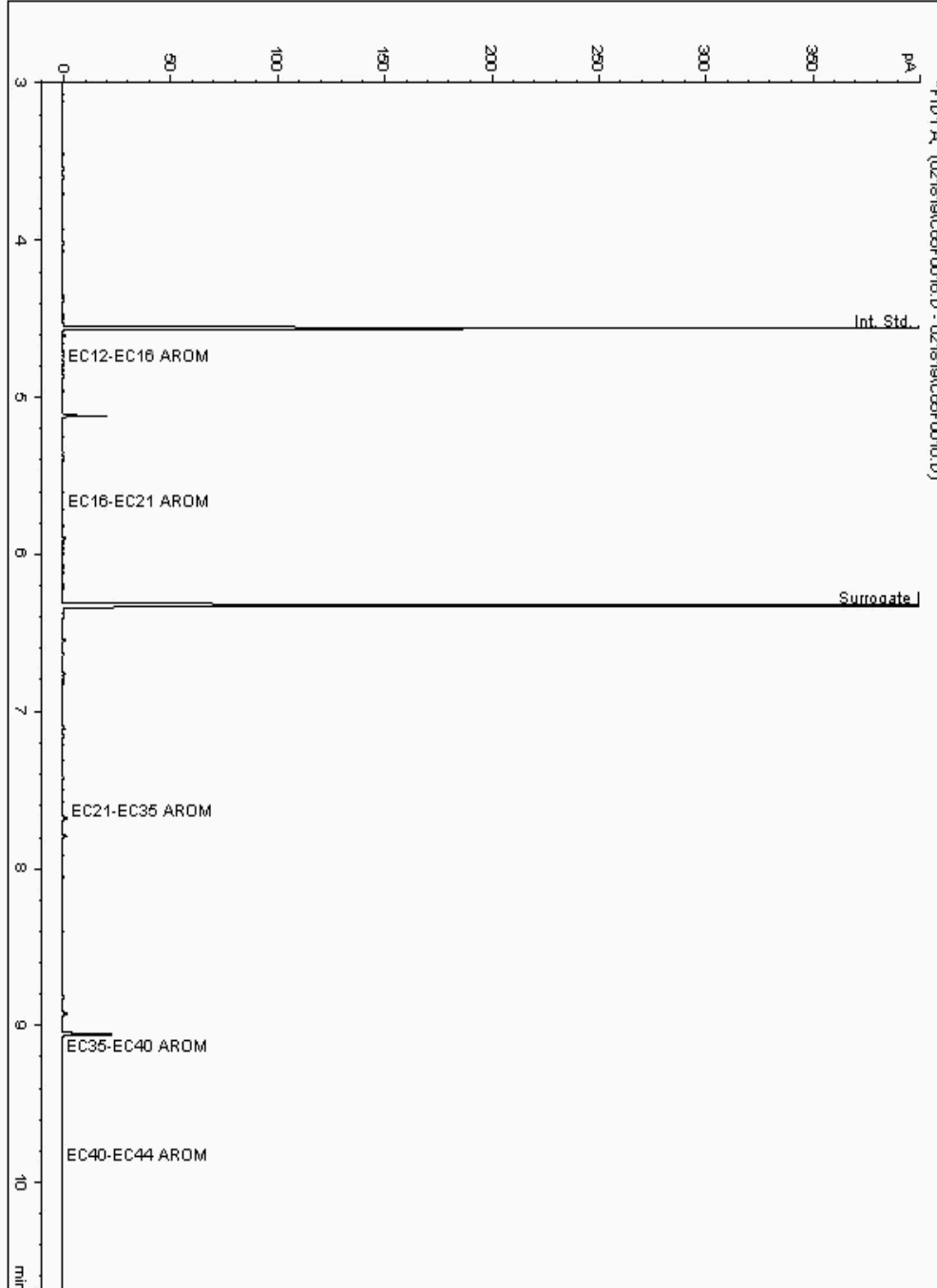
Analysis: EPH CWG (Aromatic) GC (S)
19351913

Sample No :
Sample ID : BH250

19,351,913 Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112882-
Date Acquired : 18/02/2019 15:15:33 PM
Units : ppb
Dilution: BH250[11.00 - 12.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

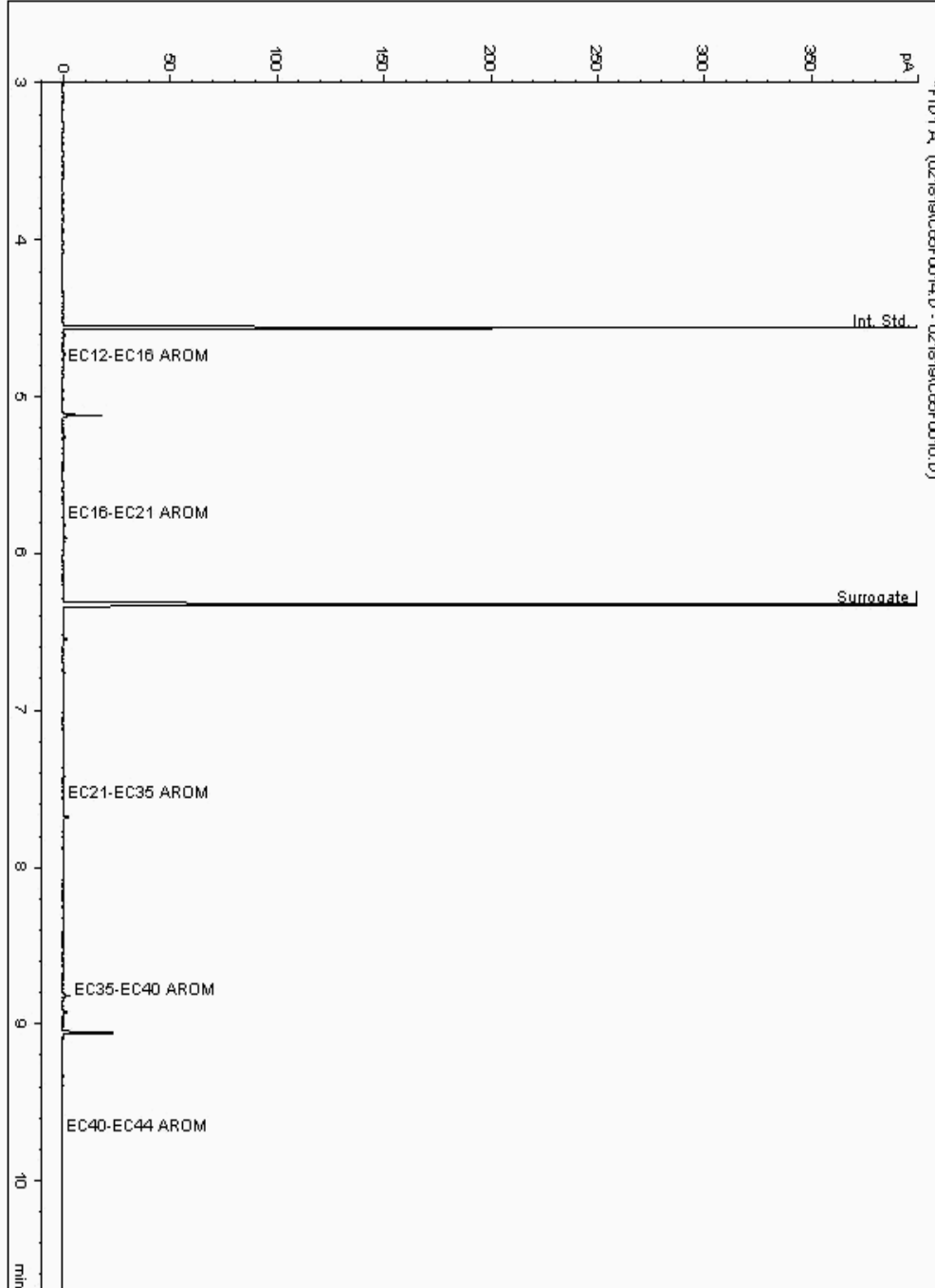
Analysis: EPH CWG (Aromatic) GC (S)
19351951

Sample No :
Sample ID : BH241

19,351,951 Depth : 9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112691-
Date Acquired : 18/02/2019 14:34:32 PM
Units : ppb
Dilution: BH241[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

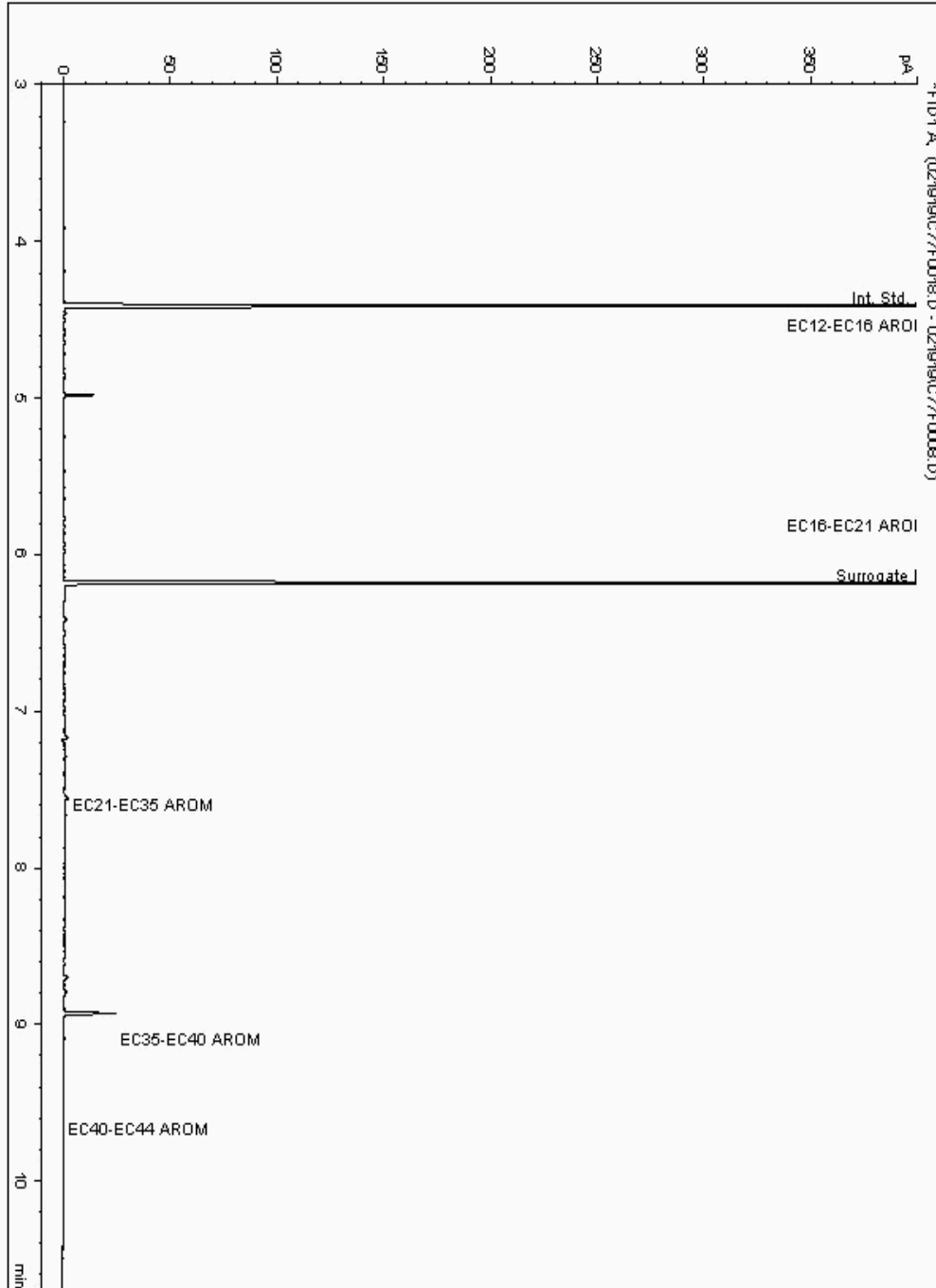
Analysis: EPH CWG (Aromatic) GC (S)
19352164

Sample No :
Sample ID : BH250

19,352,164Depth :0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112204-
Date Acquired : 19/02/2019 15:25:34 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

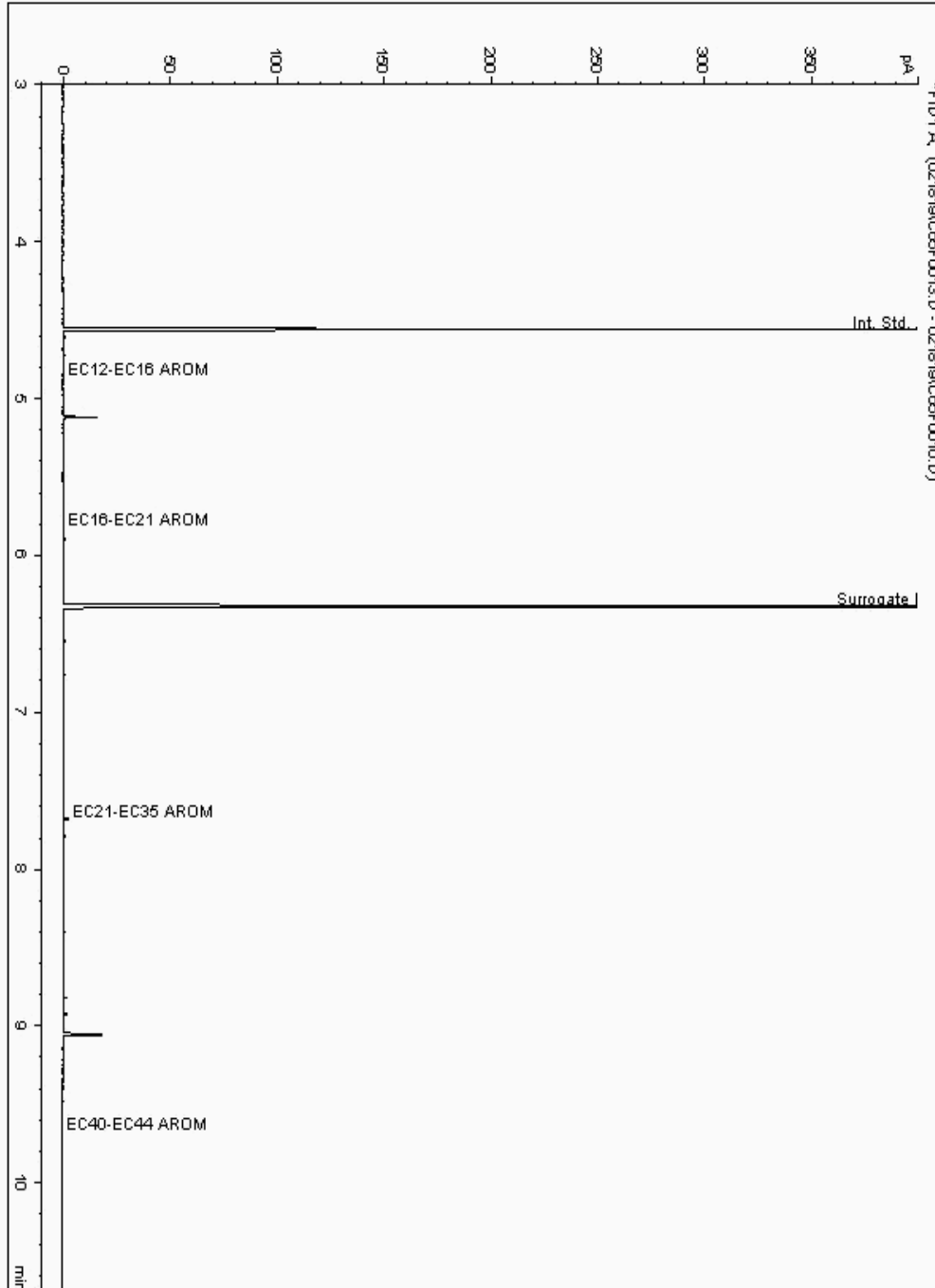
Analysis: EPH CWG (Aromatic) GC (S)
19352227

Sample No :
Sample ID : BH250

19,352,227Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112412-
Date Acquired : 18/02/2019 14:13:57 PM
Units : ppb
Dilution: BH250[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

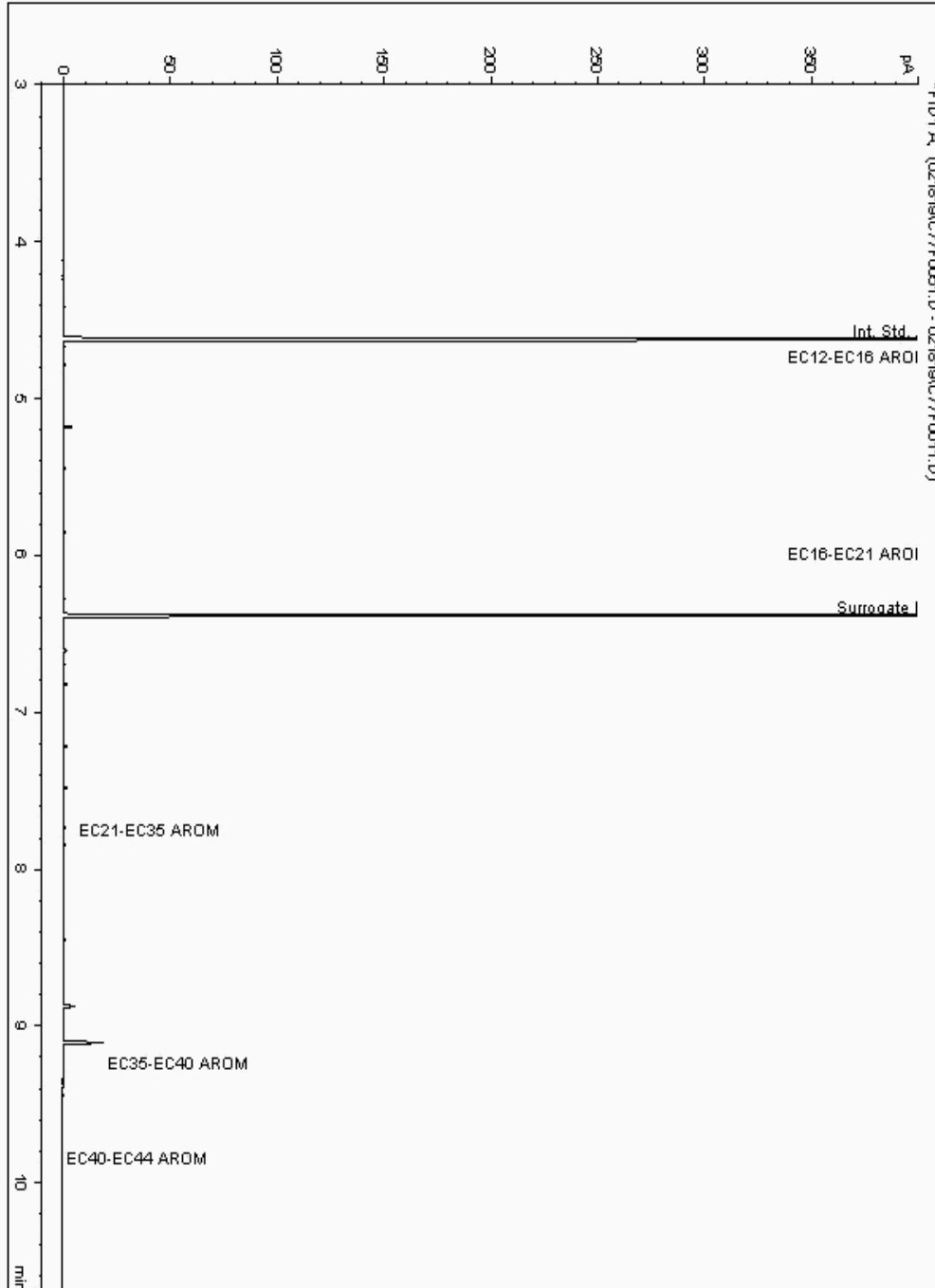
Analysis: EPH CWG (Aromatic) GC (S)
19352346

Sample No :
Sample ID : BH250

19,352,346 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112436-
Date Acquired : 2/19/2019 4:57:39 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

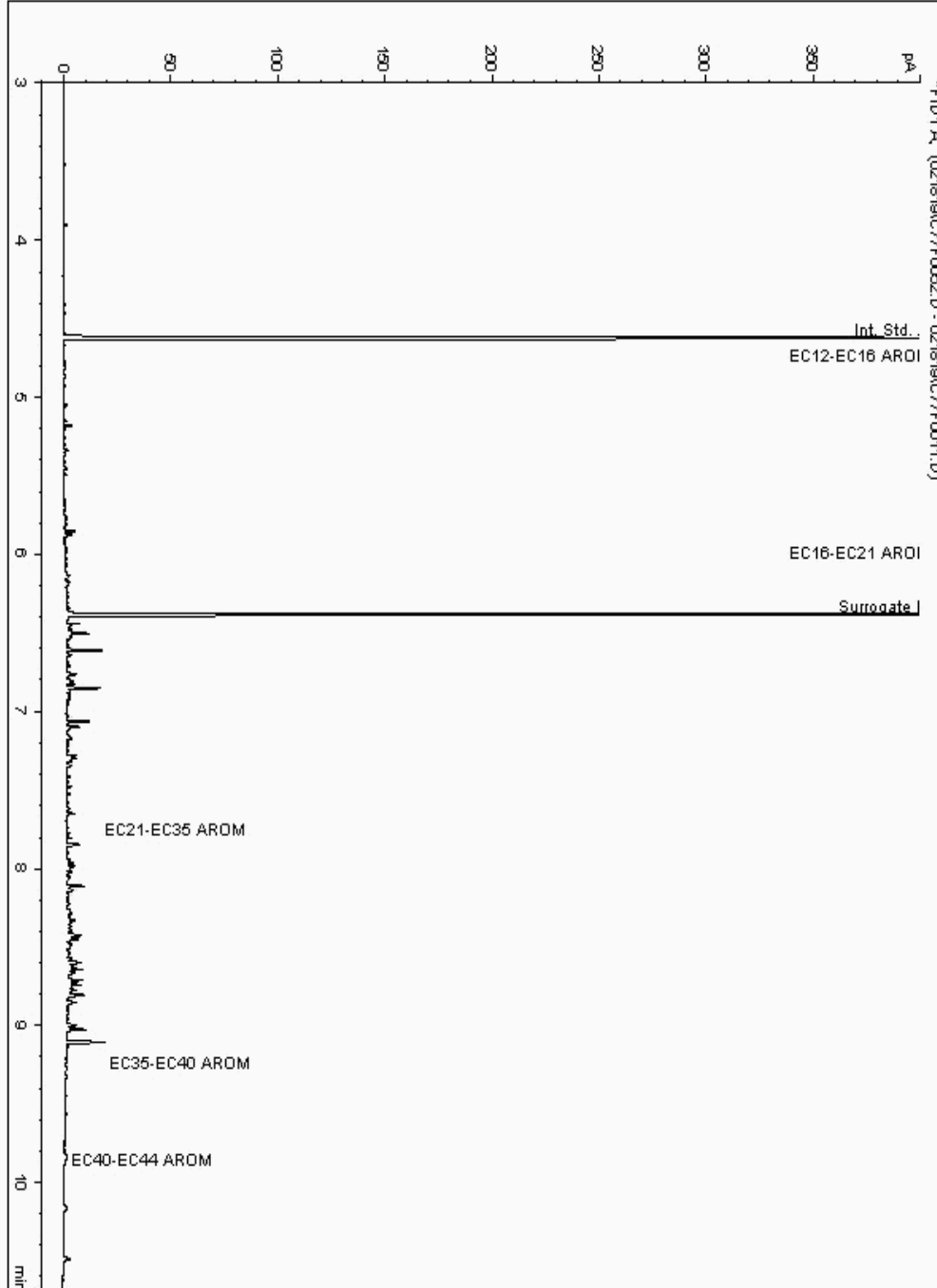
Analysis: EPH CWG (Aromatic) GC (S)
19352472

Sample No :
Sample ID : BH241

19,352,472 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112603-
Date Acquired : 2/19/2019 5:17:40 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

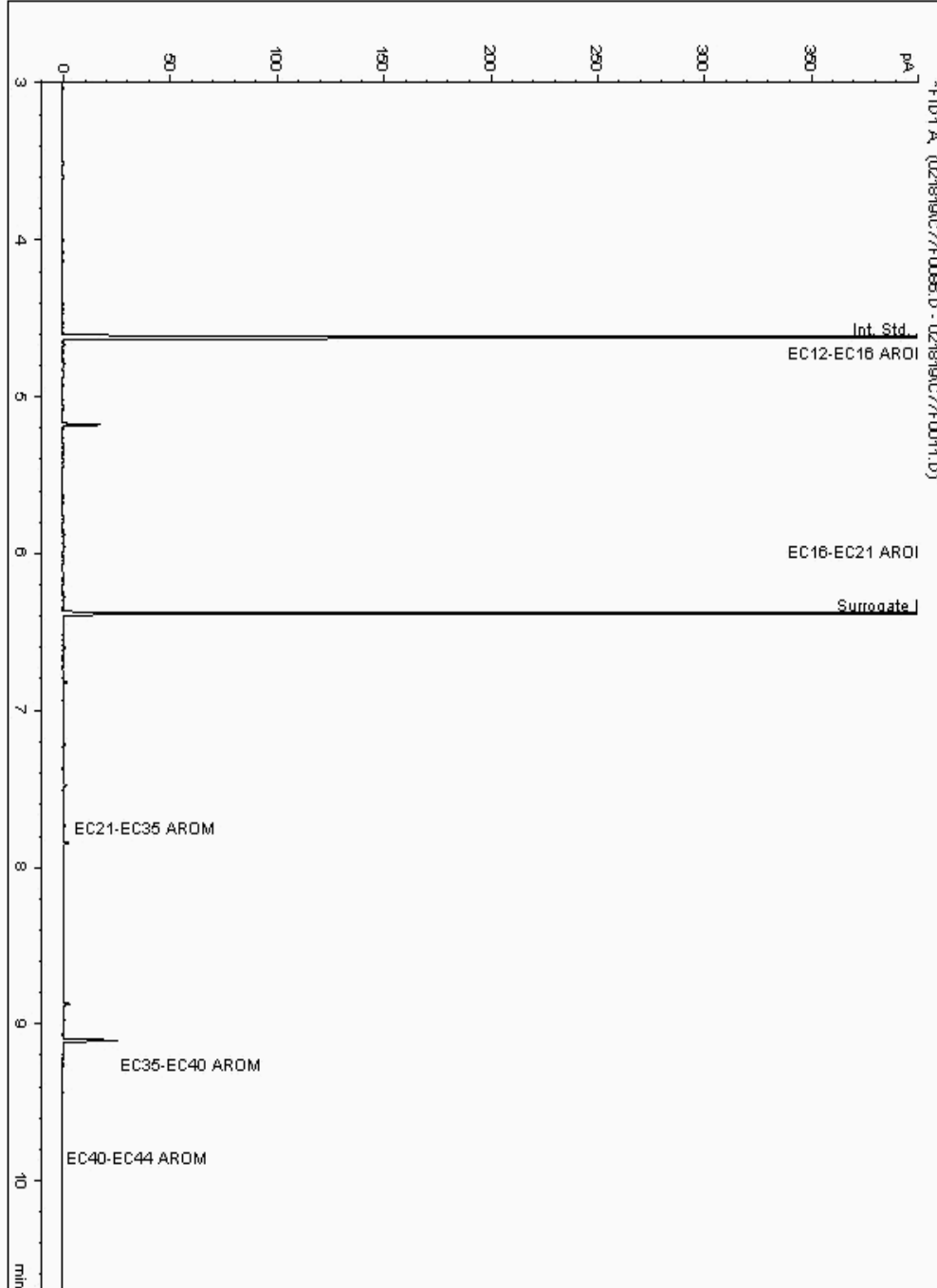
Analysis: EPH CWG (Aromatic) GC (S)
19352489

Sample No :
Sample ID : BH241

19,352,489 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112764-
Date Acquired : 2/20/2019 2:20:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

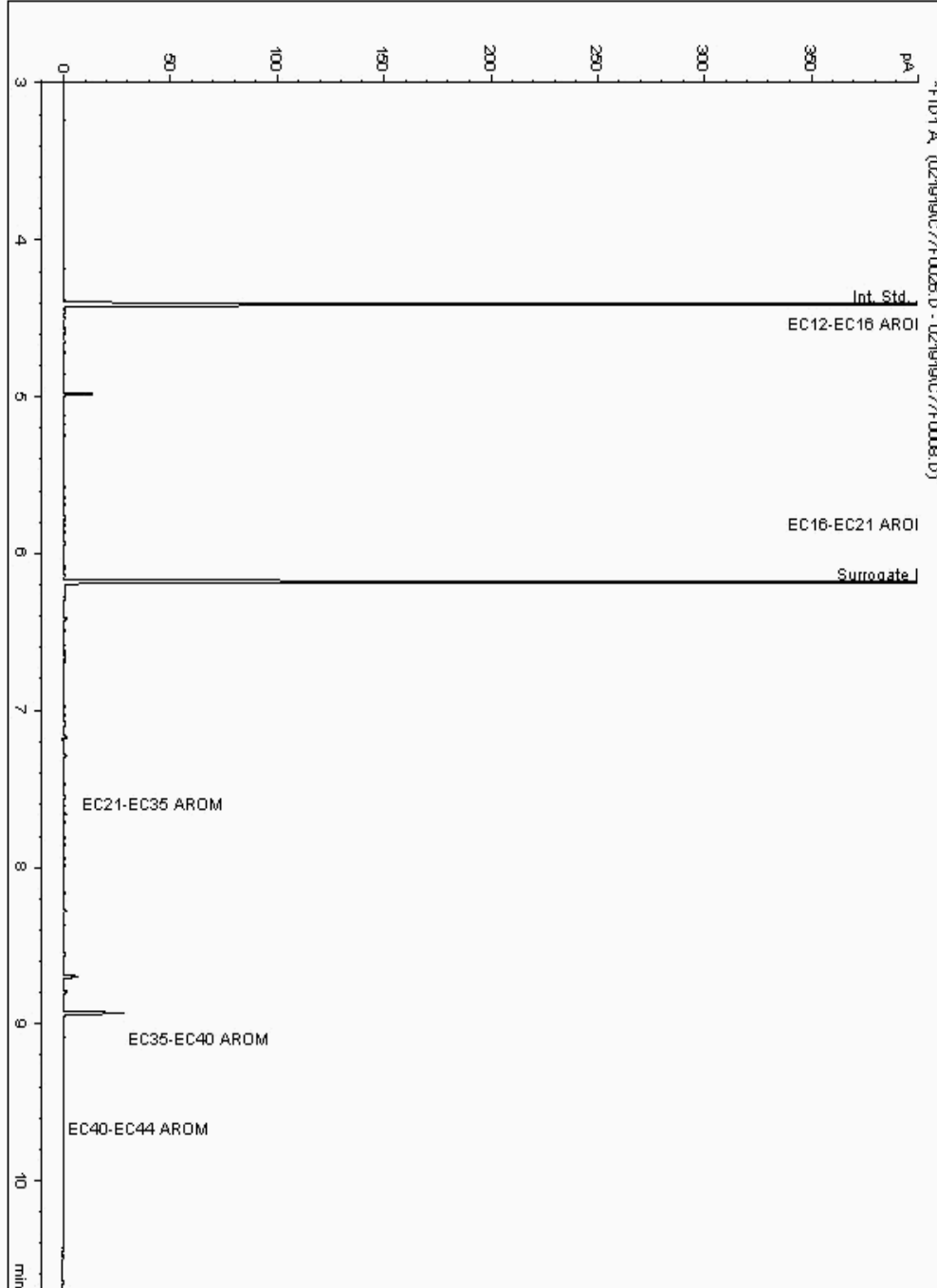
Analysis: EPH CWG (Aromatic) GC (S)
19352726

Sample No :
Sample ID : BH241

19,352,726 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112741-
Date Acquired : 19/02/2019 18:07:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

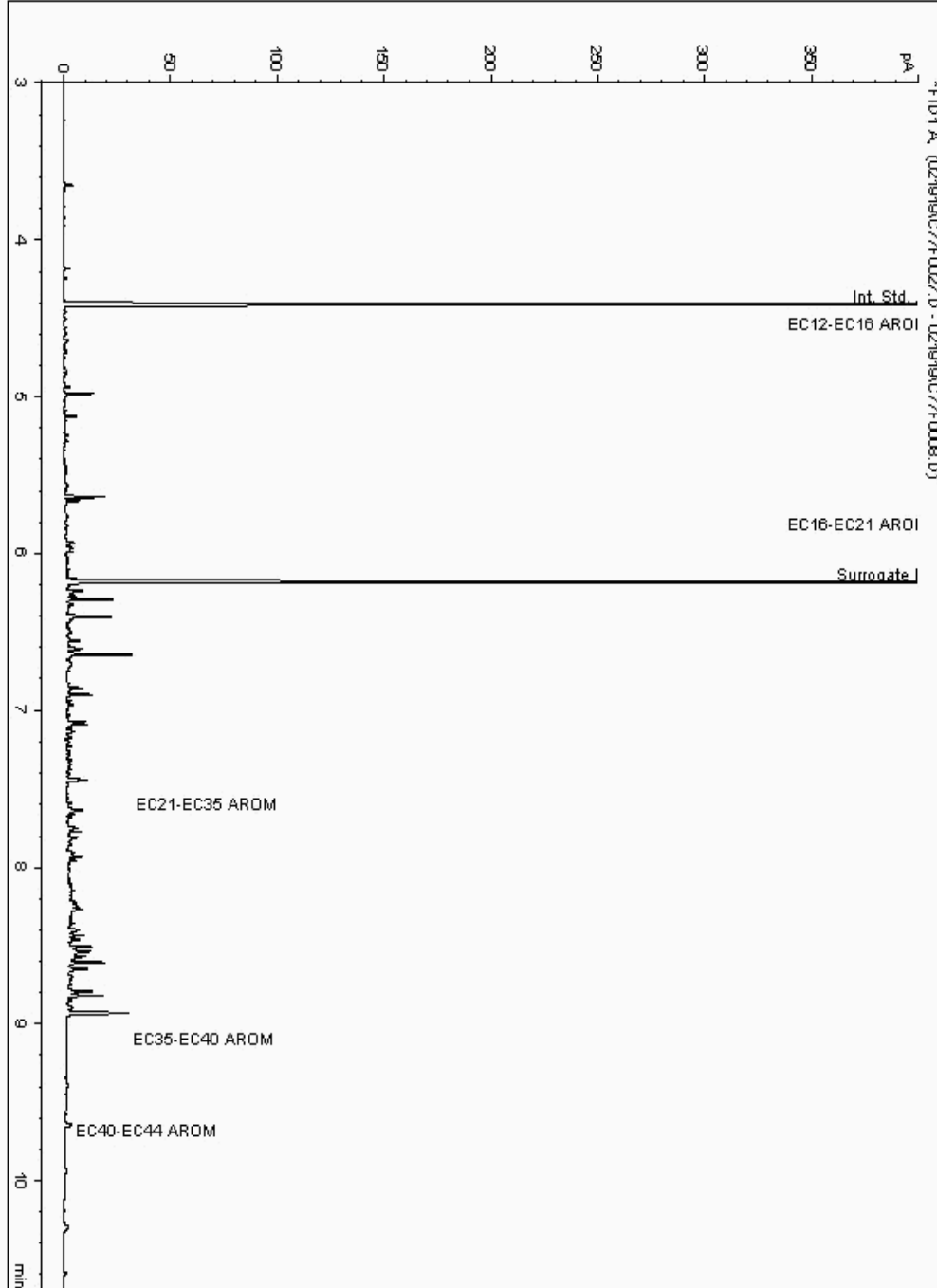
Analysis: EPH CWG (Aromatic) GC (S)
19352797

Sample No :
Sample ID : BH250

19,352,797Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112314-
Date Acquired : 19/02/2019 18:27:19 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

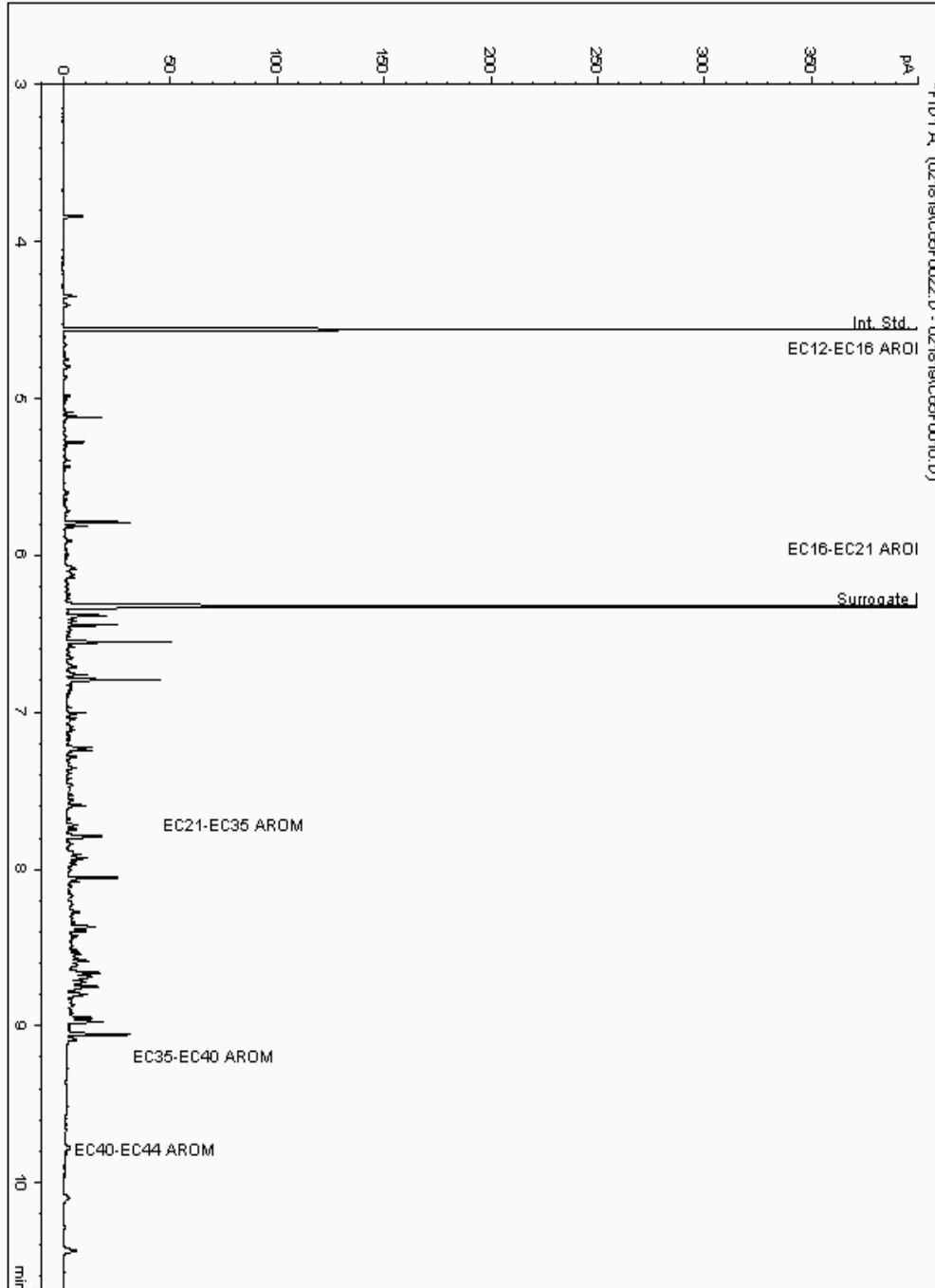
Analysis: EPH CWG (Aromatic) GC (S)
19352951

Sample No :
Sample ID : BH250

19,352,951 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112280-
Date Acquired : 18/02/2019 17:10:34 PM
Units : ppb
Dilution: BH250[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

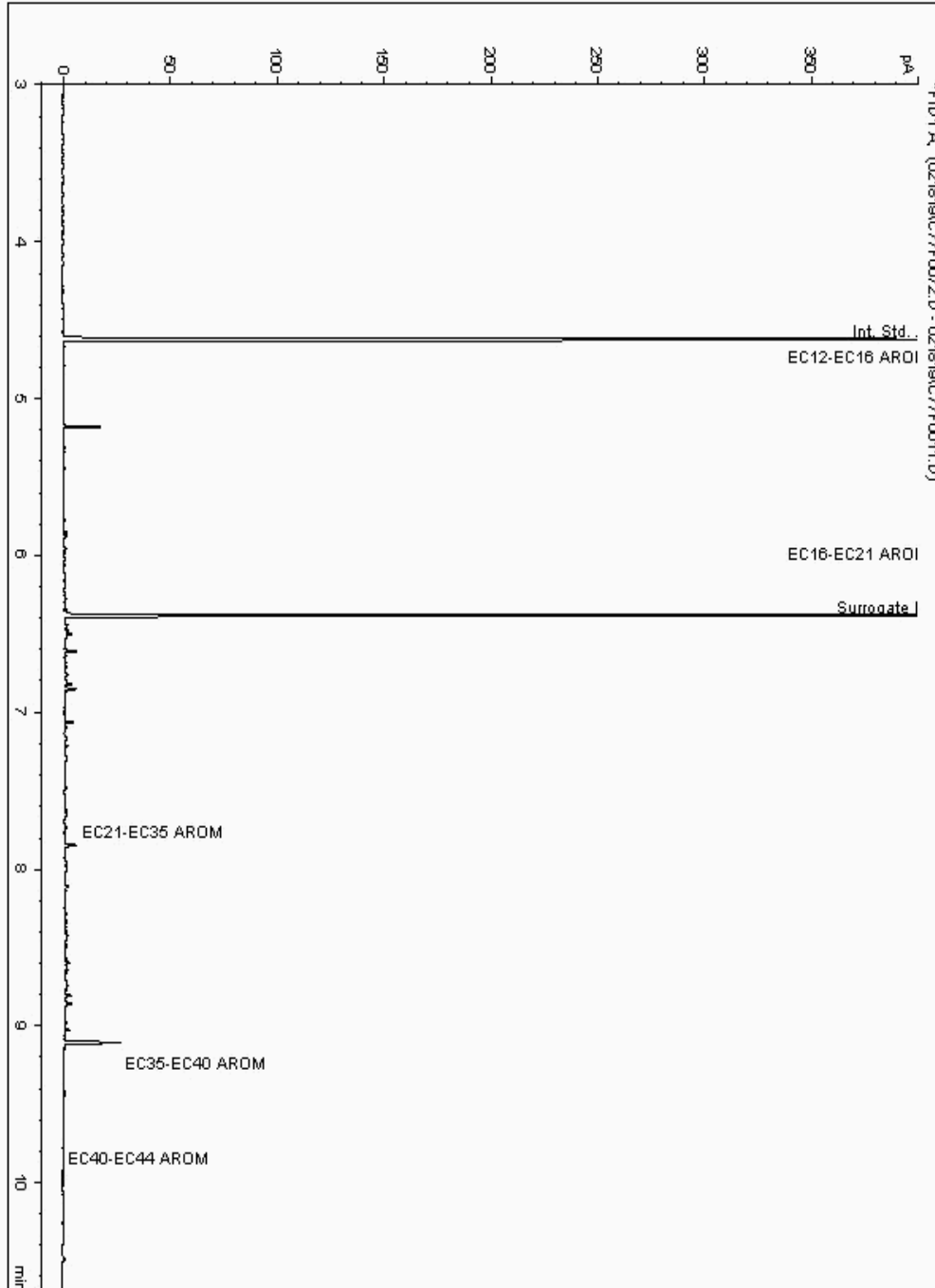
Analysis: EPH CWG (Aromatic) GC (S)
19353119

Sample No :
Sample ID : BH241

19,353,119Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112636-
Date Acquired : 2/20/2019 9:55:04 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

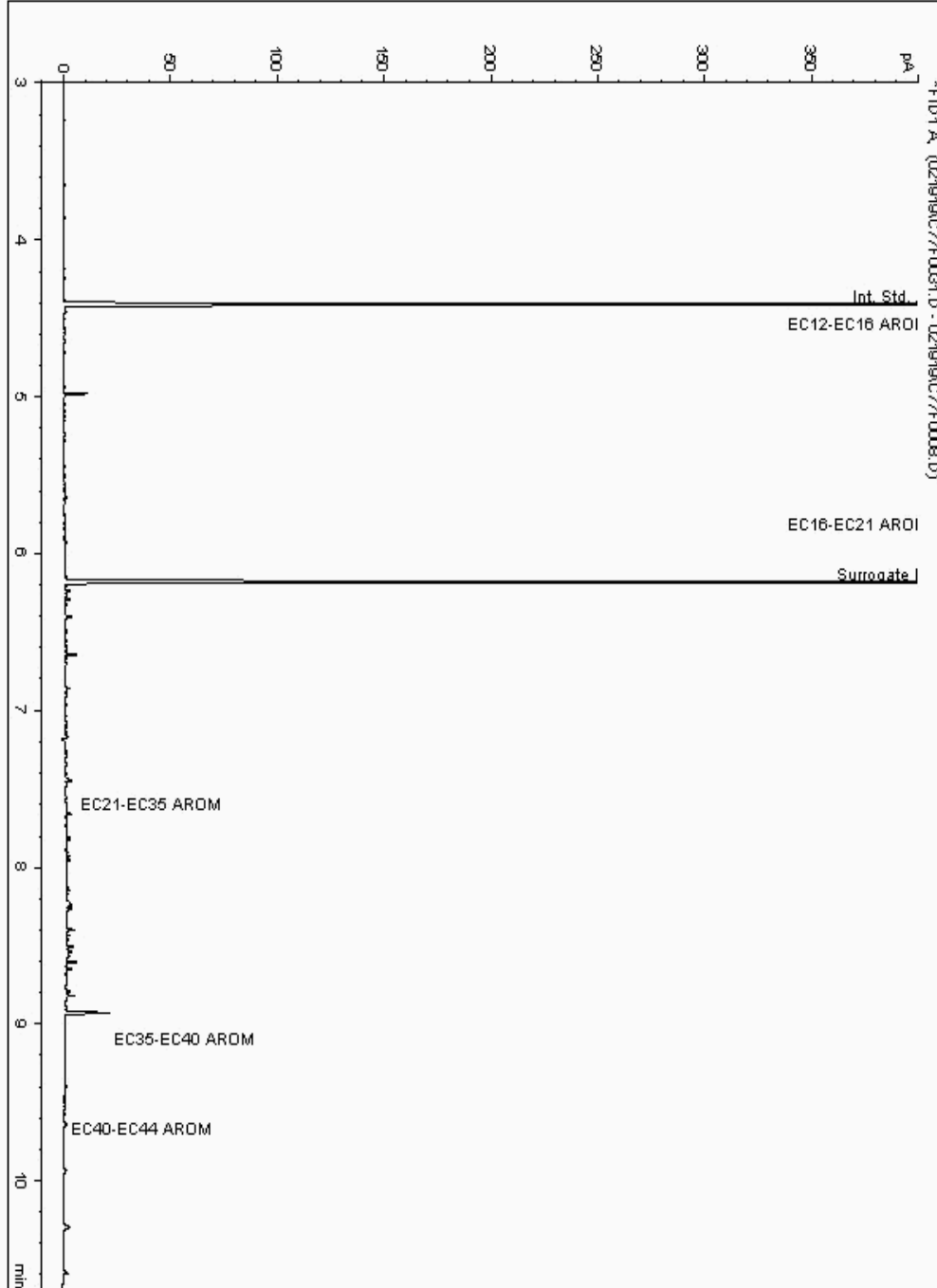
Analysis: EPH CWG (Aromatic) GC (S)
19353365

Sample No :
Sample ID : BH250

19,353,365Depth :5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112362-
Date Acquired : 19/02/2019 19:39:55 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

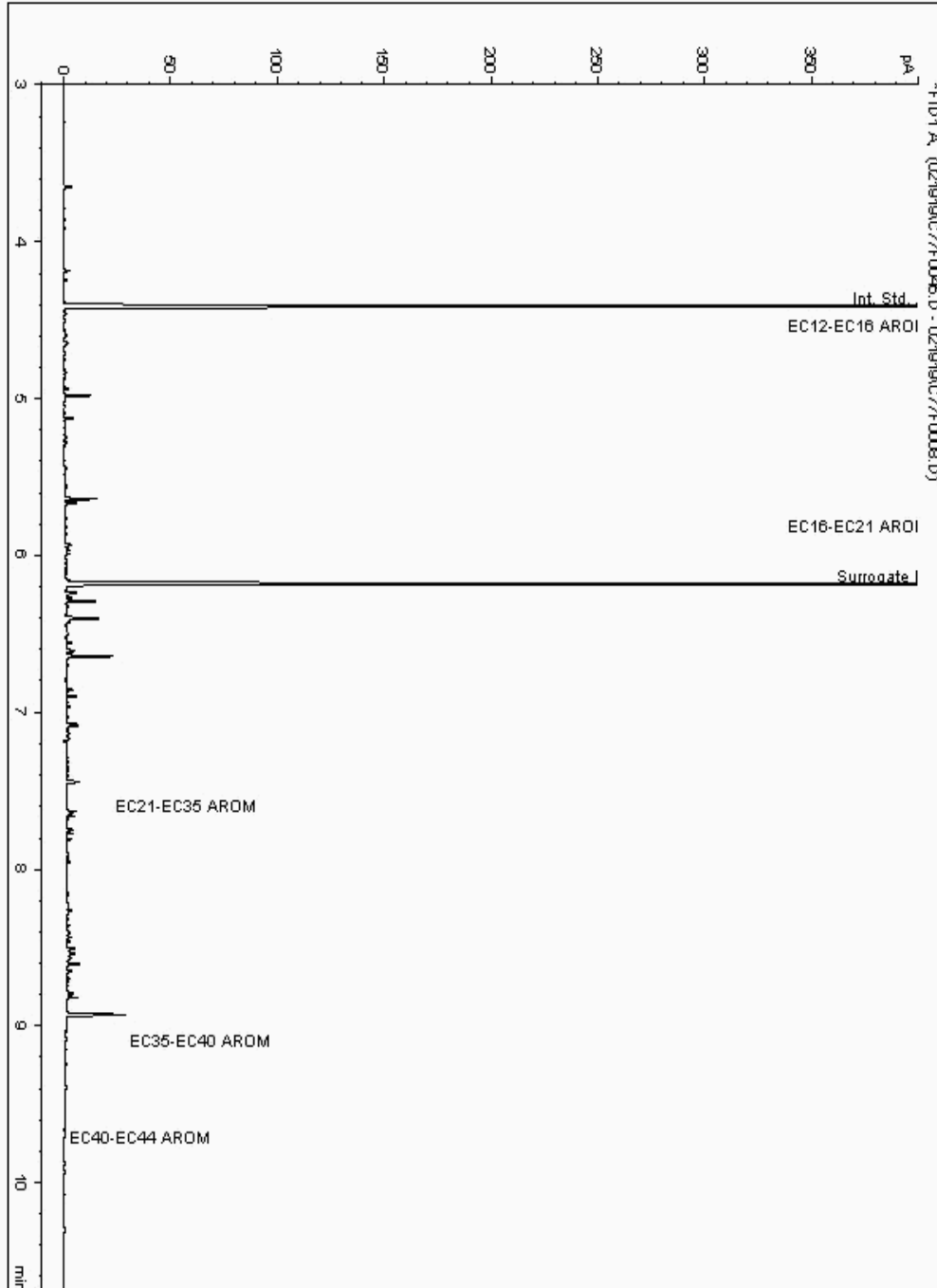
Analysis: EPH CWG (Aromatic) GC (S)
19353403

Sample No :
Sample ID : BH250

19,353,403Depth :4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112336-
Date Acquired : 19/02/2019 23:59:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

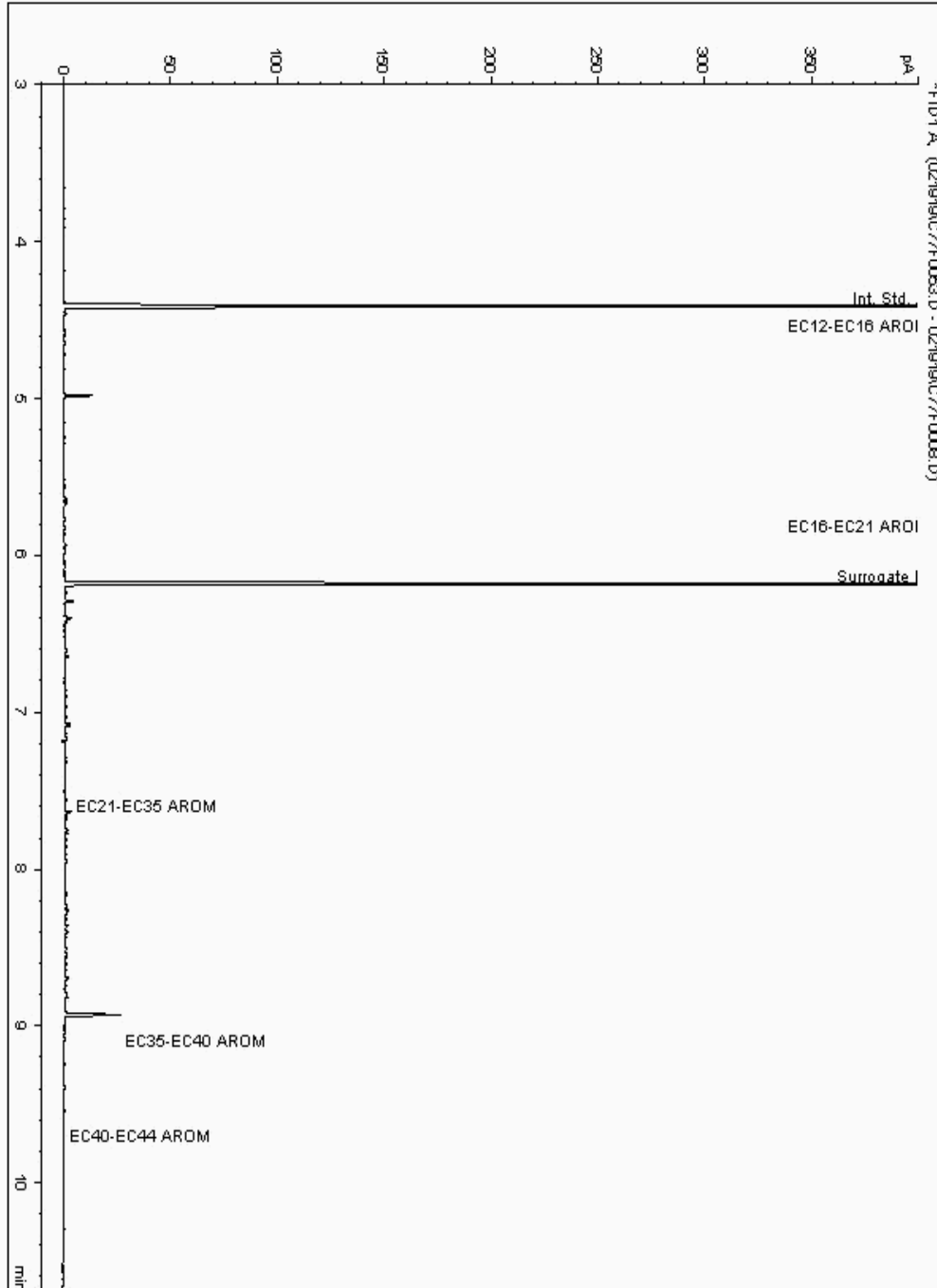
Analysis: EPH CWG (Aromatic) GC (S)
19353444

Sample No :
Sample ID : BH241

19,353,444Depth :0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112491-
Date Acquired : 20/02/2019 02:24:37 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

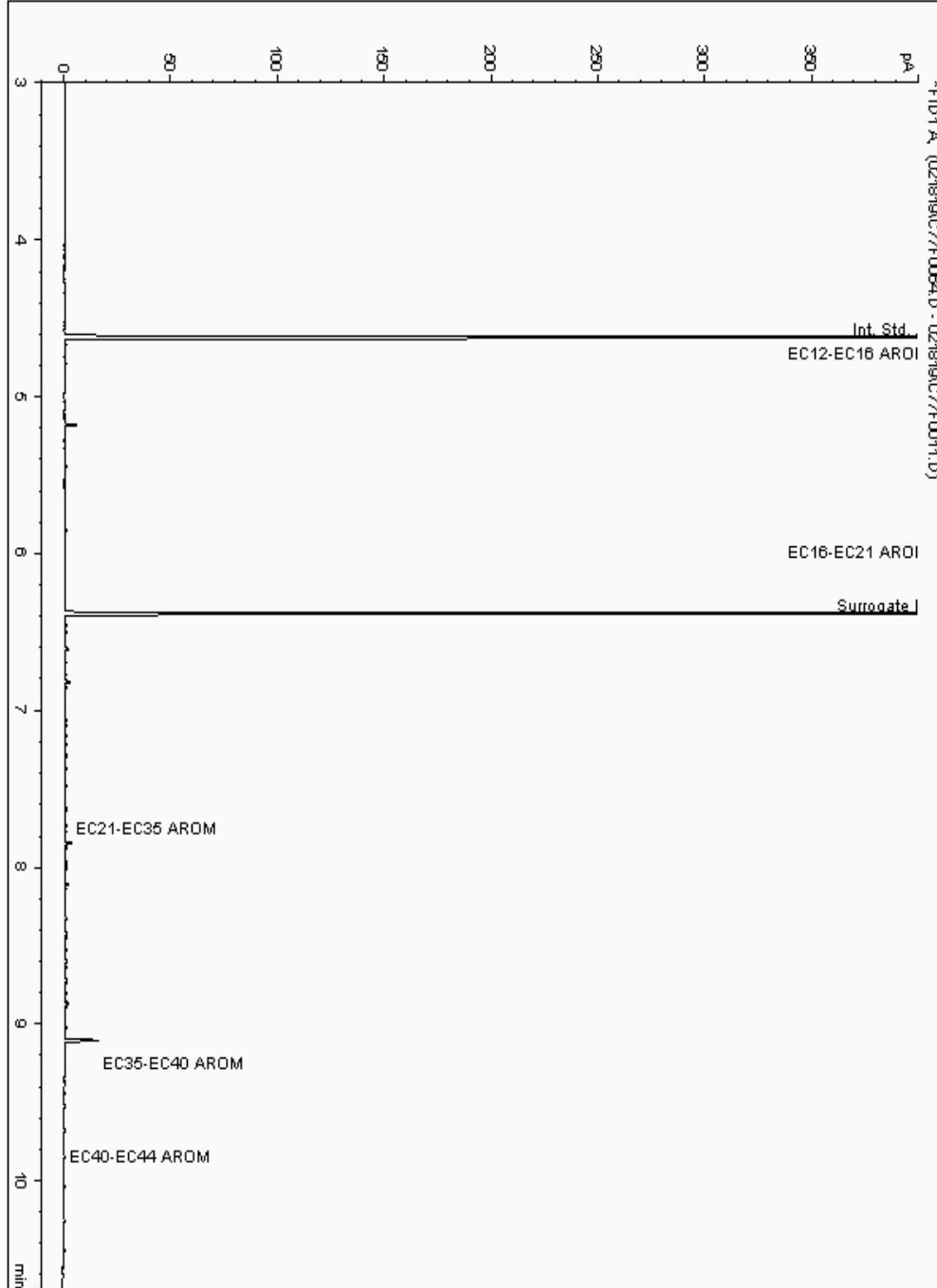
Analysis: EPH CWG (Aromatic) GC (S)
19353481

Sample No :
Sample ID : BH241

19,353,481 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112579-
Date Acquired : 2/19/2019 9:08:46 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

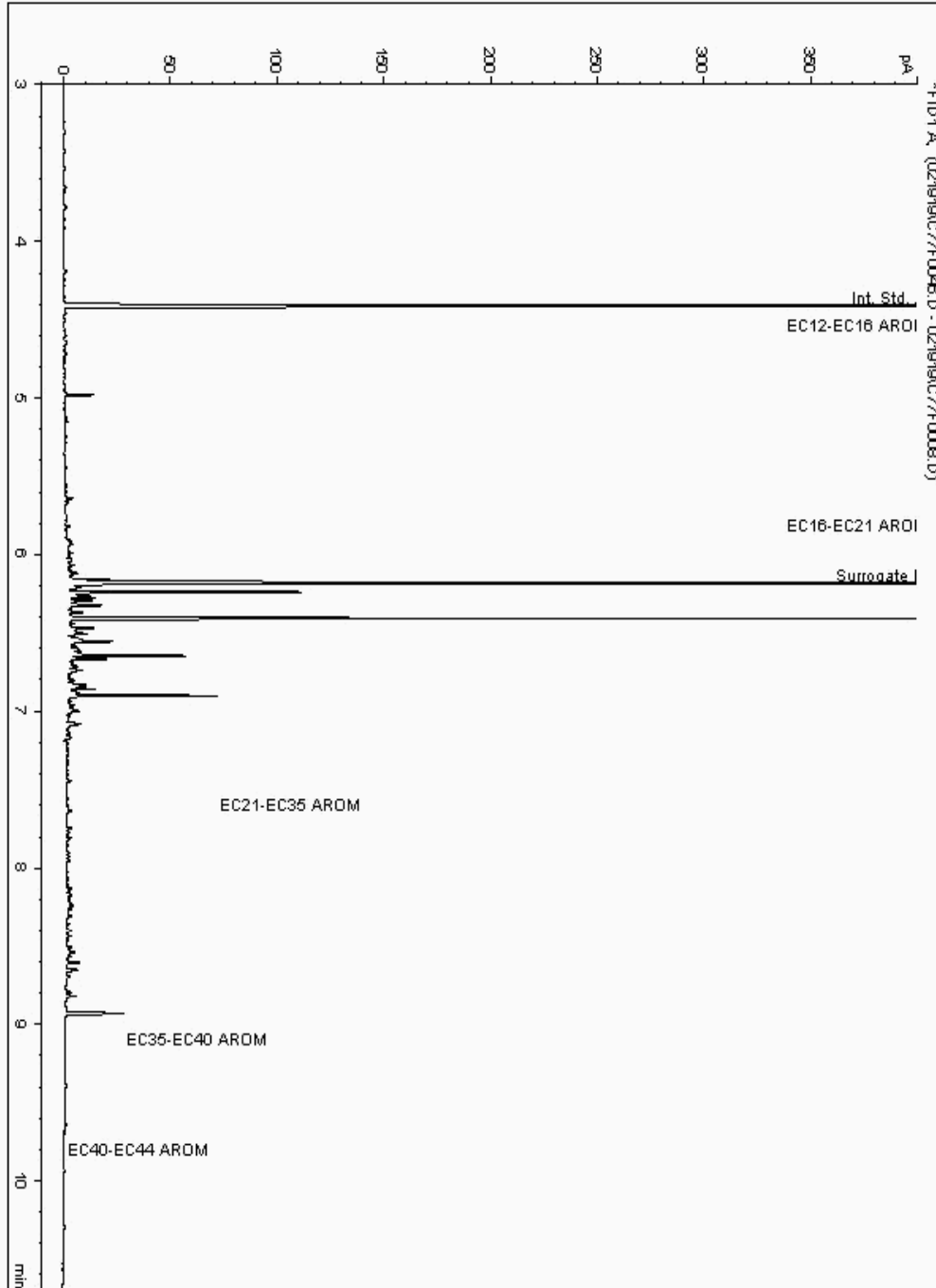
Analysis: EPH CWG (Aromatic) GC (S)
19353619

Sample No :
Sample ID : BH250

19,353,619 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112251-
Date Acquired : 20/02/2019 00:19:22 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

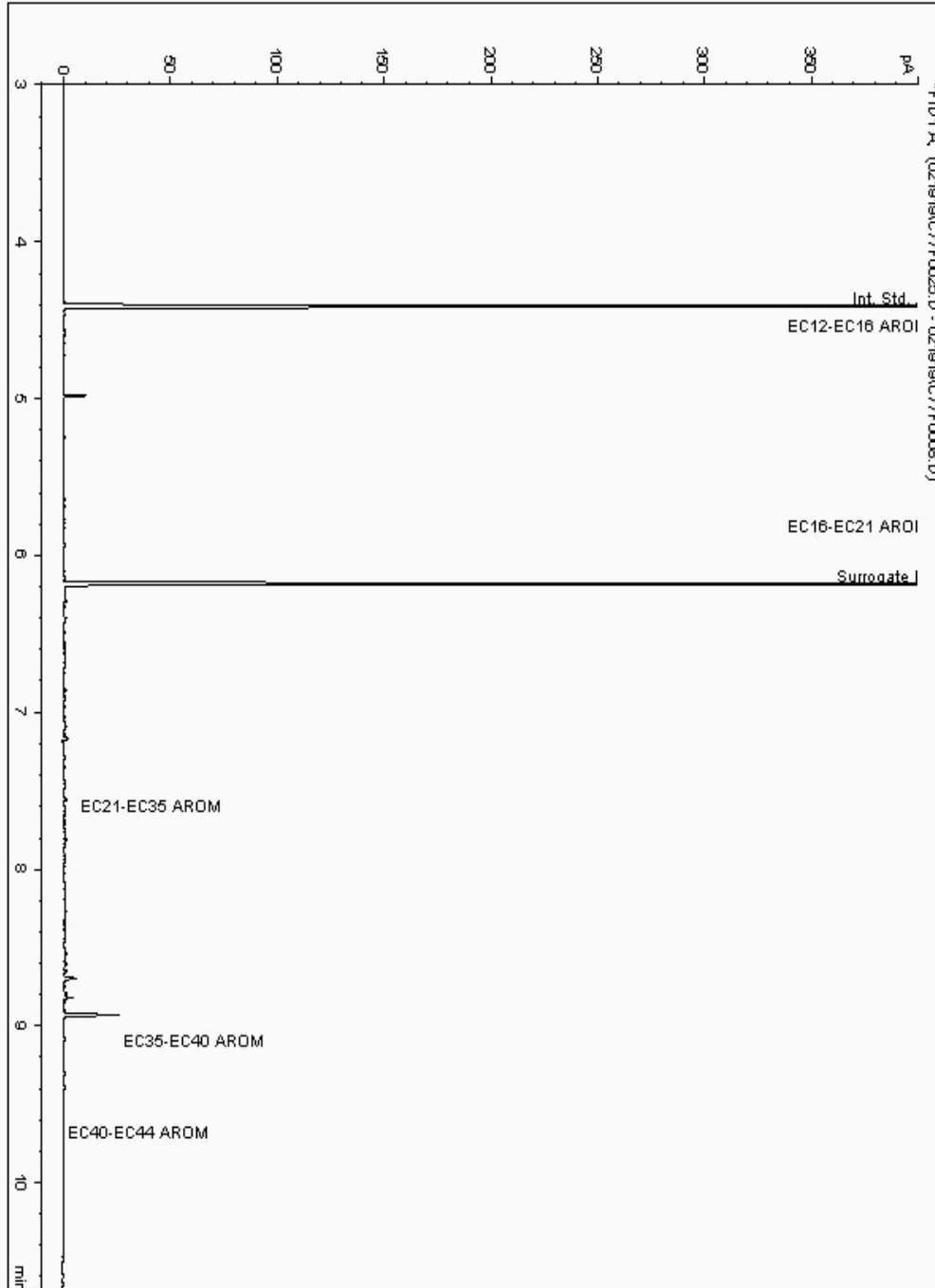
Analysis: EPH CWG (Aromatic) GC (S)
19353645

Sample No :
Sample ID : BH241

19,353,645 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112547-
Date Acquired : 19/02/2019 17:46:56 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

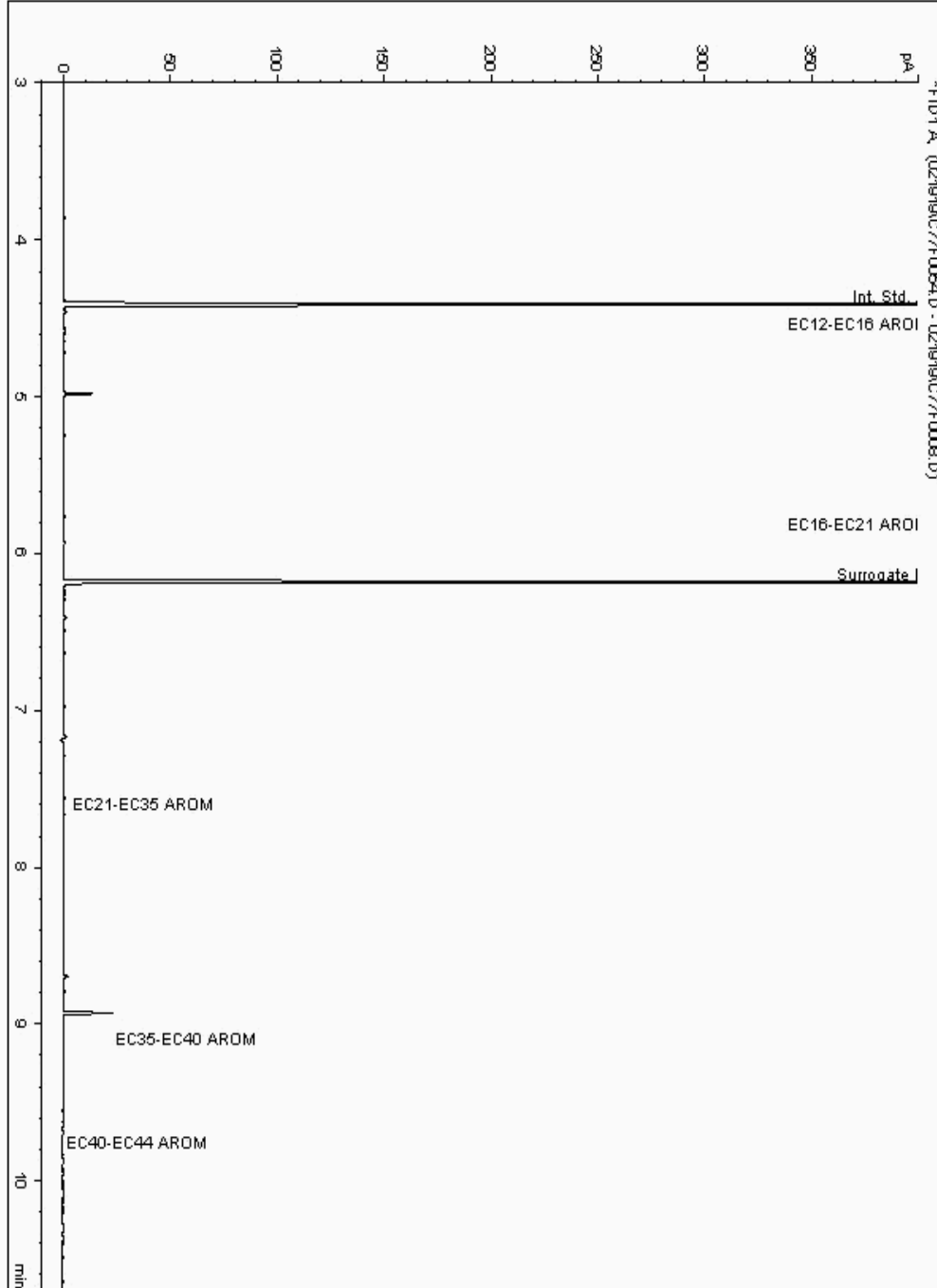
Analysis: EPH CWG (Aromatic) GC (S)
19353664

Sample No :
Sample ID : BH241

19,353,664 Depth : 7.00 - 8.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112666-
Date Acquired : 20/02/2019 02:44:59 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

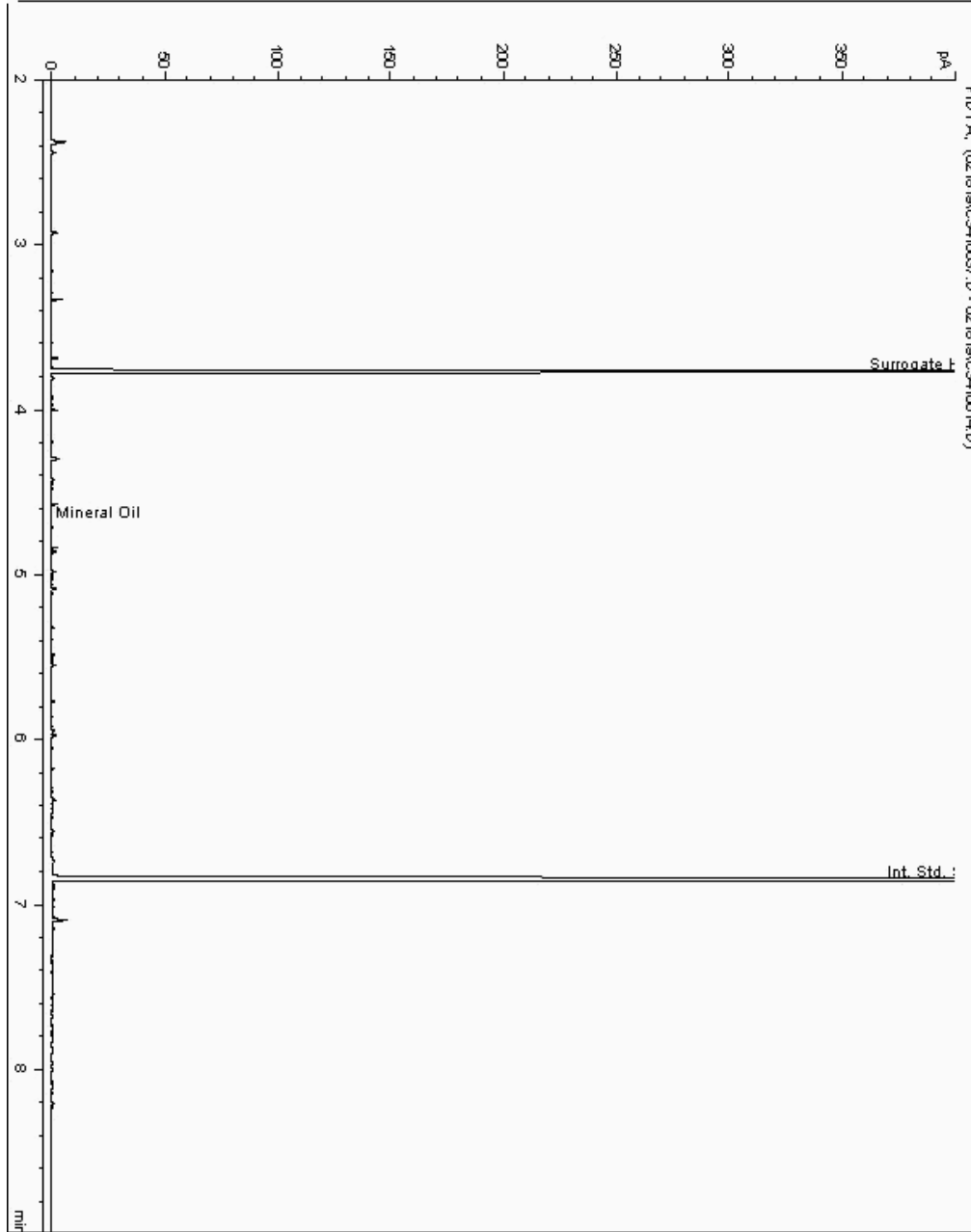
Analysis: Mineral Oil
19351773

Sample No :
Sample ID : BH241

19,351,773 Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112791-
Date Acquired : 18/02/19 18:49:54 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

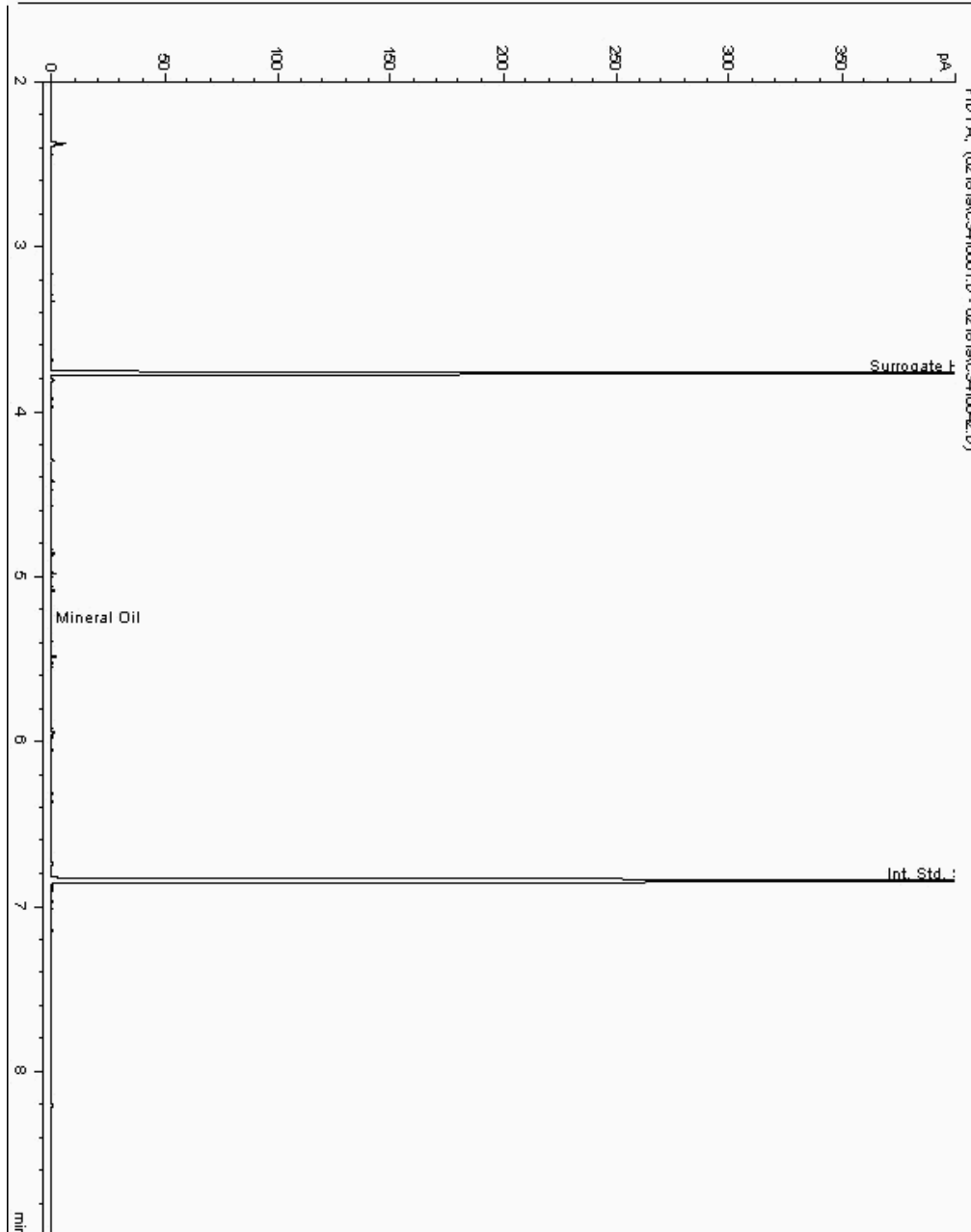
Analysis: Mineral Oil
19351832

Sample No :
Sample ID : BH250

19,351,832Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112390-
Date Acquired : 19/02/19 02:24:30 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

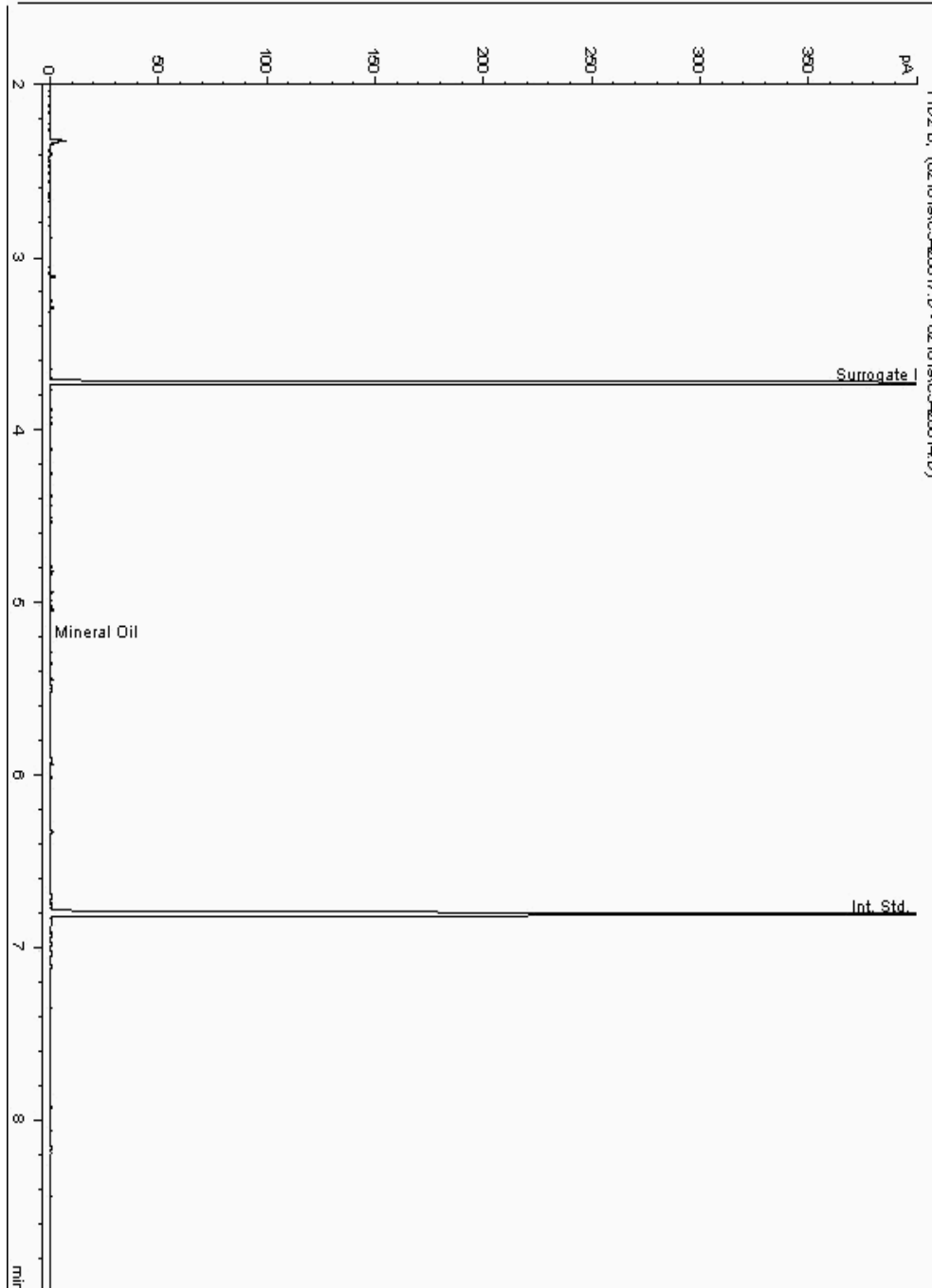
Analysis: Mineral Oil
19351884

Sample No :
Sample ID : BH250

19,351,884Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112462-
Date Acquired : 18/02/2019 16:07:50 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

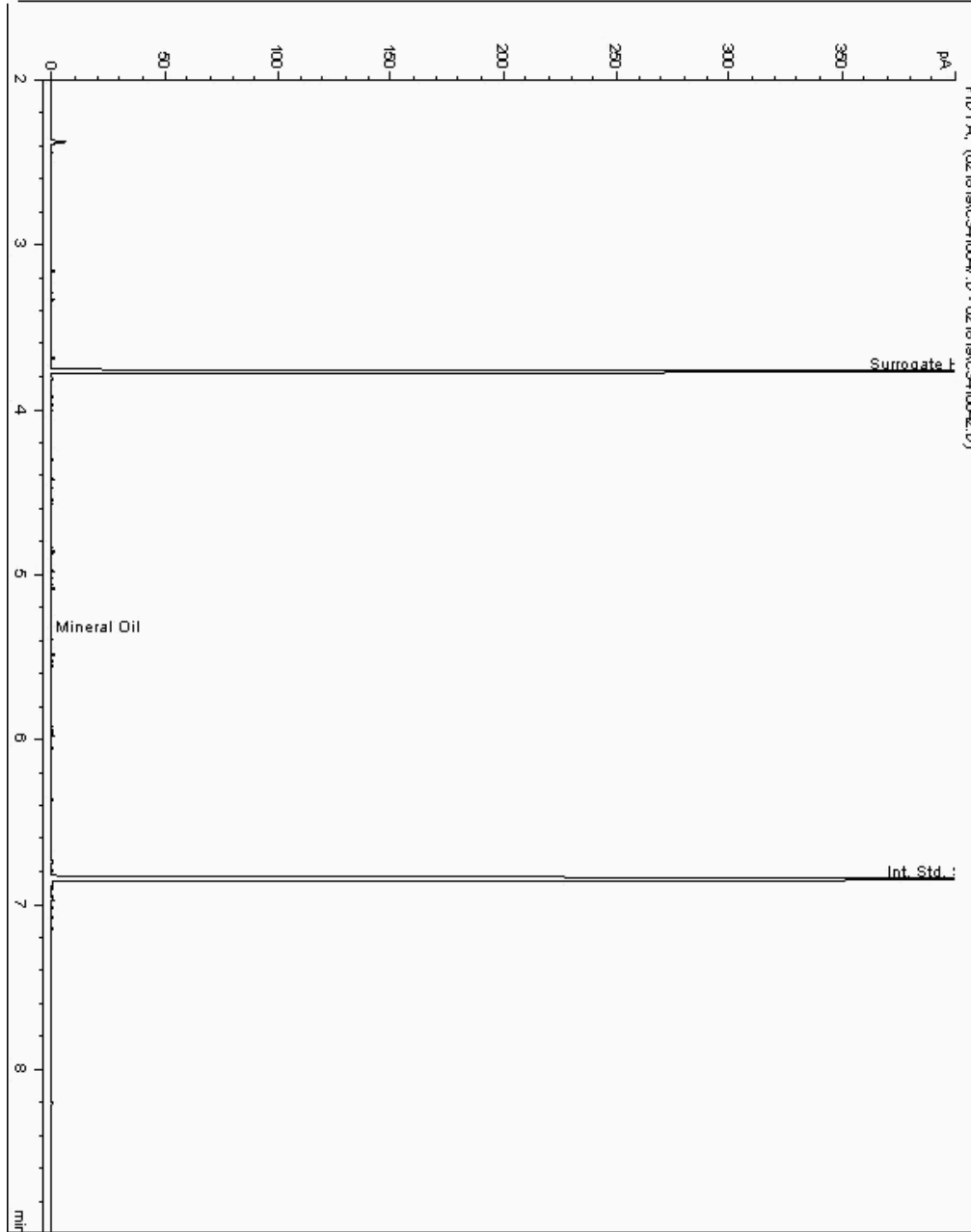
Analysis: Mineral Oil
19351925

Sample No :
Sample ID : BH250

19,351,925 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112883-
Date Acquired : 18/02/19 21:56:29 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

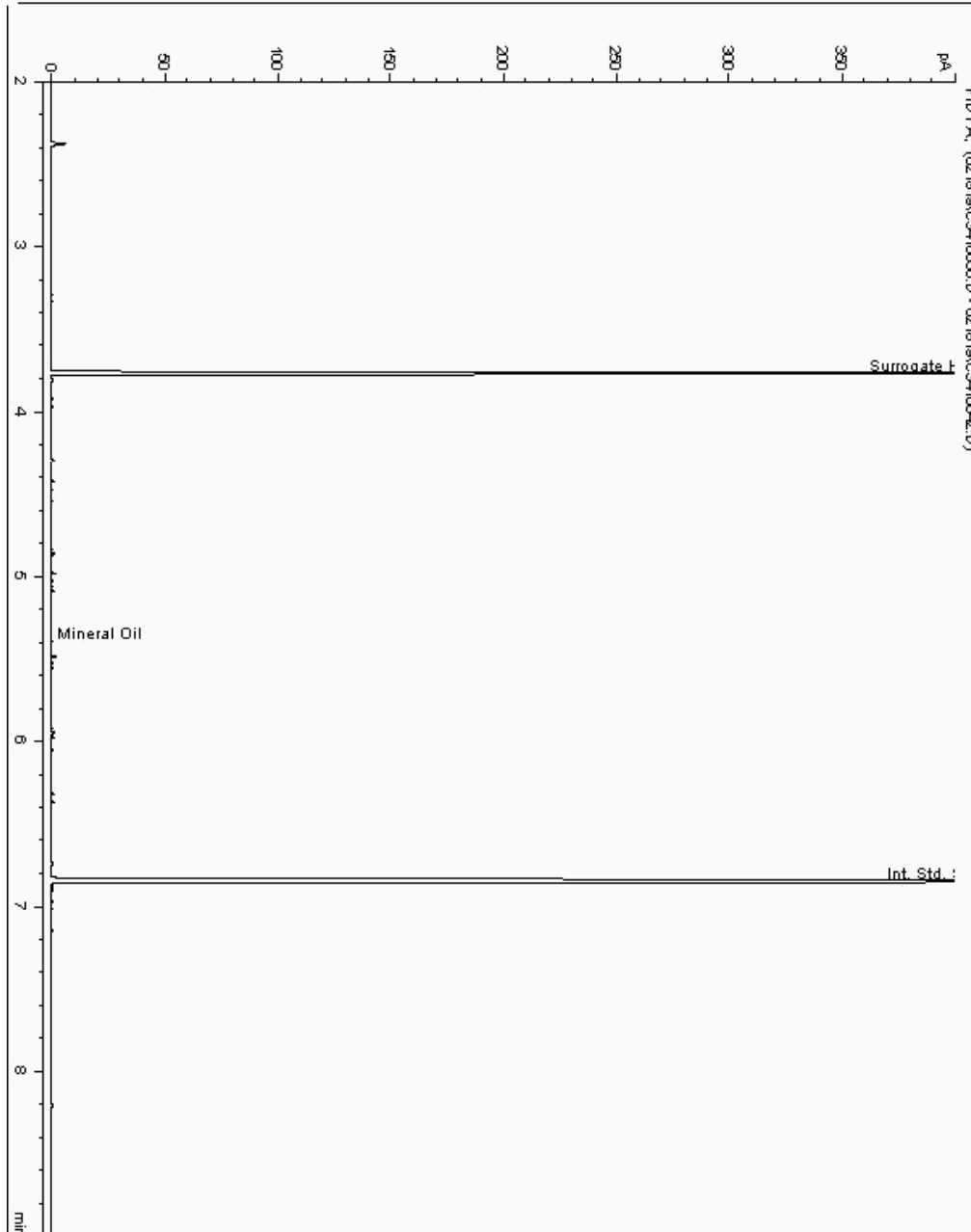
Analysis: Mineral Oil
19351991

Sample No :
Sample ID : BH241

19,351,991 Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112692-
Date Acquired : 18/02/19 22:57:23 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

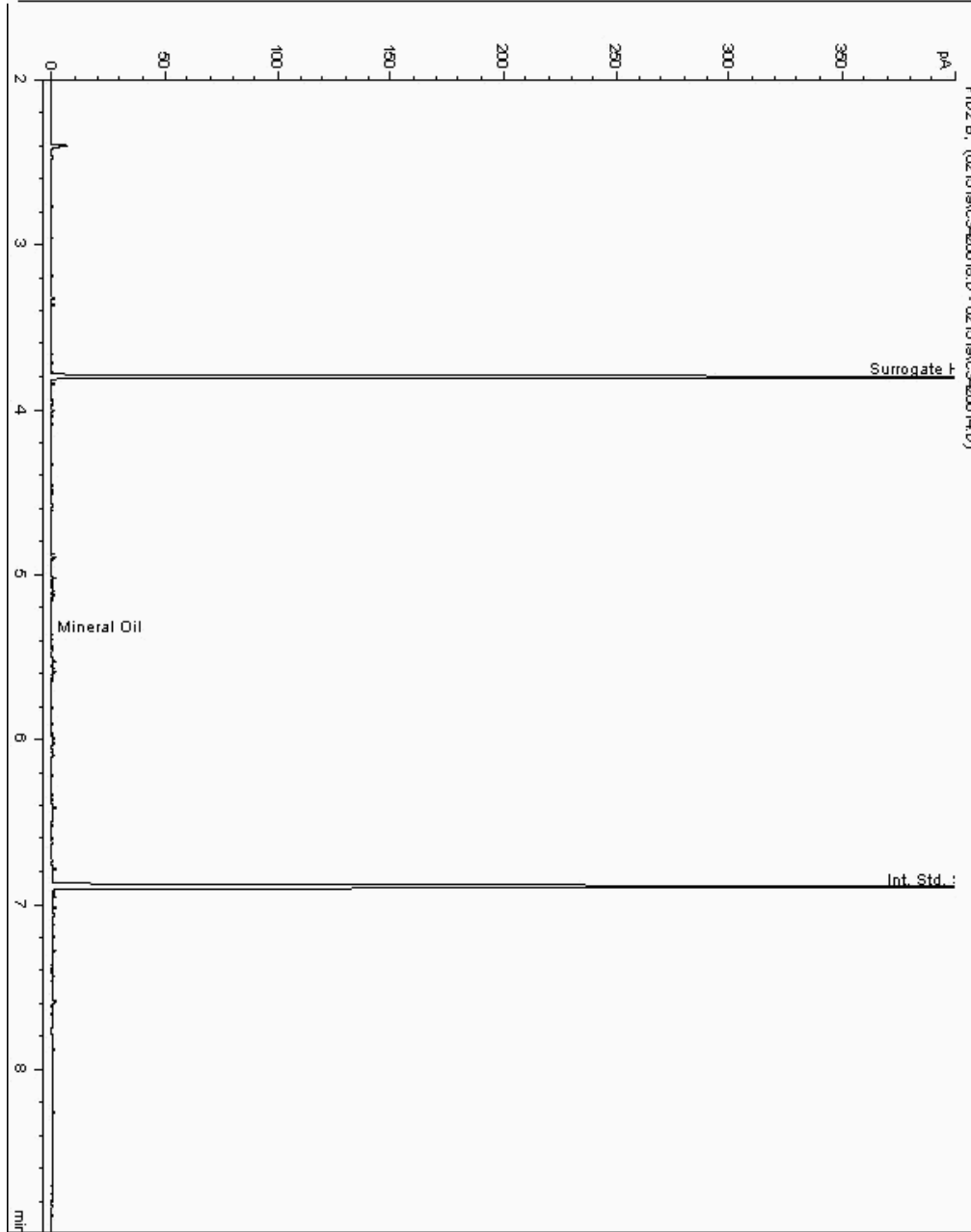
Analysis: Mineral Oil
19352206

Sample No :
Sample ID : BH250

19,352,206Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112205-
Date Acquired : 15/02/19 15:34:51 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

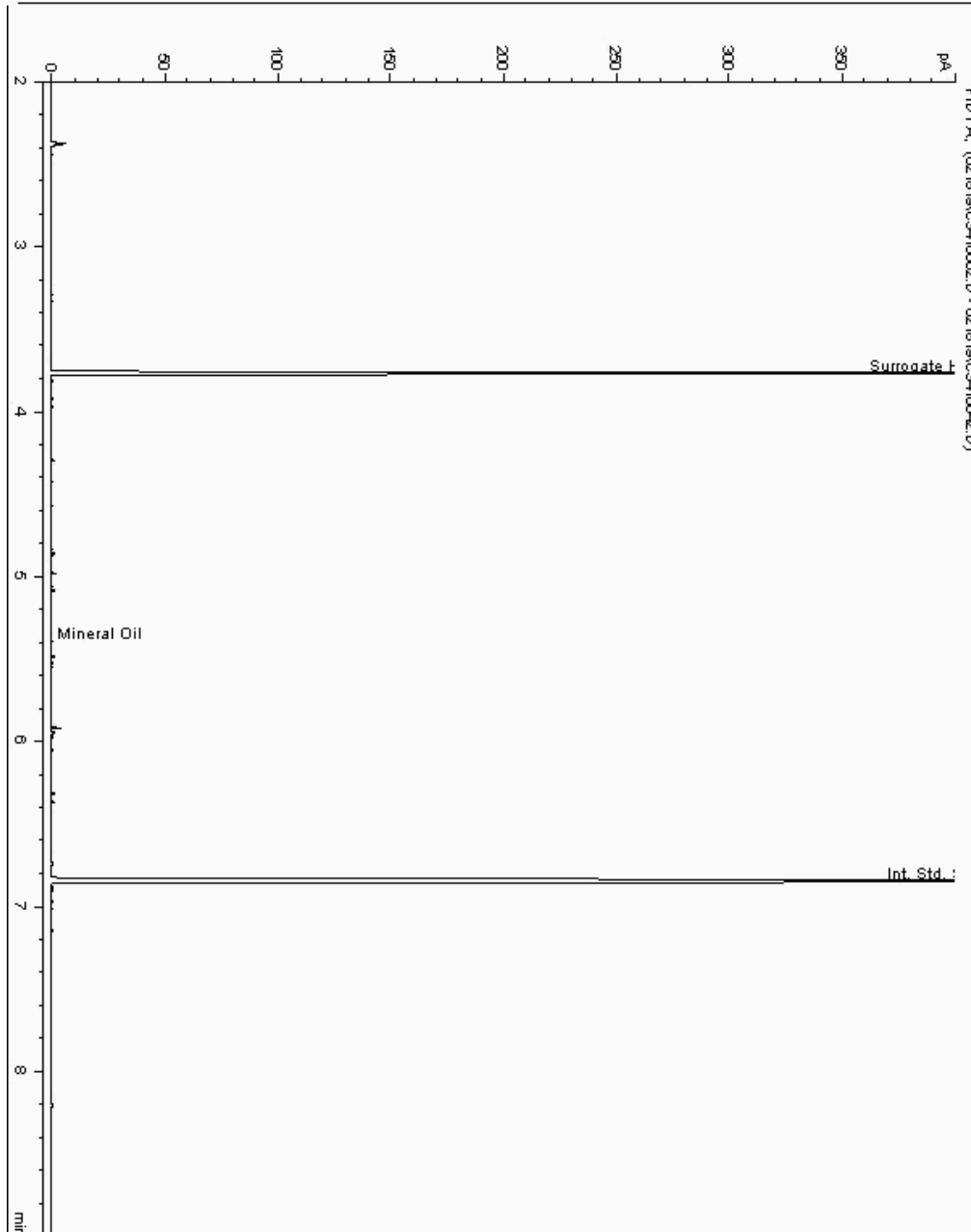
Analysis: Mineral Oil
19352257

Sample No :
Sample ID : BH250

19,352,257 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112413-
Date Acquired : 19/02/19 02:44:44 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

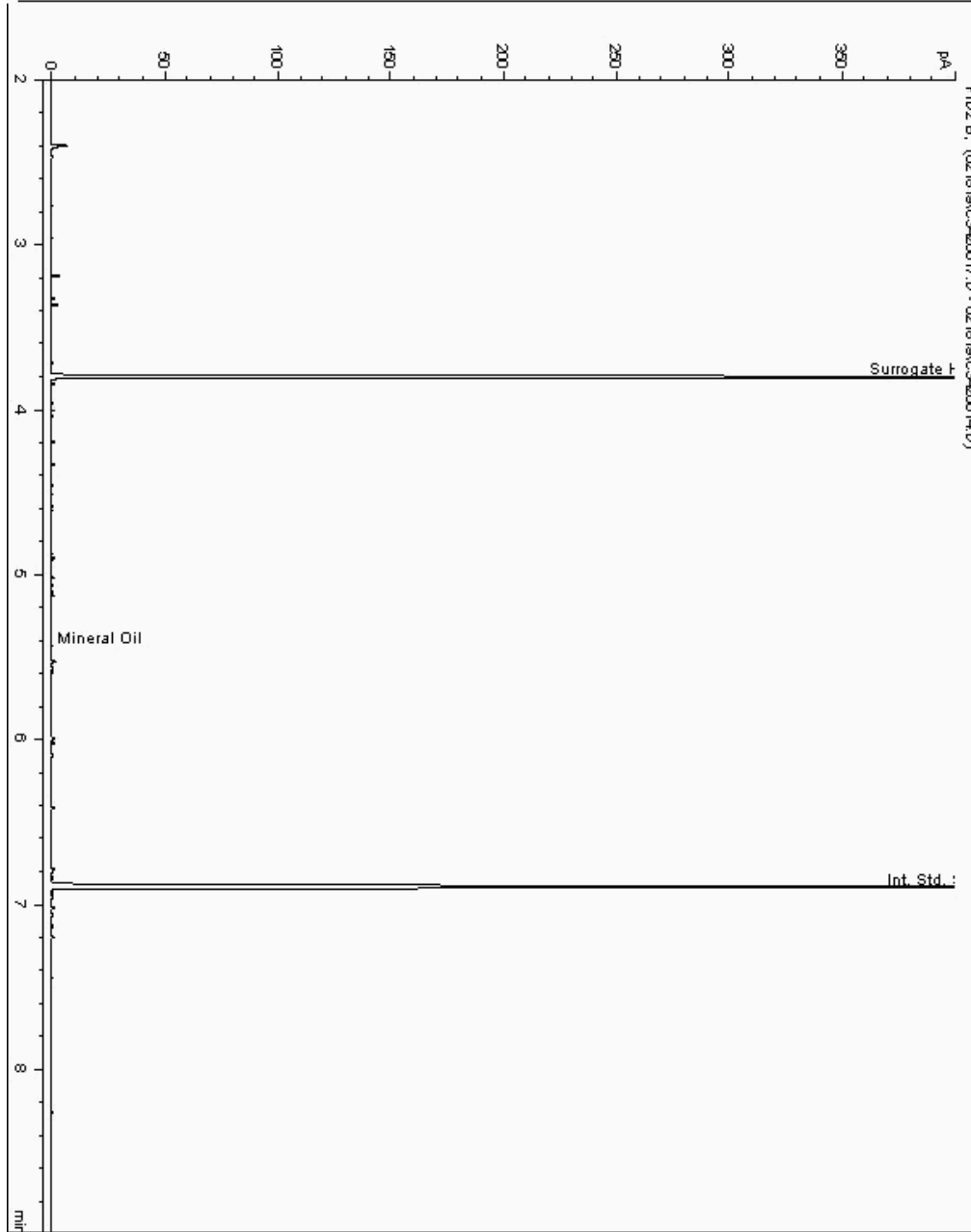
Analysis: Mineral Oil
19352364

Sample No :
Sample ID : BH250

19,352,364 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112437-
Date Acquired : 18/02/19 12:10:37 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

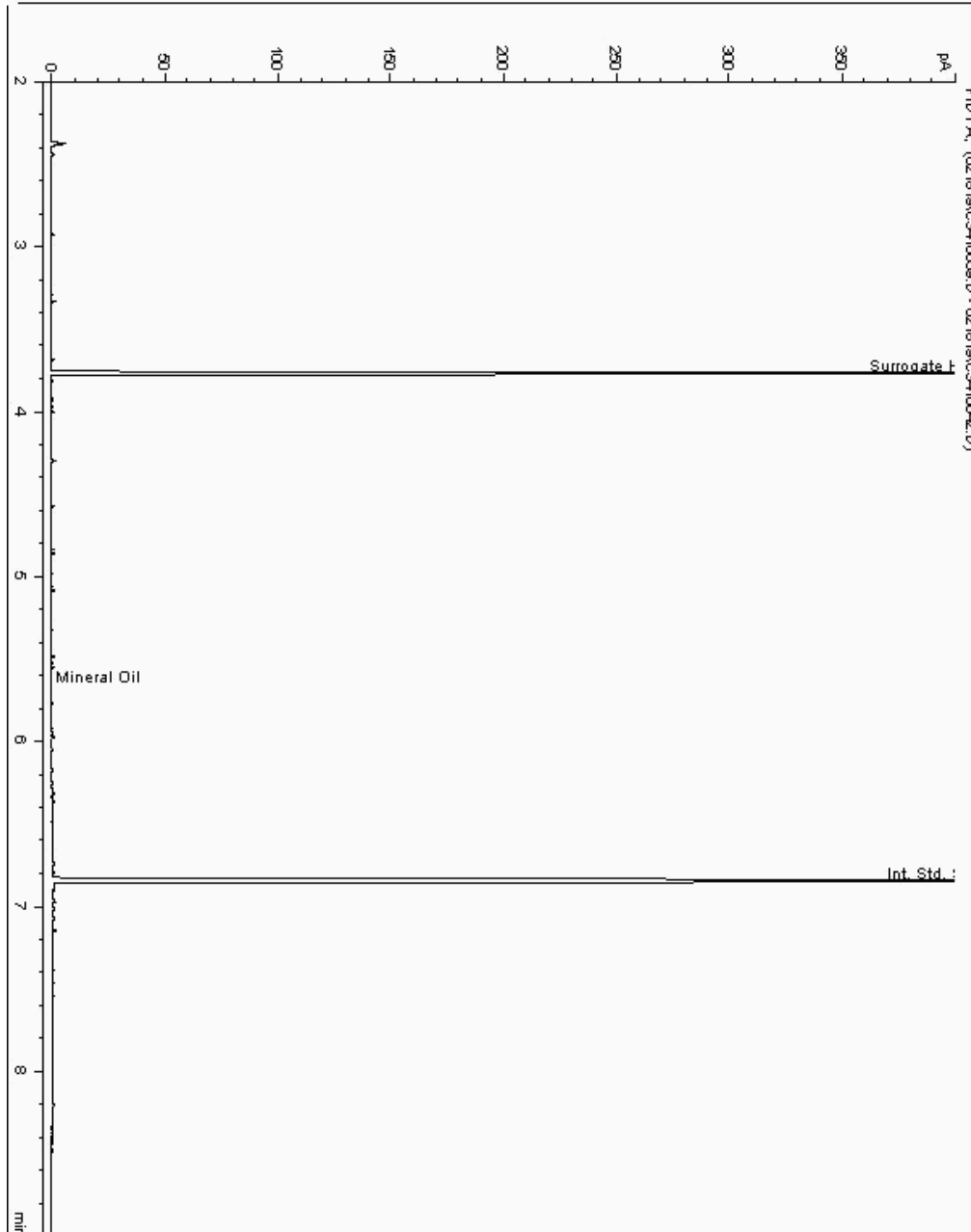
Analysis: Mineral Oil
19352516

Sample No :
Sample ID : BH241

19,352,516 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112765-
Date Acquired : 19/02/19 01:43:52 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

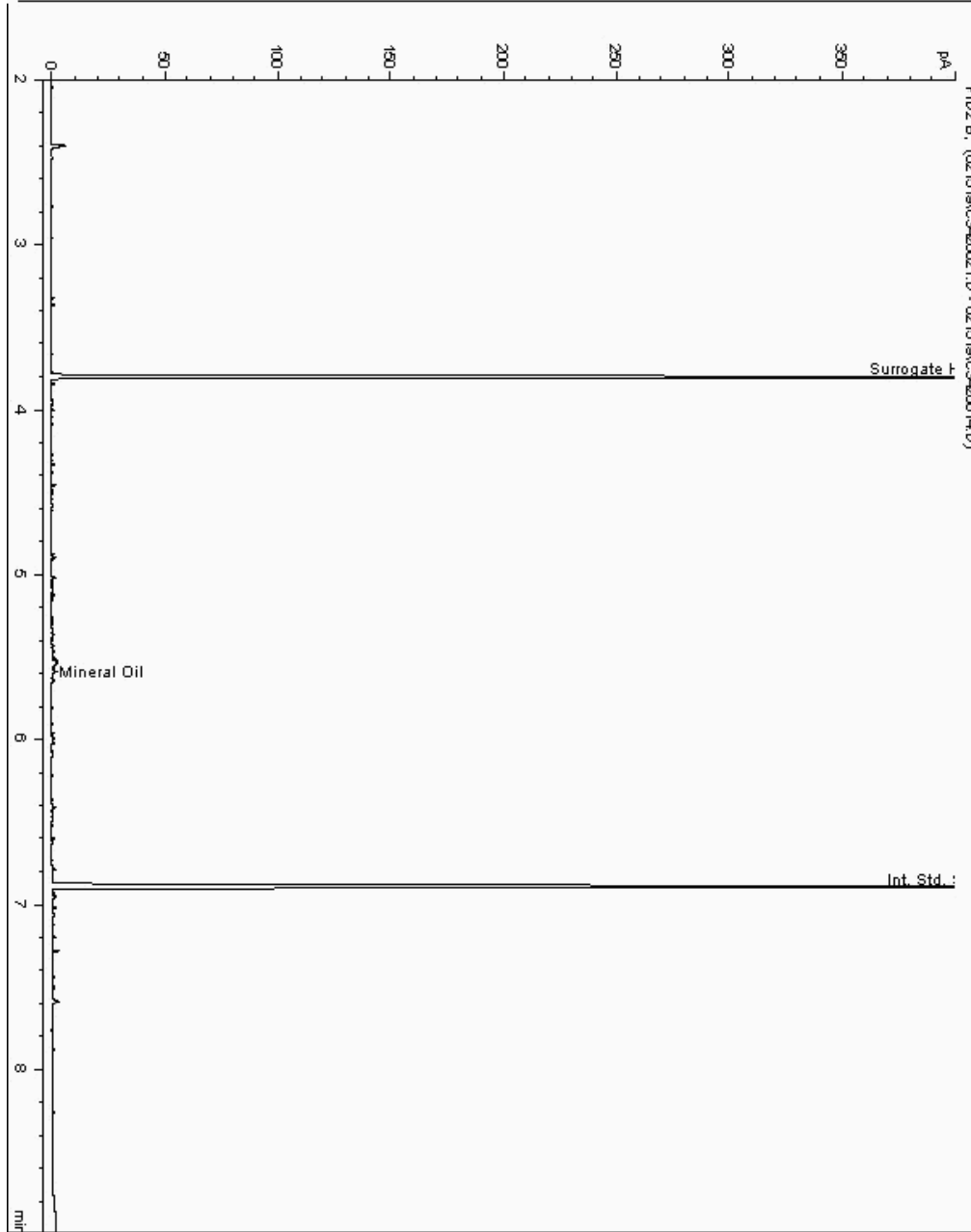
Analysis: Mineral Oil
19352520

Sample No :
Sample ID : BH241

19,352,520Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112604-
Date Acquired : 15/02/19 16:35:27 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

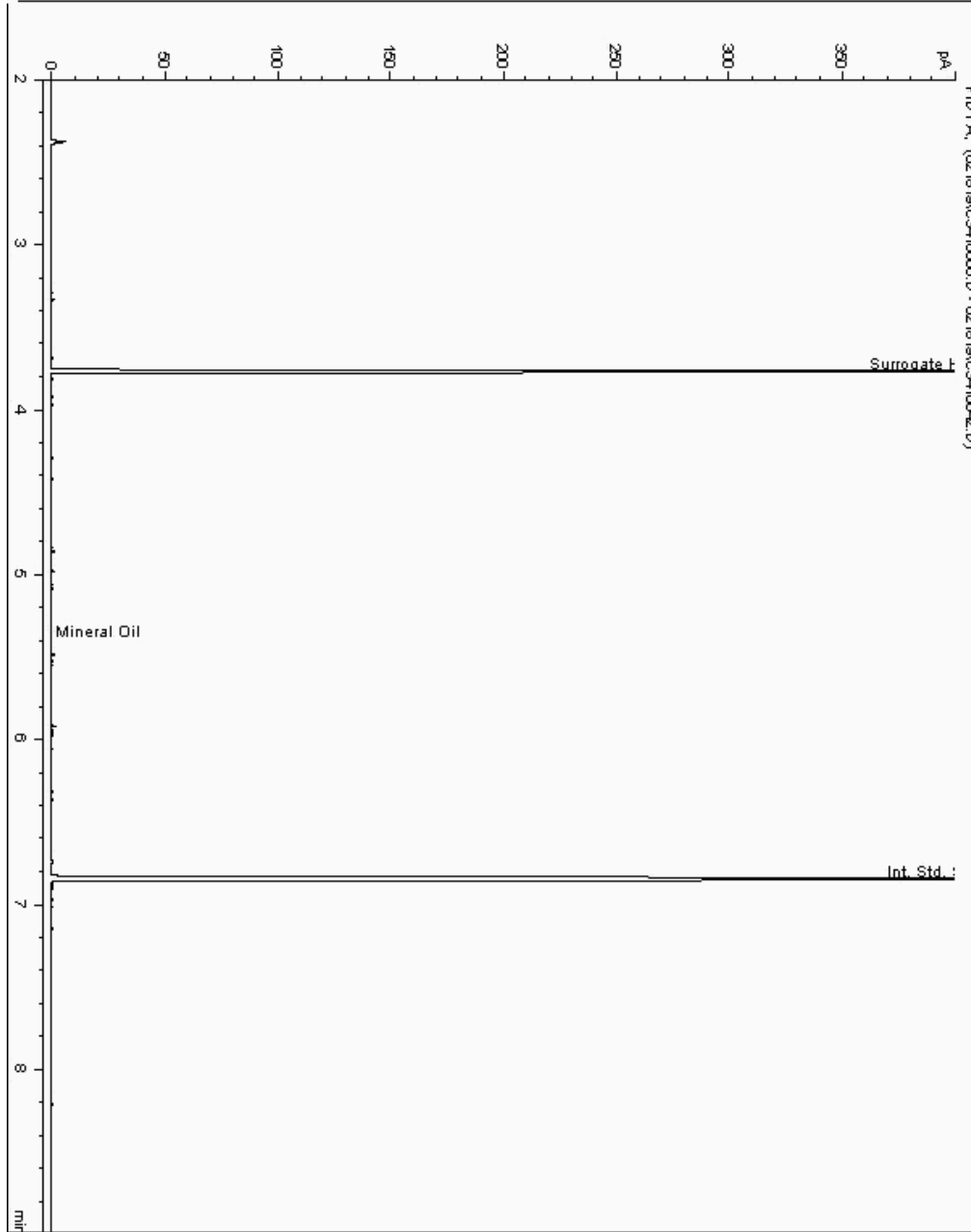
Analysis: Mineral Oil
19352753

Sample No :
Sample ID : BH241

19,352,753 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112742-
Date Acquired : 19/02/19 02:04:04 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

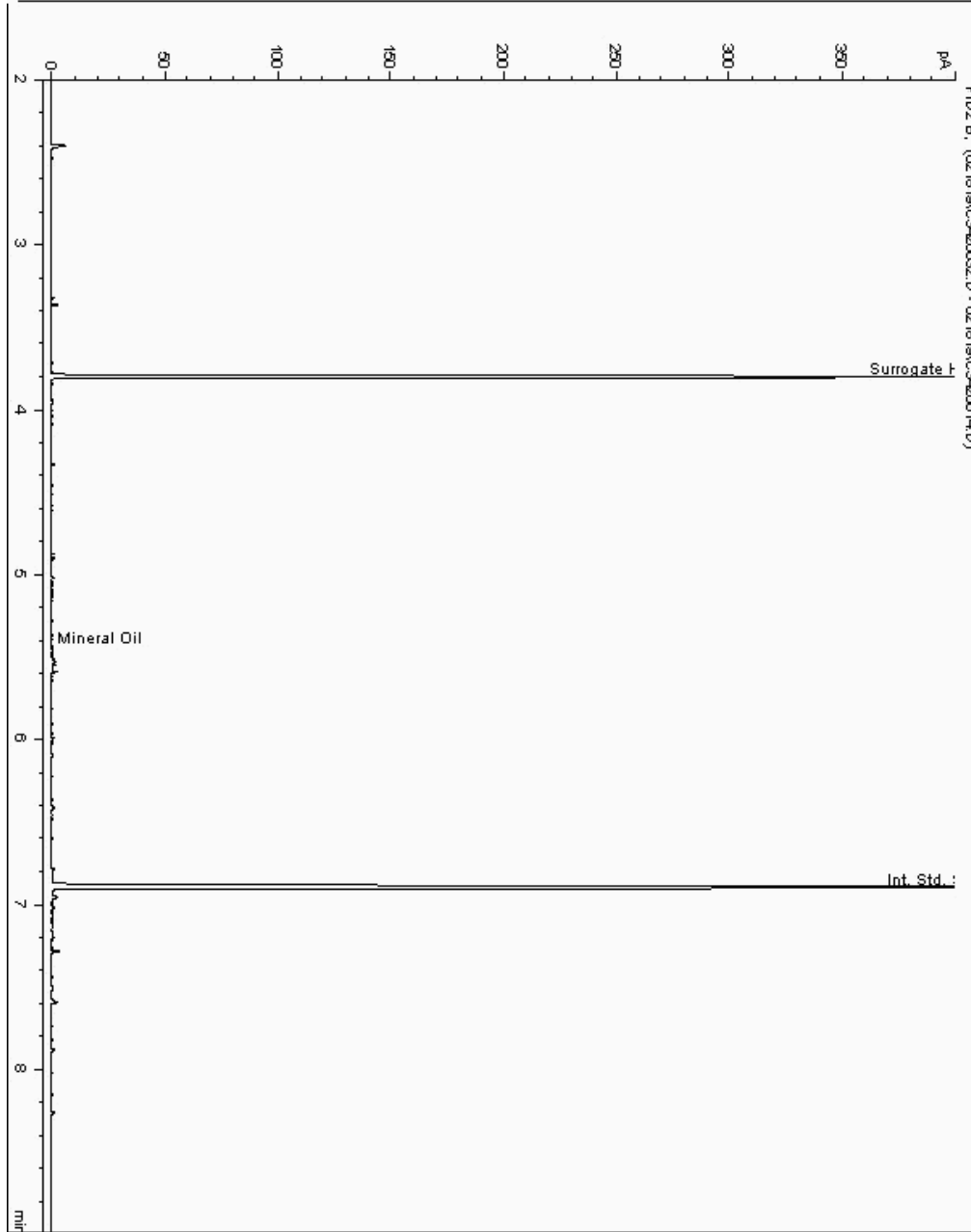
Analysis: Mineral Oil
19352827

Sample No :
Sample ID : BH250

19,352,827Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112315-
Date Acquired : 18/02/19 17:24:14 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

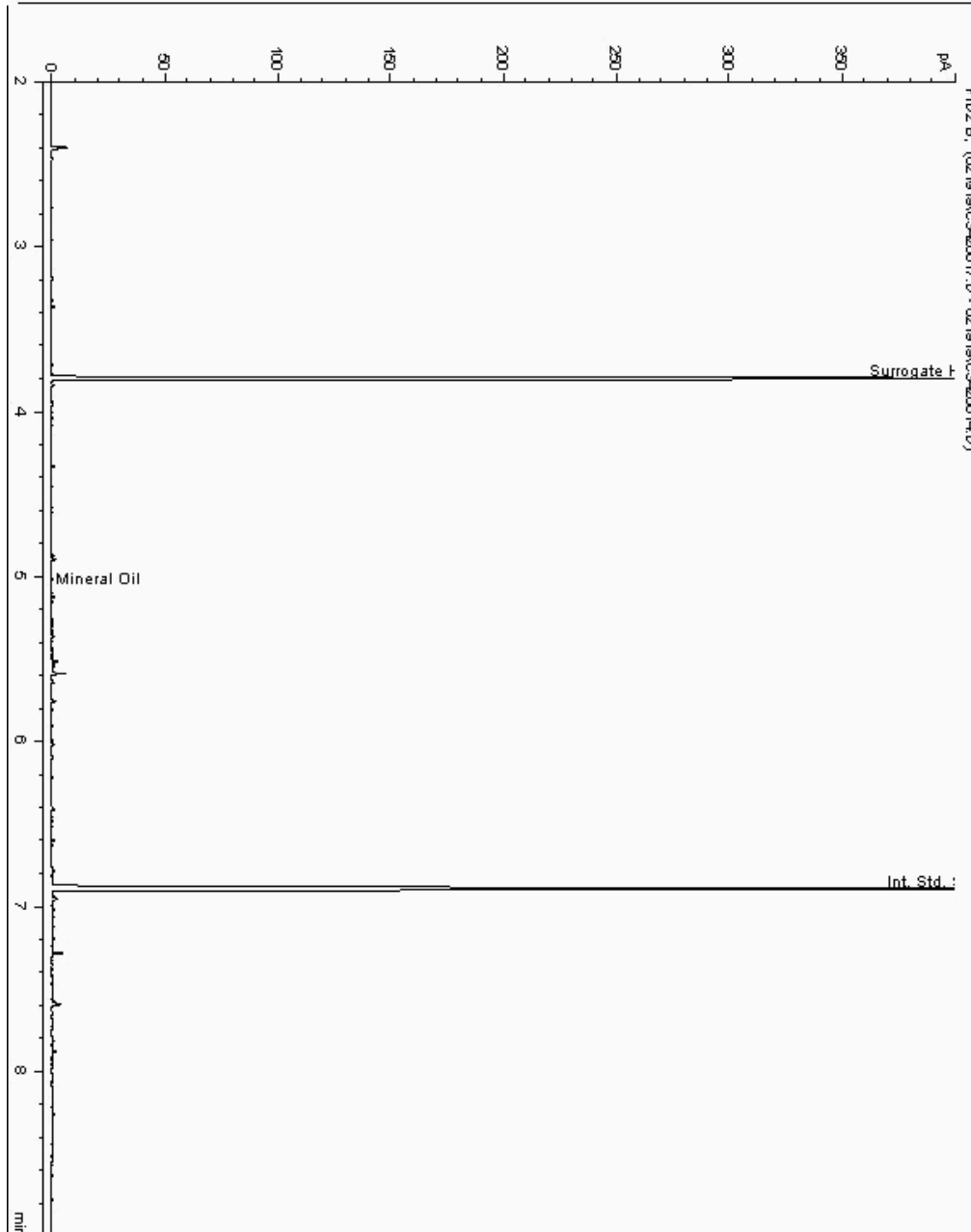
Analysis: Mineral Oil
19352985

Sample No :
Sample ID : BH250

19,352,985Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112281-
Date Acquired : 19/02/19 11:50:12 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

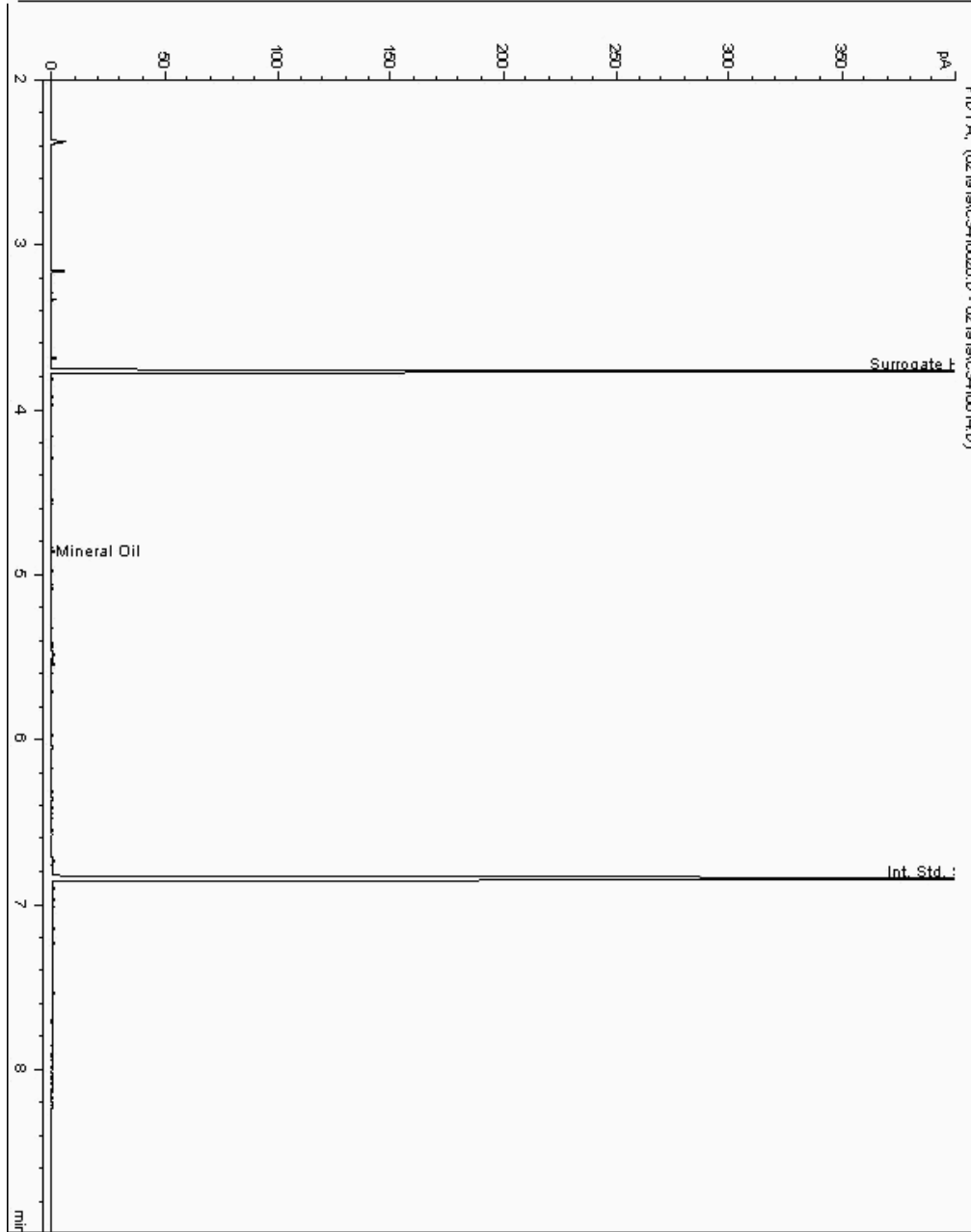
Analysis: Mineral Oil
19353159

Sample No :
Sample ID : BH241

19,353,159 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112637-
Date Acquired : 19/02/19 12:43:03 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

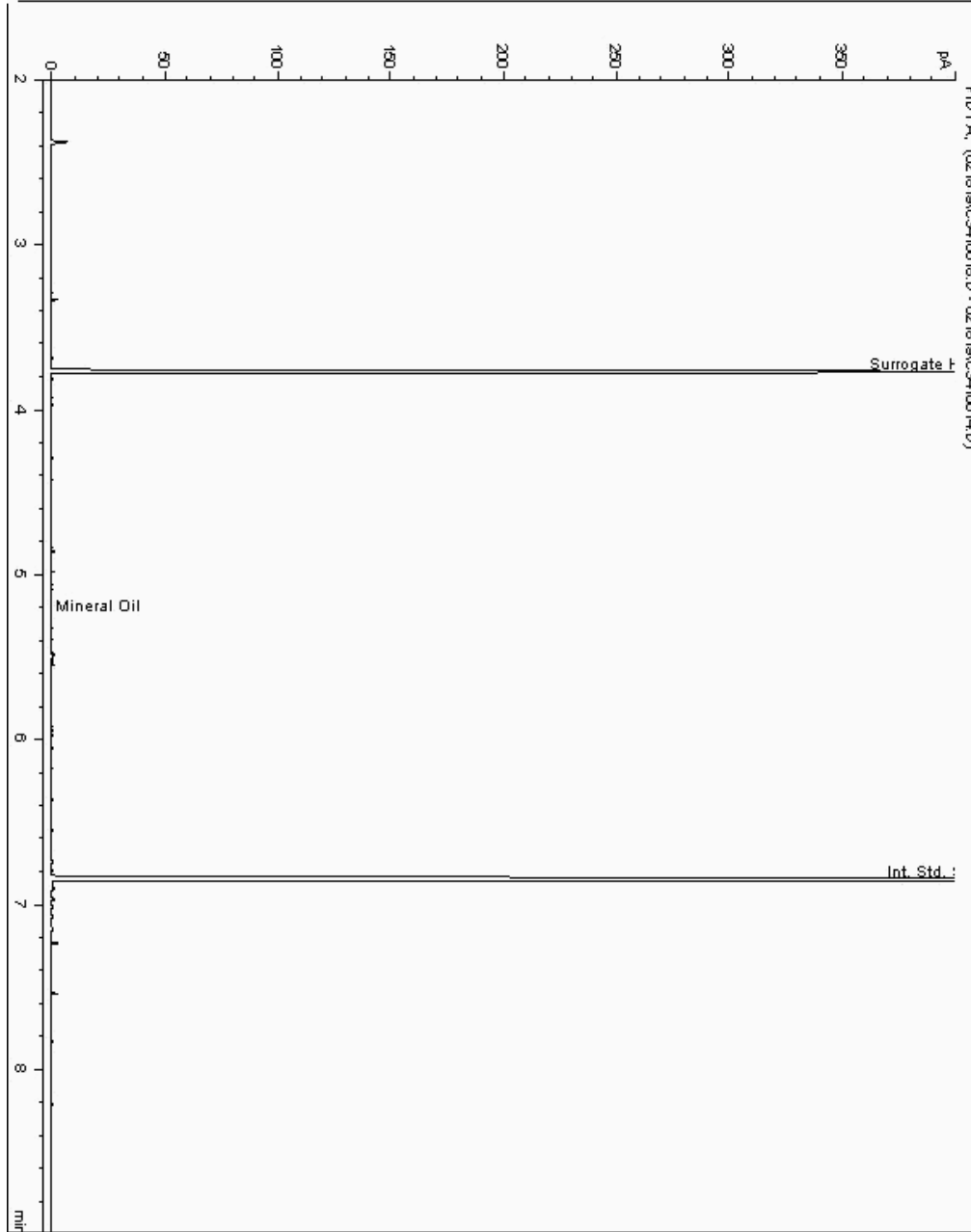
Analysis: Mineral Oil
19353382

Sample No :
Sample ID : BH250

19,353,382Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112363-
Date Acquired : 18/02/19 12:30:55 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

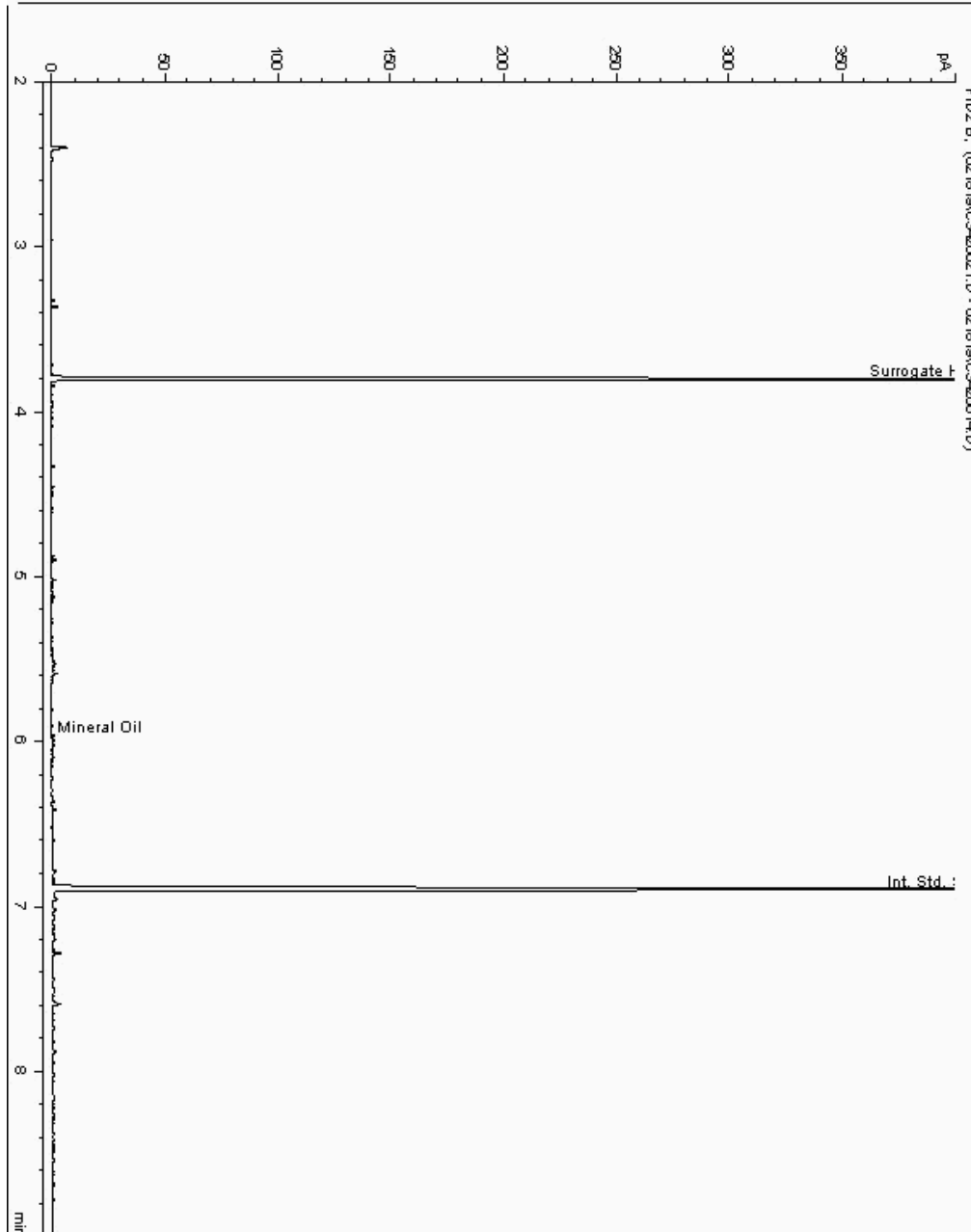
Analysis: Mineral Oil
19353422

Sample No :
Sample ID : BH250

19,353,422Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112337-
Date Acquired : 18/02/19 13:44:17 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

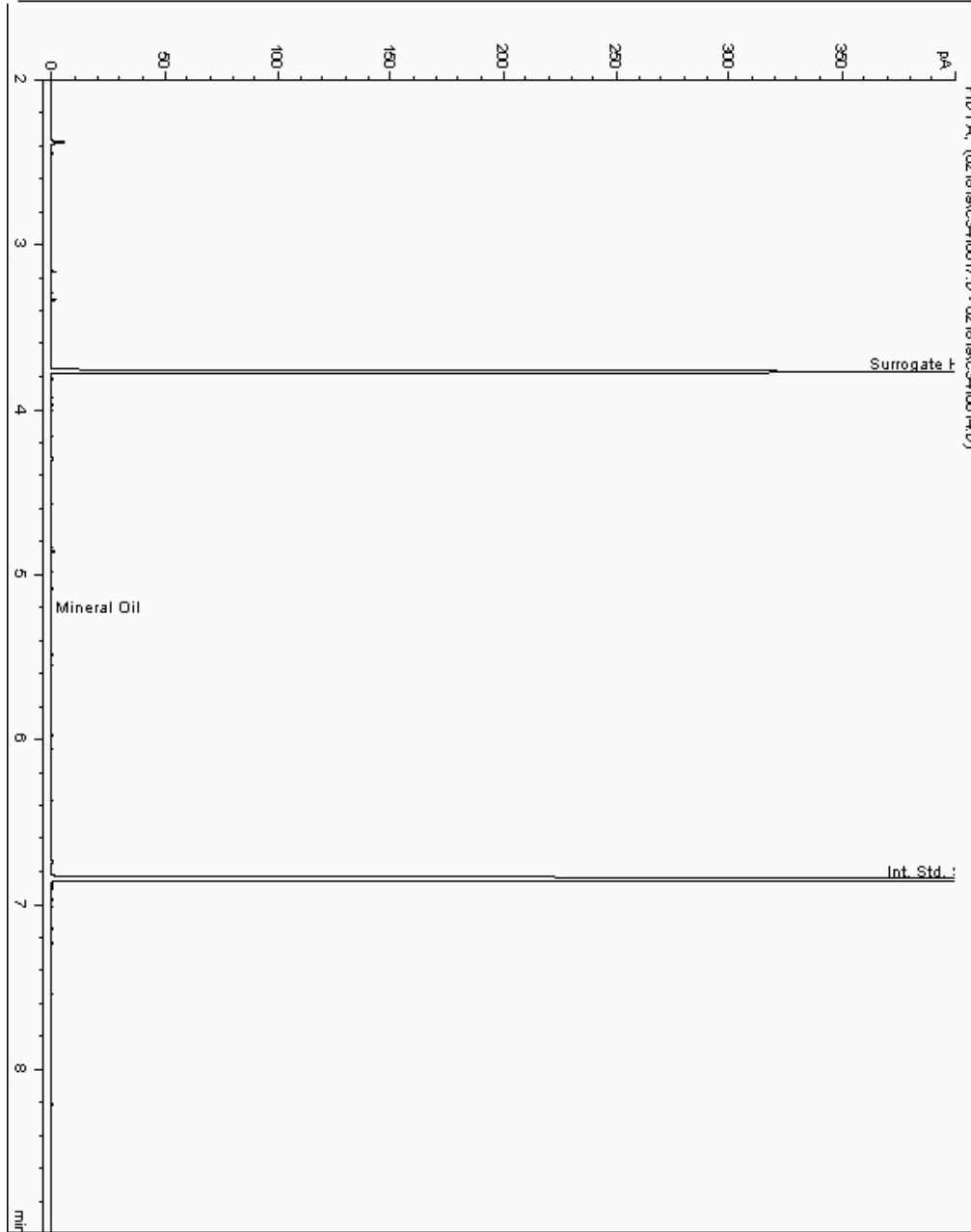
Analysis: Mineral Oil
19353461

Sample No :
Sample ID : BH241

19,353,461 Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112492-
Date Acquired : 18/02/19 12:10:37 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

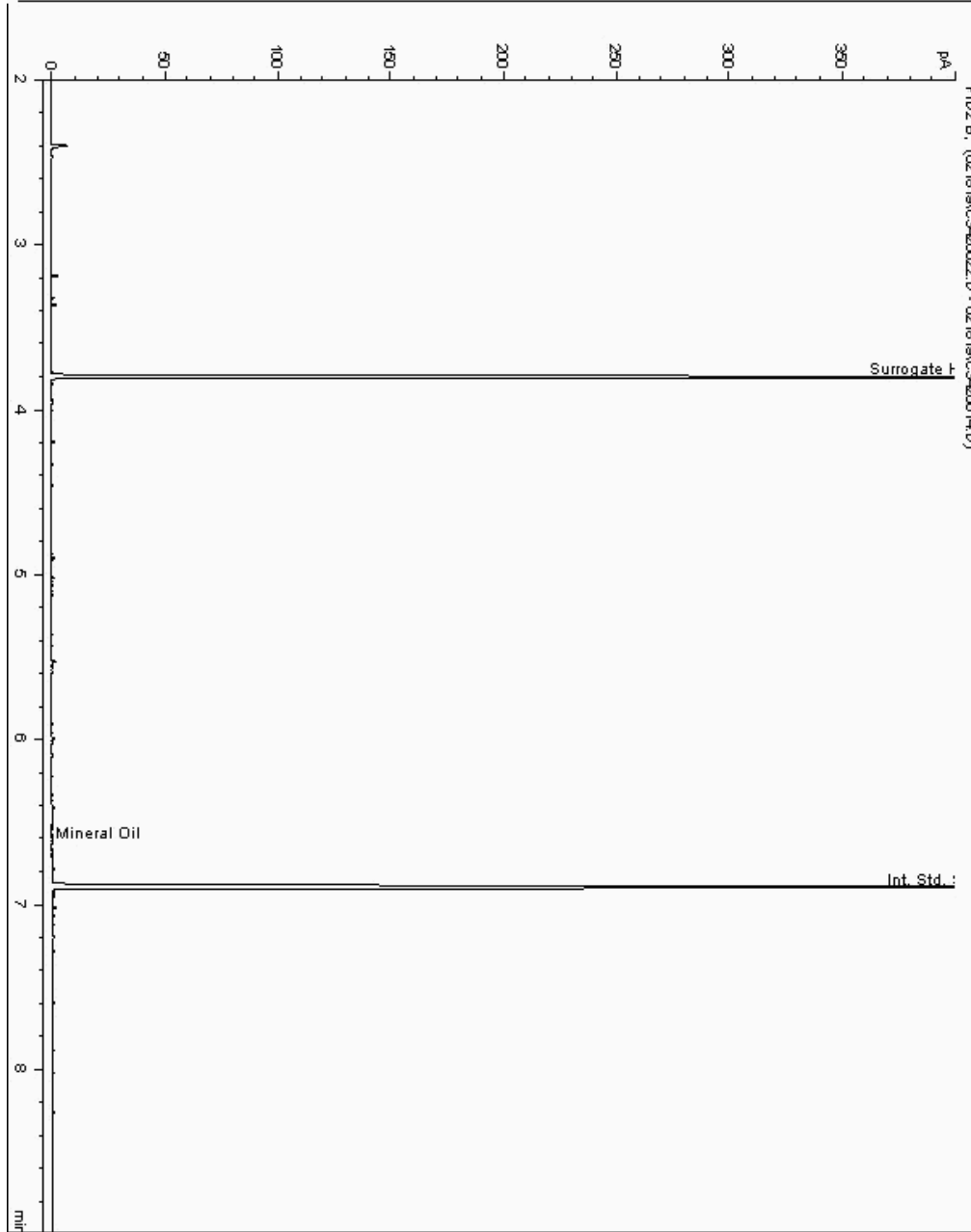
Analysis: Mineral Oil
19353492

Sample No :
Sample ID : BH241

19,353,492Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112580-
Date Acquired : 18/02/19 14:04:47 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

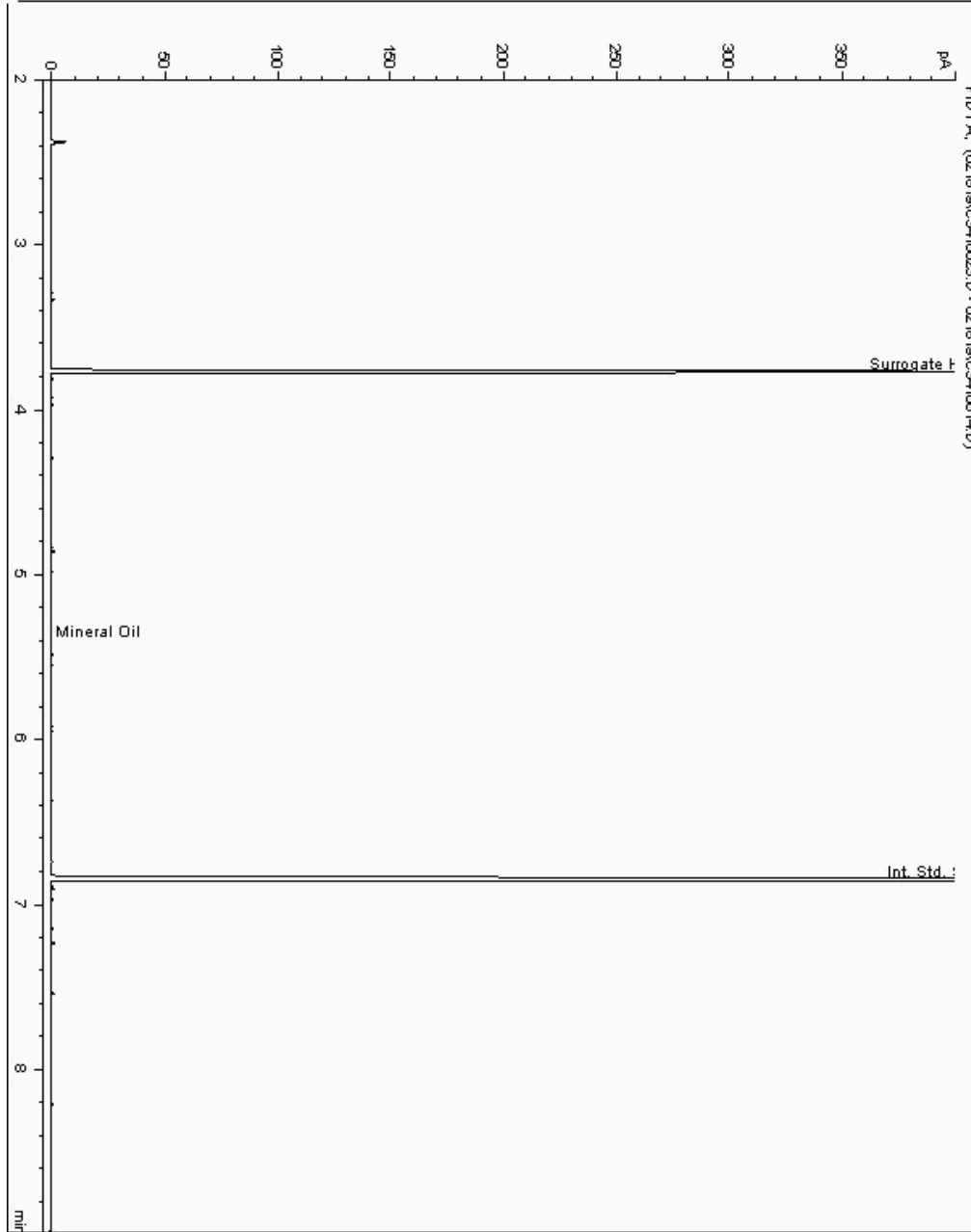
Analysis: Mineral Oil
19353634

Sample No :
Sample ID : BH250

19,353,634 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112252-
Date Acquired : 18/02/19 14:25:16 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

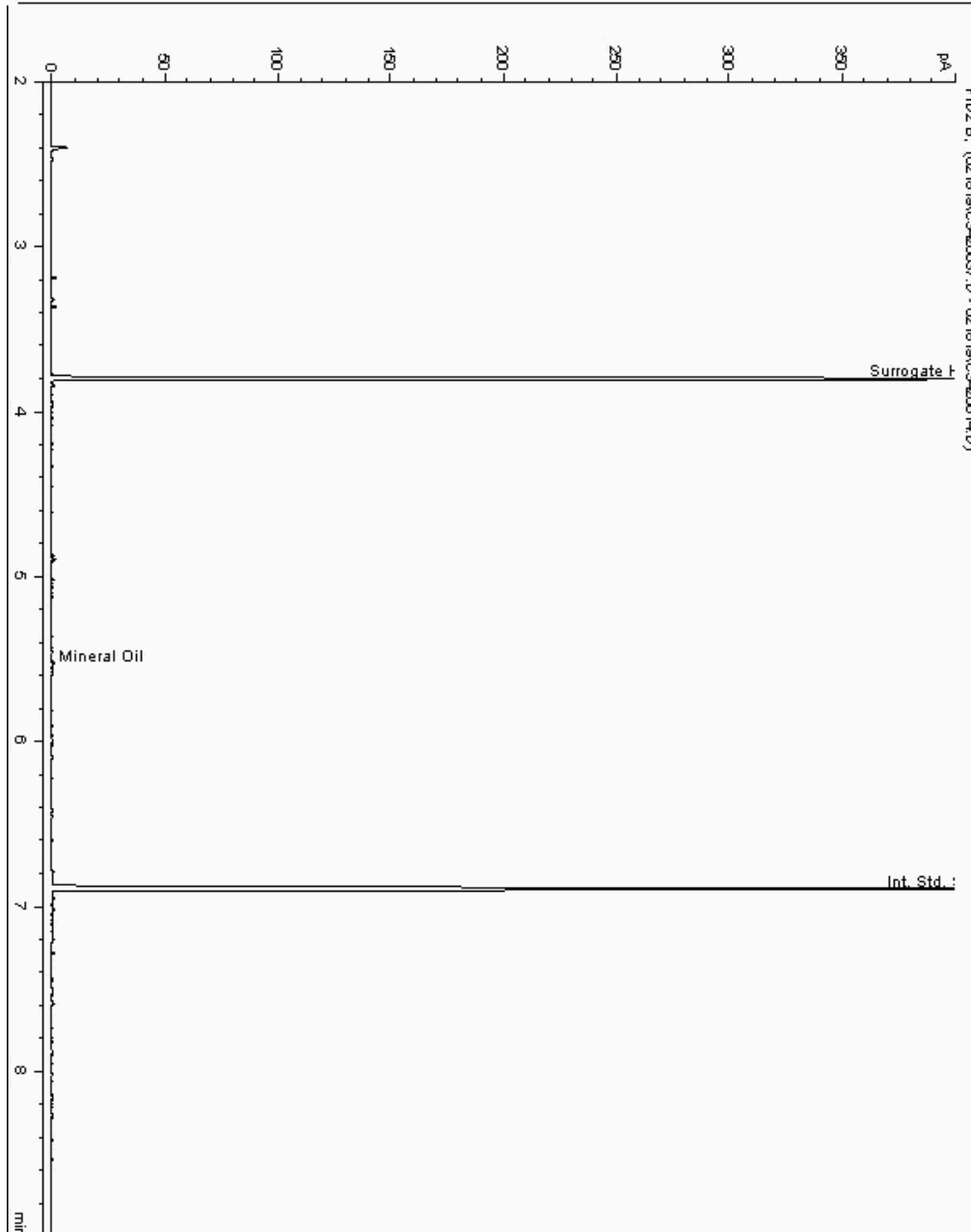
Analysis: Mineral Oil
19353654

Sample No :
Sample ID : BH241

19,353,654 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112548-
Date Acquired : 18/02/19 18:49:55 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

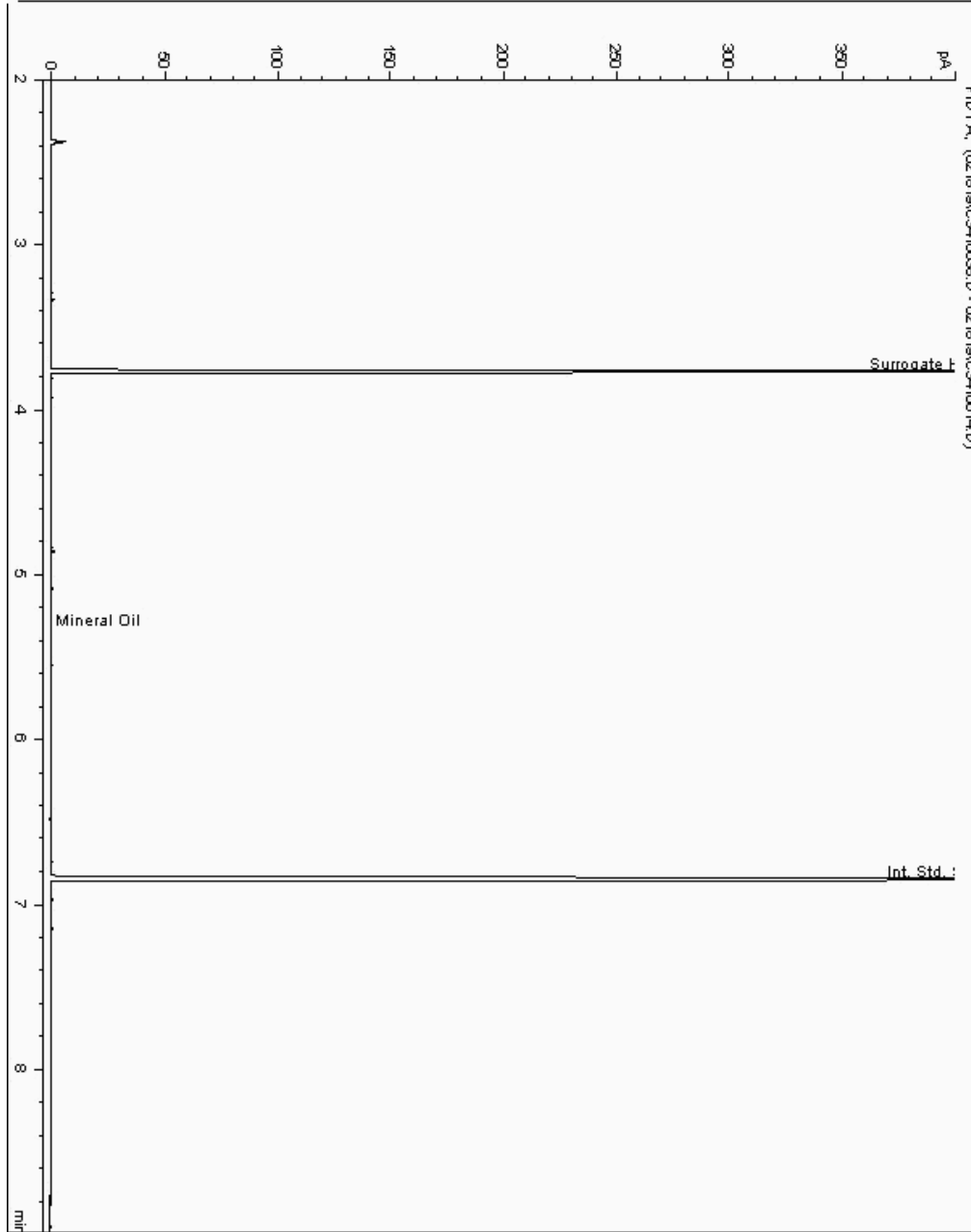
Analysis: Mineral Oil
19353670

Sample No :
Sample ID : BH241

19,353,670 Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112667-
Date Acquired : 18/02/19 19:10:03 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

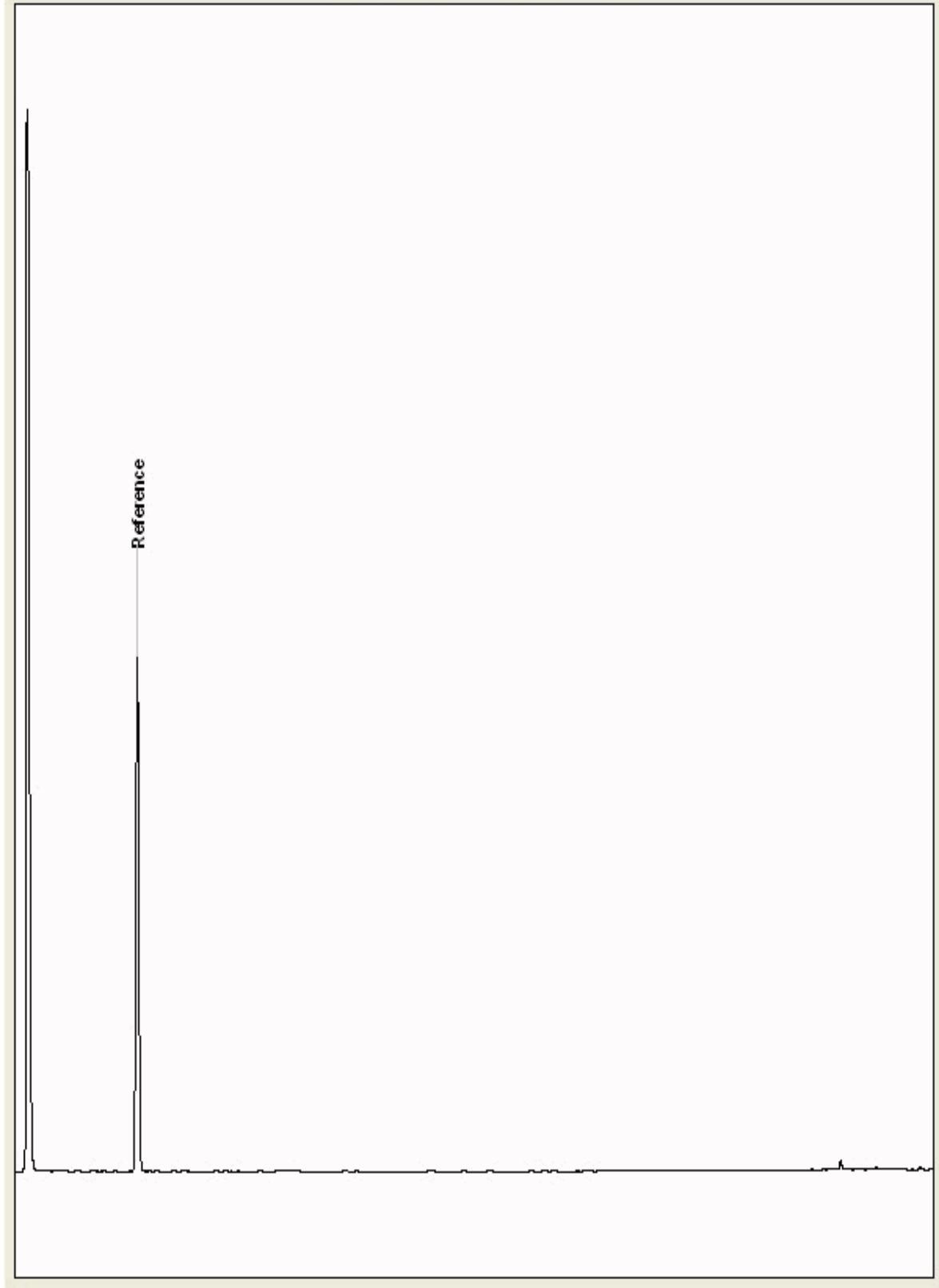
Chromatogram

Analysis: GRO by GC-FID (S)
19369934

Sample No :
Sample ID : BH250

19,369,934Depth :0.50 - 1.00

19369934_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

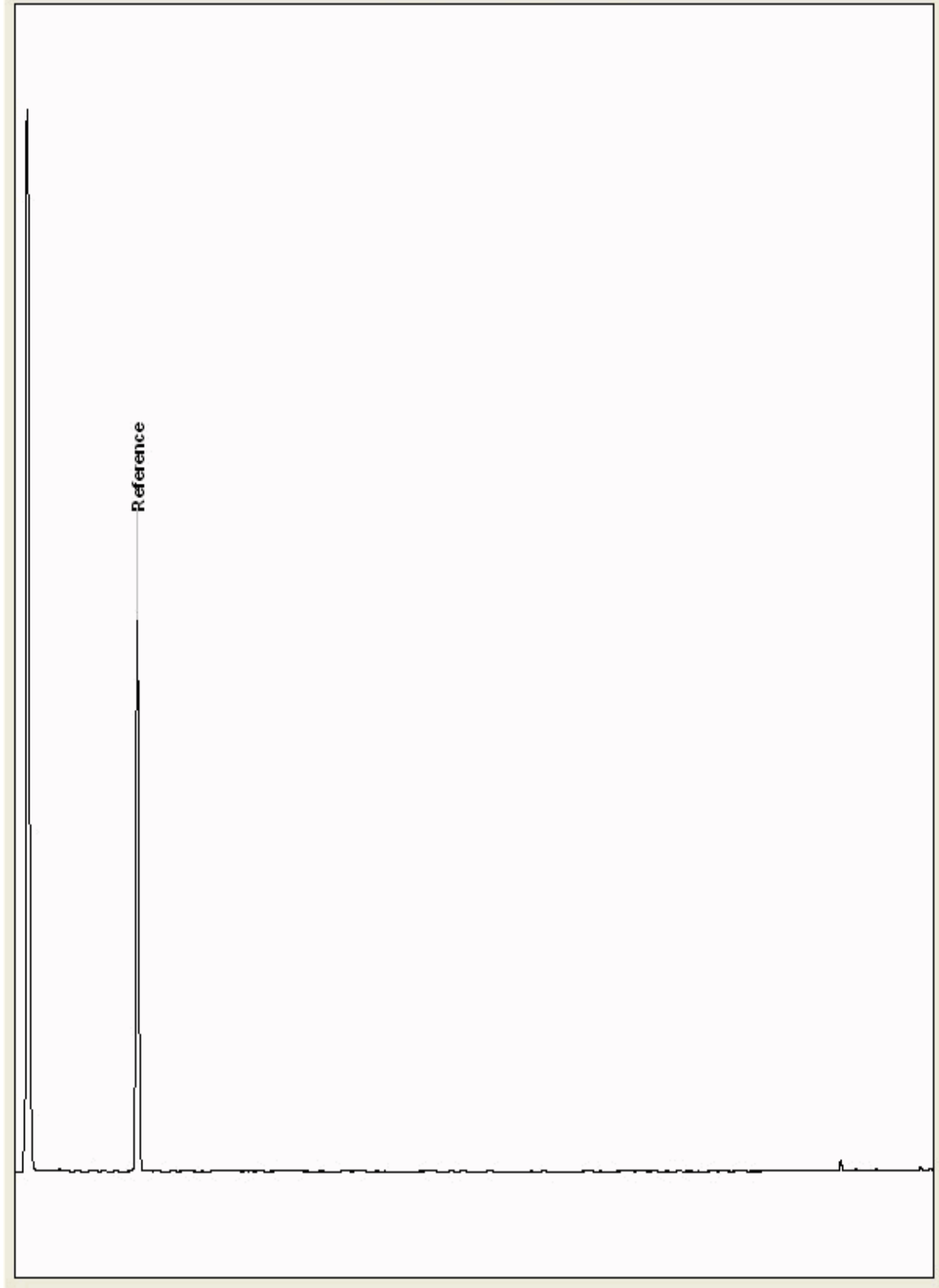
Chromatogram

Analysis: GRO by GC-FID (S)
19370054

Sample No :
Sample ID : BH250

19,370,054Depth :4.00 - 5.00

19370054_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

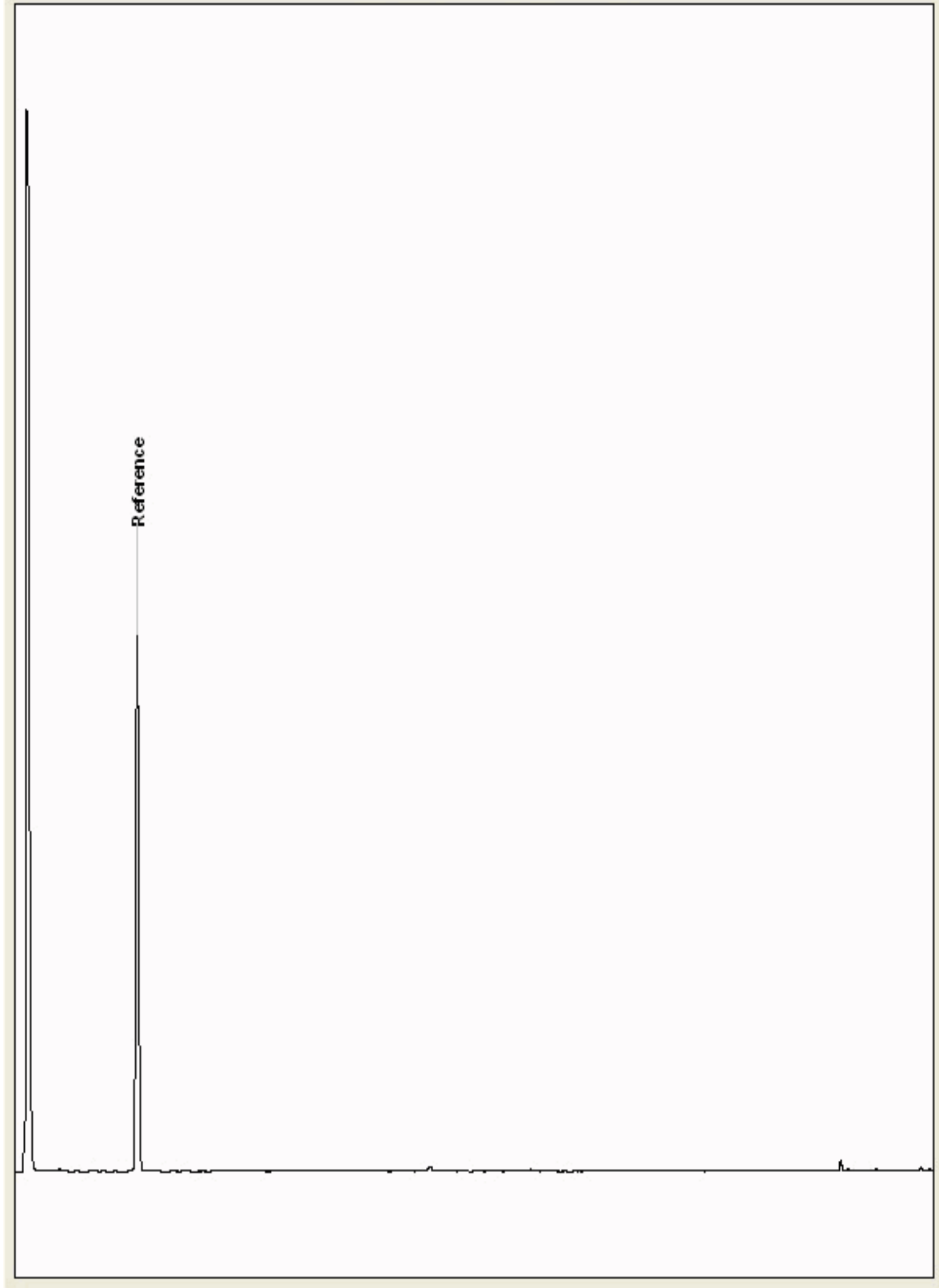
Chromatogram

Analysis: GRO by GC-FID (S)
19370123

Sample No :
Sample ID : BH250

19,370,123Depth :3.00 - 4.00

19370123_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

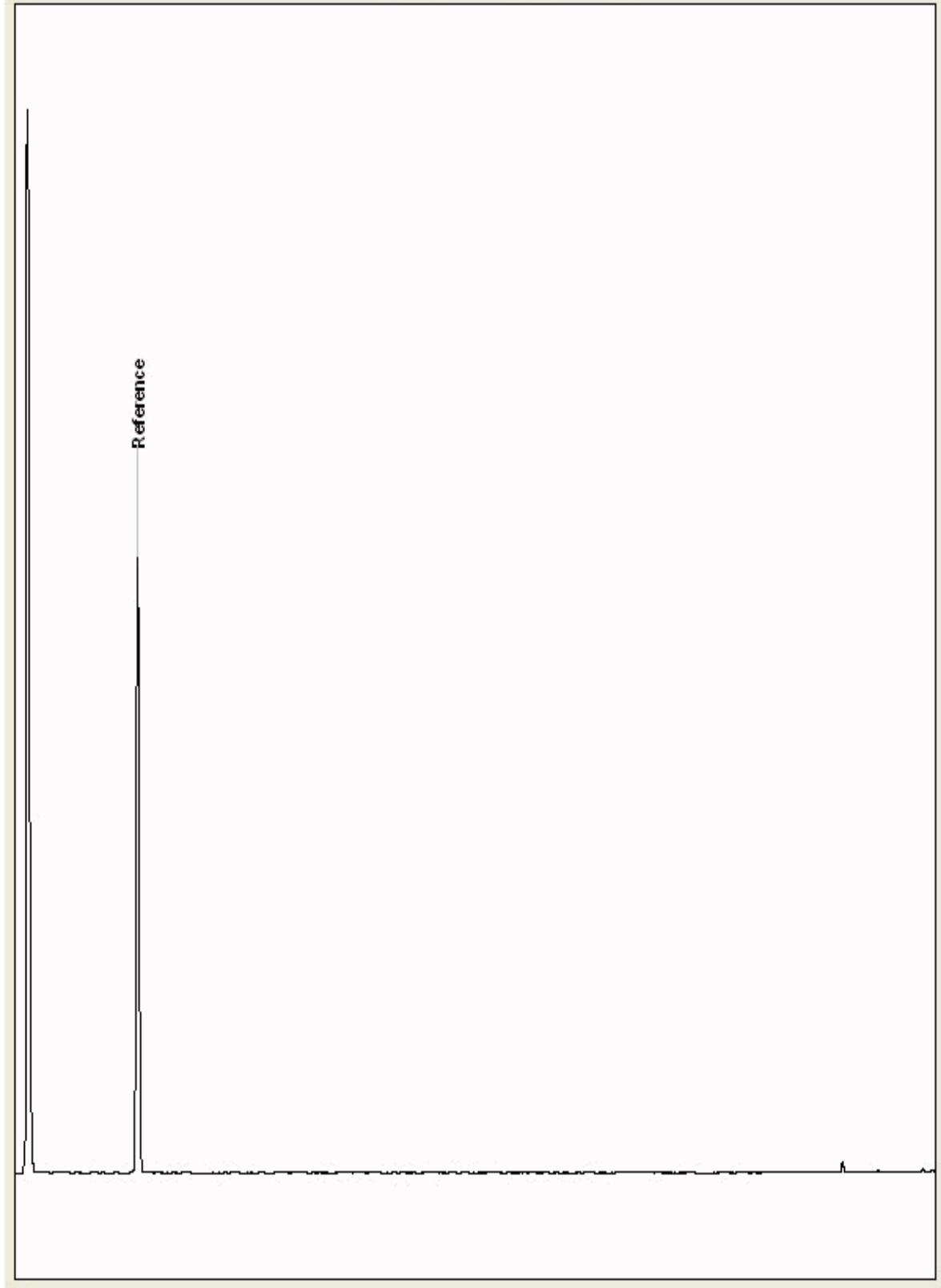
Chromatogram

Analysis: GRO by GC-FID (S)
19370200

Sample No :
Sample ID : BH241

19,370,200Depth :7.00 - 8.00

19370200_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

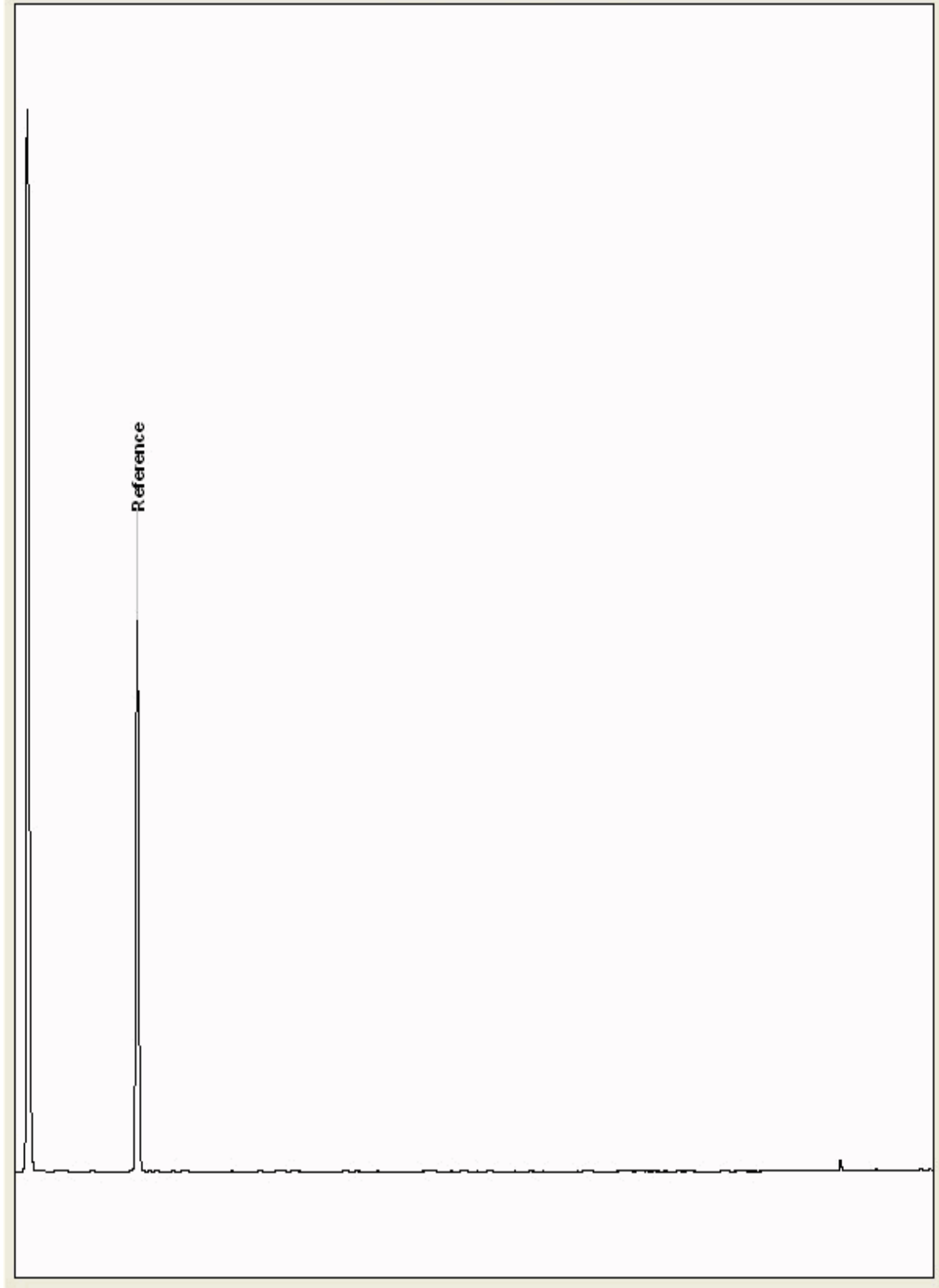
Chromatogram

Analysis: GRO by GC-FID (S)
19370255

Sample No :
Sample ID : BH241

19,370,255Depth :2.00 - 3.00

19370255_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

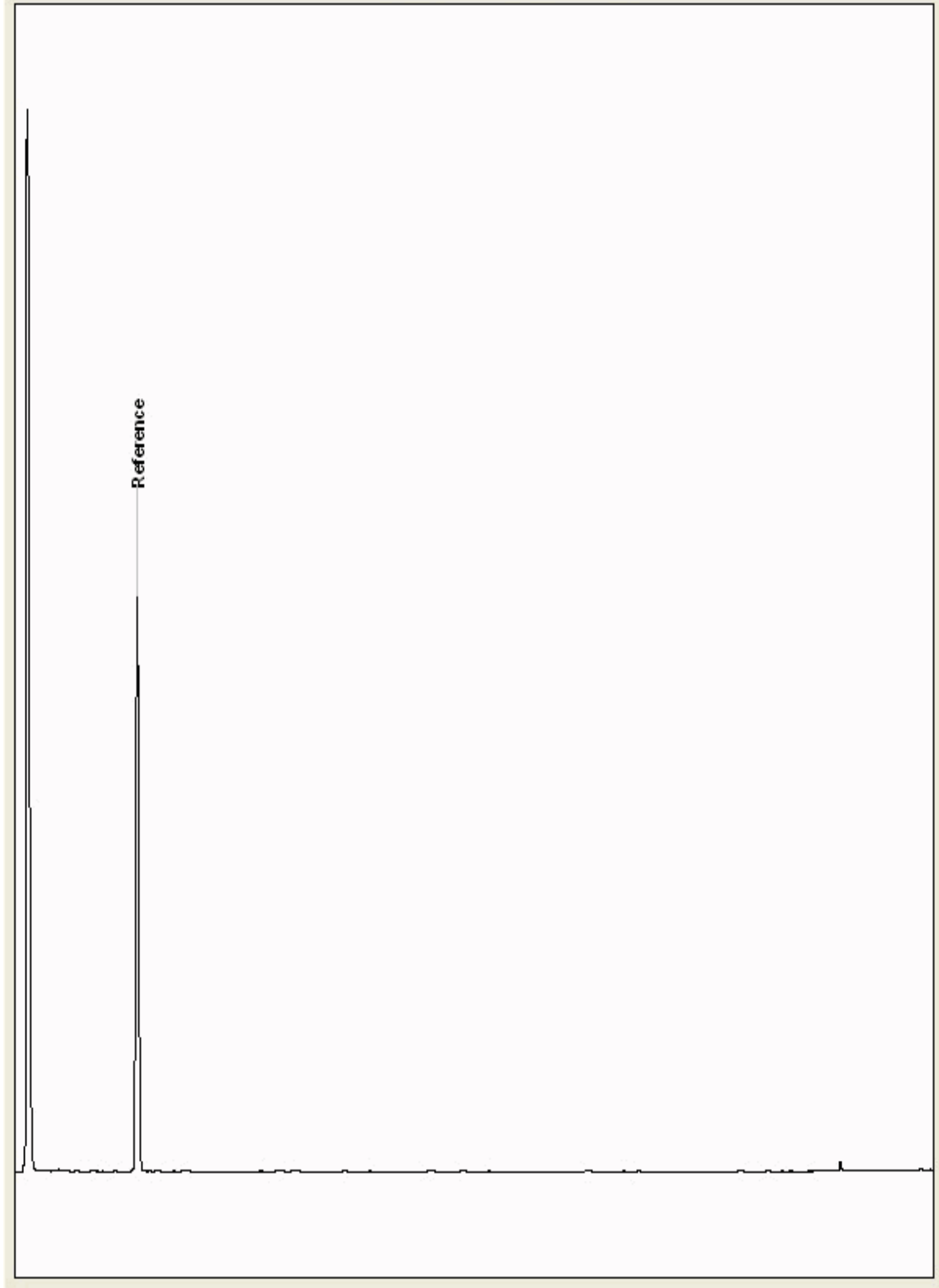
Chromatogram

Analysis: GRO by GC-FID (S)
19370292

Sample No :
Sample ID : BH241

19,370,292Depth :9.00 - 10.00

19370292_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

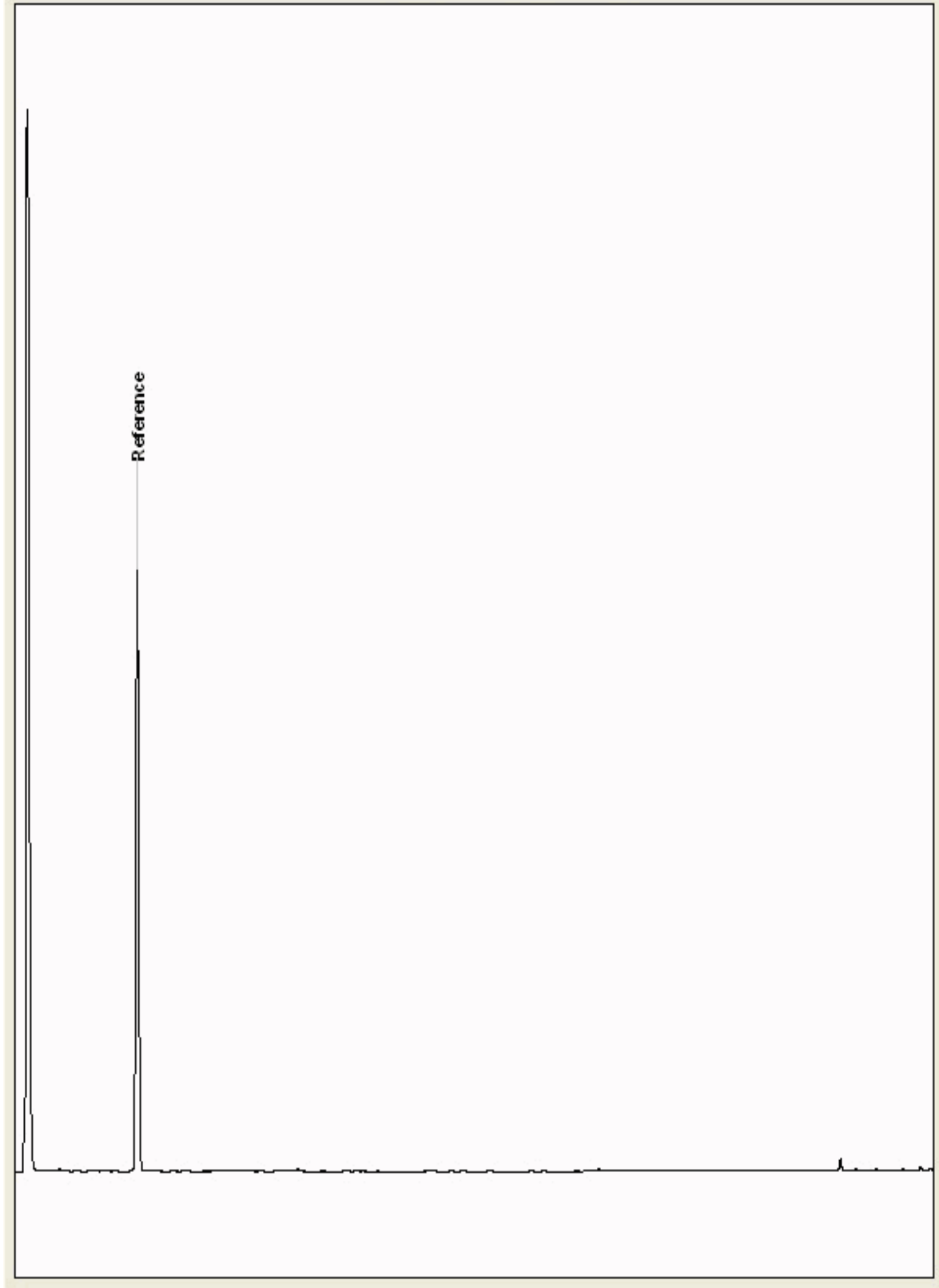
Chromatogram

Analysis: GRO by GC-FID (S)
19370318

Sample No :
Sample ID : BH250

19,370,318 Depth : 1.00 - 2.00

19370318_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

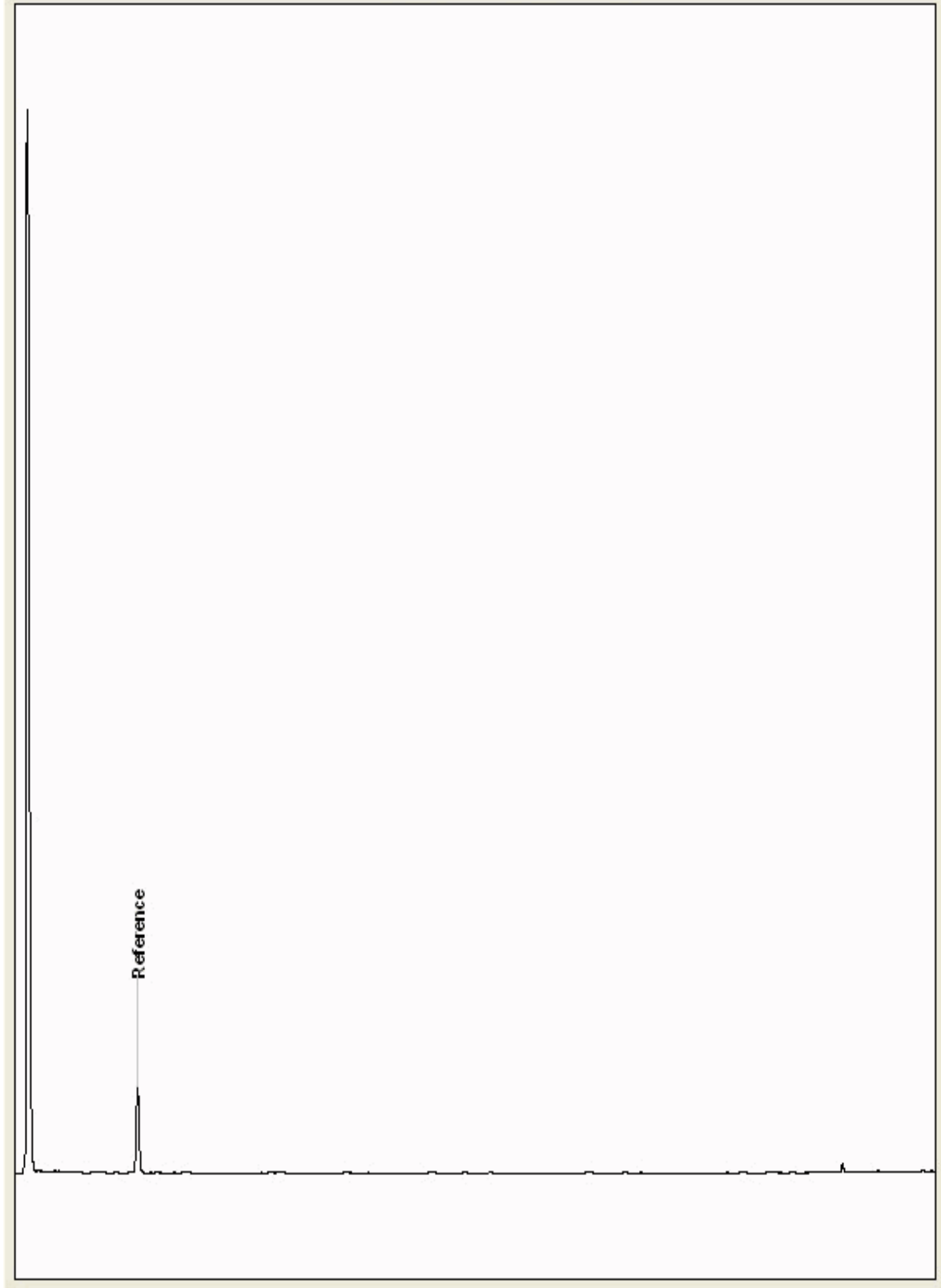
Chromatogram

Analysis: GRO by GC-FID (S)
19370397

Sample No :
Sample ID : BH241

19,370,397 **Depth :** 16.00 - 17.00

19370397_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

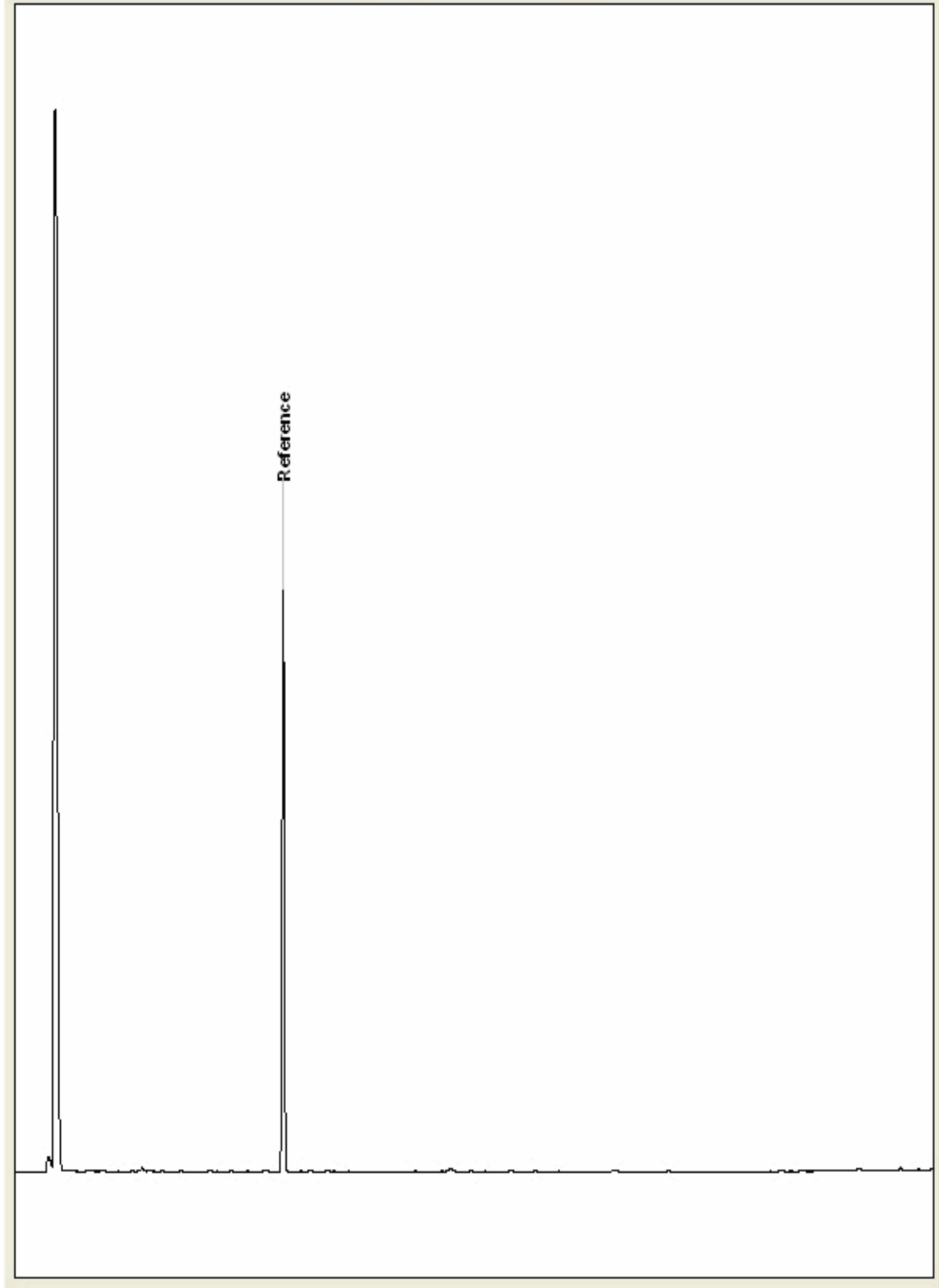
Chromatogram

Analysis: GRO by GC-FID (S)
19371689

Sample No :
Sample ID : BH250

19,371,689Depth :8.00 - 9.00

19371689_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

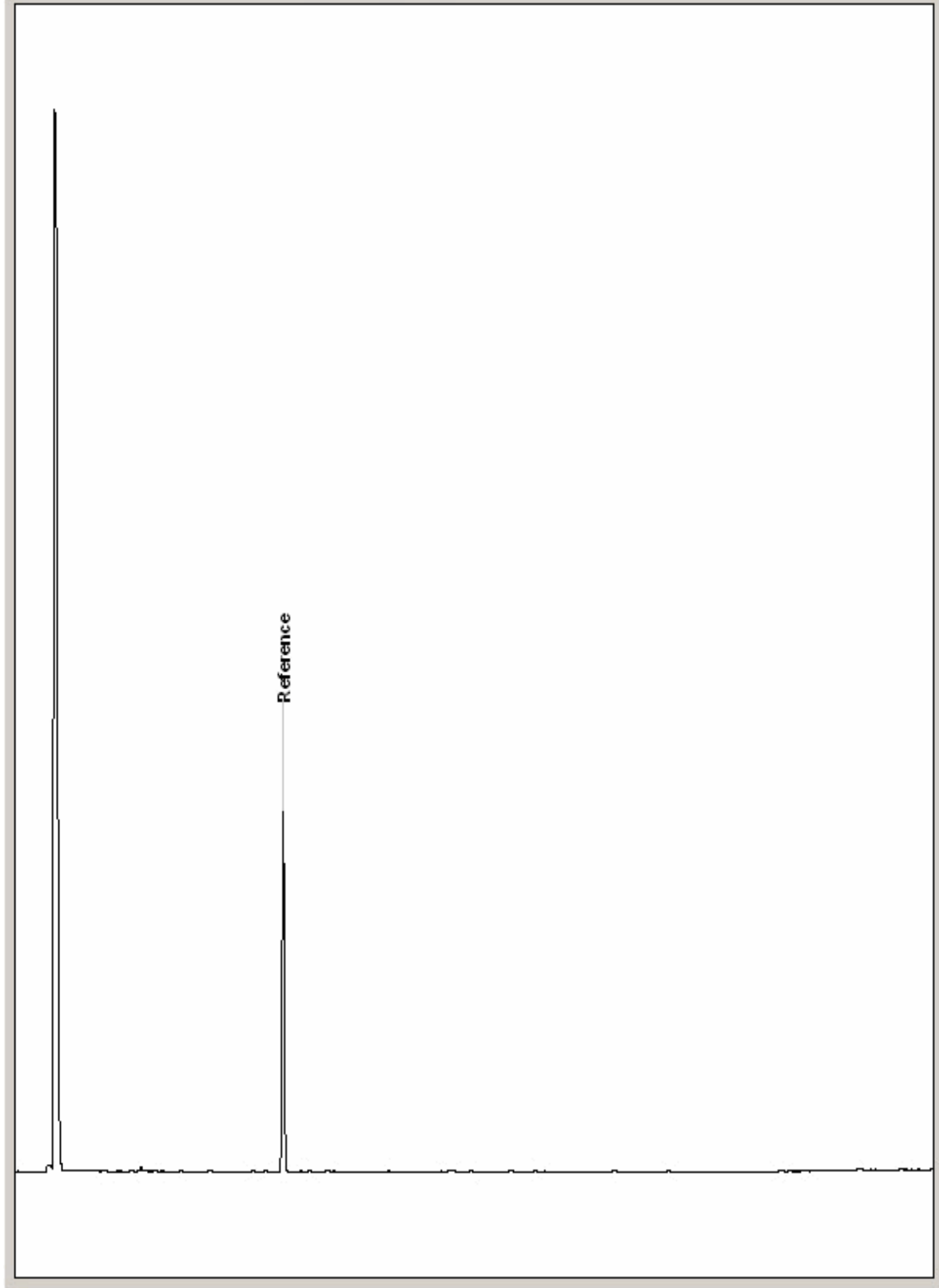
Chromatogram

Analysis: GRO by GC-FID (S)
19375114

Sample No :
Sample ID : BH241

19,375,114Depth :0.00 - 0.50

19375114_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

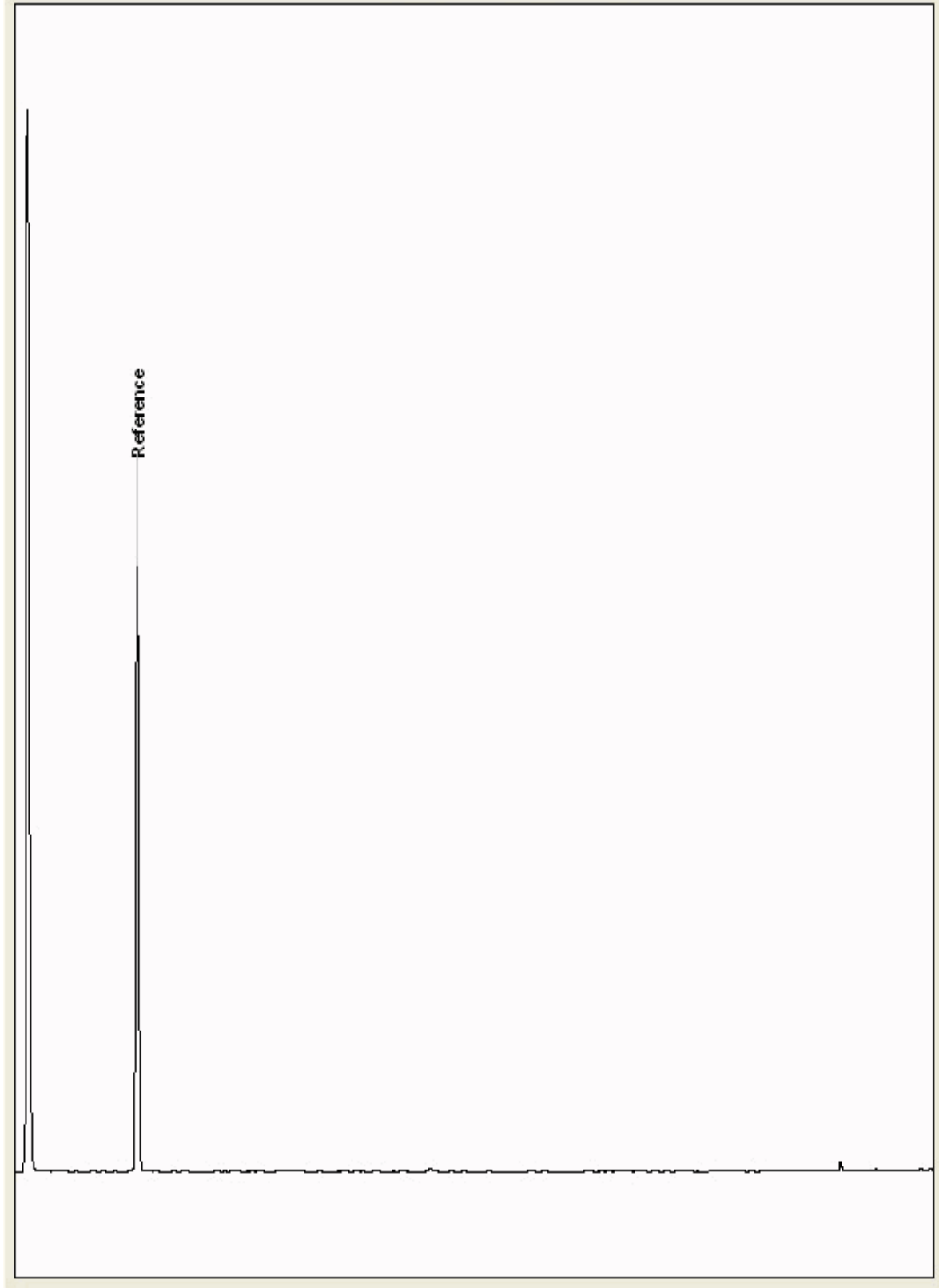
Chromatogram

Analysis: GRO by GC-FID (S)
19376092

Sample No :
Sample ID : BH250

19,376,092 **Depth :** 5.00 - 6.00

19376092_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

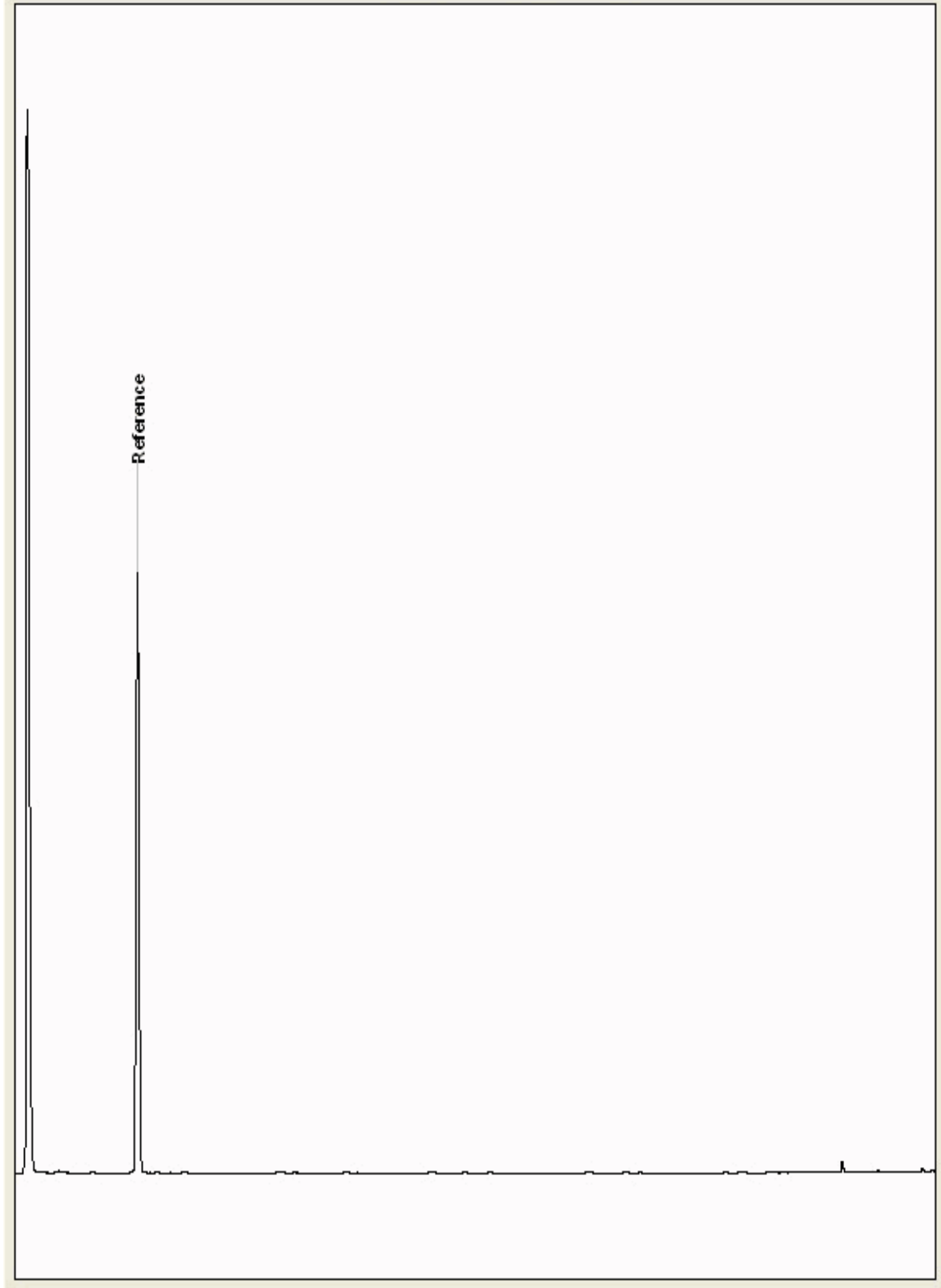
Chromatogram

Analysis: GRO by GC-FID (S)
19376126

Sample No :
Sample ID : BH250

19,376,126**Depth :** 11.00 - 12.00

19376126_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

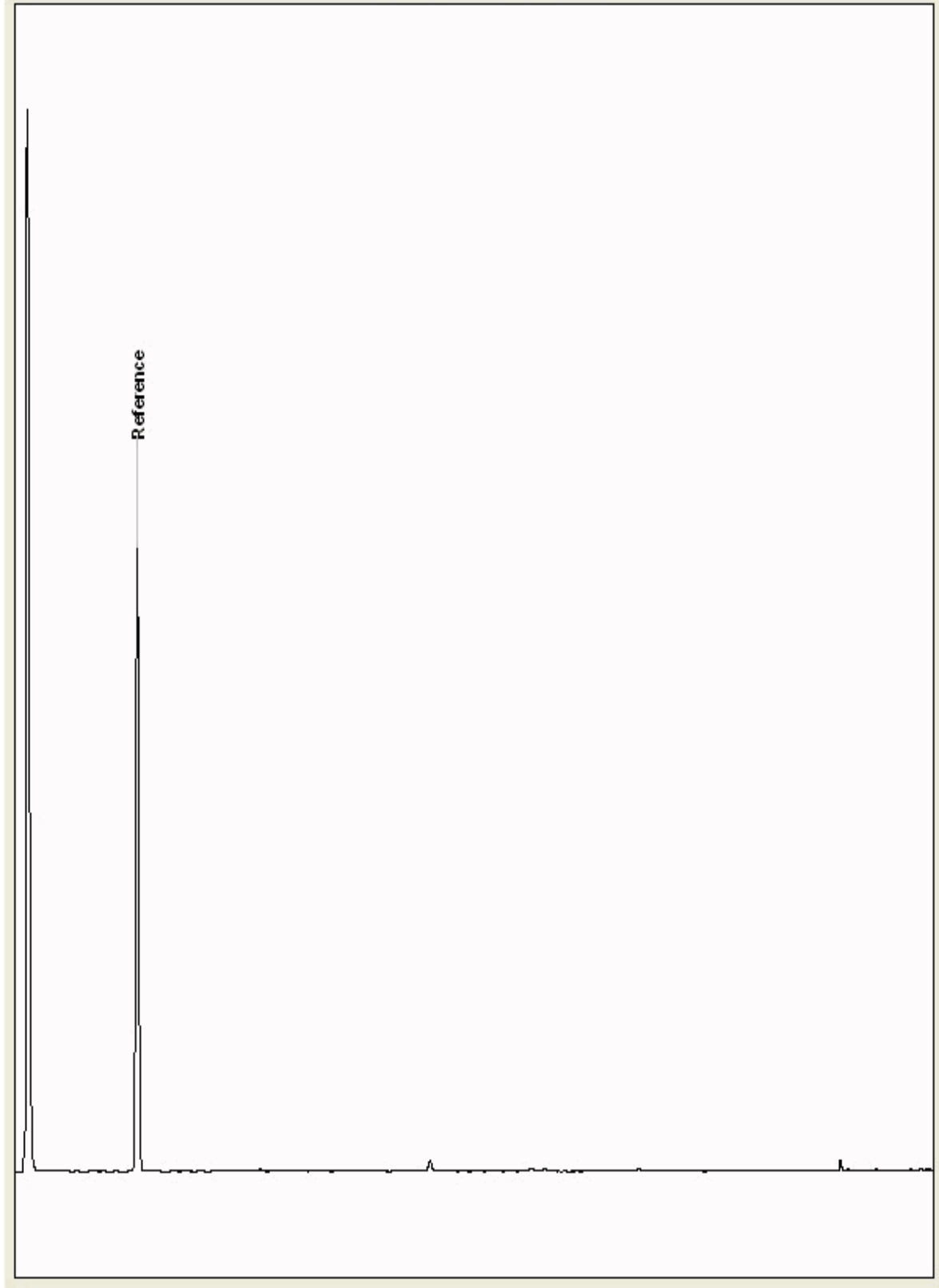
Chromatogram

Analysis: GRO by GC-FID (S)
19376219

Sample No :
Sample ID : BH250

19,376,219Depth :2.00 - 3.00

19376219_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

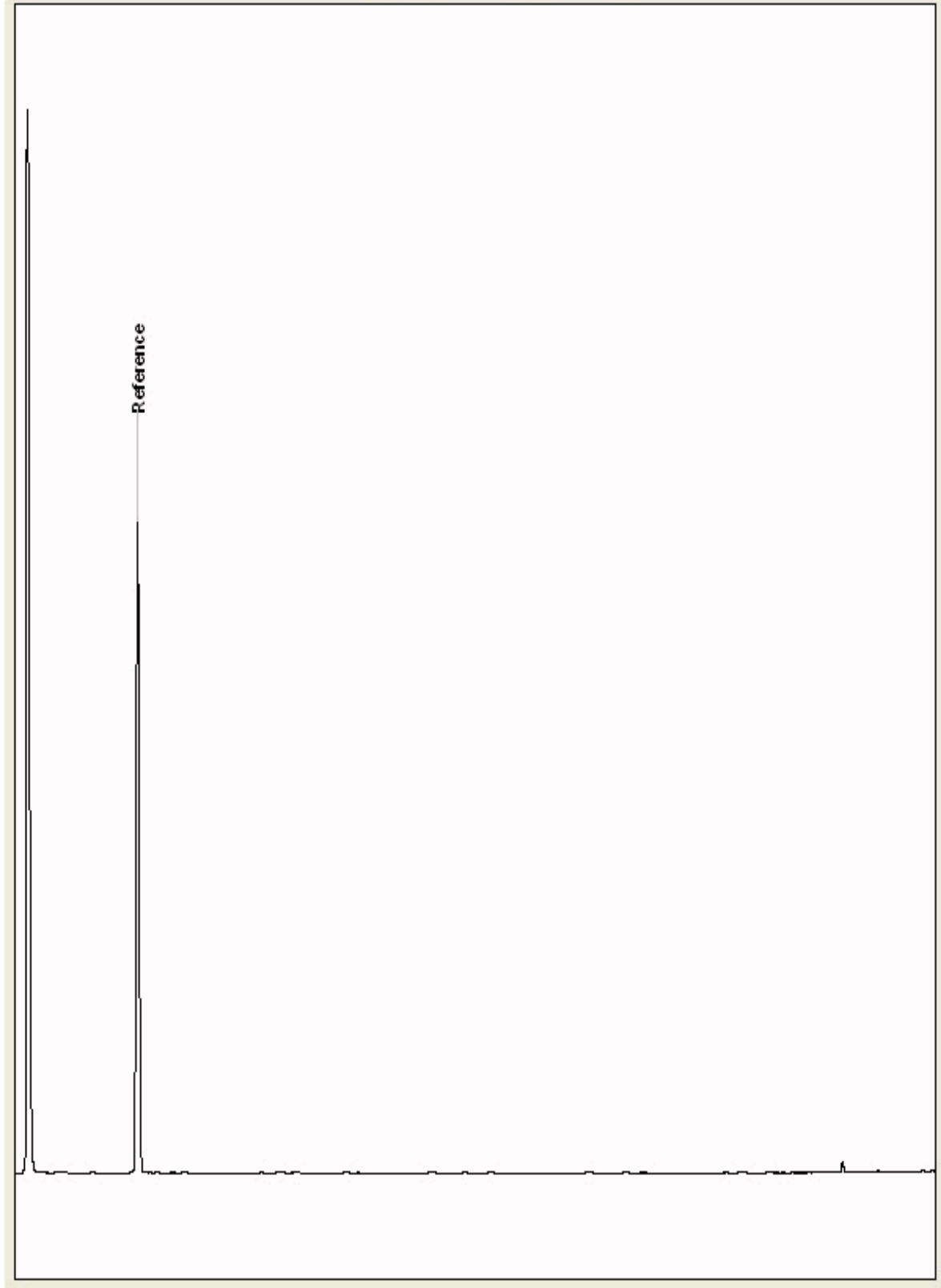
Chromatogram

Analysis: GRO by GC-FID (S)
19376362

Sample No :
Sample ID : BH241

19,376,362Depth : 1.00 - 2.00

19376362_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

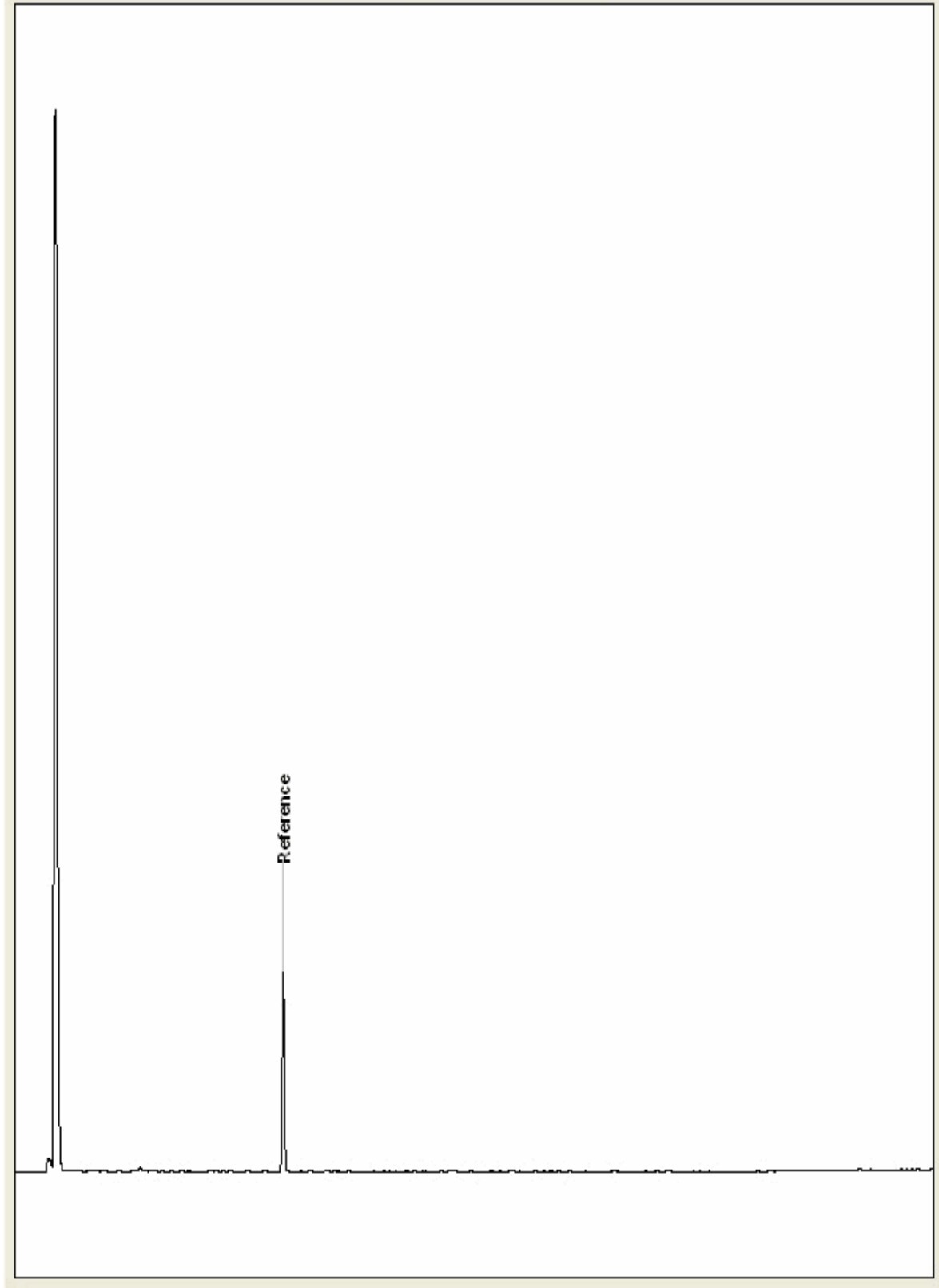
Chromatogram

Analysis: GRO by GC-FID (S)
19389359

Sample No :
Sample ID : BH241

19,389,359 Depth : 16.00 - 17.00

19389359_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

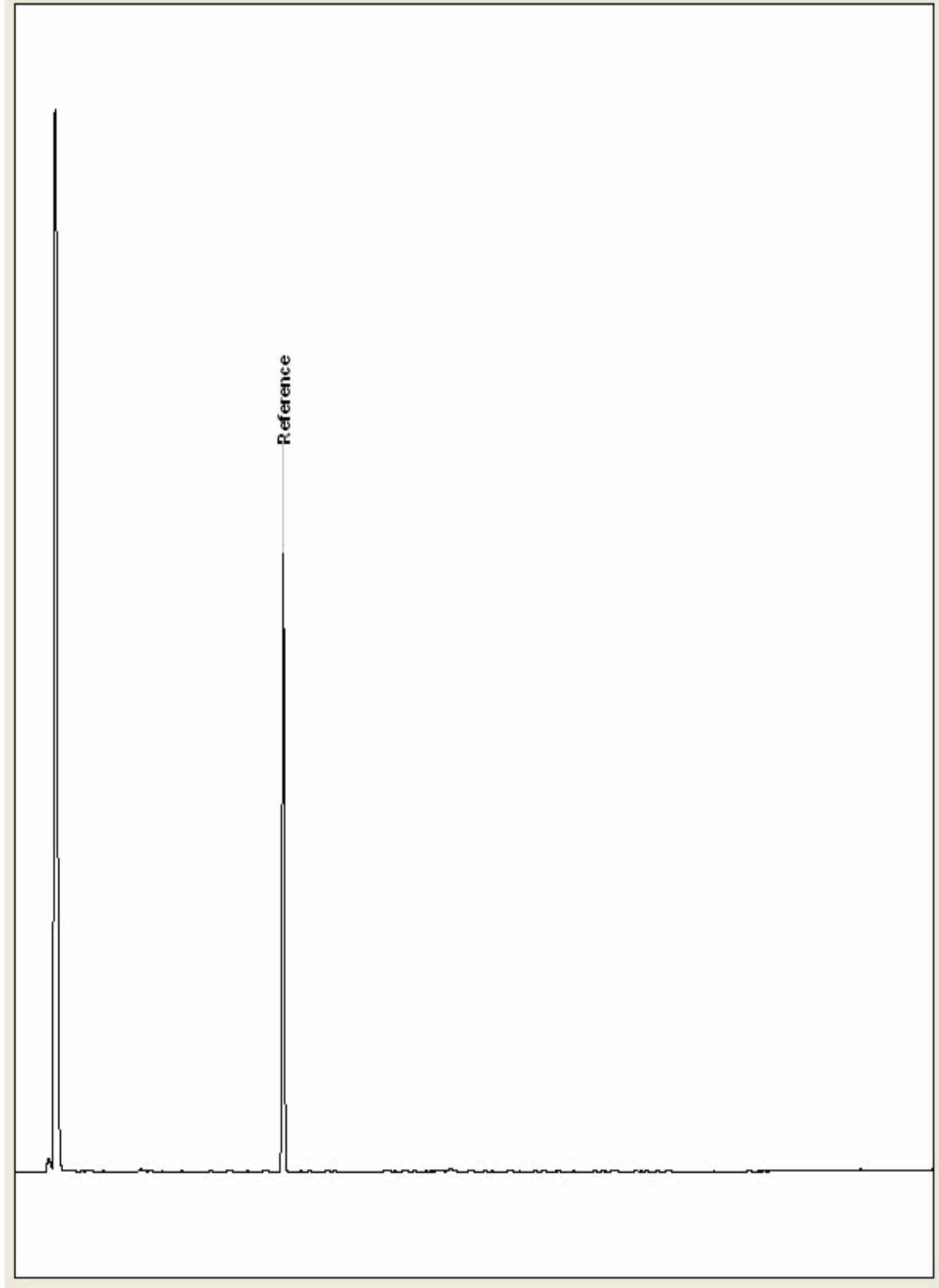
Chromatogram

Analysis: GRO by GC-FID (S)
19389365

Sample No :
Sample ID : BH241

19,389,365Depth :5.00 - 6.00

19389365_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

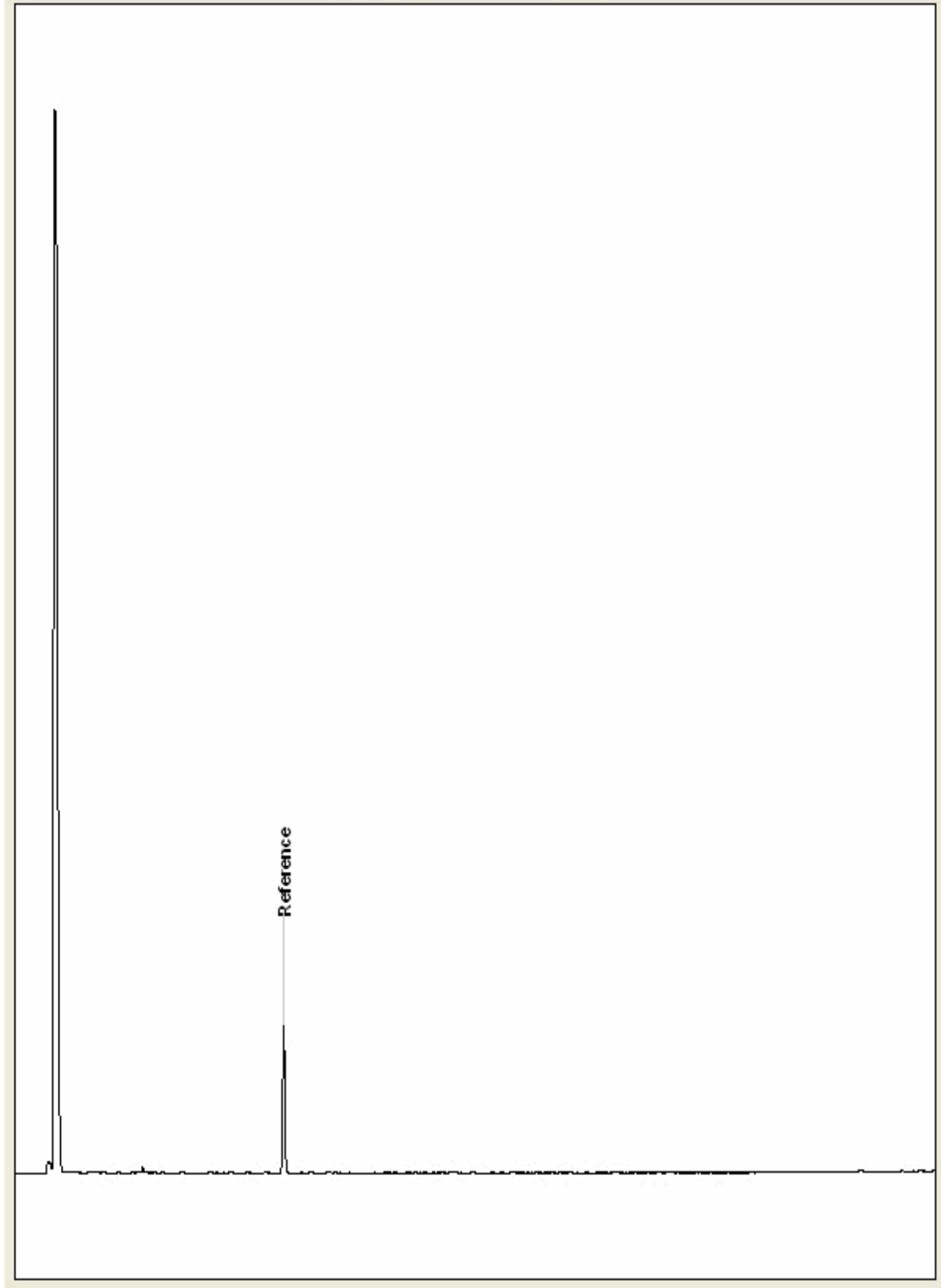
Chromatogram

Analysis: GRO by GC-FID (S)
19391130

Sample No :
Sample ID : BH241

19,391,130 **Depth :** 14.00 - 15.00

19391130_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

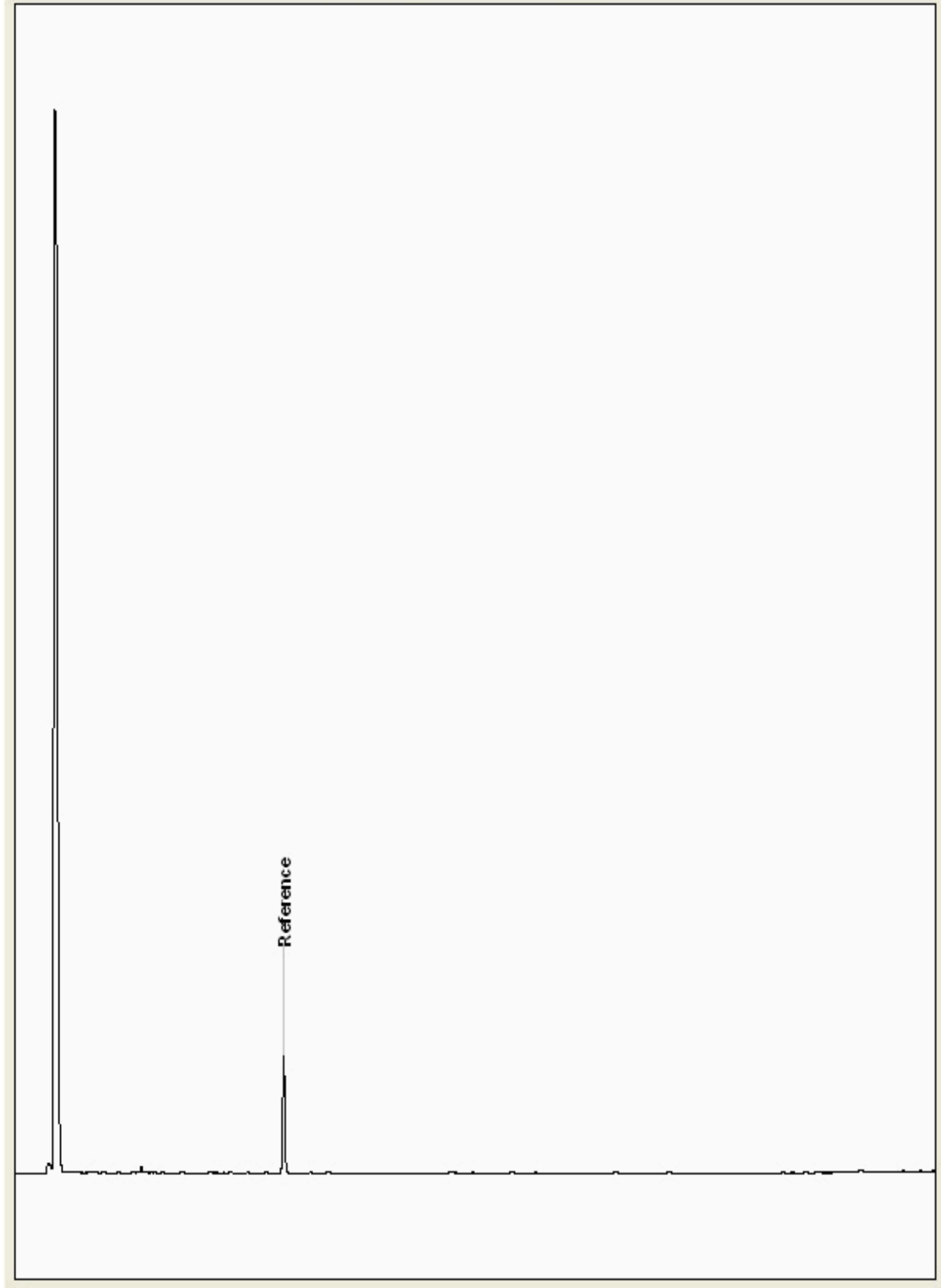
Chromatogram

Analysis: GRO by GC-FID (S)
19391138

Sample No : 19,391,138
Sample ID : BH250

Depth : 14.00 - 15.00

19391138_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

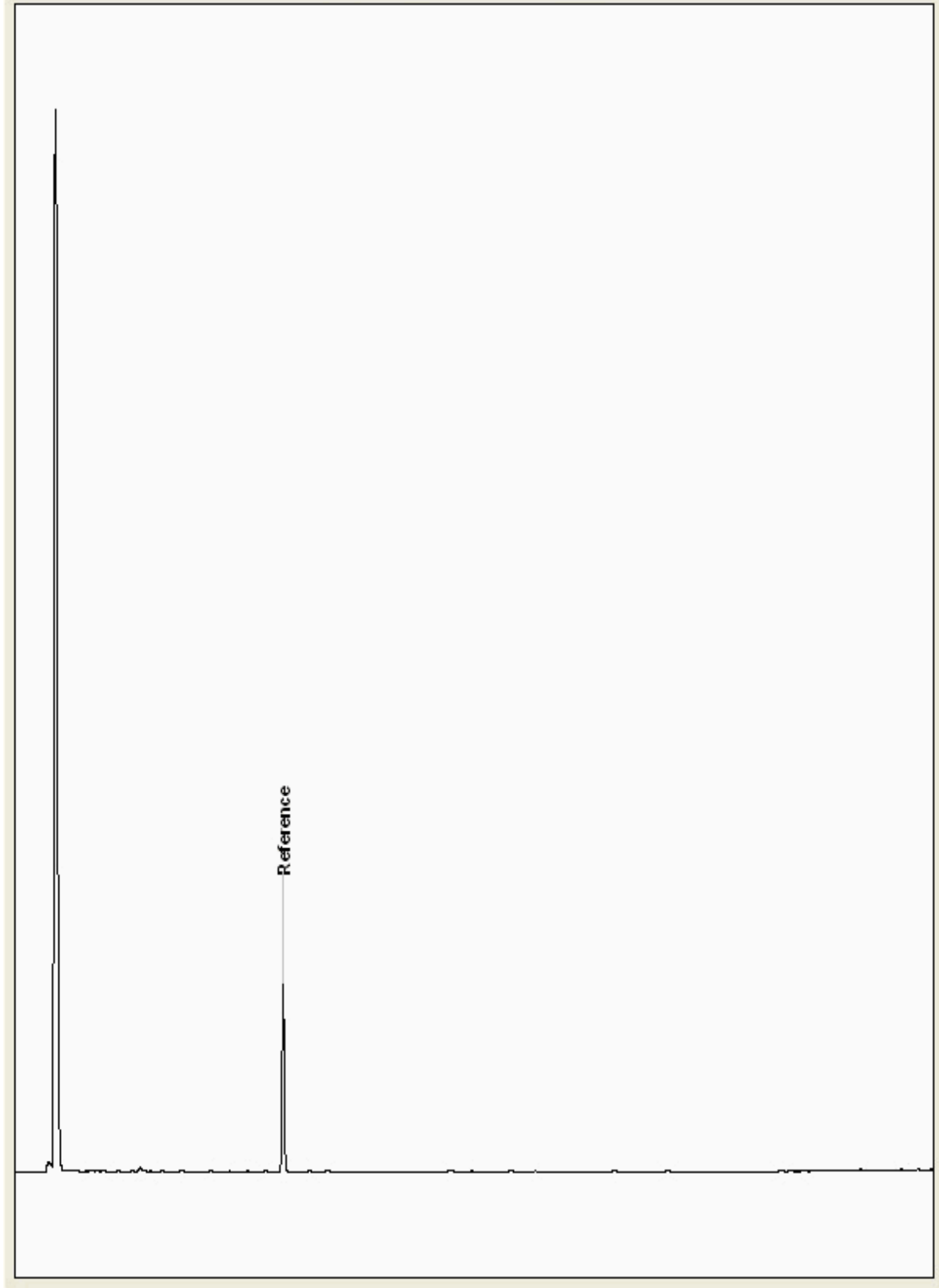
Chromatogram

Analysis: GRO by GC-FID (S)
19391167

Sample No :
Sample ID : BH241

19,391,167Depth : 12.00 - 13.00

19391167_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

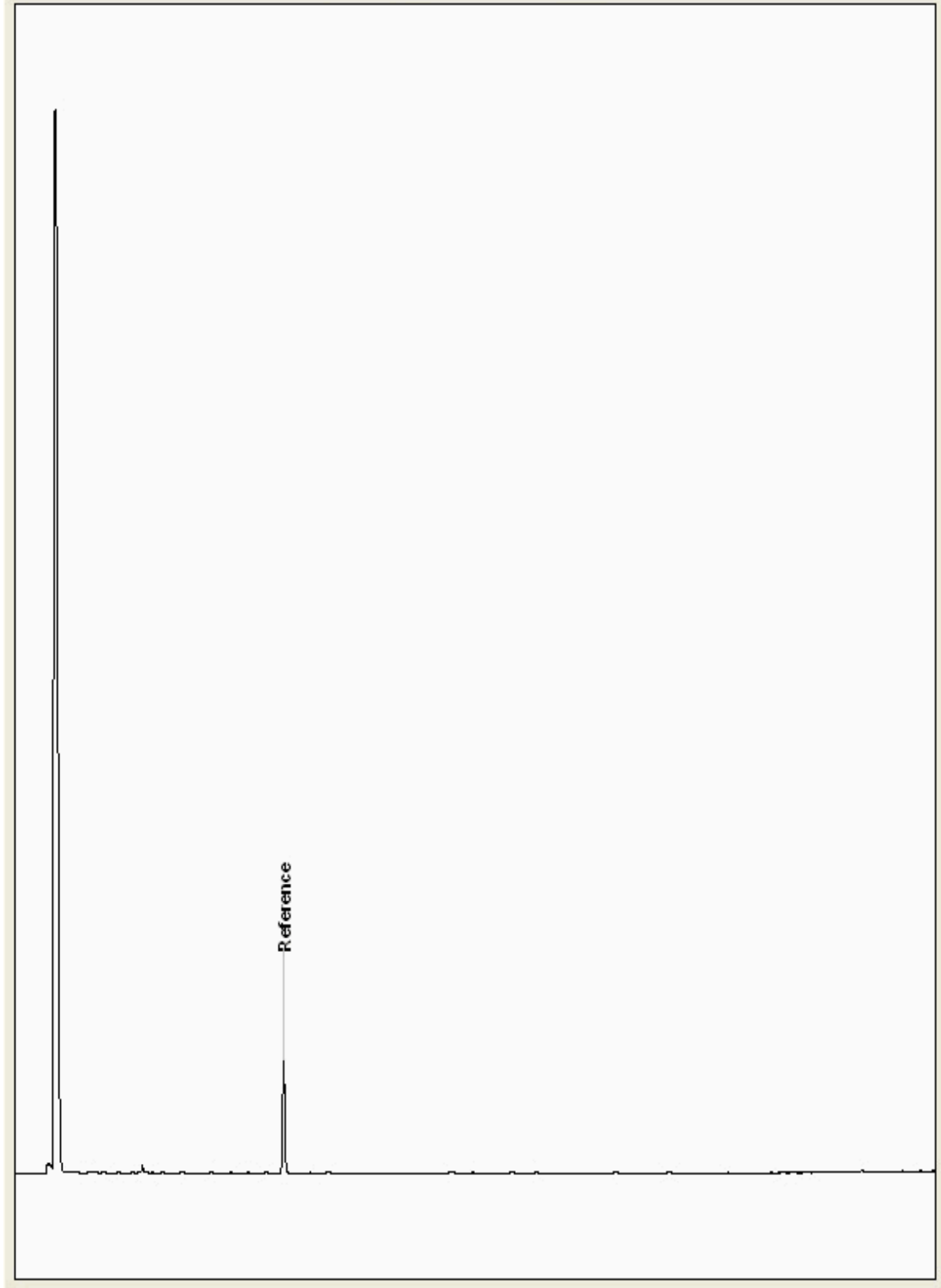
Chromatogram

Analysis: GRO by GC-FID (S)
19391206

Sample No :
Sample ID : BH250

19,391,206 **Depth :** 16.00 - 17.00

19391206_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

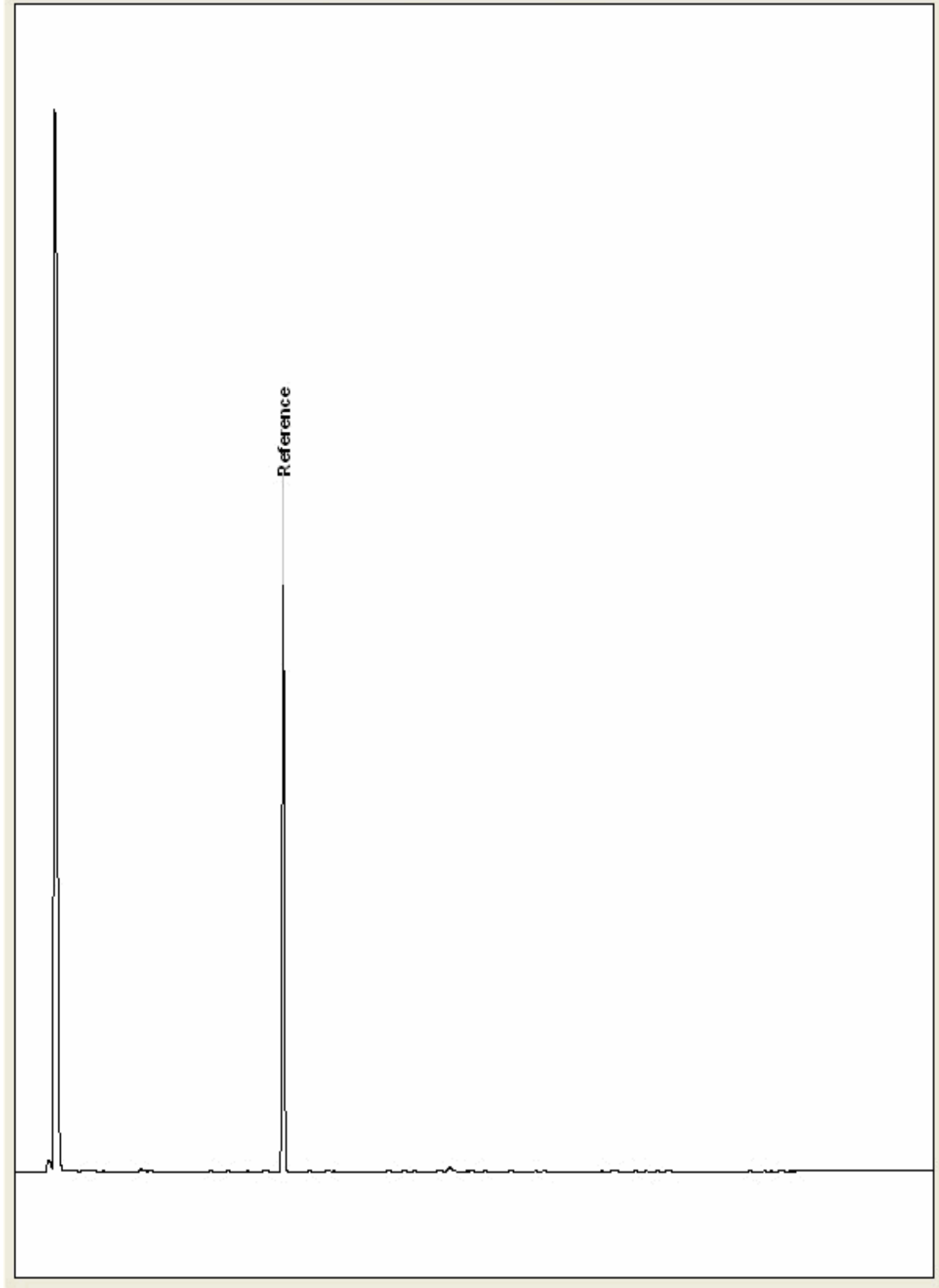
Chromatogram

Analysis: GRO by GC-FID (S)
19391332

Sample No :
Sample ID : BH241

19,391,332Depth :3.00 - 4.00

19391332_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

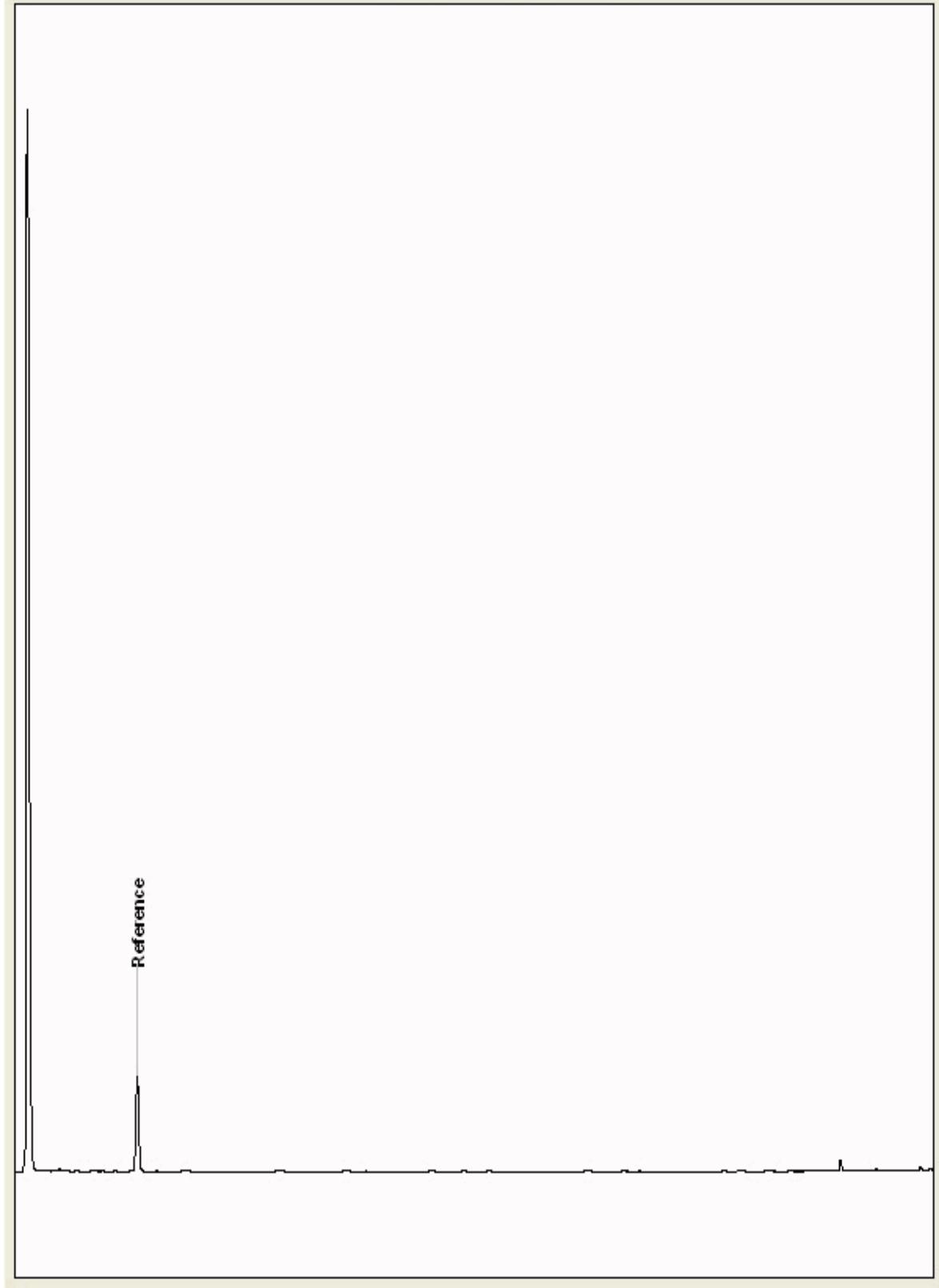
Chromatogram

Analysis: GRO by GC-FID (S)
19393279

Sample No :
Sample ID : BH250

19,393,279 Depth : 13.00 - 14.00

19393279_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	69
Your Reference:	602387	Samples Scheduled:	69

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19259861	BH206		0.50 - 1.00	31/01/2019
19259862	BH206		1.00 - 2.00	31/01/2019
19259874	BH206		11.00 - 12.00	31/01/2019
19259876	BH206		13.00 - 14.00	31/01/2019
19259878	BH206		14.00 - 15.00	31/01/2019
19259879	BH206		15.00 - 16.00	31/01/2019
19259863	BH206		2.00 - 3.00	31/01/2019
19259864	BH206		3.00 - 4.00	31/01/2019
19259865	BH206		4.00 - 5.00	31/01/2019
19259870	BH206		7.00 - 8.00	31/01/2019
19259872	BH206		9.00 - 10.00	31/01/2019
19259884	BH207		0.00 - 0.50	31/01/2019
19259886	BH207		0.50 - 1.00	31/01/2019
19259887	BH207		1.00 - 2.00	31/01/2019
19259898	BH207		11.00 - 12.00	31/01/2019
19259899	BH207		12.00 - 13.00	31/01/2019
19259900	BH207		13.00 - 14.00	31/01/2019
19259902	BH207		15.00 - 16.00	31/01/2019
19259903	BH207		16.00 - 17.00	31/01/2019
19259889	BH207		2.00 - 3.00	31/01/2019
19259891	BH207		4.00 - 5.00	31/01/2019
19259893	BH207		6.00 - 7.00	31/01/2019
19259896	BH207		9.00 - 10.00	31/01/2019
19259904	BH208		0.00 - 0.50	31/01/2019
19259905	BH208		0.50 - 1.00	31/01/2019
19259906	BH208		1.00 - 2.00	31/01/2019
19259919	BH208		10.00 - 11.00	31/01/2019
19259920	BH208		11.00 - 12.00	31/01/2019
19259923	BH208		13.00 - 14.00	31/01/2019
19259924	BH208		14.00 - 15.00	31/01/2019
19259926	BH208		15.00 - 16.00	31/01/2019
19259907	BH208		2.00 - 3.00	31/01/2019
19259909	BH208		3.00 - 4.00	31/01/2019
19259911	BH208		4.00 - 5.00	31/01/2019
19259916	BH208		7.00 - 8.00	31/01/2019
19262365	BH209		0.00 - 0.50	30/01/2019
19262367	BH209		0.50 - 1.00	30/01/2019
19262370	BH209		1.00 - 2.00	31/01/2019
19262381	BH209		11.00 - 12.00	31/01/2019
19262383	BH209		13.00 - 14.00	31/01/2019
19262385	BH209		14.00 - 15.00	31/01/2019
19262387	BH209		16.00 - 17.00	31/01/2019
19262372	BH209		2.00 - 3.00	31/01/2019
19262373	BH209		3.00 - 4.00	31/01/2019
19262375	BH209		5.00 - 6.00	31/01/2019
19262376	BH209		6.00 - 7.00	31/01/2019
19262379	BH209		9.00 - 10.00	31/01/2019
19262342	BH220		0.00 - 0.50	30/01/2019
19262343	BH220		0.50 - 1.00	30/01/2019
19262344	BH220		1.00 - 2.00	30/01/2019
19262355	BH220		11.00 - 12.00	30/01/2019
19262358	BH220		13.00 - 14.00	30/01/2019
19262359	BH220		14.00 - 15.00	30/01/2019
19262363	BH220		16.00 - 17.00	30/01/2019
19262345	BH220		2.00 - 3.00	30/01/2019
19262348	BH220		4.00 - 5.00	30/01/2019
19262350	BH220		6.00 - 7.00	30/01/2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19262351	BH220		7.00 - 8.00	30/01/2019
19262353	BH220		9.00 - 10.00	30/01/2019
19259932	BH221		0.00 - 0.50	31/01/2019
19262322	BH221		1.00 - 2.00	30/01/2019
19262337	BH221		12.00 - 13.00	30/01/2019
19262339	BH221		14.00 - 15.00	30/01/2019
19262340	BH221		15.00 - 16.00	30/01/2019
19262324	BH221		2.00 - 3.00	30/01/2019
19262326	BH221		3.00 - 4.00	30/01/2019
19262328	BH221		4.00 - 5.00	30/01/2019
19262331	BH221		6.00 - 7.00	30/01/2019
19262333	BH221		8.00 - 9.00	30/01/2019
19262333	BH221		8.00 - 9.00	30/01/2019

ISO5667-3 Water quality - Sampling - Part3 -
During Transportation samples shall be stored in a cooling device capable of
maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of
maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to
24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19259887	19259886	19259884	19259879	19259878	19259876	19259874	19259872	19259870	19259865	19259864	19259863	19259862	19259861
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19259887	19259889	19259891	19259893	19259896	19259898	19259899	19259900	19259902	19259903	19259904	19259905	19259906	19259907
Customer Sample Reference	BH207	BH207	BH207	BH207	BH207	BH207	BH207	BH207	BH207	BH207	BH208	BH208	BH208	BH208
AGS Reference														
Depth (m)	1.00 - 2.00	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	16.00 - 17.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00
Container	250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar	1kg TUB 250g Amber Jar	1kg TUB 60g VOC (ALE215)	1kg TUB 250g Amber Jar	1kg TUB 60g VOC (ALE215)	1kg TUB 250g Amber Jar	1kg TUB 60g VOC (ALE215)	1kg TUB 250g Amber Jar	1kg TUB 60g VOC (ALE215)	1kg TUB 250g Amber Jar	1kg TUB 60g VOC (ALE215)	1kg TUB 250g Amber Jar	1kg TUB 60g VOC (ALE215)

PCBs by GCMS	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 69		X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 69		X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19262321	19262328	19262326	19262324	19262322	19259932	19259926	19259924	19259923	19259920	19259919	19259916	19259911	19259909	
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Anions by Kone (w)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 69			1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
19262340	BH221		15.00 - 16.00	60g VOC (ALE215) 250g Amber Jar
19262339	BH221		14.00 - 15.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262337	BH221		12.00 - 13.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262333	BH221		8.00 - 9.00	60g VOC (ALE215) 250g Amber Jar
19262331	BH221		6.00 - 7.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262355	BH220		11.00 - 12.00	250g Amber Jar
19262353	BH220		9.00 - 10.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262351	BH220		7.00 - 8.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262350	BH220		6.00 - 7.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262348	BH220		4.00 - 5.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262345	BH220		2.00 - 3.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262344	BH220		1.00 - 2.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262343	BH220		0.50 - 1.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19262342	BH220		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar

Parameter	19262340	19262339	19262337	19262333	19262331	19262355	19262353	19262351	19262350	19262348	19262345	19262344	19262343	19262342
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 3									X			
CEN Readings	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 69		X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 69	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19262363	19262365	19262367	19262370	19262372	19262373	19262375	19262376	19262379	19262381	19262383	19262385	19262385	19262385	19262383	19262358	19262359	19262363
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 69		0.00 - 0.50	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 69		0.50 - 1.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 69		1.00 - 2.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 3		2.00 - 3.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X																
CEN Readings	All	NDPs: 0 Tests: 69		3.00 - 4.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 69		5.00 - 6.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 69		6.00 - 7.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 69		9.00 - 10.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 69		11.00 - 12.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 69		13.00 - 14.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 69		14.00 - 15.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 69		16.00 - 17.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 69				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 69				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 69				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 69				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 69				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 69				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19262385	19262387
Customer Sample Reference	BH209	BH209
AGS Reference		
Depth (m)	14.00 - 15.00	16.00 - 17.00
Container	250g Amber Jar 60g VOC (ALE215)	60g VOC (ALE215) 250g Amber Jar 1kg TUB

Test Name	Method	NDPs: 0 Tests: 69	19262385	19262387
ANC at pH4 and ANC at pH 6	All		X	X
Anions by Kone (w)	All			X
Asbestos ID in Solid Samples	All			X
CEN Readings	All			X
Coronene	All		X	X
Dissolved Metals by ICP-MS	All			X
Dissolved Organic/Inorganic Carbon	All			X
EPH CWG (Aliphatic) GC (S)	All		X	X
EPH CWG (Aromatic) GC (S)	All		X	X
Fluoride	All			X
GRO by GC-FID (S)	All		X	X
Hexavalent Chromium (s)	All		X	X
Loss on Ignition in soils	All		X	X
Mercury Dissolved	All			X
Metals in solid samples by OES	All		X	X
Mineral Oil	All		X	X
PAH 16 & 17 Calc	All		X	X
PAH by GCMS	All		X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19262385	19262387
Customer Sample Reference	BH209	BH209
AGS Reference		
Depth (m)	14.00 - 15.00	16.00 - 17.00
Container	250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)

PCBs by GCMS	All	NDPs: 0 Tests: 69	X	X
pH	All	NDPs: 0 Tests: 69	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 69	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 69		X
Sample description	All	NDPs: 0 Tests: 69	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 69		X
Total Organic Carbon	All	NDPs: 0 Tests: 69	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 69	X	X
VOC MS (S)	All	NDPs: 0 Tests: 69	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend			Customer Sample Ref.	BH206	BH206	BH206	BH206	BH206	BH206
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
			Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
			SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
			Lab Sample No.(s)	19259861	19259862	19259874	19259876	19259878	19259879
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	26	14	6.3	8.2	8.7
Loss on ignition	<0.7 %	TM018		3.4	5.33	1.71	1.98	1.71	1.25
Mineral Oil Surrogate % recovery**	%	TM061		83.1	79.8	73.8	79.1	82.6	78.3
Mineral oil >C10-C40	<1 mg/kg	TM061		19	16	13.3	23.4	80.8	39.1
Phenol	<0.01 mg/kg	TM062 (S)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)		<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132		1.31	2.4	0.632	0.732	0.65	0.806
pH	1 pH Units	TM133		8.41	7.8	8.63	8.54	8.43	8.62
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168		<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168		<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168		<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168		<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168		<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168		<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168		<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181		12	12.4	8.01	8.19	7.93	9.49
Cadmium	<0.02 mg/kg	TM181		0.531	0.88	1.23	1.45	1.62	1.55
Chromium	<0.9 mg/kg	TM181		6.08	13	6.25	6.1	6.05	6.84
Copper	<1.4 mg/kg	TM181		24.9	39.1	19.5	20.4	20.1	23.7
Lead	<0.7 mg/kg	TM181		60.4	68	11.9	10.1	14.8	14.2
Mercury	<0.14 mg/kg	TM181		<0.14	0.463	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181		13.9	24.2	29.3	27.4	25.9	32.9
Selenium	<1 mg/kg	TM181		<1	<1	2.39	2.71	2.44	2.57
Zinc	<1.9 mg/kg	TM181		74.5	85.4	66.1	61	73.1	64.3
ANC @ pH 4	<0.03 mol/kg	TM182		0.804	0.505	1.11	1.43	1.13	1.25
ANC @ pH 6	<0.03 mol/kg	TM182		0.0886	0.0552	0.204	0.24	0.246	0.131
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH206	BH206	BH206	BH206	BH206	BH207
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259863	19259864	19259865	19259870	19259872	19259884
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	29	27	26	9	6.6	6.3
Loss on ignition	<0.7 %	TM018	6.08	6.62	5.64	1.52	0.822	3.17
Mineral Oil Surrogate % recovery**	%	TM061	74.2	74.8	71.4	70.4	78.3	74.4
Mineral oil >C10-C40	<1 mg/kg	TM061	79.7	3.33	<1	2.83	<1	13.6
Phenol	<0.01 mg/kg	TM062 (S)	0.0142	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	0.0284	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.58	3.1	2.64	0.46	0.277	1.13
pH	1 pH Units	TM133	8.04	7.81	8.11	8.61	9.29	8.36
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<15
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<15
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<15
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<15
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<15
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<15
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<15
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<105
Arsenic	<0.6 mg/kg	TM181	14.5	9.34	8.51	5.97	2.8	6.4
Cadmium	<0.02 mg/kg	TM181	0.991	0.587	0.534	0.516	0.447	0.905
Chromium	<0.9 mg/kg	TM181	15.7	12.3	11.5	7.02	4.1	12.4
Copper	<1.4 mg/kg	TM181	44.8	28	27.8	11	6.27	28
Lead	<0.7 mg/kg	TM181	85	57.4	54.8	15.5	4.01	26.3
Mercury	<0.14 mg/kg	TM181	0.531	0.294	0.282	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	28.2	18.3	17.4	18.1	9.99	23.9
Selenium	<1 mg/kg	TM181	1.02	<1	<1	<1	<1	1.02
Zinc	<1.9 mg/kg	TM181	98.4	62.6	58.7	48.4	28.1	86.9
ANC @ pH 4	<0.03 mol/kg	TM182	0.694	0.367	0.457	0.484	0.619	0.778
ANC @ pH 6	<0.03 mol/kg	TM182	0.0739	0.0543	0.0685	0.102	0.141	0.308
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	40.3
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	293



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH207	BH207	BH207	BH207	BH207	BH207
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259886	19259887	19259898	19259899	19259900	19259902
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	7.1	22	11	11	7.7	11
Loss on ignition	<0.7 %	TM018	9.19	4.48	1.79	3.45	1.89	2.82
Mineral Oil Surrogate % recovery**	%	TM061	78.2	74.3	79	79.6	73.1	74.6
Mineral oil >C10-C40	<1 mg/kg	TM061	57.6	<1	<1	<1	22.3	10.6
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.2	1.3	0.707	0.611	1.67	0.779
pH	1 pH Units	TM133	8.74	7.45	8.87	8.62	8.53	8.66
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	16.1	11.1	7.86	8.12	11.3	8.19
Cadmium	<0.02 mg/kg	TM181	1.04	0.774	2.75	1.49	1.32	1.3
Chromium	<0.9 mg/kg	TM181	8.54	13.9	5.69	5.95	7.51	6.69
Copper	<1.4 mg/kg	TM181	60.6	35.6	18.6	20.3	23.2	19.5
Lead	<0.7 mg/kg	TM181	106	75.9	10.3	10.6	16.1	22.1
Mercury	<0.14 mg/kg	TM181	<0.14	0.339	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	22.2	23	25.8	26.8	33.5	22.3
Selenium	<1 mg/kg	TM181	<1	<1	2.45	3.2	2.92	1.61
Zinc	<1.9 mg/kg	TM181	217	83.3	72.7	64.9	66.7	62.3
ANC @ pH 4	<0.03 mol/kg	TM182	0.549	0.497	1.22	0.878	1.28	0.493
ANC @ pH 6	<0.03 mol/kg	TM182	0.0683	0.0475	0.33	0.188	0.169	0.124
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH207	BH207	BH207	BH207	BH207	BH208
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	16.00 - 17.00	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259903	19259889	19259891	19259893	19259896	19259904
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	9.6	30	26	13	3.9	18
Loss on ignition	<0.7 %	TM018	1.15	5.04	4.57	2.06	2.88	5.41
Mineral Oil Surrogate % recovery**	%	TM061	78.7	79.4	77.2	75.5	73.1	73.4
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	19.6	<1	10.9	<1	35.8
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	0.0142	<0.01	<0.01	<0.01	0.0244
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.613	2.19	2.52	0.523	0.32	1.95
pH	1 pH Units	TM133	8.78	7.71	7.77	8.4	9.4	9.45
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.14	13	9.48	7.03	2.83	17.9
Cadmium	<0.02 mg/kg	TM181	1.28	0.807	0.571	0.502	0.586	0.882
Chromium	<0.9 mg/kg	TM181	8.1	13.6	12	14.8	4.24	11.1
Copper	<1.4 mg/kg	TM181	19.5	54.8	32.1	9.34	4.7	81.5
Lead	<0.7 mg/kg	TM181	8.8	113	68.8	12.1	3.81	194
Mercury	<0.14 mg/kg	TM181	<0.14	0.664	0.32	<0.14	<0.14	0.161
Nickel	<0.2 mg/kg	TM181	27.8	23.2	17	21.8	10.4	22.3
Selenium	<1 mg/kg	TM181	1.8	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	68.4	92.5	60.9	40.8	32.5	252
ANC @ pH 4	<0.03 mol/kg	TM182	0.8	0.507	0.321	2.21	0.0993	0.325
ANC @ pH 6	<0.03 mol/kg	TM182	0.146	0.0526	0.058	0.297	0.0561	0.0802
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	11.9	<10	<10	<10	111
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	697



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH208	BH208	BH208	BH208	BH208	BH208
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259905	19259906	19259919	19259920	19259923	19259924
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	14	13	8.9	12	9	9
Loss on ignition	<0.7 %	TM018	1.98	<0.7	<0.7	3.35	5.61	2.07
Mineral Oil Surrogate % recovery**	%	TM061	77.6	75.5	82	78	76.1	80.2
Mineral oil >C10-C40	<1 mg/kg	TM061	3.81	11.4	<1	<1	<1	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.716	0.773	0.309	0.537	0.667	0.764
pH	1 pH Units	TM133	7.78	8.09	9.36	8.89	8.51	8.53
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	12.1	8.4	3.78	8.74	9.7	9.88
Cadmium	<0.02 mg/kg	TM181	0.551	0.475	0.599	1.47	1.81	1.69
Chromium	<0.9 mg/kg	TM181	8.77	8.86	12.9	6.15	5.9	7.09
Copper	<1.4 mg/kg	TM181	33	16.3	7.16	21.8	23.4	24.2
Lead	<0.7 mg/kg	TM181	69.6	32	5.25	12.6	12.4	13.5
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	16.7	14.3	26.6	28.4	31.3	36.1
Selenium	<1 mg/kg	TM181	<1	<1	<1	2.28	2.77	3.1
Zinc	<1.9 mg/kg	TM181	92	51.7	39.5	77	83.8	71.1
ANC @ pH 4	<0.03 mol/kg	TM182	0.198	0.24	0.0781	1.06	1.11	1.58
ANC @ pH 6	<0.03 mol/kg	TM182	0.126	0.0571	0.0554	0.229	0.216	0.287
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	14.3	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH208	BH208	BH208	BH208	BH208	BH209
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Unspecified Solid (UNS)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259926	19259907	19259909	19259911	19259916	19262365
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	6.5	17	21	18	5.1	
Loss on ignition	<0.7 %	TM018	2.5	2.25	2.14	5.86	<0.7	
Mineral Oil Surrogate % recovery**	%	TM061	76.1	81.4	85.4	73.6	76.6	
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	32.4	<1	37.9	19.4	
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	
Organic Carbon, Total	<0.2 %	TM132	0.732	0.584	1.23	2.43	0.297	
pH	1 pH Units	TM133	8.32	7.89	7.68	7.9	8.89	
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	#
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	#
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	#
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	#
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	#
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	#
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	#
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	
Arsenic	<0.6 mg/kg	TM181	11	11.2	10.9	12.1	3.86	
Cadmium	<0.02 mg/kg	TM181	1.41	0.974	0.567	0.512	0.369	
Chromium	<0.9 mg/kg	TM181	5.75	8.54	13.2	7.53	4.62	
Copper	<1.4 mg/kg	TM181	20.1	74.2	28.9	26.4	7.02	
Lead	<0.7 mg/kg	TM181	12.7	193	58.4	63	5.24	
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	0.287	0.395	<0.14	
Nickel	<0.2 mg/kg	TM181	27	13.6	21.4	13.9	11.5	
Selenium	<1 mg/kg	TM181	2.42	<1	<1	<1	<1	
Zinc	<1.9 mg/kg	TM181	53.9	276	65.5	53.6	28.5	
ANC @ pH 4	<0.03 mol/kg	TM182	0.667	0.217	0.277	0.0749	0.148	
ANC @ pH 6	<0.03 mol/kg	TM182	0.16	0.0507	0.0526	0.0337	0.0568	
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	
Moisture Content Ratio (% of as received sample)	%	PM024						11
Loss on ignition	<0.7 %	TM018						1.64



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH208	BH208	BH208	BH208	BH208	BH209
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Unspecified Solid (UNS)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259926	19259907	19259909	19259911	19259916	19262365
		AGS Reference						
Component	LOD/Units	Method						
Mineral Oil Surrogate % recovery**	%	TM061						75.2 @
Mineral oil >C10-C40	<1 mg/kg	TM061						6.59 @
Phenol	<0.01 mg/kg	TM062 (S)						<0.01 @
Cresols	<0.01 mg/kg	TM062 (S)						<0.01 @
Xylenols	<0.015 mg/kg	TM062 (S)						<0.015 @
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)						<0.01 @
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)						<0.015 @
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)						<0.06 @
Organic Carbon, Total	<0.2 %	TM132						0.692
pH	1 pH Units	TM133						8.71
Chromium, Hexavalent	<0.6 mg/kg	TM151						<0.6
PCB congener 28	<3 µg/kg	TM168						<3
PCB congener 52	<3 µg/kg	TM168						<3
PCB congener 101	<3 µg/kg	TM168						<3
PCB congener 118	<3 µg/kg	TM168						<3
PCB congener 138	<3 µg/kg	TM168						<3
PCB congener 153	<3 µg/kg	TM168						<3
PCB congener 180	<3 µg/kg	TM168						<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168						<21
Arsenic	<0.6 mg/kg	TM181						10
Cadmium	<0.02 mg/kg	TM181						1.64
Chromium	<0.9 mg/kg	TM181						9.13
Copper	<1.4 mg/kg	TM181						21.6
Lead	<0.7 mg/kg	TM181						19.8
Mercury	<0.14 mg/kg	TM181						<0.14
Nickel	<0.2 mg/kg	TM181						27.8
Selenium	<1 mg/kg	TM181						2.33
Zinc	<1.9 mg/kg	TM181						65.4
ANC @ pH 4	<0.03 mol/kg	TM182						1.08
ANC @ pH 6	<0.03 mol/kg	TM182						0.174
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304						<0.001
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304						<0.001
Additional Asbestos Components (Using TM048)		TM304						None
Analysts Comments		TM304						N/A
Asbestos Quantification - Total - %	<0.001 %	TM304						<0.001
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410						<10



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH209	BH209	BH209	BH209	BH209	BH209
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262367	19262370	19262381	19262383	19262385	19262387
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	14	16	14	5.7	10	10
Loss on ignition	<0.7 %	TM018	2.81	2.5	3.3	2.1	2.19	2.43
Mineral Oil Surrogate % recovery**	%	TM061	74.9	82.2	76.5	73	76.3	84.8
Mineral oil >C10-C40	<1 mg/kg	TM061	30.1	30.7	14	4.34	20.6	22.3
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0112	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	0.0212	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.17	0.744	0.747	0.675	0.681	0.705
pH	1 pH Units	TM133	9.59	10.2	8.8	8.64	8.47	8.45
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	13.6	10.1	10	10.1	12.1	10.2
Cadmium	<0.02 mg/kg	TM181	1.22	0.772	1.48	1.66	1.69	1.91
Chromium	<0.9 mg/kg	TM181	9.32	15	7.8	6.46	9.27	10.1
Copper	<1.4 mg/kg	TM181	42.2	31.6	23.8	20.8	30.5	28.8
Lead	<0.7 mg/kg	TM181	69.6	45.6	13.8	13.6	18.2	16.4
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	18.7	21.7	32.4	29.4	40.4	38.6
Selenium	<1 mg/kg	TM181	1.32	1.06	1.93	2.62	3.3	3.46
Zinc	<1.9 mg/kg	TM181	136	93.5	83.7	126	92	85.5
ANC @ pH 4	<0.03 mol/kg	TM182	0.302	0.183	1.76	1.47	2.35	1.98
ANC @ pH 6	<0.03 mol/kg	TM182	0.0667	0.101	0.318	0.297	0.217	0.123
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304	0.0092					
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304	<0.001					
Additional Asbestos Components (Using TM048)		TM304	None					
Analysts Comments		TM304	N/A					



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH209	BH209	BH209	BH209	BH209	BH220
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262372	19262373	19262375	19262376	19262379	19262342
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	15	21	15	13	15	3.3
Loss on ignition	<0.7 %	TM018	2.87	8.62	4.81	2.77	4.87	2.35
Mineral Oil Surrogate % recovery**	%	TM061	80	74	77.4	75.1	73.5	81.1
Mineral oil >C10-C40	<1 mg/kg	TM061	43.6	40.9	3.65	37.3	25.7	18.7
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	0.0118	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	0.0236	0.0252	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	0.0118	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.19	2.47	1.46	0.73	0.55	<0.2
pH	1 pH Units	TM133	7.79	7.81	7.94	8.57	8.67	11.9
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11.7	10.6	10.5	7.47	11.3	6.19
Cadmium	<0.02 mg/kg	TM181	0.598	0.681	0.688	0.873	1.47	0.719
Chromium	<0.9 mg/kg	TM181	9.25	12.4	11.5	5.98	7.44	11.8
Copper	<1.4 mg/kg	TM181	38.5	46.6	34.1	17.9	28.1	10.5
Lead	<0.7 mg/kg	TM181	71.4	88.7	51.7	15.4	19.6	6.38
Mercury	<0.14 mg/kg	TM181	0.143	0.42	0.214	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	26	21.2	20.4	20.8	39.6	14.2
Selenium	<1 mg/kg	TM181	<1	<1	<1	1.37	2.75	<1
Zinc	<1.9 mg/kg	TM181	82.3	79.3	69.4	57.2	95.5	45.7
ANC @ pH 4	<0.03 mol/kg	TM182	0.337	0.31	0.15	1.04	1.49	0.272
ANC @ pH 6	<0.03 mol/kg	TM182	0.0459	0.0468	0.0583	0.126	0.311	0.171
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH220
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262343	19262344	19262355	19262358	19262359	19262363
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	9.8	2	13	6	9.6	9.3
Loss on ignition	<0.7 %	TM018	3.64	1.12	1.37	1.99	1.97	2.4
Mineral Oil Surrogate % recovery**	%	TM061	73.7	79.3	79	81.9	84.1	81.7
Mineral oil >C10-C40	<1 mg/kg	TM061	169 @	107 @	5.79 @	45 @	<1 @	7.2 @
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @	0.0102 @	<0.01 @	<0.01 @	<0.01 @	0.011 @
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 @	0.0204 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06 @	<0.06 @	<0.06 @	<0.06 @	<0.06 @	<0.06 @
Organic Carbon, Total	<0.2 %	TM132	0.556	0.357	0.587	0.655	0.694	1.23
pH	1 pH Units	TM133	12	8.96	8.8	8.53	8.34	8.47
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.34	3.77	9.11	9.57	9.78	10.7
Cadmium	<0.02 mg/kg	TM181	0.74	0.336	1.88	1.55	1.53	1.52
Chromium	<0.9 mg/kg	TM181	13.6	14.4	6.03	7.28	7.53	6.99
Copper	<1.4 mg/kg	TM181	19.2	17	22.7	21.7	23.3	26.4
Lead	<0.7 mg/kg	TM181	44.3	14.3	11.3	13	12.4	12.9
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	16.6	16	28.9	30.9	31.5	34.5
Selenium	<1 mg/kg	TM181	<1	<1	2.77	2.4	2.48	3.15
Zinc	<1.9 mg/kg	TM181	60.1	36	79.1	67.8	75.3	70.1
ANC @ pH 4	<0.03 mol/kg	TM182	0.445	0.221	0.91	1.35	1.23	1.26
ANC @ pH 6	<0.03 mol/kg	TM182	0.184	0.105	0.141	0.24	0.163	0.195
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	11.5	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH221
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262345	19262348	19262350	19262351	19262353	19259932
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024						19
Loss on ignition	<0.7 %	TM018						7.94
Mineral Oil Surrogate % recovery**	%	TM061						69.7
Mineral oil >C10-C40	<1 mg/kg	TM061						1.64
Phenol	<0.01 mg/kg	TM062 (S)						<0.01
Cresols	<0.01 mg/kg	TM062 (S)						<0.01
Xylenols	<0.015 mg/kg	TM062 (S)						<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)						<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)						<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)						<0.06
Organic Carbon, Total	<0.2 %	TM132						2.45
pH	1 pH Units	TM133						7.98
Chromium, Hexavalent	<0.6 mg/kg	TM151						<0.6
PCB congener 28	<3 µg/kg	TM168						<3
PCB congener 52	<3 µg/kg	TM168						<3
PCB congener 101	<3 µg/kg	TM168						<3
PCB congener 118	<3 µg/kg	TM168						<3
PCB congener 138	<3 µg/kg	TM168						<3
PCB congener 153	<3 µg/kg	TM168						<3
PCB congener 180	<3 µg/kg	TM168						<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168						<21
Arsenic	<0.6 mg/kg	TM181						16.8
Cadmium	<0.02 mg/kg	TM181						0.865
Chromium	<0.9 mg/kg	TM181						11.5
Copper	<1.4 mg/kg	TM181						72.7
Lead	<0.7 mg/kg	TM181						139
Mercury	<0.14 mg/kg	TM181						0.758
Nickel	<0.2 mg/kg	TM181						19.5
Selenium	<1 mg/kg	TM181						1.28
Zinc	<1.9 mg/kg	TM181						138
ANC @ pH 4	<0.03 mol/kg	TM182						0.0725
ANC @ pH 6	<0.03 mol/kg	TM182						0.0353
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410						<10
Coronene	<200 µg/kg	TM410						<200
Moisture Content Ratio (% of as received sample)	%	PM024	18	16	15	13	10	
Loss on ignition	<0.7 %	TM018	4	7.19	3.68	2.17	<0.7	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH221
#	ISO17025 accredited.	Depth (m)	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.00	0.00 - 0.50
M	mCERTS accredited.	Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)
aq	Aqueous / settled sample.	Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	31/01/2019
diss.filt	Dissolved / filtered sample.	Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
tot.unfilt	Total / unfiltered sample.	SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
*	Subcontracted - refer to subcontractor report for accreditation status.	Lab Sample No.(s)	19262345	19262348	19262350	19262351	19262353	19259932
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
1-3*5@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Mineral Oil Surrogate % recovery**	%	TM061	81.1 @	78.4 @	76.6 @	79.2 @	85 @	
Mineral oil >C10-C40	<1 mg/kg	TM061	<1 @	11.8 @	<1 @	6.3 @	<1 @	
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @	
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @	
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06 @	<0.06 @	<0.06 @	<0.06 @	<0.06 @	
Organic Carbon, Total	<0.2 %	TM132	3.04	2.1	1.08	0.741	0.388	
pH	1 pH Units	TM133	8.82	8.3	8.46	8.09	9.4	
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	
Arsenic	<0.6 mg/kg	TM181	12.3	10.7	10.9	8.83	4.07	
Cadmium	<0.02 mg/kg	TM181	0.599	0.651	0.548	0.534	0.765	
Chromium	<0.9 mg/kg	TM181	10.9	10.8	14.1	12.1	4.85	
Copper	<1.4 mg/kg	TM181	79.6	42.4	20	21.9	7.18	
Lead	<0.7 mg/kg	TM181	110	63.4	39.3	18.5	4.9	
Mercury	<0.14 mg/kg	TM181	0.365	0.276	<0.14	<0.14	<0.14	
Nickel	<0.2 mg/kg	TM181	25.1	19.8	26.5	24.2	12.6	
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	
Zinc	<1.9 mg/kg	TM181	82.6	73.6	67.8	62.6	39.3	
ANC @ pH 4	<0.03 mol/kg	TM182	0.494	0.172	0.473	0.368	0.0916	
ANC @ pH 6	<0.03 mol/kg	TM182	0.0565	0.0529	0.0744	0.0657	0.0457	
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304	0.0041					
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304	<0.001					
Additional Asbestos Components (Using TM048)		TM304	None					
Analysts Comments		TM304	N/A					
Asbestos Quantification - Total - %	<0.001 %	TM304	0.0041					
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410	<10	<10	<10	<10	<10	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH221	BH221	BH221	BH221	BH221	BH221
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262322	19262337	19262339	19262340	19262324	19262326
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	21				18	19
Loss on ignition	<0.7 %	TM018	3.84				2.62	2.96
Mineral Oil Surrogate % recovery**	%	TM061	72.5				80.9	86.3
Mineral oil >C10-C40	<1 mg/kg	TM061	10.9				2.4	5.48
Phenol	<0.01 mg/kg	TM062 (S)	<0.01				<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01				<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015				<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01				<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015				<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06				<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.35				1	0.996
pH	1 pH Units	TM133	7.86				8.12	7.83
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6				<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	M			<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	M			<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	M			<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	M			<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	M			<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	M			<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	M			<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21				<21	<21
Arsenic	<0.6 mg/kg	TM181	13.5				10.6	9.5
Cadmium	<0.02 mg/kg	TM181	0.698				0.532	0.474
Chromium	<0.9 mg/kg	TM181	14.2				9.88	8.43
Copper	<1.4 mg/kg	TM181	33				19.4	16.4
Lead	<0.7 mg/kg	TM181	67.6				34.8	30.1
Mercury	<0.14 mg/kg	TM181	0.176				<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	19.9				15.9	15.3
Selenium	<1 mg/kg	TM181	<1				<1	<1
Zinc	<1.9 mg/kg	TM181	93.7				56.4	49.3
ANC @ pH 4	<0.03 mol/kg	TM182	0.256				0.354	0.209
ANC @ pH 6	<0.03 mol/kg	TM182	0.0475				0.0685	0.0469
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10				<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200				<200	<200
Moisture Content Ratio (% of as received sample)	%	PM024		13	12	10		
Loss on ignition	<0.7 %	TM018		<0.7	2.1	2.1		



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH221	BH221	BH221	BH221	BH221	BH221
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262322	19262337	19262339	19262340	19262324	19262326
		AGS Reference						
Component	LOD/Units	Method						
Mineral Oil Surrogate % recovery**	%	TM061		73.1 @	83.4 @	74.3 @		
Mineral oil >C10-C40	<1 mg/kg	TM061		<1 @	<1 @	15 @		
Phenol	<0.01 mg/kg	TM062 (S)		<0.01 @	<0.01 @	<0.01 @		
Cresols	<0.01 mg/kg	TM062 (S)		<0.01 @	<0.01 @	<0.01 @		
Xylenols	<0.015 mg/kg	TM062 (S)		<0.015 @	<0.015 @	<0.015 @		
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)		<0.01 @	<0.01 @	<0.01 @		
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)		<0.015 @	<0.015 @	<0.015 @		
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)		<0.06 @	<0.06 @	<0.06 @		
Organic Carbon, Total	<0.2 %	TM132		0.534	0.717	0.748		
pH	1 pH Units	TM133		8.53	8.63	8.82		
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6	<0.6	<0.6		
PCB congener 28	<3 µg/kg	TM168		<3	<3	<3		
PCB congener 52	<3 µg/kg	TM168		<3	<3	<3		
PCB congener 101	<3 µg/kg	TM168		<3	<3	<3		
PCB congener 118	<3 µg/kg	TM168		<3	<3	<3		
PCB congener 138	<3 µg/kg	TM168		<3	<3	<3		
PCB congener 153	<3 µg/kg	TM168		<3	<3	<3		
PCB congener 180	<3 µg/kg	TM168		<3	<3	<3		
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21		
Arsenic	<0.6 mg/kg	TM181		11.3	9.69	9.16		
Cadmium	<0.02 mg/kg	TM181		1.73	3.22	1.55		
Chromium	<0.9 mg/kg	TM181		10.6	8.23	7.03		
Copper	<1.4 mg/kg	TM181		25.7	29.3	24.2		
Lead	<0.7 mg/kg	TM181		15.5	17.3	15.7		
Mercury	<0.14 mg/kg	TM181		<0.14	<0.14	<0.14		
Nickel	<0.2 mg/kg	TM181		32.3	35.4	31.1		
Selenium	<1 mg/kg	TM181		3.67	4.03	3.01		
Zinc	<1.9 mg/kg	TM181		84.4	79.5	75.6		
ANC @ pH 4	<0.03 mol/kg	TM182		0.989	1.39	1.55		
ANC @ pH 6	<0.03 mol/kg	TM182		0.216	0.306	0.261		
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10		
Coronene	<200 µg/kg	TM410		<200	<200	<200		



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH221	BH221			
#	ISO17025 accredited.						
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted - refer to subcontractor report for accreditation status.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.						
1-3*§@	Sample deviation (see appendix)						
		Depth (m)	4.00 - 5.00	6.00 - 7.00			
		Sample Type	Soil/Solid (S)	Soil/Solid (S)			
		Date Sampled	30/01/2019	30/01/2019			
		Date Received	02/02/2019	02/02/2019			
		SDG Ref	190202-56	190202-56			
		Lab Sample No.(s)	19262328	19262331			
		AGS Reference					
Component	LOD/Units	Method					
Moisture Content Ratio (% of as received sample)	%	PM024	23	17			
Loss on ignition	<0.7 %	TM018	3.78	<0.7			
Mineral Oil Surrogate % recovery**	%	TM061	72.4	79.4			
Mineral oil >C10-C40	<1 mg/kg	TM061	15.4	20.7	@	@	
Phenol	<0.01 mg/kg	TM062 (S)	0.013	<0.01	@	@	
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	@	@	
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	@	@	
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	@	@	
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	@	@	
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	@	@	
Organic Carbon, Total	<0.2 %	TM132	2.05	0.704			
pH	1 pH Units	TM133	7.83	8.12			
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6			
PCB congener 28	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 52	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 101	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 118	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 138	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 153	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 180	<3 µg/kg	TM168	<3	<3	M	M	
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21			
Arsenic	<0.6 mg/kg	TM181	9.29	8.99			
Cadmium	<0.02 mg/kg	TM181	0.498	0.553			
Chromium	<0.9 mg/kg	TM181	9.07	4.34			
Copper	<1.4 mg/kg	TM181	22.7	16.7			
Lead	<0.7 mg/kg	TM181	50.5	30.1			
Mercury	<0.14 mg/kg	TM181	0.154	<0.14			
Nickel	<0.2 mg/kg	TM181	15.1	15.8			
Selenium	<1 mg/kg	TM181	<1	1.05			
Zinc	<1.9 mg/kg	TM181	58.3	66.3			
ANC @ pH 4	<0.03 mol/kg	TM182	0.171	0.188			
ANC @ pH 6	<0.03 mol/kg	TM182	0.0459	0.0498			
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10			
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH206	BH206	BH206	BH206	BH206	BH207
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259863	19259864	19259865	19259870	19259872	19259884
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	91.9	95.1	98.6	99	96.8	98.4
Acenaphthene-d10 % recovery**	%	TM218	92.7	99.8	90.1	93.4	99.3	95.3
Phenanthrene-d10 % recovery**	%	TM218	101	92.3	95.8	93.2	89	101
Chrysene-d12 % recovery**	%	TM218	95.7	94.7	88.1	85.3	84.6	102
Perylene-d12 % recovery**	%	TM218	103	80.8	81.6	79.5	78.4	97.4
Naphthalene	<9 µg/kg	TM218	36	54.1	12.6	<9	<9	456
Acenaphthylene	<12 µg/kg	TM218	<12	28.5	<12	<12	<12	415
Acenaphthene	<8 µg/kg	TM218	18	35.3	<8	<8	<8	276
Fluorene	<10 µg/kg	TM218	52.9	72.8	18.5	<10	<10	1020
Phenanthrene	<15 µg/kg	TM218	180	298	78.8	24	<15	8240
Anthracene	<16 µg/kg	TM218	102	189	36.8	<16	<16	1130
Fluoranthene	<17 µg/kg	TM218	304	530	125	30.4	<17	7910
Pyrene	<15 µg/kg	TM218	249	371	98.1	23.7	<15	6810
Benz(a)anthracene	<14 µg/kg	TM218	175	330	53.3	<14	<14	2840
Chrysene	<10 µg/kg	TM218	139	255	51	<10	<10	2650
Benzo(b)fluoranthene	<15 µg/kg	TM218	212	340	40.3	<15	<15	2240
Benzo(k)fluoranthene	<14 µg/kg	TM218	84.8	154	21.3	<14	<14	1070
Benzo(a)pyrene	<15 µg/kg	TM218	133	198	43.7	<15	<15	2390
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	66.5	125	<18	<18	<18	1050
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	38.9	<23	<23	<23	314
Benzo(g,h,i)perylene	<24 µg/kg	TM218	66.7	123	<24	<24	<24	1220
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1820	3140	579	<118	<118	40000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH207	BH207	BH207	BH207	BH207	BH208	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	16.00 - 17.00	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
diss.filt	Dissolved / filtered sample.		02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
tot.unfilt	Total / unfiltered sample.		190202-56	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
*	Subcontracted - refer to subcontractor report for accreditation status.		19259903	19259889	19259891	19259893	19259896	19259904	19259904
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	95.5	95	94.6	95.7	101	93.9
Acenaphthene-d10 % recovery**	%	TM218	99.5	96.2	100	91.8	92.1	91.8	
Phenanthrene-d10 % recovery**	%	TM218	99.3	103	98.5	97	94.4	103	
Chrysene-d12 % recovery**	%	TM218	82.3	99.5	87	90.6	83.1	88.7	
Perylene-d12 % recovery**	%	TM218	74.6	88.6	81.1	97.2	77.5	88.8	
Naphthalene	<9 µg/kg	TM218	<9	141	15.7	11.9	<9	2580	
Acenaphthylene	<12 µg/kg	TM218	<12	92.9	<12	<12	<12	1510	
Acenaphthene	<8 µg/kg	TM218	<8	232	11.6	<8	<8	941	
Fluorene	<10 µg/kg	TM218	<10	324	21.5	19	<10	3840	
Phenanthrene	<15 µg/kg	TM218	<15	577	71.7	54.1	<15	22400	
Anthracene	<16 µg/kg	TM218	<16	773	42.9	32	<16	3480	
Fluoranthene	<17 µg/kg	TM218	<17	2470	124	94.1	<17	19800	
Pyrene	<15 µg/kg	TM218	<15	1840	95.2	75.1	<15	17800	
Benz(a)anthracene	<14 µg/kg	TM218	<14	1240	60.6	53.3	<14	7580	
Chrysene	<10 µg/kg	TM218	<10	896	50	45.1	<10	6640	
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	1070	66	56.4	<15	6760	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	487	23.7	24.4	<14	2620	
Benzo(a)pyrene	<15 µg/kg	TM218	<15	774	40.1	42.2	<15	6500	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	423	<18	24.1	<18	3170	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	134	<23	<23	<23	944	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	406	<24	<24	<24	3630	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	11900	623	532	<118	110000	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH208	BH208	BH208	BH208	BH208	BH208
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259905	19259906	19259919	19259920	19259923	19259924
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	96.7	93.8	101	99.6	100	98.7
Acenaphthene-d10 % recovery**	%	TM218	90.2	99.6	95.3	92.9	92.8	90.8
Phenanthrene-d10 % recovery**	%	TM218	94.2	100	93.8	92.3	97.6	89.6
Chrysene-d12 % recovery**	%	TM218	96.1	91.4	80.5	76	78	84.5
Perylene-d12 % recovery**	%	TM218	80.4	77	76.5	71.9	73.7	81.6
Naphthalene	<9 µg/kg	TM218	143	22.8	<9	<9	<9	<9
Acenaphthylene	<12 µg/kg	TM218	171	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	57.4	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	322	79.1	<10	<10	<10	<10
Phenanthrene	<15 µg/kg	TM218	2480	714	<15	<15	19.3	<15
Anthracene	<16 µg/kg	TM218	352	104	<16	<16	18.6	<16
Fluoranthene	<17 µg/kg	TM218	2630	671	<17	<17	<17	<17
Pyrene	<15 µg/kg	TM218	2310	625	<15	<15	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218	1040	291	<14	<14	<14	<14
Chrysene	<10 µg/kg	TM218	1050	258	<10	11.5	<10	14.1
Benzo(b)fluoranthene	<15 µg/kg	TM218	1330	295	<15	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	534	113	<14	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	798	183	<15	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	520	122	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	101	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	516	121	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	14300	3660	<118	<118	<118	<118



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH208	BH208	BH208	BH208	BH208	BH209
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Unspecified Solid (UNS)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259926	19259907	19259909	19259911	19259916	19262365
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	101	99.5	105	94.3	98.3	
Acenaphthene-d10 % recovery**	%	TM218	92.2	91	103	84.5	95.4	
Phenanthrene-d10 % recovery**	%	TM218	95.5	92.6	99.4	94.2	95.6	
Chrysene-d12 % recovery**	%	TM218	90.1	83	92.8	99.7	86.1	
Perylene-d12 % recovery**	%	TM218	88.8	80.3	92	101	82.5	
Naphthalene	<9 µg/kg	TM218	<9	18.2	13.1	22.7	<9	
Acenaphthylene	<12 µg/kg	TM218	<12	24.5	<12	<12	<12	
Acenaphthene	<8 µg/kg	TM218	<8	14.8	10.1	11.8	<8	
Fluorene	<10 µg/kg	TM218	<10	45.6	25.4	29.8	<10	
Phenanthrene	<15 µg/kg	TM218	<15	394	137	149	29.5	
Anthracene	<16 µg/kg	TM218	<16	56.3	45.2	45.2	<16	
Fluoranthene	<17 µg/kg	TM218	<17	478	226	189	34.3	
Pyrene	<15 µg/kg	TM218	<15	406	180	171	30.9	
Benz(a)anthracene	<14 µg/kg	TM218	<14	192	106	99.4	<14	
Chrysene	<10 µg/kg	TM218	<10	168	92.8	82.7	11	
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	141	134	121	<15	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	72.7	54.5	45.3	<14	
Benzo(a)pyrene	<15 µg/kg	TM218	<15	149	87.9	82.1	<15	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	61.1	50	43	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	74.1	49.6	48.5	<24	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	2300	1210	1140	<118	
Naphthalene-d8 % recovery**	%	TM218						95.1
Acenaphthene-d10 % recovery**	%	TM218						93.7
Phenanthrene-d10 % recovery**	%	TM218						98.4
Chrysene-d12 % recovery**	%	TM218						91.1
Perylene-d12 % recovery**	%	TM218						93.1
Naphthalene	<9 µg/kg	TM218						19
Acenaphthylene	<12 µg/kg	TM218						<12
Acenaphthene	<8 µg/kg	TM218						11.3
Fluorene	<10 µg/kg	TM218						14.9
Phenanthrene	<15 µg/kg	TM218						115
Anthracene	<16 µg/kg	TM218						21
Fluoranthene	<17 µg/kg	TM218						213
Pyrene	<15 µg/kg	TM218						197
Benz(a)anthracene	<14 µg/kg	TM218						85.8



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH209	BH209	BH209	BH209	BH209	BH209	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	
aq	Aqueous / settled sample.		30/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	
diss.filt	Dissolved / filtered sample.		02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	
tot.unfilt	Total / unfiltered sample.		190202-56	190202-56	190202-56	190202-56	190202-56	190202-56	
*	Subcontracted - refer to subcontractor report for accreditation status.		19262367	19262370	19262381	19262383	19262385	19262387	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	99	91.1	95.7	119	94	94.6
Acenaphthene-d10 % recovery**	%	TM218	90.1	92	97	114	86.5	94	
Phenanthrene-d10 % recovery**	%	TM218	90.3	91.8	99.3	113	87.4	92.1	
Chrysene-d12 % recovery**	%	TM218	83.6	88.1	93.1	86.9	68.1	82.5	
Perylene-d12 % recovery**	%	TM218	82.1	90.8	90	79.1	60.9	75.4	
Naphthalene	<9 µg/kg	TM218	33.3	34.2	<9	11.6	<9	13.6	
Acenaphthylene	<12 µg/kg	TM218	33.9	31.3	<12	<12	<12	<12	
Acenaphthene	<8 µg/kg	TM218	21.6	22.1	<8	<8	<8	<8	
Fluorene	<10 µg/kg	TM218	34.6	27.3	<10	12.1	<10	<10	
Phenanthrene	<15 µg/kg	TM218	420	209	<15	39.9	32.5	37.6	
Anthracene	<16 µg/kg	TM218	76.2	49.5	<16	<16	<16	36.3	
Fluoranthene	<17 µg/kg	TM218	806	402	<17	<17	<17	<17	
Pyrene	<15 µg/kg	TM218	713	373	<15	<15	<15	<15	
Benz(a)anthracene	<14 µg/kg	TM218	283	191	<14	<14	<14	<14	
Chrysene	<10 µg/kg	TM218	269	149	<10	<10	<10	<10	
Benzo(b)fluoranthene	<15 µg/kg	TM218	253	282	<15	<15	<15	<15	
Benzo(k)fluoranthene	<14 µg/kg	TM218	111	87.4	<14	<14	<14	<14	
Benzo(a)pyrene	<15 µg/kg	TM218	264	182	<15	<15	<15	<15	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	120	96.4	<18	<18	<18	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	40.4	27.8	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	153	120	<24	<24	<24	<24	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	3630	2280	<118	<118	<118	<118	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH209	BH209	BH209	BH209	BH209	BH220	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50	
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	
aq	Aqueous / filtered sample.		31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	30/01/2019	
diss.filt	Dissolved / filtered sample.		02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	
tot.unfilt	Total / unfiltered sample.		190202-56	190202-56	190202-56	190202-56	190202-56	190202-56	
*	Subcontracted - refer to subcontractor report for accreditation status.		19262372	19262373	19262375	19262376	19262379	19262342	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	90.9	92.4	98	98.5	92.5	99.1
Acenaphthene-d10 % recovery**	%	TM218	92.6	93.6	91.4	93.3	86.5	90.5	
Phenanthrene-d10 % recovery**	%	TM218	93.1	100	93	101	94.3	88.9	
Chrysene-d12 % recovery**	%	TM218	88	94.4	89.1	97.8	88.3	88.6	
Perylene-d12 % recovery**	%	TM218	86.2	94.5	88.6	96.3	92.1	85.5	
Naphthalene	<9 µg/kg	TM218	16.2	24.9	11.9	17.6	<9	<9	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12 @	
Acenaphthene	<8 µg/kg	TM218	<8	13.2	<8	<8	<8	<8 @	
Fluorene	<10 µg/kg	TM218	<10	25.1	14.4	21.2	<10	<10 @	
Phenanthrene	<15 µg/kg	TM218	108	127	44.9	73.5	<15	<15 @	
Anthracene	<16 µg/kg	TM218	31.4	47.1	27.7	39.8	<16	<16 @	
Fluoranthene	<17 µg/kg	TM218	197	174	90.9	116	<17	<17 @	
Pyrene	<15 µg/kg	TM218	173	146	73.7	96.6	<15	<15 @	
Benz(a)anthracene	<14 µg/kg	TM218	108	80.4	53.6	67.9	<14	<14 @	
Chrysene	<10 µg/kg	TM218	104	64.7	43.7	51.5	<10	<10 @	
Benzo(b)fluoranthene	<15 µg/kg	TM218	142	40.7	61.6	74.5	<15	<15 @	
Benzo(k)fluoranthene	<14 µg/kg	TM218	58.7	32	22.8	27.2	<14	<14 @	
Benzo(a)pyrene	<15 µg/kg	TM218	96.2	67	39.6	49	<15	<15 @	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	47.7	30.9	<18	25.2	<18	<18 @	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23 @	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	55.1	44.1	<24	<24	<24	<24 @	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1140	918	485	660	<118	<118	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH220
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / filtered sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262343	19262344	19262355	19262358	19262359	19262363
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	93.3	97.7	98.8	95.2	102	93.4
Acenaphthene-d10 % recovery**	%	TM218	93.9	91.3	93.1	93.3	93.5	93.5
Phenanthrene-d10 % recovery**	%	TM218	99.2	93.1	86.3	88.6	94	92.2
Chrysene-d12 % recovery**	%	TM218	96.8	100	78	73.4	79.9	87.3
Perylene-d12 % recovery**	%	TM218	104	96.2	79.5	70.5	74.1	83
Naphthalene	<9 µg/kg	TM218	<9	919	<9	13.6	<9	<9
Acenaphthylene	<12 µg/kg	TM218	<12	163	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	603	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	<10	670	<10	<10	<10	<10
Phenanthrene	<15 µg/kg	TM218	<15	2300	<15	51.4	<15	<15
Anthracene	<16 µg/kg	TM218	<16	640	<16	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218	<17	1830	<17	<17	<17	<17
Pyrene	<15 µg/kg	TM218	<15	1430	<15	<15	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218	<14	627	<14	<14	<14	<14
Chrysene	<10 µg/kg	TM218	<10	493	<10	<10	<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	630	<15	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	252	<14	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	<15	473	<15	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	207	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	64.3	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	231	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	11500	<118	<118	<118	<118



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH221
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / filtered sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262345	19262348	19262350	19262351	19262353	19259932
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218						93.8
Acenaphthene-d10 % recovery**	%	TM218						97.2
Phenanthrene-d10 % recovery**	%	TM218						102
Chrysene-d12 % recovery**	%	TM218						95.8
Perylene-d12 % recovery**	%	TM218						92.8
Naphthalene	<9 µg/kg	TM218						62.9
Acenaphthylene	<12 µg/kg	TM218						50.9
Acenaphthene	<8 µg/kg	TM218						35.4
Fluorene	<10 µg/kg	TM218						96.4
Phenanthrene	<15 µg/kg	TM218						422
Anthracene	<16 µg/kg	TM218						345
Fluoranthene	<17 µg/kg	TM218						1360
Pyrene	<15 µg/kg	TM218						1030
Benz(a)anthracene	<14 µg/kg	TM218						791
Chrysene	<10 µg/kg	TM218						560
Benzo(b)fluoranthene	<15 µg/kg	TM218						724
Benzo(k)fluoranthene	<14 µg/kg	TM218						326
Benzo(a)pyrene	<15 µg/kg	TM218						532
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218						249
Dibenzo(a,h)anthracene	<23 µg/kg	TM218						83
Benzo(g,h,i)perylene	<24 µg/kg	TM218						258
PAH, Total Detected USEPA 16	<118 µg/kg	TM218						6920
Naphthalene-d8 % recovery**	%	TM218	97.7	91.4	96.8	98.6	94.4	
Acenaphthene-d10 % recovery**	%	TM218	91.2	93.3	102	90.6	94.3	
Phenanthrene-d10 % recovery**	%	TM218	87.1	98.6	95.1	91.6	93.7	
Chrysene-d12 % recovery**	%	TM218	89	89.4	93.6	75.9	88	
Perylene-d12 % recovery**	%	TM218	88	88.3	80.9	73.3	87.7	
Naphthalene	<9 µg/kg	TM218	<9	<9	<9	<9	<9	
Acenaphthylene	<12 µg/kg	TM218	<12 @	<12 @	<12 @	<12 @	<12 @	
Acenaphthene	<8 µg/kg	TM218	<8 @	<8 @	<8 @	<8 @	<8 @	
Fluorene	<10 µg/kg	TM218	<10 @	19.6 @	<10 @	<10 @	<10 @	
Phenanthrene	<15 µg/kg	TM218	<15 @	79.5 @	37.3 @	19 @	<15 @	
Anthracene	<16 µg/kg	TM218	<16 @	32.1 @	<16 @	<16 @	<16 @	
Fluoranthene	<17 µg/kg	TM218	<17 @	112 @	39.7 @	21.1 @	<17 @	
Pyrene	<15 µg/kg	TM218	<15 @	88 @	36.4 @	17.8 @	<15 @	
Benz(a)anthracene	<14 µg/kg	TM218	<14 @	59.8 @	26.6 @	<14 @	<14 @	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH221	BH221	BH221	BH221	BH221	BH221
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262322	19262337	19262339	19262340	19262324	19262326
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	90				102	110
Acenaphthene-d10 % recovery**	%	TM218	89.7				94.6	99.8
Phenanthrene-d10 % recovery**	%	TM218	90.9				92.2	99.2
Chrysene-d12 % recovery**	%	TM218	100				88.2	96.7
Perylene-d12 % recovery**	%	TM218	103				90.1	95.1
Naphthalene	<9 µg/kg	TM218	15.5				<9	<9
Acenaphthylene	<12 µg/kg	TM218	<12	@			<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	@			<8	<8
Fluorene	<10 µg/kg	TM218	15.8	@			<10	<10
Phenanthrene	<15 µg/kg	TM218	91.1	@			<15	<15
Anthracene	<16 µg/kg	TM218	43.2	@			<16	<16
Fluoranthene	<17 µg/kg	TM218	205	@			<17	<17
Pyrene	<15 µg/kg	TM218	169	@			<15	<15
Benz(a)anthracene	<14 µg/kg	TM218	142	@			<14	<14
Chrysene	<10 µg/kg	TM218	134	@			<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	194	@			<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	94.3	@			<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	134	@			<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	76.8	@			<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	@			<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	72.2	@			<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1390				<118	<118
Naphthalene-d8 % recovery**	%	TM218			96.6	93.6	96	
Acenaphthene-d10 % recovery**	%	TM218			94.5	92.9	83.5	
Phenanthrene-d10 % recovery**	%	TM218			95.2	92	87.2	
Chrysene-d12 % recovery**	%	TM218			82.6	83.8	71.7	
Perylene-d12 % recovery**	%	TM218			76.4	80.9	67.9	
Naphthalene	<9 µg/kg	TM218			<9	<9	<9	
Acenaphthylene	<12 µg/kg	TM218			<12	<12	<12	
Acenaphthene	<8 µg/kg	TM218			<8	<8	<8	
Fluorene	<10 µg/kg	TM218			<10	<10	<10	
Phenanthrene	<15 µg/kg	TM218			<15	<15	<15	
Anthracene	<16 µg/kg	TM218			<16	<16	<16	
Fluoranthene	<17 µg/kg	TM218			<17	<17	<17	
Pyrene	<15 µg/kg	TM218			<15	<15	<15	
Benz(a)anthracene	<14 µg/kg	TM218			<14	<14	<14	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH207	BH207	BH207	BH207	BH207	BH207
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259886	19259887	19259898	19259899	19259900	19259902
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	71.7	95.4	44	38.7	21.2	36.4
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	<100	<100	<100	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	1970	<100	632	512	913	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	6090	389	1110	487	<100	432
Aliphatics >C21-C35	<100 µg/kg	TM173	34300	3290	9580	20000	10300	6430
Aliphatics >C35-C44	<100 µg/kg	TM173	10200	402	1850	4170	2080	1050
Total Aliphatics >C12-C44	<100 µg/kg	TM173	52600	4080	13200	25100	13300	7910
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	938	822	612	1400	2020	368
Aromatics >EC16-EC21	<100 µg/kg	TM173	7630	2210	608	1780	2200	526
Aromatics >EC21-EC35	<100 µg/kg	TM173	31200	12300	4630	11200	7210	3470
Aromatics >EC35-EC44	<100 µg/kg	TM173	13500	1840	970	1250	1080	483
Aromatics >EC40-EC44	<100 µg/kg	TM173	5350	<100	136	<100	<100	269
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	53300	17200	6820	15600	12500	4850
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	106000	21300	20000	40700	25800	12800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH208	BH208	BH208	BH208	BH208	BH208
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259905	19259906	19259919	19259920	19259923	19259924
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	96.7	130	82.3	15.8	21.2	12.9
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	274	<100	<100	<100	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	46.4	<10	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	24.4	<10	<10	<10	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	48.7	<10	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	69.6	<10	<10	<10	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	108	101	<100	1950	<100	444
Aliphatics >C16-C21	<100 µg/kg	TM173	316	<100	<100	1580	911	1550
Aliphatics >C21-C35	<100 µg/kg	TM173	7580	8010	7190	7960	4300	4620
Aliphatics >C35-C44	<100 µg/kg	TM173	1080	978	1850	2300	975	659
Total Aliphatics >C12-C44	<100 µg/kg	TM173	9090	9090	9040	13800	6180	7270
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	32.5	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	46.4	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	2790	544	<100	976	1190	1340
Aromatics >EC16-EC21	<100 µg/kg	TM173	16800	3070	<100	834	1510	1700
Aromatics >EC21-EC35	<100 µg/kg	TM173	46800	16600	1140	2350	5360	7590
Aromatics >EC35-EC44	<100 µg/kg	TM173	12200	4070	205	314	936	1650
Aromatics >EC40-EC44	<100 µg/kg	TM173	3560	1100	301	<100	106	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	78600	24300	1340	4470	9000	12300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	87900	33400	10400	18300	15200	19500



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH208	BH208	BH208	BH208	BH208	BH209
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Unspecified Solid (UNS)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259926	19259907	19259909	19259911	19259916	19262365
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	14	89.3	114	82.9	101	
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	<100	<100	150	<100	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	18.3	<10	
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10	13.9	18.3	<10	
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10	17.6	23.2	<10	
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	10.8	12.6	42.7	<10	
Aliphatics >C12-C16	<100 µg/kg	TM173	138	<100	871	<100	<100	
Aliphatics >C16-C21	<100 µg/kg	TM173	1110	101	2030	3380	741	
Aliphatics >C21-C35	<100 µg/kg	TM173	9770	19400	5760	58800	10100	
Aliphatics >C35-C44	<100 µg/kg	TM173	1360	10800	486	33600	5710	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	12400	30300	9150	95700	16500	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10	12.6	15.9	<10	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	<10	29.3	<10	
Aromatics >EC12-EC16	<100 µg/kg	TM173	557	604	1880	1440	314	
Aromatics >EC16-EC21	<100 µg/kg	TM173	993	3940	6300	12100	697	
Aromatics >EC21-EC35	<100 µg/kg	TM173	4060	22300	31200	59000	5750	
Aromatics >EC35-EC44	<100 µg/kg	TM173	506	8390	3700	18700	1140	
Aromatics >EC40-EC44	<100 µg/kg	TM173	221	2850	435	7070	<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	6120	35200	43100	91200	7900	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	18500	65500	52300	187000	24400	
GRO Surrogate % recovery**	%	TM089						104
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089						<100
Aliphatics >C5-C6	<10 µg/kg	TM089						<10
Aliphatics >C6-C8	<10 µg/kg	TM089						<10
Aliphatics >C8-C10	<10 µg/kg	TM089						<10
Aliphatics >C10-C12	<10 µg/kg	TM089						<10
Aliphatics >C12-C16	<100 µg/kg	TM173						<100
Aliphatics >C16-C21	<100 µg/kg	TM173						470
Aliphatics >C21-C35	<100 µg/kg	TM173						18700
Aliphatics >C35-C44	<100 µg/kg	TM173						4500
Total Aliphatics >C12-C44	<100 µg/kg	TM173						23700
Aromatics >EC5-EC7	<10 µg/kg	TM089						<10
Aromatics >EC7-EC8	<10 µg/kg	TM089						<10
Aromatics >EC8-EC10	<10 µg/kg	TM089						<10



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH209	BH209	BH209	BH209	BH209	BH209
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	30/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262367	19262370	19262381	19262383	19262385	19262387
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	52.6	65.9	40.9	12.1	14.7	11.4
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	771	<100	<100	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	28.6	<10	<10	14.6	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	71.4	<10	<10	16.8	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	69	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	327	<10	<10	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	455	<100	1220	2240	2410
Aliphatics >C16-C21	<100 µg/kg	TM173	1150	1490	<100	1730	2520	2180
Aliphatics >C21-C35	<100 µg/kg	TM173	17300	15500	7410	5040	9060	23900
Aliphatics >C35-C44	<100 µg/kg	TM173	4330	3380	1370	864	1550	5160
Total Aliphatics >C12-C44	<100 µg/kg	TM173	22800	20800	8780	8860	15400	33600
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	10.7	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	45.2	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	218	<10	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	587	1330	1240	602	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	1340	2810	1360	1040	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	2890	12700	6240	2260	<100	6730
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	7310	493	<100	<100	1140
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	3610	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	4820	24100	9330	3900	<100	7870
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	27600	45700	18100	12800	15400	41500



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH209	BH209	BH209	BH209	BH209	BH220
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262372	19262373	19262375	19262376	19262379	19262342
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	79.9	94.2	125	101	92	82.7
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	<100	138	333	<100	328
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	19.9	16.1	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10	32.8	44.9	<10	31
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10	26.9	71.3	<10	49.6
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10	21.1	90.9	<10	122
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	330	<100	<100	<100	628
Aliphatics >C16-C21	<100 µg/kg	TM173	1960	1070	276	<100	<100	3200
Aliphatics >C21-C35	<100 µg/kg	TM173	83400	8440	3050	5000	398	11500
Aliphatics >C35-C44	<100 µg/kg	TM173	25300	1680	2470	2230	<100	1320
Total Aliphatics >C12-C44	<100 µg/kg	TM173	111000	11500	5790	7230	398	16700
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10	18.7	47.2	<10	33.1
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	14	59.8	<10	81.7
Aromatics >EC12-EC16	<100 µg/kg	TM173	326	344	249	<100	<100	323
Aromatics >EC16-EC21	<100 µg/kg	TM173	4500	6070	4360	758	<100	875
Aromatics >EC21-EC35	<100 µg/kg	TM173	52300	17500	18800	9880	3260	13700
Aromatics >EC35-EC44	<100 µg/kg	TM173	24200	402	14700	11600	8970	3330
Aromatics >EC40-EC44	<100 µg/kg	TM173	8640	<100	7050	6060	4760	804
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	81300	24300	38100	22200	12200	18300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	192000	35800	44000	29800	12600	35300



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH220
#	ISO17025 accredited.	Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
M	mCERTS accredited.	Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
aq	Aqueous / settled sample.	Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
diss.filt	Dissolved / filtered sample.	Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
tot.unfilt	Total / unfiltered sample.	SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
*	Subcontracted - refer to subcontractor report for accreditation status.	Lab Sample No.(s)	19262343	19262344	19262355	19262358	19262359	19262363
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	94.3	83.2	76.8	22.5	40.2	18.6
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	412 @	5050 @	<100 @	<100 2	178	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	16.7 @	<10 @	<10 @	<10 2	42.2	13.2 @
Aliphatics >C6-C8	<10 µg/kg	TM089	36.6 @	38.8 @	<10 @	<10 2	55.5	17.6 @
Aliphatics >C8-C10	<10 µg/kg	TM089	101 @	559 @	<10 @	<10 2	25.5	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	111 @	2440 @	<10 @	<10 2	22.2	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173	3340	1570	1000	1370	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	22100	7210	911	1160	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	340000	46400	11800	32700	13500	14000
Aliphatics >C35-C44	<100 µg/kg	TM173	83400	6050	2730	6820	3910	2700
Total Aliphatics >C12-C44	<100 µg/kg	TM173	449000	61200	16400	42100	17400	16700
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 2	<10	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 2	<10	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	67.7 @	372 @	<10 @	<10 2	16.7	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	74.4 @	1630 @	<10 @	<10 2	15.5	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	2470	6000	<100	1460	724	124
Aromatics >EC16-EC21	<100 µg/kg	TM173	11200	7280	<100	1630	805	122
Aromatics >EC21-EC35	<100 µg/kg	TM173	114000	26900	4330	9510	7030	5700
Aromatics >EC35-EC44	<100 µg/kg	TM173	32200	4190	<100	1340	5520	670
Aromatics >EC40-EC44	<100 µg/kg	TM173	9160	823	<100	<100	2470	307
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	160000	44400	4330	13900	14100	6620
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	609000	111000	20700	56000	31700	23400



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH221
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262345	19262348	19262350	19262351	19262353	19259932
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089						89.2
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089						<100
Aliphatics >C5-C6	<10 µg/kg	TM089						13.6
Aliphatics >C6-C8	<10 µg/kg	TM089						16.1
Aliphatics >C8-C10	<10 µg/kg	TM089						18.6
Aliphatics >C10-C12	<10 µg/kg	TM089						24.8
Aliphatics >C12-C16	<100 µg/kg	TM173						<100
Aliphatics >C16-C21	<100 µg/kg	TM173						3230
Aliphatics >C21-C35	<100 µg/kg	TM173						6970
Aliphatics >C35-C44	<100 µg/kg	TM173						263
Total Aliphatics >C12-C44	<100 µg/kg	TM173						10500
Aromatics >EC5-EC7	<10 µg/kg	TM089						<10
Aromatics >EC7-EC8	<10 µg/kg	TM089						<10
Aromatics >EC8-EC10	<10 µg/kg	TM089						12.4
Aromatics >EC10-EC12	<10 µg/kg	TM089						16.1
Aromatics >EC12-EC16	<100 µg/kg	TM173						568
Aromatics >EC16-EC21	<100 µg/kg	TM173						9580
Aromatics >EC21-EC35	<100 µg/kg	TM173						46700
Aromatics >EC35-EC44	<100 µg/kg	TM173						9100
Aromatics >EC40-EC44	<100 µg/kg	TM173						2600
Total Aromatics >EC12-EC44	<100 µg/kg	TM173						66000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173						76500
GRO Surrogate % recovery**	%	TM089	116	88	90.8	106	87.4	
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	222	<100	<100	<100	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	16.7	<10	<10	<10	
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	34.5	<10	18.4	<10	
Aliphatics >C8-C10	<10 µg/kg	TM089	12.2	50	<10	21.9	<10	
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	51.2	<10	27.6	<10	
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	133	775	702	165	
Aliphatics >C16-C21	<100 µg/kg	TM173	540	2070	1890	945	<100	
Aliphatics >C21-C35	<100 µg/kg	TM173	9580	16300	10200	6180	883	
Aliphatics >C35-C44	<100 µg/kg	TM173	1480	3180	1270	891	230	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	11600	21700	14100	8720	1280	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	33.3	<10	15	<10	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH221	BH221	BH221	BH221	BH221	BH221
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19262322	19262337	19262339	19262340	19262324	19262326
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	93.5				104	91.4
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100				194	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	<10				11	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	<10				28.1	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	<10				53.7	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	<10				39	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	<100				<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	1310				<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	11200				5570	7320
Aliphatics >C35-C44	<100 µg/kg	TM173	442				543	1890
Total Aliphatics >C12-C44	<100 µg/kg	TM173	12900				6110	9220
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10				<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10				<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10				35.4	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10				25.6	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	629				2220	617
Aromatics >EC16-EC21	<100 µg/kg	TM173	3380				1210	2910
Aromatics >EC21-EC35	<100 µg/kg	TM173	25000				13300	19400
Aromatics >EC35-EC44	<100 µg/kg	TM173	7470				1950	6490
Aromatics >EC40-EC44	<100 µg/kg	TM173	2350				<100	2260
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	36500				18600	29400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	49400				24900	38600
GRO Surrogate % recovery**	%	TM089		42.5	17.6	16.6		
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089		<100	<100	<100		
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	<10		
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	<10	<10		
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10	<10		
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	<10	<10		
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	1370	<100		
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	1440	1400		
Aliphatics >C21-C35	<100 µg/kg	TM173		5230	7610	4000		
Aliphatics >C35-C44	<100 µg/kg	TM173		2200	2350	360		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		7430	12800	5760		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	<10	<10		



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH206	BH206	BH206	BH206	BH206	BH206
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259861	19259862	19259874	19259876	19259878	19259879
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	107	108	118	112	110	112
Toluene-d8**	%	TM116	96.1	97.8	94.2	94.3	96.3	97.5
4-Bromofluorobenzene**	%	TM116	89.7	87.3	82.5	74.1	85.5	81.4
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
Benzene	<9 µg/kg	TM116	<180	<180	<180	<180	<180	<180
Toluene	<7 µg/kg	TM116	<140	<140	<140	<140	<140	<140
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<80	<80	<80
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<800	<800	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH207	BH207	BH207	BH207	BH207	BH207
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259886	19259887	19259898	19259899	19259900	19259902
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	109	124	126	131	114	112
Toluene-d8**	%	TM116	97.9	98.4	96.7	96.5	91.1	98.7
4-Bromofluorobenzene**	%	TM116	90.9	100	95.3	85	72	87.5
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
Benzene	<9 µg/kg	TM116	<180	<180	<180	<180	<180	<180
Toluene	<7 µg/kg	TM116	<140	<140	<140	<140	<140	<140
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<80	<80	<80
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<800	<800	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH207	BH207	BH207	BH207	BH207	BH208
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	16.00 - 17.00	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
		Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
		SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
		Lab Sample No.(s)	19259903	19259889	19259891	19259893	19259896	19259904
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	113	103	117	147	110	102
			♦	2	♦	♦	♦	♦
Toluene-d8**	%	TM116	96.1	95.9	98.3	98	99.1	95.9
			♦	2	♦	♦	♦	♦
4-Bromofluorobenzene**	%	TM116	87.9	94.3	98.6	105	102	85.5
			♦	2	♦	♦	♦	♦
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
			♦	2	♦	♦	♦	♦
Benzene	<9 µg/kg	TM116	<180	<180	<180	<180	<180	<180
			♦	2	♦	♦	♦	♦
Toluene	<7 µg/kg	TM116	<140	<140	<140	<140	<140	<140
			♦	2	♦	♦	♦	♦
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<80	<80	<80
			♦	2	♦	♦	♦	♦
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
			♦	2	♦	♦	♦	♦
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200
			♦	2	♦	♦	♦	♦
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
			♦	2	♦	♦	♦	♦
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<800	<800	<800
			♦	2	♦	♦	♦	♦



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH209	BH209	BH209	BH209	BH209	BH209	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	
aq	Aqueous / settled sample.		30/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	
diss.filt	Dissolved / filtered sample.		02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	
tot.unfilt	Total / unfiltered sample.		190202-56	190202-56	190202-56	190202-56	190202-56	190202-56	
*	Subcontracted - refer to subcontractor report for accreditation status.		19262367	19262370	19262381	19262383	19262385	19262387	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%		TM116	128 @	115 ♦	116 ♦	105 ♦	110 ♦	110 ♦
Toluene-d8**	%	TM116	93.9 @	94.8 ♦	95.4 ♦	99.5 ♦	91.6 ♦	99.5 ♦	
4-Bromofluorobenzene**	%	TM116	86.5 @	77.9 ♦	89.1 ♦	101 ♦	74.8 ♦	102 ♦	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @	<200 ♦	<200 ♦	<2000 ♦	<200 ♦	<2000 ♦	
Benzene	<9 µg/kg	TM116	<180 @	<180 ♦	<180 ♦	<1800 ♦	<180 ♦	<1800 ♦	
Toluene	<7 µg/kg	TM116	<140 @	<140 ♦	<140 ♦	<1400 ♦	<140 ♦	<1400 ♦	
Ethylbenzene	<4 µg/kg	TM116	<80 @	<80 ♦	<80 ♦	<800 ♦	<80 ♦	<800 ♦	
p/m-Xylene	<10 µg/kg	TM116	<200 @	<200 ♦	<200 ♦	<2000 ♦	<200 ♦	<2000 ♦	
o-Xylene	<10 µg/kg	TM116	<200 @	<200 ♦	<200 ♦	<2000 ♦	<200 ♦	<2000 ♦	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 ♦	<0.4 ♦	<4 ♦	<0.4 ♦	<4 ♦	
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 ♦	<800 ♦	<8000 ♦	<800 ♦	<8000 ♦	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH209	BH209	BH209	BH209	BH209	BH209	BH220
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50	
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	
aq	Aqueous / settled sample.		31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019	30/01/2019	
diss.filt	Dissolved / filtered sample.		02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	
tot.unfilt	Total / unfiltered sample.		190202-56	190202-56	190202-56	190202-56	190202-56	190202-56	
+	Subcontracted - refer to subcontractor report for accreditation status.		19262372	19262373	19262375	19262376	19262379	19262342	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM116	123	114	117	118	106	118	
Toluene-d8**	%	TM116	95.7	92.8	99.8	101	96.6	99	
4-Bromofluorobenzene**	%	TM116	96.5	88.3	99.2	118	96.1	92.7	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
Benzene	<9 µg/kg	TM116	<180	<180	<180	<180	<180	<180	
Toluene	<7 µg/kg	TM116	<140	<140	<140	<140	<140	<140	
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<80	<80	<80	
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<800	<800	<800	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH220
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
aq	Aqueous / settled sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
diss.filt	Dissolved / filtered sample.		02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
tot.unfilt	Total / unfiltered sample.		190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
+	Subcontracted - refer to subcontractor report for accreditation status.		19262343	19262344	19262355	19262358	19262359	19262363
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	118 @	135 @	109 @	107 2	114 @	108 @
Toluene-d8**	%	TM116	97.6 @	94.8 @	98 @	90.1 2	94.9 @	95.5 @
4-Bromofluorobenzene**	%	TM116	96.5 @	102 @	95.9 @	72.6 2	80.5 @	81.6 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 2	<200 @	<200 @
Benzene	<9 µg/kg	TM116	<180 @	<180 @	<180 @	<180 2	<180 @	<180 @
Toluene	<7 µg/kg	TM116	<140 @	<140 @	<140 @	<140 2	<140 @	<140 @
Ethylbenzene	<4 µg/kg	TM116	<80 @	<80 @	<80 @	<80 2	<80 @	<80 @
p/m-Xylene	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 2	<200 @	<200 @
o-Xylene	<10 µg/kg	TM116	<200 @	<200 @	<200 @	<200 2	<200 @	<200 @
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	<0.4 @	<0.4 2	<0.4 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	<800 @	<800 2	<800 @	<800 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH220	BH220	BH220	BH220	BH220	BH221
#	ISO17025 accredited.	Depth (m)	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.00	0.00 - 0.50
M	mCERTS accredited.	Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)
aq	Aqueous / settled sample.	Date Sampled	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	31/01/2019
diss.filt	Dissolved / filtered sample.	Date Received	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019
tot.unfilt	Total / unfiltered sample.	SDG Ref	190202-56	190202-56	190202-56	190202-56	190202-56	190202-56
*	Subcontracted - refer to subcontractor report for accreditation status.	Lab Sample No.(s)	19262345	19262348	19262350	19262351	19262353	19259932
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116						106
Toluene-d8**	%	TM116						95.9
4-Bromofluorobenzene**	%	TM116						91.8
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116						<200
Benzene	<9 µg/kg	TM116						<180
Toluene	<7 µg/kg	TM116						<140
Ethylbenzene	<4 µg/kg	TM116						<80
p/m-Xylene	<10 µg/kg	TM116						<200
o-Xylene	<10 µg/kg	TM116						<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116						<0.4
Sum of BTEX	<40 µg/kg	TM116						<800
Dibromofluoromethane**	%	TM116	130	124	118	108	117	
Toluene-d8**	%	TM116	98.7	97.9	99.9	98.5	97.9	
4-Bromofluorobenzene**	%	TM116	99.2	104	101	94.6	101	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<200	<200	
Benzene	<9 µg/kg	TM116	<180	<180	<180	<180	<180	
Toluene	<7 µg/kg	TM116	<140	<140	<140	<140	<140	
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<80	<80	
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.4	<0.4	
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<800	<800	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH221	BH221	BH221	BH221	BH221	BH221	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	
M	mCERTS accredited.		Soil/Solid (S)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	
dis.filt	Dissolved / filtered sample.		02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	02/02/2019	
tot.unfilt	Total / unfiltered sample.		190202-56	190202-56	190202-56	190202-56	190202-56	190202-56	
*	Subcontracted - refer to subcontractor report for accreditation status.		19262322	19262337	19262339	19262340	19262324	19262326	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%		TM116	123 @				127 @	128 @
Toluene-d8**	%	TM116	99.7 @				95.5 @	95 @	
4-Bromofluorobenzene**	%	TM116	98.4 @				97.8 @	103 @	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @				<200 @	<200 @	
Benzene	<9 µg/kg	TM116	<180 @				<180 @	<180 @	
Toluene	<7 µg/kg	TM116	<140 @				<140 @	<140 @	
Ethylbenzene	<4 µg/kg	TM116	<80 @				<80 @	<80 @	
p/m-Xylene	<10 µg/kg	TM116	<200 @				<200 @	<200 @	
o-Xylene	<10 µg/kg	TM116	<200 @				<200 @	<200 @	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @				<0.4 @	<0.4 @	
Sum of BTEX	<40 µg/kg	TM116	<800 @				<800 @	<800 @	
Dibromofluoromethane**	%	TM116		106 @	104 @	104 @			
Toluene-d8**	%	TM116		94.3 @	93.6 @	95.4 @			
4-Bromofluorobenzene**	%	TM116		78.1 @	77.1 @	86.2 @			
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<200 @	<200 @	<200 @			
Benzene	<9 µg/kg	TM116		<180 @	<180 @	<180 @			
Toluene	<7 µg/kg	TM116		<140 @	<140 @	<140 @			
Ethylbenzene	<4 µg/kg	TM116		<80 @	<80 @	<80 @			
p/m-Xylene	<10 µg/kg	TM116		<200 @	<200 @	<200 @			
o-Xylene	<10 µg/kg	TM116		<200 @	<200 @	<200 @			
Sum of Detected Xylenes	<0.02 mg/kg	TM116		<0.4 @	<0.4 @	<0.4 @			
Sum of BTEX	<40 µg/kg	TM116		<800 @	<800 @	<800 @			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
15/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
18/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
18/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH206 NS Z 15.00 - 16.00 SOLID 31/01/2019 00:00:00 14/02/2019 08:57:38 190202-56 19,259,879 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH206 NS Z 15.00 - 16.00 SOLID 31/01/2019 00:00:00 14/02/2019 08:57:38 190202-56 19,259,879 TM048	18/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH206 NS Z 3.00 - 4.00 SOLID 31/01/2019 00:00:00 14/02/2019 11:03:34 190202-56 19,259,864 TM048	18/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH206 NS Z 4.00 - 5.00 SOLID 31/01/2019 00:00:00 14/02/2019 11:05:03 190202-56 19,259,865 TM048	18/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH206 NS Z 7.00 - 8.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:29:54 190202-56 19,259,870 TM048	09/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH206 NS Z 9.00 - 10.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:31:52 190202-56 19,259,872 TM048	09/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 0.00 - 0.50 SOLID 31/01/2019 00:00:00 07/02/2019 12:50:20 190202-56 19,259,884 TM048	08/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 0.50 - 1.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:47:13 190202-56 19,259,886 TM048	08/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 1.00 - 2.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:43:52 190202-56 19,259,887 TM048	08/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 11.00 - 12.00 SOLID 31/01/2019 00:00:00 14/02/2019 14:17:12 190202-56 19,259,898 TM048	15/02/2019	Renata Bozhkov	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 12.00 - 13.00 SOLID 31/01/2019 00:00:00 14/02/2019 08:29:26 190202-56 19,259,899 TM048	15/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 13.00 - 14.00 SOLID 31/01/2019 00:00:00 08/02/2019 14:31:34 190202-56 19,259,900 TM048	18/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 15.00 - 16.00 SOLID 31/01/2019 00:00:00 08/02/2019 14:34:25 190202-56 19,259,902 TM048	18/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 16.00 - 17.00 SOLID 31/01/2019 00:00:00 14/02/2019 14:18:59 190202-56 19,259,903 TM048	17/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 2.00 - 3.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:45:31 190202-56 19,259,889 TM048	08/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 4.00 - 5.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:39:43 190202-56 19,259,891 TM048	08/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 6.00 - 7.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:28:01 190202-56 19,259,893 TM048	09/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH207 NS Z 9.00 - 10.00 SOLID 31/01/2019 00:00:00 14/02/2019 08:25:35 190202-56 19,259,896 TM048	17/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 0.00 - 0.50 SOLID 31/01/2019 00:00:00 07/02/2019 12:51:49 190202-56 19,259,904 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 0.50 - 1.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:48:50 190202-56 19,259,905 TM048	08/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 1.00 - 2.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:33:34 190202-56 19,259,906 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 10.00 - 11.00 SOLID 31/01/2019 00:00:00 08/02/2019 14:36:37 190202-56 19,259,919 TM048	18/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 11.00 - 12.00 SOLID 31/01/2019 00:00:00 14/02/2019 08:32:22 190202-56 19,259,920 TM048	15/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 13.00 - 14.00 SOLID 31/01/2019 00:00:00 08/02/2019 15:00:25 190202-56 19,259,923 TM048	18/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 14.00 - 15.00 SOLID 31/01/2019 00:00:00 14/02/2019 14:20:17 190202-56 19,259,924 TM048	15/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 15.00 - 16.00 SOLID 31/01/2019 00:00:00 14/02/2019 08:23:58 190202-56 19,259,926 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 2.00 - 3.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:37:59 190202-56 19,259,907 TM048	08/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 3.00 - 4.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:36:33 190202-56 19,259,909 TM048	09/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 4.00 - 5.00 SOLID 31/01/2019 00:00:00 07/02/2019 12:34:52 190202-56 19,259,911 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH208 NS Z 7.00 - 8.00 SOLID 31/01/2019 00:00:00 14/02/2019 08:34:14 190202-56 19,259,916 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 0.00 - 0.50 MISC_SOLID 30/01/2019 00:00:00 13/02/2019 20:54:37 190202-56 19,262,365 TM048	15/02/2019	James Richards	Fibre bundle in soil	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 0.00 - 1.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 14:56:43 190202-56 19,262,367 TM048	15/02/2019	James Richards	Fibre bundles in soil	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 0.50 - 1.00 MISC_SOLID 31/01/2019 00:00:00 14/02/2019 14:57:52 190202-56 19,262,370 TM048	17/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 1.00 - 2.00 MISC_SOLID 31/01/2019 00:00:00 07/02/2019 12:27:03 190202-56 19,262,381 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 13.00 - 14.00 MISC_SOLID 31/01/2019 00:00:00 07/02/2019 12:30:41 190202-56 19,262,383 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 14.00 - 15.00 MISC_SOLID 31/01/2019 00:00:00 07/02/2019 12:40:08 190202-56 19,262,385 TM048	08/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 16.00 - 17.00 MISC_SOLID 31/01/2019 00:00:00 14/02/2019 14:54:42 190202-56 19,262,387 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 16.00 - 17.00 MISC_SOLID 31/01/2019 00:00:00 14/02/2019 15:00:14 190202-56 19,262,372 TM048	15/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 2.00 - 3.00 MISC_SOLID 31/01/2019 00:00:00 14/02/2019 15:07:06 190202-56 19,262,373 TM048	18/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 3.00 - 4.00 MISC_SOLID 31/01/2019 00:00:00 13/02/2019 21:01:28 190202-56 19,262,375 TM048	15/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 5.00 - 6.00 MISC_SOLID 31/01/2019 00:00:00 13/02/2019 21:08:08 190202-56 19,262,376 TM048	15/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 9.00 - 10.00 MISC_SOLID 31/01/2019 00:00:00 13/02/2019 21:12:43 190202-56 19,262,379 TM048	15/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 0.00 - 0.50 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:03:49 190202-56 19,262,342 TM048	08/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 0.00 - 1.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:06:32 190202-56 19,262,343 TM048	08/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 1.00 - 2.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:12:28 190202-56 19,262,344 TM048	09/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 11.00 - 12.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:19:24 190202-56 19,262,355 TM048	08/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 13.00 - 14.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:23:50 190202-56 19,262,358 TM048	8/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 14.00 - 15.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:21:38 190202-56 19,262,359 TM048	08/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 16.00 - 17.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 14:48:26 190202-56 19,262,363 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 2.00 - 3.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:13:43 190202-56 19,262,345 TM048	08/02/2019	Lucy Caroe	Soil containing loose fibres and ACM debris	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 4.00 - 5.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 15:05:09 190202-56 19,262,348 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 6.00 - 7.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 11:21:37 190202-56 19,262,350 TM048	15/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 7.00 - 8.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 11:20:27 190202-56 19,262,351 TM048	15/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 9.00 - 10.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 14:36:06 190202-56 19,262,353 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 0.00 - 0.50 SOLID 31/01/2019 00:00:00 13/02/2019 20:51:54 190202-56 19,259,932 TM048	15/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 0.00 - 2.00 SOLID 30/01/2019 00:00:00 13/02/2019 20:53:25 190202-56 19,262,322 TM048	15/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 1.00 - 2.00 MISC_SOLID 30/01/2019 00:00:00 07/02/2019 12:16:55 190202-56 19,262,337 TM048	08/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 14.00 - 15.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 14:51:01 190202-56 19,262,339 TM048	15/02/2019	Renata Bozhkov	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 15.00 - 16.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 14:52:53 190202-56 19,262,340 TM048	17/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 2.00 - 3.00 SOLID 30/01/2019 00:00:00 13/02/2019 20:55:36 190202-56 19,262,324 TM048	15/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 3.00 - 4.00 SOLID 30/01/2019 00:00:00 13/02/2019 20:59:04 190202-56 19,262,326 TM048	18/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 4.00 - 5.00 SOLID 30/01/2019 00:00:00 13/02/2019 20:57:37 190202-56 19,262,328 TM048	18/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 6.00 - 7.00 SOLID 30/01/2019 00:00:00 14/02/2019 11:23:03 190202-56 19,262,331 TM048	15/02/2019	Renata Bozhkov	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH221 NS Z 8.00 - 9.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 11:24:27 190202-56 19,262,333 TM048	18/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected

Asbestos Quantification - Full



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend

ISO17025 accredited.
 * mCERTS accredited.
 Subcontracted test.
 (F) Trigger breach confirmed
 1-5	@ Sample deviation (see appendix)

Results Legend		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 0.00 - 0.50 MISC_SOLID 30/01/2019 00:00:00 21/02/2019 06:37:50 190202-56 19,262,365 TM304	None	N/A	<0.001	<0.001	<0.001
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH209 NS Z 0.50 - 1.00 MISC_SOLID 30/01/2019 00:00:00 21/02/2019 06:41:35 190202-56 19,262,367 TM304	None	N/A	0.0092	<0.001	0.0094
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH220 NS Z 2.00 - 3.00 MISC_SOLID 30/01/2019 00:00:00 14/02/2019 17:22:29 190202-56 19,262,345 TM304	None	N/A	0.0041	<0.001	0.0041



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259861
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.31
Loss on Ignition (%)	3.40
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.0886
ANC to pH 4 (mol/kg)	0.804

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00214	<0.0005	0.0214	<0.005	0.5	2	25
Barium	0.0161	<0.0002	0.161	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00252	<0.0003	0.0252	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0173	<0.003	0.173	<0.03	0.5	10	30
Nickel	0.000958	<0.0004	0.00958	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00159	<0.001	0.0159	<0.01	0.06	0.7	5
Selenium	0.00179	<0.001	0.0179	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	13.7	<2	137	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	63.2	<2	632	<20	1000	20000	50000
Total Dissolved Solids	211	<5	2110	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.72	<3	47.2	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.89
Conductivity (µS/cm)	277
Temperature (°C)	17.00
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259861
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.31
Loss on Ignition (%)	3.40
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.0886
ANC to pH 4 (mol/kg)	0.804

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.89
Conductivity (µS/cm)	277
Temperature (°C)	17.00
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259862
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.40
Loss on Ignition (%)	5.33
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	16.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.80
ANC to pH 6 (mol/kg)	0.0552
ANC to pH 4 (mol/kg)	0.505

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00595	<0.0005	0.0595	<0.005	0.5	2	25
Barium	0.00629	<0.0002	0.0629	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0459	<0.003	0.459	<0.03	0.5	10	30
Nickel	0.00102	<0.0004	0.0102	<0.004	0.4	10	40
Lead	0.000437	<0.0002	0.00437	<0.002	0.5	10	50
Antimony	0.00397	<0.001	0.0397	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00192	<0.001	0.0192	<0.01	4	50	200
Chloride	20.1	<2	201	<20	800	15000	25000
Fluoride	0.58	<0.5	5.8	<5	10	150	500
Sulphate (soluble)	51.2	<2	512	<20	1000	20000	50000
Total Dissolved Solids	214	<5	2140	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.4	<3	104	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	7.86
Conductivity (µS/cm)	283
Temperature (°C)	17.80
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259862
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.40
Loss on Ignition (%)	5.33
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	16.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.80
ANC to pH 6 (mol/kg)	0.0552
ANC to pH 4 (mol/kg)	0.505

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	7.86
Conductivity (µS/cm)	283
Temperature (°C)	17.80
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.127
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	40.8
Dry Matter Content (%)	71.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259863
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.58
Loss on Ignition (%)	6.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	79.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.04
ANC to pH 6 (mol/kg)	0.0739
ANC to pH 4 (mol/kg)	0.694

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00404	<0.0005	0.0404	<0.005	0.5	2	25
Barium	0.00631	<0.0002	0.0631	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0299	<0.003	0.299	<0.03	0.5	10	30
Nickel	0.00108	<0.0004	0.0108	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00289	<0.001	0.0289	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00423	<0.001	0.0423	<0.01	4	50	200
Chloride	18.6	<2	186	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	43.8	<2	438	<20	1000	20000	50000
Total Dissolved Solids	199	<5	1990	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.3	<3	133	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.95
Conductivity (µS/cm)	262
Temperature (°C)	14.80
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.127
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	40.8
Dry Matter Content (%)	71.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259863
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.58
Loss on Ignition (%)	6.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	79.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.04
ANC to pH 6 (mol/kg)	0.0739
ANC to pH 4 (mol/kg)	0.694

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.95
Conductivity (µS/cm)	262
Temperature (°C)	14.80
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.123
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259864
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.10
Loss on Ignition (%)	6.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.33
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0543
ANC to pH 4 (mol/kg)	0.367

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00224	<0.0005	0.0224	<0.005	0.5	2	25
Barium	0.00924	<0.0002	0.0924	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000609	<0.0003	0.00609	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0262	<0.003	0.262	<0.03	0.5	10	30
Nickel	0.00134	<0.0004	0.0134	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00242	<0.001	0.0242	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00174	<0.001	0.0174	<0.01	4	50	200
Chloride	6.8	<2	68	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	86.8	<2	868	<20	1000	20000	50000
Total Dissolved Solids	271	<5	2710	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.9	<3	139	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.25
Conductivity (µS/cm)	334
Temperature (°C)	13.10
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.123	Natural Moisture Content (%)	37.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	73.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259864
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.10
Loss on Ignition (%)	6.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.33
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0543
ANC to pH 4 (mol/kg)	0.367

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.25
Conductivity (µS/cm)	334
Temperature (°C)	13.10
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259865
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.64
Loss on Ignition (%)	5.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.0685
ANC to pH 4 (mol/kg)	0.457

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00205	<0.0005	0.0205	<0.005	0.5	2	25
Barium	0.00517	<0.0002	0.0517	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00188	<0.0003	0.0188	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0351	<0.003	0.351	<0.03	0.5	10	30
Nickel	0.00111	<0.0004	0.0111	<0.004	0.4	10	40
Lead	0.000317	<0.0002	0.00317	<0.002	0.5	10	50
Antimony	0.00339	<0.001	0.0339	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00237	<0.001	0.0237	<0.01	4	50	200
Chloride	10.3	<2	103	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	27.8	<2	278	<20	1000	20000	50000
Total Dissolved Solids	183	<5	1830	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	12.9	<3	129	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.55
Conductivity (µS/cm)	235
Temperature (°C)	16.10
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259865
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.64
Loss on Ignition (%)	5.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.0685
ANC to pH 4 (mol/kg)	0.457

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.55
Conductivity (µS/cm)	235
Temperature (°C)	16.10
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.27
Dry Matter Content (%)	91.5

Case	
SDG	190202-56
Lab Sample Number(s)	19259870
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.460
Loss on Ignition (%)	1.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.83
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.61
ANC to pH 6 (mol/kg)	0.102
ANC to pH 4 (mol/kg)	0.484

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00126	<0.0005	0.0126	<0.005	0.5	2	25
Barium	0.00555	<0.0002	0.0555	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00655	<0.003	0.0655	<0.03	0.5	10	30
Nickel	0.000733	<0.0004	0.00733	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00236	<0.001	0.0236	<0.01	0.06	0.7	5
Selenium	0.0012	<0.001	0.012	<0.01	0.1	0.5	7
Zinc	0.00127	<0.001	0.0127	<0.01	4	50	200
Chloride	6	<2	60	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	38.2	<2	382	<20	1000	20000	50000
Total Dissolved Solids	147	<5	1470	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.06
Conductivity (µS/cm)	192
Temperature (°C)	17.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	9.27
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.5
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259870
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.460
Loss on Ignition (%)	1.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.83
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.61
ANC to pH 6 (mol/kg)	0.102
ANC to pH 4 (mol/kg)	0.484

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.06
Conductivity (µS/cm)	192
Temperature (°C)	17.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259872
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.277
Loss on Ignition (%)	0.822
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.29
ANC to pH 6 (mol/kg)	0.141
ANC to pH 4 (mol/kg)	0.619

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00104	<0.0005	0.0104	<0.005	0.5	2	25
Barium	0.00743	<0.0002	0.0743	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0012	<0.001	0.012	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00157	<0.001	0.0157	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	121	<2	1210	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	23	<2	230	<20	1000	20000	50000
Total Dissolved Solids	350	<5	3500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.87
Conductivity (µS/cm)	460
Temperature (°C)	18.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259872
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.277
Loss on Ignition (%)	0.822
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.29
ANC to pH 6 (mol/kg)	0.141
ANC to pH 4 (mol/kg)	0.619

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.87
Conductivity (µS/cm)	460
Temperature (°C)	18.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259874
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.632
Loss on Ignition (%)	1.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.63
ANC to pH 6 (mol/kg)	0.204
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0012	<0.0005	0.012	<0.005	0.5	2	25
Barium	0.0591	<0.0002	0.591	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0011	<0.0003	0.011	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0153	<0.003	0.153	<0.03	0.5	10	30
Nickel	0.0009	<0.0004	0.009	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00366	<0.001	0.0366	<0.01	0.06	0.7	5
Selenium	0.029	<0.001	0.29	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	257	<4	2570	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.1	<2	541	<20	1000	20000	50000
Total Dissolved Solids	757	<5	7570	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.51
Conductivity (µS/cm)	983
Temperature (°C)	18.40
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259874
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.632
Loss on Ignition (%)	1.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.63
ANC to pH 6 (mol/kg)	0.204
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.51
Conductivity (µS/cm)	983
Temperature (°C)	18.40
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.72
Dry Matter Content (%)	93.7

Case	
SDG	190202-56
Lab Sample Number(s)	19259876
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.732
Loss on Ignition (%)	1.98
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	23.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.54
ANC to pH 6 (mol/kg)	0.240
ANC to pH 4 (mol/kg)	1.43

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000694	<0.0005	0.00694	<0.005	0.5	2	25
Barium	0.0418	<0.0002	0.418	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000707	<0.0003	0.00707	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0281	<0.003	0.281	<0.03	0.5	10	30
Nickel	0.000765	<0.0004	0.00765	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00284	<0.001	0.0284	<0.01	0.06	0.7	5
Selenium	0.0367	<0.001	0.367	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	158	<2	1580	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.1	<2	541	<20	1000	20000	50000
Total Dissolved Solids	460	<5	4600	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.94
Conductivity (µS/cm)	597
Temperature (°C)	16.40
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.096	Natural Moisture Content (%)	6.72
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.7
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259876
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.732
Loss on Ignition (%)	1.98
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	23.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.54
ANC to pH 6 (mol/kg)	0.240
ANC to pH 4 (mol/kg)	1.43

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.94
Conductivity (µS/cm)	597
Temperature (°C)	16.40
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190202-56
Lab Sample Number(s)	19259878
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.650
Loss on Ignition (%)	1.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	80.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.43
ANC to pH 6 (mol/kg)	0.246
ANC to pH 4 (mol/kg)	1.13

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000662	<0.0005	0.00662	<0.005	0.5	2	25
Barium	0.0397	<0.0002	0.397	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00131	<0.0003	0.0131	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0214	<0.003	0.214	<0.03	0.5	10	30
Nickel	0.00106	<0.0004	0.0106	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00249	<0.001	0.0249	<0.01	0.06	0.7	5
Selenium	0.0281	<0.001	0.281	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	178	<2	1780	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	52.6	<2	526	<20	1000	20000	50000
Total Dissolved Solids	495	<5	4950	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.84
Conductivity (µS/cm)	644
Temperature (°C)	10.70
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.93
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.8
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259878
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.650
Loss on Ignition (%)	1.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	80.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.43
ANC to pH 6 (mol/kg)	0.246
ANC to pH 4 (mol/kg)	1.13

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.84
Conductivity (µS/cm)	644
Temperature (°C)	10.70
Volume Leachant (Litres)	0.892

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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.53
Dry Matter Content (%)	91.3

Case	
SDG	190202-56
Lab Sample Number(s)	19259879
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.806
Loss on Ignition (%)	1.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.62
ANC to pH 6 (mol/kg)	0.131
ANC to pH 4 (mol/kg)	1.25

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000661	<0.0005	0.00661	<0.005	0.5	2	25
Barium	0.0466	<0.0002	0.466	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00153	<0.0003	0.0153	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0221	<0.003	0.221	<0.03	0.5	10	30
Nickel	0.000954	<0.0004	0.00954	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00272	<0.001	0.0272	<0.01	0.06	0.7	5
Selenium	0.0278	<0.001	0.278	<0.01	0.1	0.5	7
Zinc	0.0127	<0.001	0.127	<0.01	4	50	200
Chloride	151	<2	1510	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	48	<2	480	<20	1000	20000	50000
Total Dissolved Solids	420	<5	4200	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	566
Temperature (°C)	15.80
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.53
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.3
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259879
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH206
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.806
Loss on Ignition (%)	1.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.62
ANC to pH 6 (mol/kg)	0.131
ANC to pH 4 (mol/kg)	1.25

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	566
Temperature (°C)	15.80
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.2
Dry Matter Content (%)	90.8

Case	
SDG	190202-56
Lab Sample Number(s)	19259884
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.13
Loss on Ignition (%)	3.17
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.105
Mineral Oil (mg/kg)	13.6
PAH Sum of 17 (mg/kg)	40.3
pH (pH Units)	8.36
ANC to pH 6 (mol/kg)	0.308
ANC to pH 4 (mol/kg)	0.778

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0019	<0.0005	0.019	<0.005	0.5	2	25
Barium	0.031	<0.0002	0.31	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00988	<0.001	0.0988	<0.01	0.5	10	70
Copper	0.0138	<0.0003	0.138	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0124	<0.003	0.124	<0.03	0.5	10	30
Nickel	0.0018	<0.0004	0.018	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00354	<0.001	0.0354	<0.01	0.06	0.7	5
Selenium	0.00817	<0.001	0.0817	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	55.9	<2	559	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	74.6	<2	746	<20	1000	20000	50000
Total Dissolved Solids	635	<5	6350	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.19	<3	41.9	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	11.35
Conductivity (µS/cm)	850
Temperature (°C)	16.50
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.2
Dry Matter Content (%)	90.8

Case	
SDG	190202-56
Lab Sample Number(s)	19259884
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.13
Loss on Ignition (%)	3.17
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.105
Mineral Oil (mg/kg)	13.6
PAH Sum of 17 (mg/kg)	40.3
pH (pH Units)	8.36
ANC to pH 6 (mol/kg)	0.308
ANC to pH 4 (mol/kg)	0.778

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	11.35
Conductivity (µS/cm)	850
Temperature (°C)	16.50
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.4
Dry Matter Content (%)	87.4

Case	
SDG	190202-56
Lab Sample Number(s)	19259886
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.20
Loss on Ignition (%)	9.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	57.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.74
ANC to pH 6 (mol/kg)	0.0683
ANC to pH 4 (mol/kg)	0.549

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00879	<0.0005	0.0879	<0.005	0.5	2	25
Barium	0.0144	<0.0002	0.144	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00169	<0.001	0.0169	<0.01	0.5	10	70
Copper	0.0113	<0.0003	0.113	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0169	<0.003	0.169	<0.03	0.5	10	30
Nickel	0.00141	<0.0004	0.0141	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00472	<0.001	0.0472	<0.01	0.06	0.7	5
Selenium	0.0072	<0.001	0.072	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	41.9	<2	419	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	350	<2	3500	<20	1000	20000	50000
Total Dissolved Solids	591	<5	5910	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.18	<3	61.8	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	9.48
Conductivity (µS/cm)	791
Temperature (°C)	17.40
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	14.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	87.4
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259886
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.20
Loss on Ignition (%)	9.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	57.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.74
ANC to pH 6 (mol/kg)	0.0683
ANC to pH 4 (mol/kg)	0.549

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	9.48
Conductivity (µS/cm)	791
Temperature (°C)	17.40
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.123
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	36.0
Dry Matter Content (%)	73.6

Case	
SDG	190202-56
Lab Sample Number(s)	19259887
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.30
Loss on Ignition (%)	4.48
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.45
ANC to pH 6 (mol/kg)	0.0475
ANC to pH 4 (mol/kg)	0.497

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00343	<0.0005	0.0343	<0.005	0.5	2	25
Barium	0.0218	<0.0002	0.218	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00407	<0.0003	0.0407	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.021	<0.003	0.21	<0.03	0.5	10	30
Nickel	0.00194	<0.0004	0.0194	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00107	<0.001	0.0107	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00427	<0.001	0.0427	<0.01	4	50	200
Chloride	13	<2	130	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	1110	<10	11100	<100	1000	20000	50000
Total Dissolved Solids	1370	<5	13700	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.41	<3	54.1	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.58
Conductivity (µS/cm)	1810
Temperature (°C)	16.30
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.123
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	36.0
Dry Matter Content (%)	73.6

Case	
SDG	190202-56
Lab Sample Number(s)	19259887
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.30
Loss on Ignition (%)	4.48
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.45
ANC to pH 6 (mol/kg)	0.0475
ANC to pH 4 (mol/kg)	0.497

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.58
Conductivity (µS/cm)	1810
Temperature (°C)	16.30
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.129
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	42.9
Dry Matter Content (%)	70.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259889
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.19
Loss on Ignition (%)	5.04
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.6
PAH Sum of 17 (mg/kg)	11.9
pH (pH Units)	7.71
ANC to pH 6 (mol/kg)	0.0526
ANC to pH 4 (mol/kg)	0.507

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00269	<0.0005	0.0269	<0.005	0.5	2	25
Barium	0.0126	<0.0002	0.126	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00249	<0.0003	0.0249	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0302	<0.003	0.302	<0.03	0.5	10	30
Nickel	0.00153	<0.0004	0.0153	<0.004	0.4	10	40
Lead	0.000674	<0.0002	0.00674	<0.002	0.5	10	50
Antimony	0.00322	<0.001	0.0322	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00271	<0.001	0.0271	<0.01	4	50	200
Chloride	8	<2	80	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	264	<2	2640	<20	1000	20000	50000
Total Dissolved Solids	484	<5	4840	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.7	<3	117	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.41
Conductivity (µS/cm)	626
Temperature (°C)	17.20
Volume Leachant (Litres)	0.861

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.129
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	42.9
Dry Matter Content (%)	70.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259889
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.19
Loss on Ignition (%)	5.04
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.6
PAH Sum of 17 (mg/kg)	11.9
pH (pH Units)	7.71
ANC to pH 6 (mol/kg)	0.0526
ANC to pH 4 (mol/kg)	0.507

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.41
Conductivity (µS/cm)	626
Temperature (°C)	17.20
Volume Leachant (Litres)	0.861

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.124
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.1
Dry Matter Content (%)	72.4

Case	
SDG	190202-56
Lab Sample Number(s)	19259891
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.52
Loss on Ignition (%)	4.57
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.77
ANC to pH 6 (mol/kg)	0.0580
ANC to pH 4 (mol/kg)	0.321

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0032	<0.0005	0.032	<0.005	0.5	2	25
Barium	0.00757	<0.0002	0.0757	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0358	<0.003	0.358	<0.03	0.5	10	30
Nickel	0.000913	<0.0004	0.00913	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00346	<0.001	0.0346	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00107	<0.001	0.0107	<0.01	4	50	200
Chloride	12.5	<2	125	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	82.1	<2	821	<20	1000	20000	50000
Total Dissolved Solids	256	<5	2560	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.1	<3	101	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	8.03
Conductivity (µS/cm)	356
Temperature (°C)	17.10
Volume Leachant (Litres)	0.866

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.124
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.1
Dry Matter Content (%)	72.4

Case	
SDG	190202-56
Lab Sample Number(s)	19259891
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.52
Loss on Ignition (%)	4.57
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.77
ANC to pH 6 (mol/kg)	0.0580
ANC to pH 4 (mol/kg)	0.321

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	8.03
Conductivity (µS/cm)	356
Temperature (°C)	17.10
Volume Leachant (Litres)	0.866

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	30.4
Dry Matter Content (%)	76.7

Case	
SDG	190202-56
Lab Sample Number(s)	19259893
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.523
Loss on Ignition (%)	2.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.40
ANC to pH 6 (mol/kg)	0.297
ANC to pH 4 (mol/kg)	2.21

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00258	<0.0005	0.0258	<0.005	0.5	2	25
Barium	0.0632	<0.0002	0.632	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00135	<0.0003	0.0135	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0176	<0.003	0.176	<0.03	0.5	10	30
Nickel	0.00219	<0.0004	0.0219	<0.004	0.4	10	40
Lead	0.00631	<0.0002	0.0631	<0.002	0.5	10	50
Antimony	0.00636	<0.001	0.0636	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00337	<0.001	0.0337	<0.01	4	50	200
Chloride	26.8	<2	268	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	62.2	<2	622	<20	1000	20000	50000
Total Dissolved Solids	226	<5	2260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.21	<3	42.1	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	6.87
Conductivity (µS/cm)	307
Temperature (°C)	17.20
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	30.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.7
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259893
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.523
Loss on Ignition (%)	2.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.40
ANC to pH 6 (mol/kg)	0.297
ANC to pH 4 (mol/kg)	2.21

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	6.87
Conductivity (µS/cm)	307
Temperature (°C)	17.20
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.093
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	4.06
Dry Matter Content (%)	96.1

Case	
SDG	190202-56
Lab Sample Number(s)	19259896
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.320
Loss on Ignition (%)	2.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.40
ANC to pH 6 (mol/kg)	0.0561
ANC to pH 4 (mol/kg)	0.0993

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00135	<0.0005	0.0135	<0.005	0.5	2	25
Barium	0.00385	<0.0002	0.0385	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00121	<0.001	0.0121	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	66.7	<2	667	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	15.2	<2	152	<20	1000	20000	50000
Total Dissolved Solids	215	<5	2150	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.96
Conductivity (µS/cm)	286
Temperature (°C)	18.10
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.093
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	4.06
Dry Matter Content (%)	96.1

Case	
SDG	190202-56
Lab Sample Number(s)	19259896
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.320
Loss on Ignition (%)	2.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.40
ANC to pH 6 (mol/kg)	0.0561
ANC to pH 4 (mol/kg)	0.0993

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.96
Conductivity (µS/cm)	286
Temperature (°C)	18.10
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259898
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.707
Loss on Ignition (%)	1.79
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.87
ANC to pH 6 (mol/kg)	0.330
ANC to pH 4 (mol/kg)	1.22

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00137	<0.0005	0.0137	<0.005	0.5	2	25
Barium	0.0621	<0.0002	0.621	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000841	<0.0003	0.00841	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0107	<0.003	0.107	<0.03	0.5	10	30
Nickel	0.000601	<0.0004	0.00601	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00298	<0.001	0.0298	<0.01	0.06	0.7	5
Selenium	0.0306	<0.001	0.306	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	168	<2	1680	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	42.4	<2	424	<20	1000	20000	50000
Total Dissolved Solids	465	<5	4650	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.01
Conductivity (µS/cm)	624
Temperature (°C)	16.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259898
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.707
Loss on Ignition (%)	1.79
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.87
ANC to pH 6 (mol/kg)	0.330
ANC to pH 4 (mol/kg)	1.22

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.01
Conductivity (µS/cm)	624
Temperature (°C)	16.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259899
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.611
Loss on Ignition (%)	3.45
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.62
ANC to pH 6 (mol/kg)	0.188
ANC to pH 4 (mol/kg)	0.878

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000815	<0.0005	0.00815	<0.005	0.5	2	25
Barium	0.0565	<0.0002	0.565	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	0.0000151	<0.00001	0.000151	<0.0001	0.01	0.2	2
Molybdenum	0.0163	<0.003	0.163	<0.03	0.5	10	30
Nickel	0.000919	<0.0004	0.00919	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00306	<0.001	0.0306	<0.01	0.06	0.7	5
Selenium	0.0331	<0.001	0.331	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	202	<4	2020	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.8	<2	548	<20	1000	20000	50000
Total Dissolved Solids	613	<5	6130	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.82
Conductivity (µS/cm)	783
Temperature (°C)	17.80
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259899
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.611
Loss on Ignition (%)	3.45
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.62
ANC to pH 6 (mol/kg)	0.188
ANC to pH 4 (mol/kg)	0.878

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.82
Conductivity (µS/cm)	783
Temperature (°C)	17.80
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.34
Dry Matter Content (%)	92.3

Case	
SDG	190202-56
Lab Sample Number(s)	19259900
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.67
Loss on Ignition (%)	1.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.169
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000601	<0.0005	0.00601	<0.005	0.5	2	25
Barium	0.046	<0.0002	0.46	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0247	<0.003	0.247	<0.03	0.5	10	30
Nickel	0.00112	<0.0004	0.0112	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00289	<0.001	0.0289	<0.01	0.06	0.7	5
Selenium	0.034	<0.001	0.34	<0.01	0.1	0.5	7
Zinc	0.00239	<0.001	0.0239	<0.01	4	50	200
Chloride	173	<2	1730	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	65.4	<2	654	<20	1000	20000	50000
Total Dissolved Solids	533	<5	5330	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.65
Conductivity (µS/cm)	676
Temperature (°C)	17.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.34
Dry Matter Content (%)	92.3

Case	
SDG	190202-56
Lab Sample Number(s)	19259900
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.67
Loss on Ignition (%)	1.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.169
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.65
Conductivity (µS/cm)	676
Temperature (°C)	17.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259902
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.779
Loss on Ignition (%)	2.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.66
ANC to pH 6 (mol/kg)	0.124
ANC to pH 4 (mol/kg)	0.493

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00113	<0.0005	0.0113	<0.005	0.5	2	25
Barium	0.0495	<0.0002	0.495	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0132	<0.003	0.132	<0.03	0.5	10	30
Nickel	0.000778	<0.0004	0.00778	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00327	<0.001	0.0327	<0.01	0.06	0.7	5
Selenium	0.0239	<0.001	0.239	<0.01	0.1	0.5	7
Zinc	0.00115	<0.001	0.0115	<0.01	4	50	200
Chloride	187	<2	1870	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	35.6	<2	356	<20	1000	20000	50000
Total Dissolved Solids	509	<5	5090	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.75
Conductivity (µS/cm)	677
Temperature (°C)	18.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259902
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.779
Loss on Ignition (%)	2.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.66
ANC to pH 6 (mol/kg)	0.124
ANC to pH 4 (mol/kg)	0.493

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.75
Conductivity (µS/cm)	677
Temperature (°C)	18.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.6
Dry Matter Content (%)	90.4

Case	
SDG	190202-56
Lab Sample Number(s)	19259903
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.613
Loss on Ignition (%)	1.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.78
ANC to pH 6 (mol/kg)	0.146
ANC to pH 4 (mol/kg)	0.800

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00105	<0.0005	0.0105	<0.005	0.5	2	25
Barium	0.0483	<0.0002	0.483	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0006	<0.0003	0.006	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00666	<0.003	0.0666	<0.03	0.5	10	30
Nickel	0.000652	<0.0004	0.00652	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00196	<0.001	0.0196	<0.01	0.06	0.7	5
Selenium	0.0135	<0.001	0.135	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	187	<2	1870	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.7	<2	377	<20	1000	20000	50000
Total Dissolved Solids	518	<5	5180	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.04
Conductivity (µS/cm)	684
Temperature (°C)	17.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.6
Dry Matter Content (%)	90.4

Case	
SDG	190202-56
Lab Sample Number(s)	19259903
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH207
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.613
Loss on Ignition (%)	1.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.78
ANC to pH 6 (mol/kg)	0.146
ANC to pH 4 (mol/kg)	0.800

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.04
Conductivity (µS/cm)	684
Temperature (°C)	17.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	27.9
Dry Matter Content (%)	78.2

Case	
SDG	190202-56
Lab Sample Number(s)	19259904
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.95
Loss on Ignition (%)	5.41
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.8
PAH Sum of 17 (mg/kg)	111
pH (pH Units)	9.45
ANC to pH 6 (mol/kg)	0.0802
ANC to pH 4 (mol/kg)	0.325

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0188	<0.0005	0.188	<0.005	0.5	2	25
Barium	0.00838	<0.0002	0.0838	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00117	<0.001	0.0117	<0.01	0.5	10	70
Copper	0.0159	<0.0003	0.159	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0567	<0.003	0.567	<0.03	0.5	10	30
Nickel	0.002	<0.0004	0.02	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0103	<0.001	0.103	<0.01	0.06	0.7	5
Selenium	0.0114	<0.001	0.114	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	36.7	<2	367	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	340	<2	3400	<20	1000	20000	50000
Total Dissolved Solids	580	<5	5800	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.97	<3	79.7	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	9.89
Conductivity (µS/cm)	768
Temperature (°C)	17.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.115	Natural Moisture Content (%)	27.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78.2
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259904
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.95
Loss on Ignition (%)	5.41
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.8
PAH Sum of 17 (mg/kg)	111
pH (pH Units)	9.45
ANC to pH 6 (mol/kg)	0.0802
ANC to pH 4 (mol/kg)	0.325

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	9.89
Conductivity (µS/cm)	768
Temperature (°C)	17.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.2
Dry Matter Content (%)	85.3

Case	
SDG	190202-56
Lab Sample Number(s)	19259905
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.716
Loss on Ignition (%)	1.98
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.81
PAH Sum of 17 (mg/kg)	14.3
pH (pH Units)	7.78
ANC to pH 6 (mol/kg)	0.126
ANC to pH 4 (mol/kg)	0.198

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0028	<0.0005	0.028	<0.005	0.5	2	25
Barium	0.00849	<0.0002	0.0849	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00804	<0.0003	0.0804	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.021	<0.003	0.21	<0.03	0.5	10	30
Nickel	0.00146	<0.0004	0.0146	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0024	<0.001	0.024	<0.01	0.06	0.7	5
Selenium	0.00119	<0.001	0.0119	<0.01	0.1	0.5	7
Zinc	0.00185	<0.001	0.0185	<0.01	4	50	200
Chloride	5.3	<2	53	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	252	<2	2520	<20	1000	20000	50000
Total Dissolved Solids	429	<5	4290	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.55	<3	55.5	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	9.02
Conductivity (µS/cm)	563
Temperature (°C)	17.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.2
Dry Matter Content (%)	85.3

Case	
SDG	190202-56
Lab Sample Number(s)	19259905
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.716
Loss on Ignition (%)	1.98
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.81
PAH Sum of 17 (mg/kg)	14.3
pH (pH Units)	7.78
ANC to pH 6 (mol/kg)	0.126
ANC to pH 4 (mol/kg)	0.198

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	9.02
Conductivity (µS/cm)	563
Temperature (°C)	17.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.4
Dry Matter Content (%)	83.8

Case	
SDG	190202-56
Lab Sample Number(s)	19259906
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.773
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.09
ANC to pH 6 (mol/kg)	0.0571
ANC to pH 4 (mol/kg)	0.240

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000694	<0.0005	0.00694	<0.005	0.5	2	25
Barium	0.00803	<0.0002	0.0803	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000326	<0.0003	0.00326	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000143	<0.00001	0.000143	<0.0001	0.01	0.2	2
Molybdenum	0.0101	<0.003	0.101	<0.03	0.5	10	30
Nickel	0.00143	<0.0004	0.0143	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0012	<0.001	0.012	<0.01	4	50	200
Chloride	2.1	<2	21	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	170	<2	1700	<20	1000	20000	50000
Total Dissolved Solids	306	<5	3060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.52	<3	45.2	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	408
Temperature (°C)	18.00
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.4
Dry Matter Content (%)	83.8

Case	
SDG	190202-56
Lab Sample Number(s)	19259906
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.773
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.09
ANC to pH 6 (mol/kg)	0.0571
ANC to pH 4 (mol/kg)	0.240

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	408
Temperature (°C)	18.00
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	24.2
Dry Matter Content (%)	80.5

Case	
SDG	190202-56
Lab Sample Number(s)	19259907
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.584
Loss on Ignition (%)	2.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.89
ANC to pH 6 (mol/kg)	0.0507
ANC to pH 4 (mol/kg)	0.217

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000789	<0.0005	0.00789	<0.005	0.5	2	25
Barium	0.00504	<0.0002	0.0504	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00346	<0.0003	0.0346	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.000018	<0.00001	0.00018	<0.0001	0.01	0.2	2
Molybdenum	0.0117	<0.003	0.117	<0.03	0.5	10	30
Nickel	0.00134	<0.0004	0.0134	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	3.5	<2	35	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	156	<2	1560	<20	1000	20000	50000
Total Dissolved Solids	300	<5	3000	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.1	<3	51	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.36
Conductivity (µS/cm)	393
Temperature (°C)	17.30
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	24.2
Dry Matter Content (%)	80.5

Case	
SDG	190202-56
Lab Sample Number(s)	19259907
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.584
Loss on Ignition (%)	2.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.89
ANC to pH 6 (mol/kg)	0.0507
ANC to pH 4 (mol/kg)	0.217

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.36
Conductivity (µS/cm)	393
Temperature (°C)	17.30
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.0
Dry Matter Content (%)	78.1

Case	
SDG	190202-56
Lab Sample Number(s)	19259909
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.23
Loss on Ignition (%)	2.14
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.68
ANC to pH 6 (mol/kg)	0.0526
ANC to pH 4 (mol/kg)	0.277

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00282	<0.0005	0.0282	<0.005	0.5	2	25
Barium	0.0147	<0.0002	0.147	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0253	<0.003	0.253	<0.03	0.5	10	30
Nickel	0.00164	<0.0004	0.0164	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00343	<0.001	0.0343	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0145	<0.001	0.145	<0.01	4	50	200
Chloride	3.6	<2	36	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	246	<2	2460	<20	1000	20000	50000
Total Dissolved Solids	461	<5	4610	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.17	<3	61.7	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.87
Conductivity (µS/cm)	616
Temperature (°C)	17.50
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.0
Dry Matter Content (%)	78.1

Case	
SDG	190202-56
Lab Sample Number(s)	19259909
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.23
Loss on Ignition (%)	2.14
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.68
ANC to pH 6 (mol/kg)	0.0526
ANC to pH 4 (mol/kg)	0.277

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.87
Conductivity (µS/cm)	616
Temperature (°C)	17.50
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	24.7
Dry Matter Content (%)	80.2

Case	
SDG	190202-56
Lab Sample Number(s)	19259911
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.43
Loss on Ignition (%)	5.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.90
ANC to pH 6 (mol/kg)	0.0337
ANC to pH 4 (mol/kg)	0.0749

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00184	<0.0005	0.0184	<0.005	0.5	2	25
Barium	0.0092	<0.0002	0.092	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0425	<0.003	0.425	<0.03	0.5	10	30
Nickel	0.00172	<0.0004	0.0172	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00641	<0.001	0.0641	<0.01	0.06	0.7	5
Selenium	0.00121	<0.001	0.0121	<0.01	0.1	0.5	7
Zinc	0.00362	<0.001	0.0362	<0.01	4	50	200
Chloride	11.4	<2	114	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	129	<2	1290	<20	1000	20000	50000
Total Dissolved Solids	319	<5	3190	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.93	<3	49.3	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	8.20
Conductivity (µS/cm)	409
Temperature (°C)	17.60
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	24.7
Dry Matter Content (%)	80.2

Case	
SDG	190202-56
Lab Sample Number(s)	19259911
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.43
Loss on Ignition (%)	5.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.90
ANC to pH 6 (mol/kg)	0.0337
ANC to pH 4 (mol/kg)	0.0749

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	8.20
Conductivity (µS/cm)	409
Temperature (°C)	17.60
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.37
Dry Matter Content (%)	94.9

Case	
SDG	190202-56
Lab Sample Number(s)	19259916
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.297
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.0568
ANC to pH 4 (mol/kg)	0.148

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00188	<0.0005	0.0188	<0.005	0.5	2	25
Barium	0.00479	<0.0002	0.0479	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000807	<0.0003	0.00807	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00289	<0.001	0.0289	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	13.3	<2	133	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	19.1	<2	191	<20	1000	20000	50000
Total Dissolved Solids	102	<5	1020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.01
Conductivity (µS/cm)	133
Temperature (°C)	18.40
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.37
Dry Matter Content (%)	94.9

Case	
SDG	190202-56
Lab Sample Number(s)	19259916
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.297
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.0568
ANC to pH 4 (mol/kg)	0.148

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.01
Conductivity (µS/cm)	133
Temperature (°C)	18.40
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.77
Dry Matter Content (%)	91.1

Case	
SDG	190202-56
Lab Sample Number(s)	19259919
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.309
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.36
ANC to pH 6 (mol/kg)	0.0554
ANC to pH 4 (mol/kg)	0.0781

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00138	<0.0005	0.0138	<0.005	0.5	2	25
Barium	0.0279	<0.0002	0.279	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0031	<0.003	0.031	<0.03	0.5	10	30
Nickel	0.000475	<0.0004	0.00475	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0011	<0.001	0.011	<0.01	0.06	0.7	5
Selenium	0.00349	<0.001	0.0349	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	156	<2	1560	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	26.6	<2	266	<20	1000	20000	50000
Total Dissolved Solids	461	<5	4610	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.29	<3	32.9	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	9.47
Conductivity (µS/cm)	599
Temperature (°C)	18.50
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.77
Dry Matter Content (%)	91.1

Case	
SDG	190202-56
Lab Sample Number(s)	19259919
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.309
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.36
ANC to pH 6 (mol/kg)	0.0554
ANC to pH 4 (mol/kg)	0.0781

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	9.47
Conductivity (µS/cm)	599
Temperature (°C)	18.50
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259920
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.537
Loss on Ignition (%)	3.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.229
ANC to pH 4 (mol/kg)	1.06

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000936	<0.0005	0.00936	<0.005	0.5	2	25
Barium	0.0819	<0.0002	0.819	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000205	<0.00001	0.000205	<0.0001	0.01	0.2	2
Molybdenum	0.0182	<0.003	0.182	<0.03	0.5	10	30
Nickel	0.000918	<0.0004	0.00918	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00357	<0.001	0.0357	<0.01	0.06	0.7	5
Selenium	0.0286	<0.001	0.286	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	204	<4	2040	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	52.8	<2	528	<20	1000	20000	50000
Total Dissolved Solids	627	<5	6270	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.86
Conductivity (µS/cm)	794
Temperature (°C)	18.00
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259920
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.537
Loss on Ignition (%)	3.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.229
ANC to pH 4 (mol/kg)	1.06

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.86
Conductivity (µS/cm)	794
Temperature (°C)	18.00
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.89
Dry Matter Content (%)	91.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259923
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.667
Loss on Ignition (%)	5.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.51
ANC to pH 6 (mol/kg)	0.216
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000648	<0.0005	0.00648	<0.005	0.5	2	25
Barium	0.0477	<0.0002	0.477	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00138	<0.0003	0.0138	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0233	<0.003	0.233	<0.03	0.5	10	30
Nickel	0.000961	<0.0004	0.00961	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00255	<0.001	0.0255	<0.01	0.06	0.7	5
Selenium	0.0422	<0.001	0.422	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	170	<2	1700	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	62.3	<2	623	<20	1000	20000	50000
Total Dissolved Solids	495	<5	4950	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.09	<3	30.9	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.17
Conductivity (µS/cm)	568
Temperature (°C)	12.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.89
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259923
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.667
Loss on Ignition (%)	5.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.51
ANC to pH 6 (mol/kg)	0.216
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.17
Conductivity (µS/cm)	568
Temperature (°C)	12.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.89
Dry Matter Content (%)	91.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259924
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.764
Loss on Ignition (%)	2.07
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.287
ANC to pH 4 (mol/kg)	1.58

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000586	<0.0005	0.00586	<0.005	0.5	2	25
Barium	0.0383	<0.0002	0.383	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00109	<0.0003	0.0109	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0245	<0.003	0.245	<0.03	0.5	10	30
Nickel	0.000967	<0.0004	0.00967	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00252	<0.001	0.0252	<0.01	0.06	0.7	5
Selenium	0.0428	<0.001	0.428	<0.01	0.1	0.5	7
Zinc	0.0011	<0.001	0.011	<0.01	4	50	200
Chloride	172	<2	1720	<20	800	15000	25000
Fluoride	0.503	<0.5	5.03	<5	10	150	500
Sulphate (soluble)	60.9	<2	609	<20	1000	20000	50000
Total Dissolved Solids	493	<5	4930	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.21	<3	32.1	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	649
Temperature (°C)	16.70
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.89
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259924
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.764
Loss on Ignition (%)	2.07
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.287
ANC to pH 4 (mol/kg)	1.58

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	649
Temperature (°C)	16.70
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.95
Dry Matter Content (%)	93.5

Case	
SDG	190202-56
Lab Sample Number(s)	19259926
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.732
Loss on Ignition (%)	2.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.32
ANC to pH 6 (mol/kg)	0.160
ANC to pH 4 (mol/kg)	0.667

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.04	<0.0002	0.4	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0261	<0.003	0.261	<0.03	0.5	10	30
Nickel	0.000908	<0.0004	0.00908	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0026	<0.001	0.026	<0.01	0.06	0.7	5
Selenium	0.0346	<0.001	0.346	<0.01	0.1	0.5	7
Zinc	0.00179	<0.001	0.0179	<0.01	4	50	200
Chloride	131	<2	1310	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.3	<2	563	<20	1000	20000	50000
Total Dissolved Solids	407	<5	4070	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	541
Temperature (°C)	18.00
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.95
Dry Matter Content (%)	93.5

Case	
SDG	190202-56
Lab Sample Number(s)	19259926
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH208
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.732
Loss on Ignition (%)	2.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.32
ANC to pH 6 (mol/kg)	0.160
ANC to pH 4 (mol/kg)	0.667

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	541
Temperature (°C)	18.00
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190202-56
Lab Sample Number(s)	19259932
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.45
Loss on Ignition (%)	7.94
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.64
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0353
ANC to pH 4 (mol/kg)	0.0725

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00421	<0.0005	0.0421	<0.005	0.5	2	25
Barium	0.00956	<0.0002	0.0956	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0355	<0.003	0.355	<0.03	0.5	10	30
Nickel	0.00176	<0.0004	0.0176	<0.004	0.4	10	40
Lead	0.000605	<0.0002	0.00605	<0.002	0.5	10	50
Antimony	0.00398	<0.001	0.0398	<0.01	0.06	0.7	5
Selenium	0.00131	<0.001	0.0131	<0.01	0.1	0.5	7
Zinc	0.00257	<0.001	0.0257	<0.01	4	50	200
Chloride	10.8	<2	108	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	59.8	<2	598	<20	1000	20000	50000
Total Dissolved Solids	167	<5	1670	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.9	<3	119	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.69
Conductivity (µS/cm)	210
Temperature (°C)	15.10
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.111	Natural Moisture Content (%)	23.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19259932
Sampled Date	31-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.45
Loss on Ignition (%)	7.94
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.64
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0353
ANC to pH 4 (mol/kg)	0.0725

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.69
Conductivity (µS/cm)	210
Temperature (°C)	15.10
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262322
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.35
Loss on Ignition (%)	3.84
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0475
ANC to pH 4 (mol/kg)	0.256

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000973	<0.0005	0.00973	<0.005	0.5	2	25
Barium	0.0062	<0.0002	0.062	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00142	<0.0003	0.0142	<0.003	2	50	100
Mercury Dissolved (CVAf)	0.0000133	<0.00001	0.000133	<0.0001	0.01	0.2	2
Molybdenum	0.02	<0.003	0.2	<0.03	0.5	10	30
Nickel	0.00138	<0.0004	0.0138	<0.004	0.4	10	40
Lead	0.000745	<0.0002	0.00745	<0.002	0.5	10	50
Antimony	0.00164	<0.001	0.0164	<0.01	0.06	0.7	5
Selenium	0.00112	<0.001	0.0112	<0.01	0.1	0.5	7
Zinc	0.00276	<0.001	0.0276	<0.01	4	50	200
Chloride	2.2	<2	22	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	95.5	<2	955	<20	1000	20000	50000
Total Dissolved Solids	250	<5	2500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.91	<3	59.1	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	6.43
Conductivity (µS/cm)	327
Temperature (°C)	18.50
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262322
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.35
Loss on Ignition (%)	3.84
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0475
ANC to pH 4 (mol/kg)	0.256

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	6.43
Conductivity (µS/cm)	327
Temperature (°C)	18.50
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262324
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.00
Loss on Ignition (%)	2.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.40
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.12
ANC to pH 6 (mol/kg)	0.0685
ANC to pH 4 (mol/kg)	0.354

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00137	<0.0005	0.0137	<0.005	0.5	2	25
Barium	0.00385	<0.0002	0.0385	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000576	<0.0003	0.00576	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0153	<0.003	0.153	<0.03	0.5	10	30
Nickel	0.00104	<0.0004	0.0104	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00186	<0.001	0.0186	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	2.7	<2	27	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.4	<2	564	<20	1000	20000	50000
Total Dissolved Solids	165	<5	1650	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.88	<3	48.8	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	211
Temperature (°C)	18.40
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19262324
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.00
Loss on Ignition (%)	2.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.40
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.12
ANC to pH 6 (mol/kg)	0.0685
ANC to pH 4 (mol/kg)	0.354

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	211
Temperature (°C)	18.40
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262326
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.996
Loss on Ignition (%)	2.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.48
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.83
ANC to pH 6 (mol/kg)	0.0469
ANC to pH 4 (mol/kg)	0.209

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00207	<0.0005	0.0207	<0.005	0.5	2	25
Barium	0.00788	<0.0002	0.0788	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000334	<0.0003	0.00334	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0315	<0.003	0.315	<0.03	0.5	10	30
Nickel	0.00115	<0.0004	0.0115	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00469	<0.001	0.0469	<0.01	0.06	0.7	5
Selenium	0.00104	<0.001	0.0104	<0.01	0.1	0.5	7
Zinc	0.00156	<0.001	0.0156	<0.01	4	50	200
Chloride	3.2	<2	32	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	77.2	<2	772	<20	1000	20000	50000
Total Dissolved Solids	221	<5	2210	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.25	<3	52.5	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	7.17
Conductivity (µS/cm)	279
Temperature (°C)	18.80
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.111	Natural Moisture Content (%)	23.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19262326
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.996
Loss on Ignition (%)	2.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.48
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.83
ANC to pH 6 (mol/kg)	0.0469
ANC to pH 4 (mol/kg)	0.209

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	7.17
Conductivity (µS/cm)	279
Temperature (°C)	18.80
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262328
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.05
Loss on Ignition (%)	3.78
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.83
ANC to pH 6 (mol/kg)	0.0459
ANC to pH 4 (mol/kg)	0.171

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0036	<0.0005	0.036	<0.005	0.5	2	25
Barium	0.00742	<0.0002	0.0742	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00254	<0.0003	0.0254	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0347	<0.003	0.347	<0.03	0.5	10	30
Nickel	0.00158	<0.0004	0.0158	<0.004	0.4	10	40
Lead	0.000843	<0.0002	0.00843	<0.002	0.5	10	50
Antimony	0.00592	<0.001	0.0592	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00379	<0.001	0.0379	<0.01	4	50	200
Chloride	5.8	<2	58	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	66.6	<2	666	<20	1000	20000	50000
Total Dissolved Solids	210	<5	2100	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7	<3	70	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.18
Conductivity (µS/cm)	263
Temperature (°C)	12.10
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19262328
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.05
Loss on Ignition (%)	3.78
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.83
ANC to pH 6 (mol/kg)	0.0459
ANC to pH 4 (mol/kg)	0.171

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	7.18
Conductivity (µS/cm)	263
Temperature (°C)	12.10
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.109
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262331
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.704
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.12
ANC to pH 6 (mol/kg)	0.0498
ANC to pH 4 (mol/kg)	0.188

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00235	<0.0005	0.0235	<0.005	0.5	2	25
Barium	0.00704	<0.0002	0.0704	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.029	<0.003	0.29	<0.03	0.5	10	30
Nickel	0.00164	<0.0004	0.0164	<0.004	0.4	10	40
Lead	0.000289	<0.0002	0.00289	<0.002	0.5	10	50
Antimony	0.00628	<0.001	0.0628	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0012	<0.001	0.012	<0.01	4	50	200
Chloride	6.7	<2	67	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	71.4	<2	714	<20	1000	20000	50000
Total Dissolved Solids	240	<5	2400	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.31	<3	73.1	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.35
Conductivity (µS/cm)	306
Temperature (°C)	18.50
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.109
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262331
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.704
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.12
ANC to pH 6 (mol/kg)	0.0498
ANC to pH 4 (mol/kg)	0.188

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	8.35
Conductivity (µS/cm)	306
Temperature (°C)	18.50
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262333
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.282
Loss on Ignition (%)	2.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.02
ANC to pH 6 (mol/kg)	0.0748
ANC to pH 4 (mol/kg)	0.171

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00232	<0.0005	0.0232	<0.005	0.5	2	25
Barium	0.00696	<0.0002	0.0696	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00474	<0.003	0.0474	<0.03	0.5	10	30
Nickel	0.000451	<0.0004	0.00451	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00159	<0.001	0.0159	<0.01	0.06	0.7	5
Selenium	0.00185	<0.001	0.0185	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	57.7	<2	577	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	13.1	<2	131	<20	1000	20000	50000
Total Dissolved Solids	200	<5	2000	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	9.26
Conductivity (µS/cm)	259
Temperature (°C)	18.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19262333
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.282
Loss on Ignition (%)	2.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.02
ANC to pH 6 (mol/kg)	0.0748
ANC to pH 4 (mol/kg)	0.171

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	9.26
Conductivity (µS/cm)	259
Temperature (°C)	18.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.1

Case	
SDG	190202-56
Lab Sample Number(s)	19262337
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.534
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.216
ANC to pH 4 (mol/kg)	0.989

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00079	<0.0005	0.0079	<0.005	0.5	2	25
Barium	0.0577	<0.0002	0.577	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000895	<0.0003	0.00895	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	0.0000186	<0.00001	0.000186	<0.0001	0.01	0.2	2
Molybdenum	0.0198	<0.003	0.198	<0.03	0.5	10	30
Nickel	0.000885	<0.0004	0.00885	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0039	<0.001	0.039	<0.01	0.06	0.7	5
Selenium	0.0414	<0.001	0.414	<0.01	0.1	0.5	7
Zinc	0.00232	<0.001	0.0232	<0.01	4	50	200
Chloride	222	<4	2220	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.2	<2	542	<20	1000	20000	50000
Total Dissolved Solids	642	<5	6420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.85
Conductivity (µS/cm)	816
Temperature (°C)	14.10
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.106	Natural Moisture Content (%)	17.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	85.1
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19262337
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.534
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.216
ANC to pH 4 (mol/kg)	0.989

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.85
Conductivity (µS/cm)	816
Temperature (°C)	14.10
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262339
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.717
Loss on Ignition (%)	2.10
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.63
ANC to pH 6 (mol/kg)	0.306
ANC to pH 4 (mol/kg)	1.39

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000618	<0.0005	0.00618	<0.005	0.5	2	25
Barium	0.0639	<0.0002	0.639	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0013	<0.0003	0.013	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	0.0000215	<0.00001	0.000215	<0.0001	0.01	0.2	2
Molybdenum	0.0285	<0.003	0.285	<0.03	0.5	10	30
Nickel	0.00136	<0.0004	0.0136	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00386	<0.001	0.0386	<0.01	0.06	0.7	5
Selenium	0.0416	<0.001	0.416	<0.01	0.1	0.5	7
Zinc	0.00168	<0.001	0.0168	<0.01	4	50	200
Chloride	269	<4	2690	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	74.5	<2	745	<20	1000	20000	50000
Total Dissolved Solids	828	<5	8280	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	7.88
Conductivity (µS/cm)	997
Temperature (°C)	12.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262339
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.717
Loss on Ignition (%)	2.10
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.63
ANC to pH 6 (mol/kg)	0.306
ANC to pH 4 (mol/kg)	1.39

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	7.88
Conductivity (µS/cm)	997
Temperature (°C)	12.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262340
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.748
Loss on Ignition (%)	2.10
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.82
ANC to pH 6 (mol/kg)	0.261
ANC to pH 4 (mol/kg)	1.55

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00059	<0.0005	0.0059	<0.005	0.5	2	25
Barium	0.0528	<0.0002	0.528	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000447	<0.0003	0.00447	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000187	<0.00001	0.000187	<0.0001	0.01	0.2	2
Molybdenum	0.0225	<0.003	0.225	<0.03	0.5	10	30
Nickel	0.00121	<0.0004	0.0121	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00336	<0.001	0.0336	<0.01	0.06	0.7	5
Selenium	0.0377	<0.001	0.377	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	236	<4	2360	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	61.6	<2	616	<20	1000	20000	50000
Total Dissolved Solids	706	<5	7060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	8.02
Conductivity (µS/cm)	919
Temperature (°C)	16.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19262340
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH221
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.748
Loss on Ignition (%)	2.10
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.82
ANC to pH 6 (mol/kg)	0.261
ANC to pH 4 (mol/kg)	1.55

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Feb-2019
pH (pH Units)	8.02
Conductivity (µS/cm)	919
Temperature (°C)	16.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.093
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	3.41
Dry Matter Content (%)	96.7

Case	
SDG	190202-56
Lab Sample Number(s)	19262342
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	2.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.92
ANC to pH 6 (mol/kg)	0.171
ANC to pH 4 (mol/kg)	0.272

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00121	<0.0005	0.0121	<0.005	0.5	2	25
Barium	0.0262	<0.0002	0.262	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.015	<0.001	0.15	<0.01	0.5	10	70
Copper	0.00379	<0.0003	0.0379	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000471	<0.0004	0.00471	<0.004	0.4	10	40
Lead	0.00592	<0.0002	0.0592	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.003	<0.001	0.03	<0.01	0.1	0.5	7
Zinc	0.0234	<0.001	0.234	<0.01	4	50	200
Chloride	18.5	<2	185	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	27.4	<2	274	<20	1000	20000	50000
Total Dissolved Solids	815	<5	8150	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.15	<0.016	1.5	<0.16	1	-	-
Dissolved Organic Carbon	3.61	<3	36.1	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	11.53
Conductivity (µS/cm)	1050
Temperature (°C)	17.20
Volume Leachant (Litres)	0.897

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.9
Dry Matter Content (%)	90.2

Case	
SDG	190202-56
Lab Sample Number(s)	19262343
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.556
Loss on Ignition (%)	3.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	169
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	12.00
ANC to pH 6 (mol/kg)	0.184
ANC to pH 4 (mol/kg)	0.445

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00153	<0.0005	0.0153	<0.005	0.5	2	25
Barium	0.038	<0.0002	0.38	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0117	<0.001	0.117	<0.01	0.5	10	70
Copper	0.0318	<0.0003	0.318	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0092	<0.003	0.092	<0.03	0.5	10	30
Nickel	0.00628	<0.0004	0.0628	<0.004	0.4	10	40
Lead	0.00106	<0.0002	0.0106	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0031	<0.001	0.031	<0.01	0.1	0.5	7
Zinc	0.00242	<0.001	0.0242	<0.01	4	50	200
Chloride	39.8	<2	398	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	39.4	<2	394	<20	1000	20000	50000
Total Dissolved Solids	1030	<5	10300	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.7	<3	117	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	11.56
Conductivity (µS/cm)	1370
Temperature (°C)	18.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.2
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19262343
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.556
Loss on Ignition (%)	3.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	169
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	12.00
ANC to pH 6 (mol/kg)	0.184
ANC to pH 4 (mol/kg)	0.445

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	11.56
Conductivity (µS/cm)	1370
Temperature (°C)	18.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	2.04
Dry Matter Content (%)	98.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262344
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.357
Loss on Ignition (%)	1.12
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	107
PAH Sum of 17 (mg/kg)	11.5
pH (pH Units)	8.96
ANC to pH 6 (mol/kg)	0.105
ANC to pH 4 (mol/kg)	0.221

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000971	<0.0005	0.00971	<0.005	0.5	2	25
Barium	0.0121	<0.0002	0.121	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00182	<0.001	0.0182	<0.01	0.5	10	70
Copper	0.0024	<0.0003	0.024	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000444	<0.0004	0.00444	<0.004	0.4	10	40
Lead	0.000461	<0.0002	0.00461	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00122	<0.001	0.0122	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	8.5	<2	85	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	78.9	<2	789	<20	1000	20000	50000
Total Dissolved Solids	188	<5	1880	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.48	<3	74.8	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.32
Conductivity (µS/cm)	237
Temperature (°C)	18.50
Volume Leachant (Litres)	0.898

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	2.04
Dry Matter Content (%)	98.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262344
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.357
Loss on Ignition (%)	1.12
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	107
PAH Sum of 17 (mg/kg)	11.5
pH (pH Units)	8.96
ANC to pH 6 (mol/kg)	0.105
ANC to pH 4 (mol/kg)	0.221

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	9.32
Conductivity (µS/cm)	237
Temperature (°C)	18.50
Volume Leachant (Litres)	0.898

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262345
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.04
Loss on Ignition (%)	4.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.82
ANC to pH 6 (mol/kg)	0.0565
ANC to pH 4 (mol/kg)	0.494

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00635	<0.0005	0.0635	<0.005	0.5	2	25
Barium	0.00591	<0.0002	0.0591	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00672	<0.001	0.0672	<0.01	0.5	10	70
Copper	0.0105	<0.0003	0.105	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0125	<0.003	0.125	<0.03	0.5	10	30
Nickel	0.00186	<0.0004	0.0186	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00289	<0.001	0.0289	<0.01	0.1	0.5	7
Zinc	0.00318	<0.001	0.0318	<0.01	4	50	200
Chloride	31.7	<2	317	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	163	<2	1630	<20	1000	20000	50000
Total Dissolved Solids	478	<5	4780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.5	<3	65	<30	500	800	1000

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	11.14
Conductivity (µS/cm)	635
Temperature (°C)	18.60
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262345
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.04
Loss on Ignition (%)	4.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.82
ANC to pH 6 (mol/kg)	0.0565
ANC to pH 4 (mol/kg)	0.494

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Feb-2019
pH (pH Units)	11.14
Conductivity (µS/cm)	635
Temperature (°C)	18.60
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262348
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.10
Loss on Ignition (%)	7.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.30
ANC to pH 6 (mol/kg)	0.0529
ANC to pH 4 (mol/kg)	0.172

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00357	<0.0005	0.0357	<0.005	0.5	2	25
Barium	0.00515	<0.0002	0.0515	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000135	<0.00001	0.000135	<0.0001	0.01	0.2	2
Molybdenum	0.0408	<0.003	0.408	<0.03	0.5	10	30
Nickel	0.00184	<0.0004	0.0184	<0.004	0.4	10	40
Lead	0.000737	<0.0002	0.00737	<0.002	0.5	10	50
Antimony	0.00435	<0.001	0.0435	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00207	<0.001	0.0207	<0.01	4	50	200
Chloride	33.6	<2	336	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	51.3	<2	513	<20	1000	20000	50000
Total Dissolved Solids	247	<5	2470	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	15	<3	150	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	8.10
Conductivity (µS/cm)	336
Temperature (°C)	17.40
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262348
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.10
Loss on Ignition (%)	7.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.30
ANC to pH 6 (mol/kg)	0.0529
ANC to pH 4 (mol/kg)	0.172

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	8.10
Conductivity (µS/cm)	336
Temperature (°C)	17.40
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262350
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.08
Loss on Ignition (%)	3.68
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.46
ANC to pH 6 (mol/kg)	0.0744
ANC to pH 4 (mol/kg)	0.473

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00248	<0.0005	0.0248	<0.005	0.5	2	25
Barium	0.0065	<0.0002	0.065	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0388	<0.003	0.388	<0.03	0.5	10	30
Nickel	0.00259	<0.0004	0.0259	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00858	<0.001	0.0858	<0.01	0.06	0.7	5
Selenium	0.00166	<0.001	0.0166	<0.01	0.1	0.5	7
Zinc	0.00184	<0.001	0.0184	<0.01	4	50	200
Chloride	63	<2	630	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	84	<2	840	<20	1000	20000	50000
Total Dissolved Solids	345	<5	3450	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.08	<3	90.8	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.99
Conductivity (µS/cm)	472
Temperature (°C)	16.60
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262350
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.08
Loss on Ignition (%)	3.68
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.46
ANC to pH 6 (mol/kg)	0.0744
ANC to pH 4 (mol/kg)	0.473

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	7.99
Conductivity (µS/cm)	472
Temperature (°C)	16.60
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262351
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.741
Loss on Ignition (%)	2.17
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.30
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.09
ANC to pH 6 (mol/kg)	0.0657
ANC to pH 4 (mol/kg)	0.368

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00267	<0.0005	0.0267	<0.005	0.5	2	25
Barium	0.00498	<0.0002	0.0498	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0183	<0.003	0.183	<0.03	0.5	10	30
Nickel	0.00126	<0.0004	0.0126	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00463	<0.001	0.0463	<0.01	0.06	0.7	5
Selenium	0.00234	<0.001	0.0234	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	55.8	<2	558	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.3	<2	373	<20	1000	20000	50000
Total Dissolved Solids	236	<5	2360	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.77	<3	57.7	<30	500	800	1000

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	6.66
Conductivity (µS/cm)	303
Temperature (°C)	16.60
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262351
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.741
Loss on Ignition (%)	2.17
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.30
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.09
ANC to pH 6 (mol/kg)	0.0657
ANC to pH 4 (mol/kg)	0.368

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	14-Feb-2019
pH (pH Units)	6.66
Conductivity (µS/cm)	303
Temperature (°C)	16.60
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262353
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.388
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.40
ANC to pH 6 (mol/kg)	0.0457
ANC to pH 4 (mol/kg)	0.0916

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00118	<0.0005	0.0118	<0.005	0.5	2	25
Barium	0.0111	<0.0002	0.111	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00103	<0.001	0.0103	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00329	<0.003	0.0329	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00107	<0.001	0.0107	<0.01	0.06	0.7	5
Selenium	0.00195	<0.001	0.0195	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	76.6	<2	766	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	24.1	<2	241	<20	1000	20000	50000
Total Dissolved Solids	260	<5	2600	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.58
Conductivity (µS/cm)	325
Temperature (°C)	16.90
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262353
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.388
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.40
ANC to pH 6 (mol/kg)	0.0457
ANC to pH 4 (mol/kg)	0.0916

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.58
Conductivity (µS/cm)	325
Temperature (°C)	16.90
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190202-56
Lab Sample Number(s)	19262355
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.587
Loss on Ignition (%)	1.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.79
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.80
ANC to pH 6 (mol/kg)	0.141
ANC to pH 4 (mol/kg)	0.910

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000954	<0.0005	0.00954	<0.005	0.5	2	25
Barium	0.0597	<0.0002	0.597	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00416	<0.001	0.0416	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0132	<0.003	0.132	<0.03	0.5	10	30
Nickel	0.000831	<0.0004	0.00831	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00333	<0.001	0.0333	<0.01	0.06	0.7	5
Selenium	0.0201	<0.001	0.201	<0.01	0.1	0.5	7
Zinc	0.0014	<0.001	0.014	<0.01	4	50	200
Chloride	226	<4	2260	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	48.5	<2	485	<20	1000	20000	50000
Total Dissolved Solids	663	<5	6630	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.93
Conductivity (µS/cm)	811
Temperature (°C)	15.60
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.104	Natural Moisture Content (%)	14.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	87.0
Particle Size <4mm	>95%		

Case	
SDG	190202-56
Lab Sample Number(s)	19262355
Sampled Date	30-Jan-2019
Customer Sample Ref.	BH220
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.587
Loss on Ignition (%)	1.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.79
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.80
ANC to pH 6 (mol/kg)	0.141
ANC to pH 4 (mol/kg)	0.910

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Feb-2019
pH (pH Units)	8.93
Conductivity (µS/cm)	811
Temperature (°C)	15.60
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
 05/04/2019 13:54:58



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM304	HSE Contract research Report no 83/1996	Asbestos Quantification in Soil: Fibres identified by morphology only
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19259861	19259862	19259863	19259864	19259865	19259870	19259872	19259874	19259876	19259878
	BH206	BH206	BH206	BH206	BH206	BH206	BH206	BH206	BH206	BH206
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00	9.00 - 10.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019
Anions by Kone (w)	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Asbestos ID in Solid Samples	15-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	09-Feb-2019	09-Feb-2019	18-Feb-2019	17-Feb-2019	17-Feb-2019
CEN 10:1 Leachate (1 Stage)	15-Feb-2019	18-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
CEN Readings	17-Feb-2019	19-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	16-Feb-2019	16-Feb-2019	18-Feb-2019	17-Feb-2019	17-Feb-2019
Coronene	20-Feb-2019	21-Feb-2019	15-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Dissolved Metals by ICP-MS	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019
Dissolved Organic/Inorganic Carbon	21-Feb-2019	22-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019
EPH CWG (Aliphatic) GC (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
EPH CWG (Aromatic) GC (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Fluoride	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
GRO by GC-FID (S)	20-Feb-2019	18-Feb-2019	20-Feb-2019	19-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Hexavalent Chromium (s)	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Loss on Ignition in soils	17-Feb-2019	18-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	19-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019
Mercury Dissolved	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Metals in solid samples by OES	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Mineral Oil	21-Feb-2019	22-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019
PAH 16 & 17 Calc	20-Feb-2019	26-Feb-2019	19-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	18-Feb-2019	18-Feb-2019
PAH by GCMS	20-Feb-2019	26-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019
PCBs by GCMS	22-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
pH	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019
Phenols by HPLC (S)	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	22-Feb-2019	23-Feb-2019	23-Feb-2019
Phenols by HPLC (W)	25-Feb-2019	22-Feb-2019	25-Feb-2019	23-Feb-2019	23-Feb-2019	25-Feb-2019	25-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019
Sample description	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Total Dissolved Solids	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Total Organic Carbon	17-Feb-2019	18-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	20-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019
TPH CWG GC (S)	20-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
VOC MS (S)	19-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19259879	19259884	19259886	19259887	19259889	19259891	19259893	19259896	19259898	19259899
	BH206	BH207	BH207	BH207	BH207	BH207	BH207	BH207	BH207	BH207
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	15.00 - 16.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00	11.00 - 12.00	12.00 - 13.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	20-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019	19-Feb-2019	18-Feb-2019
Anions by Kone (w)	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	17-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019
CEN 10:1 Leachate (1 Stage)	15-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	18-Feb-2019	15-Feb-2019	18-Feb-2019
CEN Readings	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	19-Feb-2019	17-Feb-2019	19-Feb-2019
Coronene	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019	19-Feb-2019	18-Feb-2019
Dissolved Metals by ICP-MS	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Dissolved Organic/Inorganic Carbon	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
EPH CWG (Aliphatic) GC (S)	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
EPH CWG (Aromatic) GC (S)	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Fluoride	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019
GRO by GC-FID (S)	19-Feb-2019	21-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	16-Feb-2019	16-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019
Hexavalent Chromium (s)	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Loss on Ignition in soils	17-Feb-2019	17-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	17-Feb-2019	18-Feb-2019	17-Feb-2019	18-Feb-2019
Mercury Dissolved	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019
Metals in solid samples by OES	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Mineral Oil	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019	19-Feb-2019	18-Feb-2019
PAH 16 & 17 Calc	20-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	22-Feb-2019	21-Feb-2019
PAH by GCMS	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019
PCBs by GCMS	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
pH	17-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	15-Feb-2019
Phenols by HPLC (S)	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	22-Feb-2019	23-Feb-2019	22-Feb-2019	23-Feb-2019
Phenols by HPLC (W)	25-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	25-Feb-2019	23-Feb-2019	25-Feb-2019	22-Feb-2019	23-Feb-2019	25-Feb-2019
Sample description	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Total Dissolved Solids	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019
Total Organic Carbon	17-Feb-2019	17-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	18-Feb-2019
TPH CWG GC (S)	20-Feb-2019	21-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
VOC MS (S)	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19259900	19259902	19259903	19259904	19259905	19259906	19259907	19259909	19259911	19259916
	BH207	BH207	BH207	BH208	BH208	BH208	BH208	BH208	BH208	BH208
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	13.00 - 14.00	15.00 - 16.00	16.00 - 17.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019
Anions by Kone (w)	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019
Asbestos ID in Solid Samples	18-Feb-2019	18-Feb-2019	17-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019		09-Feb-2019	08-Feb-2019	17-Feb-2019
CEN 10:1 Leachate (1 Stage)	18-Feb-2019	18-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019
CEN Readings	19-Feb-2019	19-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	18-Feb-2019
Coronene	19-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019
Dissolved Metals by ICP-MS	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019
Dissolved Organic/Inorganic Carbon	22-Feb-2019	22-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019
EPH CWG (Aliphatic) GC (S)	20-Feb-2019	21-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019
EPH CWG (Aromatic) GC (S)	20-Feb-2019	21-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019
Fluoride	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
GRO by GC-FID (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019
Hexavalent Chromium (s)	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019
Loss on Ignition in soils	18-Feb-2019	18-Feb-2019	17-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	17-Feb-2019
Mercury Dissolved	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Metals in solid samples by OES	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Mineral Oil	19-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019
PAH 16 & 17 Calc	20-Feb-2019	21-Feb-2019	21-Feb-2019	19-Feb-2019	21-Feb-2019	22-Feb-2019	20-Feb-2019	21-Feb-2019	19-Feb-2019	20-Feb-2019
PAH by GCMS	20-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019
PCBs by GCMS	21-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019
pH	17-Feb-2019	17-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019
Phenols by HPLC (S)	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	22-Feb-2019	23-Feb-2019	22-Feb-2019	23-Feb-2019	23-Feb-2019	22-Feb-2019
Phenols by HPLC (W)	22-Feb-2019	22-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019
Sample description	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Total Dissolved Solids	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Total Organic Carbon	17-Feb-2019	18-Feb-2019	17-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	17-Feb-2019
TPH CWG GC (S)	20-Feb-2019	21-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019
VOC MS (S)	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19259919	19259920	19259923	19259924	19259926	19262365	19262367	19262370	19262372	19262373
	BH208	BH208	BH208	BH208	BH208	BH209	BH209	BH209	BH209	BH209
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00
	SOLID	SOLID	SOLID	SOLID	SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID
ANC at pH4 and ANC at pH 6	20-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019	18-Feb-2019	19-Feb-2019
Anions by Kone (w)	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	18-Feb-2019	15-Feb-2019	18-Feb-2019	15-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019	15-Feb-2019	18-Feb-2019
Asbestos Quantification - Full						25-Feb-2019	25-Feb-2019			
CEN 10:1 Leachate (1 Stage)	18-Feb-2019	18-Feb-2019	15-Feb-2019	15-Feb-2019	18-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
CEN Readings	19-Feb-2019	19-Feb-2019	17-Feb-2019	17-Feb-2019	19-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019
Coronene	20-Feb-2019	19-Feb-2019	15-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019
Dissolved Metals by ICP-MS	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Dissolved Organic/Inorganic Carbon	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019
EPH CWG (Aliphatic) GC (S)	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019
EPH CWG (Aromatic) GC (S)	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019
Fluoride	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
GRO by GC-FID (S)	19-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
Hexavalent Chromium (s)	20-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Loss on Ignition in soils	17-Feb-2019	19-Feb-2019	17-Feb-2019	17-Feb-2019	18-Feb-2019	17-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019	15-Feb-2019
Mercury Dissolved	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Metals in solid samples by OES	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019
Mineral Oil	21-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
PAH 16 & 17 Calc	20-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	20-Feb-2019
PAH by GCMS	20-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019
PCBs by GCMS	20-Feb-2019	19-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
pH	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	18-Feb-2019	17-Feb-2019	17-Feb-2019
Phenols by HPLC (S)	22-Feb-2019	23-Feb-2019	22-Feb-2019	23-Feb-2019	22-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	22-Feb-2019	22-Feb-2019
Phenols by HPLC (W)	26-Feb-2019	25-Feb-2019	23-Feb-2019	23-Feb-2019	22-Feb-2019	25-Feb-2019	23-Feb-2019	25-Feb-2019	23-Feb-2019	23-Feb-2019
Sample description	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Dissolved Solids	20-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Total Organic Carbon	17-Feb-2019	20-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	16-Feb-2019	17-Feb-2019	17-Feb-2019	16-Feb-2019
TPH CWG GC (S)	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
VOC MS (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	19262375	19262376	19262379	19262381	19262383	19262385	19262387	19262342	19262343	19262344
	BH209	BH209	BH209	BH209	BH209	BH209	BH209	BH220	BH220	BH220
	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00
	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID
ANC at pH4 and ANC at pH 6	19-Feb-2019	19-Feb-2019	18-Feb-2019	20-Feb-2019	13-Feb-2019	20-Feb-2019	18-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Anions by Kone (w)	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Asbestos ID in Solid Samples	15-Feb-2019	15-Feb-2019	15-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	17-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019
CEN 10:1 Leachate (1 Stage)	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	08-Feb-2019	15-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
CEN Readings	15-Feb-2019	15-Feb-2019	15-Feb-2019	16-Feb-2019	10-Feb-2019	16-Feb-2019	18-Feb-2019	17-Feb-2019	18-Feb-2019	18-Feb-2019
Coronene	18-Feb-2019	15-Feb-2019	15-Feb-2019	19-Feb-2019	09-Feb-2019	19-Feb-2019	18-Feb-2019	17-Feb-2019	15-Feb-2019	18-Feb-2019
Dissolved Metals by ICP-MS	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	15-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019
Dissolved Organic/Inorganic Carbon	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019
EPH CWG (Aliphatic) GC (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	12-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	21-Feb-2019
EPH CWG (Aromatic) GC (S)	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	12-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	21-Feb-2019
Fluoride	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	14-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
GRO by GC-FID (S)	21-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019
Hexavalent Chromium (s)	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	12-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Loss on Ignition in soils	15-Feb-2019	15-Feb-2019	17-Feb-2019	19-Feb-2019	13-Feb-2019	19-Feb-2019	17-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Mercury Dissolved	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Metals in solid samples by OES	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	13-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019
Mineral Oil	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	11-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
PAH 16 & 17 Calc	18-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	10-Feb-2019	21-Feb-2019	21-Feb-2019	18-Feb-2019	20-Feb-2019	21-Feb-2019
PAH by GCMS	18-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	10-Feb-2019	21-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019
PCBs by GCMS	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	19-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019
pH	17-Feb-2019	17-Feb-2019	17-Feb-2019	15-Feb-2019	10-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Phenols by HPLC (S)	21-Feb-2019	22-Feb-2019	21-Feb-2019	22-Feb-2019	15-Feb-2019	22-Feb-2019	22-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019
Phenols by HPLC (W)	25-Feb-2019	23-Feb-2019	23-Feb-2019	25-Feb-2019	26-Feb-2019	25-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019	23-Feb-2019
Sample description	13-Feb-2019	13-Feb-2019	13-Feb-2019	14-Feb-2019	07-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Total Dissolved Solids	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	13-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Total Organic Carbon	16-Feb-2019	16-Feb-2019	17-Feb-2019	20-Feb-2019	14-Feb-2019	20-Feb-2019	17-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
TPH CWG GC (S)	21-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
VOC MS (S)	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	21-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	19262345	19262348	19262350	19262351	19262353	19262355	19262358	19262359	19262363	19259932
	BH220	BH220	BH220	BH220	BH220	BH220	BH220	BH220	BH220	BH221
	2.00 - 3.00	4.00 - 5.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	0.00 - 0.50
	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	SOLID
ANC at pH4 and ANC at pH 6	20-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	18-Feb-2019	19-Feb-2019
Anions by Kone (w)	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	08-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	17-Feb-2019	15-Feb-2019
Asbestos Quantification - Full	18-Feb-2019									
CEN 10:1 Leachate (1 Stage)	18-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	17-Feb-2019	18-Feb-2019
CEN Readings	19-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	18-Feb-2019	19-Feb-2019
Coronene	18-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	20-Feb-2019	18-Feb-2019	19-Feb-2019
Dissolved Metals by ICP-MS	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019
Dissolved Organic/Inorganic Carbon	22-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019
EPH CWG (Aliphatic) GC (S)	21-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019
EPH CWG (Aromatic) GC (S)	21-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	21-Feb-2019
Fluoride	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019
GRO by GC-FID (S)	21-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	27-Feb-2019	20-Feb-2019	19-Feb-2019
Hexavalent Chromium (s)	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Loss on Ignition in soils	18-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	19-Feb-2019	19-Feb-2019	17-Feb-2019	19-Feb-2019
Mercury Dissolved	20-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019
Metals in solid samples by OES	19-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
Mineral Oil	18-Feb-2019	19-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019
PAH 16 & 17 Calc	21-Feb-2019	21-Feb-2019	22-Feb-2019	20-Feb-2019	19-Feb-2019	18-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019
PAH by GCMS	18-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019
PCBs by GCMS	21-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019
pH	15-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Phenols by HPLC (S)	23-Feb-2019	21-Feb-2019	22-Feb-2019	21-Feb-2019	22-Feb-2019	21-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	23-Feb-2019
Phenols by HPLC (W)	22-Feb-2019	25-Feb-2019	23-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	23-Feb-2019	25-Feb-2019
Sample description	14-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Total Dissolved Solids	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019
Total Organic Carbon	17-Feb-2019	16-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	20-Feb-2019	20-Feb-2019	17-Feb-2019	20-Feb-2019
TPH CWG GC (S)	21-Feb-2019	20-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	19-Feb-2019	21-Feb-2019	28-Feb-2019	21-Feb-2019	21-Feb-2019
VOC MS (S)	18-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	18-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

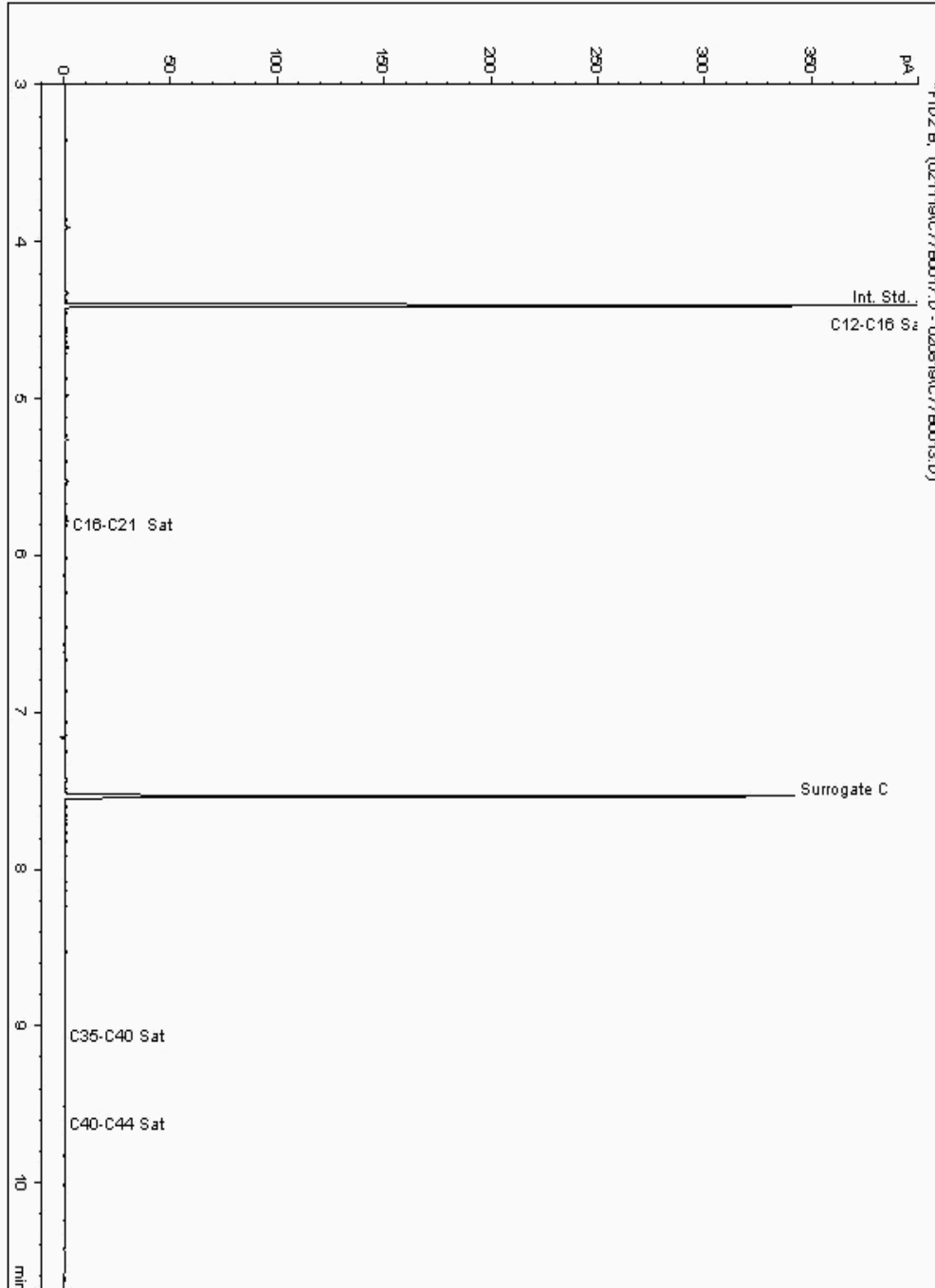
Analysis: EPH CWG (Aliphatic) GC (S)
19293423

Sample No :
Sample ID : BH209

19,293,423 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112073-
Date Acquired : 11/02/2019 13:36:34 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

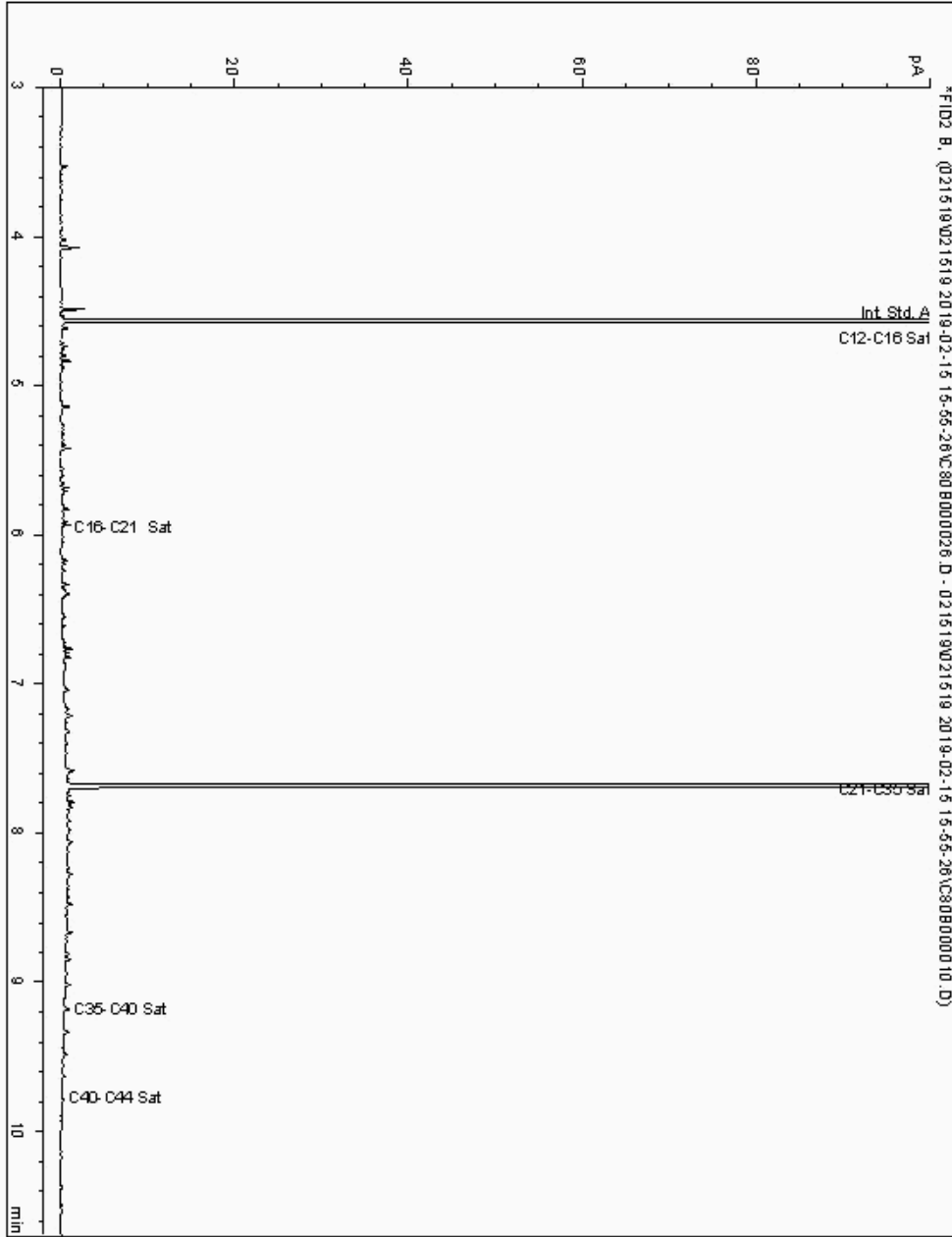
Analysis: EPH CWG (Aliphatic) GC (S)
19339880

Sample No :
Sample ID : BH220

19,339,880 Depth : 11.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111750-
Date Acquired : 16/02/19 00:10:26
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

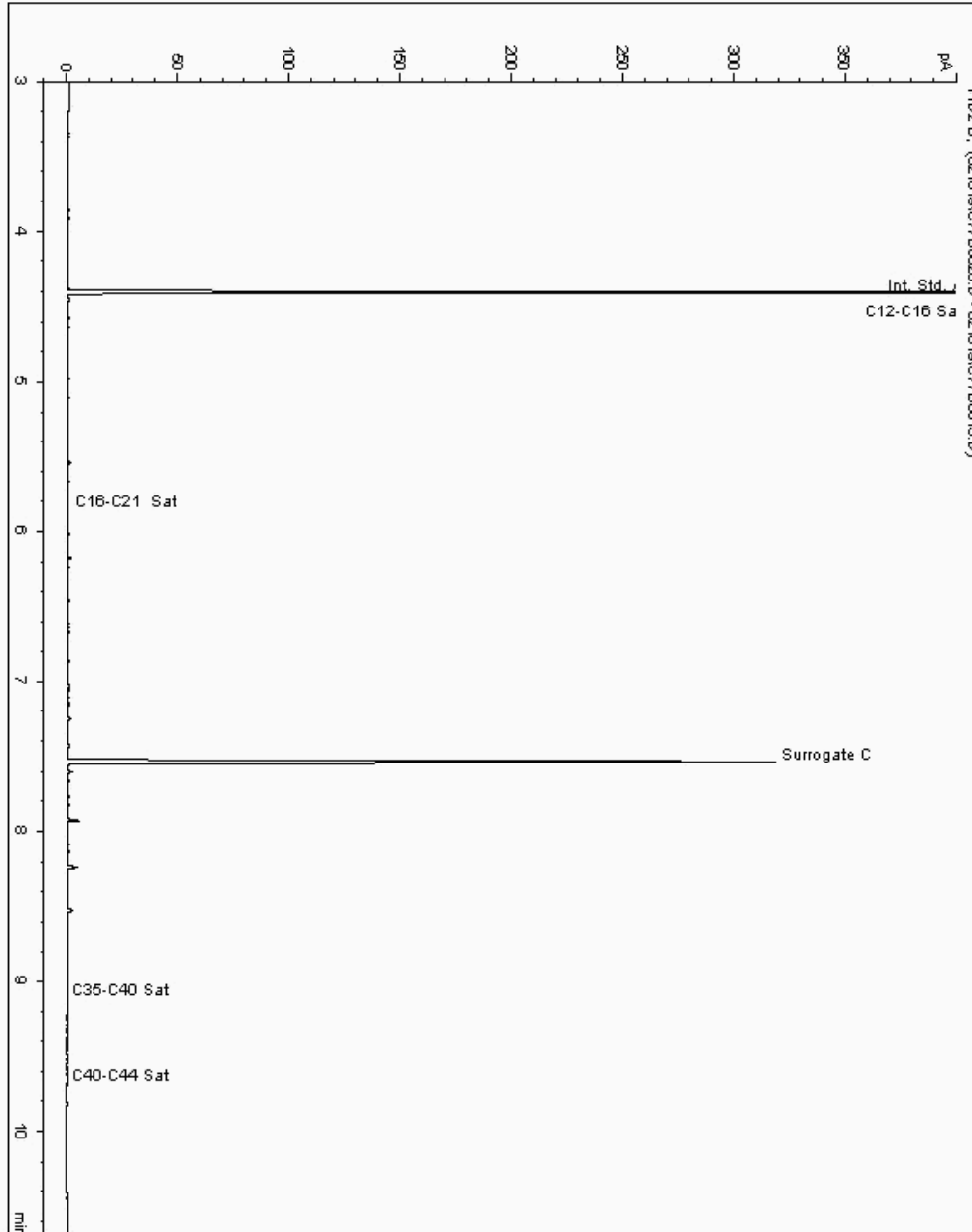
Analysis: EPH CWG (Aliphatic) GC (S)
19339974

Sample No :
Sample ID : BH220

19,339,974 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111678-
Date Acquired : 16/02/2019 22:41:34 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

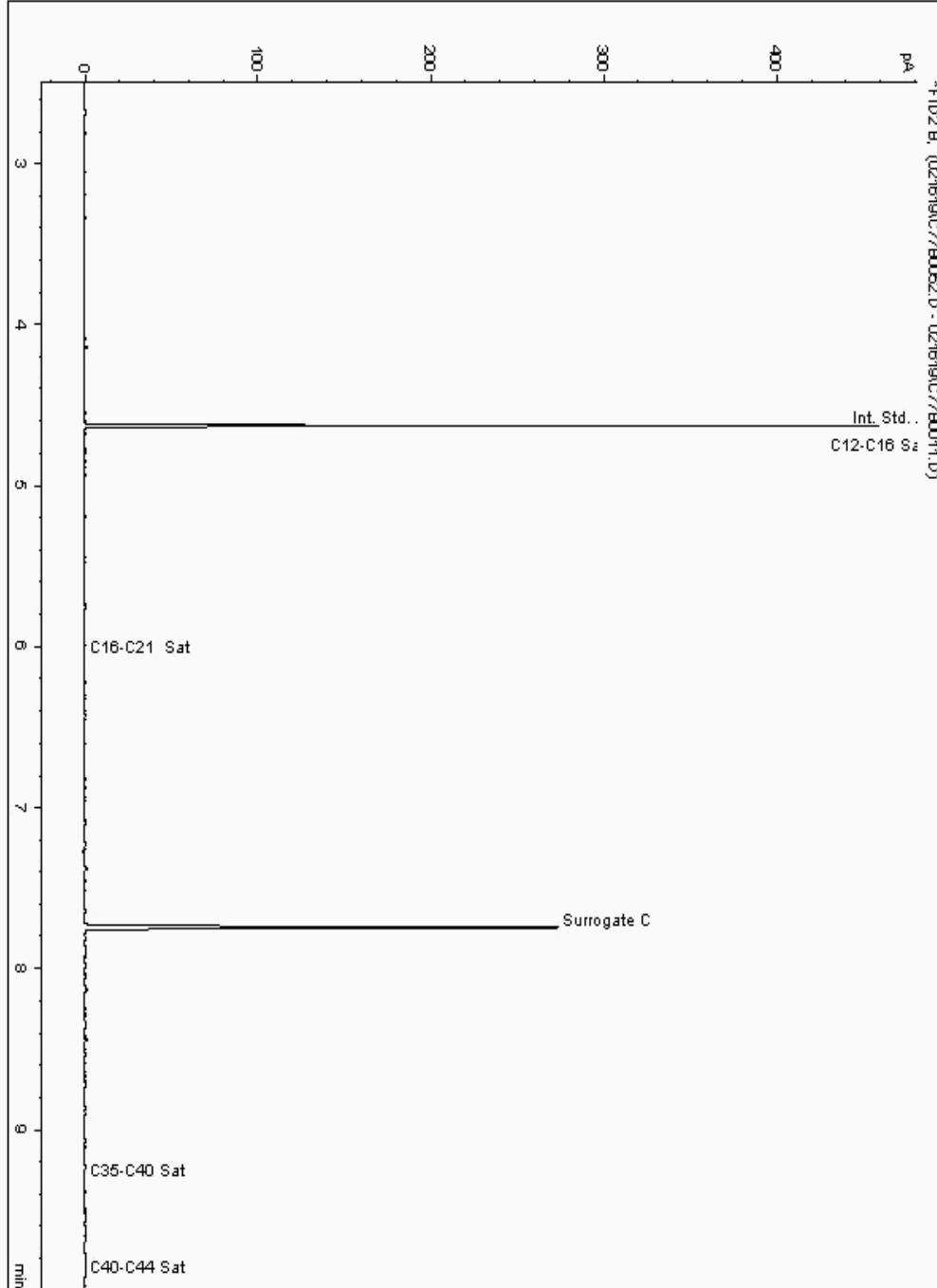
Analysis: EPH CWG (Aliphatic) GC (S)
19340190

Sample No :
Sample ID : BH209

19,340,190Depth :5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111970-
Date Acquired : 2/17/2019 5:43:32 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

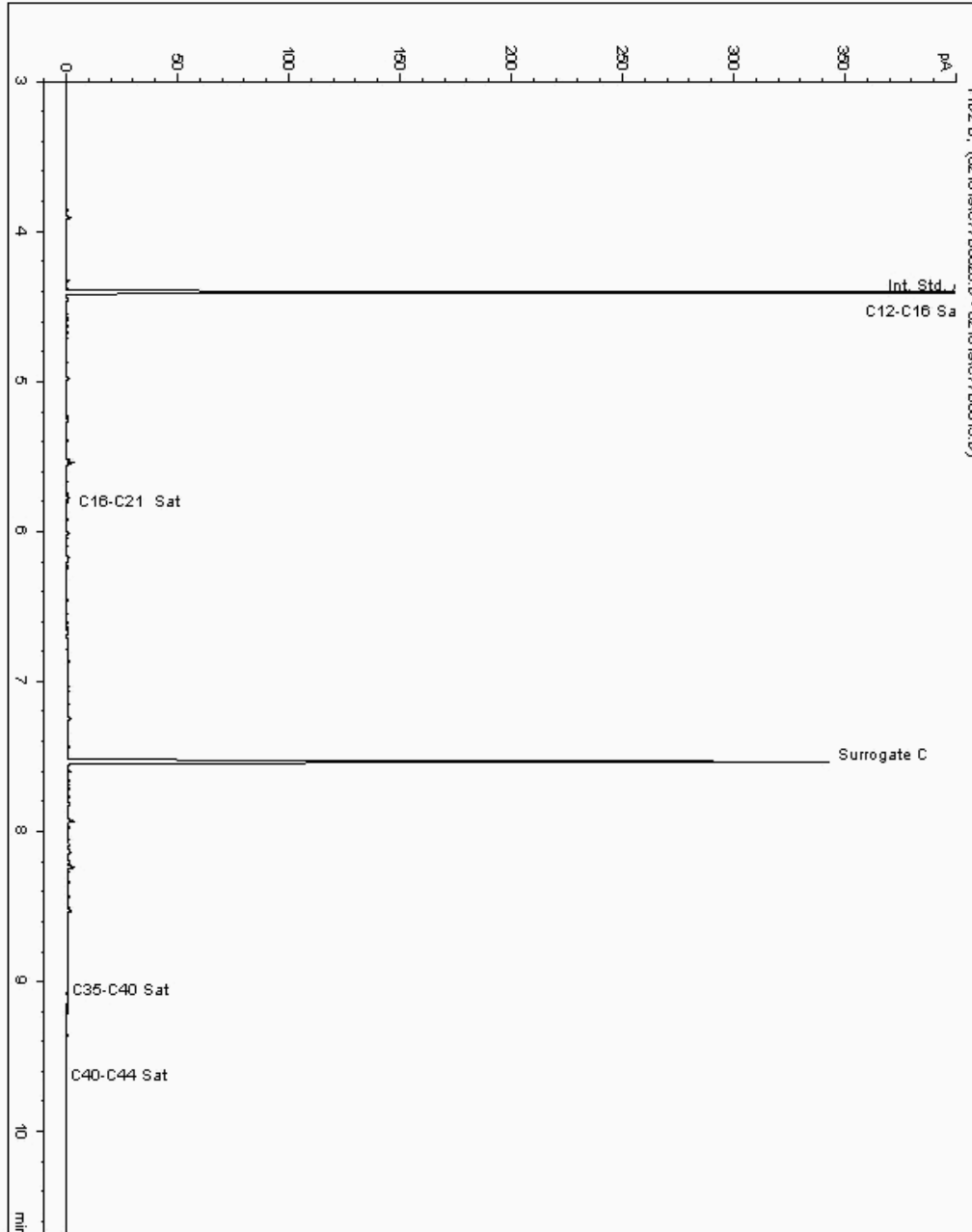
Analysis: EPH CWG (Aliphatic) GC (S)
19340253

Sample No :
Sample ID : BH220

19,340,253 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111653-
Date Acquired : 16/02/2019 20:24:47 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

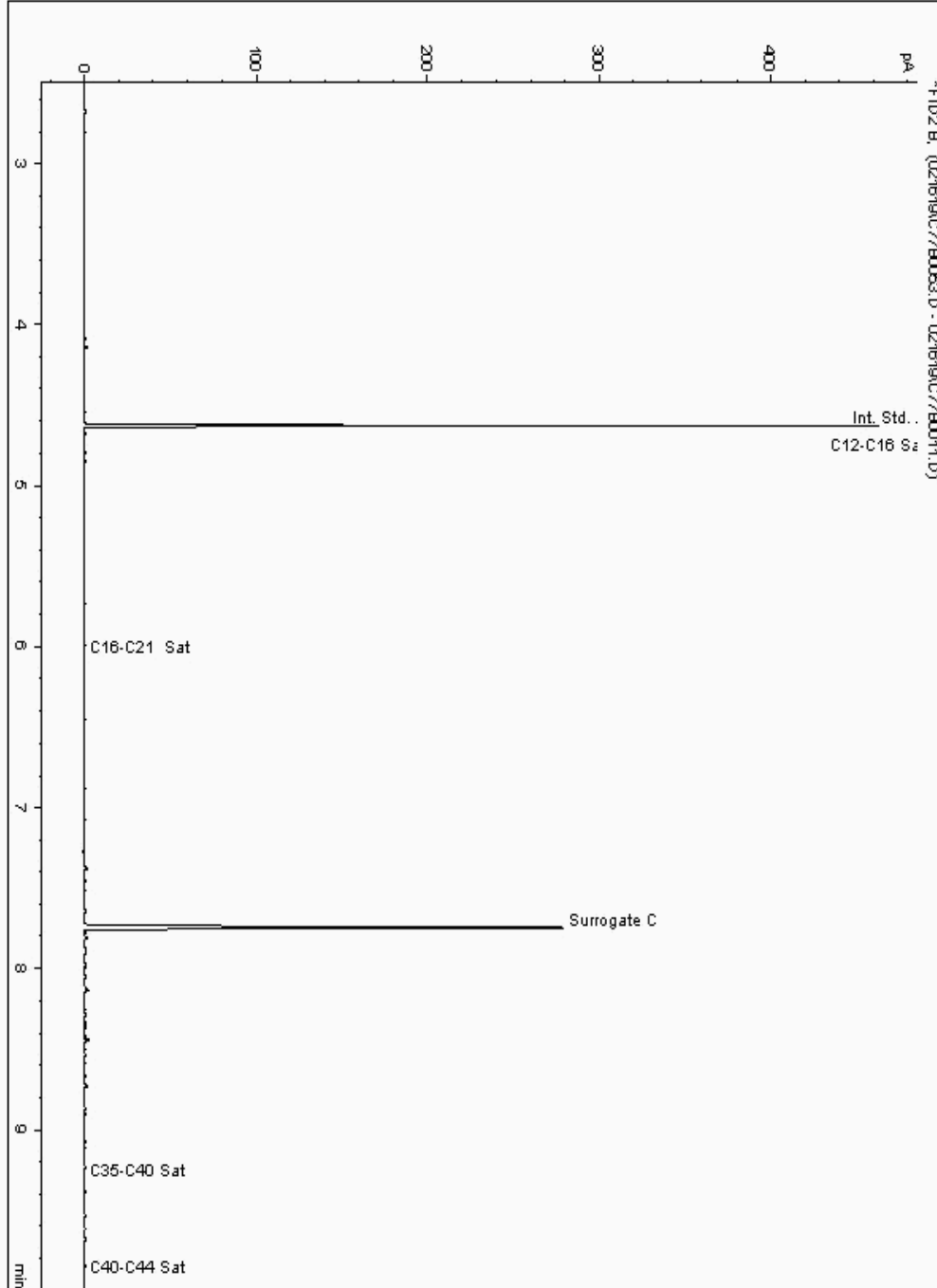
Analysis: EPH CWG (Aliphatic) GC (S)
19340331

Sample No :
Sample ID : BH209

19,340,331 Depth : 6.00 - 7.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111993-
Date Acquired : 2/17/2019 6:03:33 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

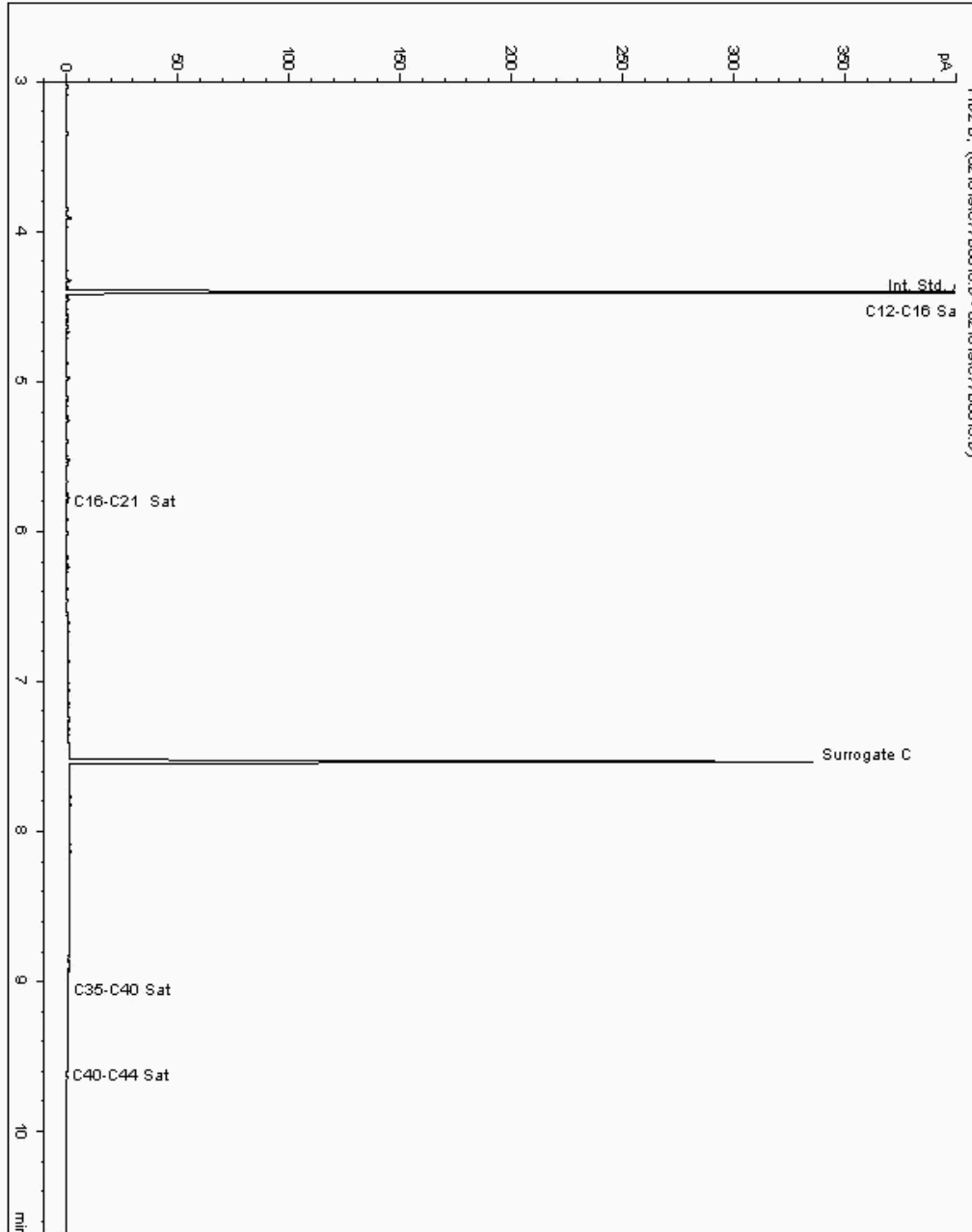
Analysis: EPH CWG (Aliphatic) GC (S)
19340434

Sample No :
Sample ID : BH209

19,340,434 Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111851-
Date Acquired : 16/02/2019 19:04:06 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

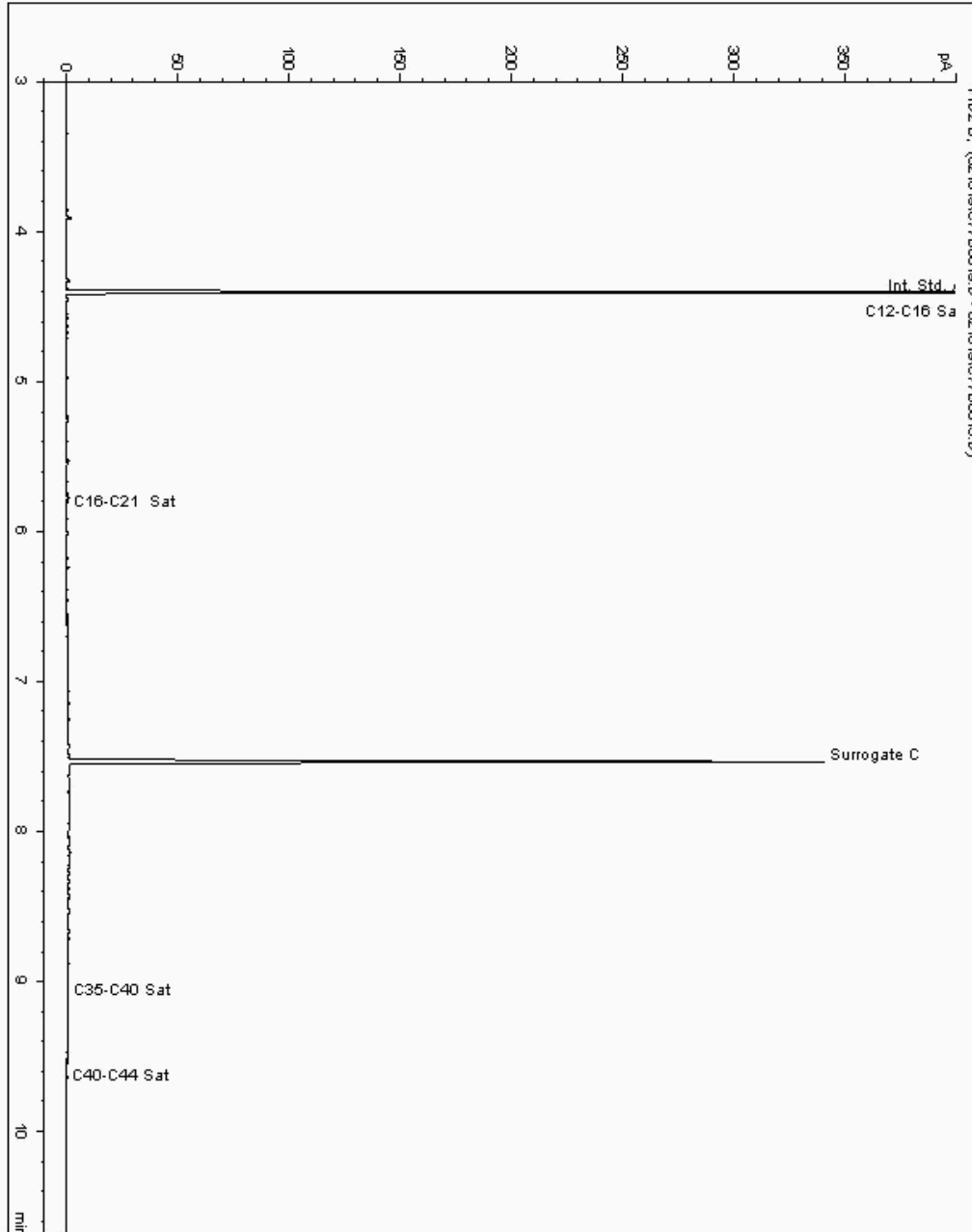
Analysis: EPH CWG (Aliphatic) GC (S)
19340479

Sample No :
Sample ID : BH209

19,340,479 Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111876-
Date Acquired : 16/02/2019 20:04:28 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

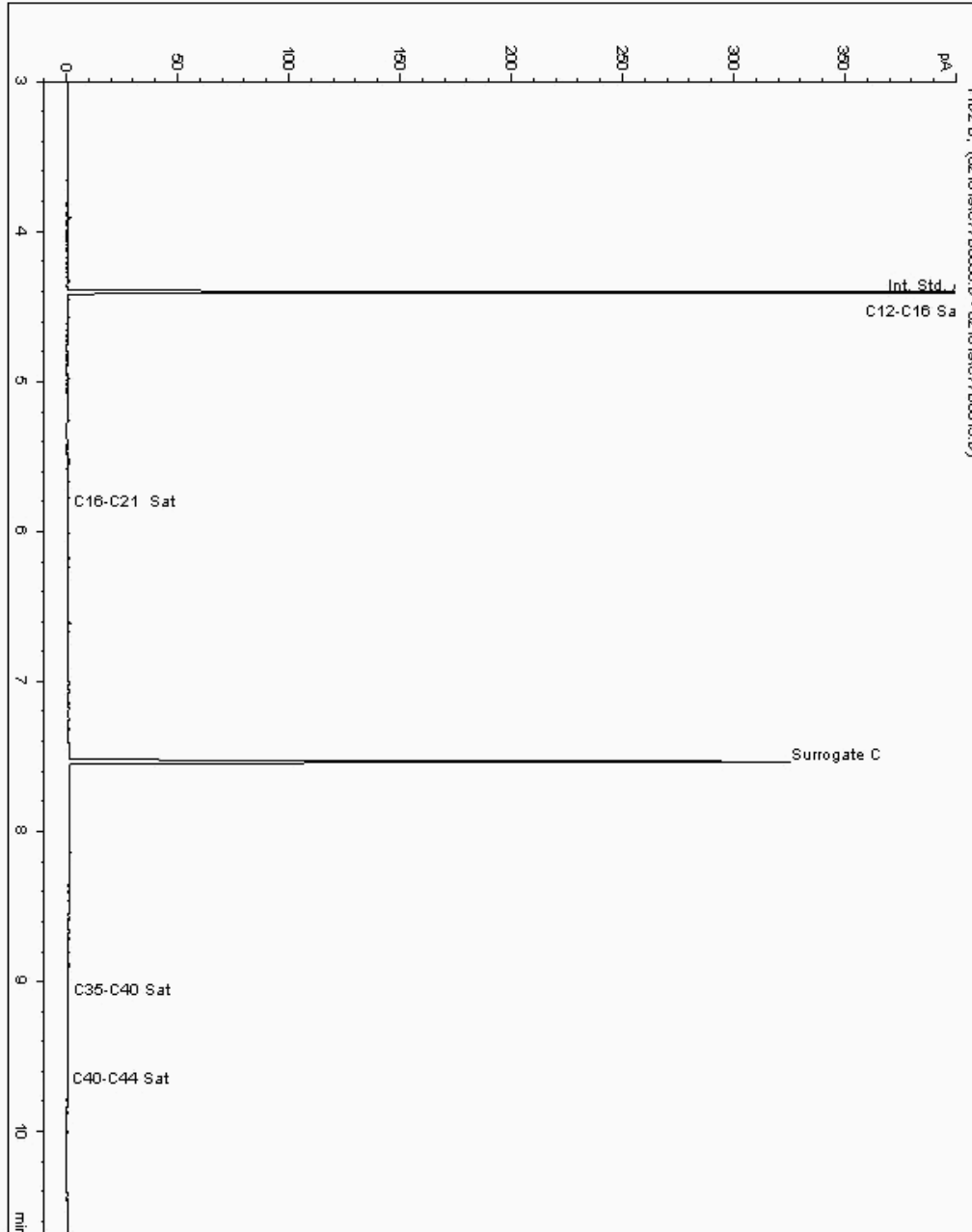
Analysis: EPH CWG (Aliphatic) GC (S)
19340600

Sample No :
Sample ID : BH209

19,340,600 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111901-
Date Acquired : 17/02/2019 01:06:31 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

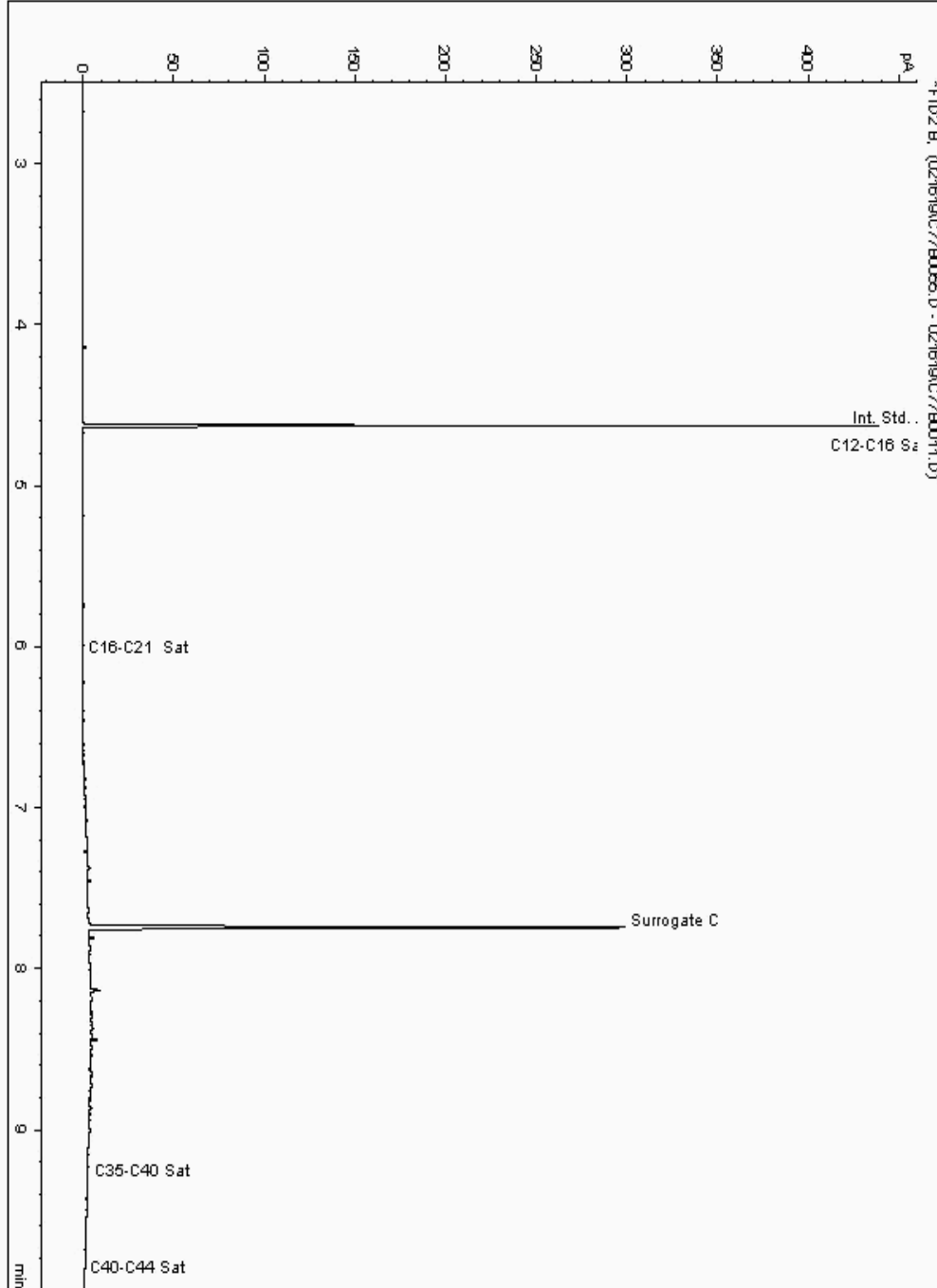
Analysis: EPH CWG (Aliphatic) GC (S)
19340885

Sample No :
Sample ID : BH209

19,340,885Depth :2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111924-
Date Acquired : 2/17/2019 6:43:39 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

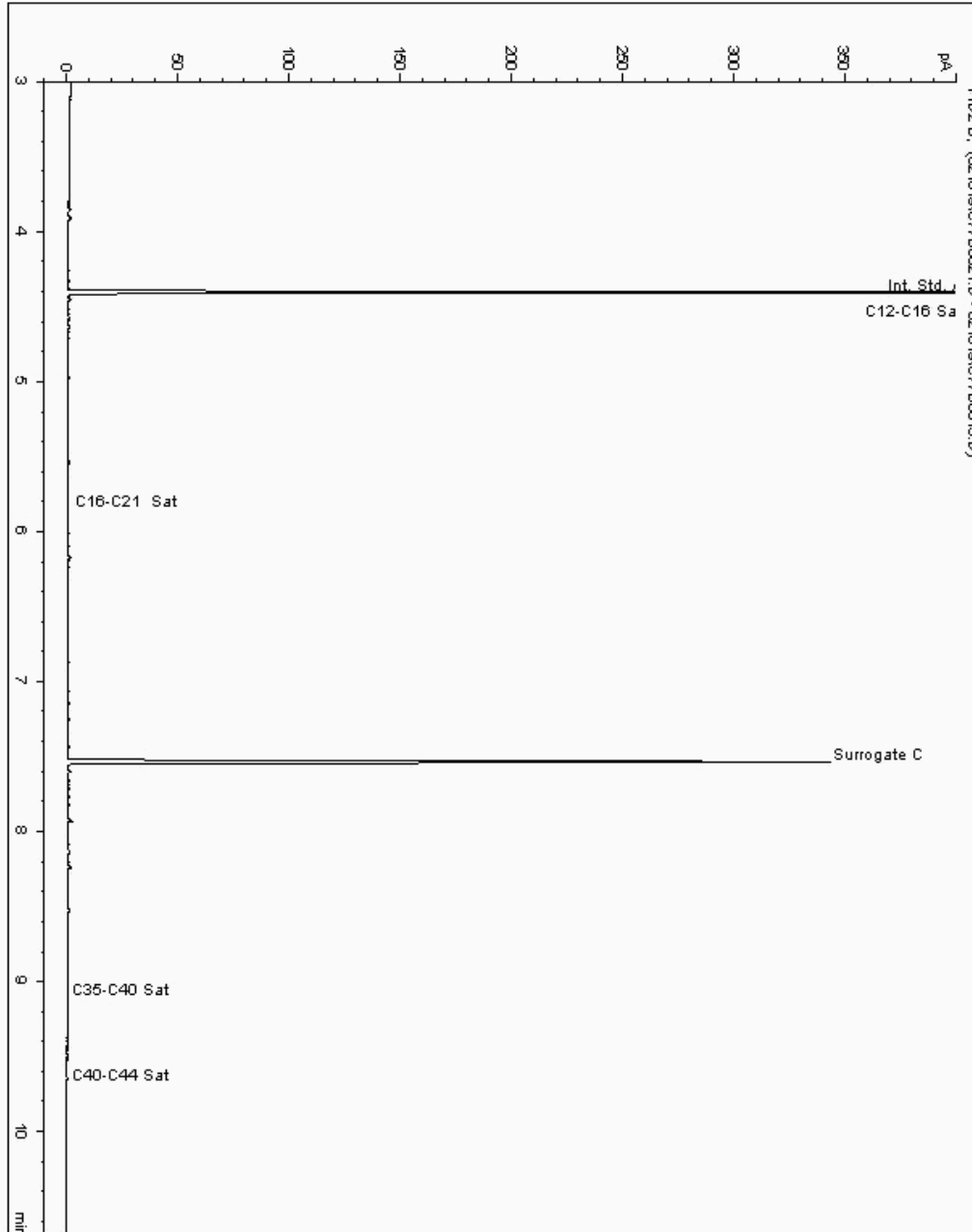
Analysis: EPH CWG (Aliphatic) GC (S)
19340989

Sample No :
Sample ID : BH209

19,340,989 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111947-
Date Acquired : 16/02/2019 20:44:53 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

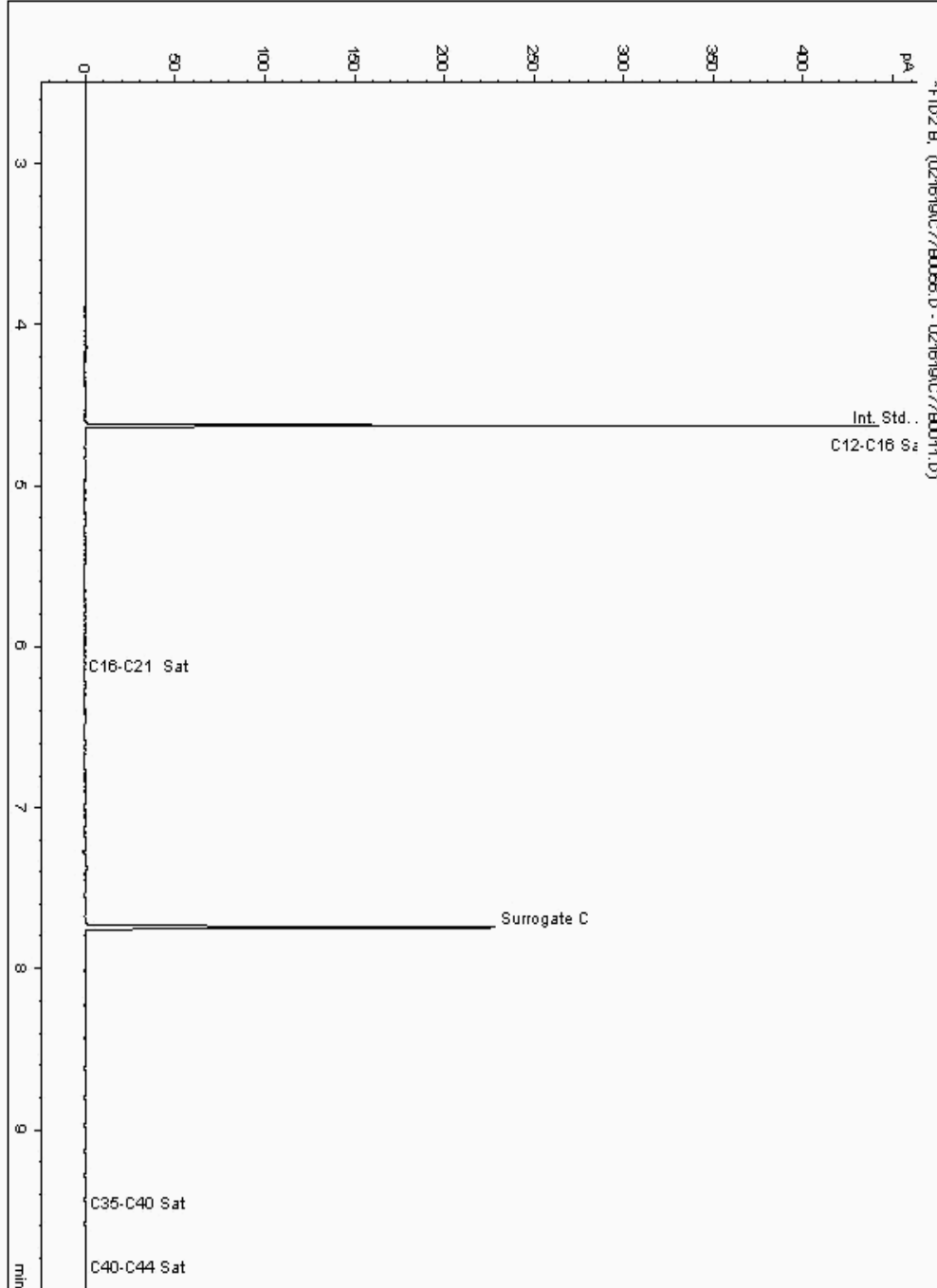
Analysis: EPH CWG (Aliphatic) GC (S)
19341087

Sample No :
Sample ID : BH209

19,341,087Depth : 9.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112016-
Date Acquired : 2/17/2019 7:03:41 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

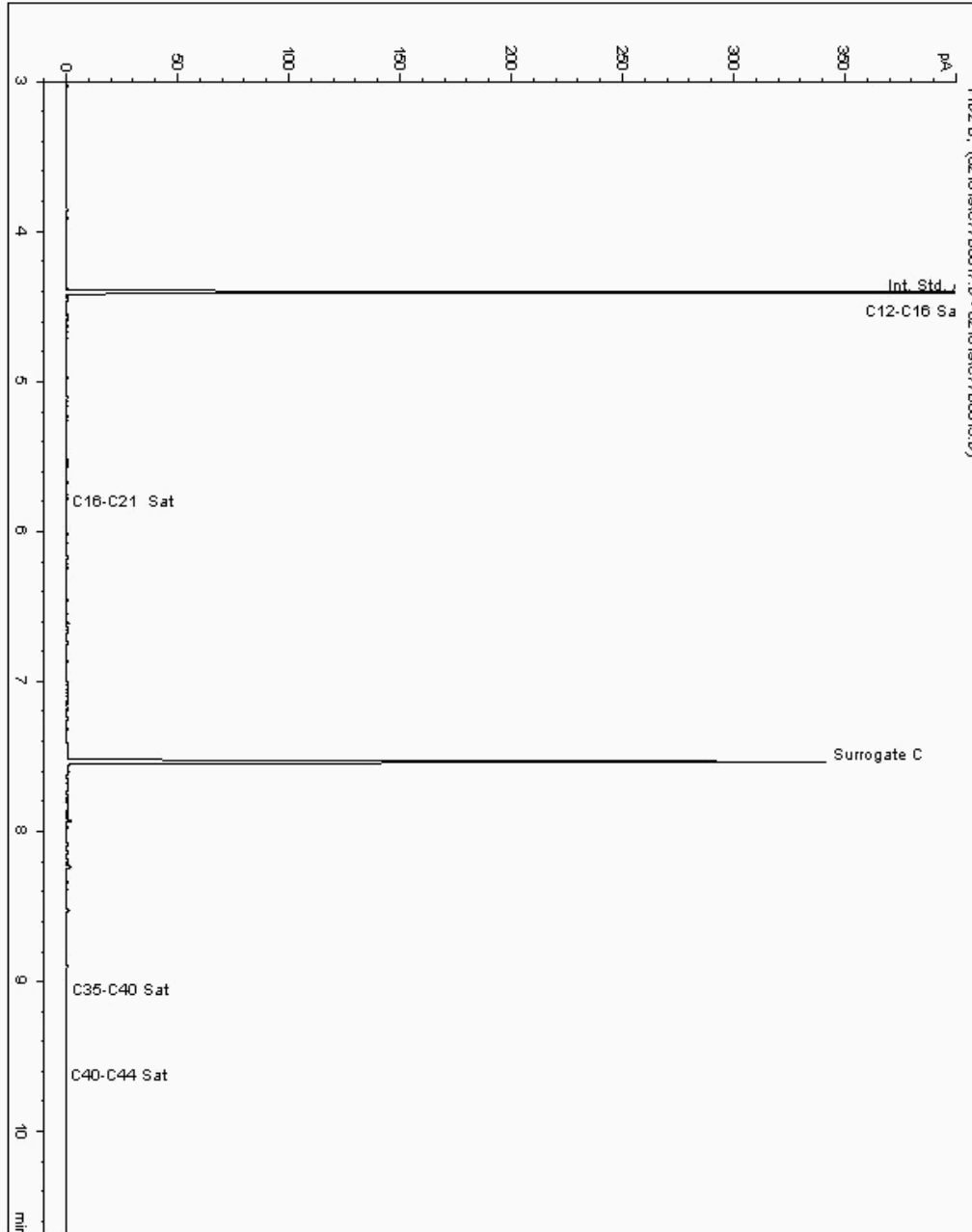
Analysis: EPH CWG (Aliphatic) GC (S)
19341263

Sample No :
Sample ID : BH220

19,341,263 Depth : 7.00 - 8.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111703-
Date Acquired : 16/02/2019 19:24:20 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

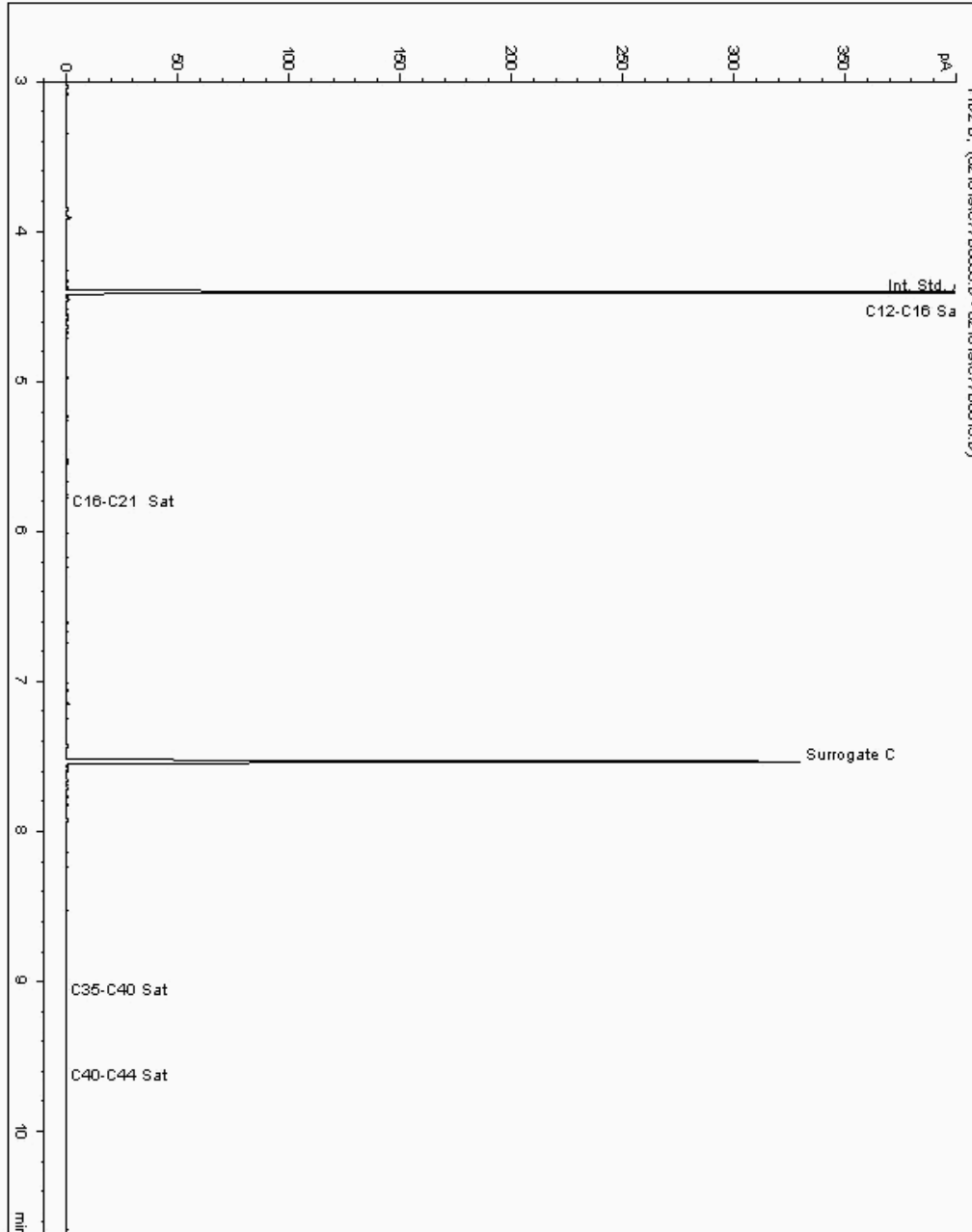
Analysis: EPH CWG (Aliphatic) GC (S)
19341383

Sample No :
Sample ID : BH220

19,341,383 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111726-
Date Acquired : 17/02/2019 00:46:26 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

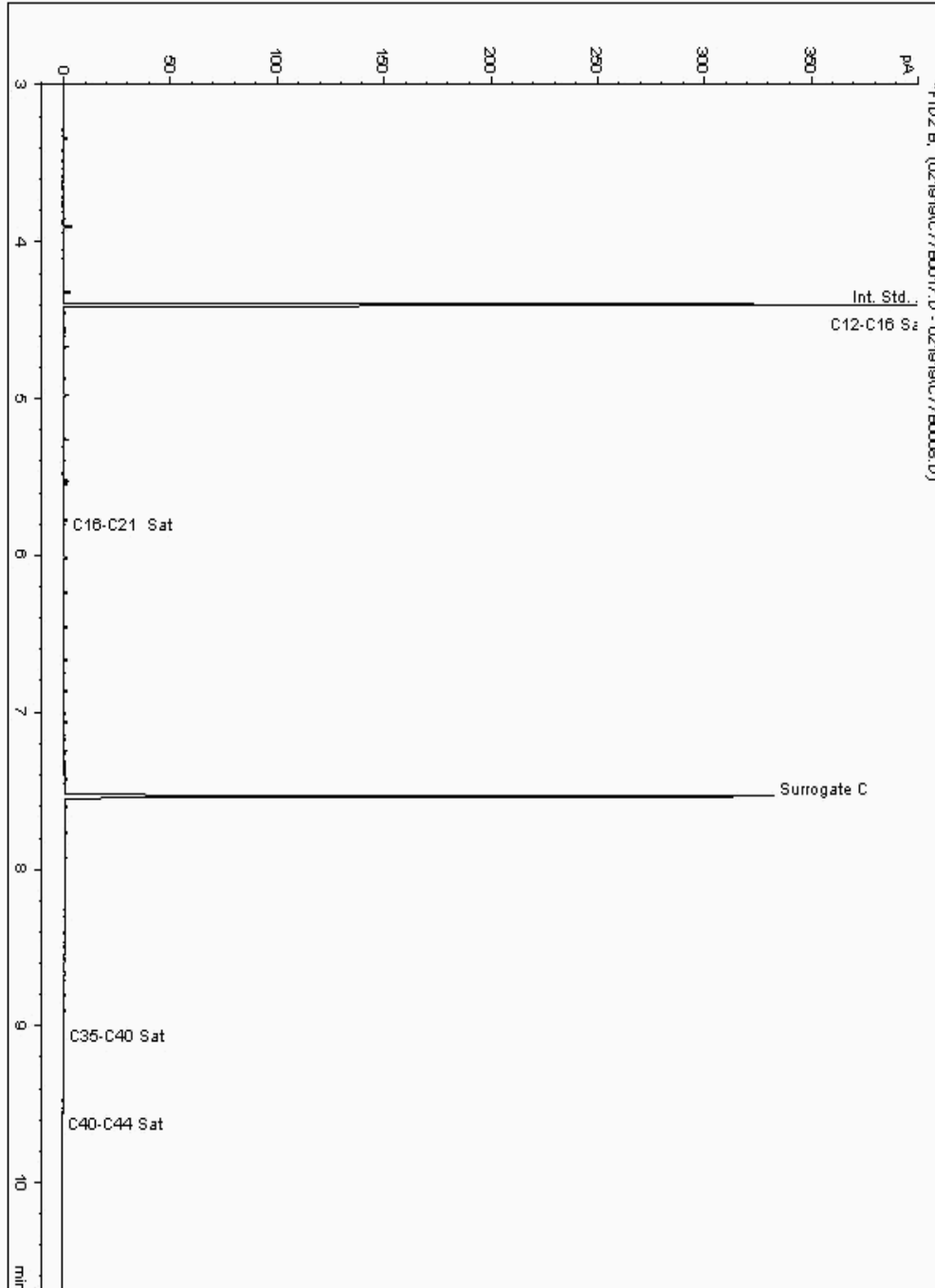
Analysis: EPH CWG (Aliphatic) GC (S)
19345327

Sample No :
Sample ID : BH206

19,345,327 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109773-
Date Acquired : 19/02/2019 15:05:26 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

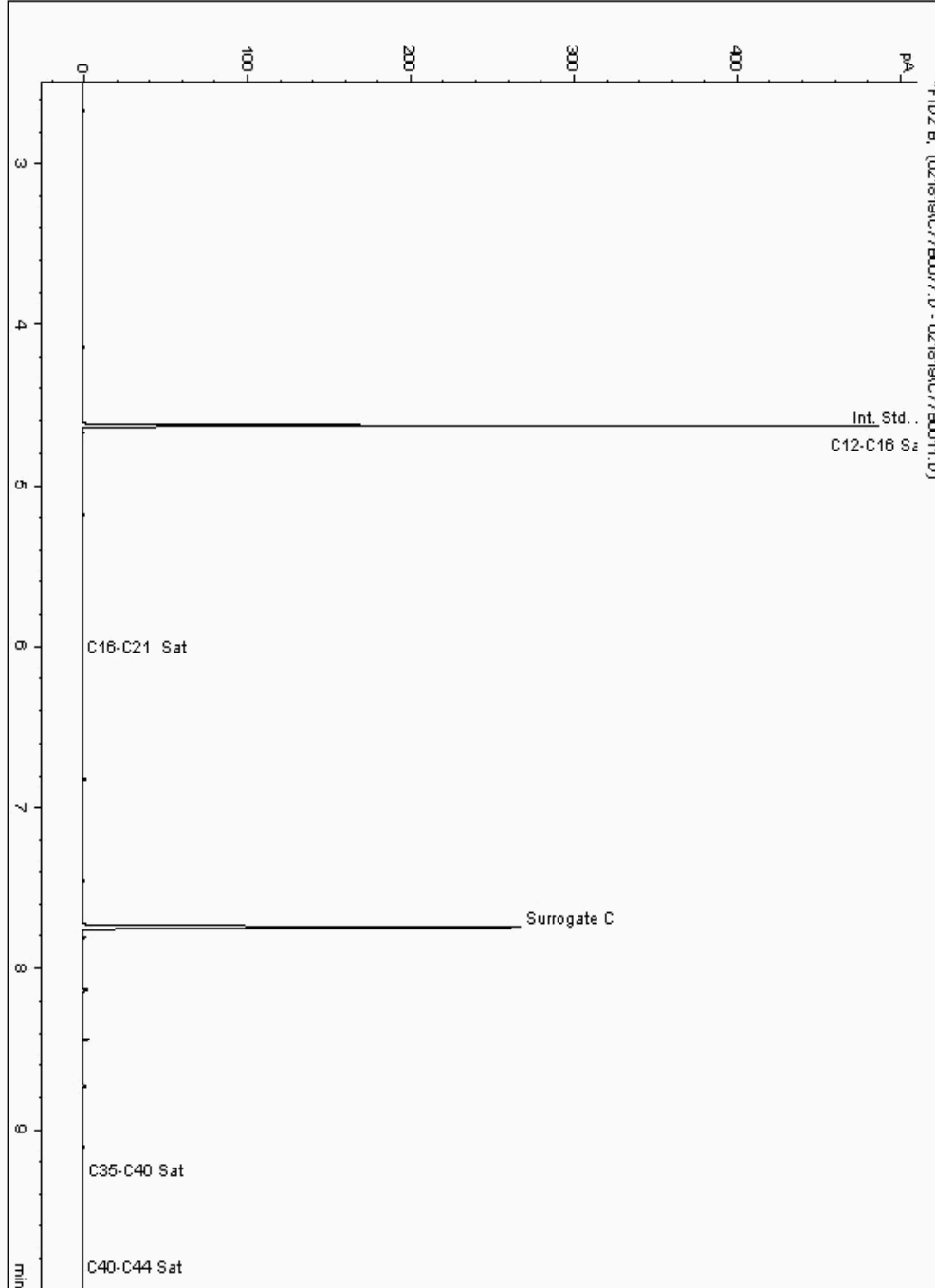
Analysis: EPH CWG (Aliphatic) GC (S)
19345482

Sample No :
Sample ID : BH221

19,345,482Depth :2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111274-
Date Acquired : 2/20/2019 11:35:48 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

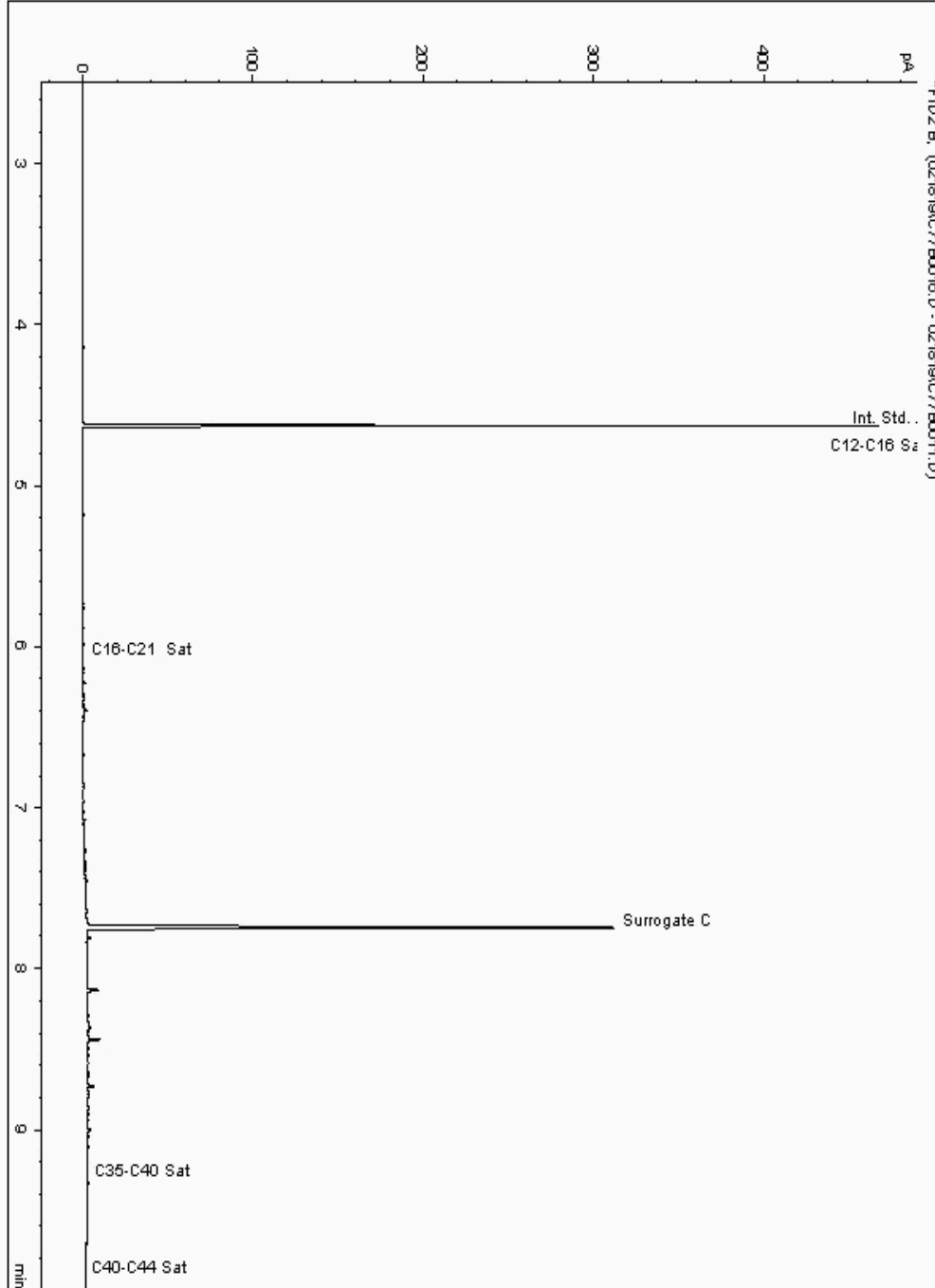
Analysis: EPH CWG (Aliphatic) GC (S)
19345516

Sample No :
Sample ID : BH208

19,345,516 Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110932-
Date Acquired : 2/18/2019 6:16:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

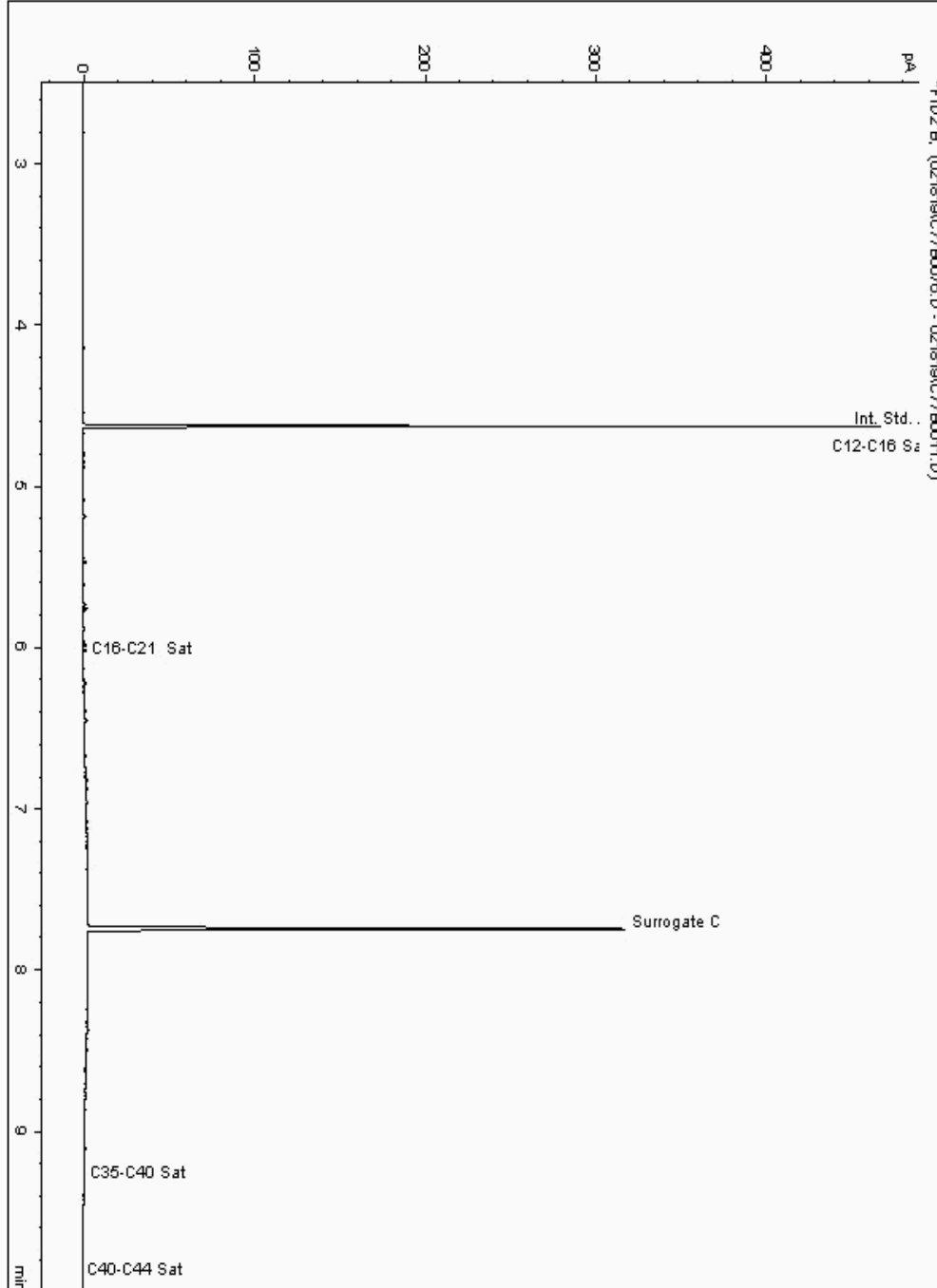
Analysis: EPH CWG (Aliphatic) GC (S)
19345561

Sample No :
Sample ID : BH220

19,345,561 Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111602-
Date Acquired : 2/20/2019 11:15:39 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

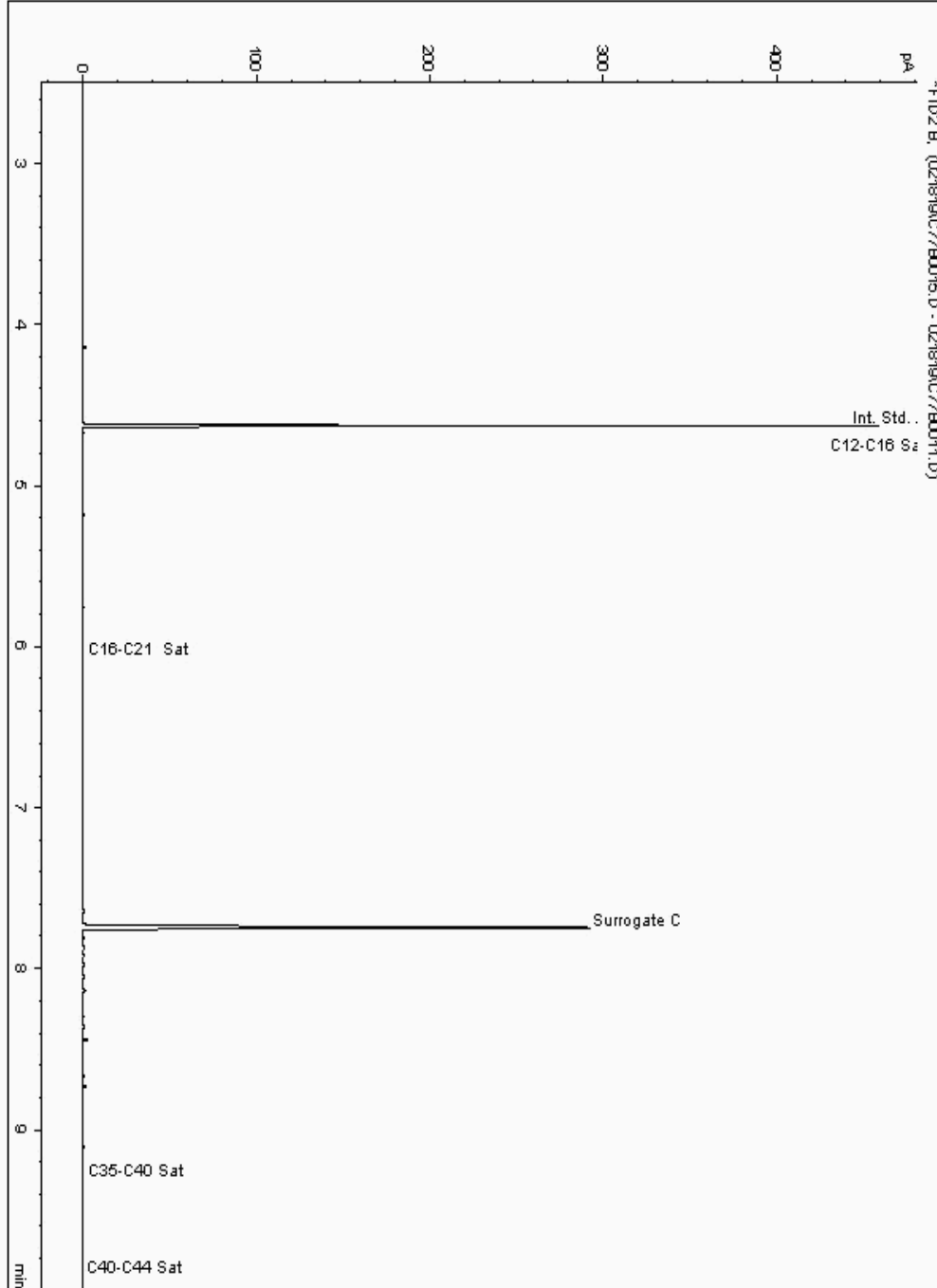
Analysis: EPH CWG (Aliphatic) GC (S)
19345594

Sample No :
Sample ID : BH208

19,345,594 Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110753-
Date Acquired : 2/18/2019 5:56:14 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

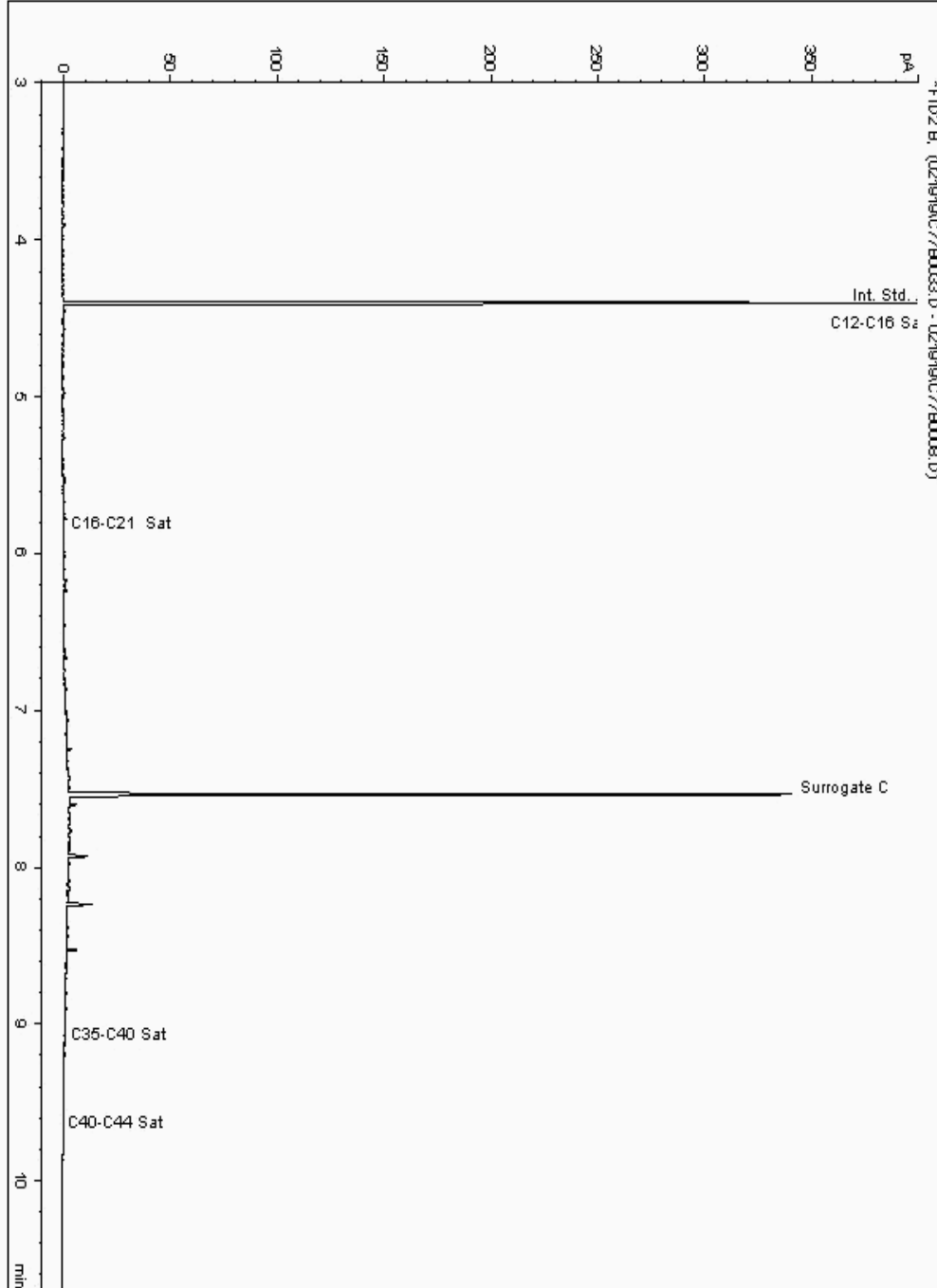
Analysis: EPH CWG (Aliphatic) GC (S)
19345631

Sample No :
Sample ID : BH221

19,345,631 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111324-
Date Acquired : 19/02/2019 20:20:14 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

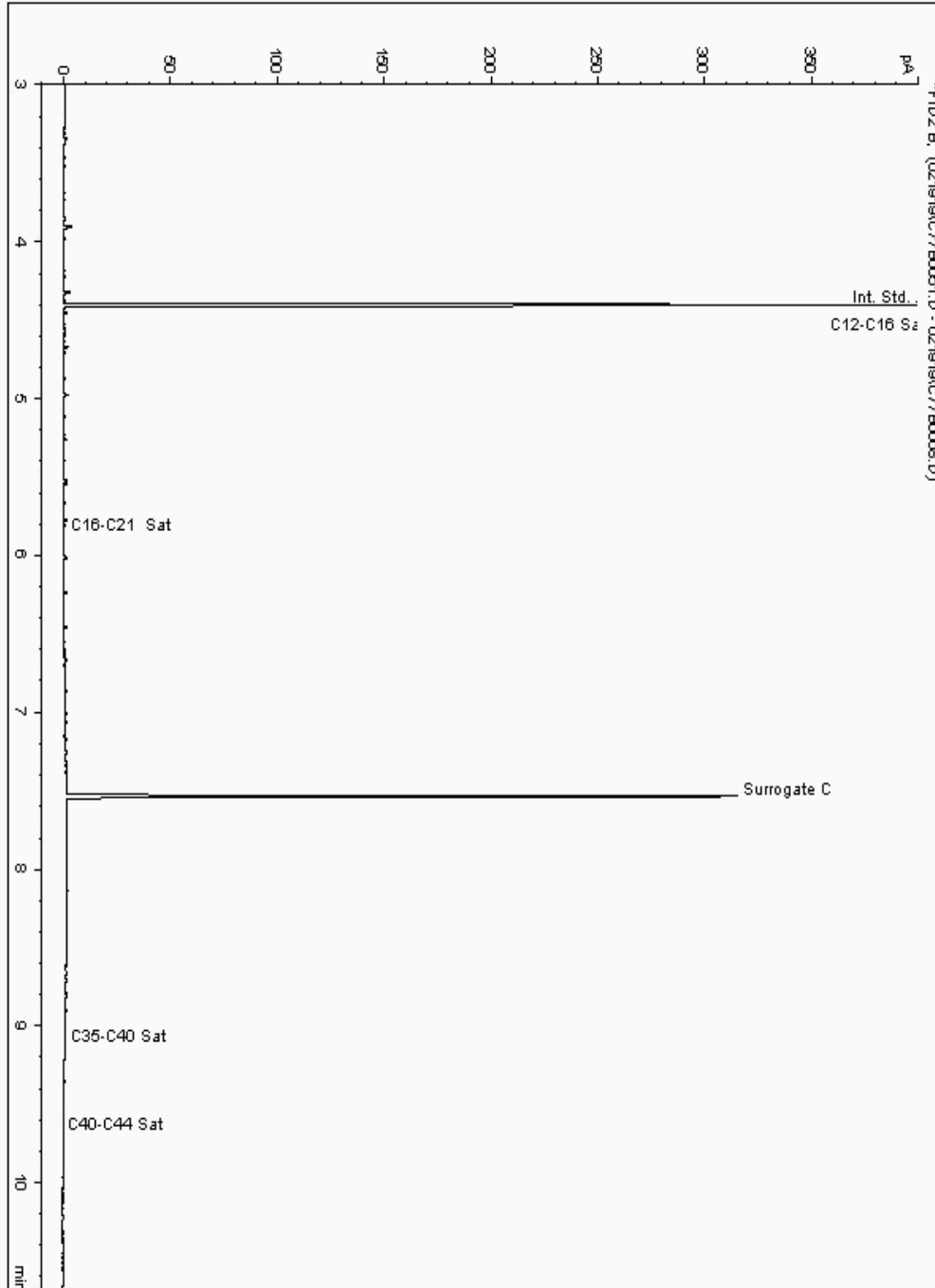
Analysis: EPH CWG (Aliphatic) GC (S)
19345705

Sample No :
Sample ID : BH206

19,345,705 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109901-
Date Acquired : 20/02/2019 01:44:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

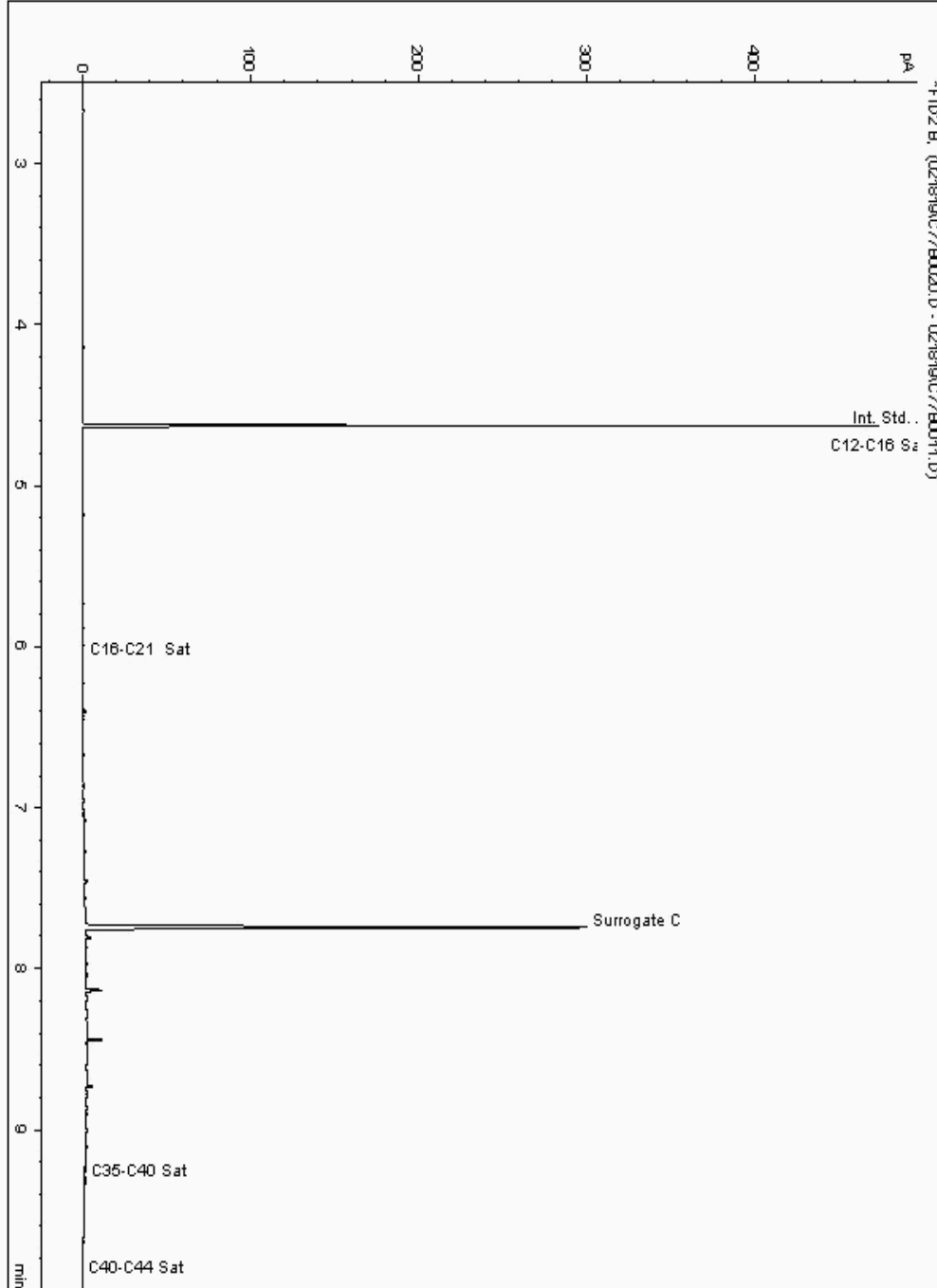
Analysis: EPH CWG (Aliphatic) GC (S)
19345731

Sample No :
Sample ID : BH206

19,345,731 Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109527-
Date Acquired : 2/18/2019 7:36:17 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

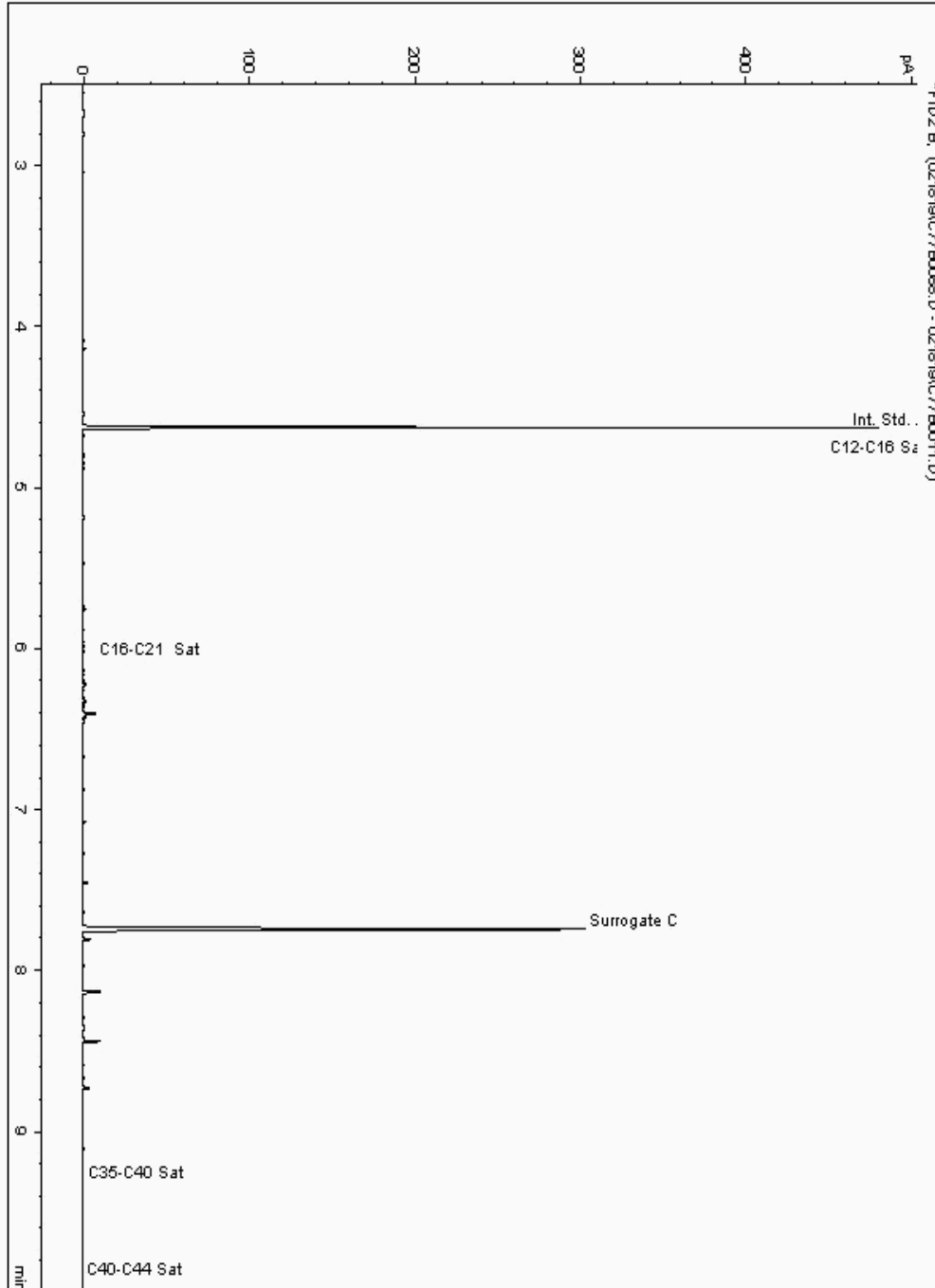
Analysis: EPH CWG (Aliphatic) GC (S)
19345736

Sample No :
Sample ID : BH221

19,345,736Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112835-
Date Acquired : 2/20/2019 3:00:34 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

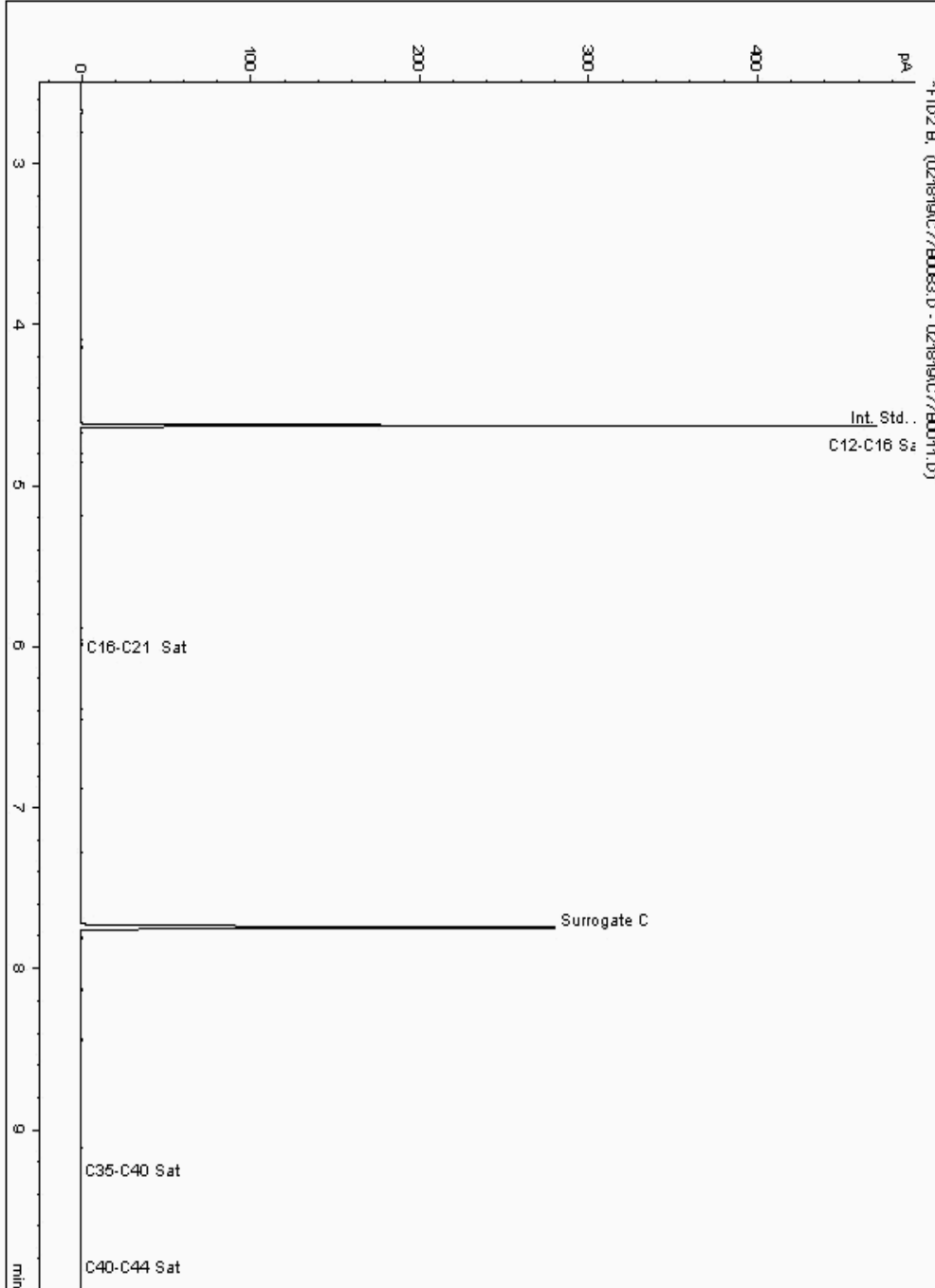
Analysis: EPH CWG (Aliphatic) GC (S)
19345891

Sample No :
Sample ID : BH221

19,345,891 Depth : 6.00 - 7.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111352-
Date Acquired : 2/20/2019 1:19:39 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

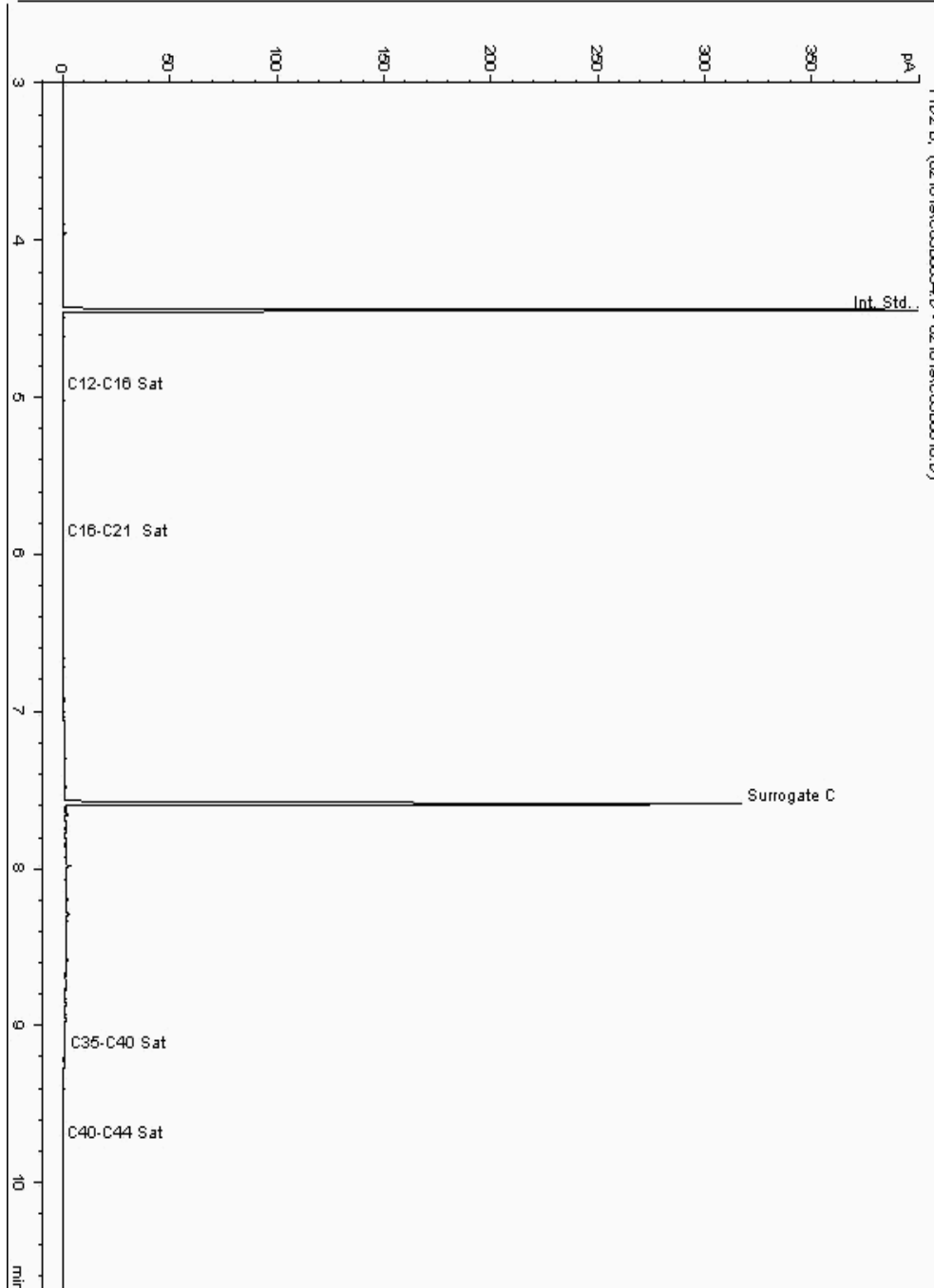
Analysis: EPH CWG (Aliphatic) GC (S)
19345934

Sample No :
Sample ID : BH207

19,345,934 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110210-
Date Acquired : 18/02/2019 20:43:53 PM
Units : ppb
Dilution: BH207[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

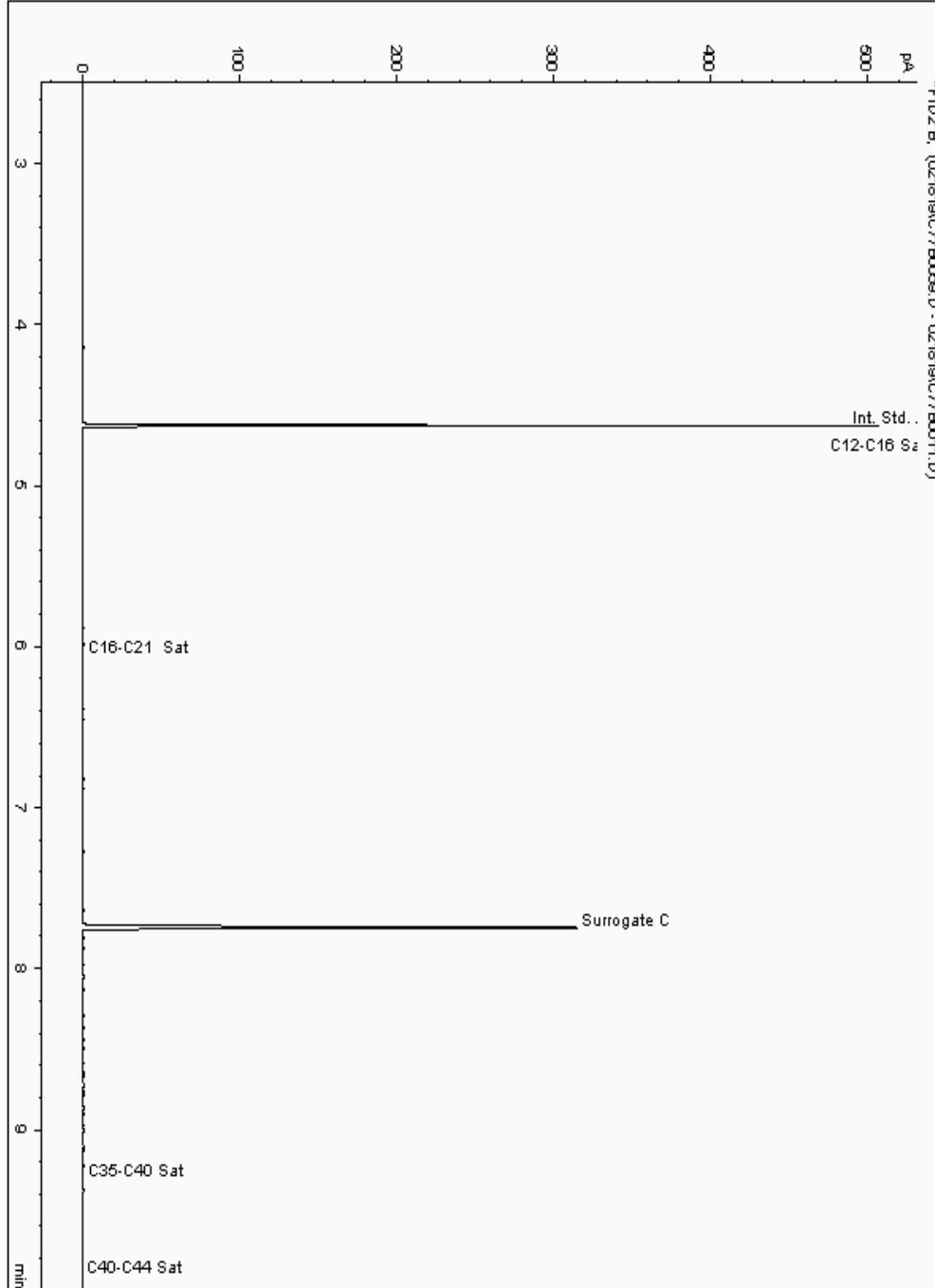
Analysis: EPH CWG (Aliphatic) GC (S)
19345959

Sample No :
Sample ID : BH208

19,345,959 Depth : 7.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110980-
Date Acquired : 2/19/2019 7:21:22 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

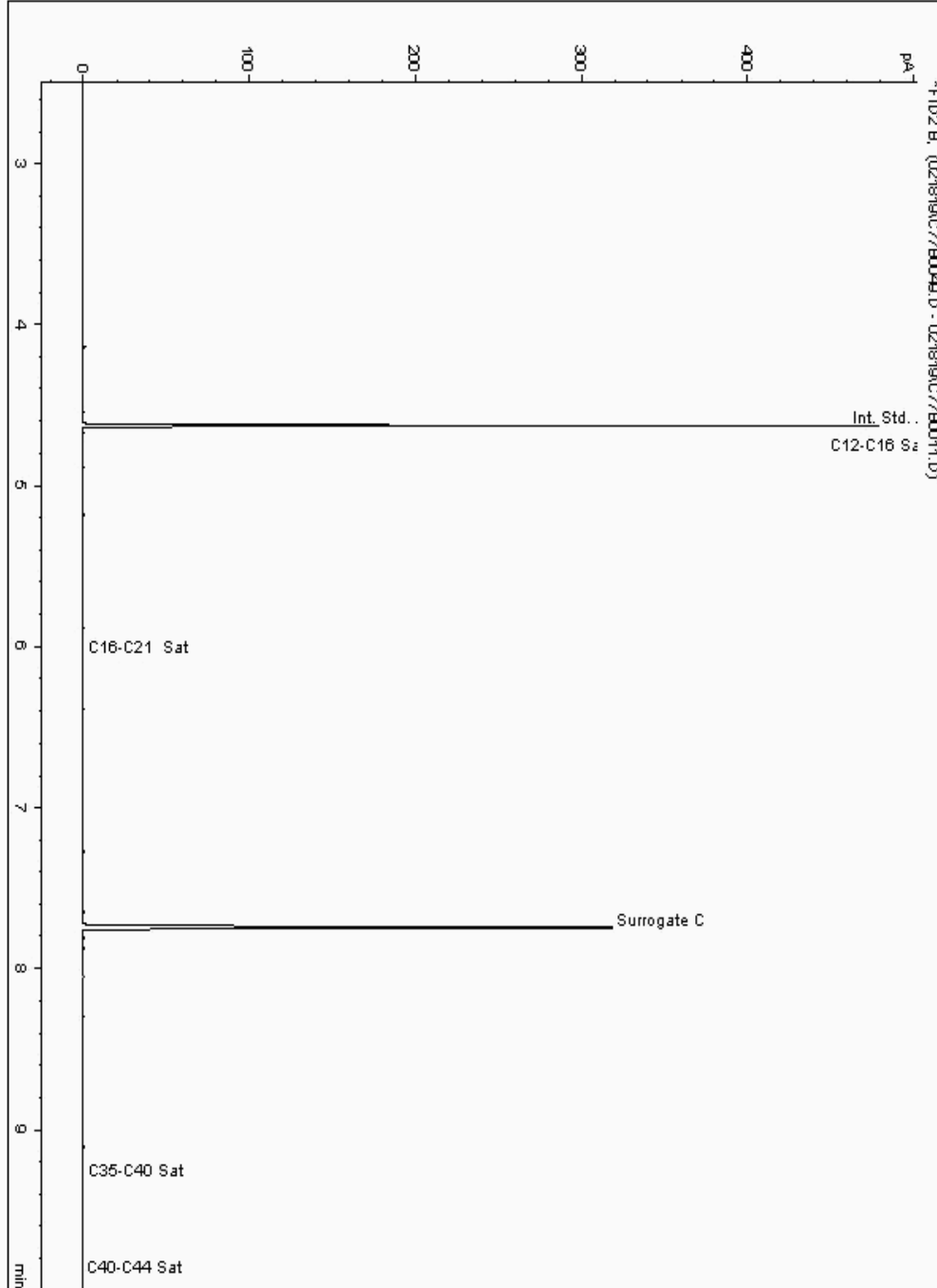
Analysis: EPH CWG (Aliphatic) GC (S)
19346073

Sample No :
Sample ID : BH207

19,346,073 Depth : 11.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110378-
Date Acquired : 2/19/2019 4:17:30 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

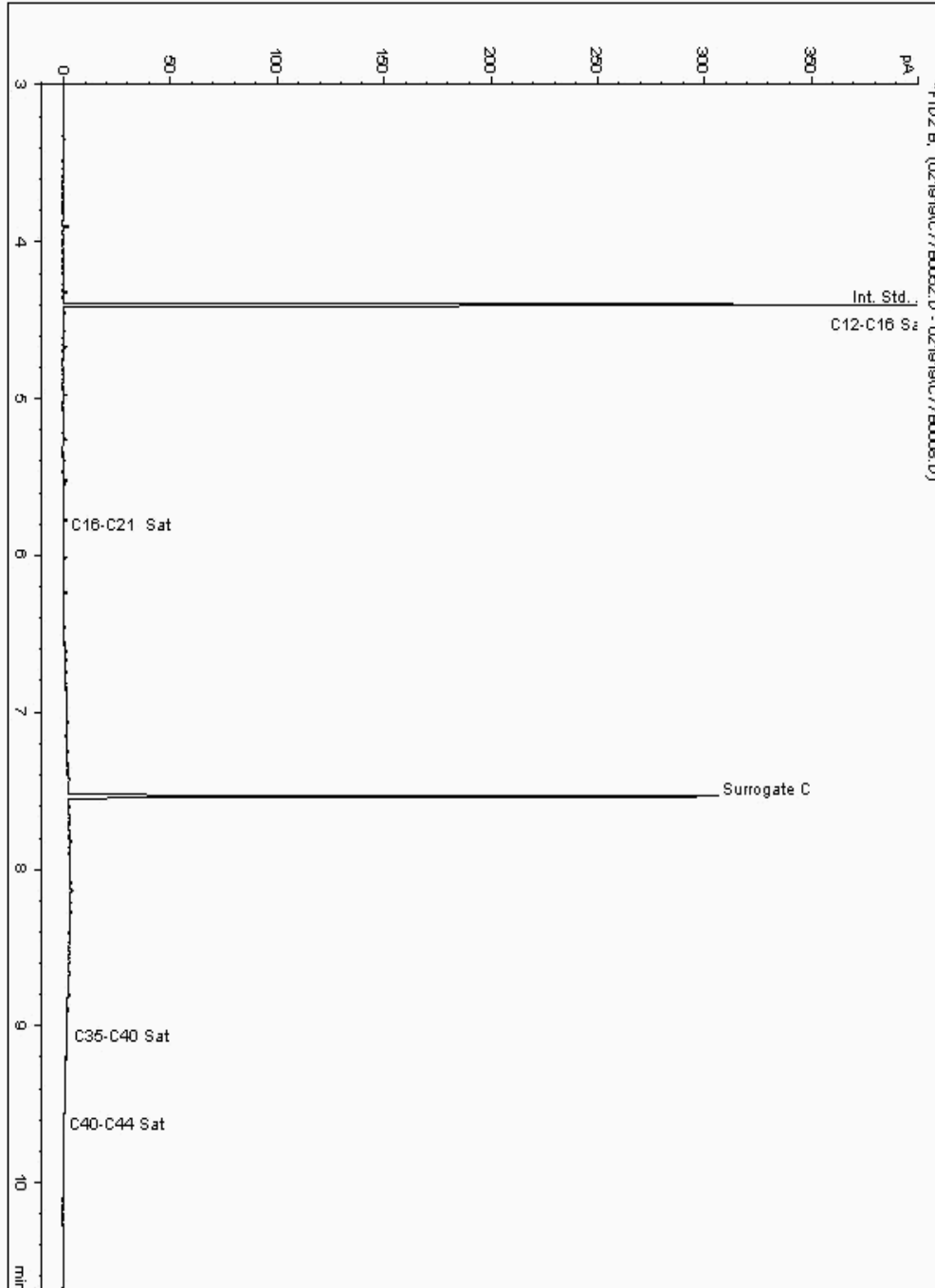
Analysis: EPH CWG (Aliphatic) GC (S)
19346225

Sample No :
Sample ID : BH206

19,346,225 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109857-
Date Acquired : 20/02/2019 02:04:28 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

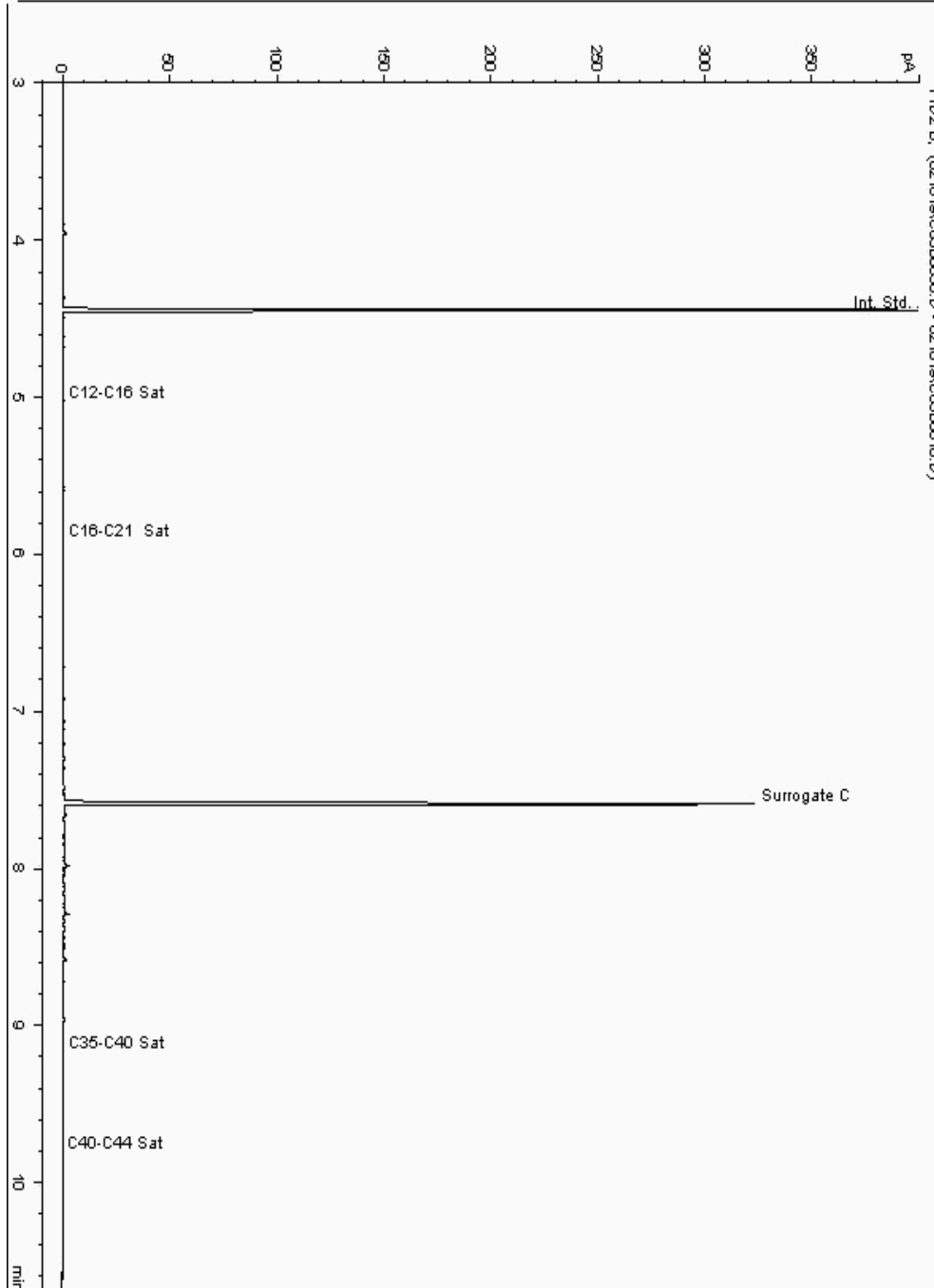
Analysis: EPH CWG (Aliphatic) GC (S)
19346363

Sample No :
Sample ID : BH206

19,346,363 Depth : 7.00 - 8.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109642-
Date Acquired : 18/02/2019 19:30:05 PM
Units : ppb
Dilution: BH206[7.00 - 8.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

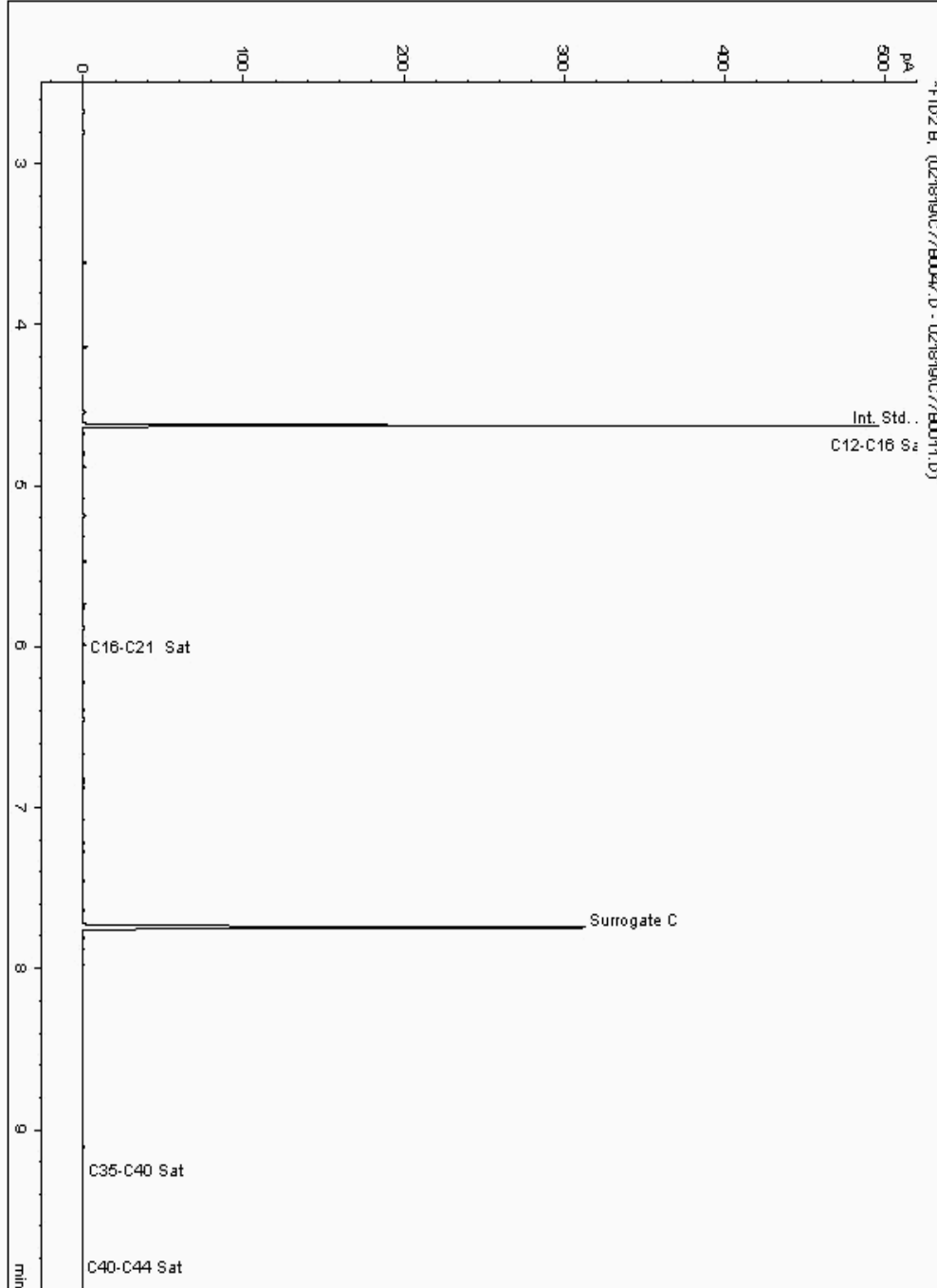
Analysis: EPH CWG (Aliphatic) GC (S)
19346411

Sample No :
Sample ID : BH208

19,346,411 Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111137-
Date Acquired : 2/19/2019 3:37:23 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

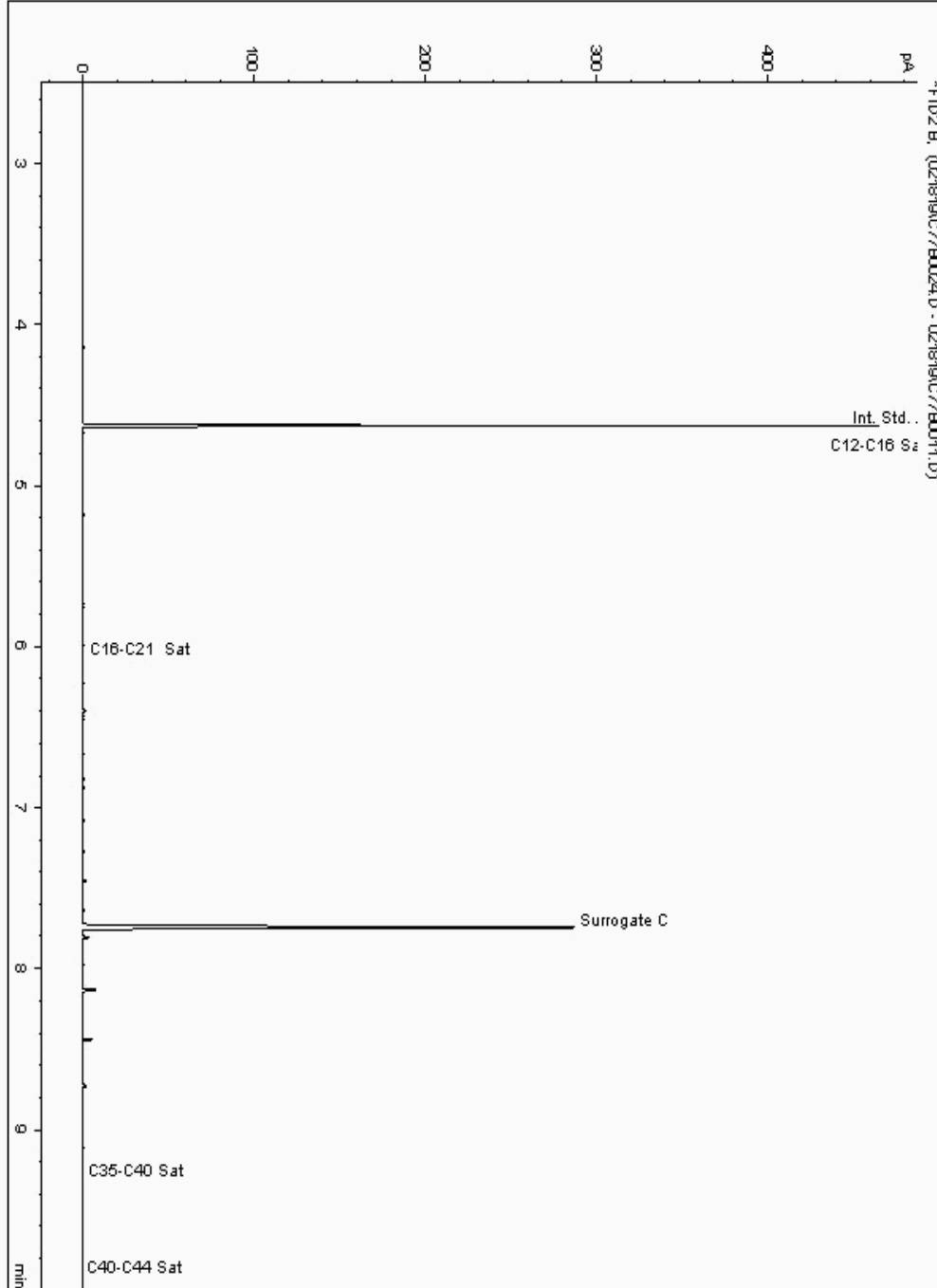
Analysis: EPH CWG (Aliphatic) GC (S)
19346471

Sample No :
Sample ID : BH206

19,346,471 Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109579-
Date Acquired : 2/18/2019 8:39:44 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

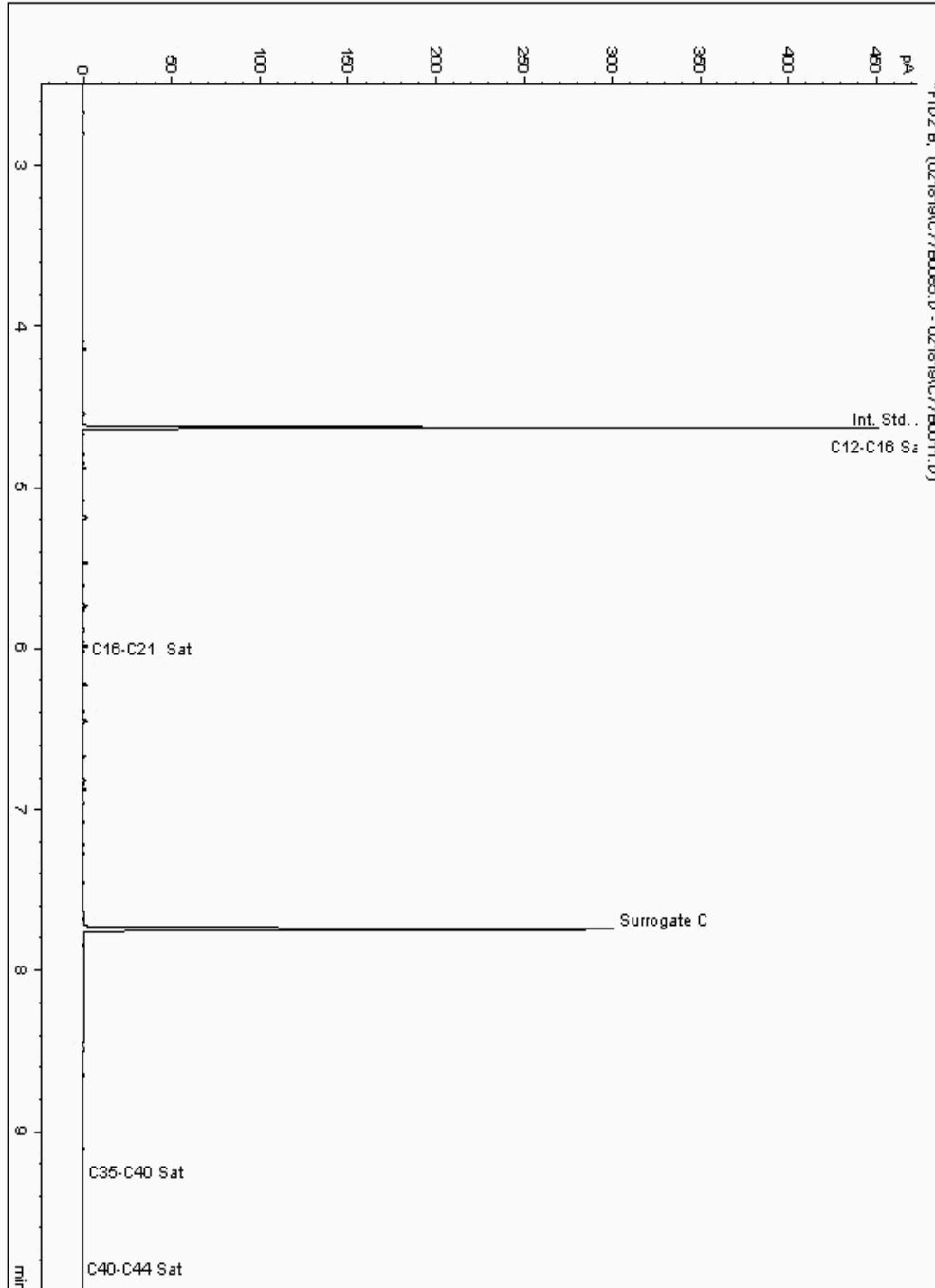
Analysis: EPH CWG (Aliphatic) GC (S)
19346478

Sample No :
Sample ID : BH220

19,346,478 Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111549-
Date Acquired : 2/20/2019 2:00:05 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

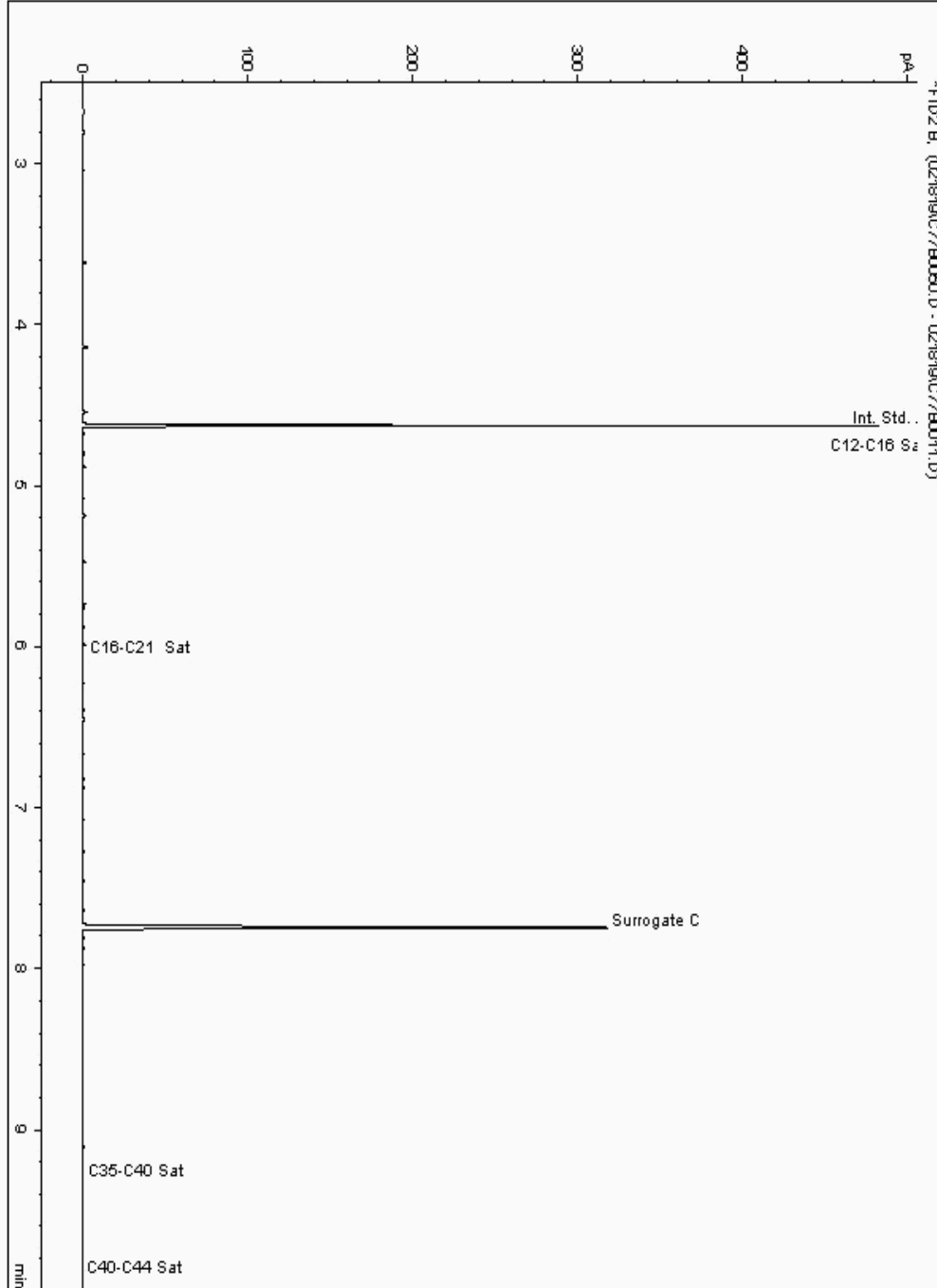
Analysis: EPH CWG (Aliphatic) GC (S)
19346596

Sample No :
Sample ID : BH208

19,346,596 Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111089-
Date Acquired : 2/19/2019 4:37:33 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

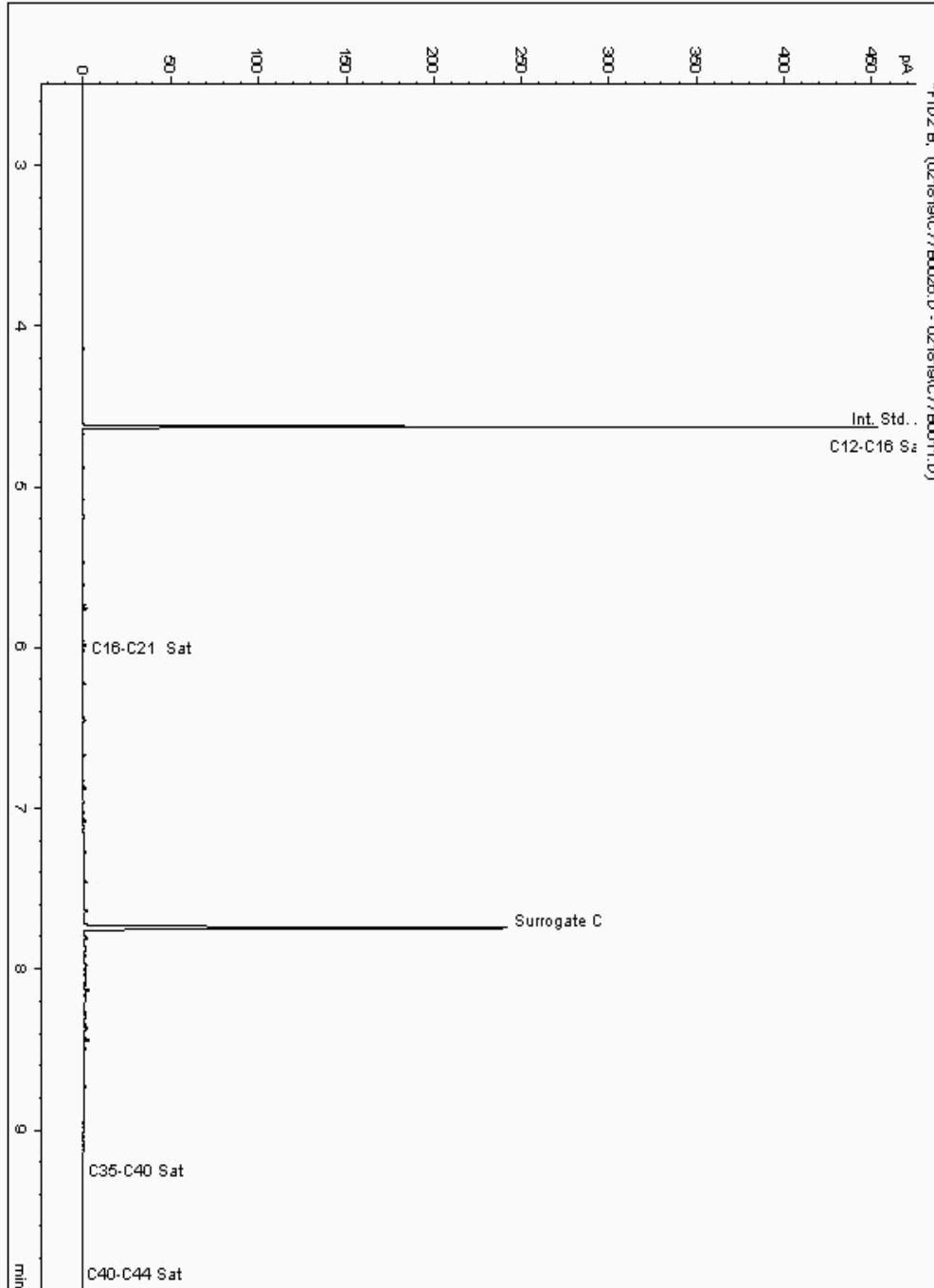
Analysis: EPH CWG (Aliphatic) GC (S)
19346632

Sample No :
Sample ID : BH208

19,346,632Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110664-
Date Acquired : 2/18/2019 9:19:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

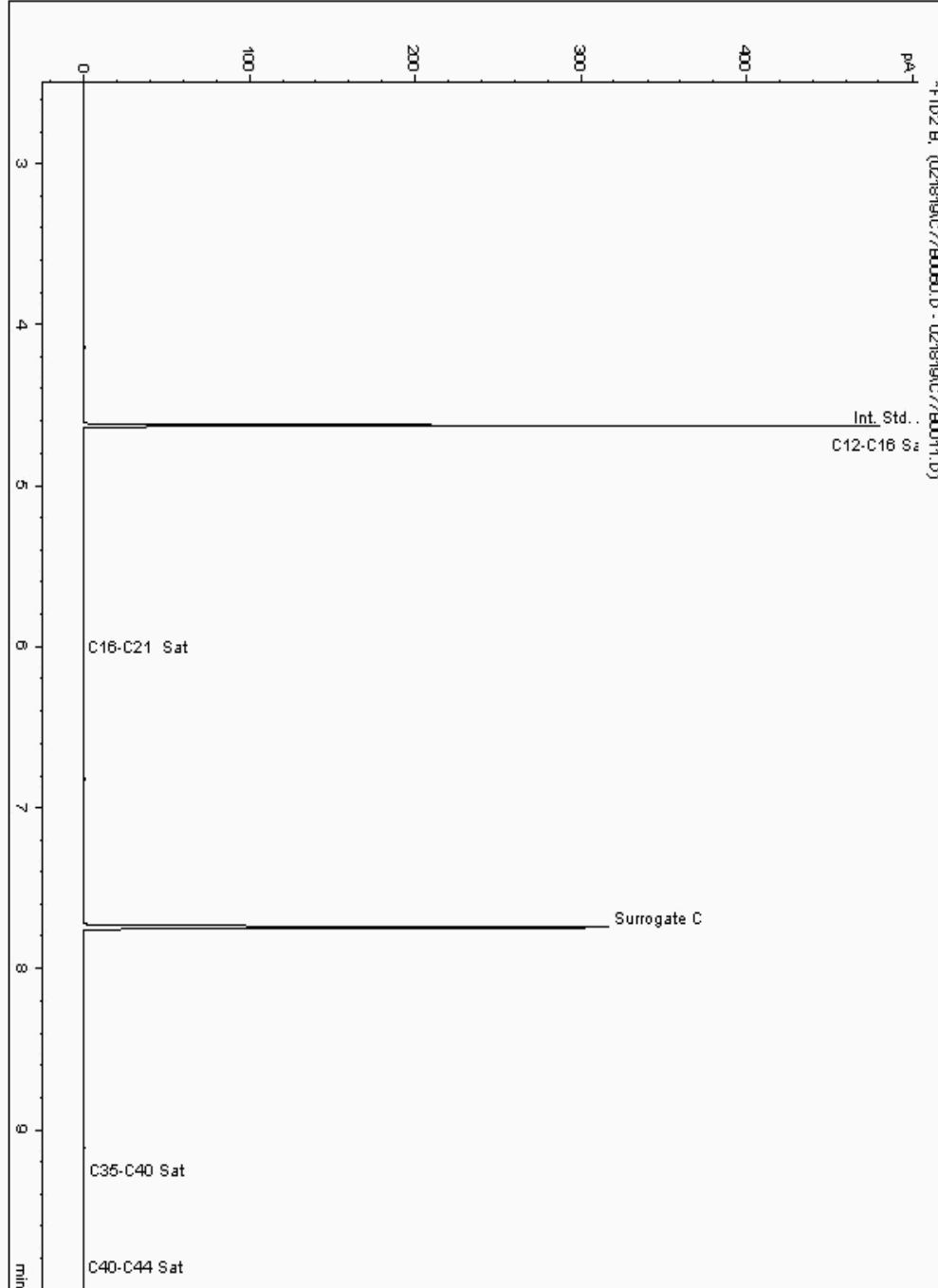
Analysis: EPH CWG (Aliphatic) GC (S)
19346674

Sample No :
Sample ID : BH221

19,346,674 Depth : 8.00 - 9.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111382-
Date Acquired : 2/19/2019 7:41:18 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

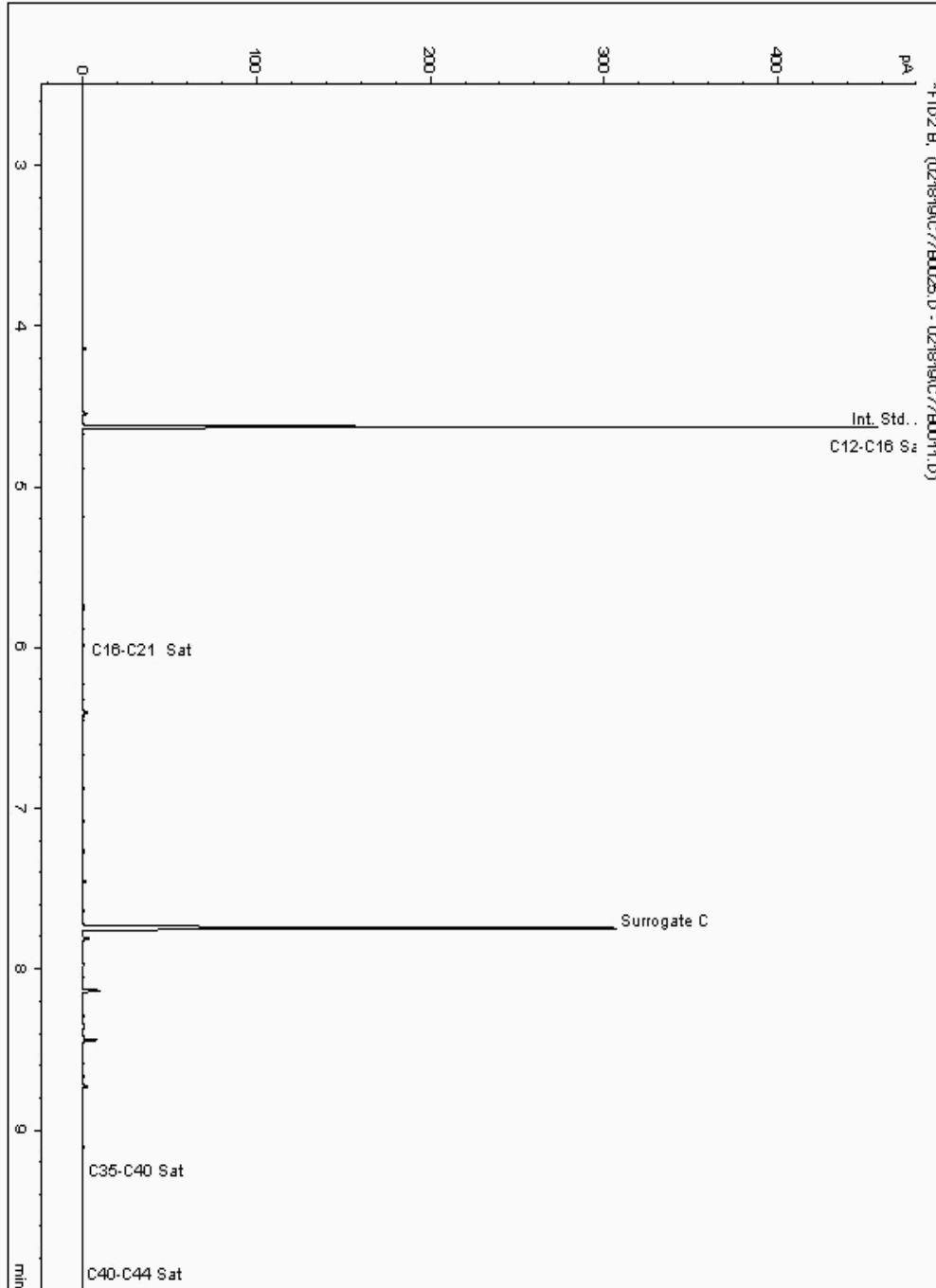
Analysis: EPH CWG (Aliphatic) GC (S)
19346733

Sample No :
Sample ID : BH206

19,346,733 Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109554-
Date Acquired : 2/18/2019 8:59:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

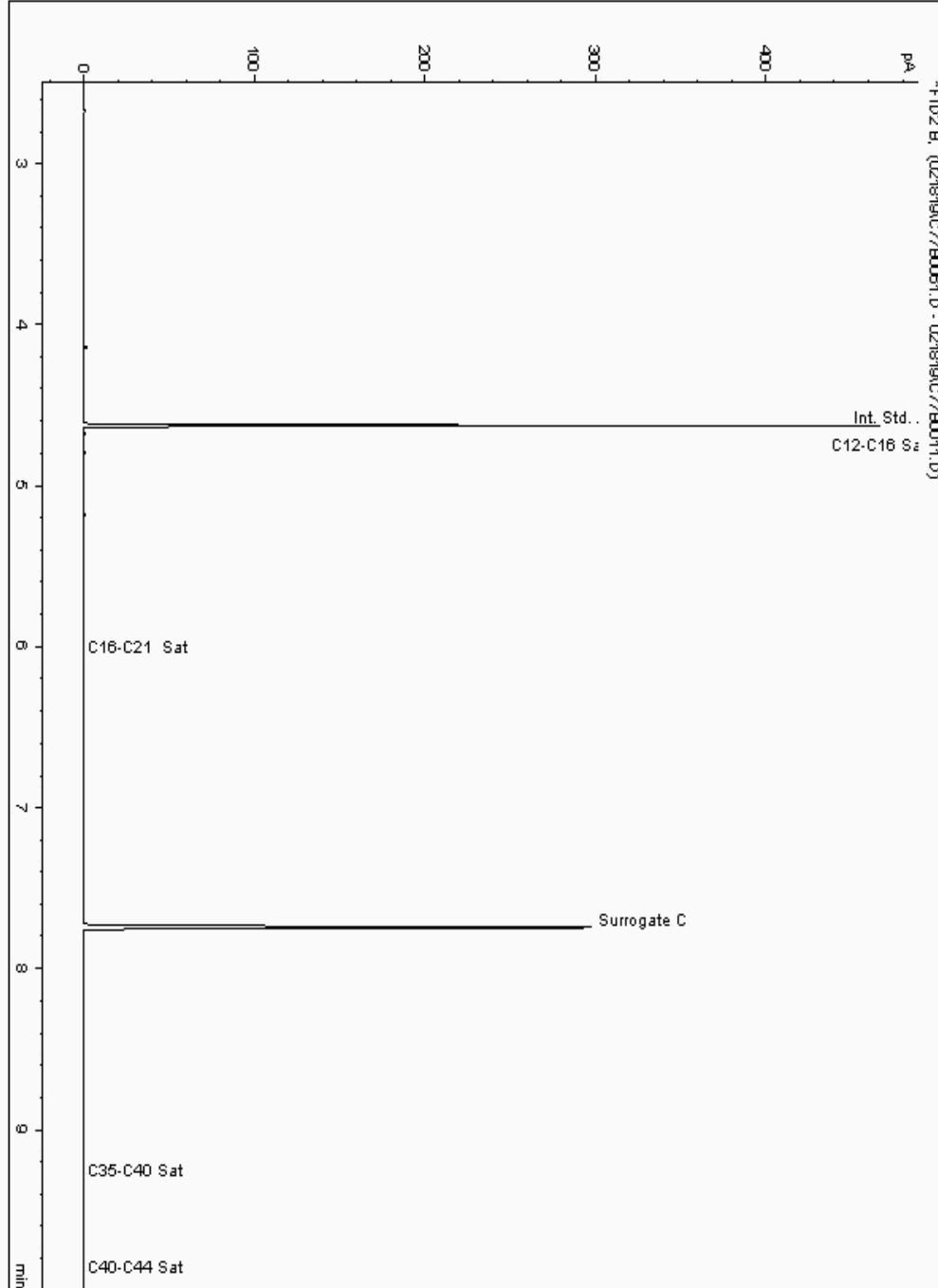
Analysis: EPH CWG (Aliphatic) GC (S)
19346735

Sample No :
Sample ID : BH206

19,346,735 Depth : 11.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109710-
Date Acquired : 2/19/2019 8:01:14 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

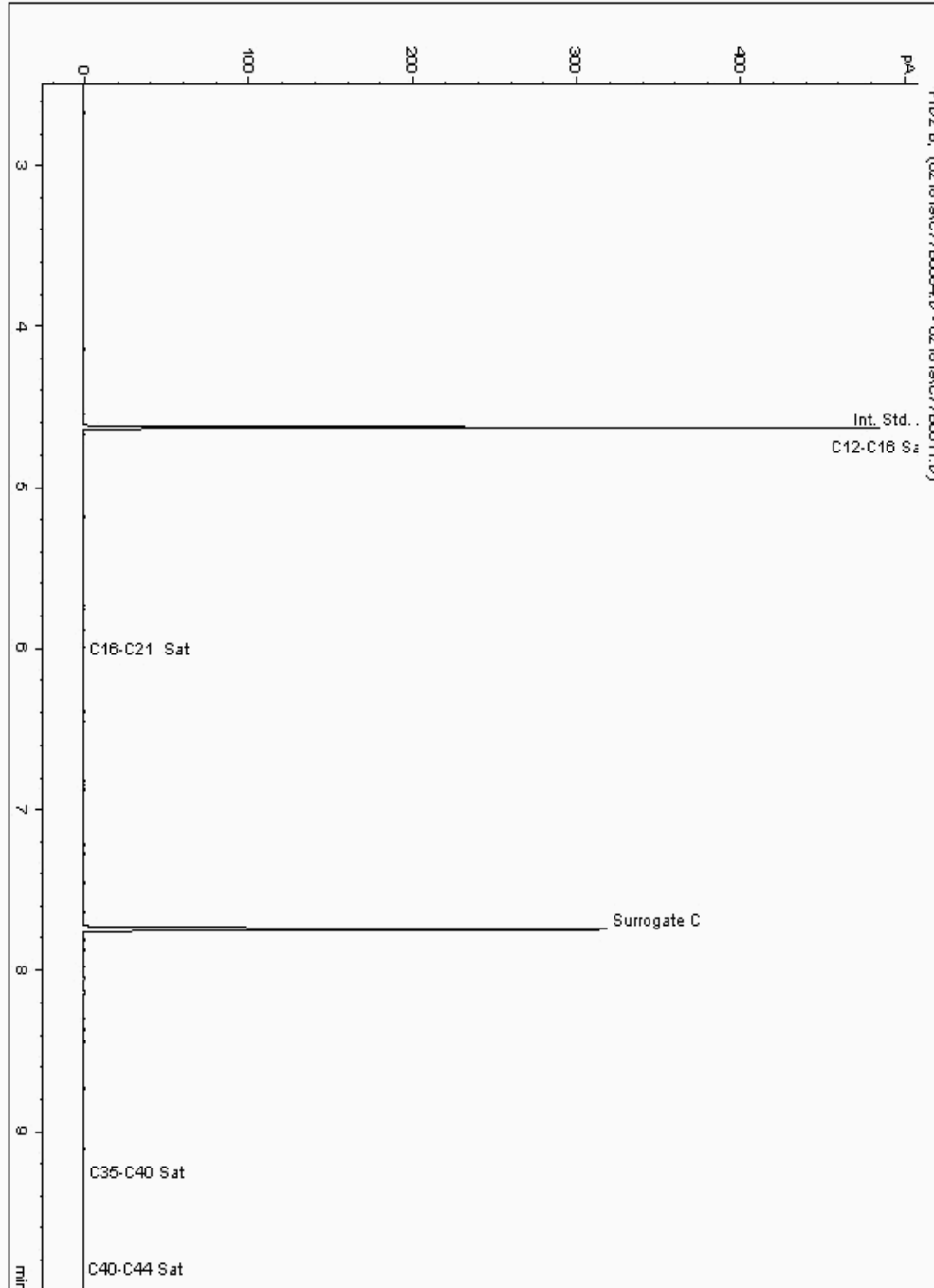
Analysis: EPH CWG (Aliphatic) GC (S)
19346746

Sample No :
Sample ID : BH220

19,346,746 Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111628-
Date Acquired : 2/20/2019 1:39:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

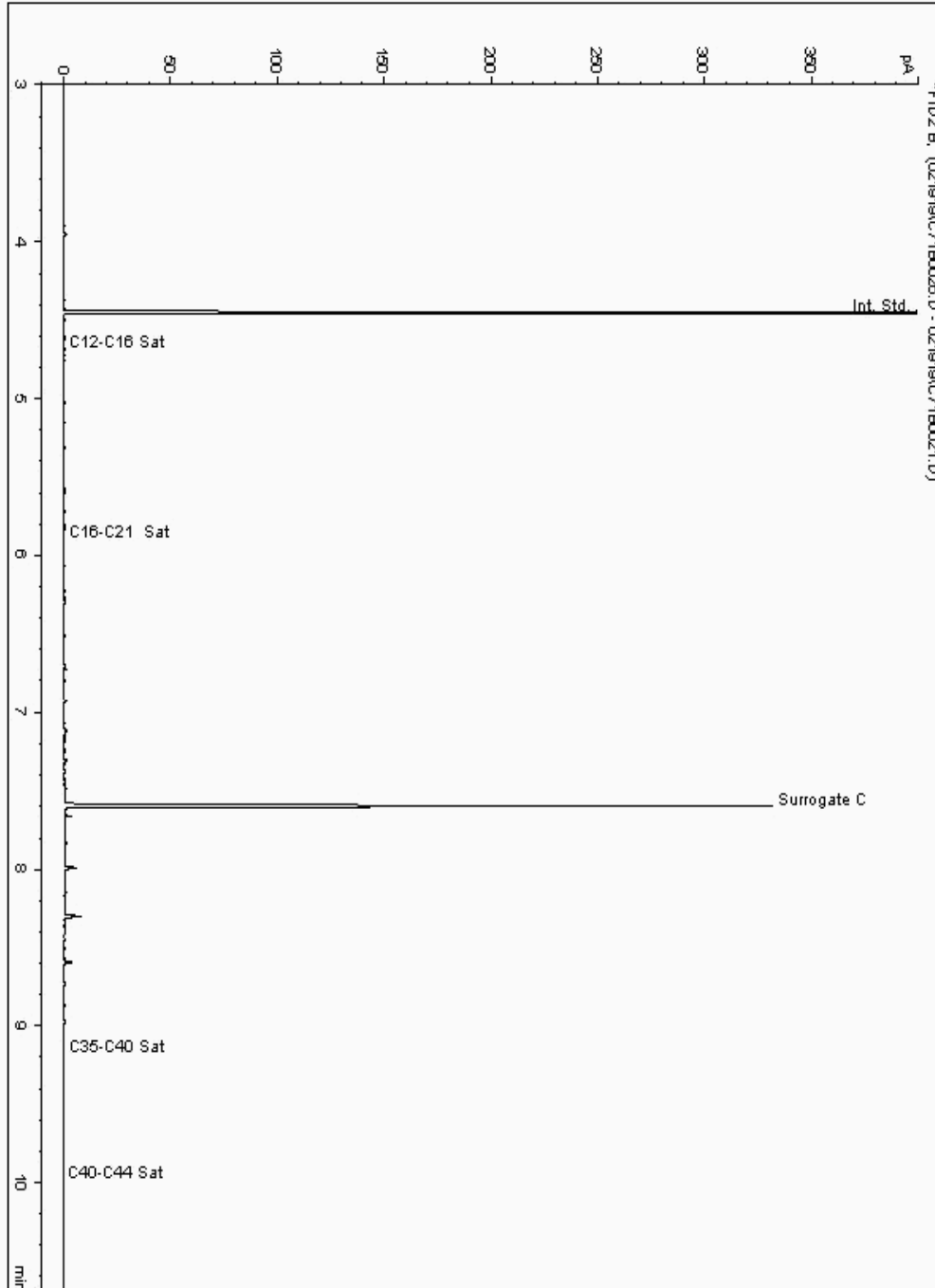
Analysis: EPH CWG (Aliphatic) GC (S)
19346792

Sample No :
Sample ID : BH221

19,346,792 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111249-
Date Acquired : 19/02/2019 19:03:32 PM
Units : ppb
Dilution: BH221[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

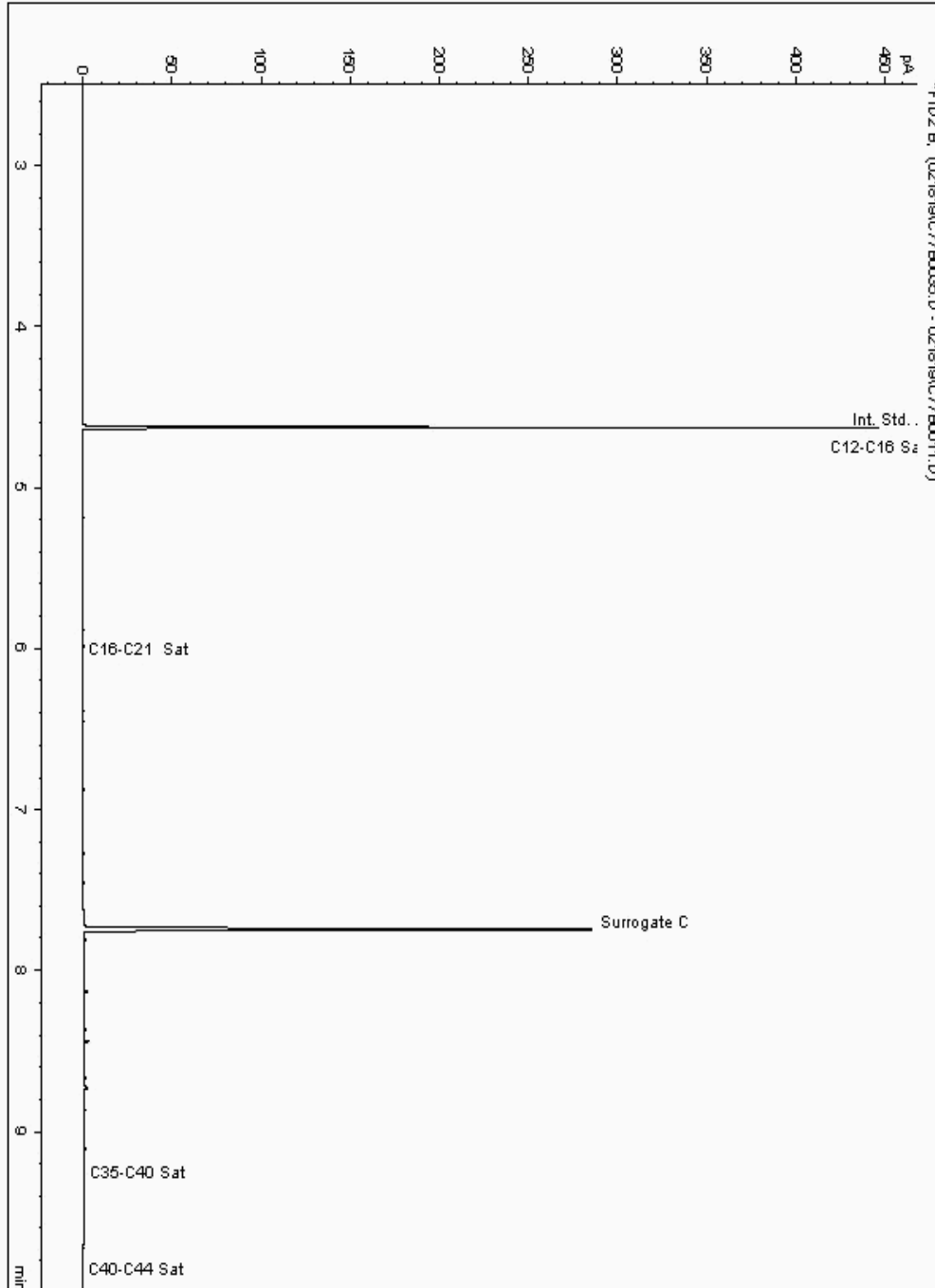
Analysis: EPH CWG (Aliphatic) GC (S)
19346814

Sample No :
Sample ID : BH208

19,346,814 Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110801-
Date Acquired : 2/18/2019 11:55:51 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

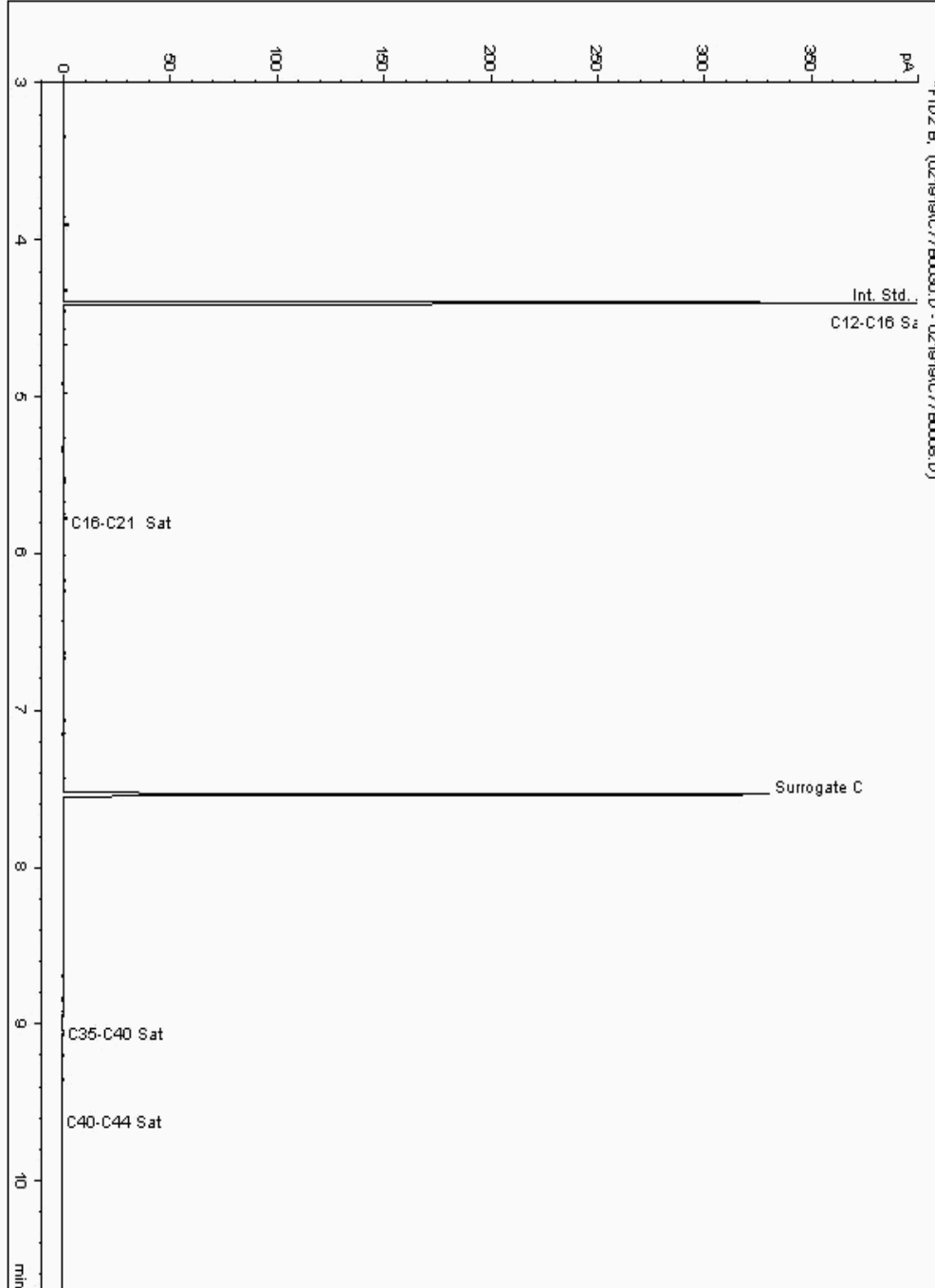
Analysis: EPH CWG (Aliphatic) GC (S)
19346847

Sample No :
Sample ID : BH207

19,346,847 Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110619-
Date Acquired : 19/02/2019 19:19:48 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

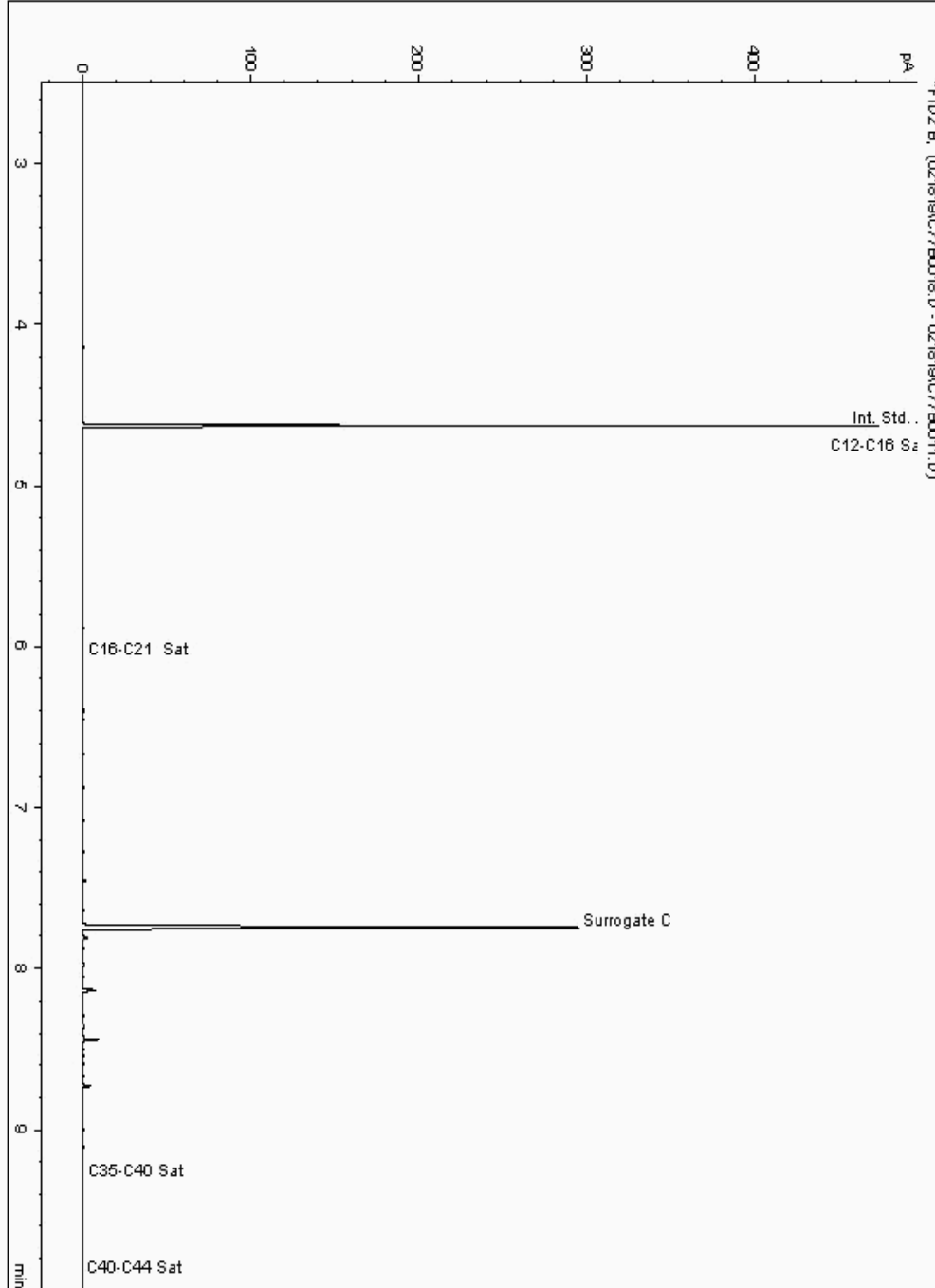
Analysis: EPH CWG (Aliphatic) GC (S)
19346911

Sample No :
Sample ID : BH206

19,346,911 Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109502-
Date Acquired : 2/18/2019 6:56:16 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

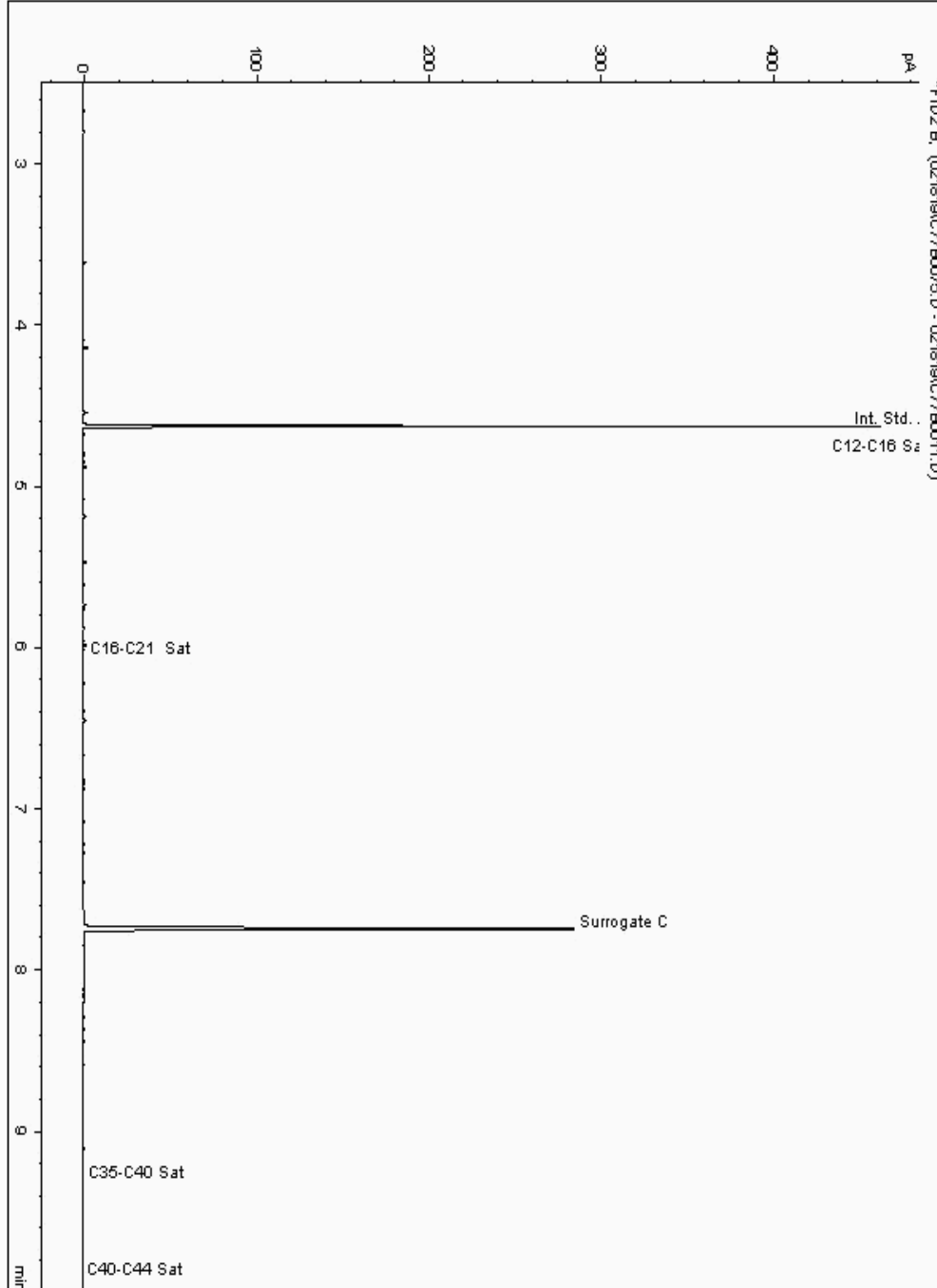
Analysis: EPH CWG (Aliphatic) GC (S)
19346919

Sample No :
Sample ID : BH208

19,346,919 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111223-
Date Acquired : 2/20/2019 10:55:31 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

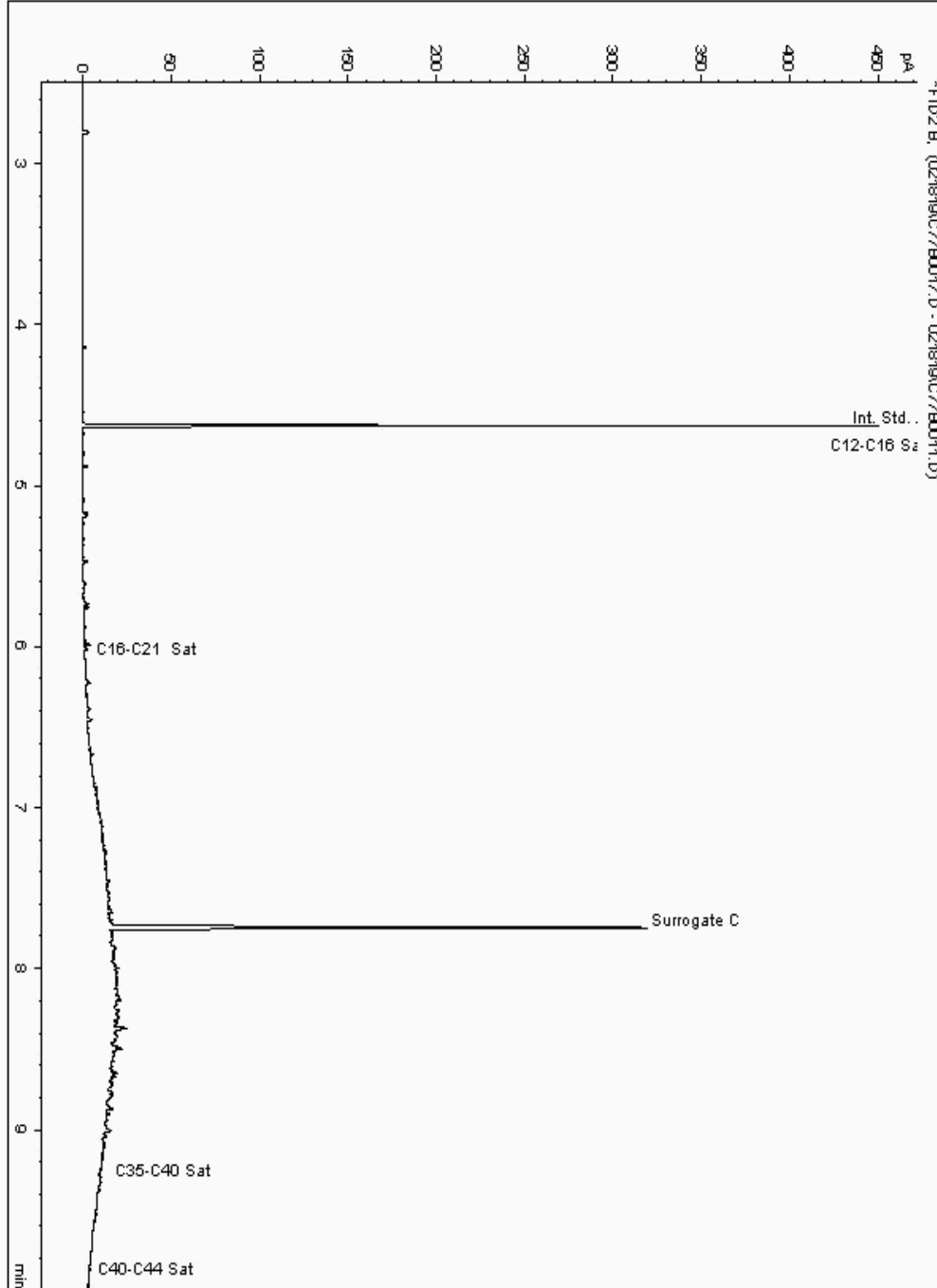
Analysis: EPH CWG (Aliphatic) GC (S)
19346951

Sample No :
Sample ID : BH220

19,346,951 Depth : 0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111574-
Date Acquired : 2/18/2019 6:36:17 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

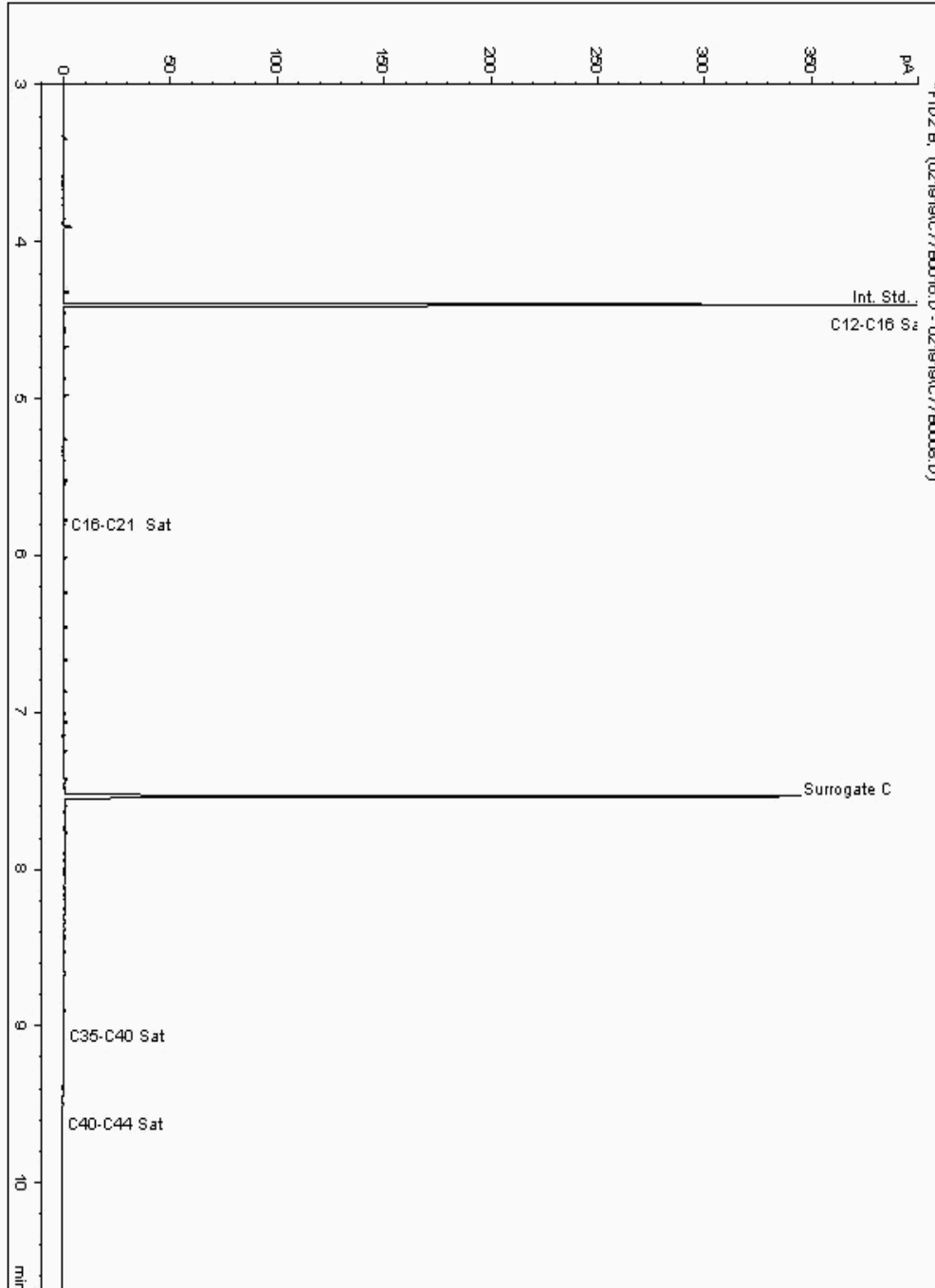
Analysis: EPH CWG (Aliphatic) GC (S)
19346957

Sample No :
Sample ID : BH207

19,346,957 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110527-
Date Acquired : 19/02/2019 14:45:06 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

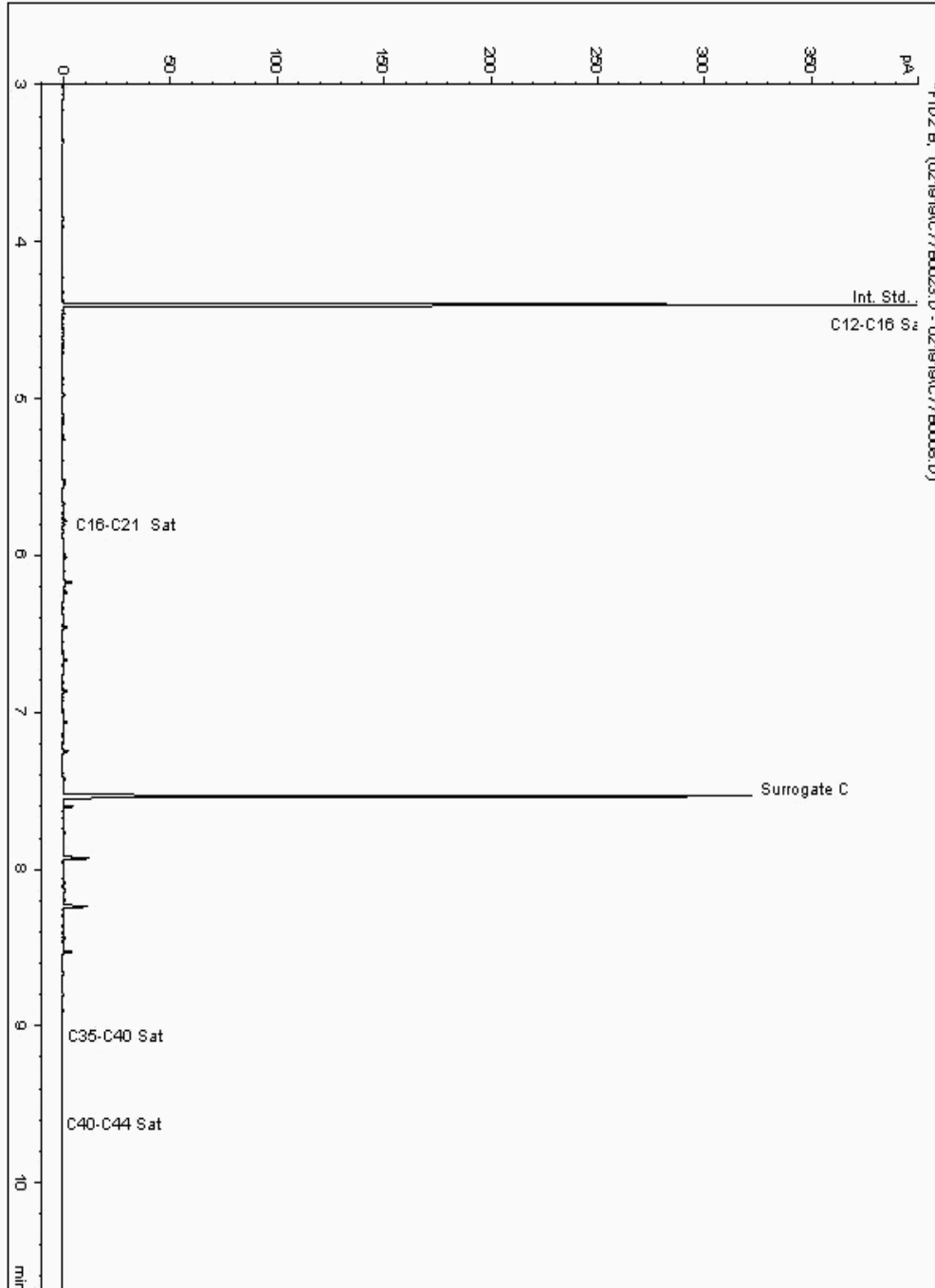
Analysis: EPH CWG (Aliphatic) GC (S)
19347051

Sample No :
Sample ID : BH207

19,347,051 Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112811-
Date Acquired : 19/02/2019 17:06:45 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

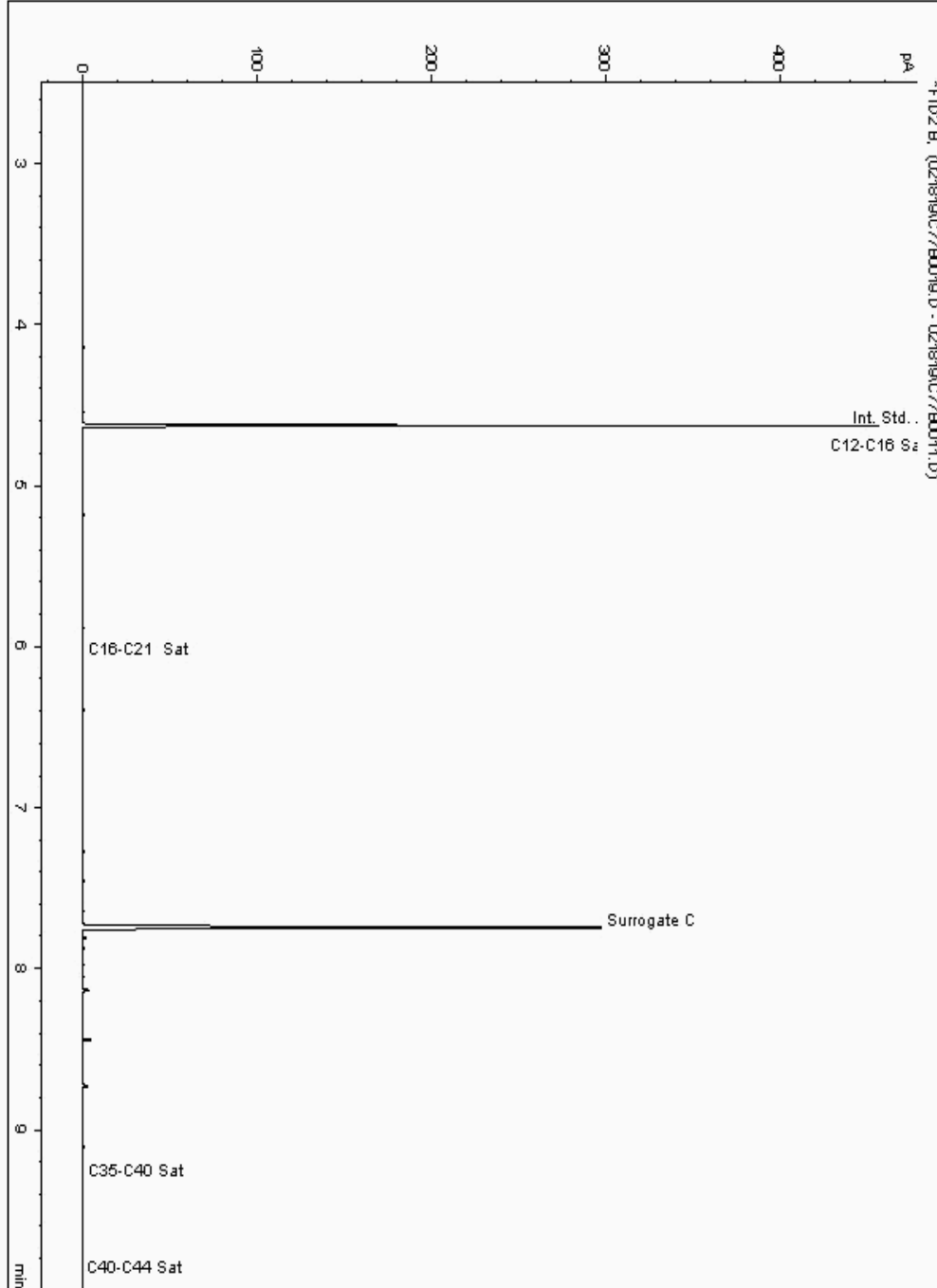
Analysis: EPH CWG (Aliphatic) GC (S)
19347138

Sample No :
Sample ID : BH221

19,347,138Depth :3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111297-
Date Acquired : 2/18/2019 7:16:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

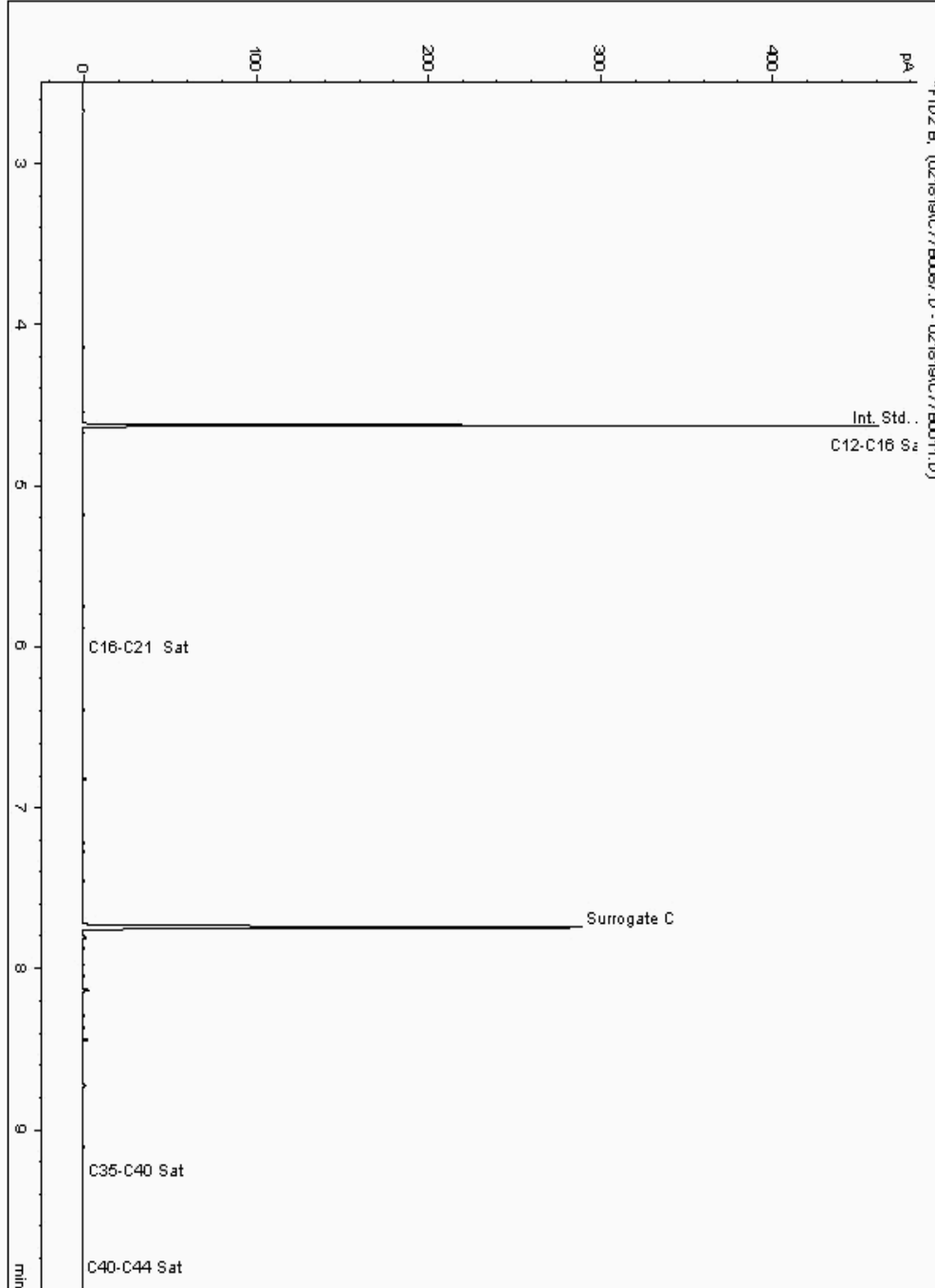
Analysis: EPH CWG (Aliphatic) GC (S)
19347177

Sample No :
Sample ID : BH207

19,347,177Depth :6.00 - 7.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110282-
Date Acquired : 2/20/2019 2:40:26 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.050





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

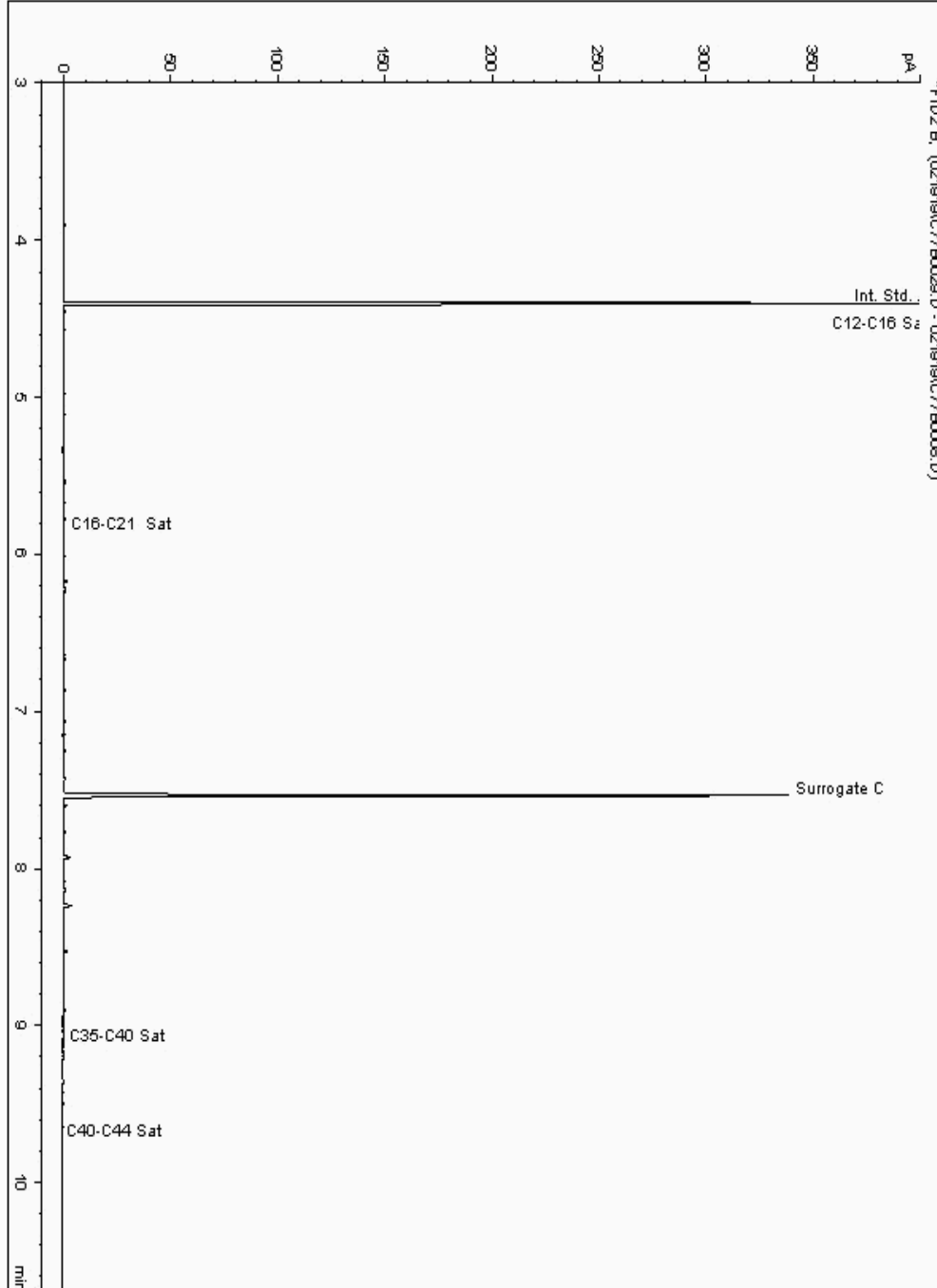
Analysis: EPH CWG (Aliphatic) GC (S)
19347236

Sample No :
Sample ID : BH208

19,347,236 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110875-
Date Acquired : 19/02/2019 18:59:24 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

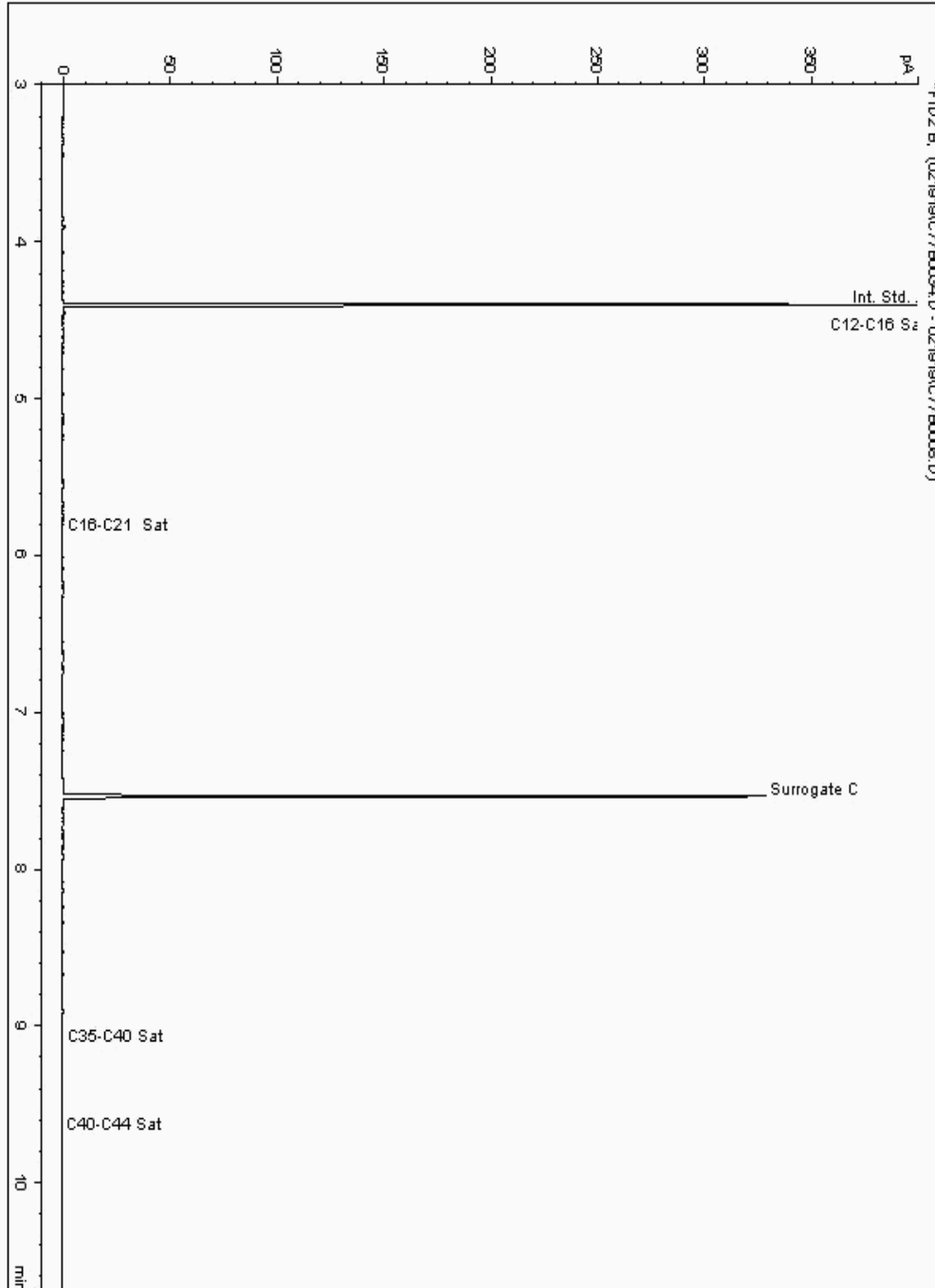
Analysis: EPH CWG (Aliphatic) GC (S)
19347300

Sample No :
Sample ID : BH207

19,347,300 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110313-
Date Acquired : 19/02/2019 20:40:17 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

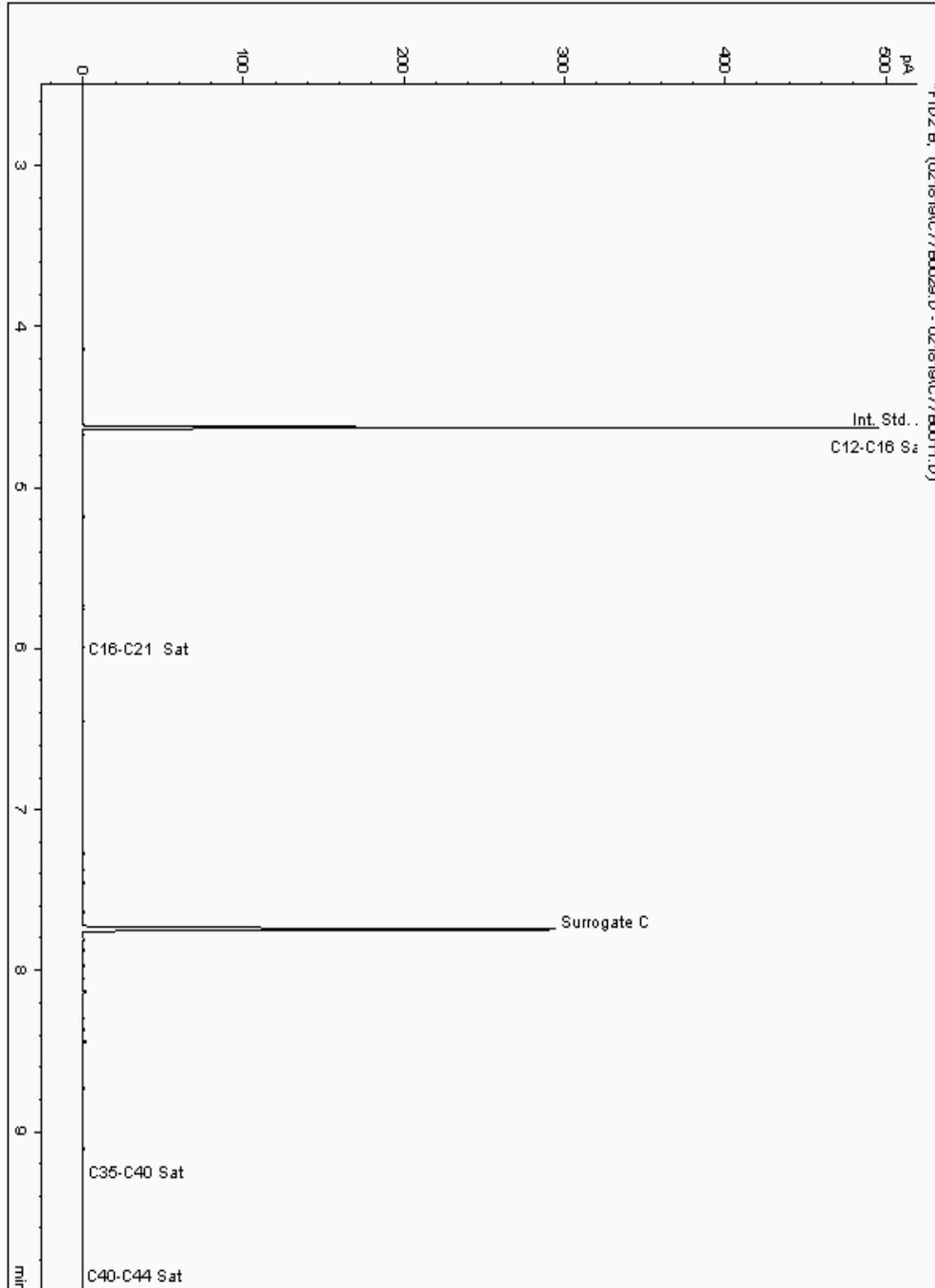
Analysis: EPH CWG (Aliphatic) GC (S)
19347411

Sample No :
Sample ID : BH208

19,347,411 Depth : 0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110709-
Date Acquired : 2/18/2019 10:03:20 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

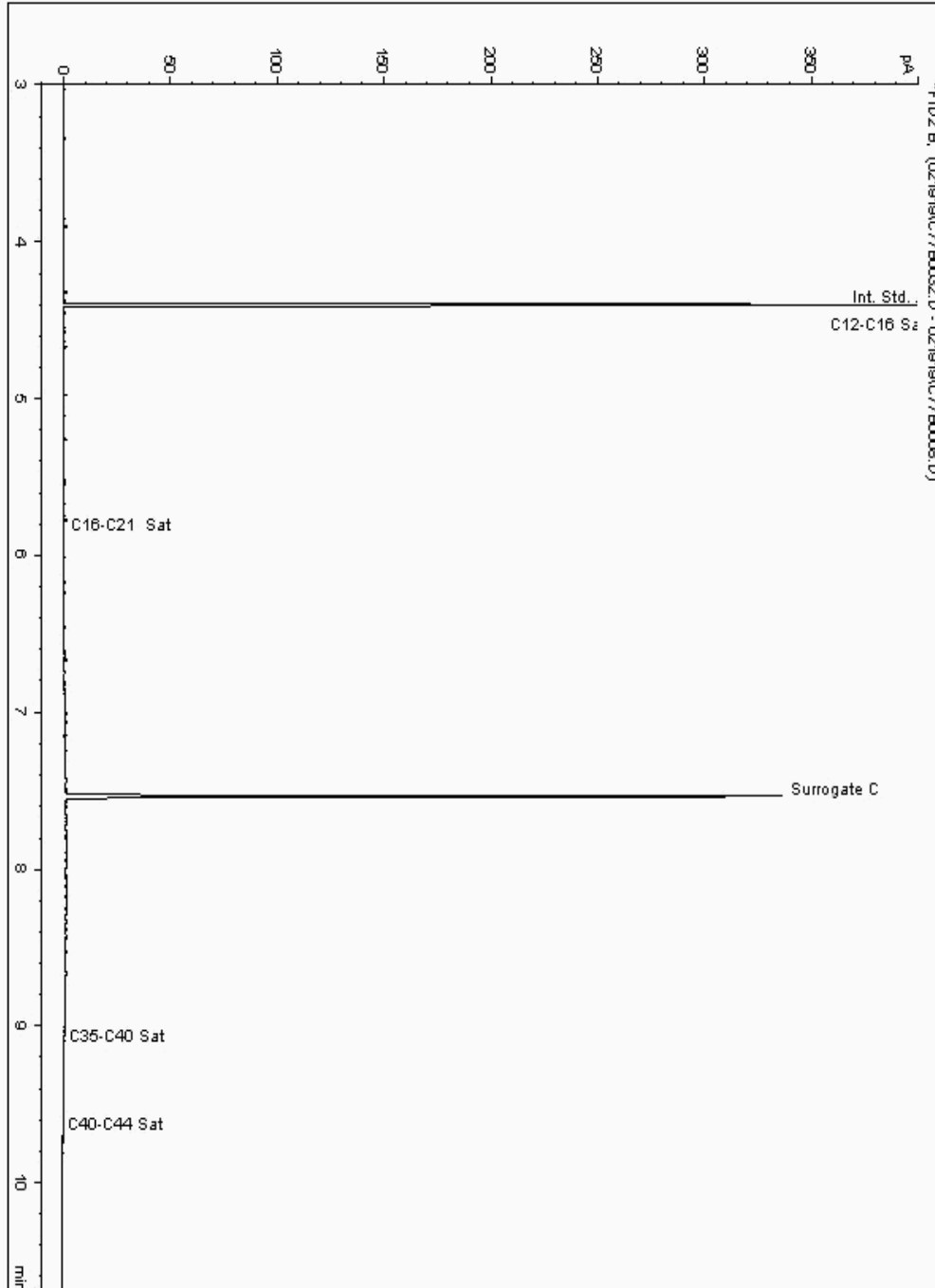
Analysis: EPH CWG (Aliphatic) GC (S)
19347428

Sample No :
Sample ID : BH207

19,347,428 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110462-
Date Acquired : 19/02/2019 19:59:58 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

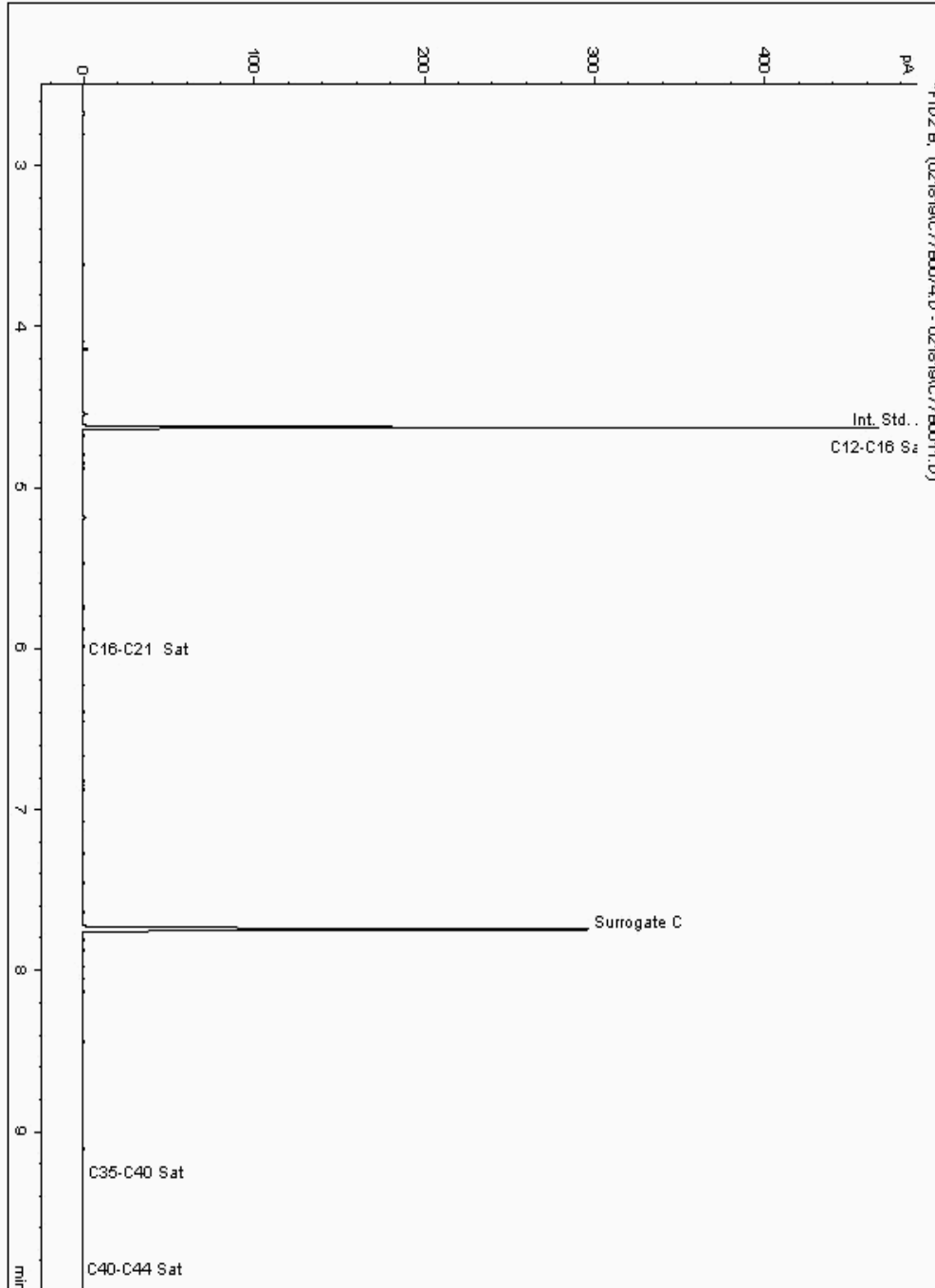
Analysis: EPH CWG (Aliphatic) GC (S)
19347476

Sample No :
Sample ID : BH207

19,347,476 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110569-
Date Acquired : 2/20/2019 10:35:19 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.050





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

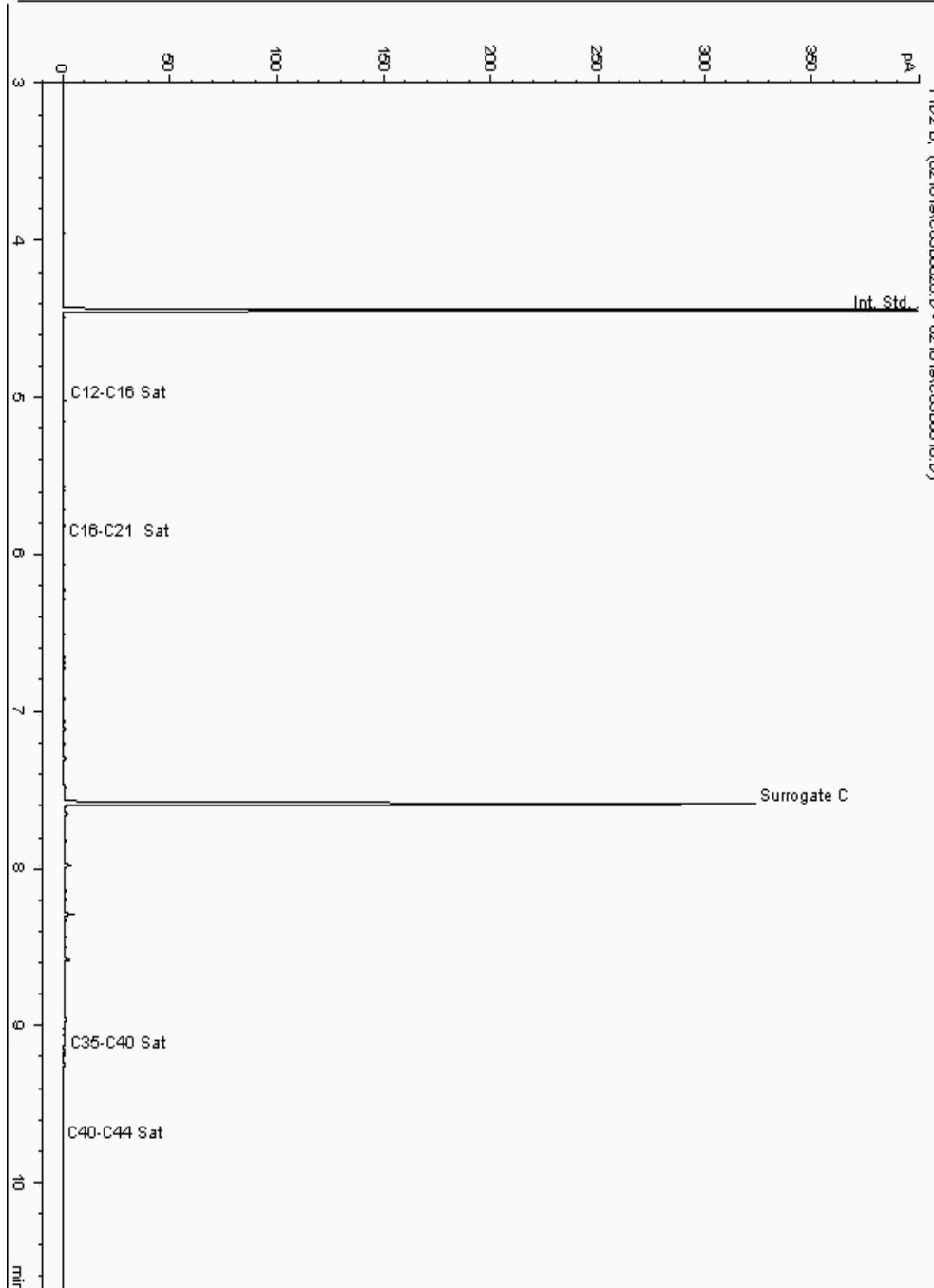
Analysis: EPH CWG (Aliphatic) GC (S)
19347525

Sample No :
Sample ID : BH206

19,347,525 Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109480-
Date Acquired : 18/02/2019 16:37:50 PM
Units : ppb
Dilution: BH206[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

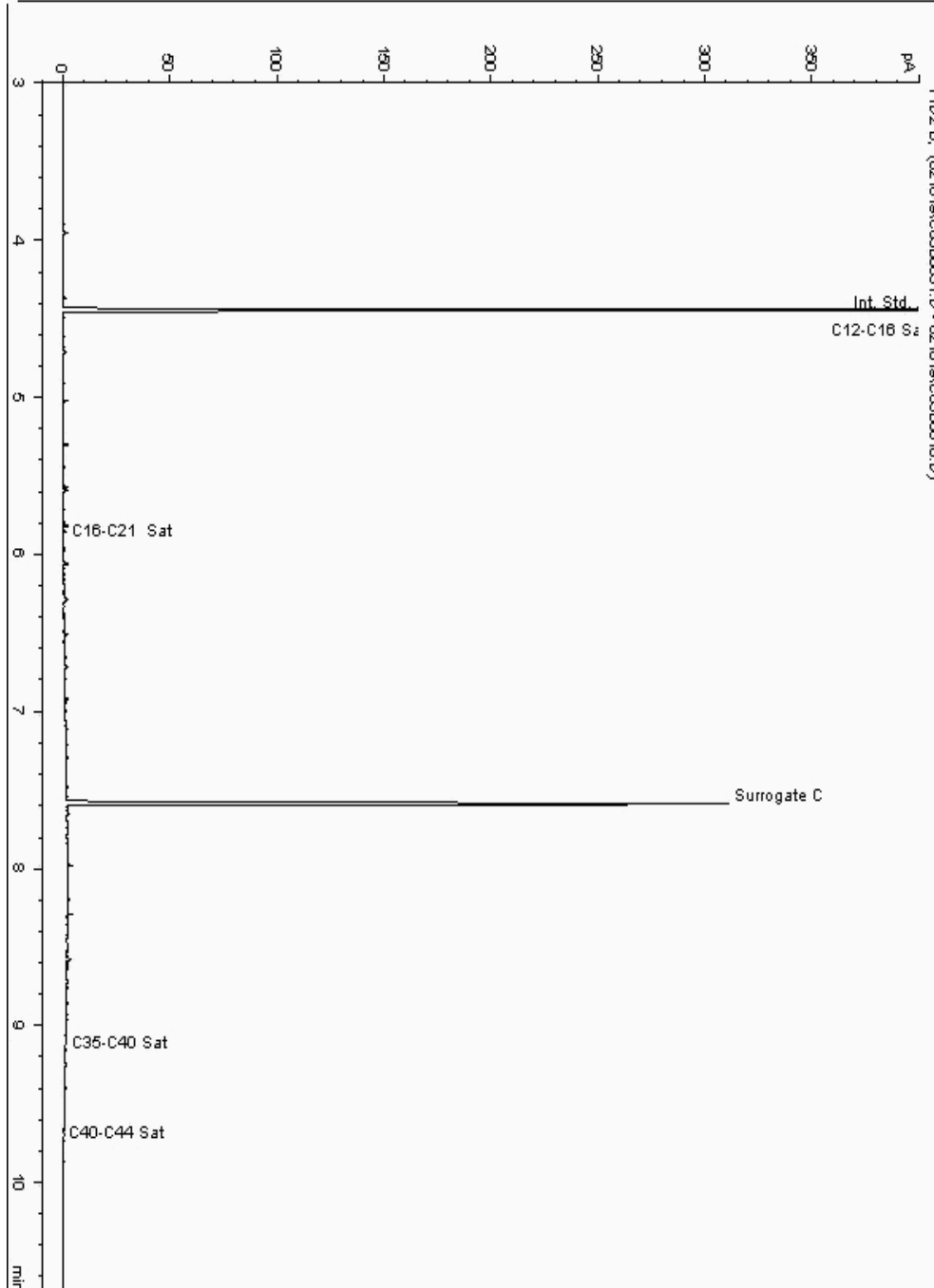
Analysis: EPH CWG (Aliphatic) GC (S)
19347604

Sample No :
Sample ID : BH207

19,347,604 Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110049-
Date Acquired : 18/02/2019 19:50:38 PM
Units : ppb
Dilution: BH207[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

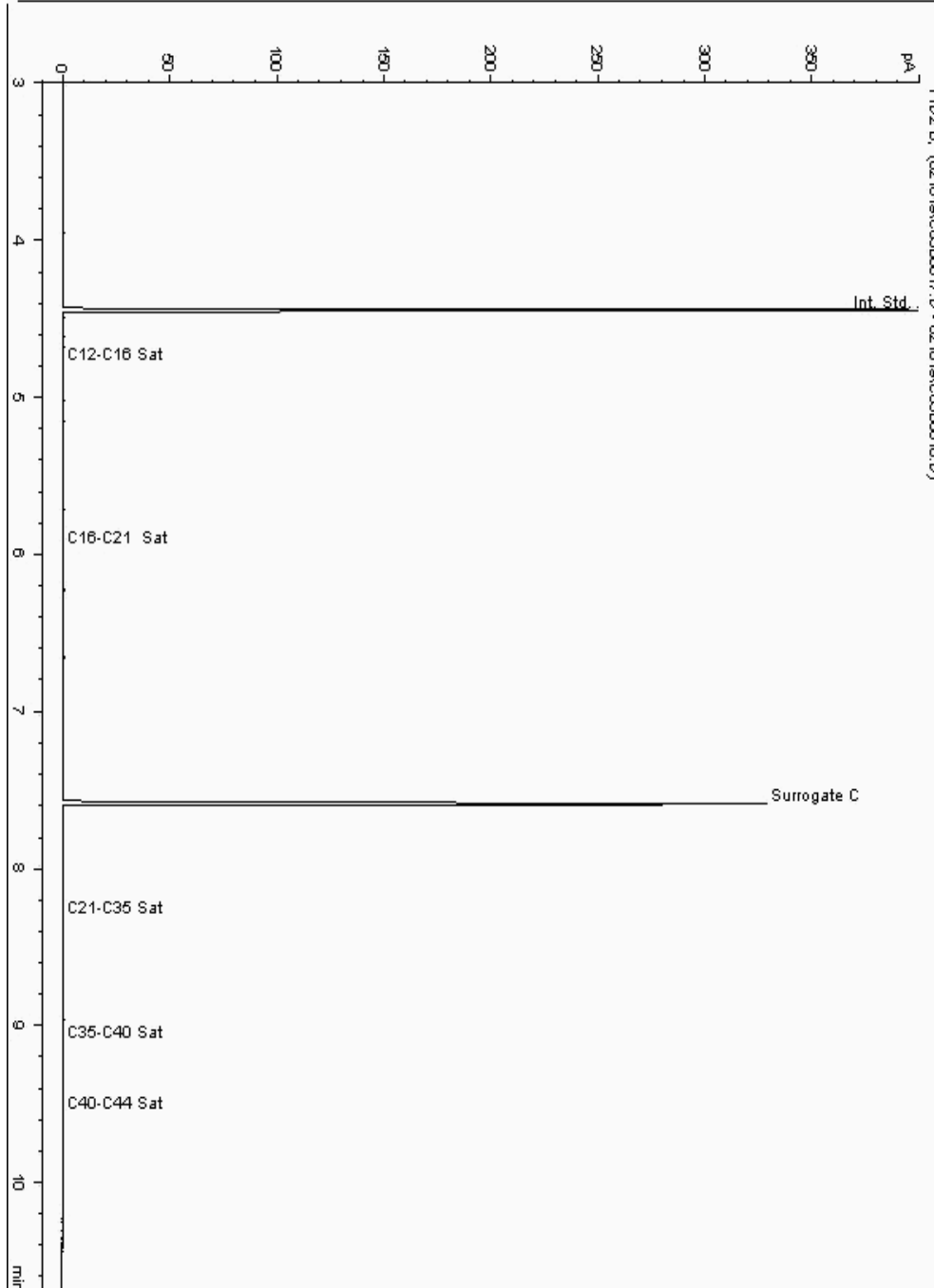
Analysis: EPH CWG (Aliphatic) GC (S)
19347605

Sample No :
Sample ID : BH206

19,347,605 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109665-
Date Acquired : 18/02/2019 15:36:15 PM
Units : ppb
Dilution: BH206[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

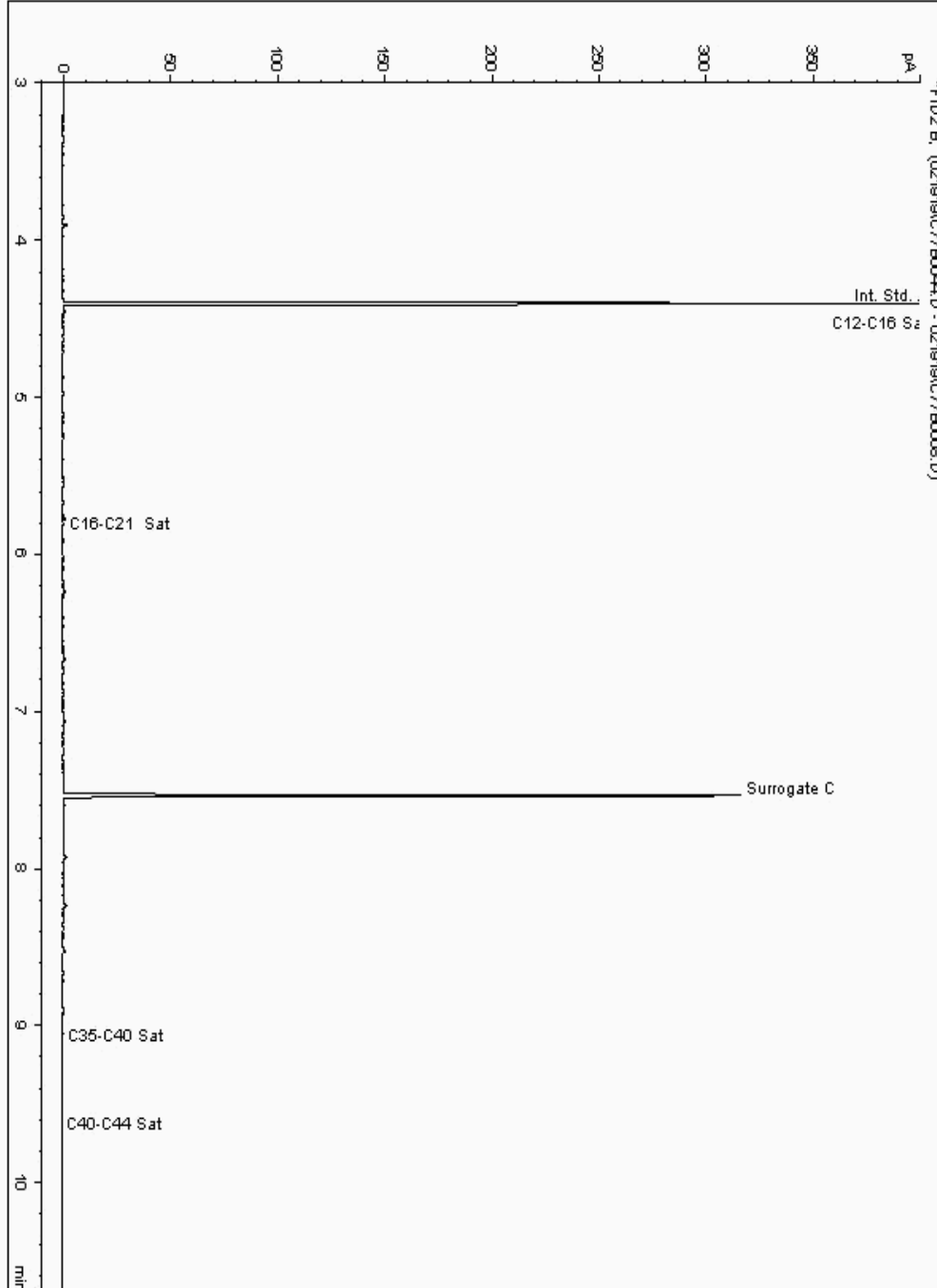
Analysis: EPH CWG (Aliphatic) GC (S)
19347754

Sample No :
Sample ID : BH207

19,347,754 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110116-
Date Acquired : 19/02/2019 23:38:57 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

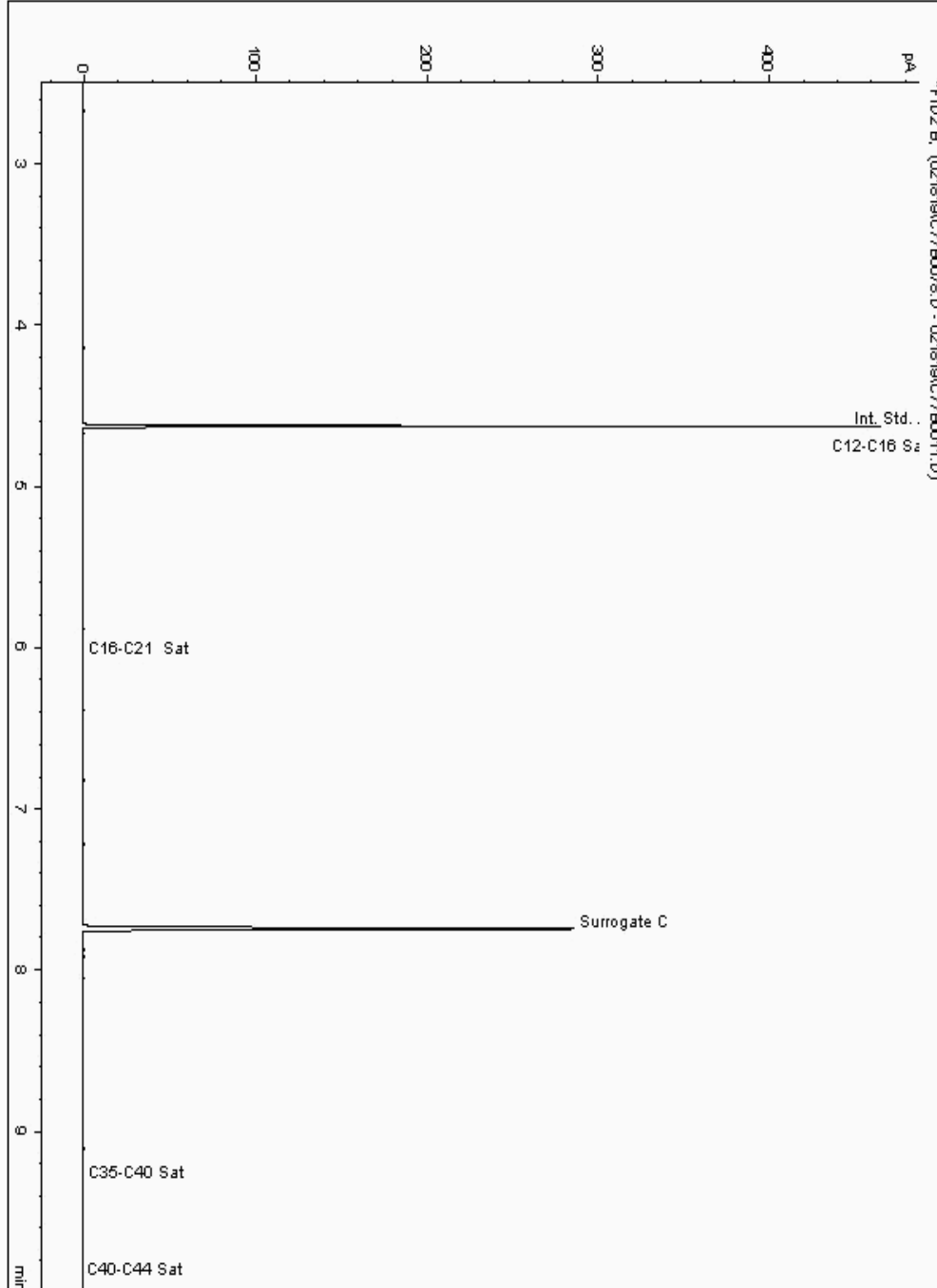
Analysis: EPH CWG (Aliphatic) GC (S)
19348075

Sample No :
Sample ID : BH208

19,348,075 Depth : 10.00 - 11.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111006-
Date Acquired : 2/20/2019 11:55:59 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

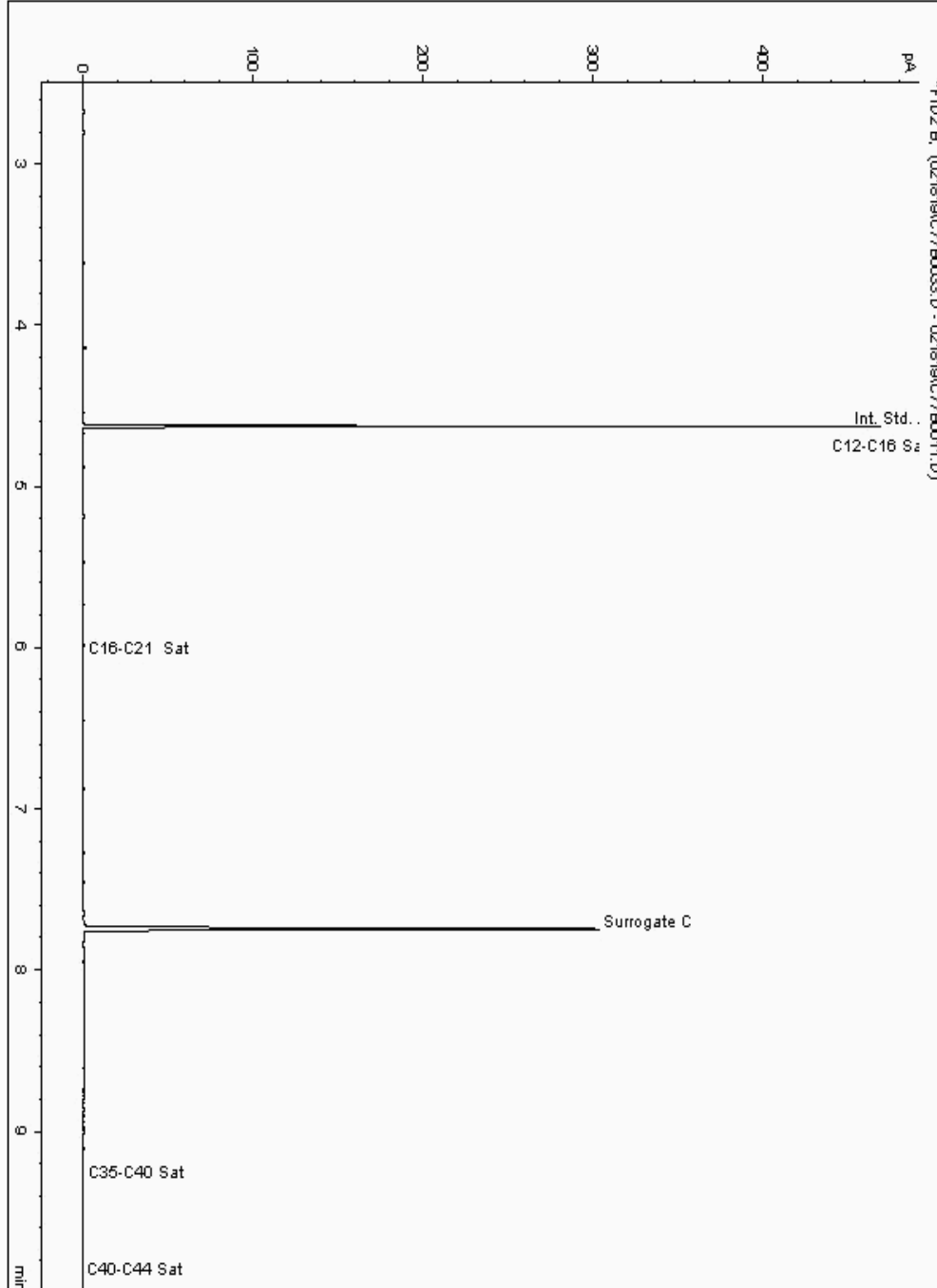
Analysis: EPH CWG (Aliphatic) GC (S)
19349764

Sample No :
Sample ID : BH220

19,349,764 Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111803-
Date Acquired : 2/18/2019 11:15:43 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

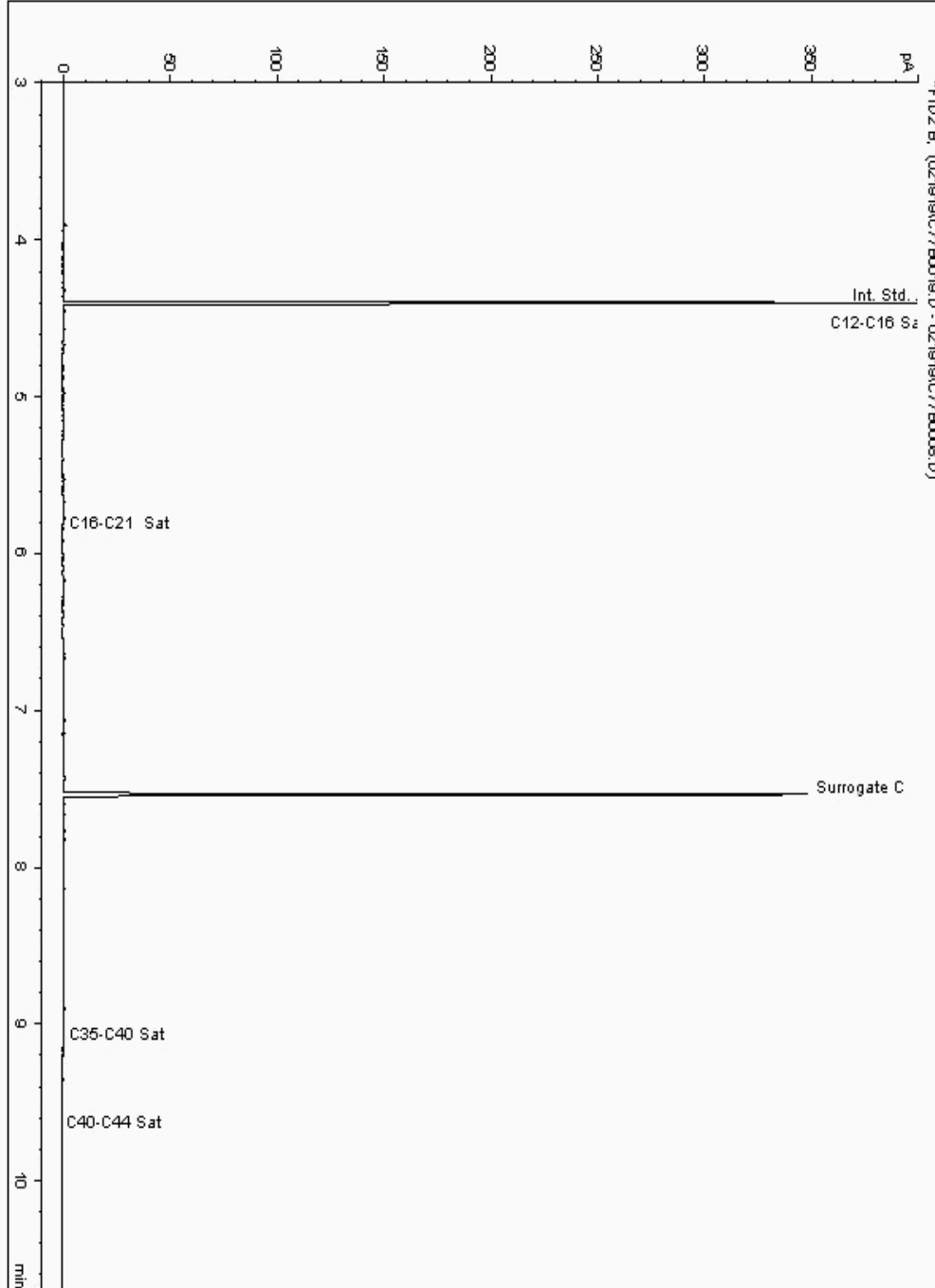
Analysis: EPH CWG (Aliphatic) GC (S)
19349862

Sample No :
Sample ID : BH209

19,349,862 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112040-
Date Acquired : 19/02/2019 15:45:47 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

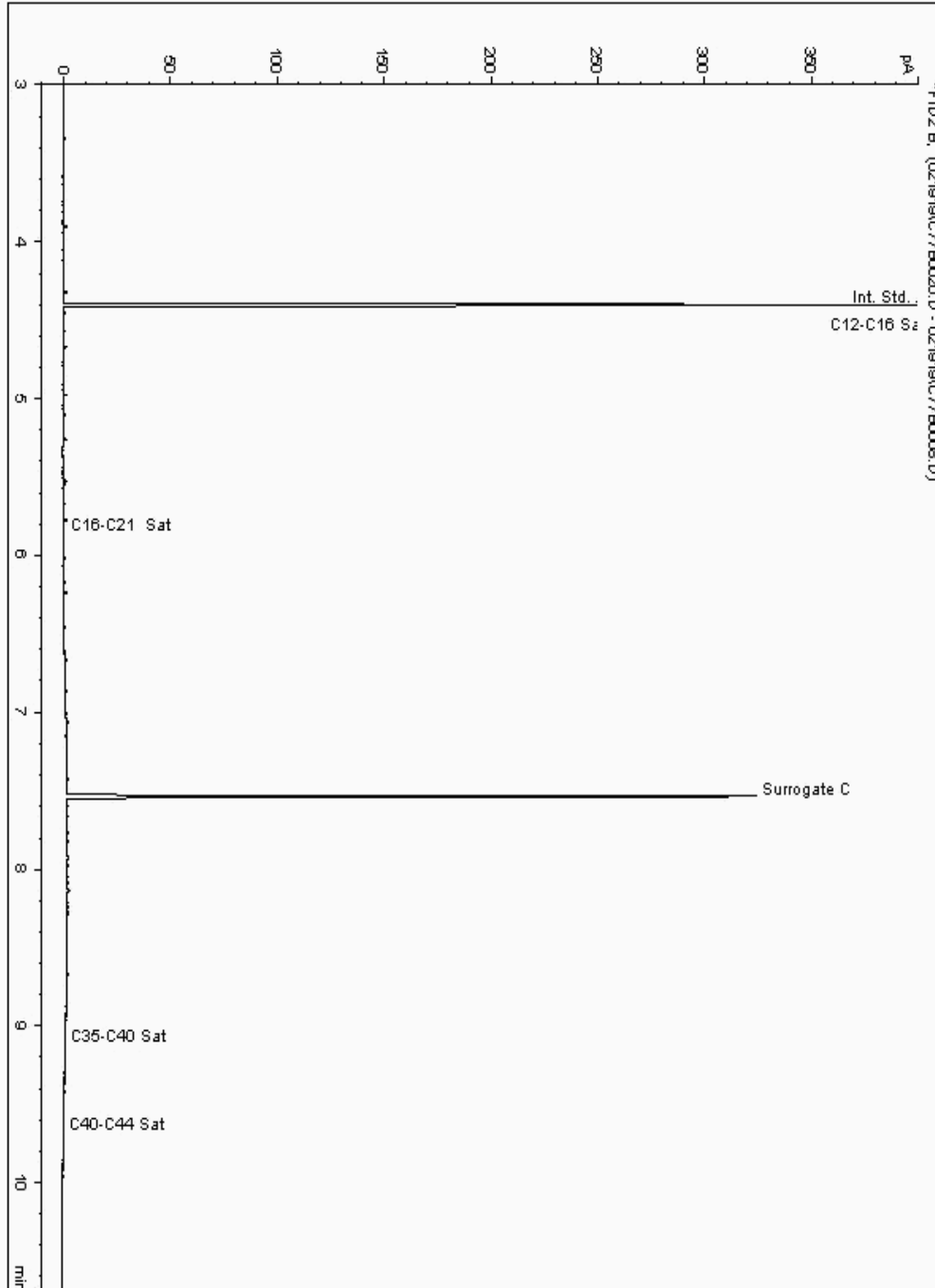
Analysis: EPH CWG (Aliphatic) GC (S)
19350021

Sample No :
Sample ID : BH220

19,350,021 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111778-
Date Acquired : 19/02/2019 16:06:08 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

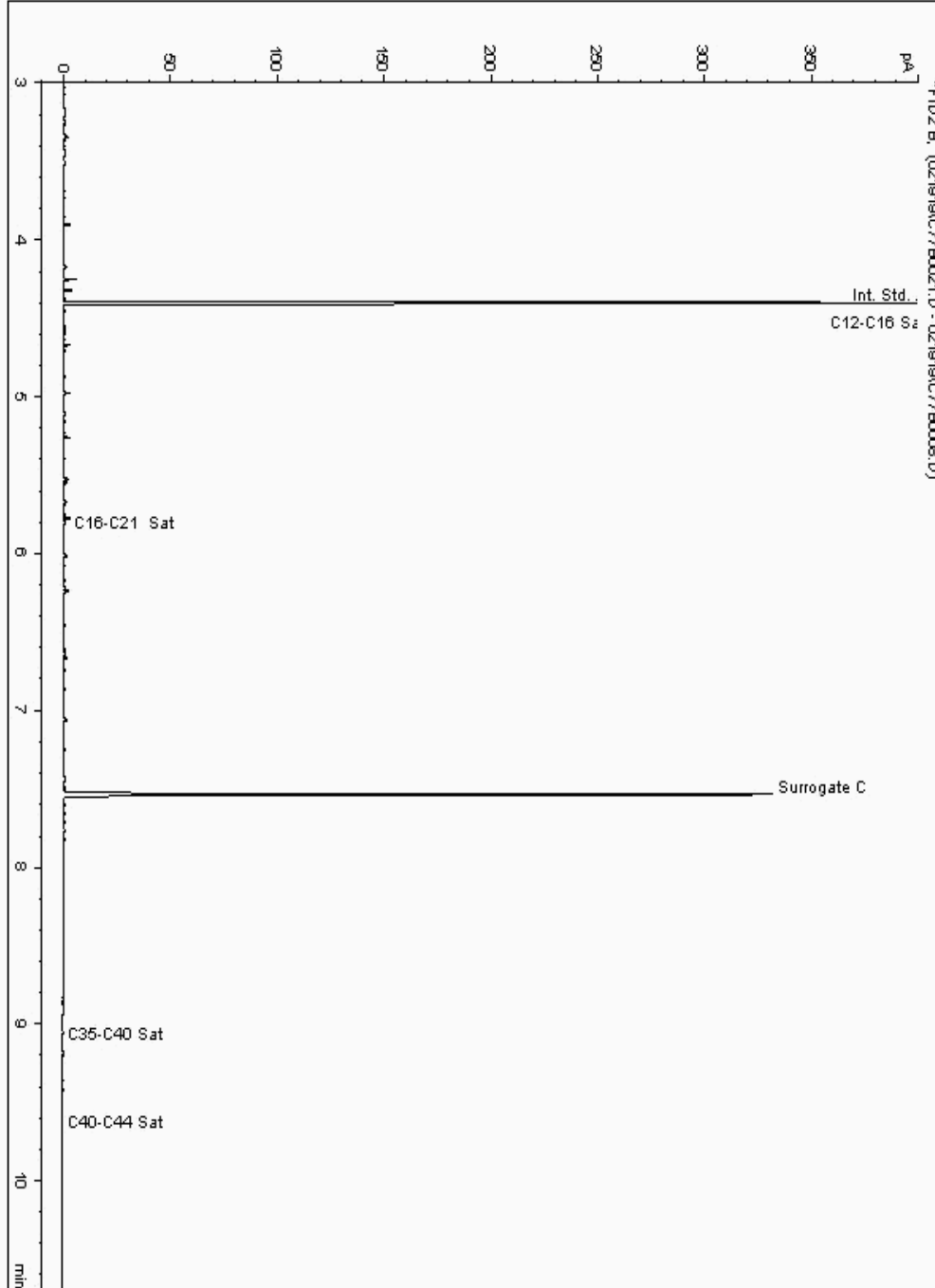
Analysis: EPH CWG (Aliphatic) GC (S)
19350127

Sample No :
Sample ID : BH221

19,350,127 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111516-
Date Acquired : 19/02/2019 16:26:17 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

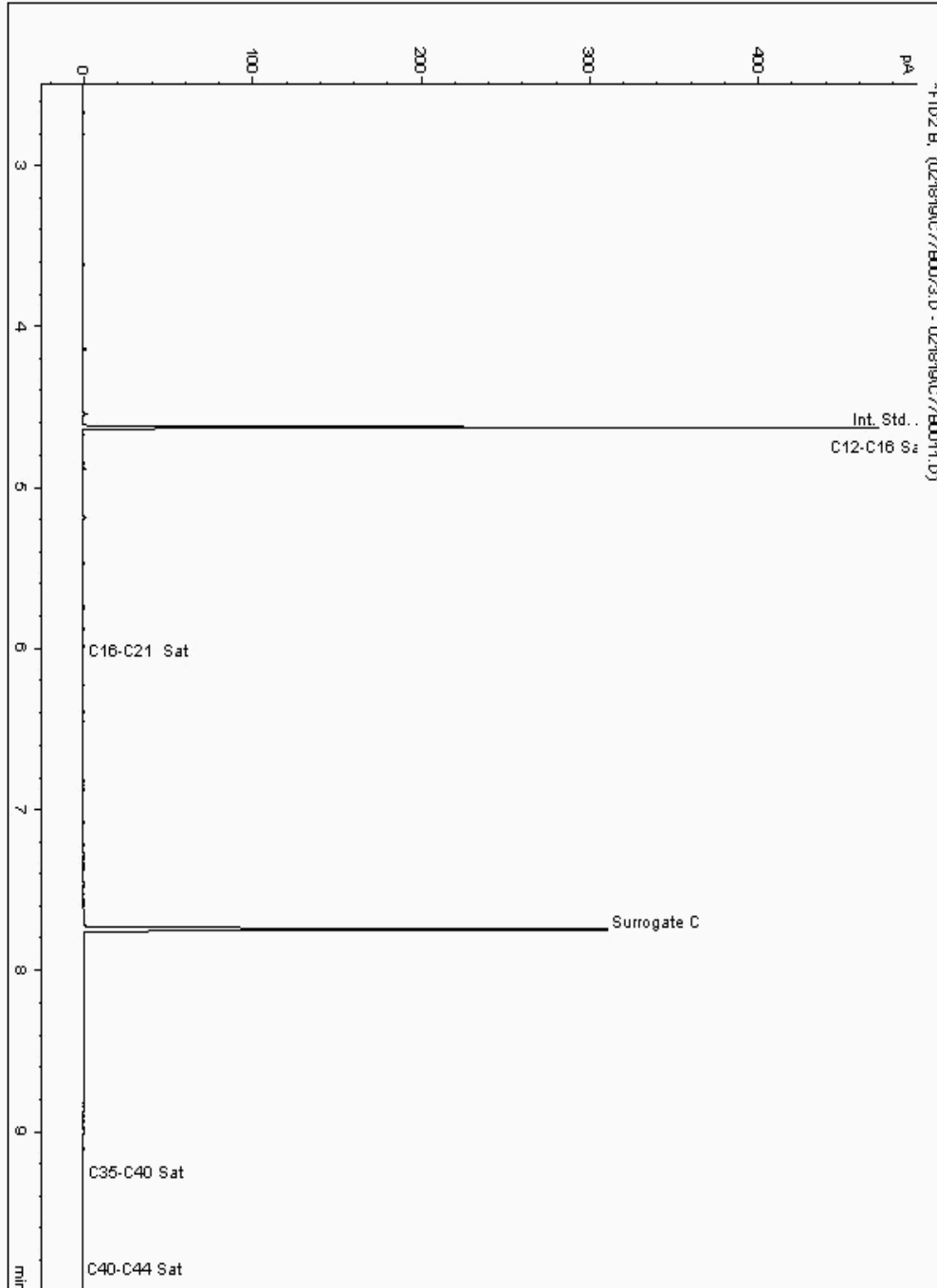
Analysis: EPH CWG (Aliphatic) GC (S)
19350275

Sample No :
Sample ID : BH220

19,350,275 Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111828-
Date Acquired : 2/20/2019 10:15:10 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

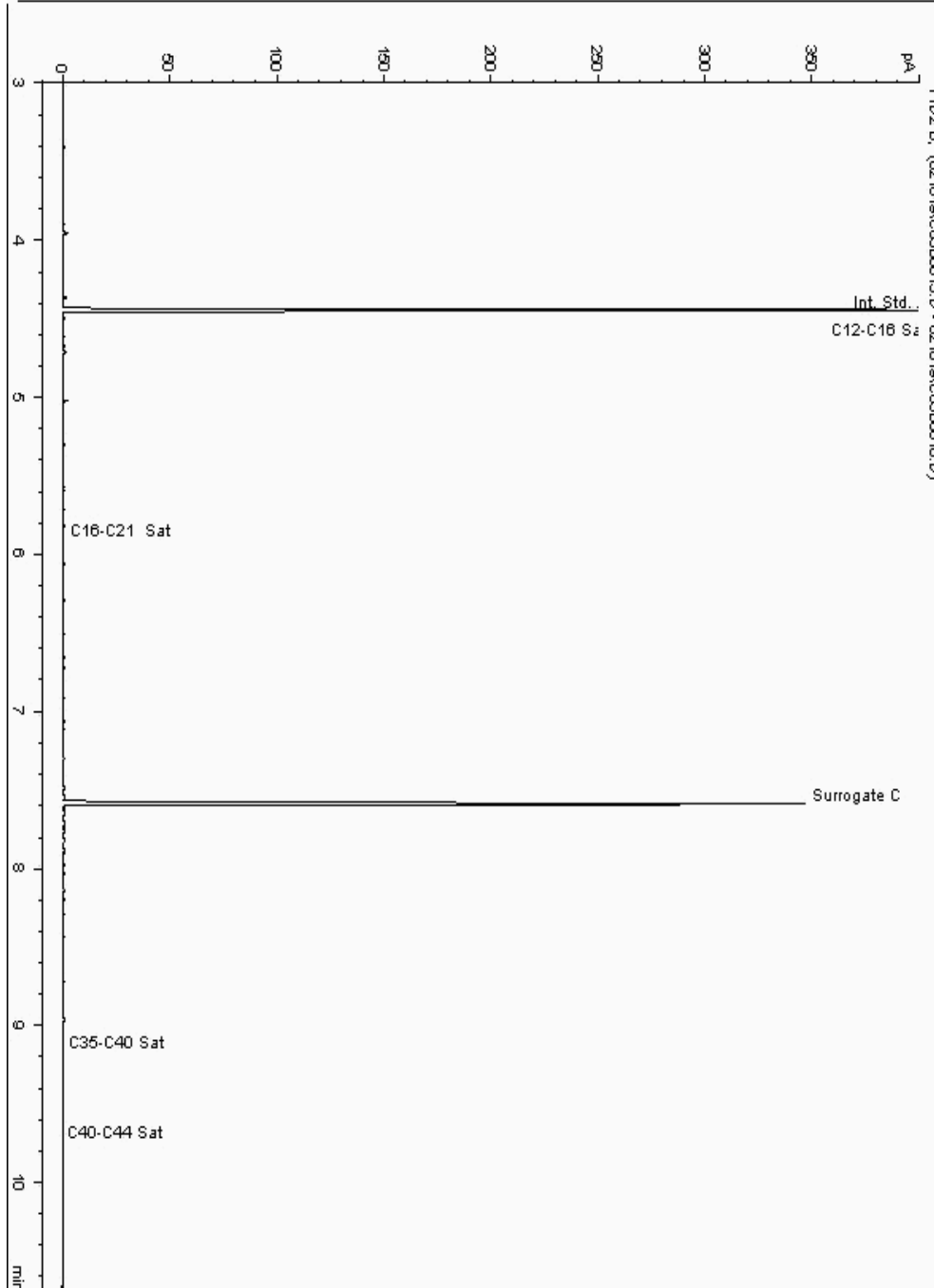
Analysis: EPH CWG (Aliphatic) GC (S)
19350421

Sample No :
Sample ID : BH221

19,350,421 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111471-
Date Acquired : 18/02/2019 14:55:02 PM
Units : ppb
Dilution: BH221[14.00 - 15.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

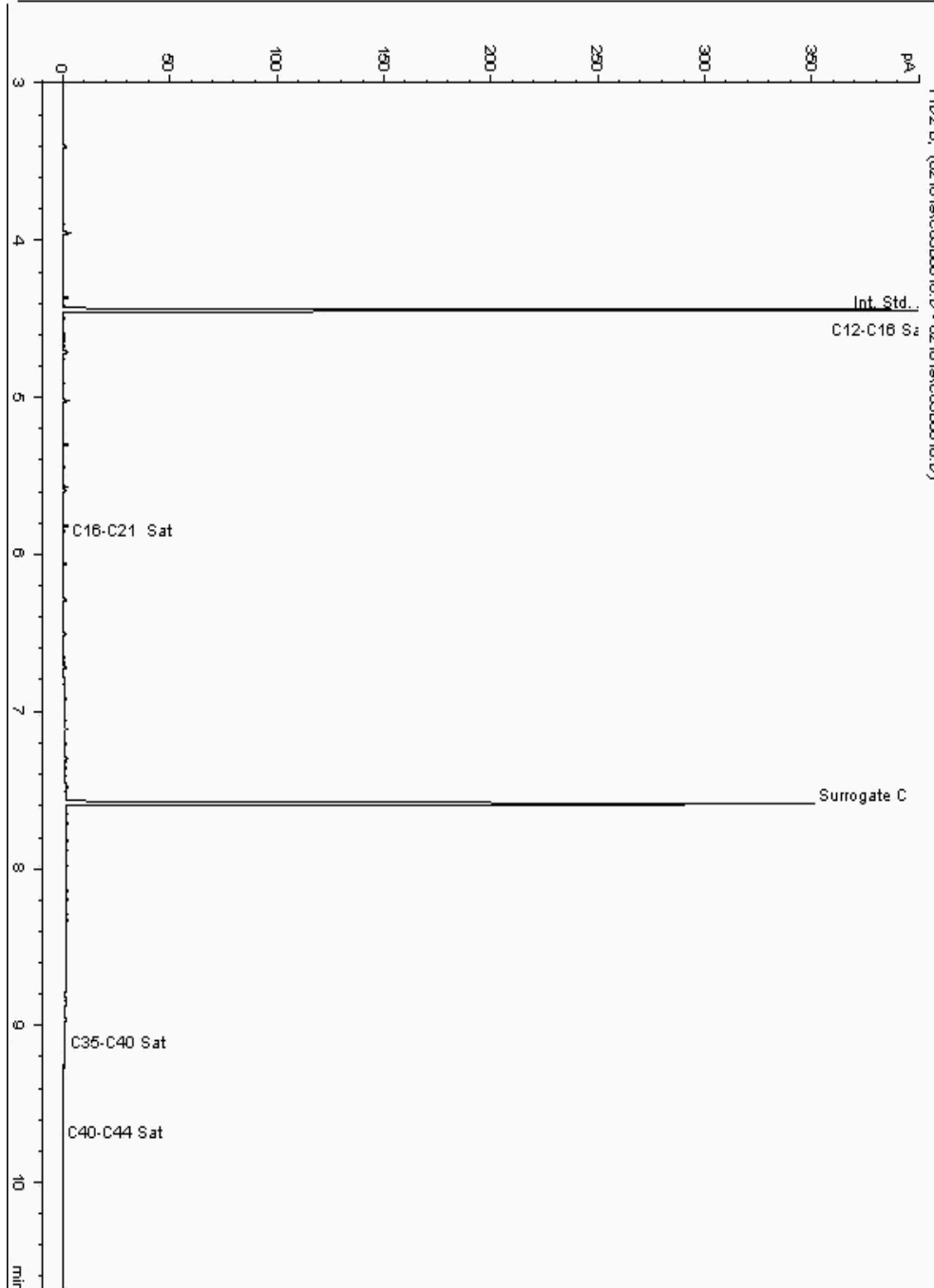
Analysis: EPH CWG (Aliphatic) GC (S)
19350694

Sample No :
Sample ID : BH209

19,350,694 Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112133-
Date Acquired : 18/02/2019 15:56:46 PM
Units : ppb
Dilution: BH209[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

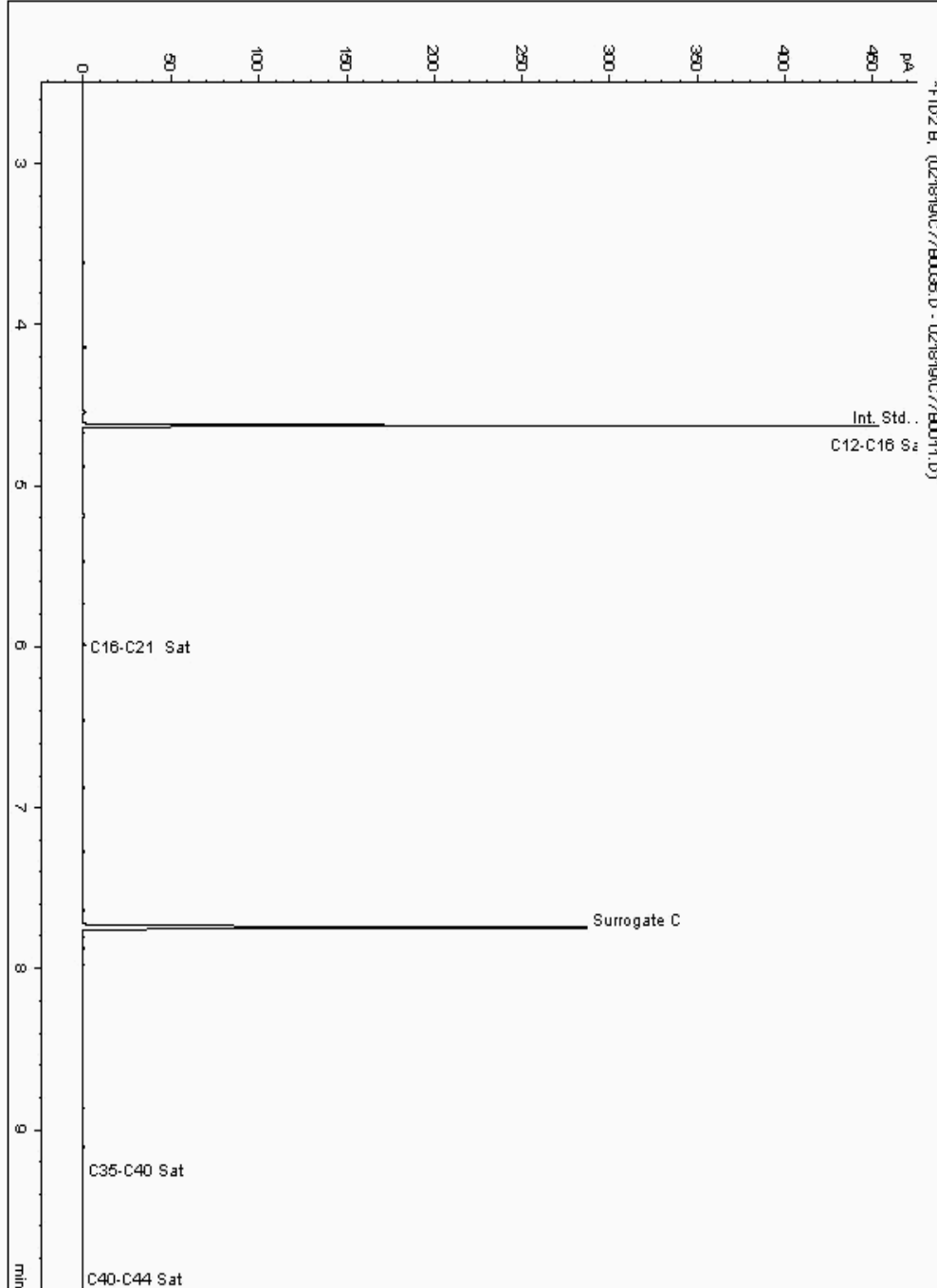
Analysis: EPH CWG (Aliphatic) GC (S)
19350913

Sample No :
Sample ID : BH221

19,350,913 Depth : 12.00 - 13.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111434-
Date Acquired : 2/19/2019 12:15:55 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

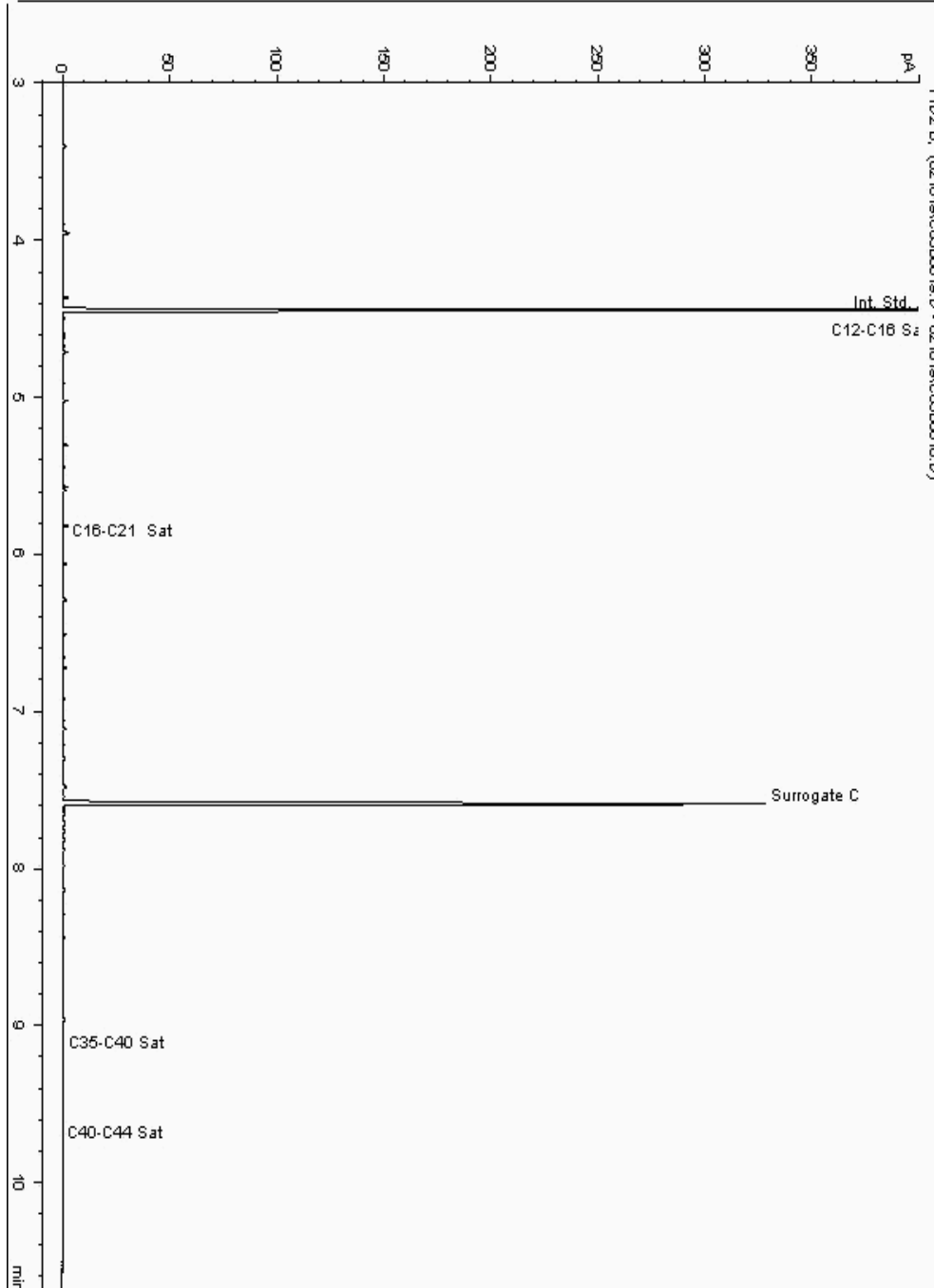
Analysis: EPH CWG (Aliphatic) GC (S)
19350980

Sample No :
Sample ID : BH209

19,350,980Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112098-
Date Acquired : 18/02/2019 16:17:14 PM
Units : ppb
Dilution: BH209[14.00 - 15.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

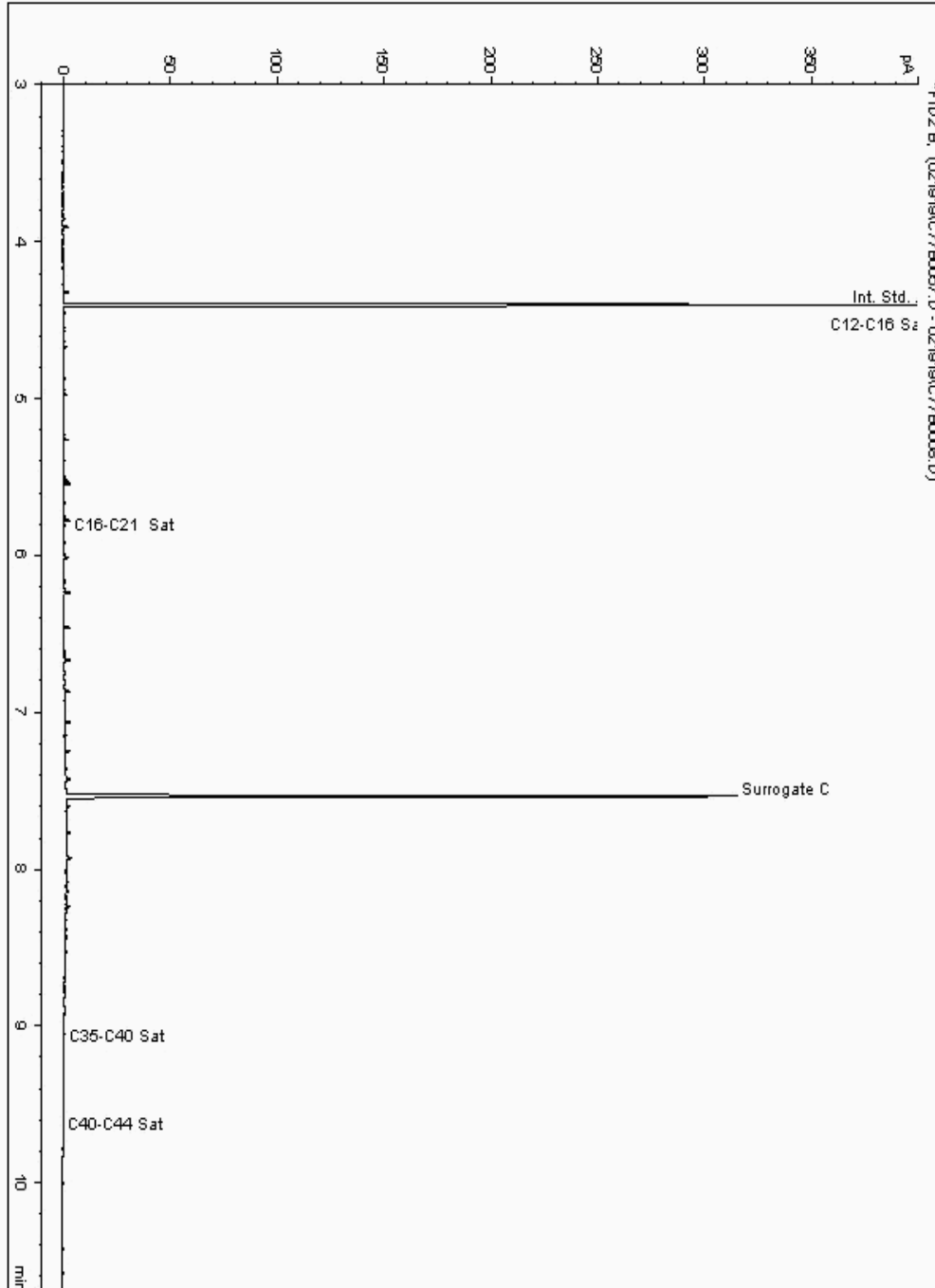
Analysis: EPH CWG (Aliphatic) GC (S)
19357899

Sample No :
Sample ID : BH207

19,357,899Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109973-
Date Acquired : 20/02/2019 03:37:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

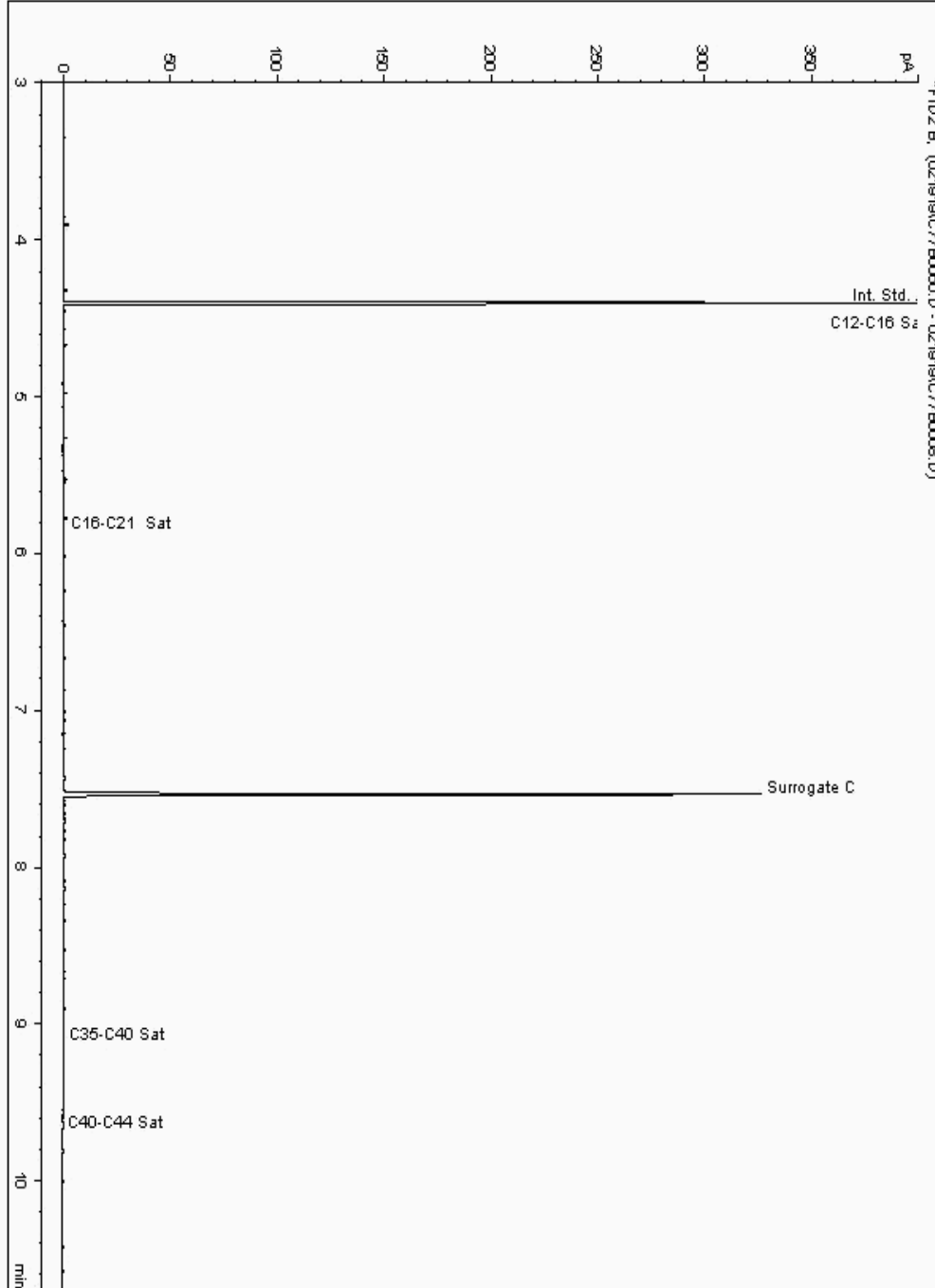
Analysis: EPH CWG (Aliphatic) GC (S)
19361712

Sample No :
Sample ID : BH208

19,361,712 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111037-
Date Acquired : 20/02/2019 04:21:14 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

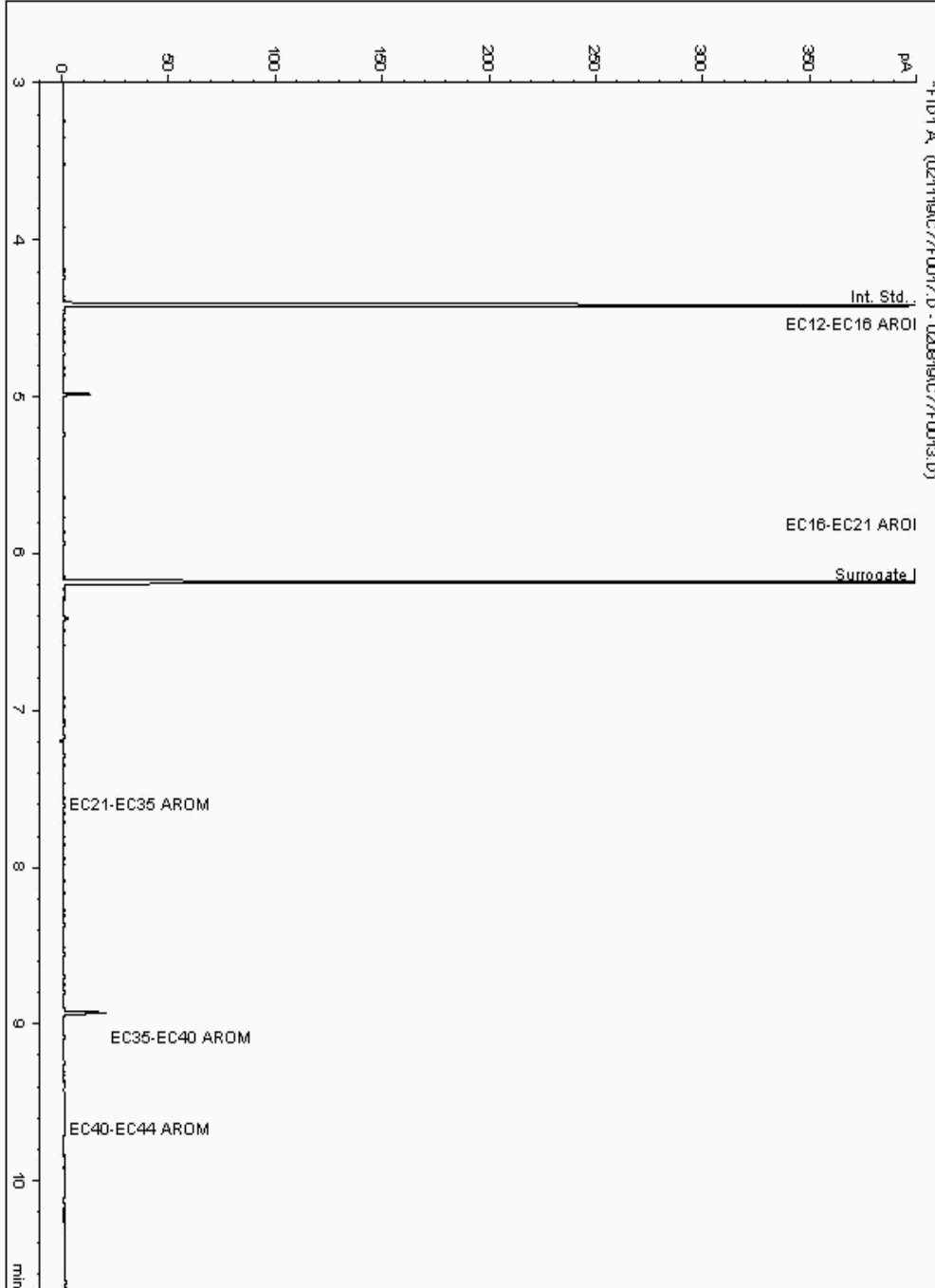
Analysis: EPH CWG (Aromatic) GC (S)
19293423

Sample No :
Sample ID : BH209

19,293,423 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112074-
Date Acquired : 11/02/2019 13:36:34 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

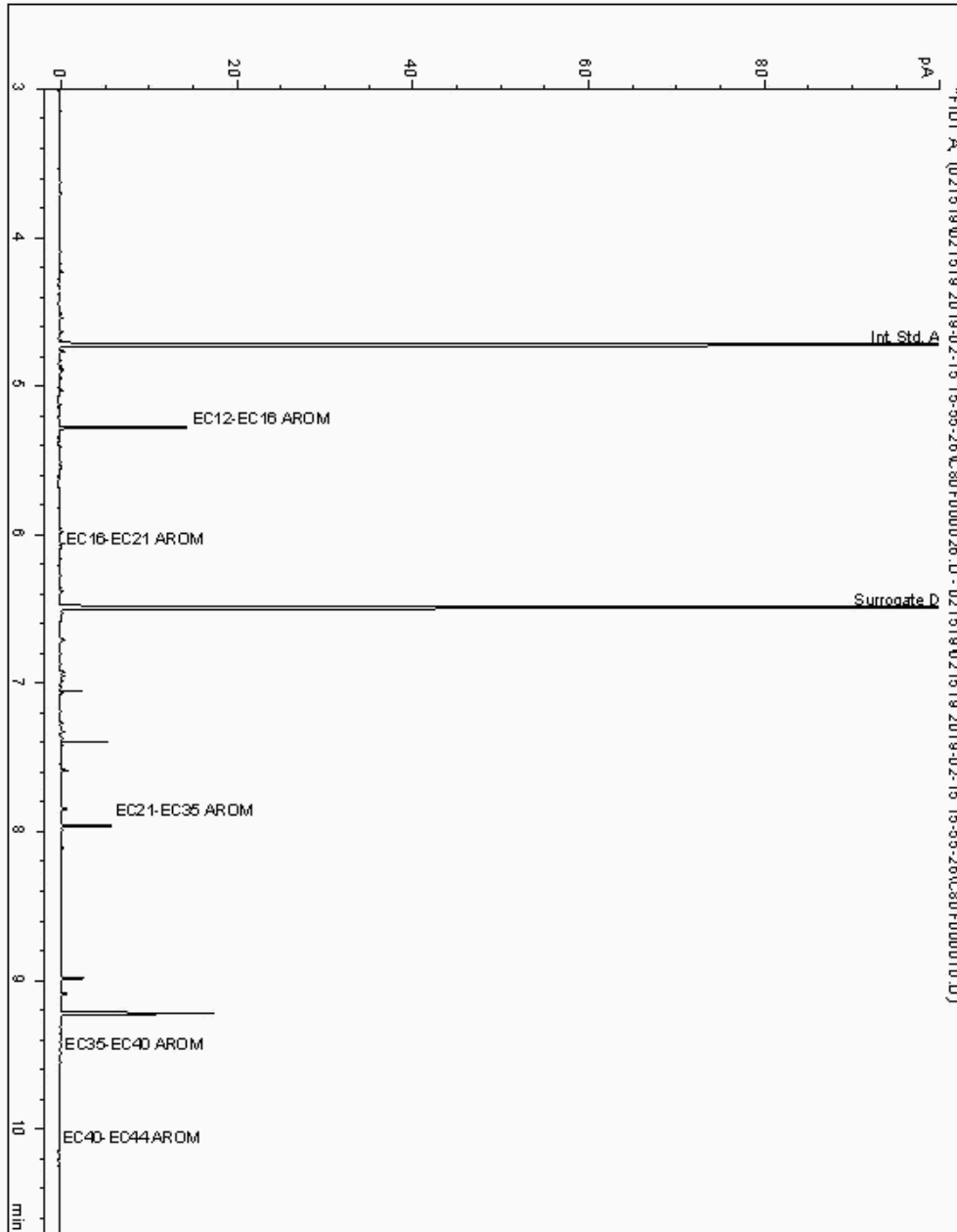
Analysis: EPH CWG (Aromatic) GC (S)
19339880

Sample No :
Sample ID : BH220

19,339,880 Depth : 11.00 - 12.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18111751-
Date Acquired : 16/02/19 00:10:26
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

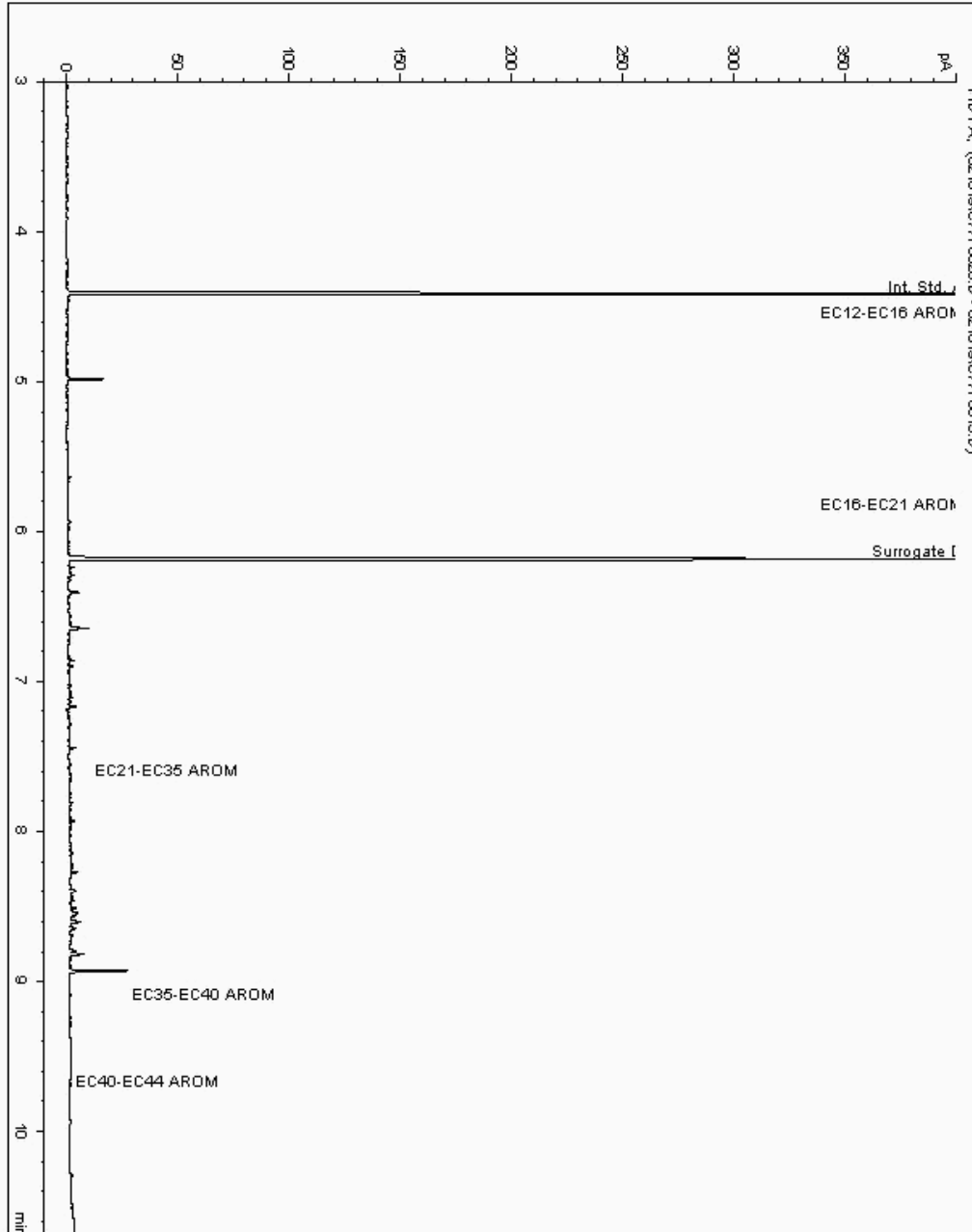
Analysis: EPH CWG (Aromatic) GC (S)
19339974

Sample No :
Sample ID : BH220

19,339,974 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111679-
Date Acquired : 16/02/2019 22:41:35 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

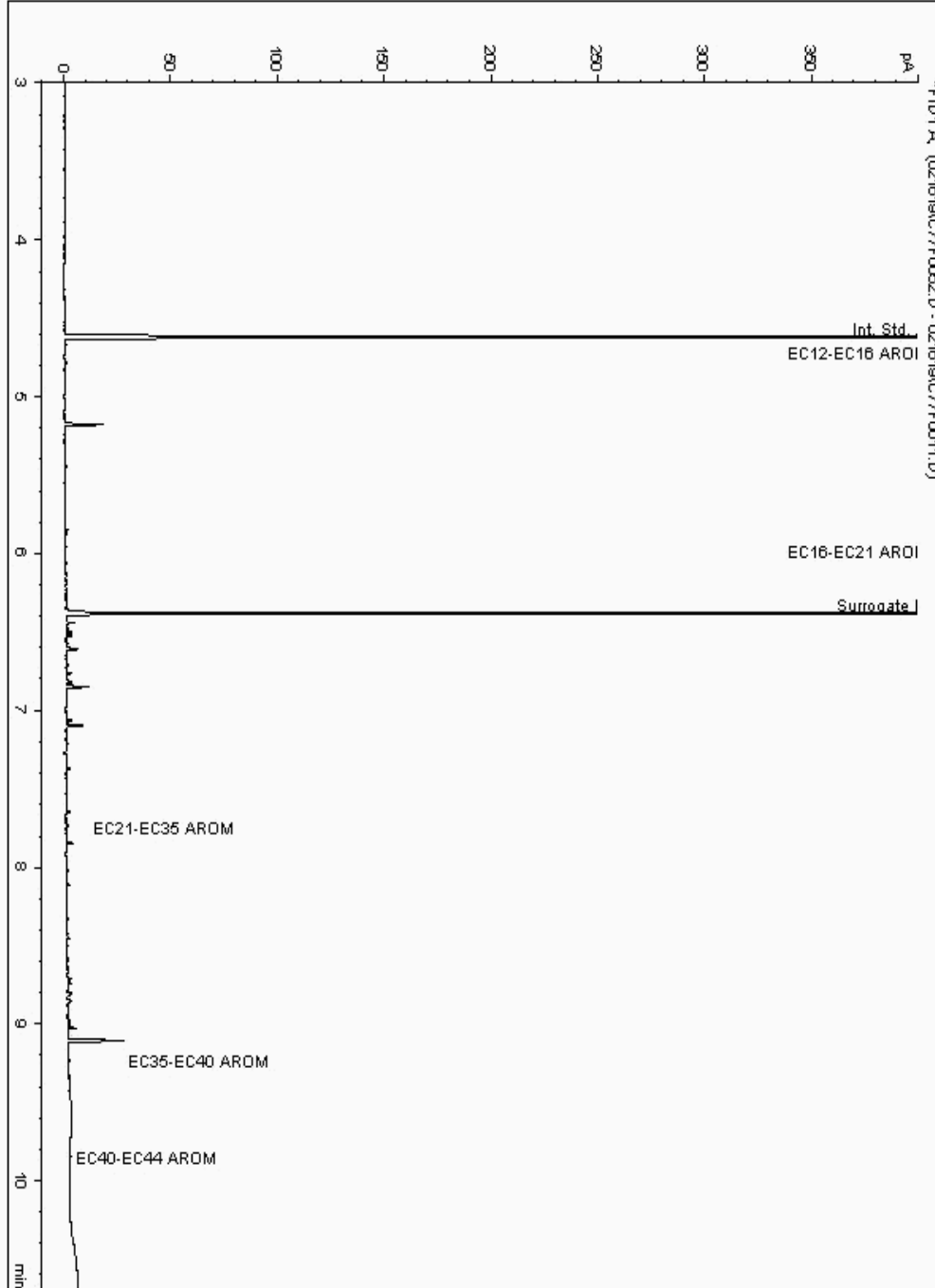
Analysis: EPH CWG (Aromatic) GC (S)
19340190

Sample No :
Sample ID : BH209

19,340,190Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111971-
Date Acquired : 2/17/2019 5:43:32 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

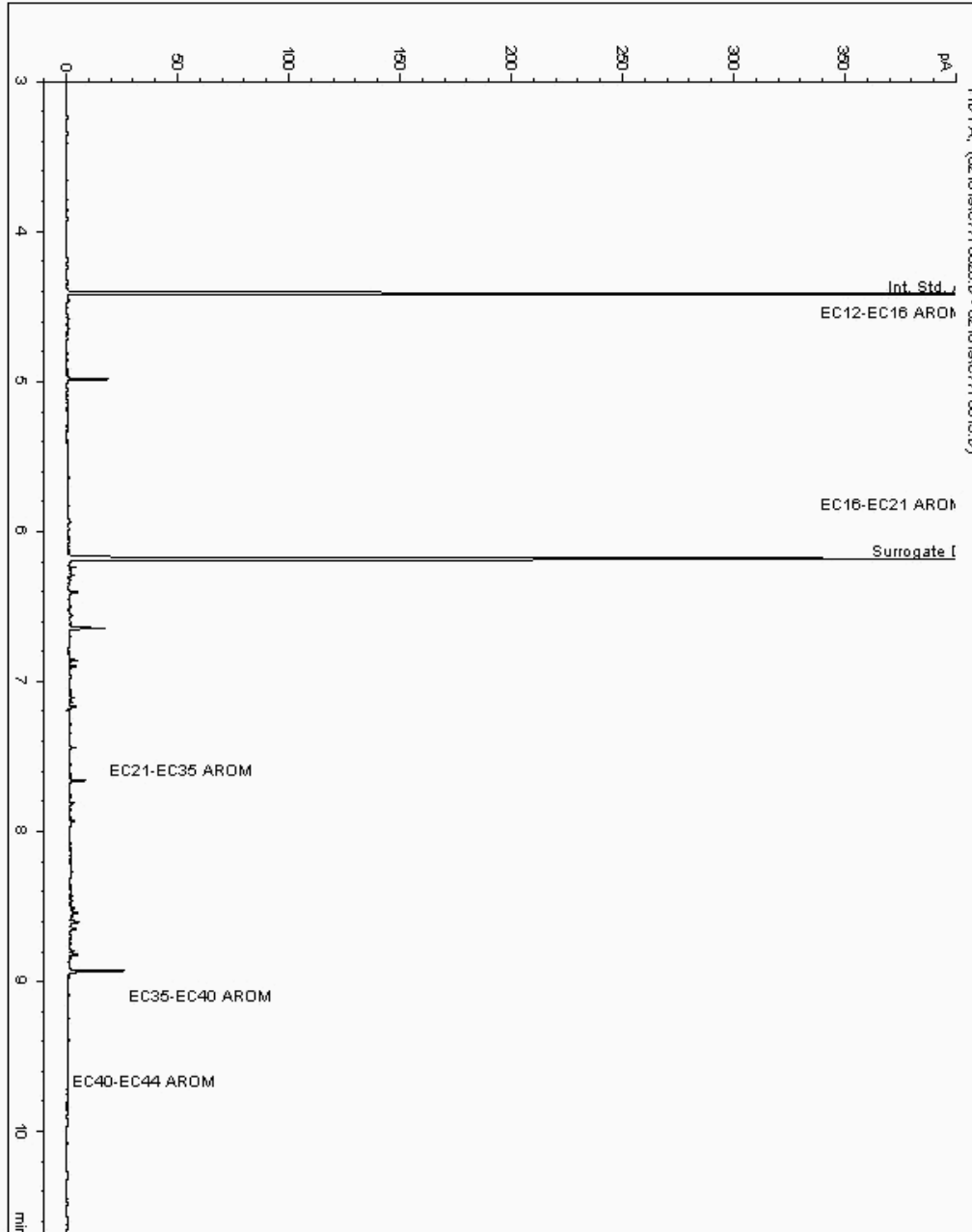
Analysis: EPH CWG (Aromatic) GC (S)
19340253

Sample No :
Sample ID : BH220

19,340,253Depth :4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111654-
Date Acquired : 16/02/2019 20:24:47 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

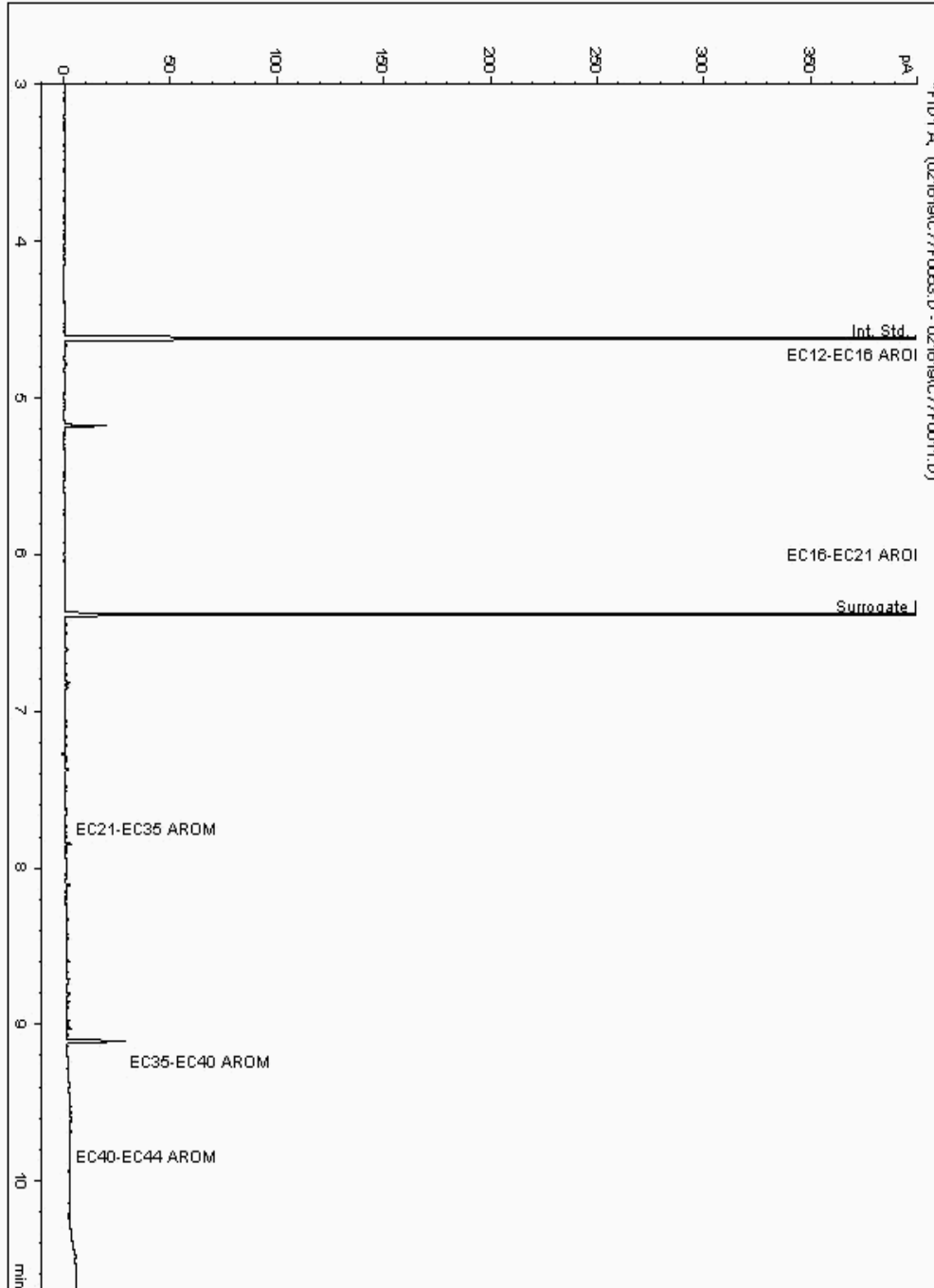
Analysis: EPH CWG (Aromatic) GC (S)
19340331

Sample No :
Sample ID : BH209

19,340,331 Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111994-
Date Acquired : 2/17/2019 6:03:33 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

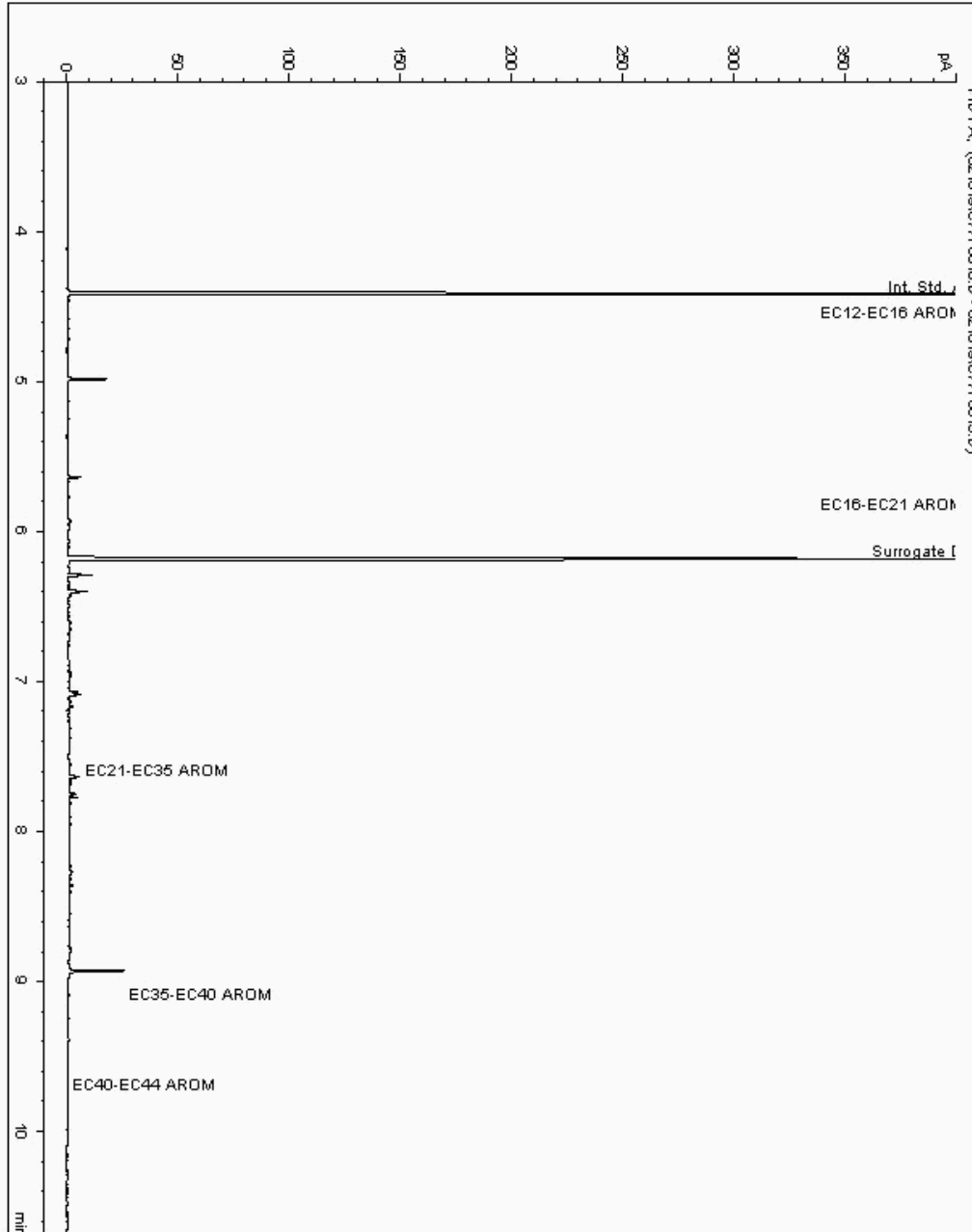
Analysis: EPH CWG (Aromatic) GC (S)
19340434

Sample No :
Sample ID : BH209

19,340,434 Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111852-
Date Acquired : 16/02/2019 19:04:06 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

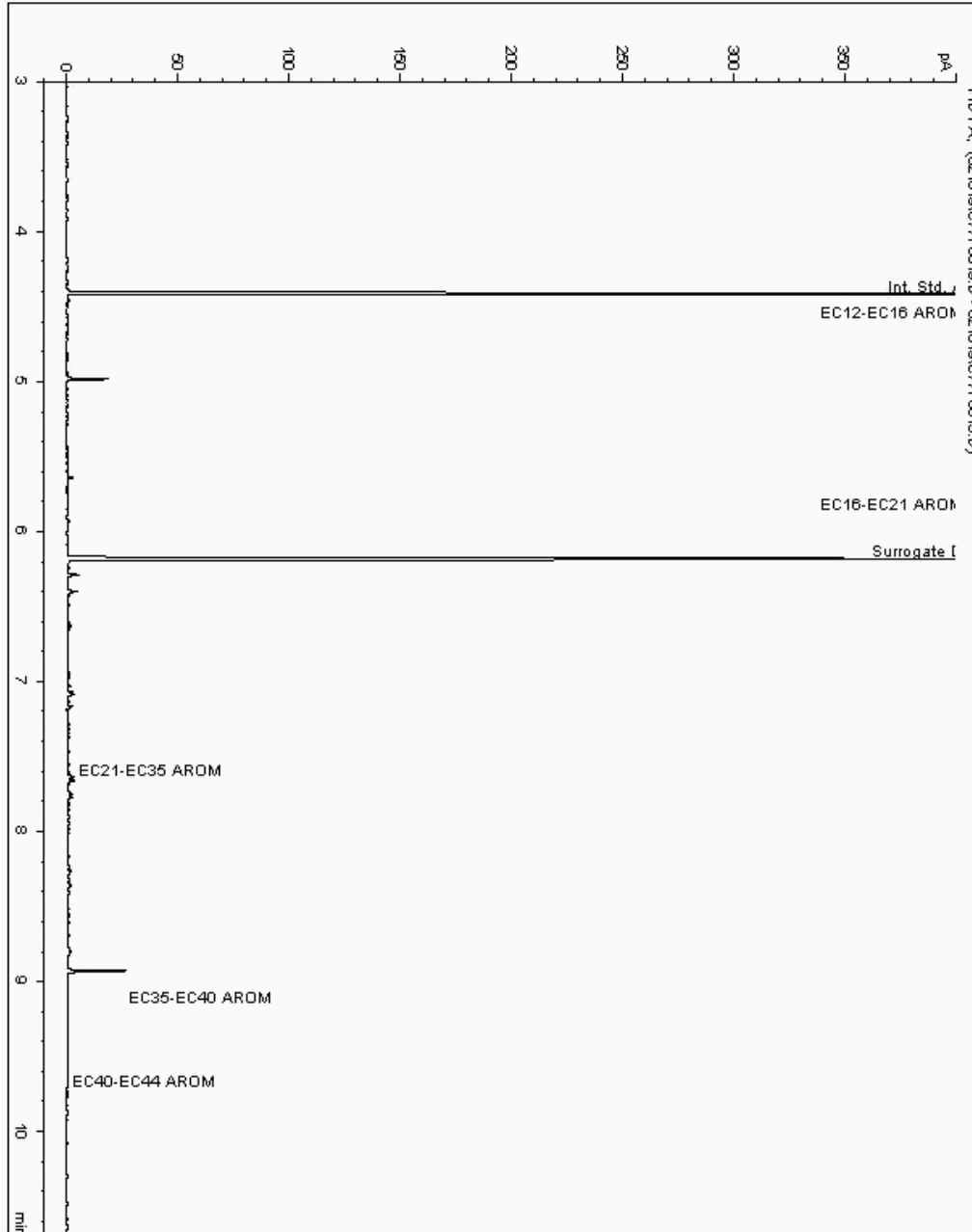
Analysis: EPH CWG (Aromatic) GC (S)
19340479

Sample No :
Sample ID : BH209

19,340,479 Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111877-
Date Acquired : 16/02/2019 20:04:28 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

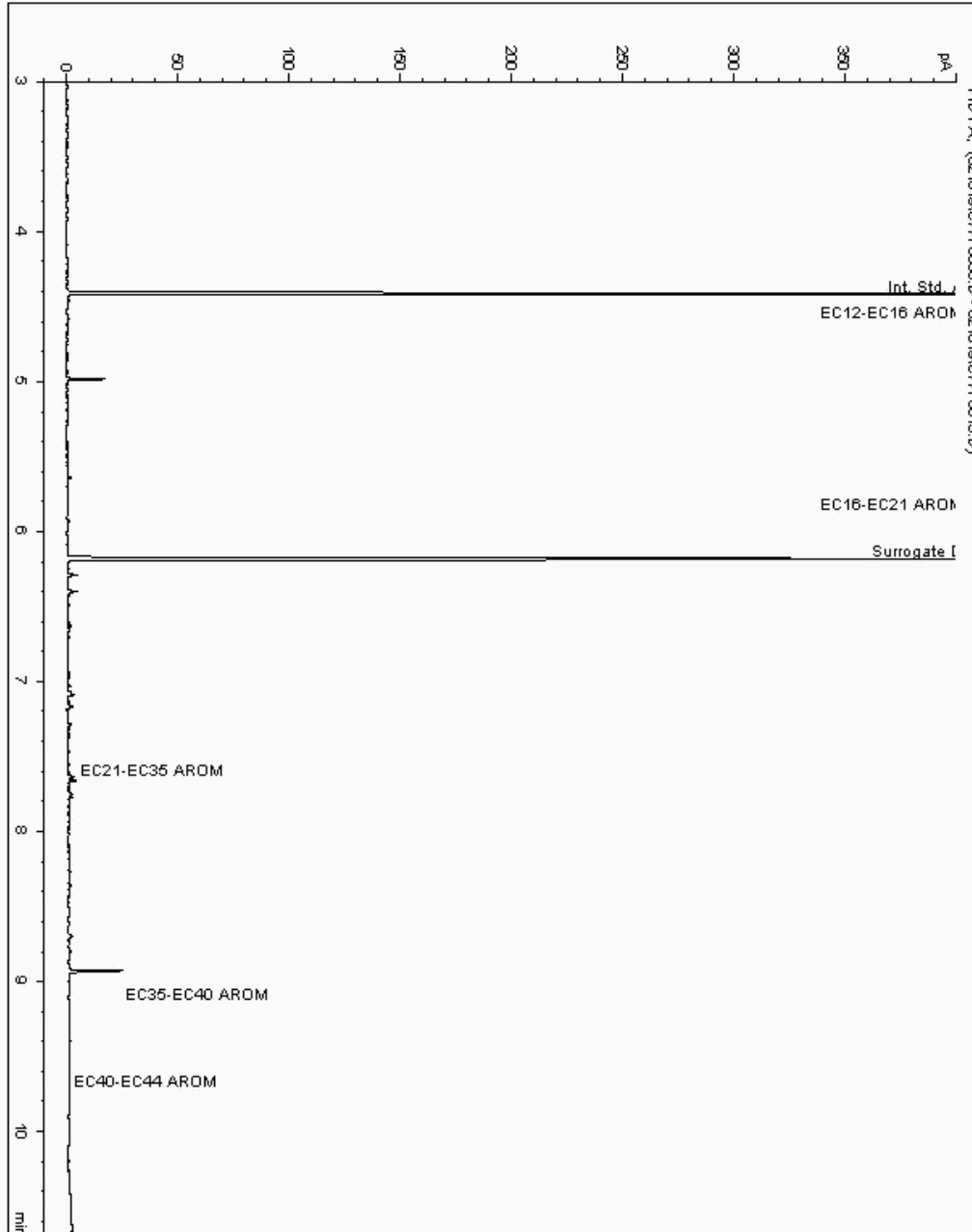
Analysis: EPH CWG (Aromatic) GC (S)
19340600

Sample No :
Sample ID : BH209

19,340,600Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111902-
Date Acquired : 17/02/2019 01:06:31 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

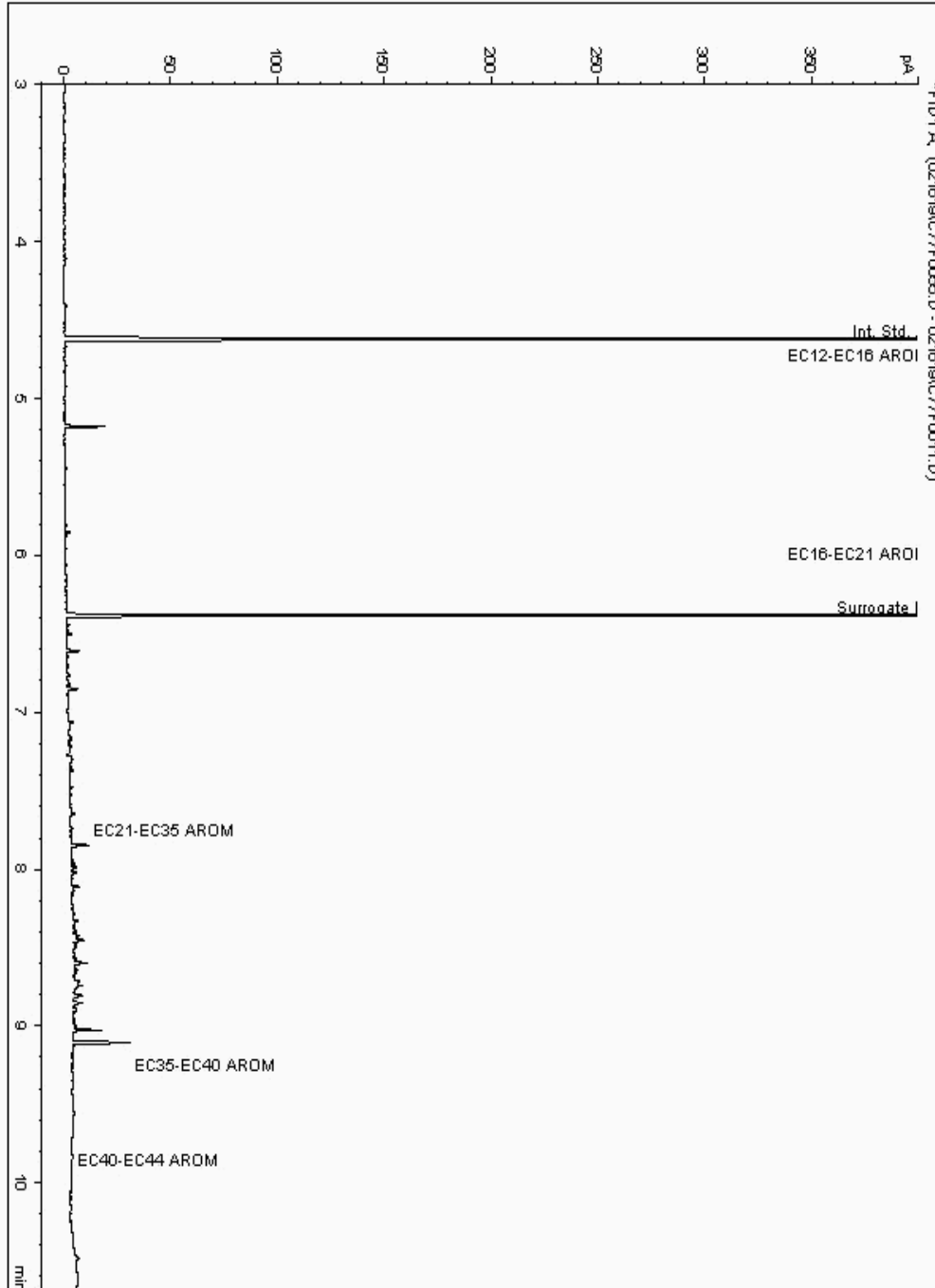
Analysis: EPH CWG (Aromatic) GC (S)
19340885

Sample No :
Sample ID : BH209

19,340,885Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111925-
Date Acquired : 2/17/2019 6:43:39 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

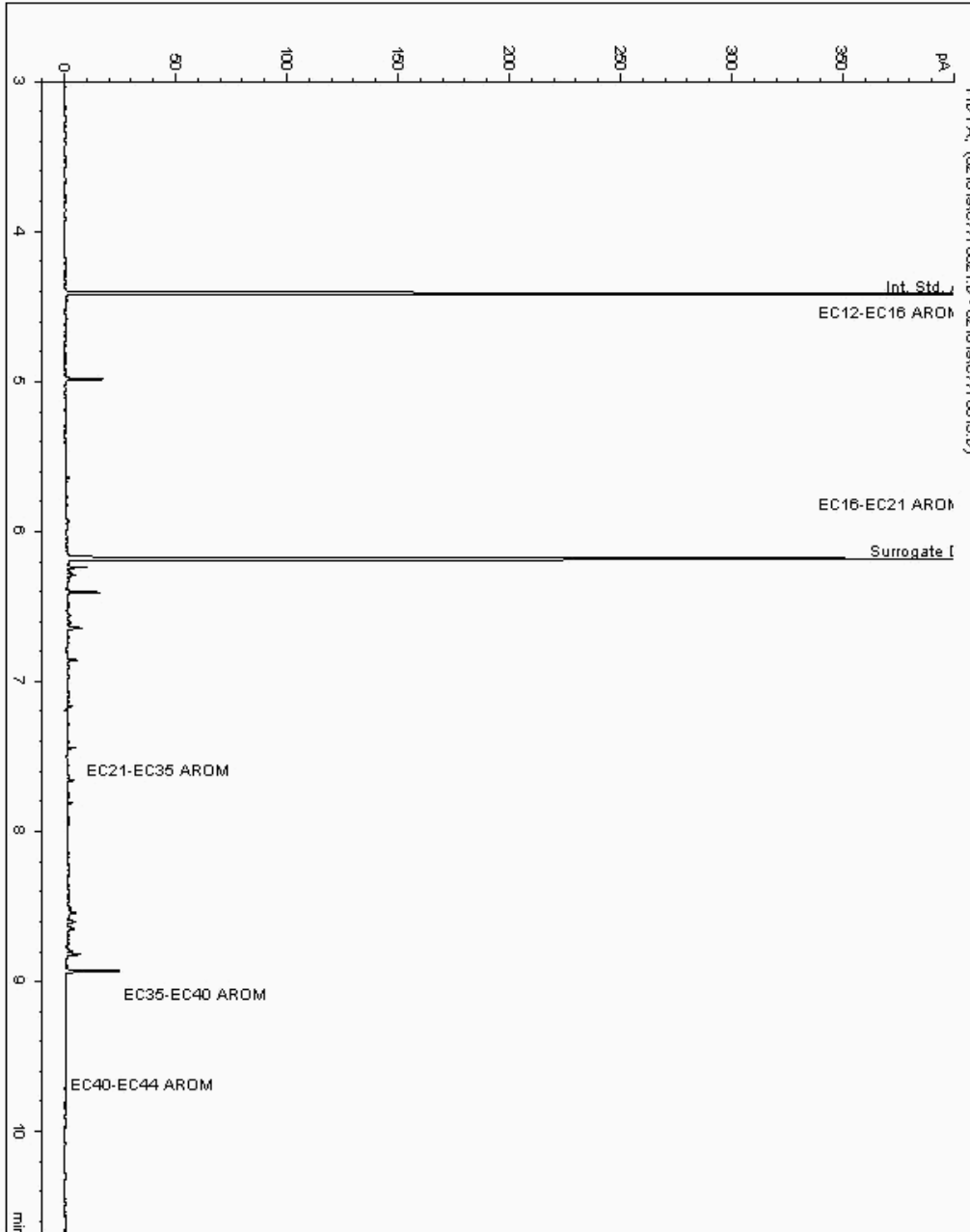
Analysis: EPH CWG (Aromatic) GC (S)
19340989

Sample No :
Sample ID : BH209

19,340,989Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111948-
Date Acquired : 16/02/2019 20:44:52 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

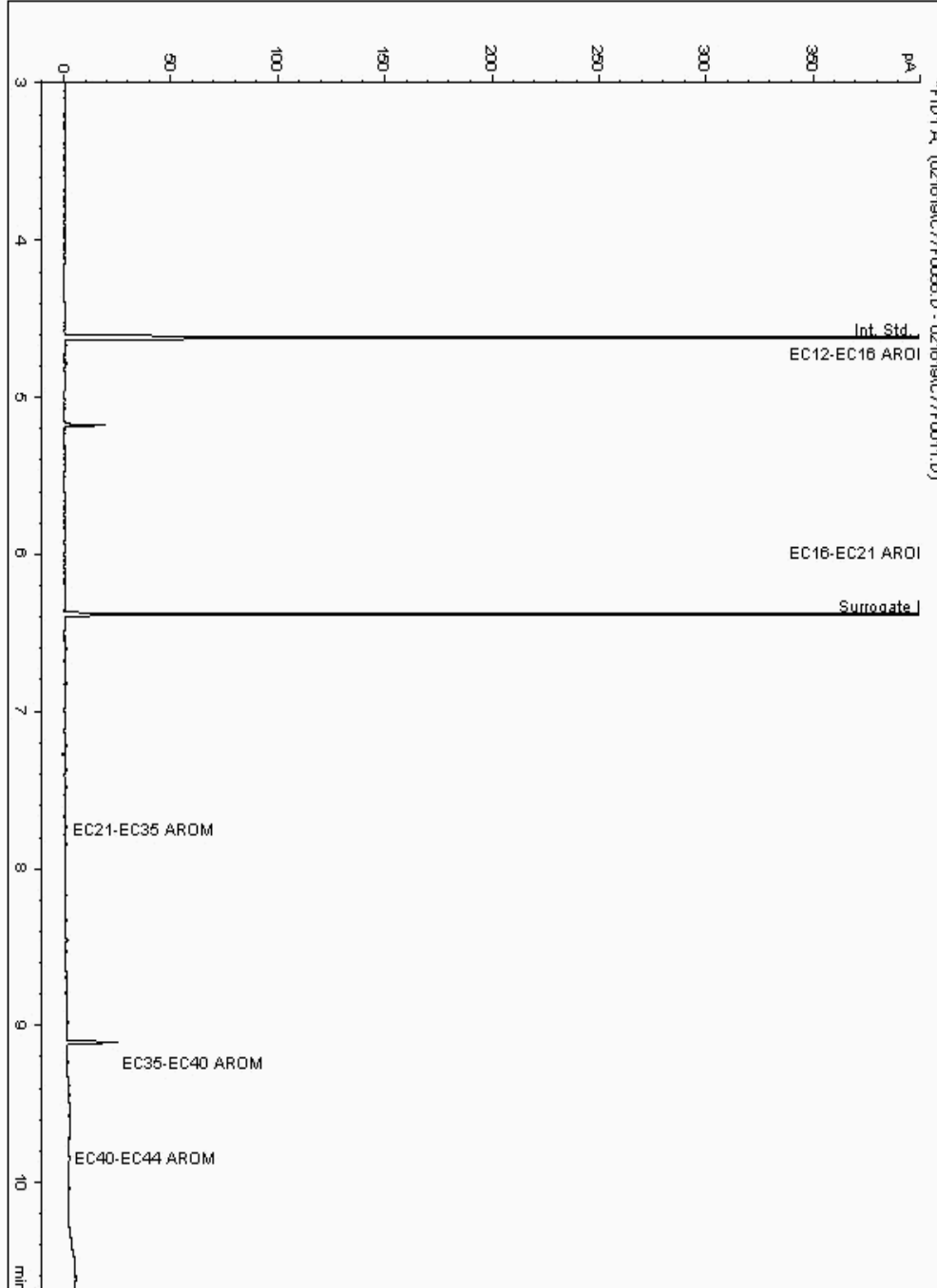
Analysis: EPH CWG (Aromatic) GC (S)
19341087

Sample No :
Sample ID : BH209

19,341,087Depth :9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112017-
Date Acquired : 2/17/2019 7:03:41 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

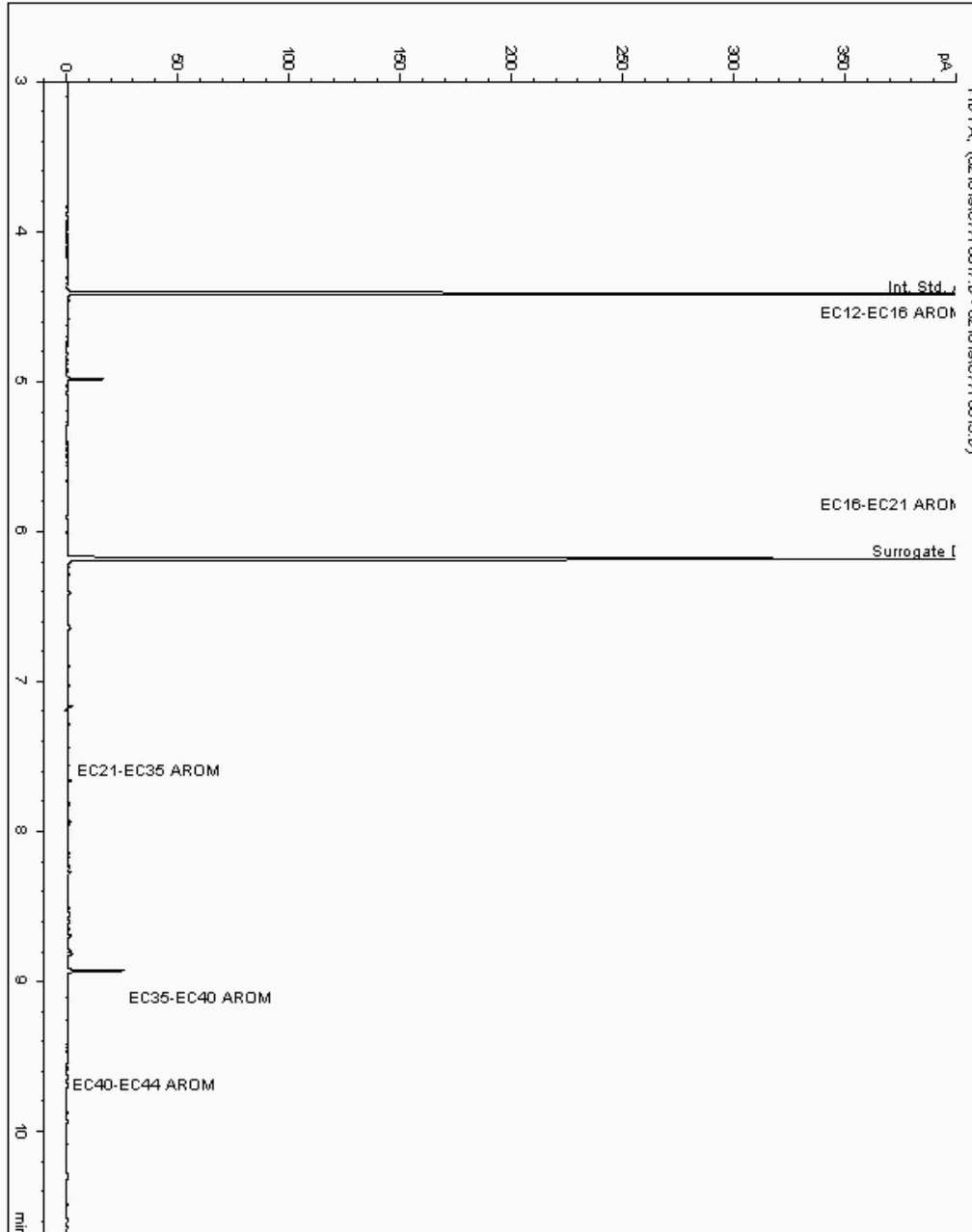
Analysis: EPH CWG (Aromatic) GC (S)
19341263

Sample No :
Sample ID : BH220

19,341,263Depth :7.00 - 8.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111704-
Date Acquired : 16/02/2019 19:24:20 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

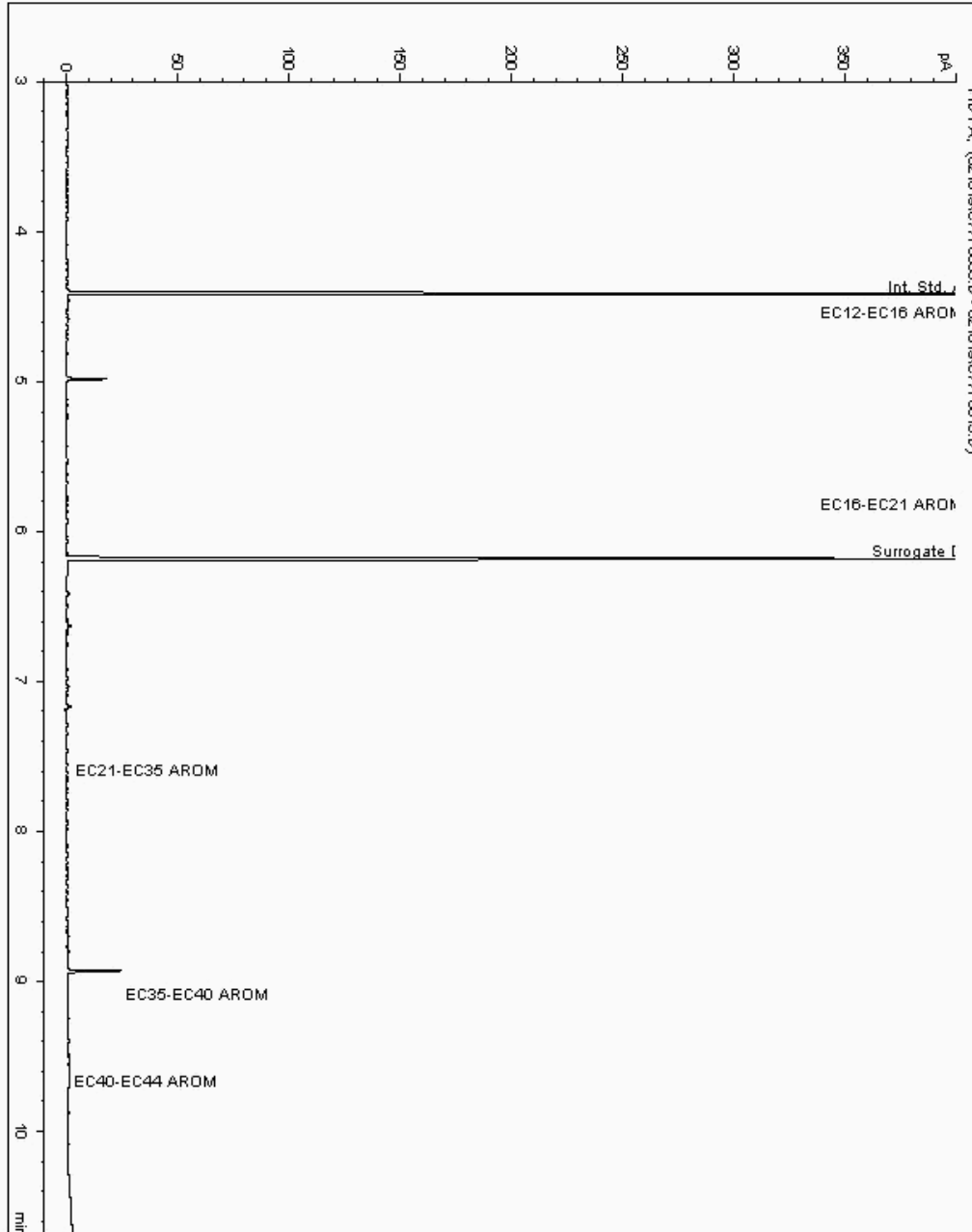
Analysis: EPH CWG (Aromatic) GC (S)
19341383

Sample No :
Sample ID : BH220

19,341,383 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111727-
Date Acquired : 17/02/2019 00:46:26 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

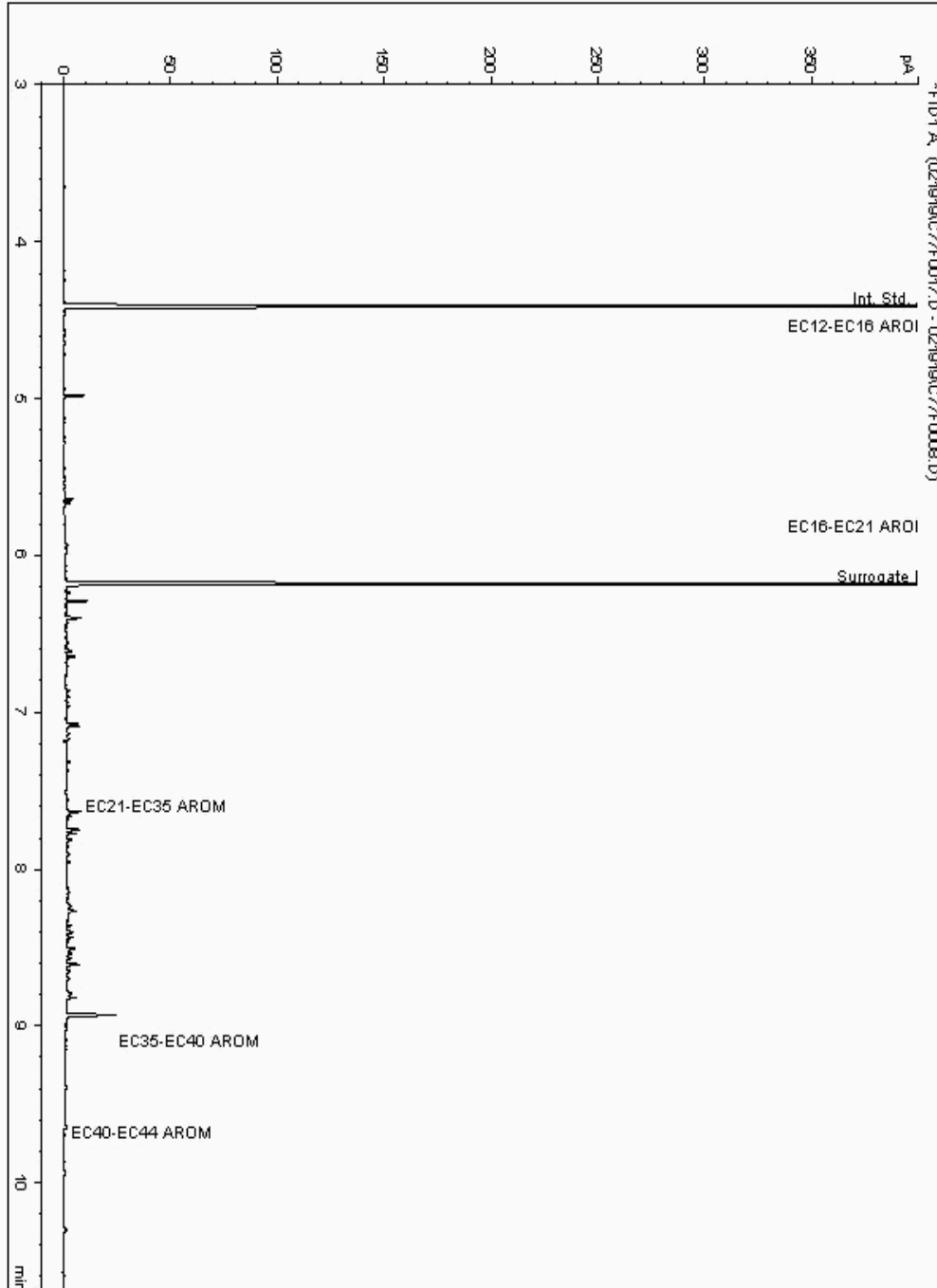
Analysis: EPH CWG (Aromatic) GC (S)
19345327

Sample No :
Sample ID : BH206

19,345,327 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109774-
Date Acquired : 19/02/2019 15:05:27 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

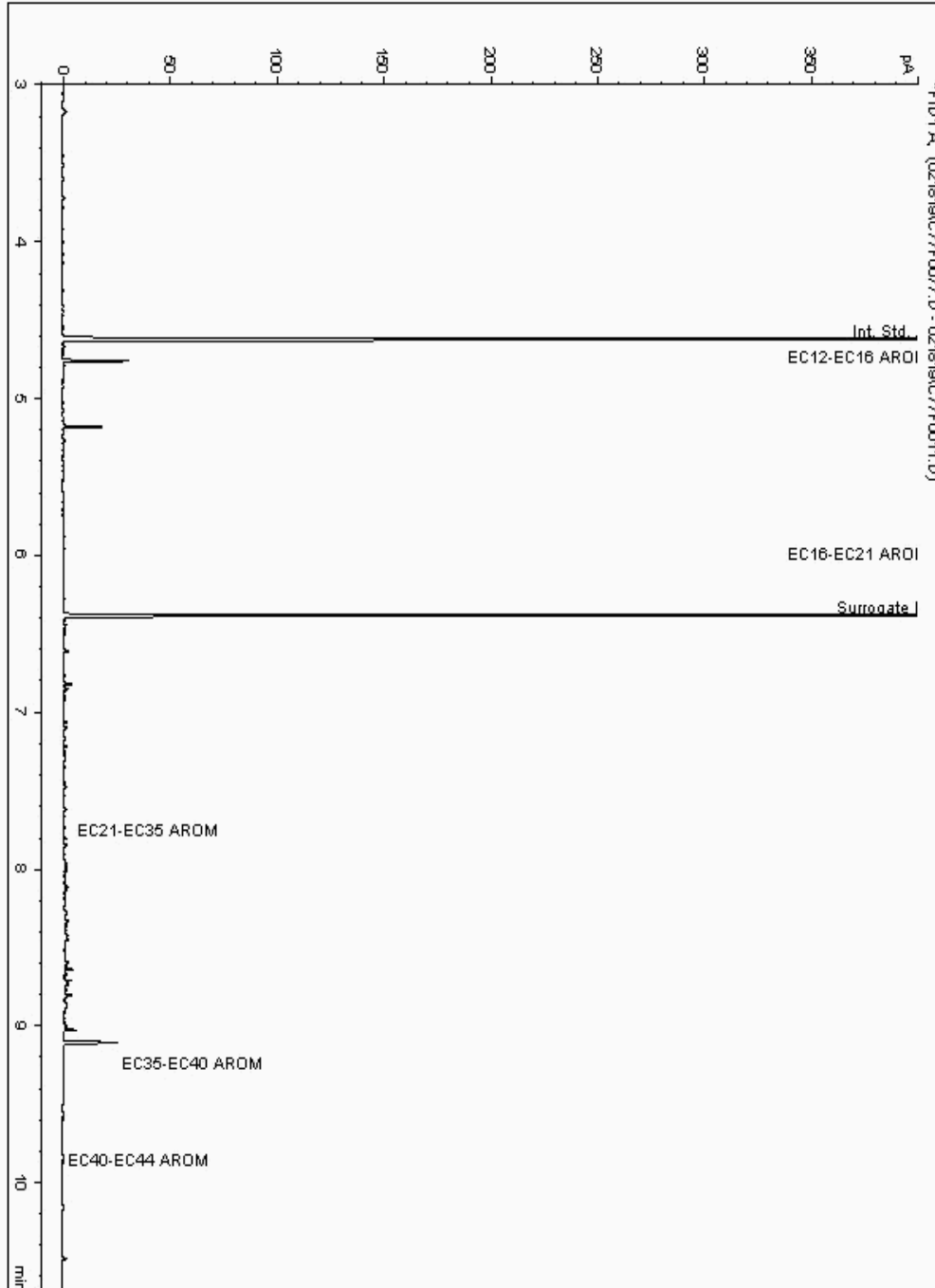
Analysis: EPH CWG (Aromatic) GC (S)
19345482

Sample No :
Sample ID : BH221

19,345,482Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111275-
Date Acquired : 2/20/2019 11:35:48 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

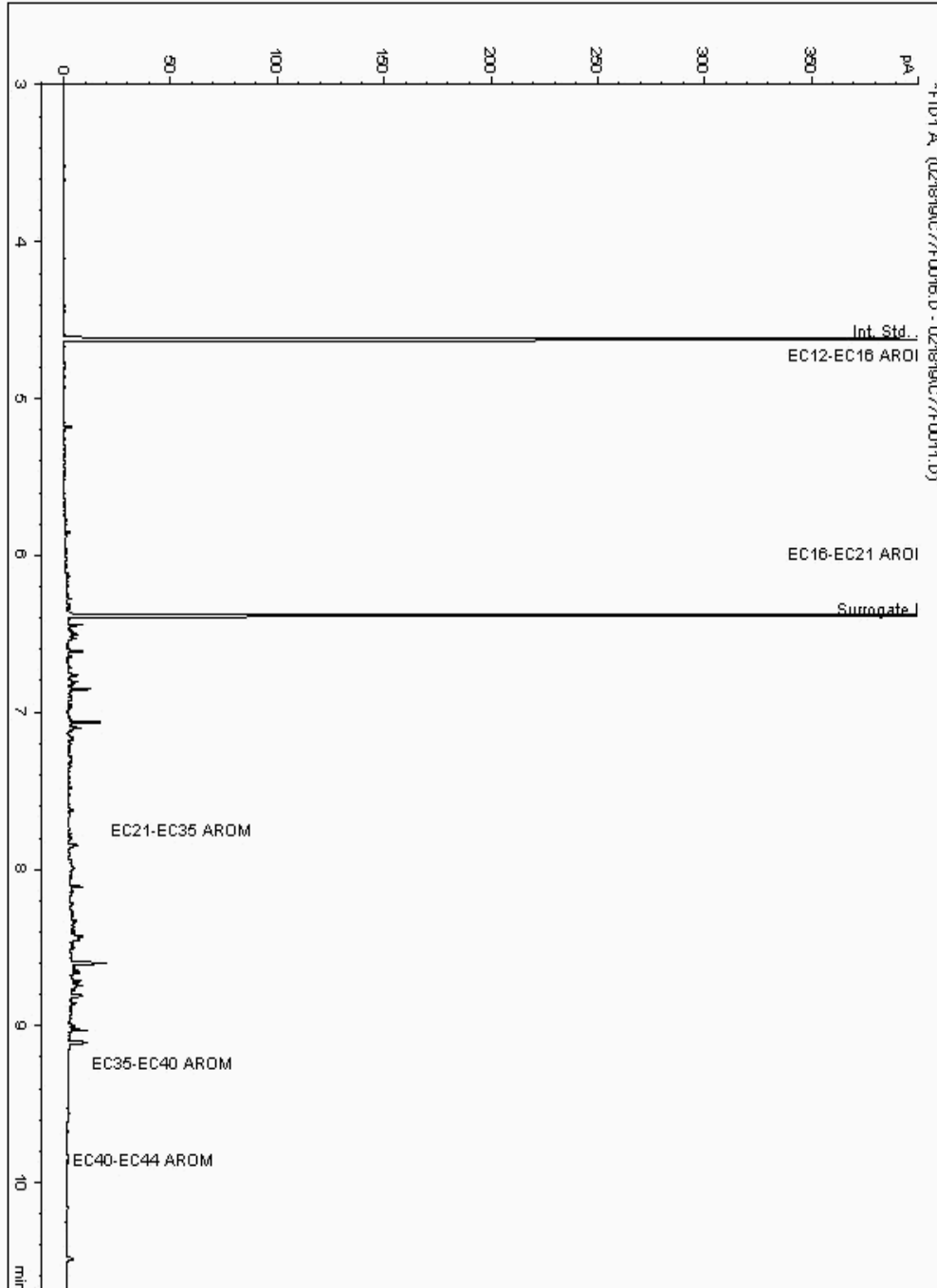
Analysis: EPH CWG (Aromatic) GC (S)
19345516

Sample No :
Sample ID : BH208

19,345,516 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110933-
Date Acquired : 2/18/2019 6:16:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

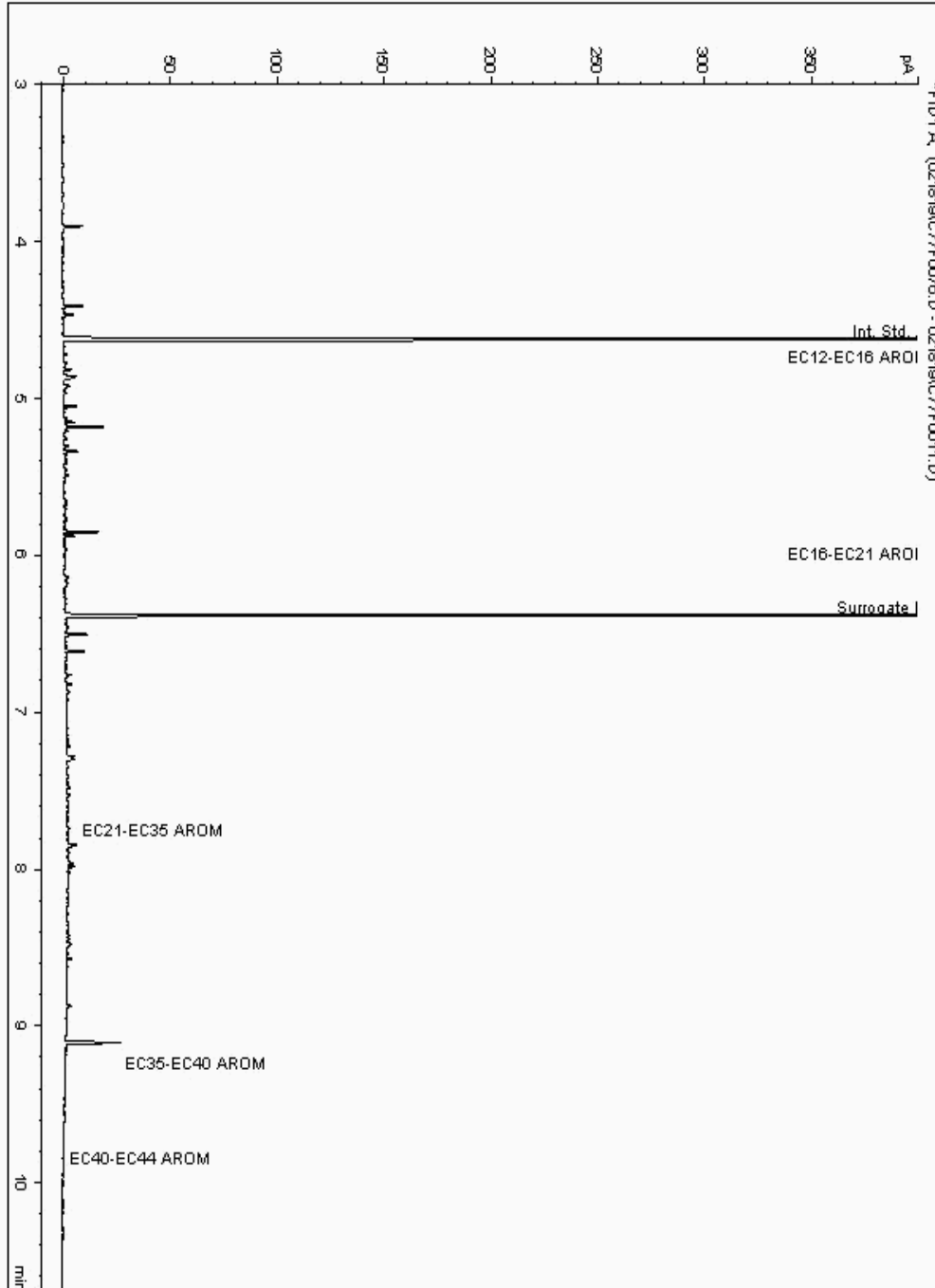
Analysis: EPH CWG (Aromatic) GC (S)
19345561

Sample No :
Sample ID : BH220

19,345,561 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111603-
Date Acquired : 2/20/2019 11:15:39 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

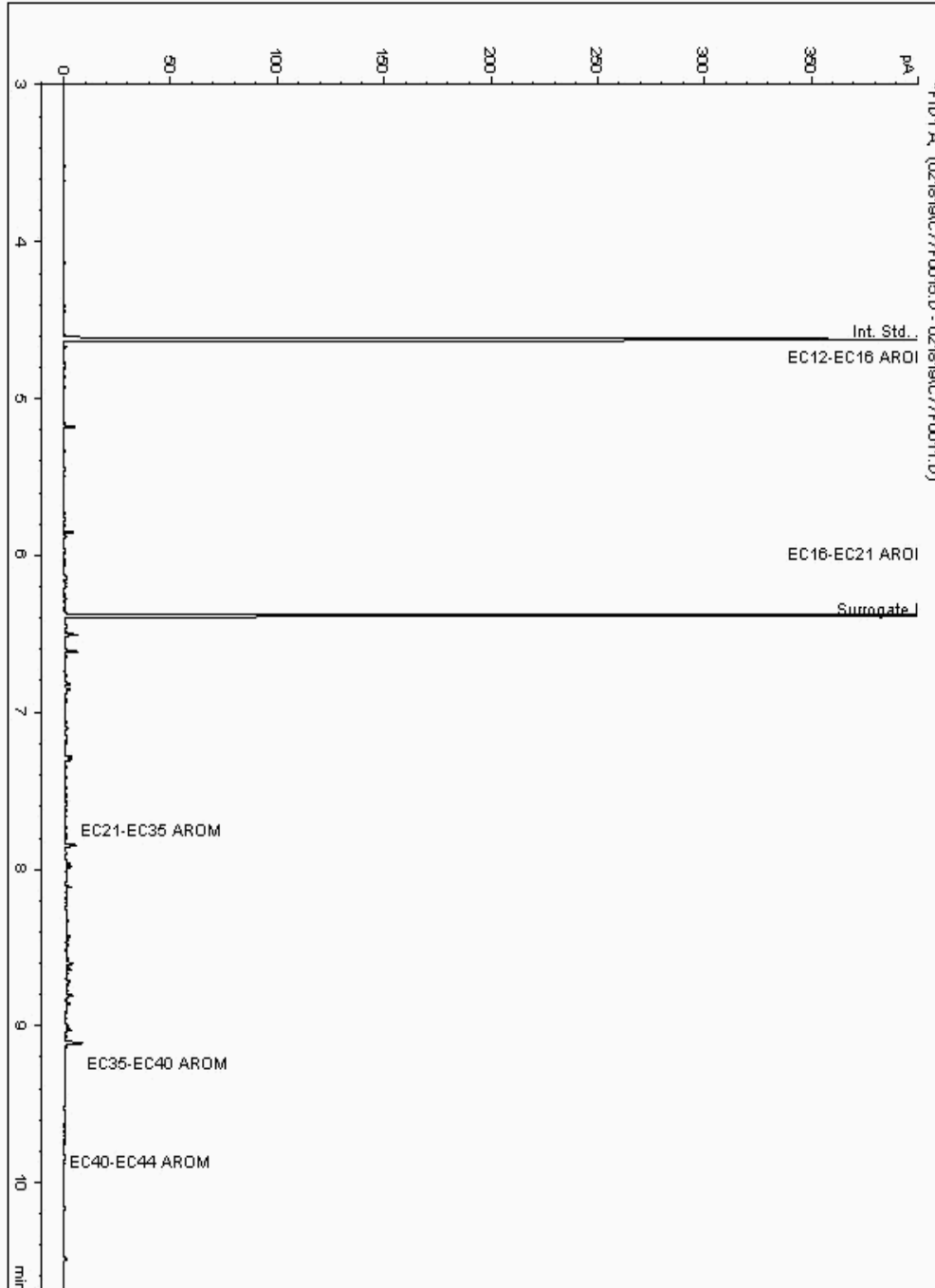
Analysis: EPH CWG (Aromatic) GC (S)
19345594

Sample No :
Sample ID : BH208

19,345,594 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110754-
Date Acquired : 2/18/2019 5:56:14 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

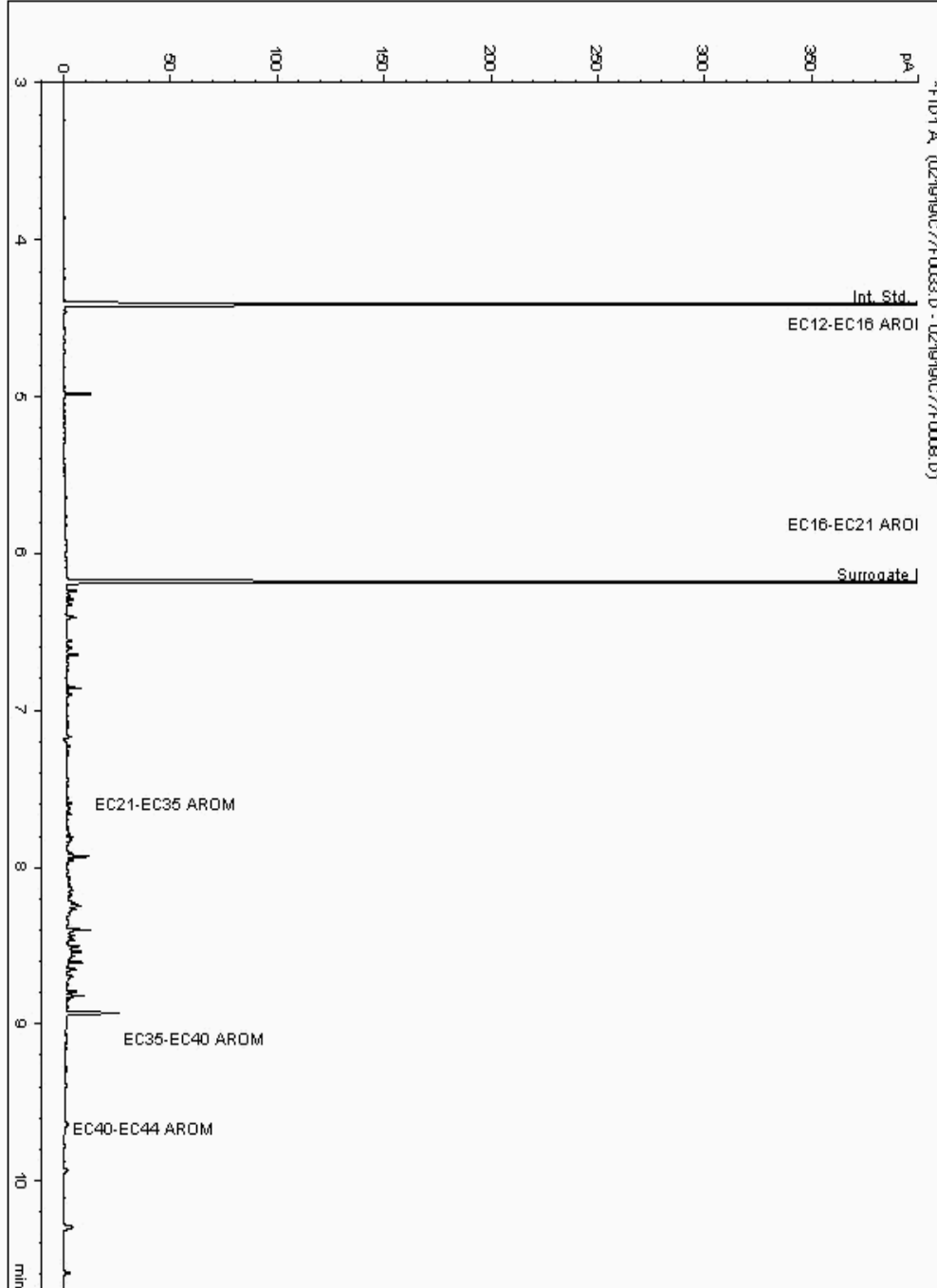
Analysis: EPH CWG (Aromatic) GC (S)
19345631

Sample No :
Sample ID : BH221

19,345,631 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111325-
Date Acquired : 19/02/2019 20:20:14 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

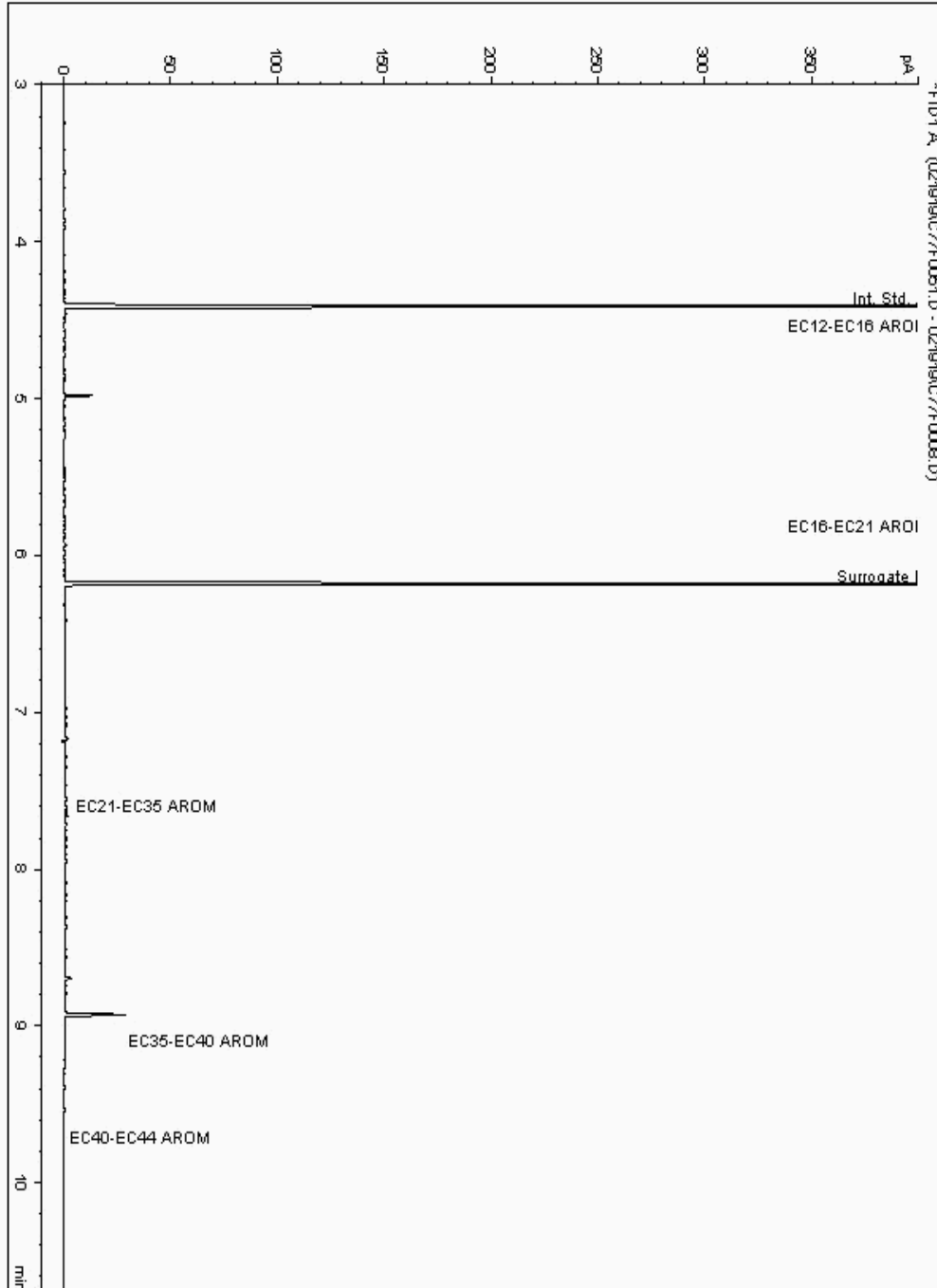
Analysis: EPH CWG (Aromatic) GC (S)
19345705

Sample No :
Sample ID : BH206

19,345,705 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109902-
Date Acquired : 20/02/2019 01:44:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

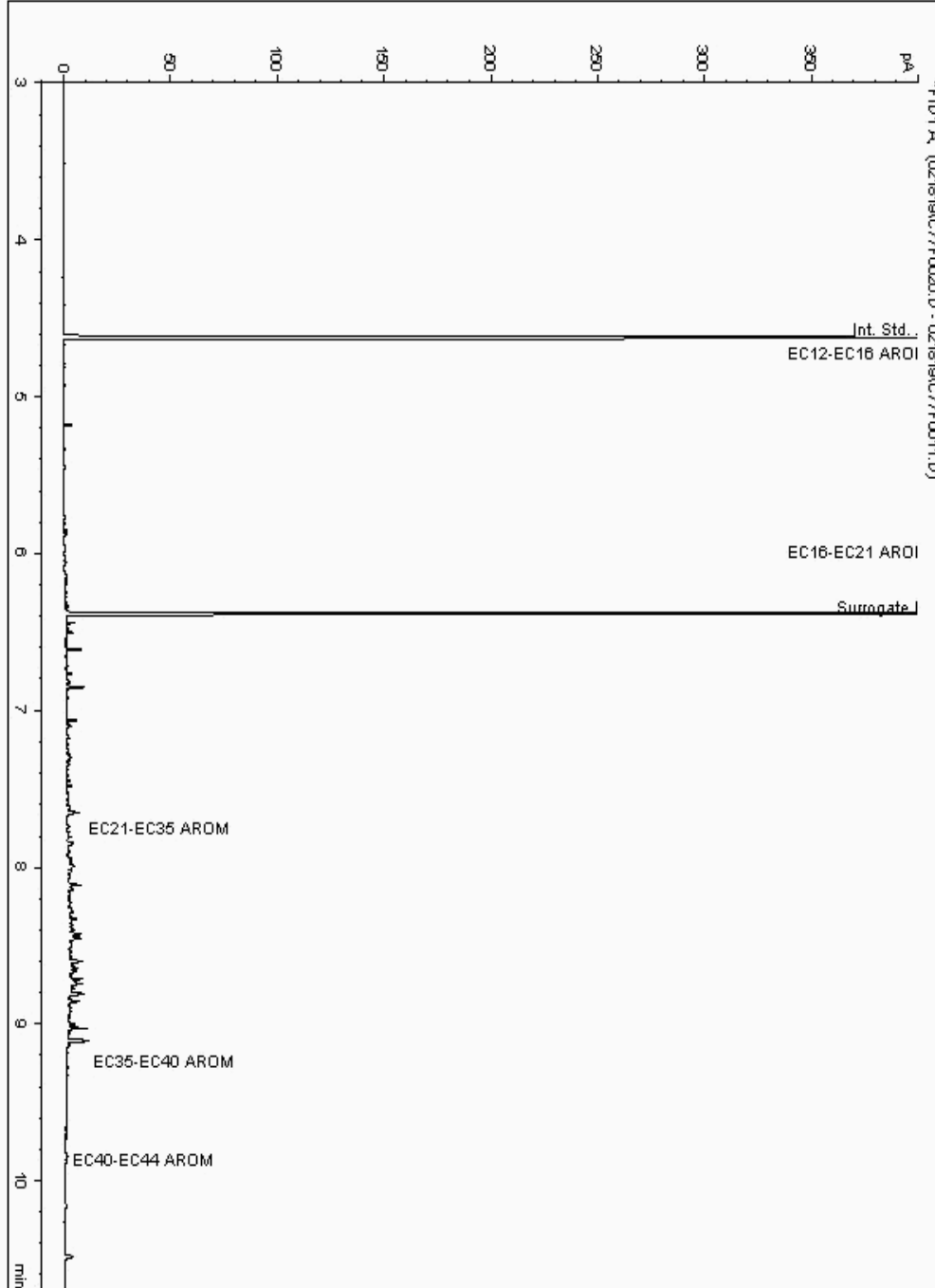
Analysis: EPH CWG (Aromatic) GC (S)
19345731

Sample No :
Sample ID : BH206

19,345,731 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109528-
Date Acquired : 2/18/2019 7:36:17 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

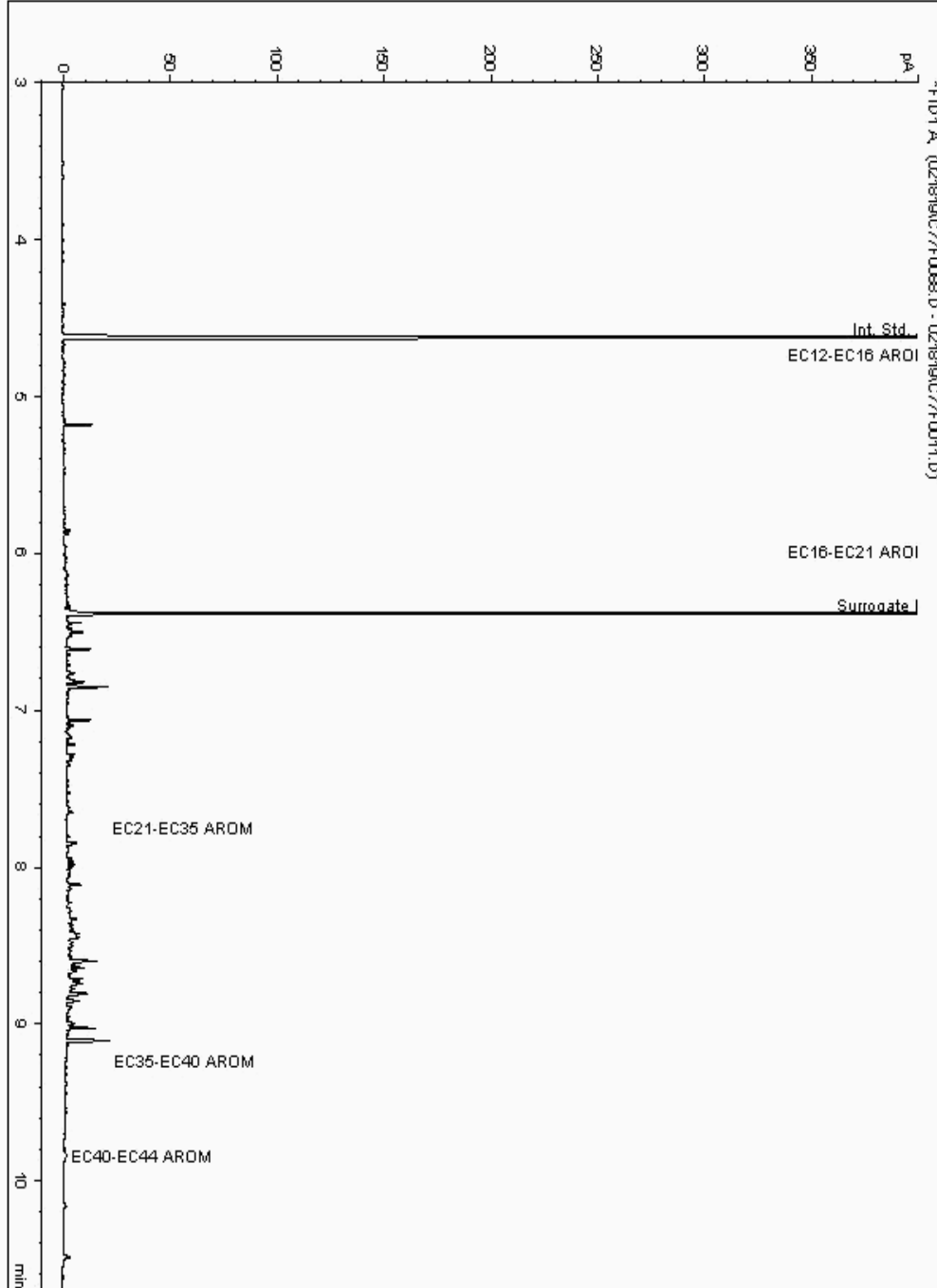
Analysis: EPH CWG (Aromatic) GC (S)
19345736

Sample No :
Sample ID : BH221

19,345,736Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112836-
Date Acquired : 2/20/2019 3:00:34 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

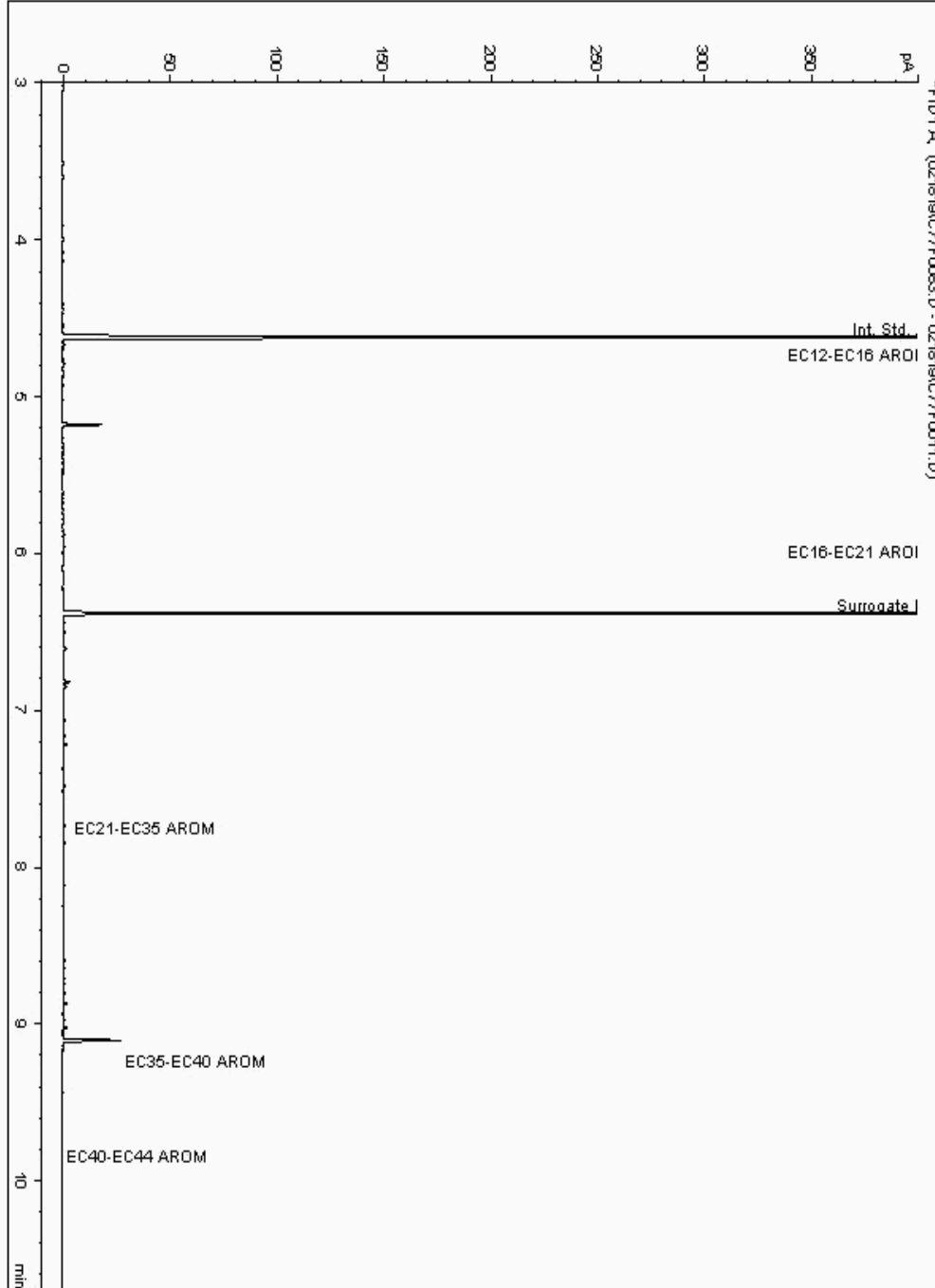
Analysis: EPH CWG (Aromatic) GC (S)
19345891

Sample No :
Sample ID : BH221

19,345,891 Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111353-
Date Acquired : 2/20/2019 1:19:39 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

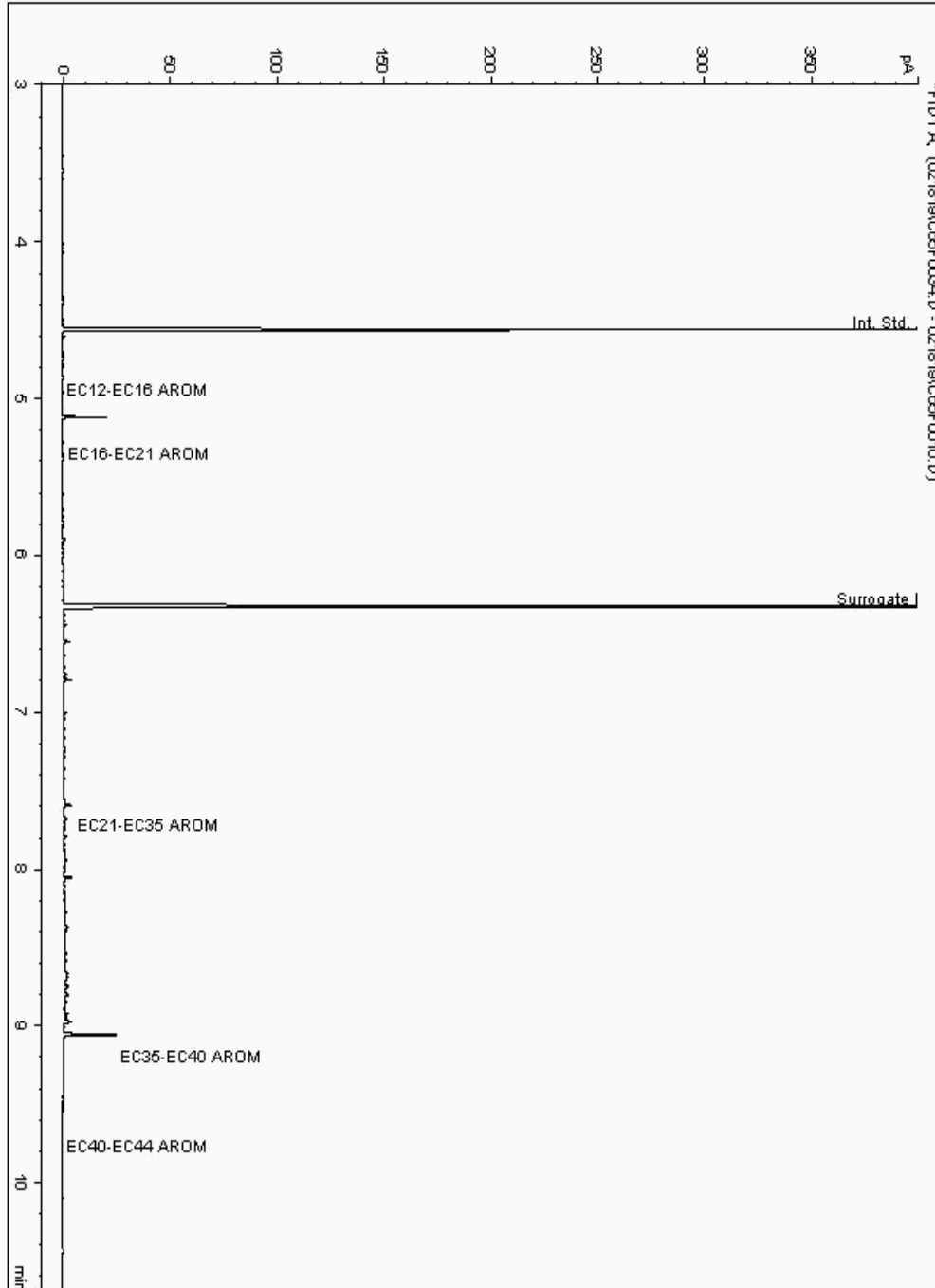
Analysis: EPH CWG (Aromatic) GC (S)
19345934

Sample No :
Sample ID : BH207

19,345,934 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110211-
Date Acquired : 18/02/2019 20:43:53 PM
Units : ppb
Dilution: BH207[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

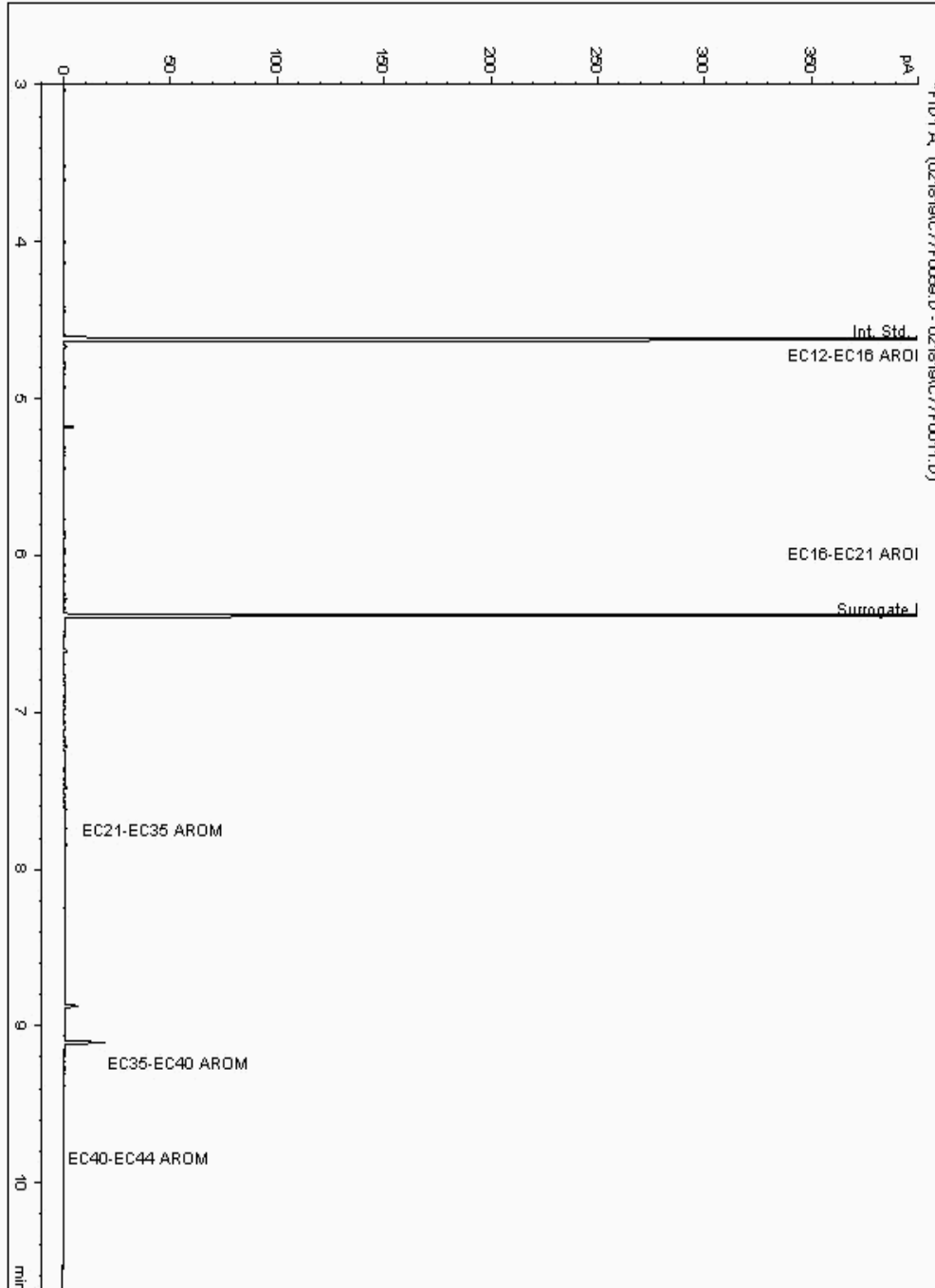
Analysis: EPH CWG (Aromatic) GC (S)
19345959

Sample No :
Sample ID : BH208

19,345,959 Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110981-
Date Acquired : 2/19/2019 7:21:22 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

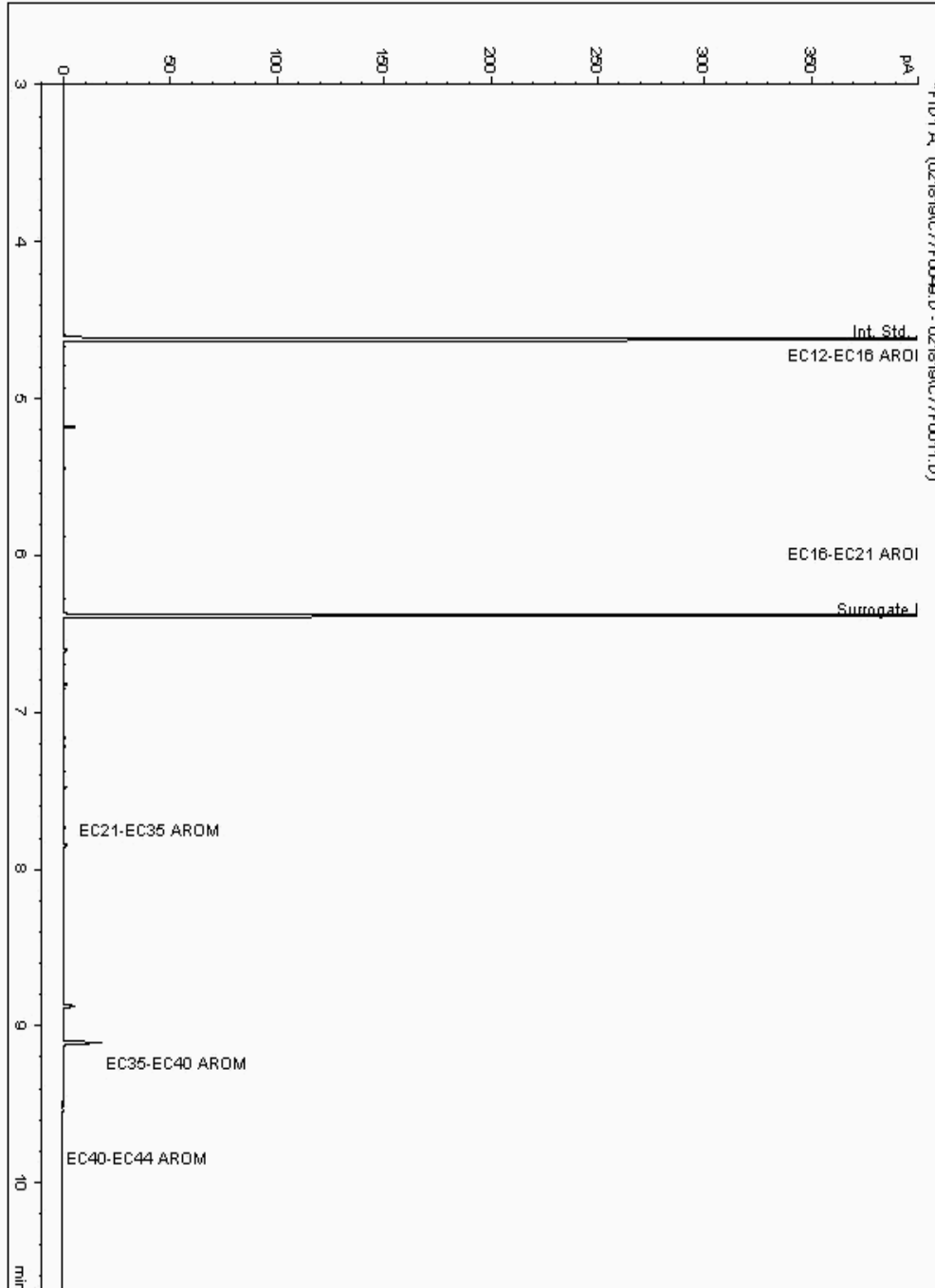
Analysis: EPH CWG (Aromatic) GC (S)
19346073

Sample No :
Sample ID : BH207

19,346,073 Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110379-
Date Acquired : 2/19/2019 4:17:30 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

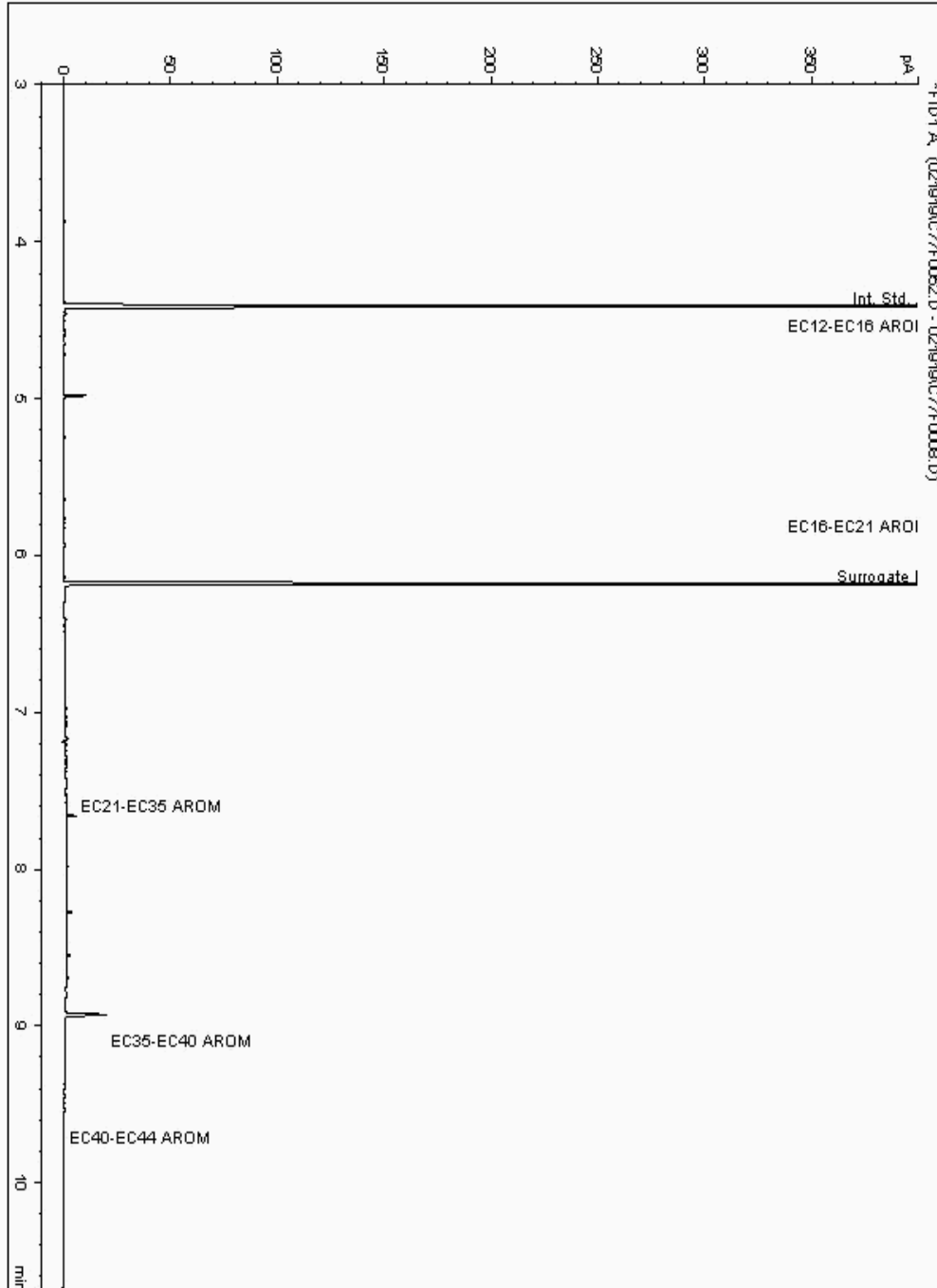
Analysis: EPH CWG (Aromatic) GC (S)
19346225

Sample No :
Sample ID : BH206

19,346,225 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109858-
Date Acquired : 20/02/2019 02:04:28 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

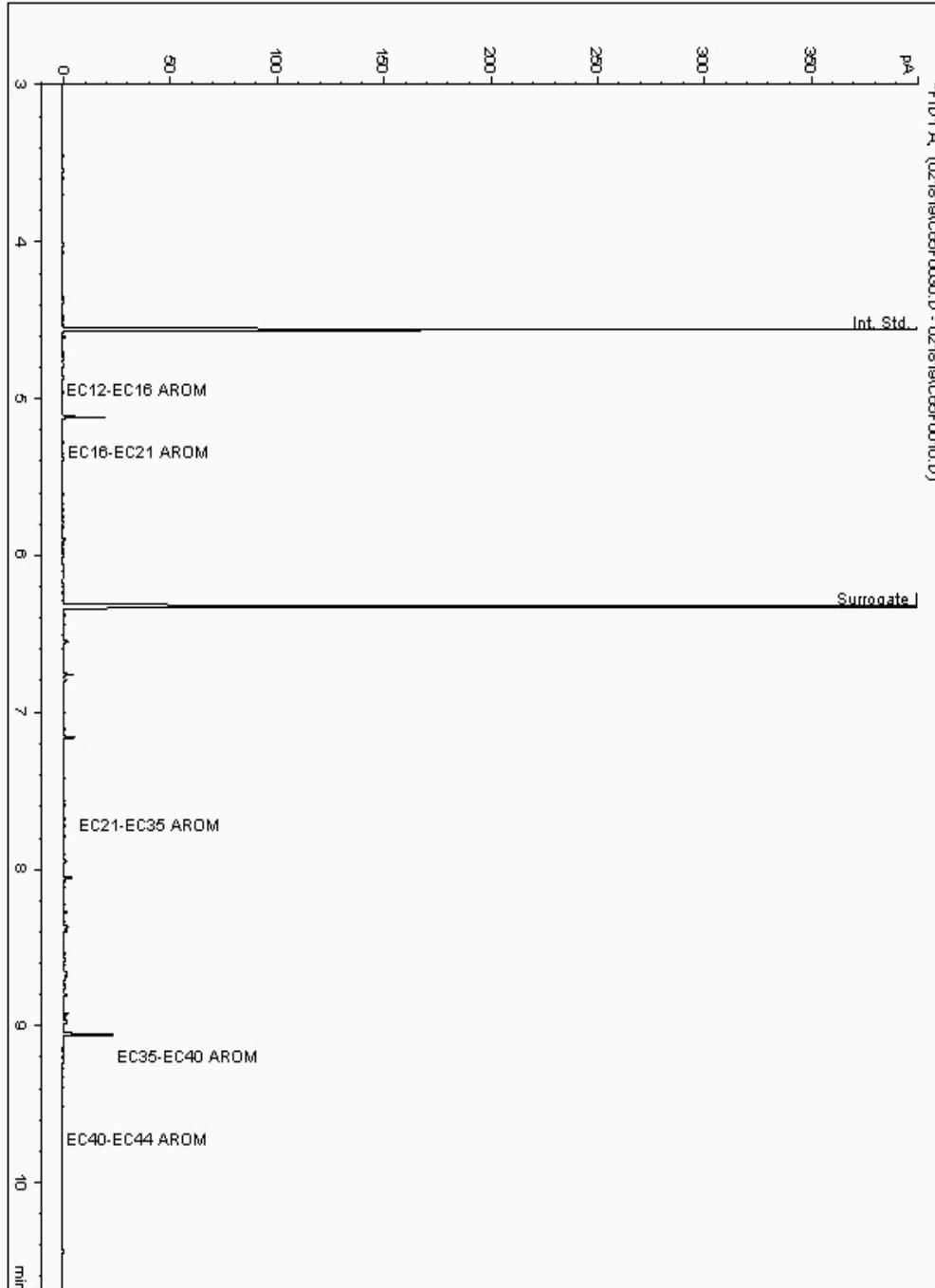
Analysis: EPH CWG (Aromatic) GC (S)
19346363

Sample No :
Sample ID : BH206

19,346,363 Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109643-
Date Acquired : 18/02/2019 19:30:06 PM
Units : ppb
Dilution: BH206[7.00 - 8.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

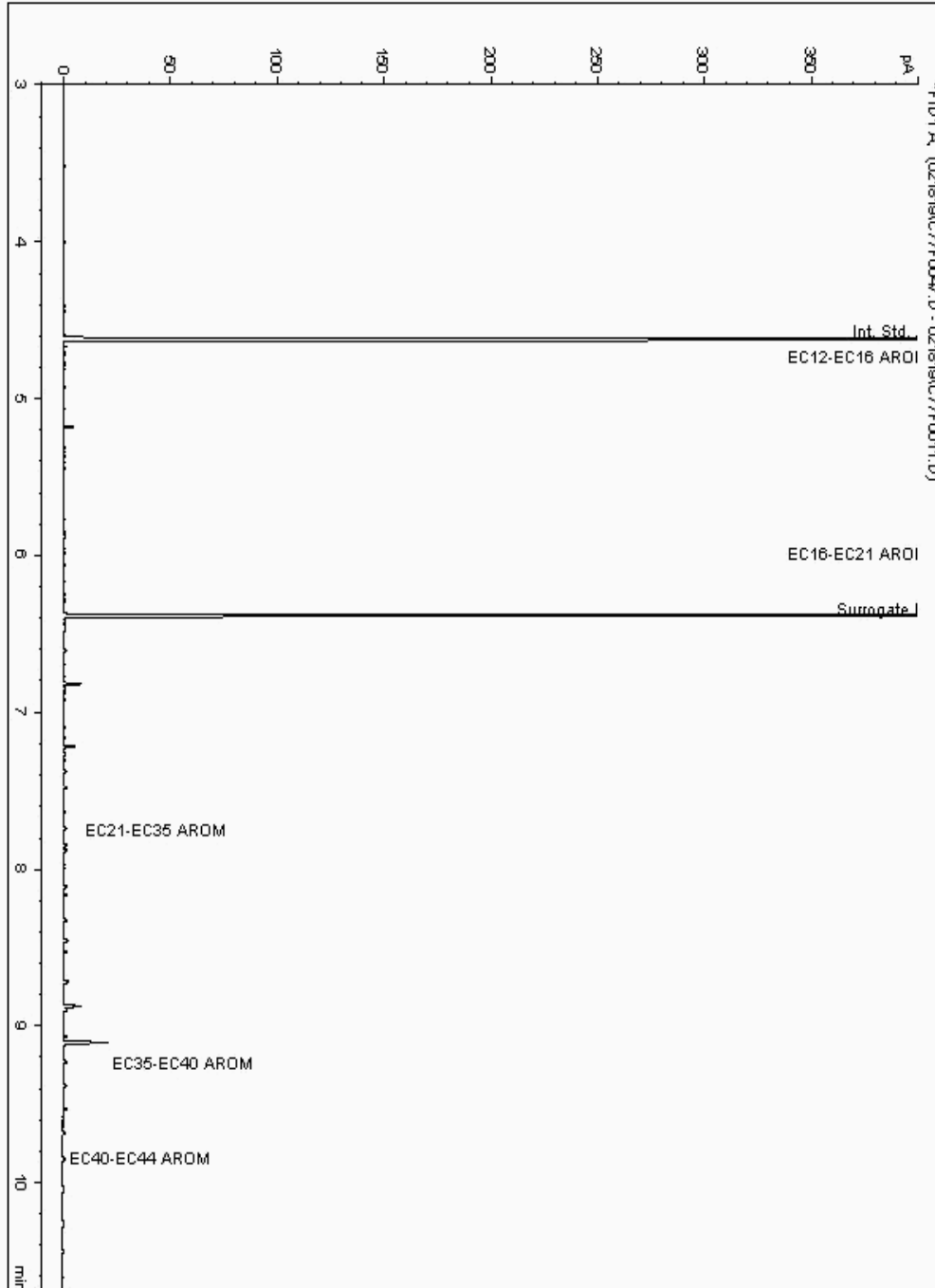
Analysis: EPH CWG (Aromatic) GC (S)
19346411

Sample No :
Sample ID : BH208

19,346,411 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111138-
Date Acquired : 2/19/2019 3:37:23 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

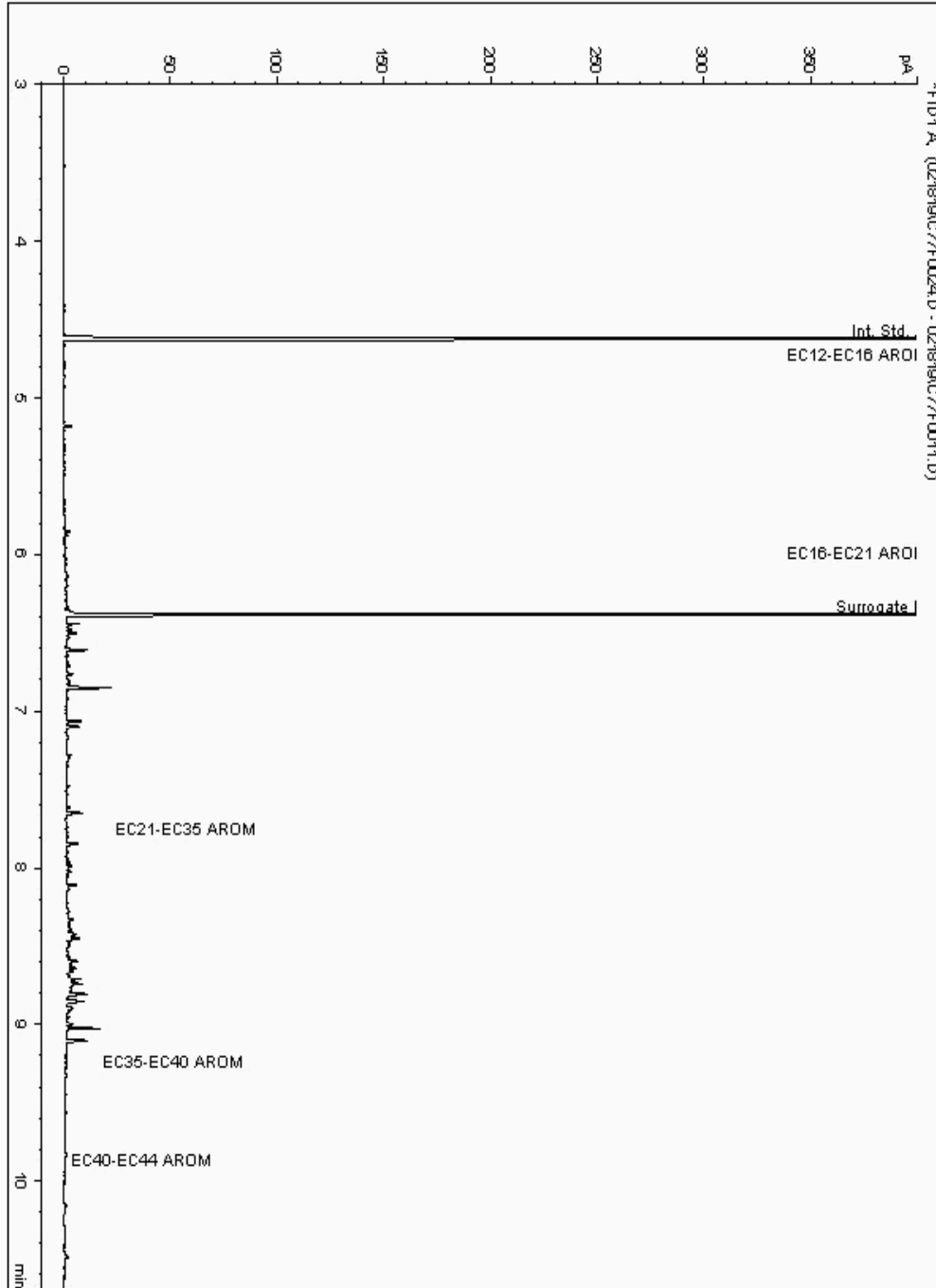
Analysis: EPH CWG (Aromatic) GC (S)
19346471

Sample No :
Sample ID : BH206

19,346,471 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109580-
Date Acquired : 2/18/2019 8:39:44 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

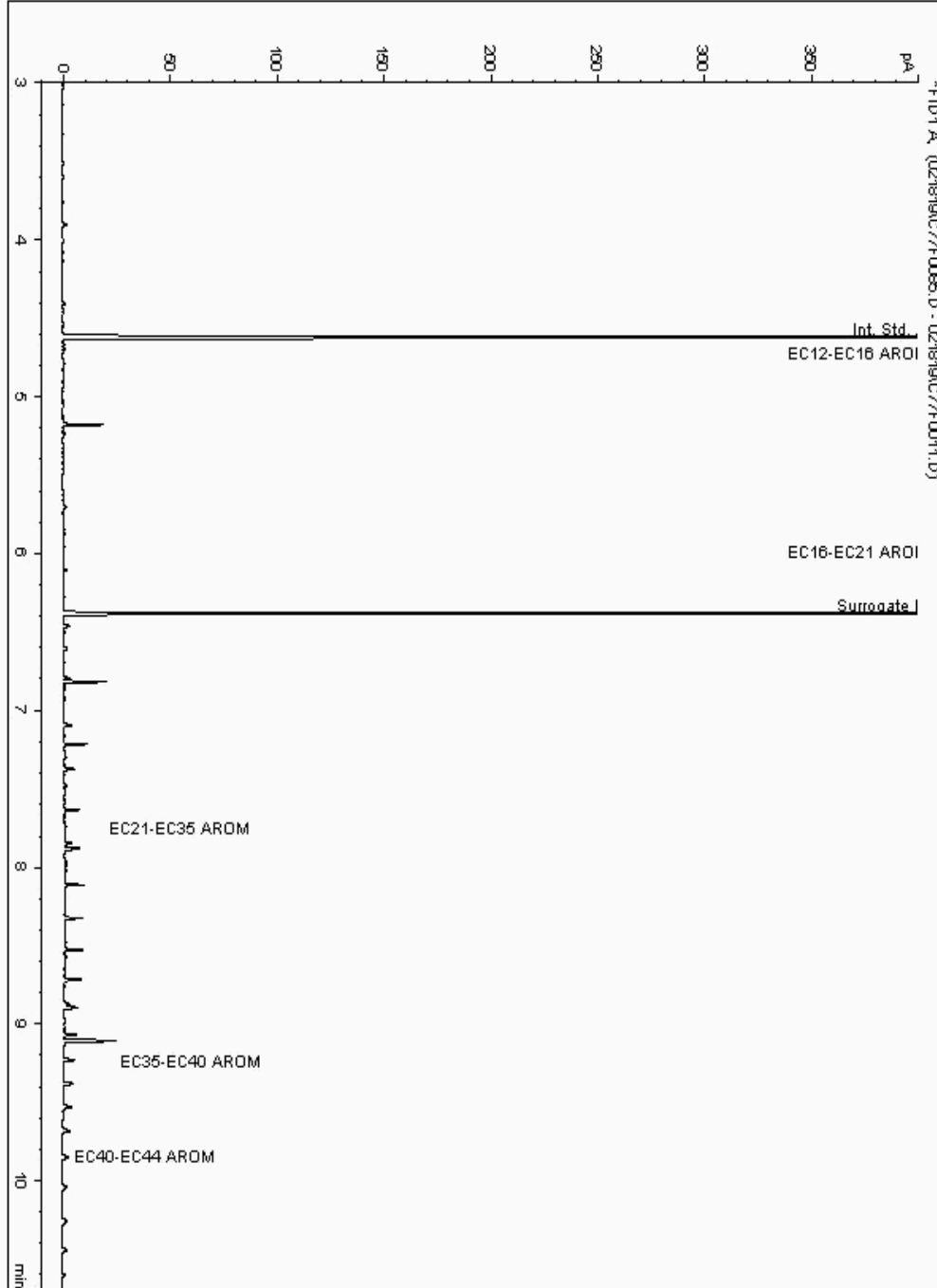
Analysis: EPH CWG (Aromatic) GC (S)
19346478

Sample No :
Sample ID : BH220

19,346,478 Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111550-
Date Acquired : 2/20/2019 2:00:06 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

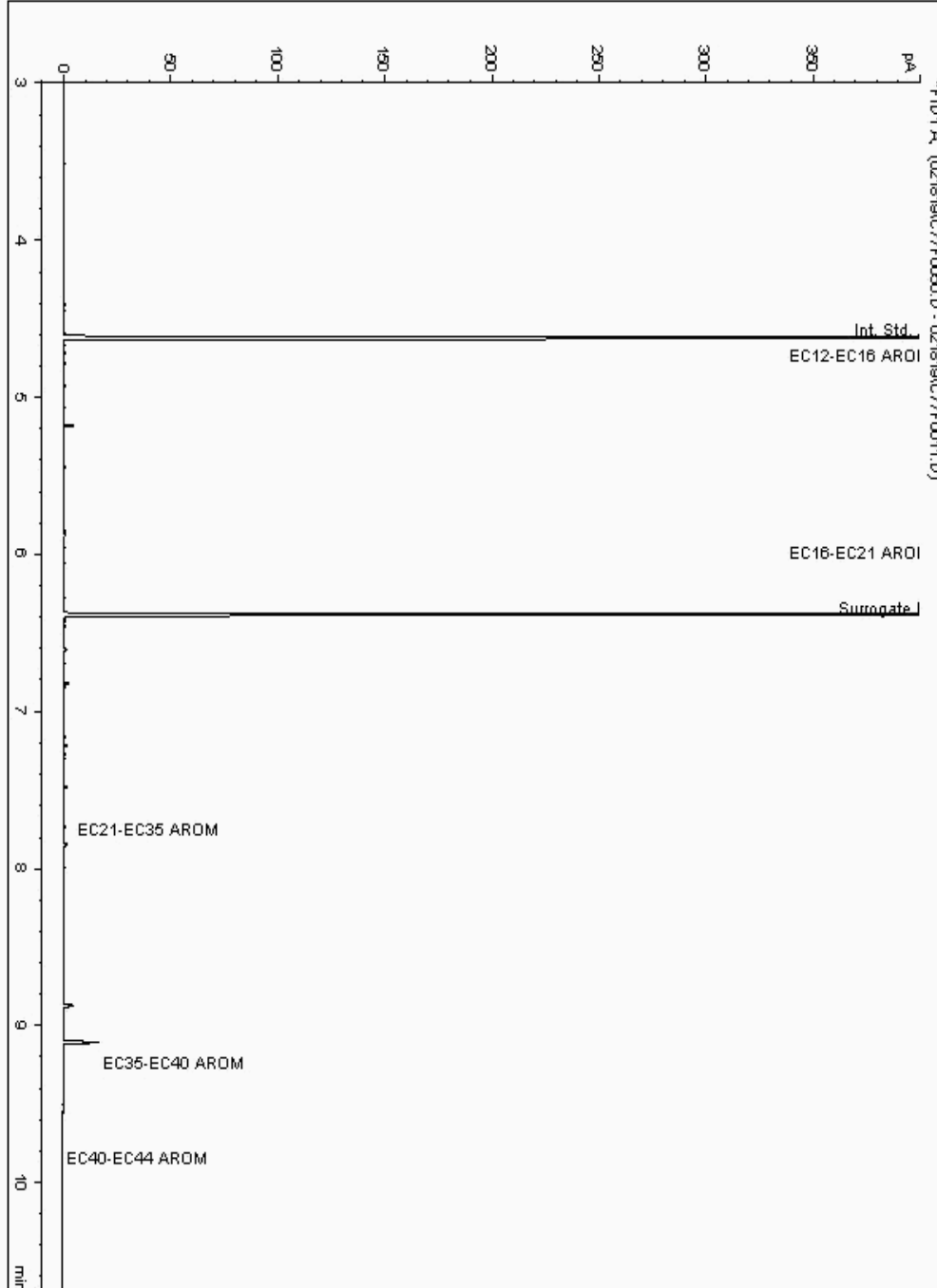
Analysis: EPH CWG (Aromatic) GC (S)
19346596

Sample No :
Sample ID : BH208

19,346,596 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111090-
Date Acquired : 2/19/2019 4:37:33 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

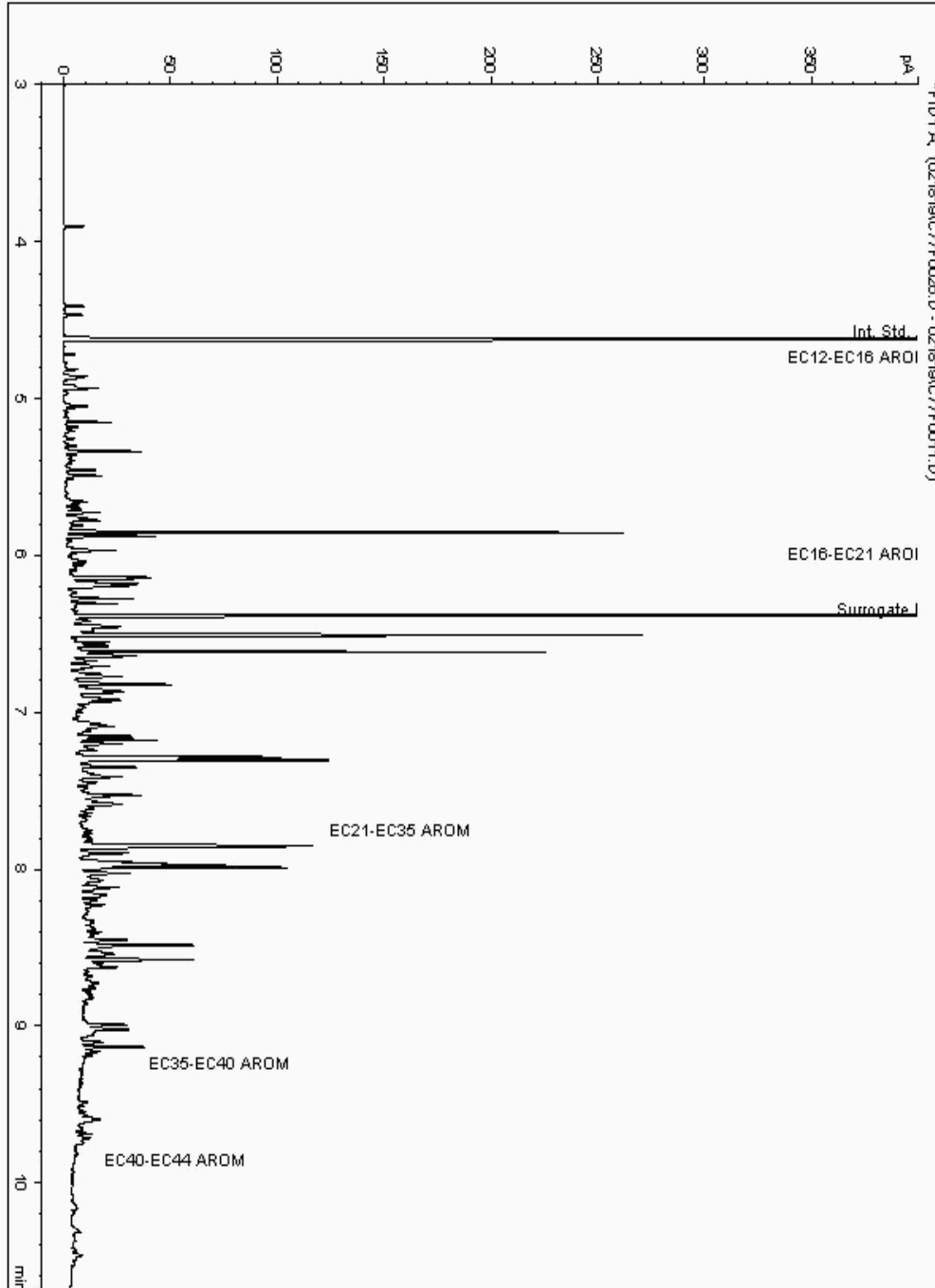
Analysis: EPH CWG (Aromatic) GC (S)
19346632

Sample No :
Sample ID : BH208

19,346,632Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110665-
Date Acquired : 2/18/2019 9:19:56 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

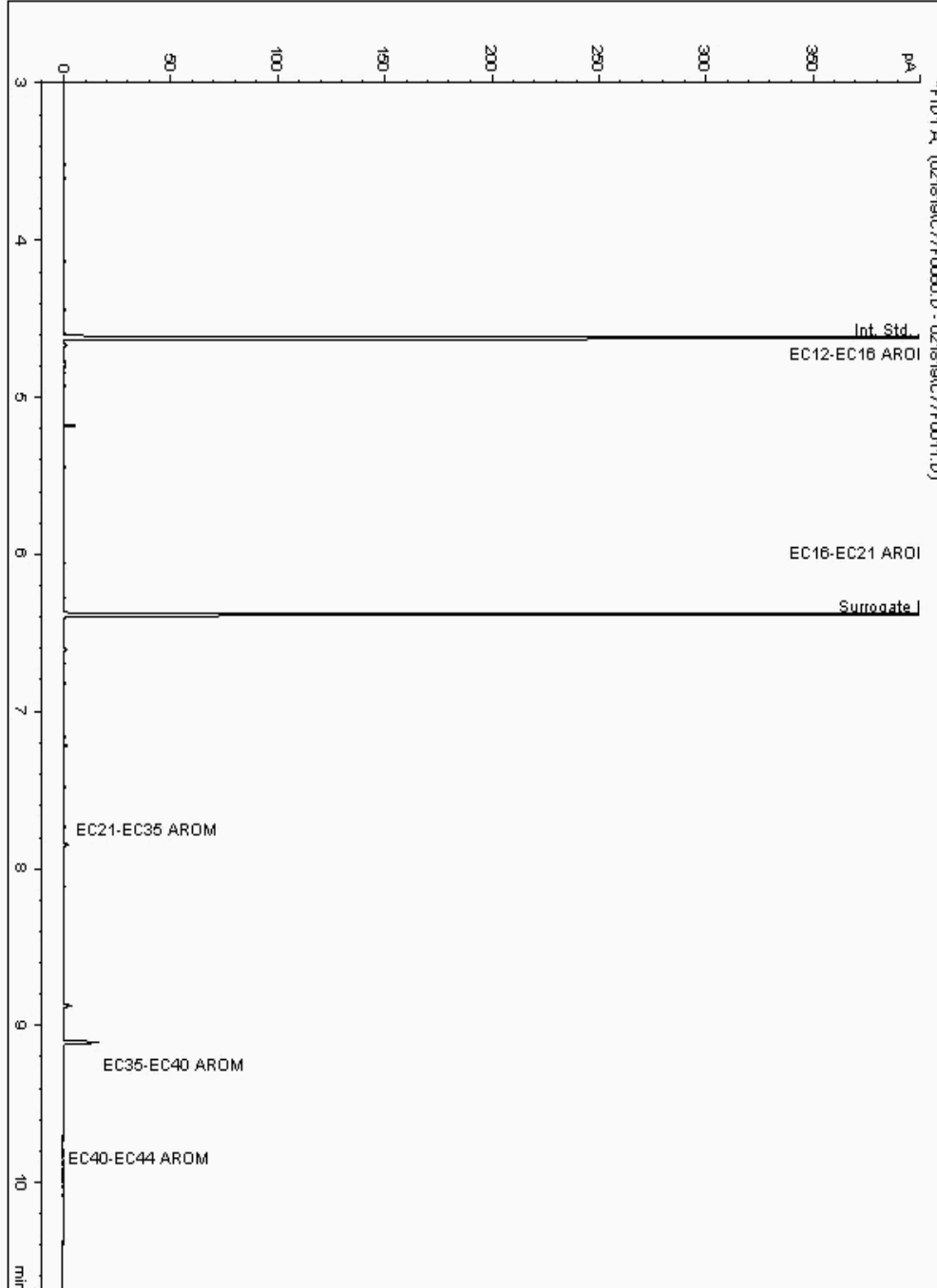
Analysis: EPH CWG (Aromatic) GC (S)
19346674

Sample No :
Sample ID : BH221

19,346,674 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111383-
Date Acquired : 2/19/2019 7:41:18 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

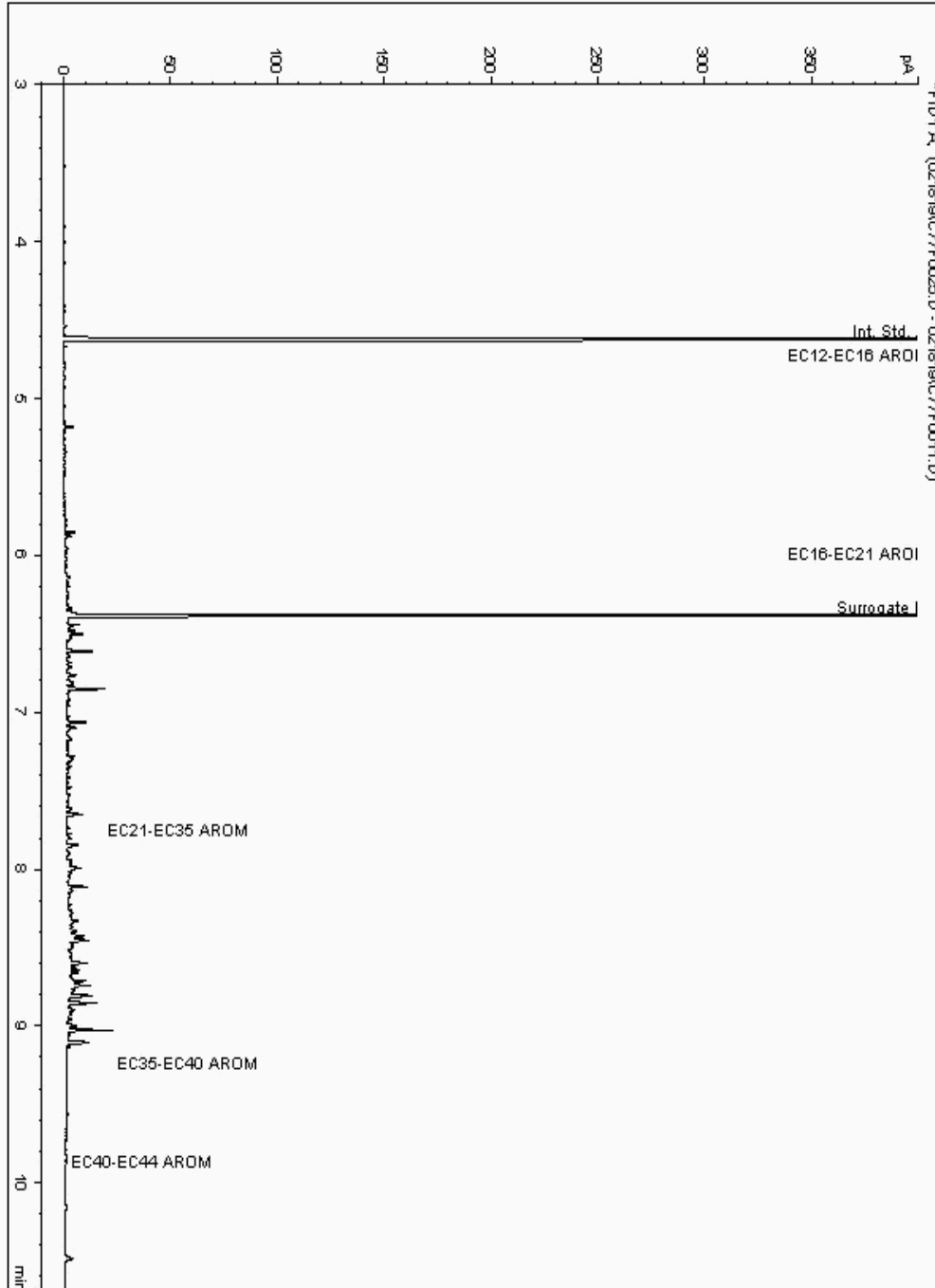
Analysis: EPH CWG (Aromatic) GC (S)
19346733

Sample No :
Sample ID : BH206

19,346,733Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109555-
Date Acquired : 2/18/2019 8:59:54 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

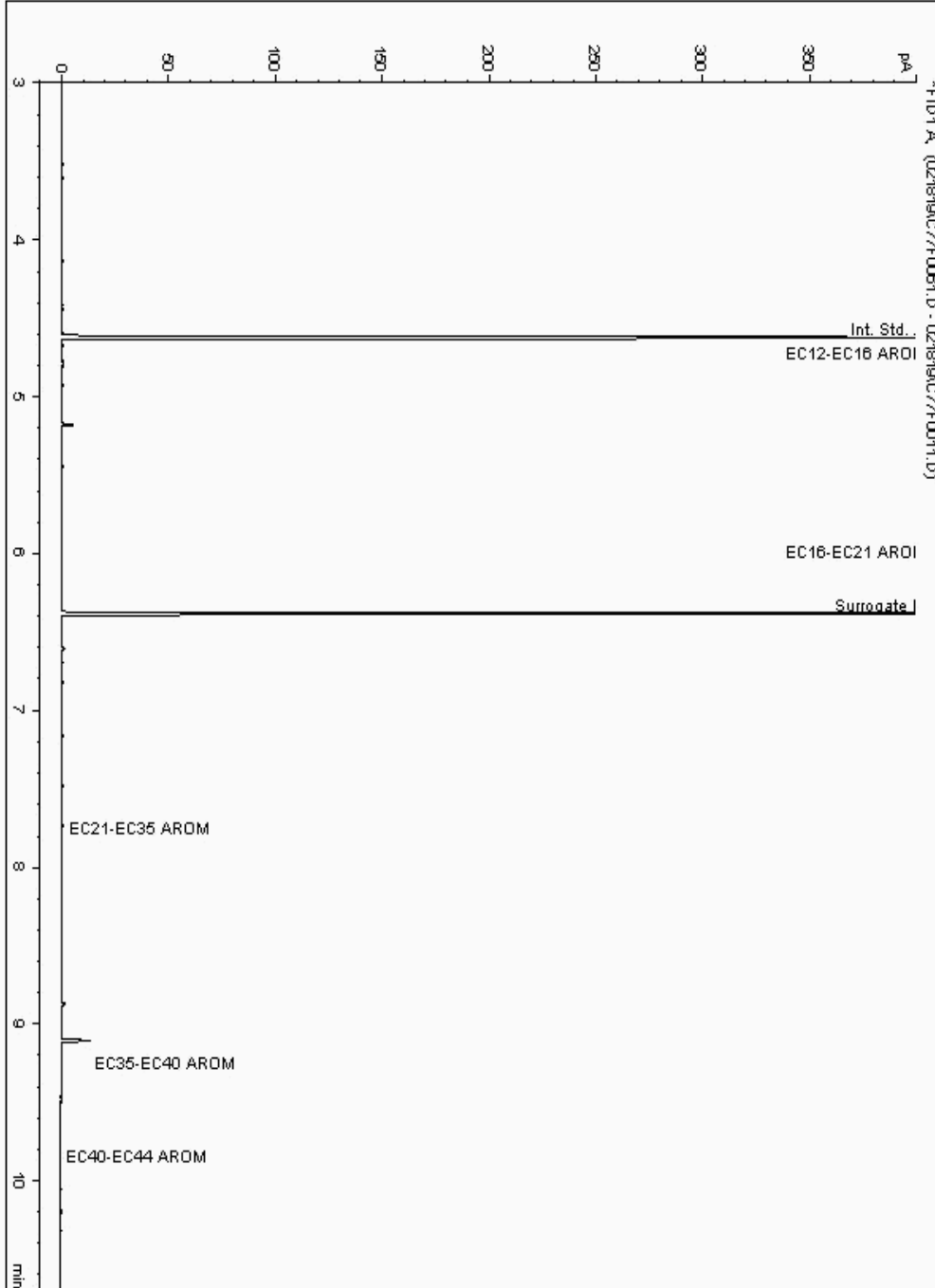
Analysis: EPH CWG (Aromatic) GC (S)
19346735

Sample No :
Sample ID : BH206

19,346,735 Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109711-
Date Acquired : 2/19/2019 8:01:14 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

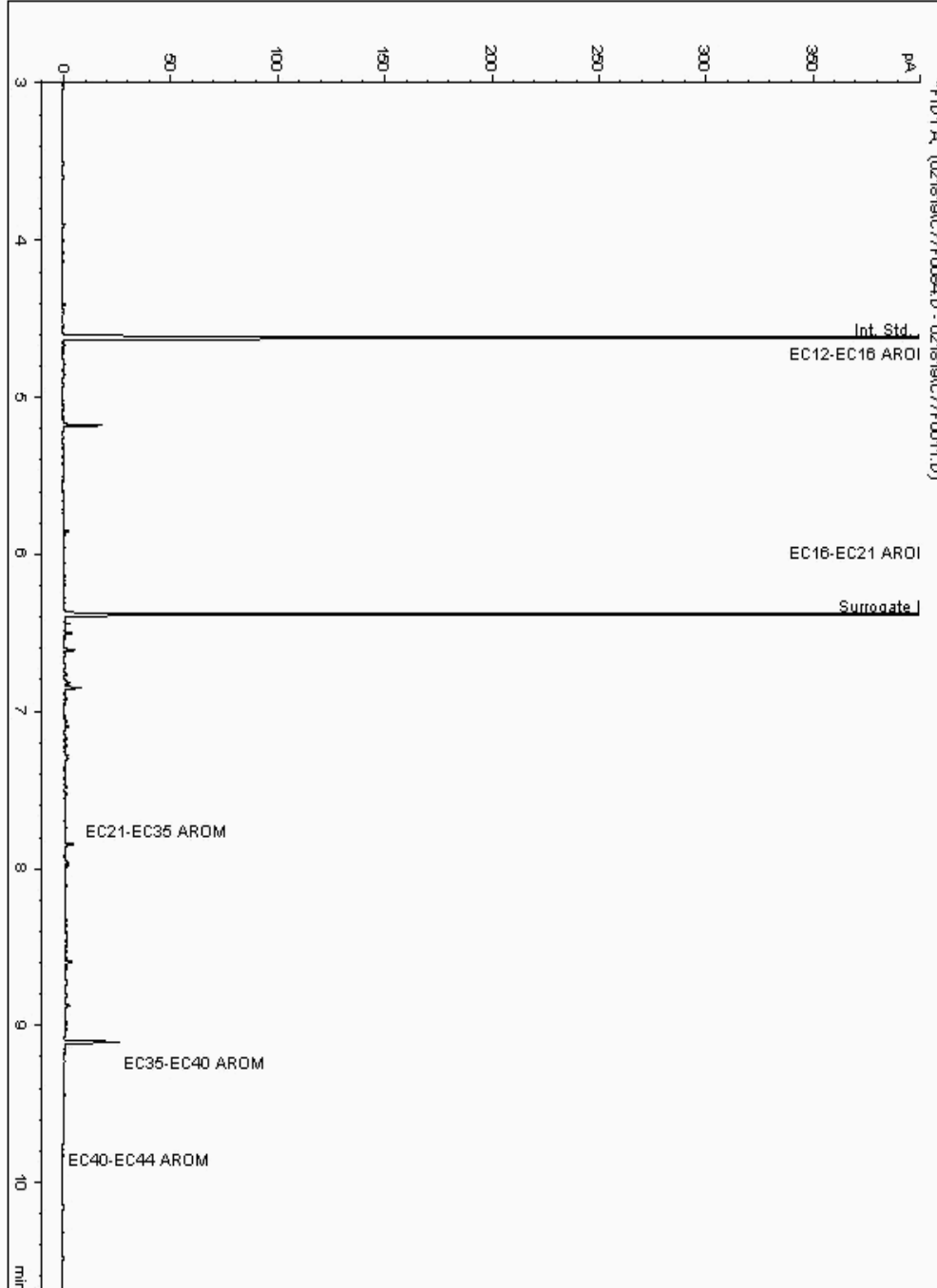
Analysis: EPH CWG (Aromatic) GC (S)
19346746

Sample No :
Sample ID : BH220

19,346,746Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111629-
Date Acquired : 2/20/2019 1:39:57 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

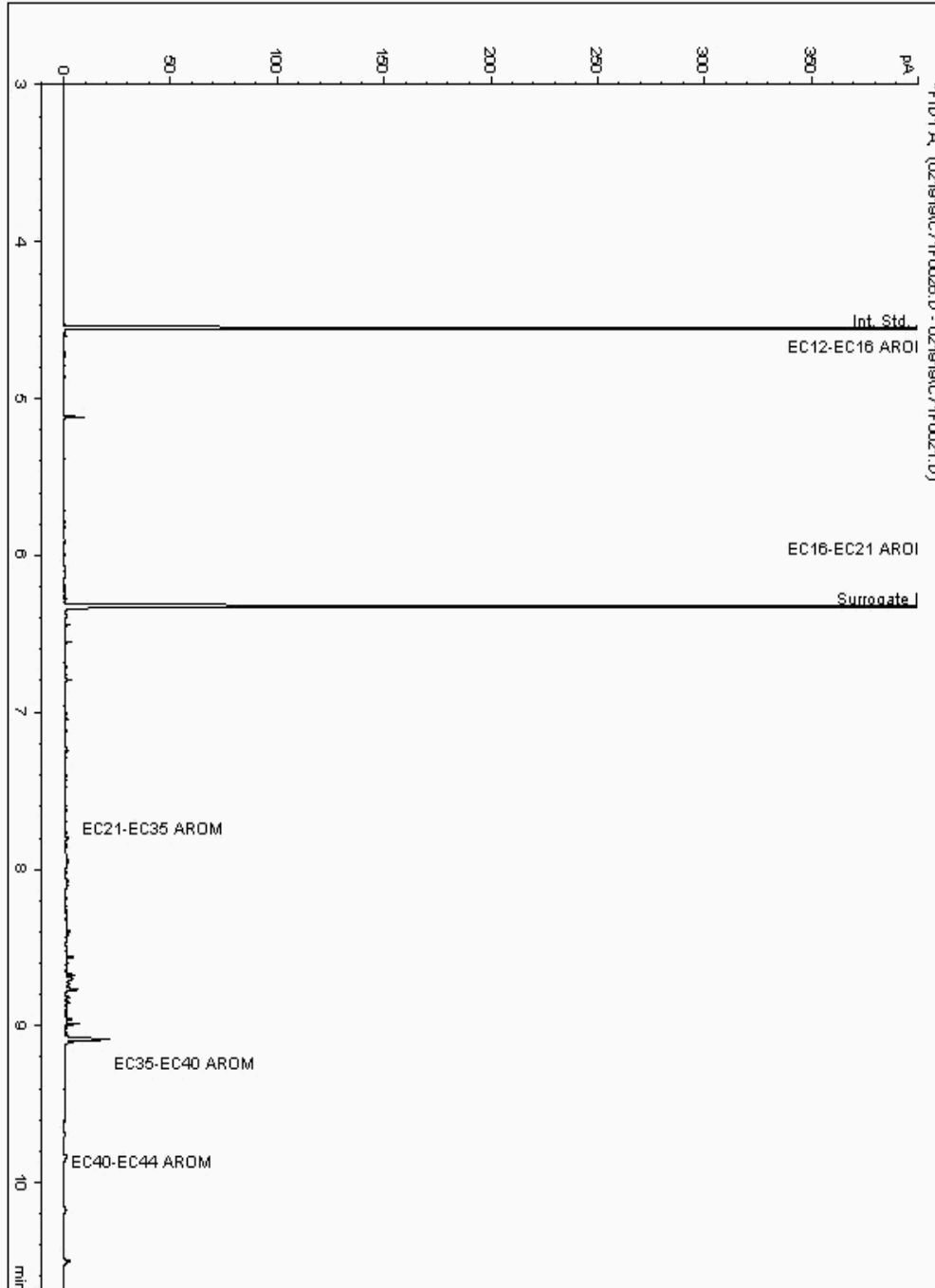
Analysis: EPH CWG (Aromatic) GC (S)
19346792

Sample No :
Sample ID : BH221

19,346,792 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111250-
Date Acquired : 19/02/2019 19:03:32 PM
Units : ppb
Dilution: BH221[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

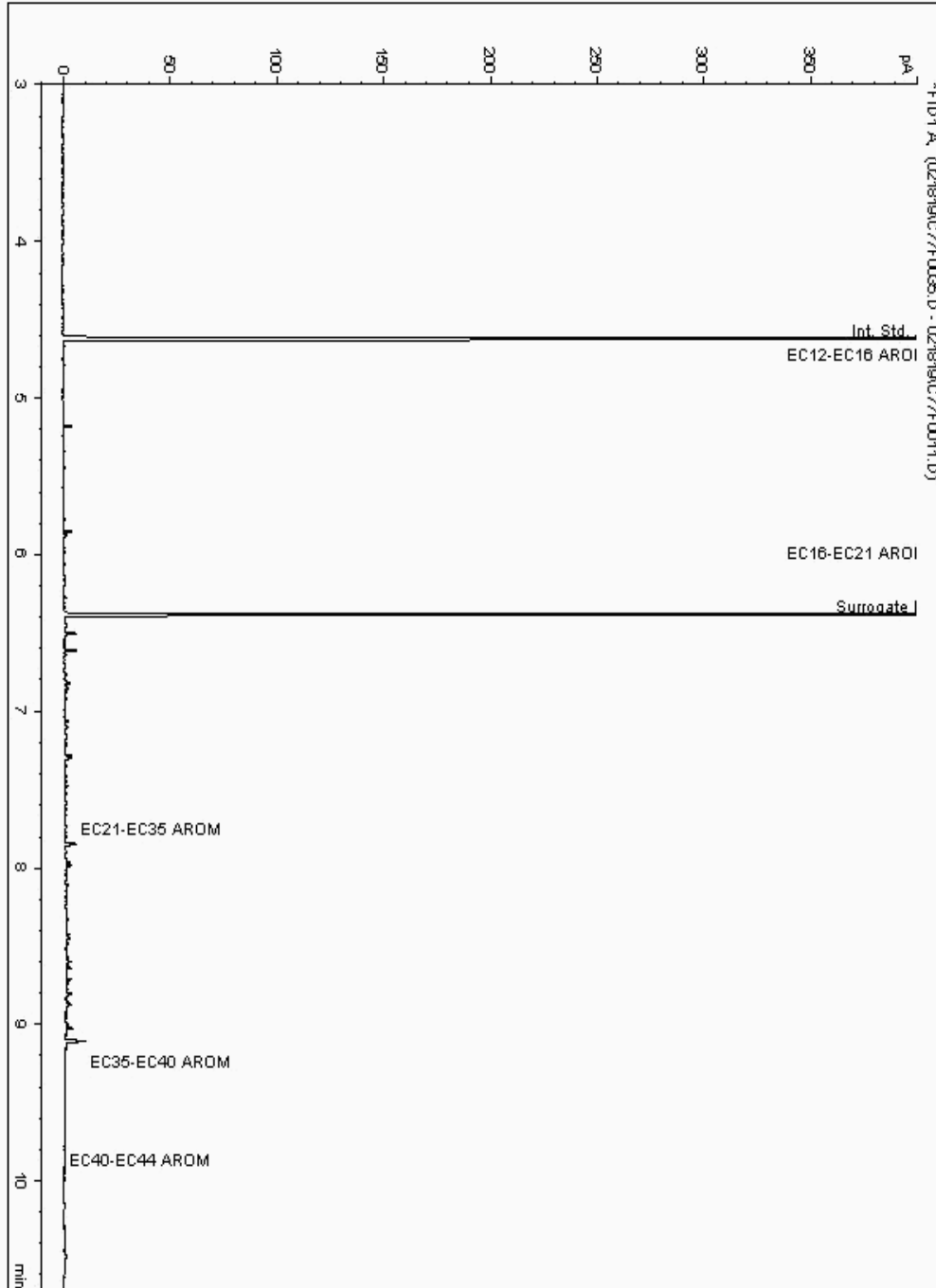
Analysis: EPH CWG (Aromatic) GC (S)
19346814

Sample No :
Sample ID : BH208

19,346,814 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110802-
Date Acquired : 2/18/2019 11:55:51 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

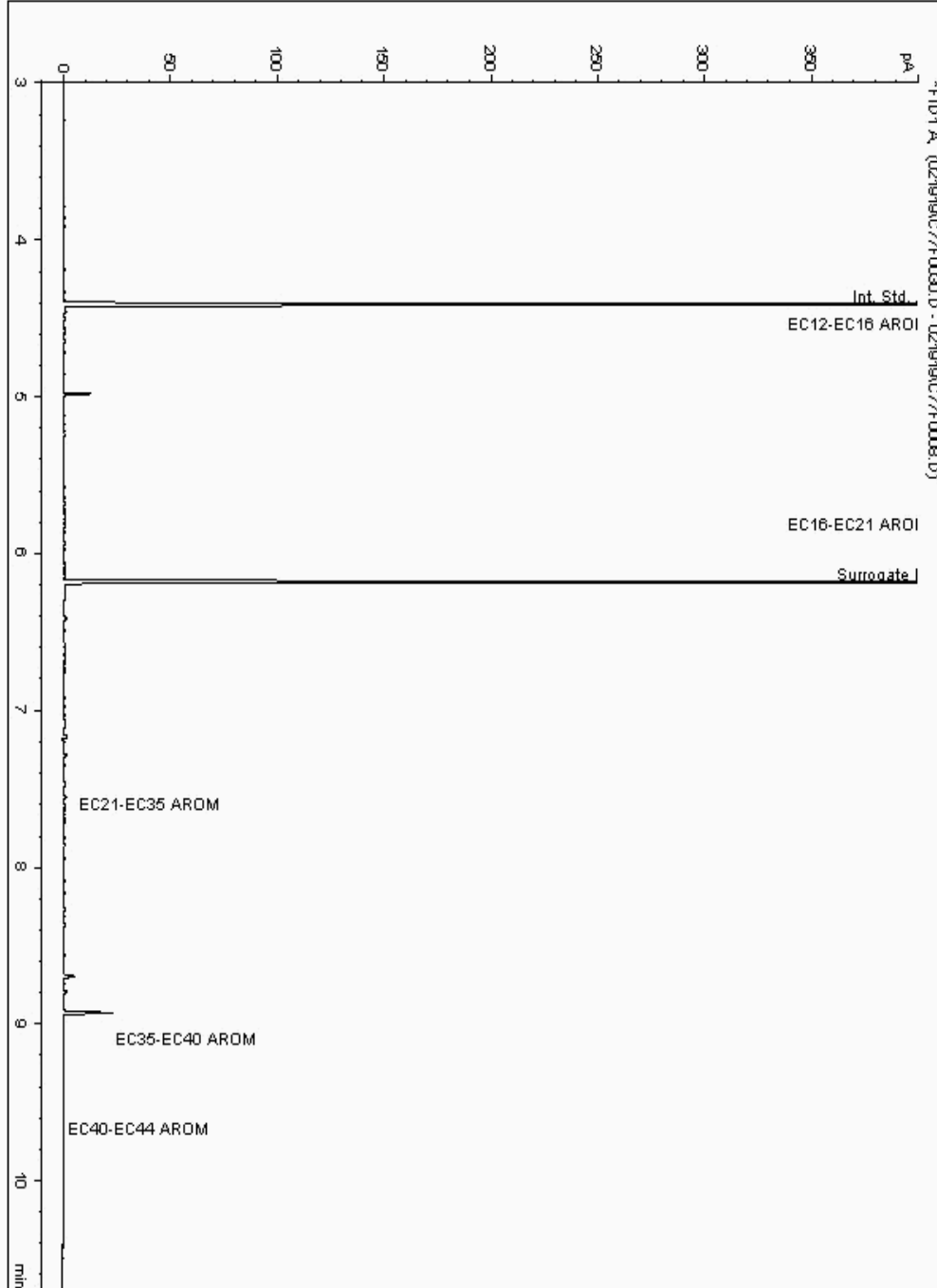
Analysis: EPH CWG (Aromatic) GC (S)
19346847

Sample No :
Sample ID : BH207

19,346,847Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110620-
Date Acquired : 19/02/2019 19:19:48 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

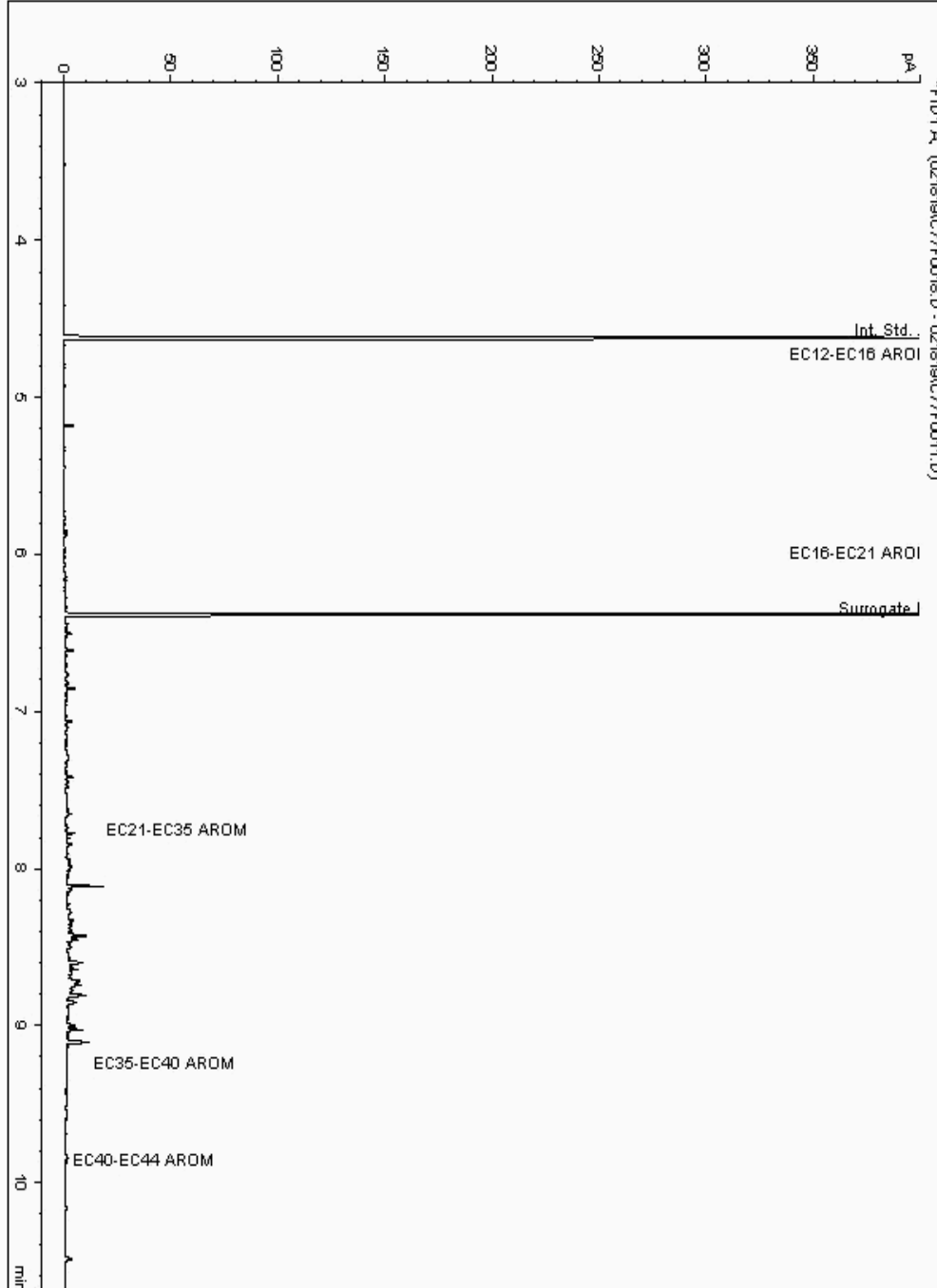
Analysis: EPH CWG (Aromatic) GC (S)
19346911

Sample No :
Sample ID : BH206

19,346,911 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109503-
Date Acquired : 2/18/2019 6:56:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

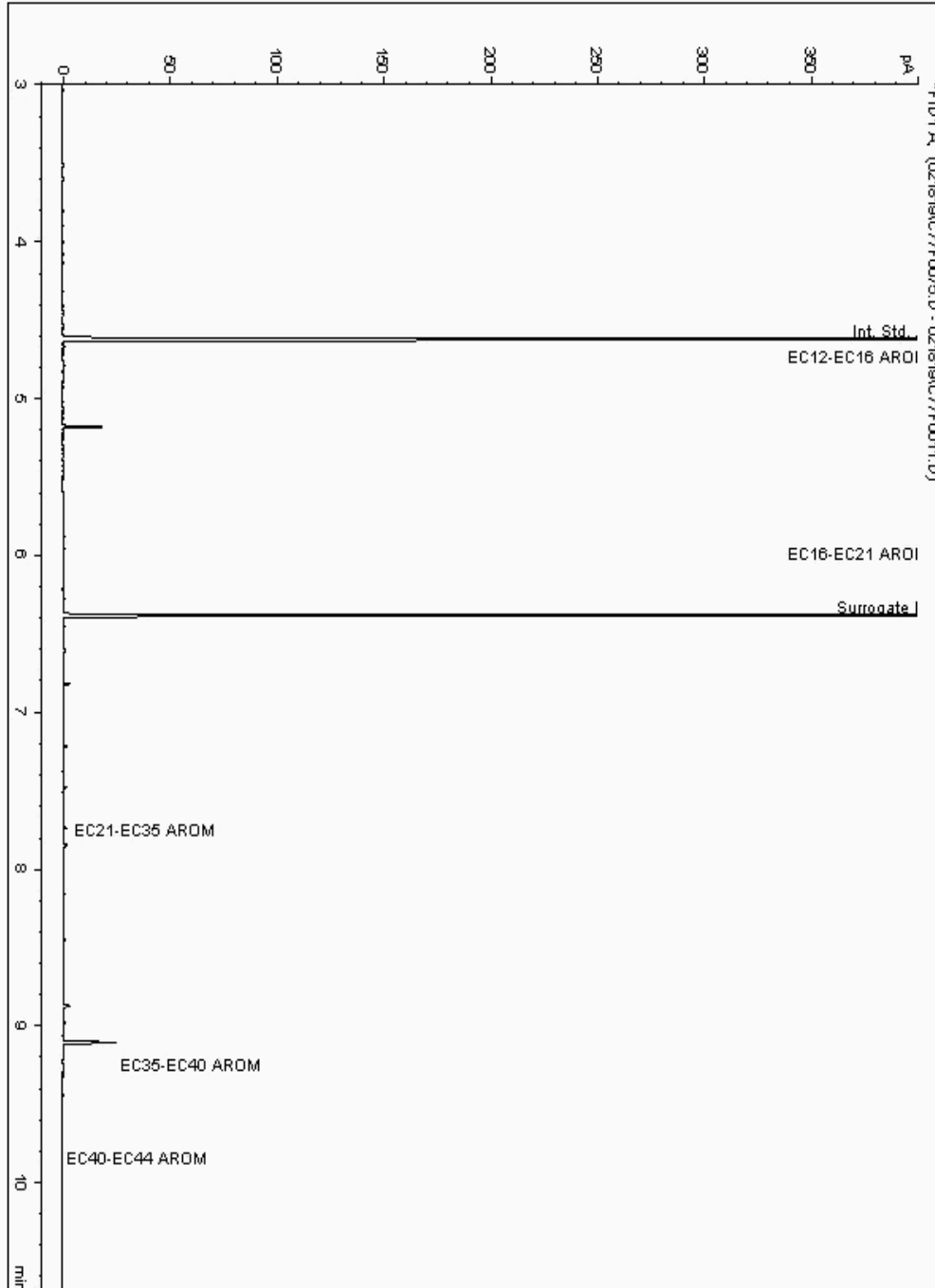
Analysis: EPH CWG (Aromatic) GC (S)
19346919

Sample No :
Sample ID : BH208

19,346,919 Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111224-
Date Acquired : 2/20/2019 10:55:31 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

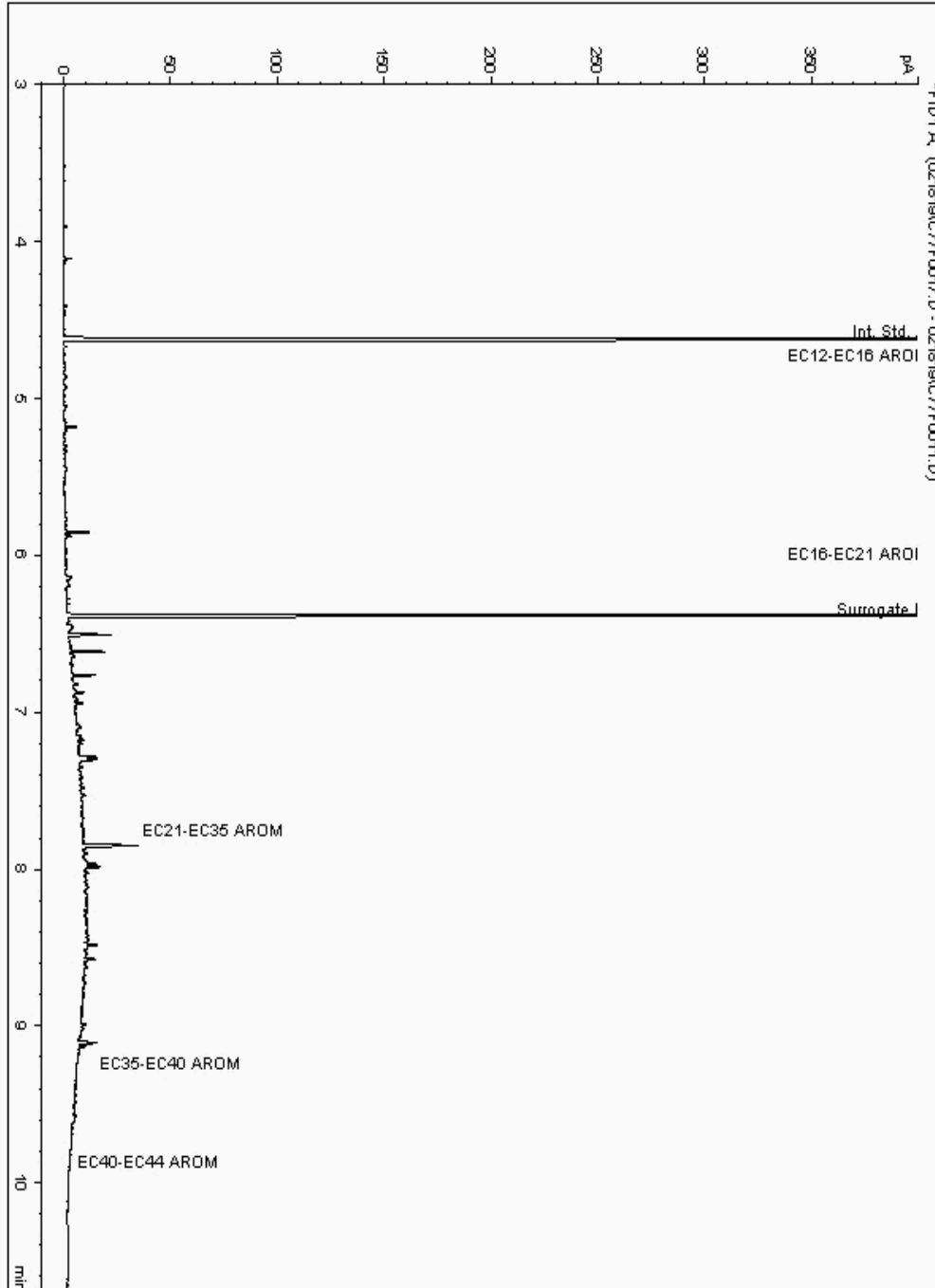
Analysis: EPH CWG (Aromatic) GC (S)
19346951

Sample No :
Sample ID : BH220

19,346,951 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111575-
Date Acquired : 2/18/2019 6:36:17 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

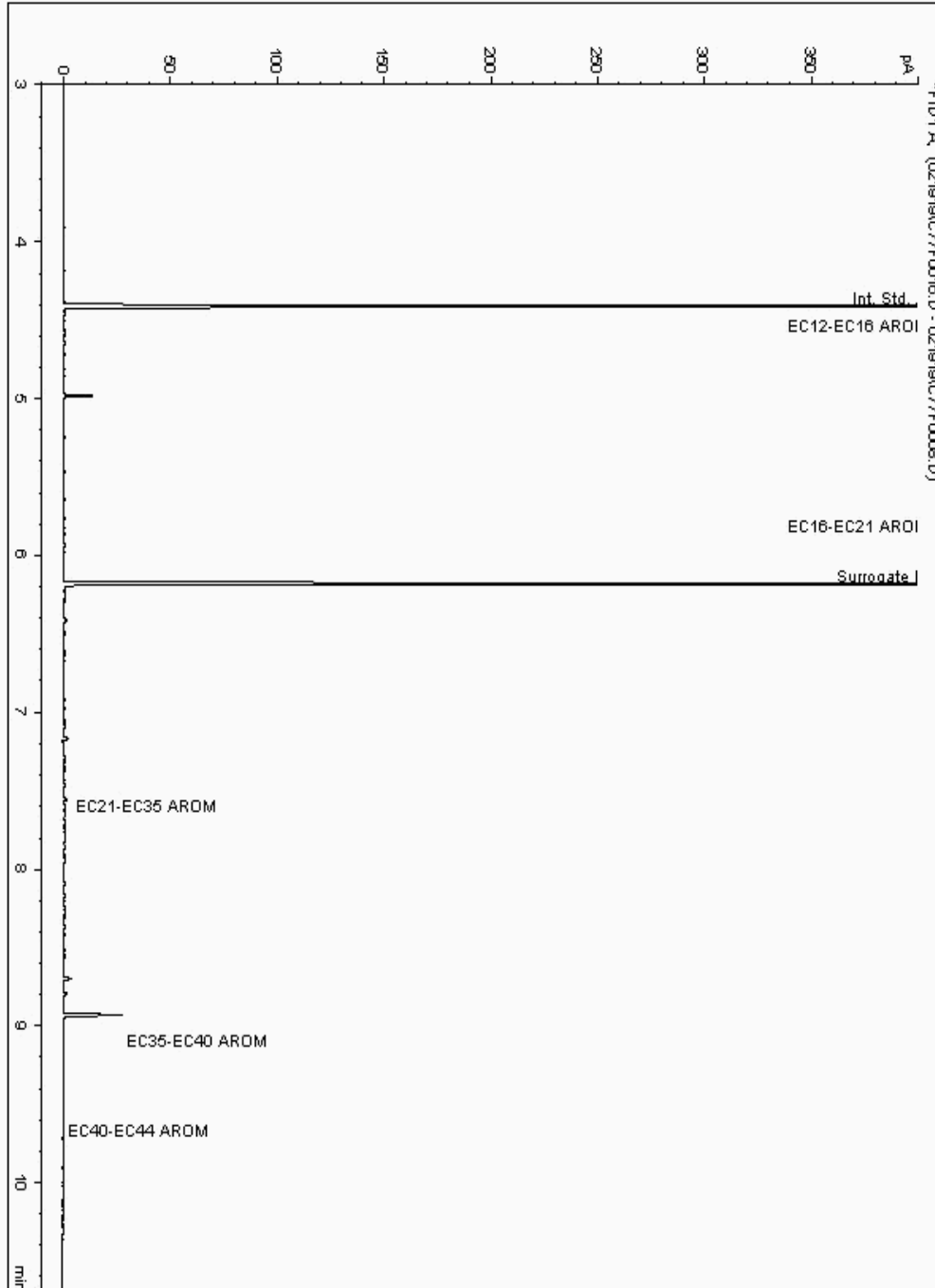
Analysis: EPH CWG (Aromatic) GC (S)
19346957

Sample No :
Sample ID : BH207

19,346,957Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110528-
Date Acquired : 19/02/2019 14:45:06 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

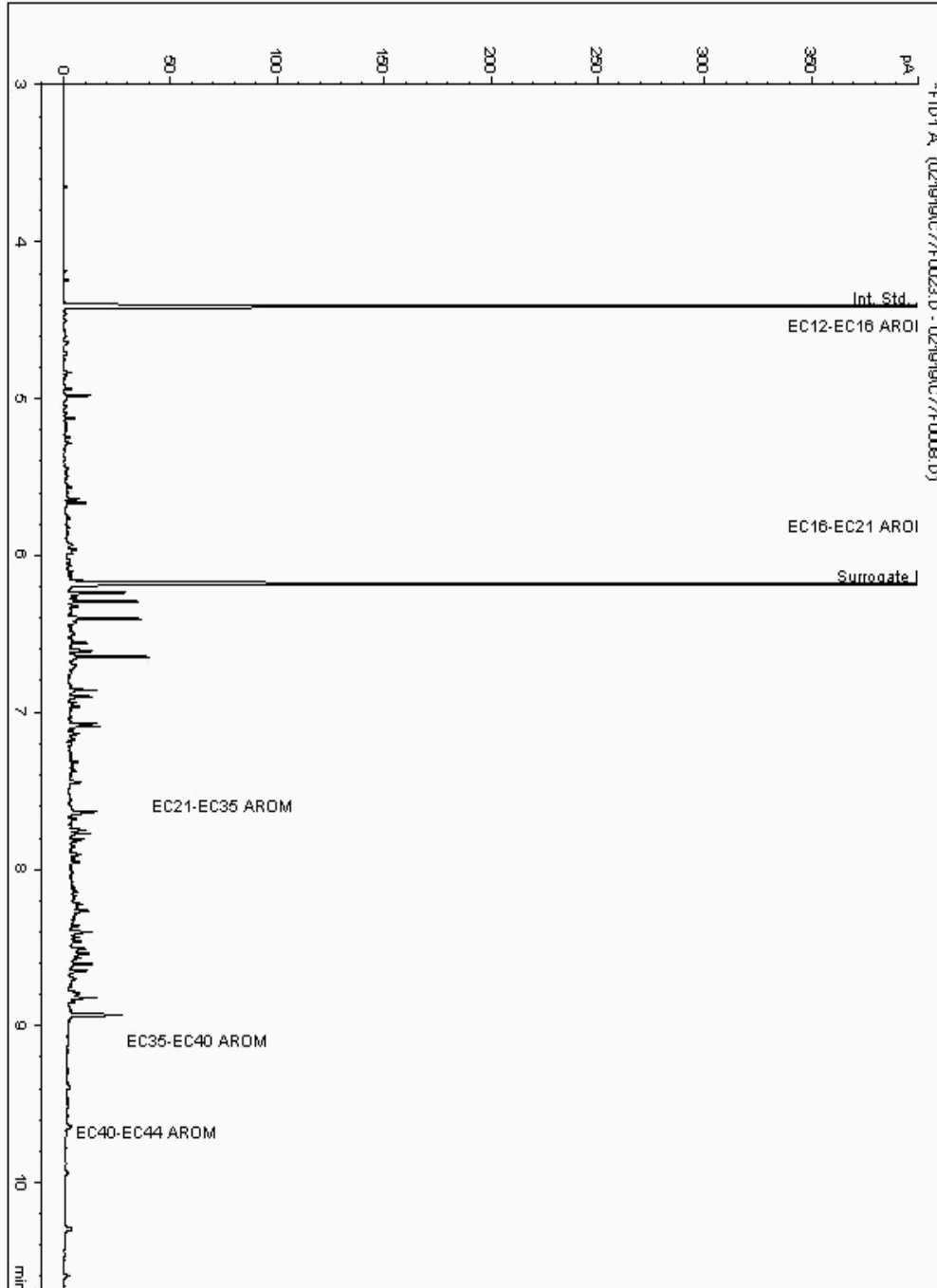
Analysis: EPH CWG (Aromatic) GC (S)
19347051

Sample No :
Sample ID : BH207

19,347,051 Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112812-
Date Acquired : 19/02/2019 17:06:44 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

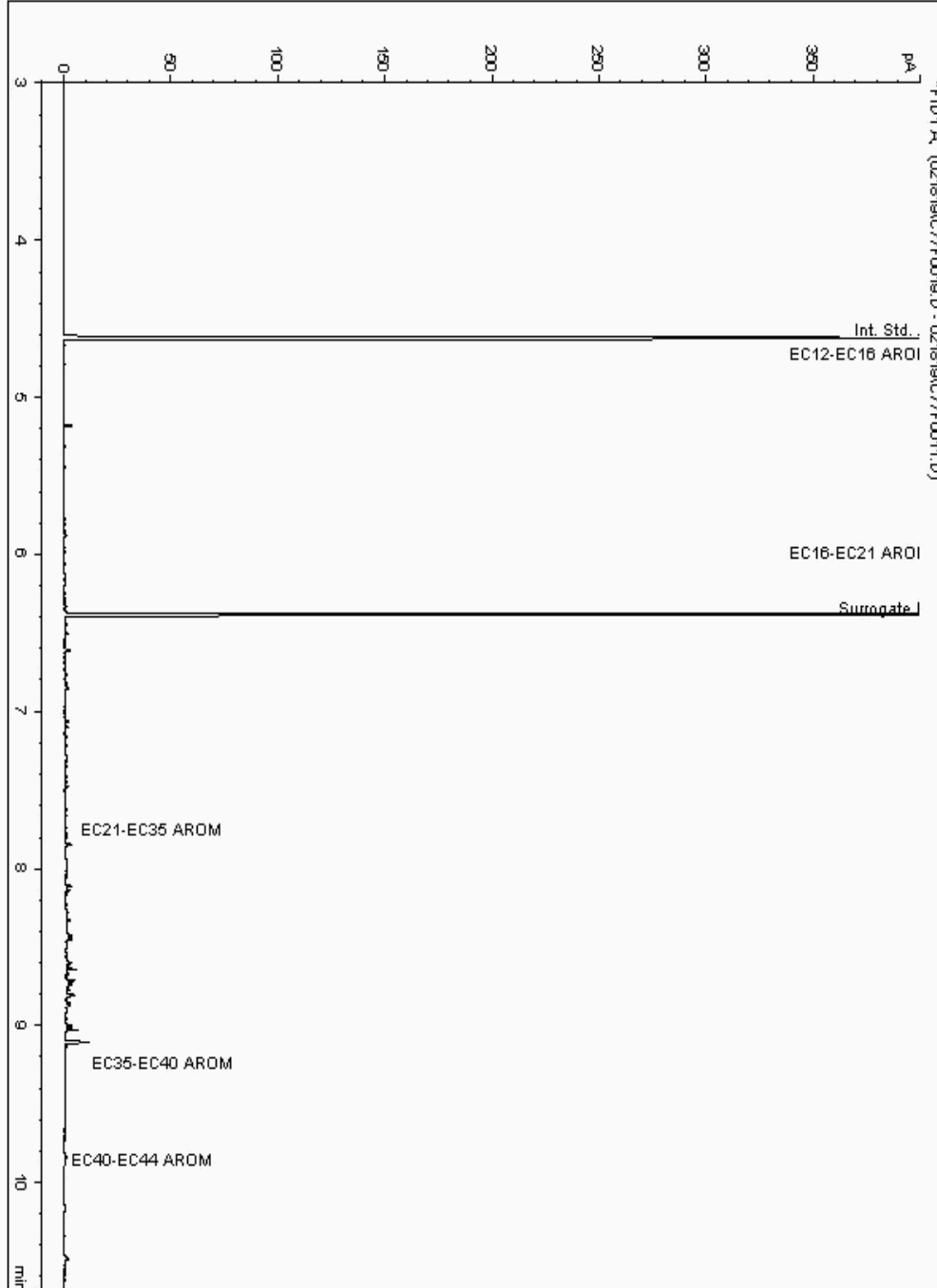
Analysis: EPH CWG (Aromatic) GC (S)
19347138

Sample No :
Sample ID : BH221

19,347,138Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111298-
Date Acquired : 2/18/2019 7:16:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

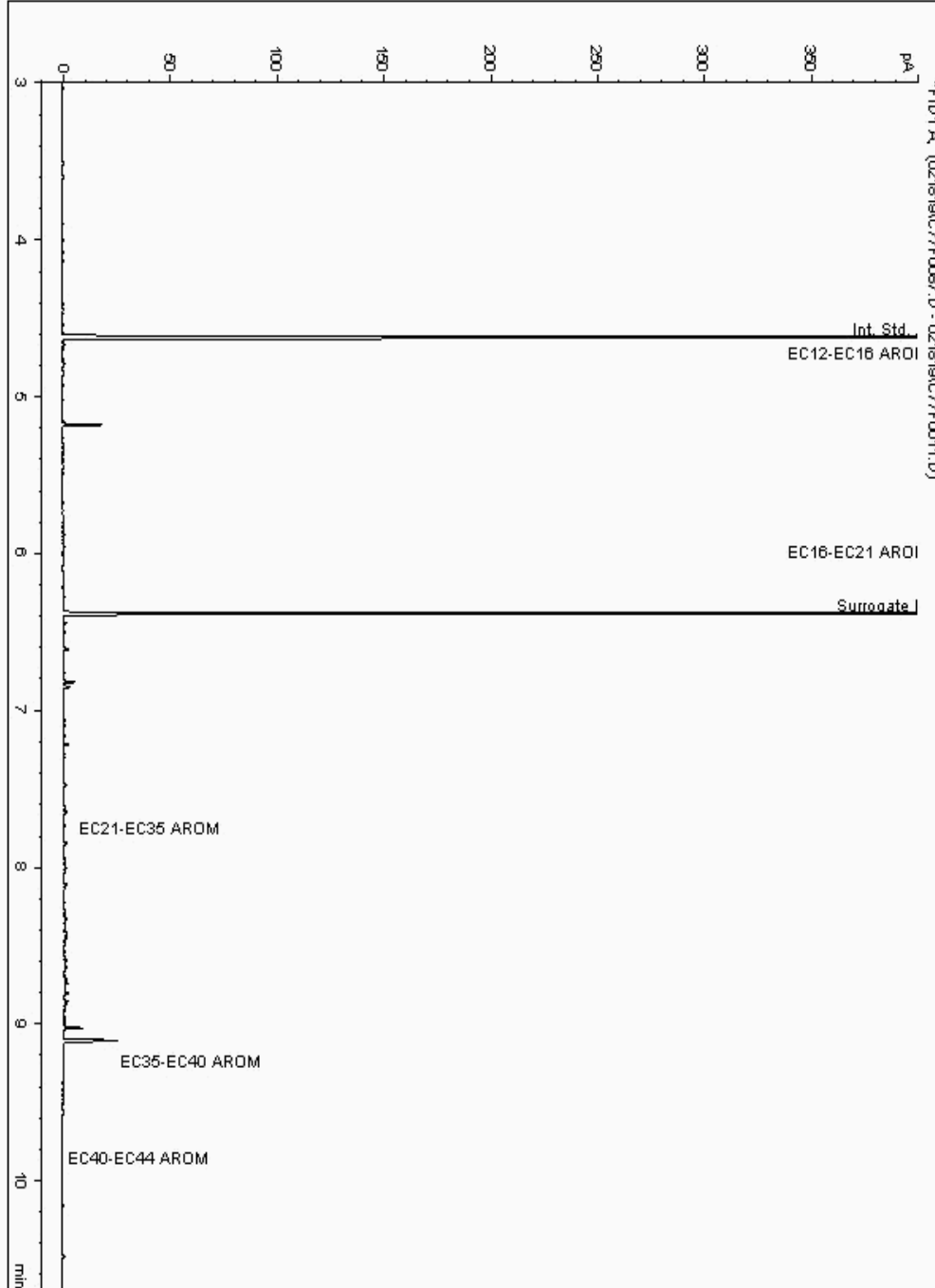
Analysis: EPH CWG (Aromatic) GC (S)
19347177

Sample No :
Sample ID : BH207

19,347,177Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110283-
Date Acquired : 2/20/2019 2:40:26 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

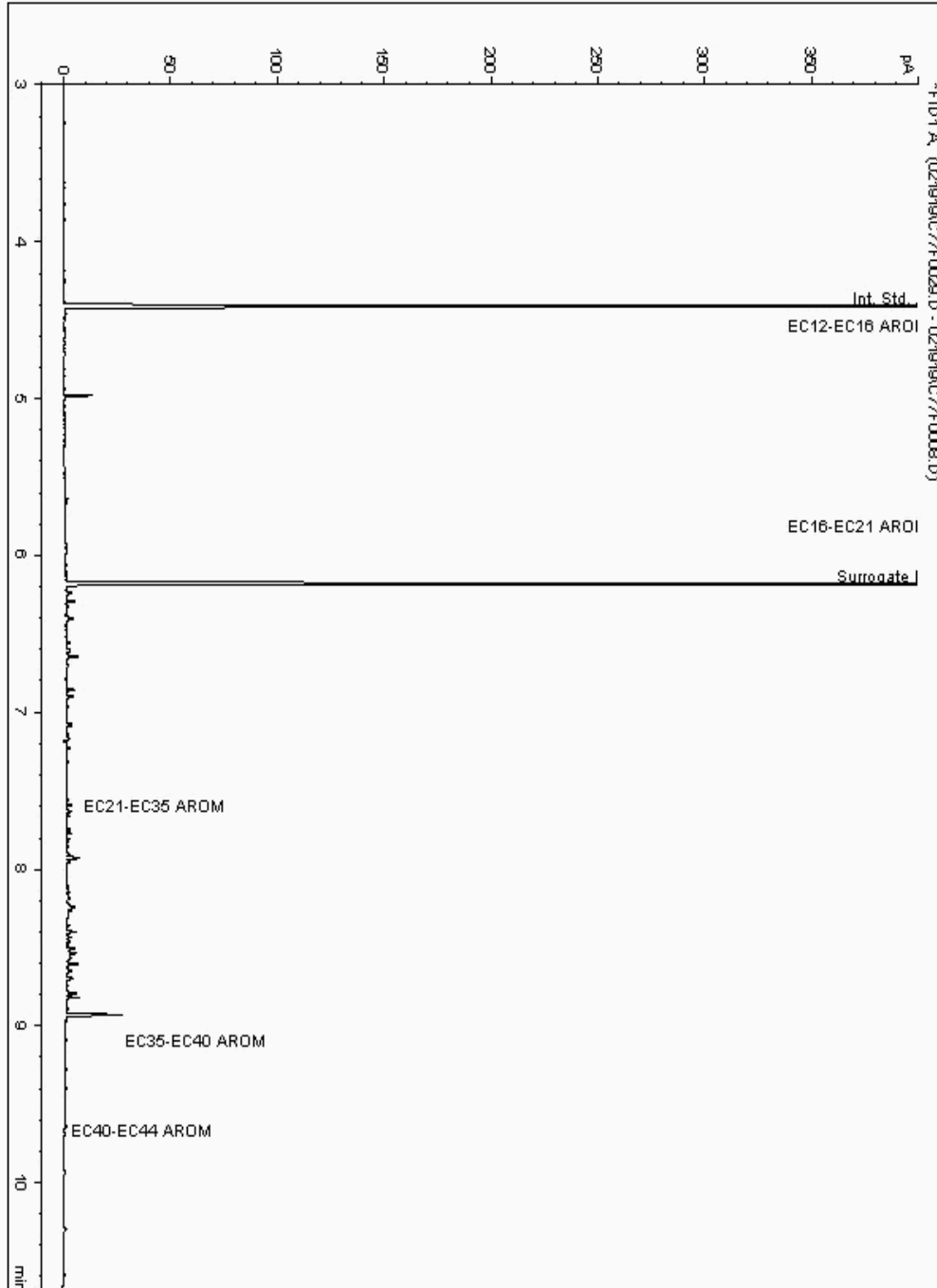
Analysis: EPH CWG (Aromatic) GC (S)
19347236

Sample No :
Sample ID : BH208

19,347,236Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110876-
Date Acquired : 19/02/2019 18:59:24 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

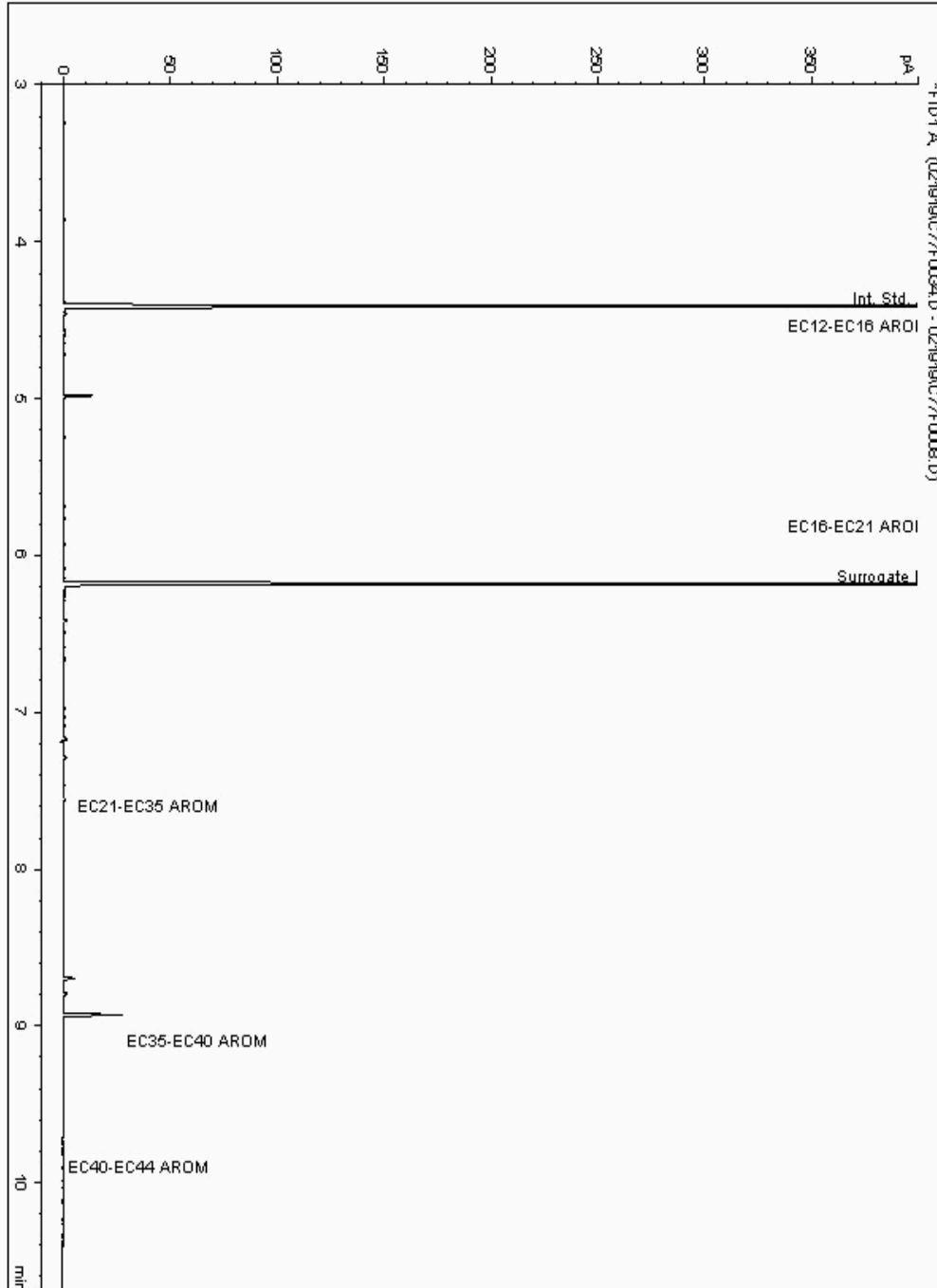
Analysis: EPH CWG (Aromatic) GC (S)
19347300

Sample No :
Sample ID : BH207

19,347,300Depth :9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110314-
Date Acquired : 19/02/2019 20:40:17 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

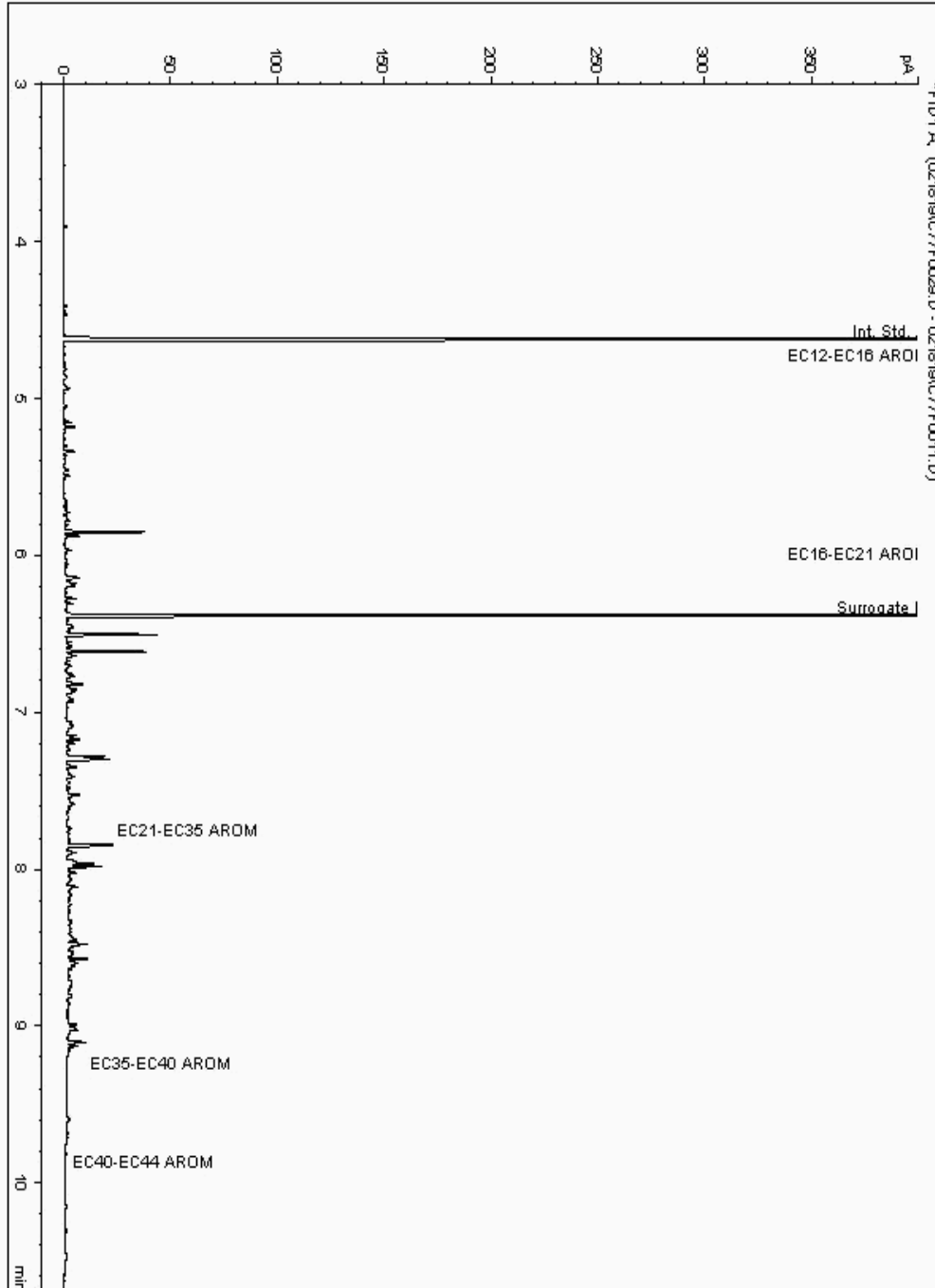
Analysis: EPH CWG (Aromatic) GC (S)
19347411

Sample No :
Sample ID : BH208

19,347,411 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110710-
Date Acquired : 2/18/2019 10:03:20 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

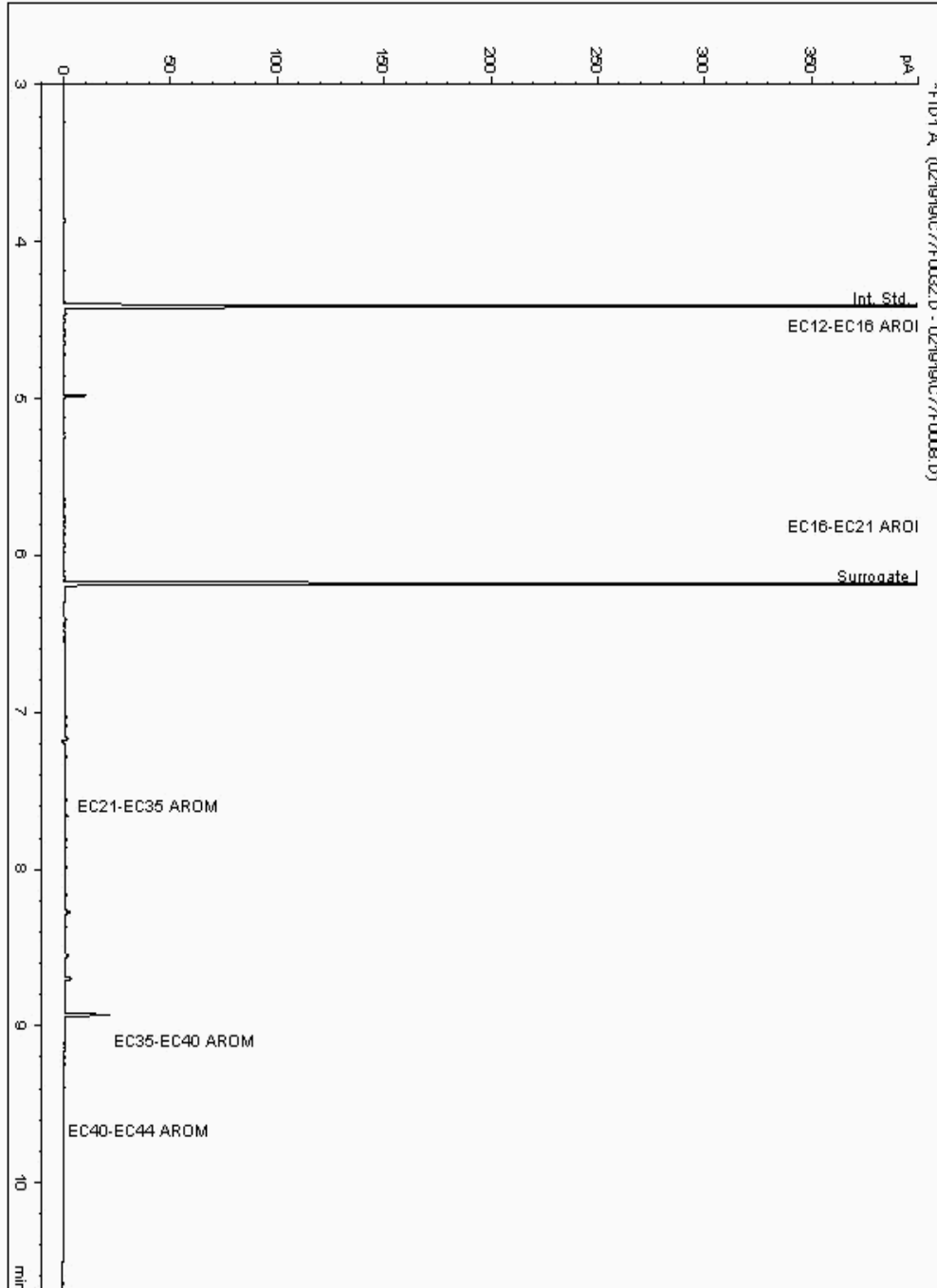
Analysis: EPH CWG (Aromatic) GC (S)
19347428

Sample No :
Sample ID : BH207

19,347,428 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110463-
Date Acquired : 19/02/2019 19:59:58 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

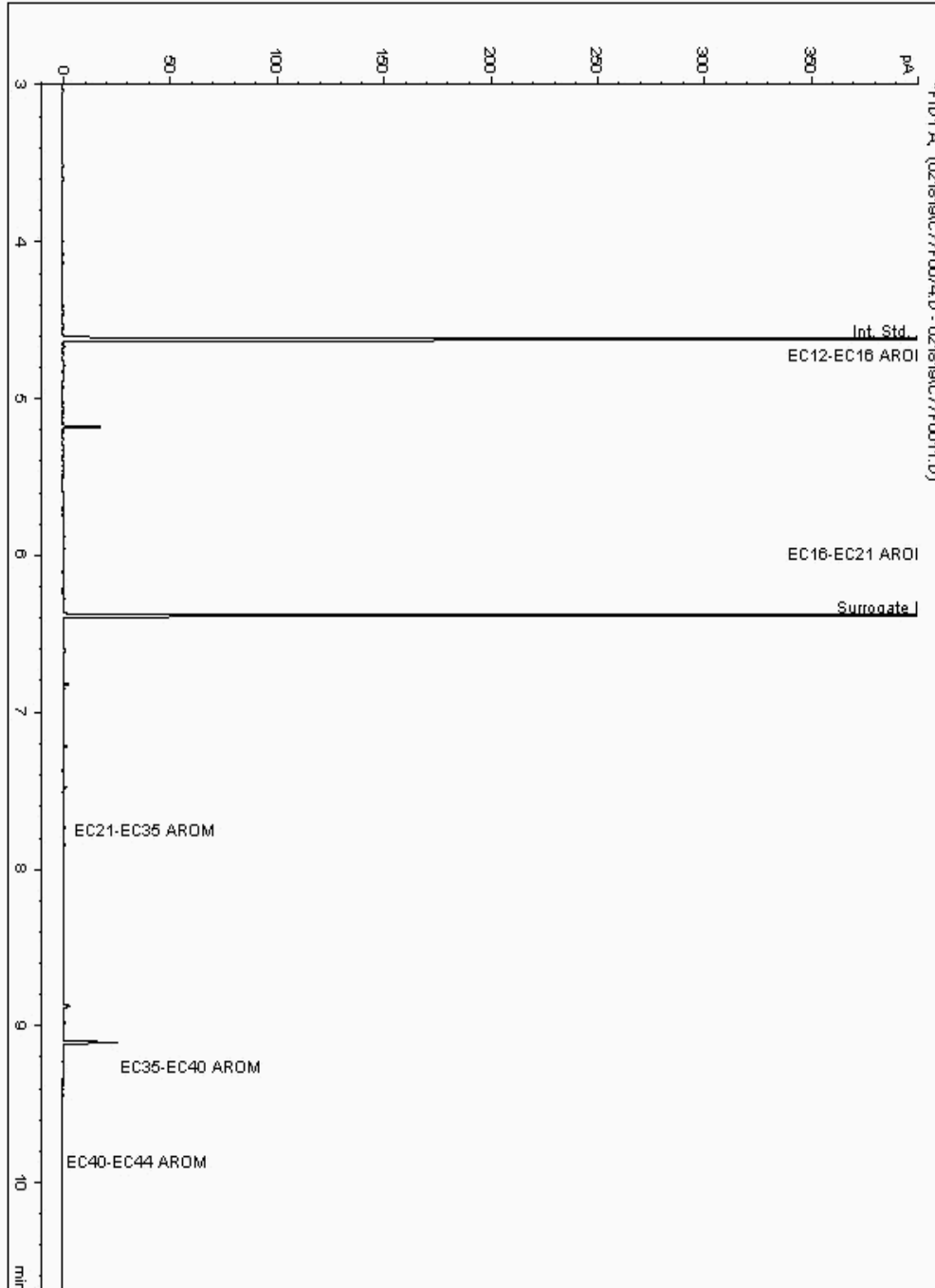
Analysis: EPH CWG (Aromatic) GC (S)
19347476

Sample No :
Sample ID : BH207

19,347,476 Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110570-
Date Acquired : 2/20/2019 10:35:19 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

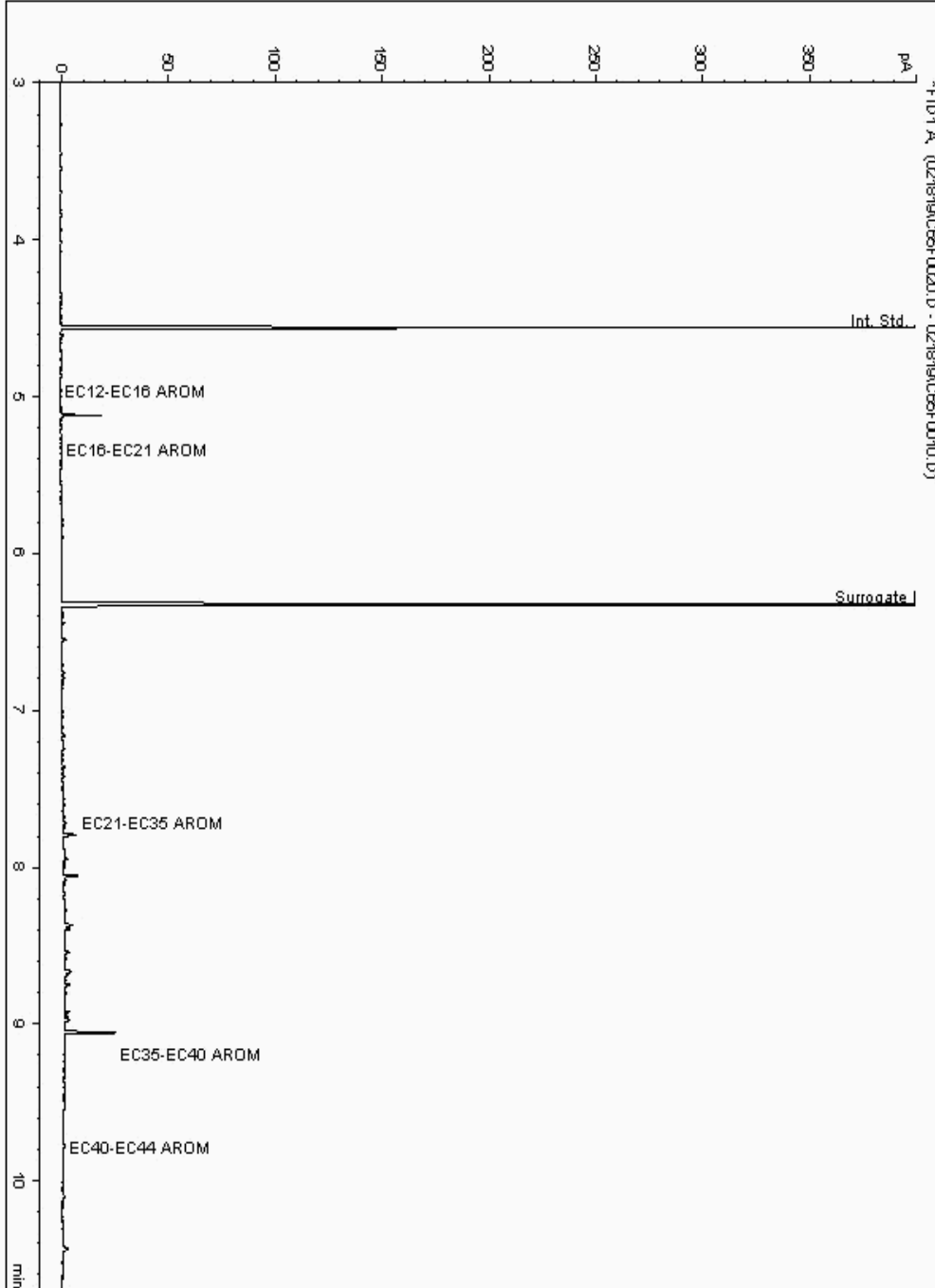
Analysis: EPH CWG (Aromatic) GC (S)
19347525

Sample No :
Sample ID : BH206

19,347,525Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109481-
Date Acquired : 18/02/2019 16:37:50 PM
Units : ppb
Dilution: BH206[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

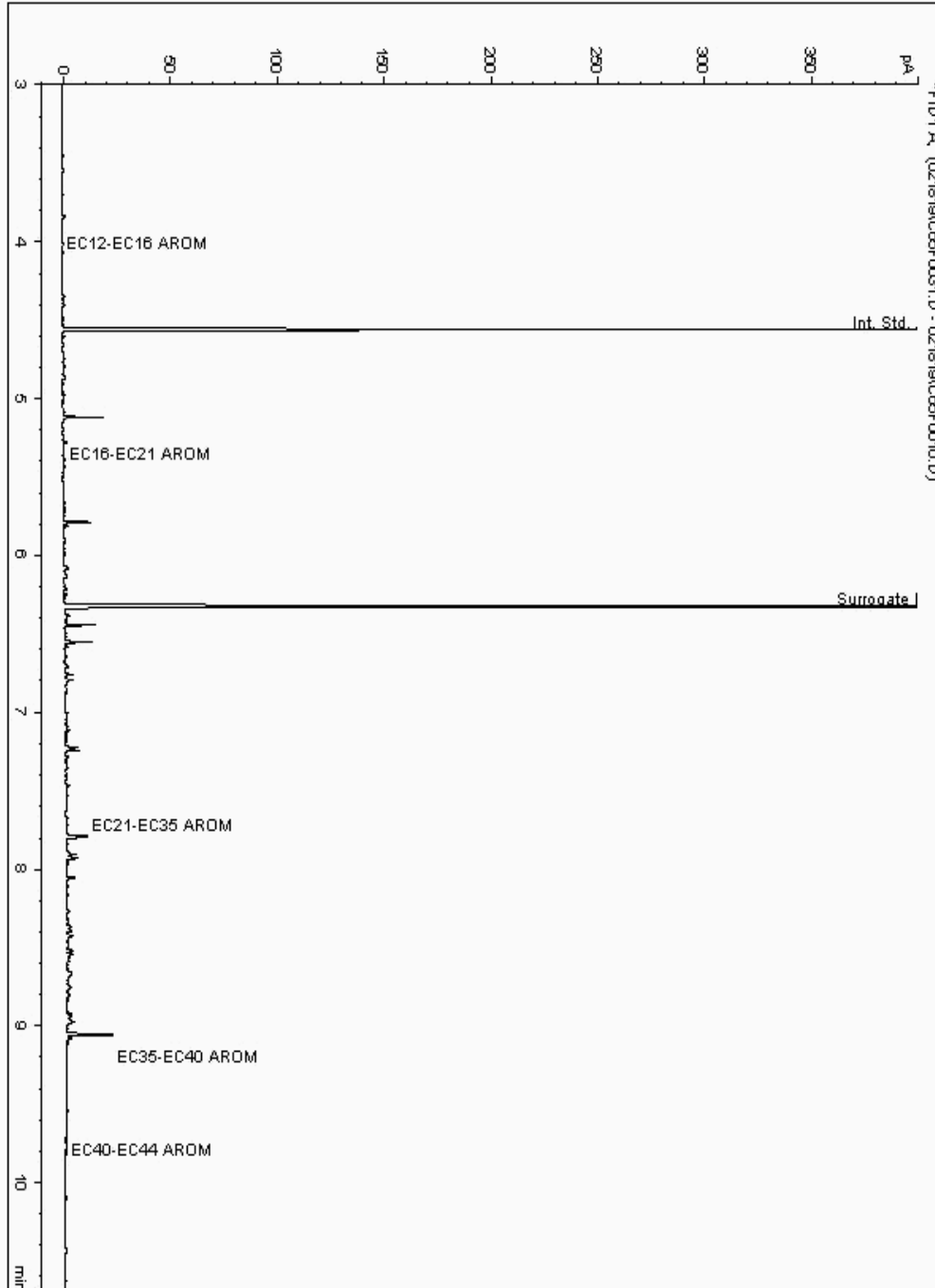
Analysis: EPH CWG (Aromatic) GC (S)
19347604

Sample No :
Sample ID : BH207

19,347,604Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110050-
Date Acquired : 18/02/2019 19:50:38 PM
Units : ppb
Dilution: BH207[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

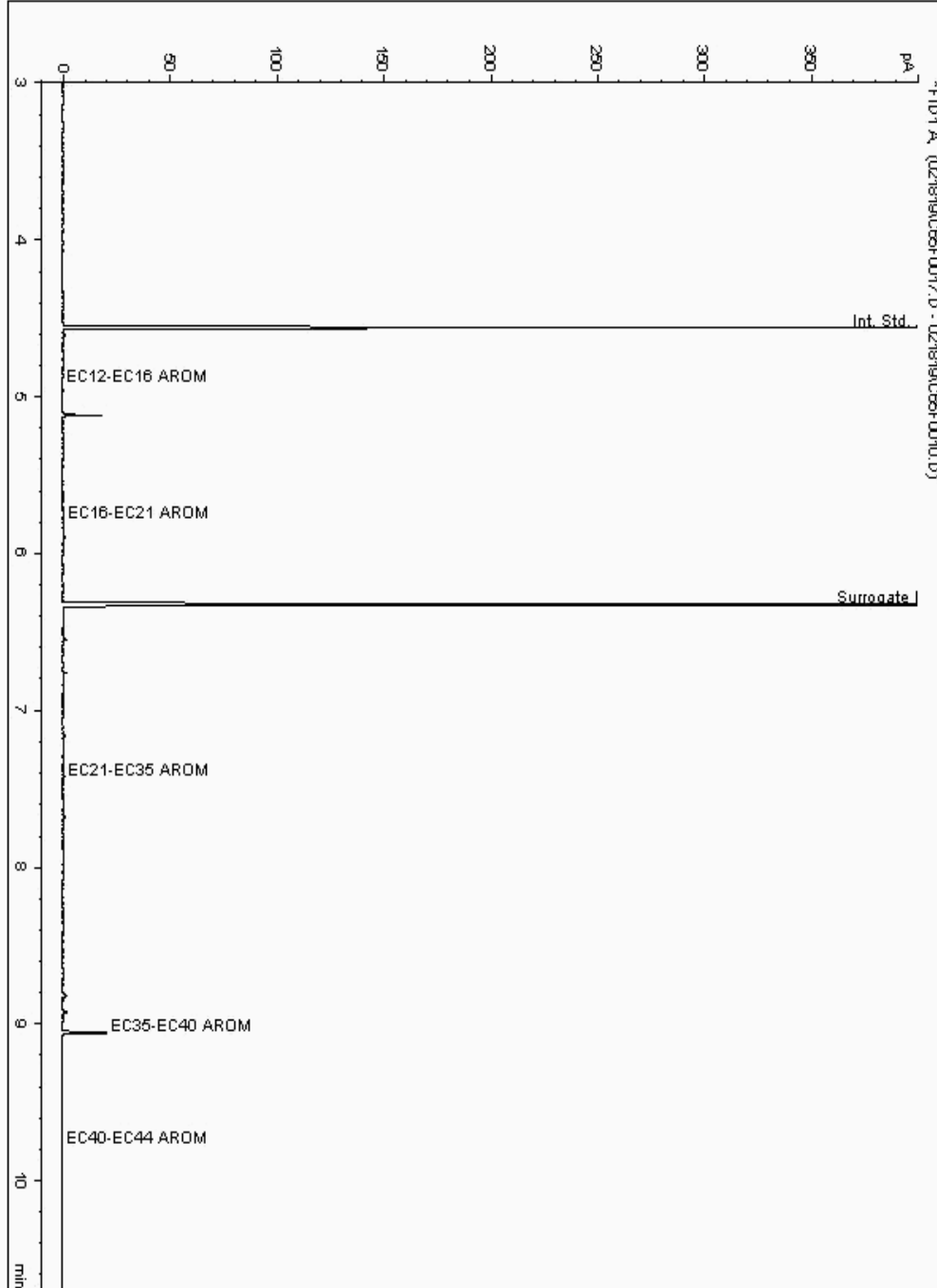
Analysis: EPH CWG (Aromatic) GC (S)
19347605

Sample No :
Sample ID : BH206

19,347,605Depth :9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109666-
Date Acquired : 18/02/2019 15:36:14 PM
Units : ppb
Dilution: BH206[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

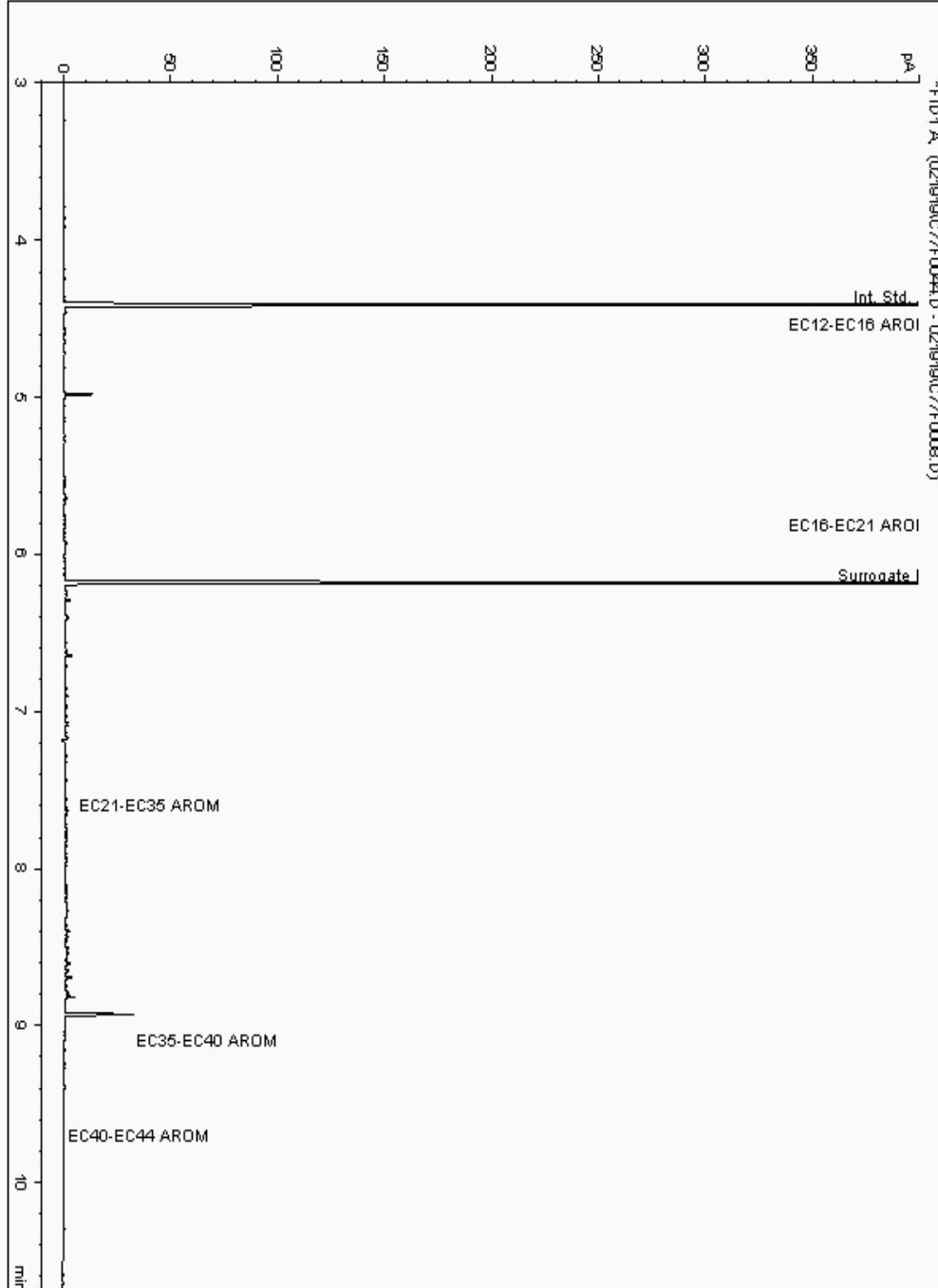
Analysis: EPH CWG (Aromatic) GC (S)
19347754

Sample No :
Sample ID : BH207

19,347,754 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110117-
Date Acquired : 19/02/2019 23:38:57 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

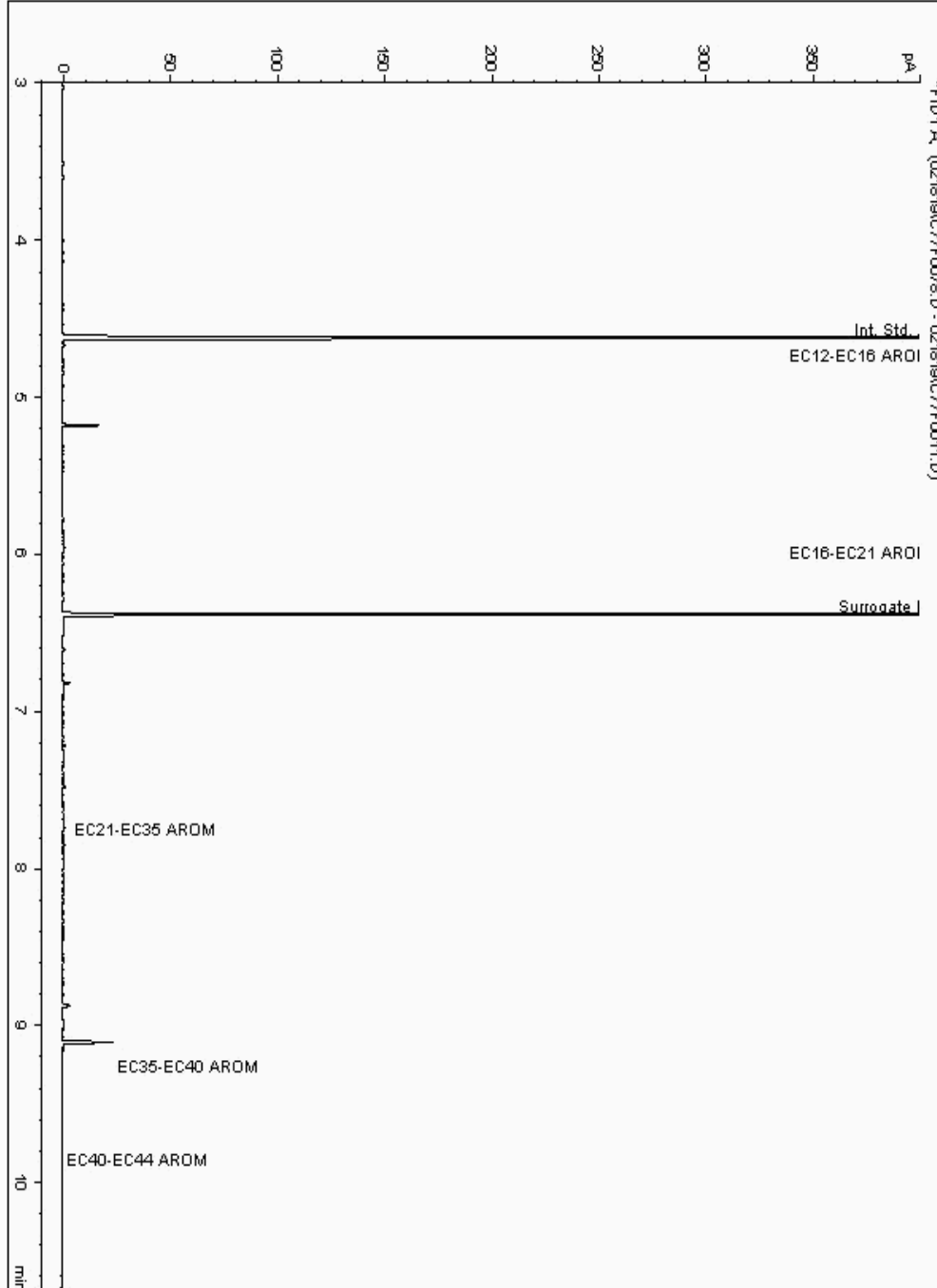
Analysis: EPH CWG (Aromatic) GC (S)
19348075

Sample No :
Sample ID : BH208

19,348,075 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111007-
Date Acquired : 2/20/2019 11:55:59 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

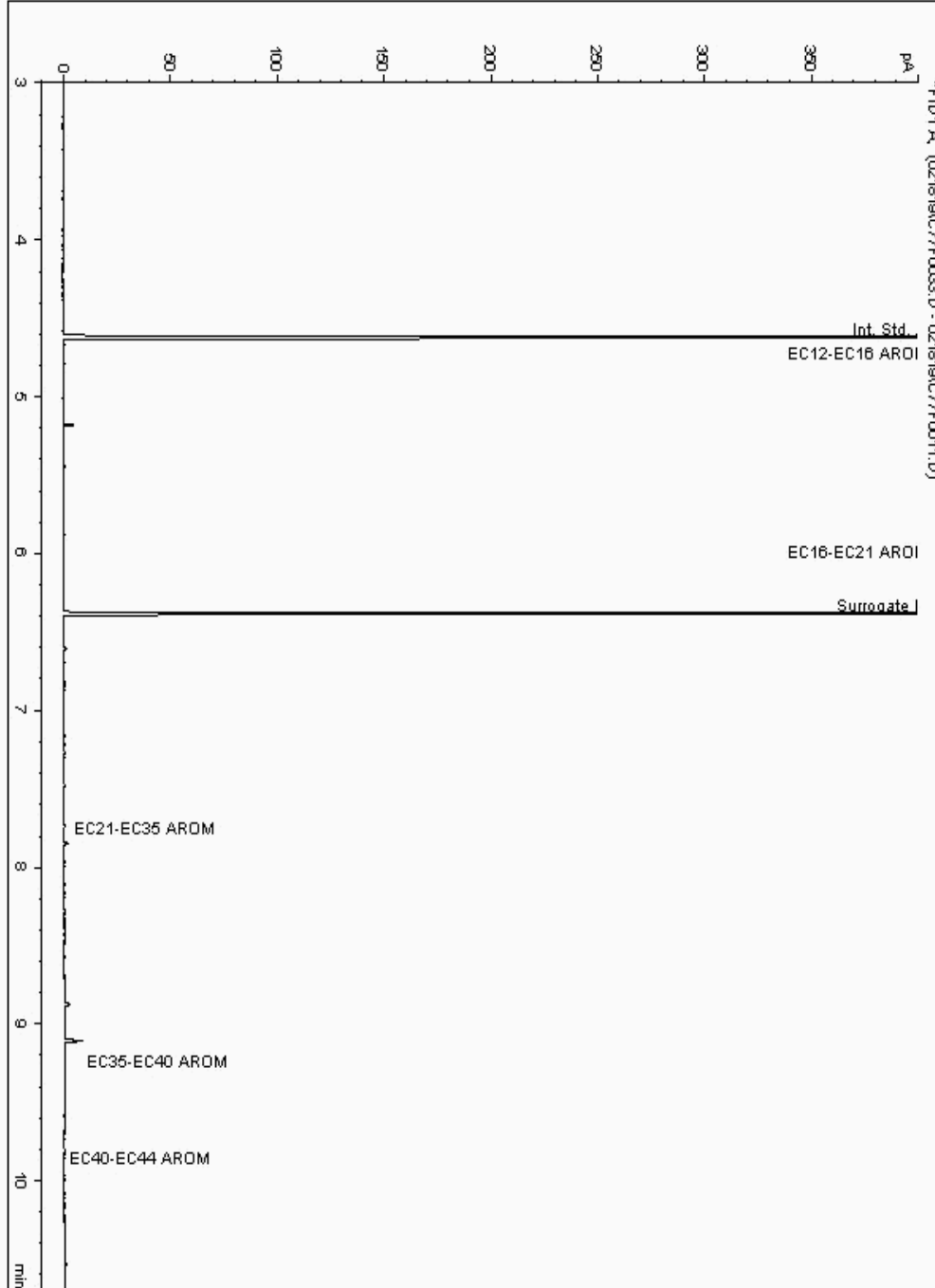
Analysis: EPH CWG (Aromatic) GC (S)
19349764

Sample No :
Sample ID : BH220

19,349,764 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111804-
Date Acquired : 2/18/2019 11:15:43 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

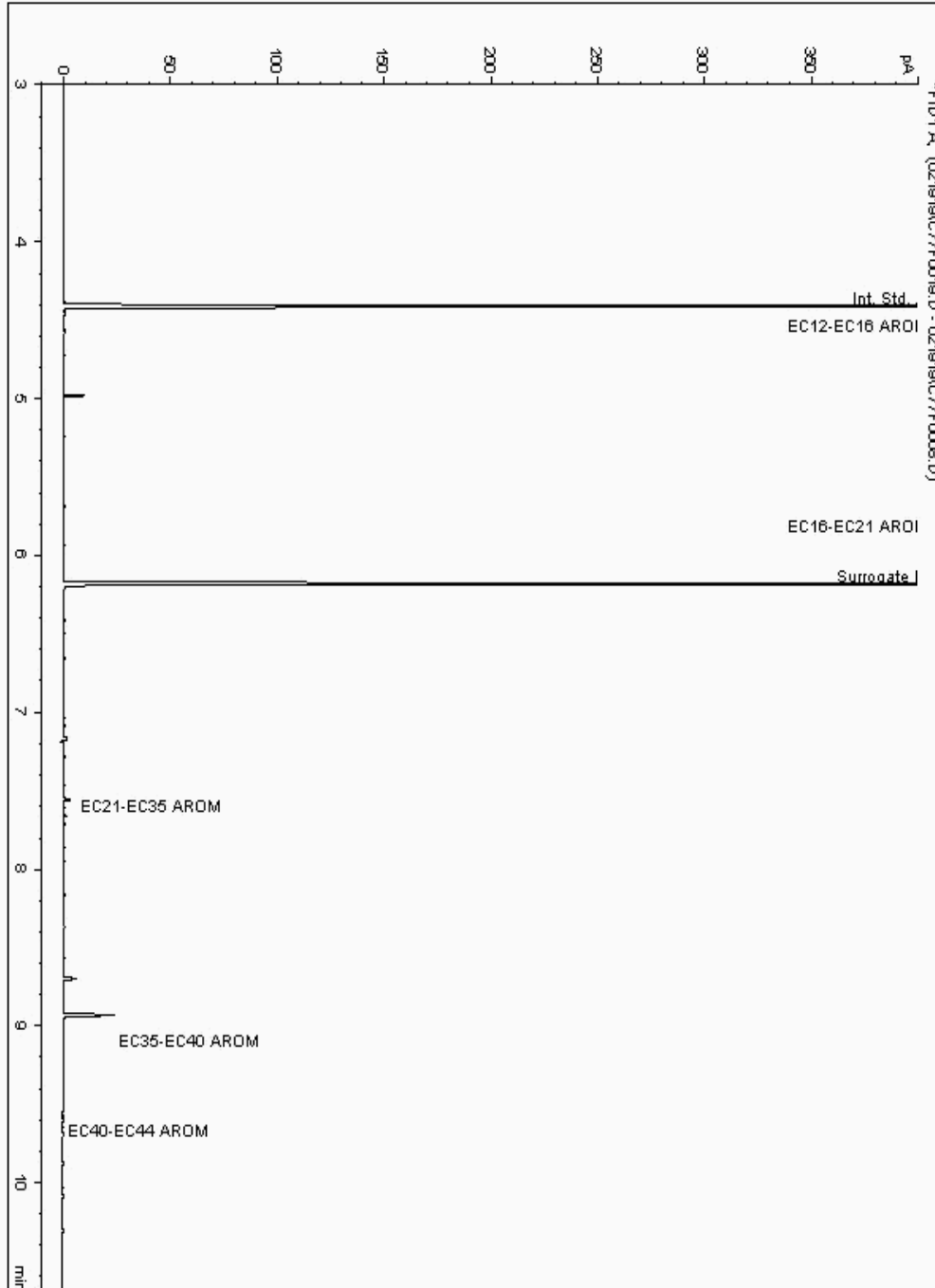
Analysis: EPH CWG (Aromatic) GC (S)
19349862

Sample No :
Sample ID : BH209

19,349,862Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18112041-
Date Acquired : 19/02/2019 15:45:46 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

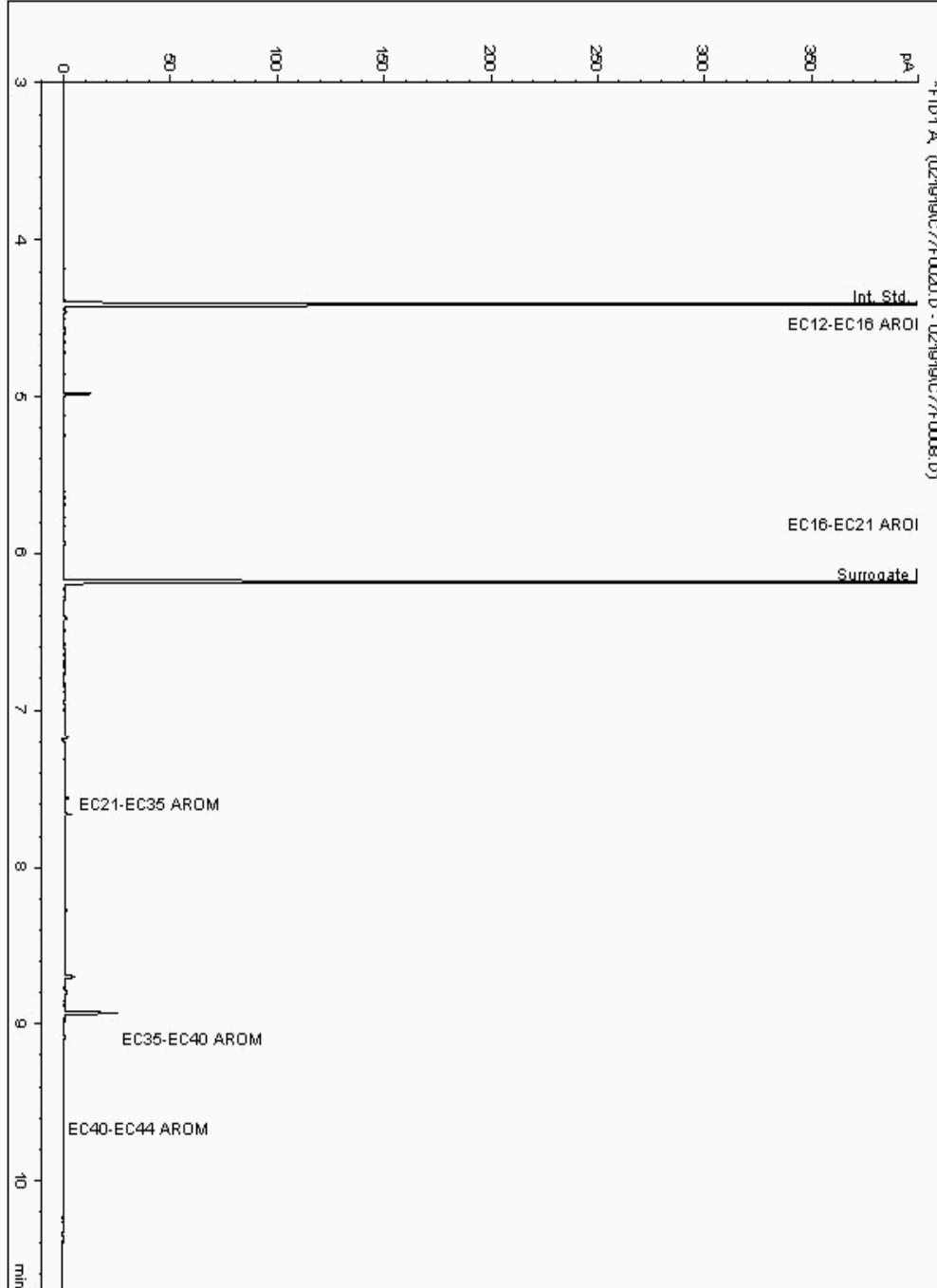
Analysis: EPH CWG (Aromatic) GC (S)
19350021

Sample No :
Sample ID : BH220

19,350,021 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111779-
Date Acquired : 19/02/2019 16:06:08 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

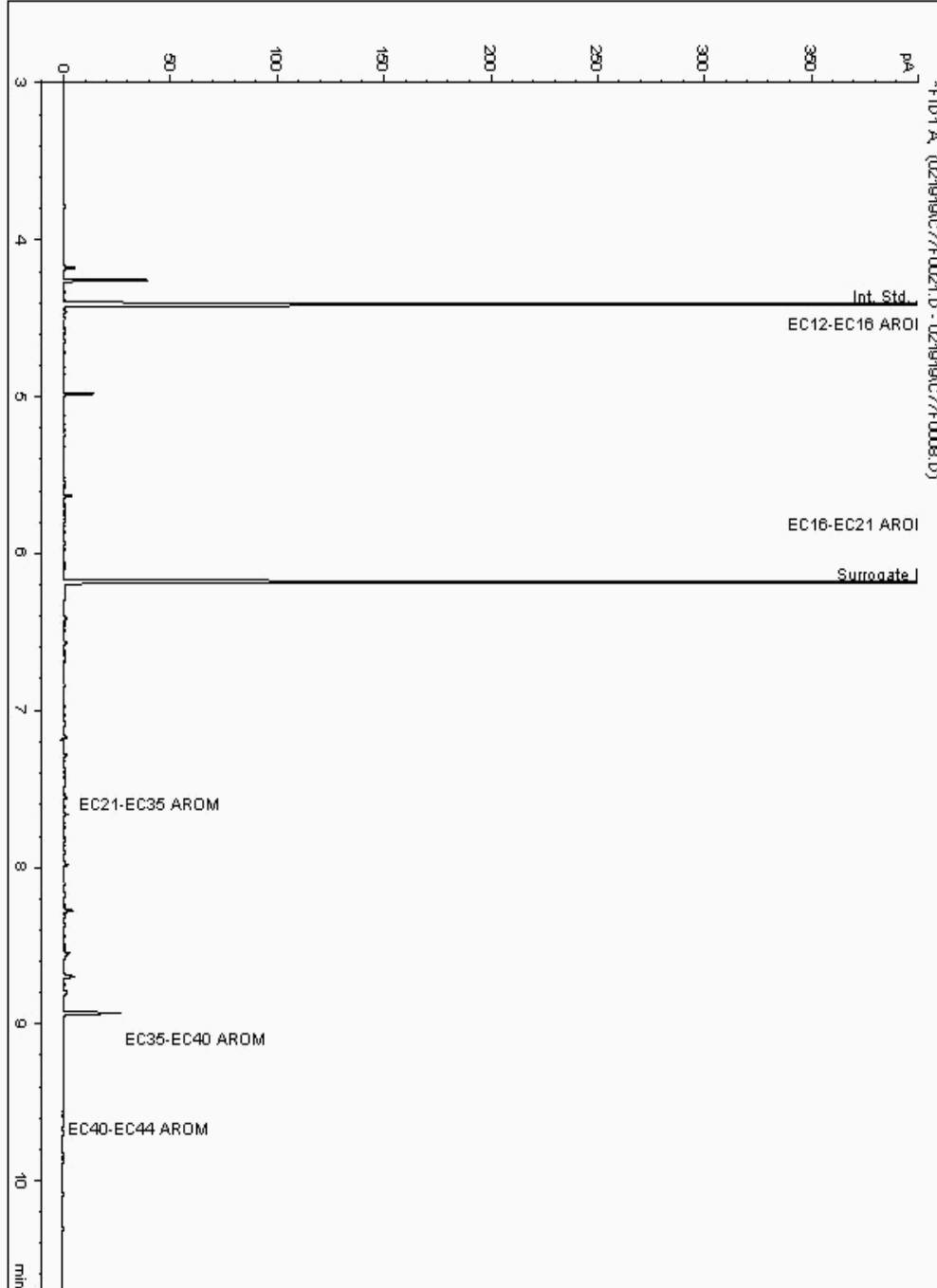
Analysis: EPH CWG (Aromatic) GC (S)
19350127

Sample No :
Sample ID : BH221

19,350,127 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111517-
Date Acquired : 19/02/2019 16:26:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

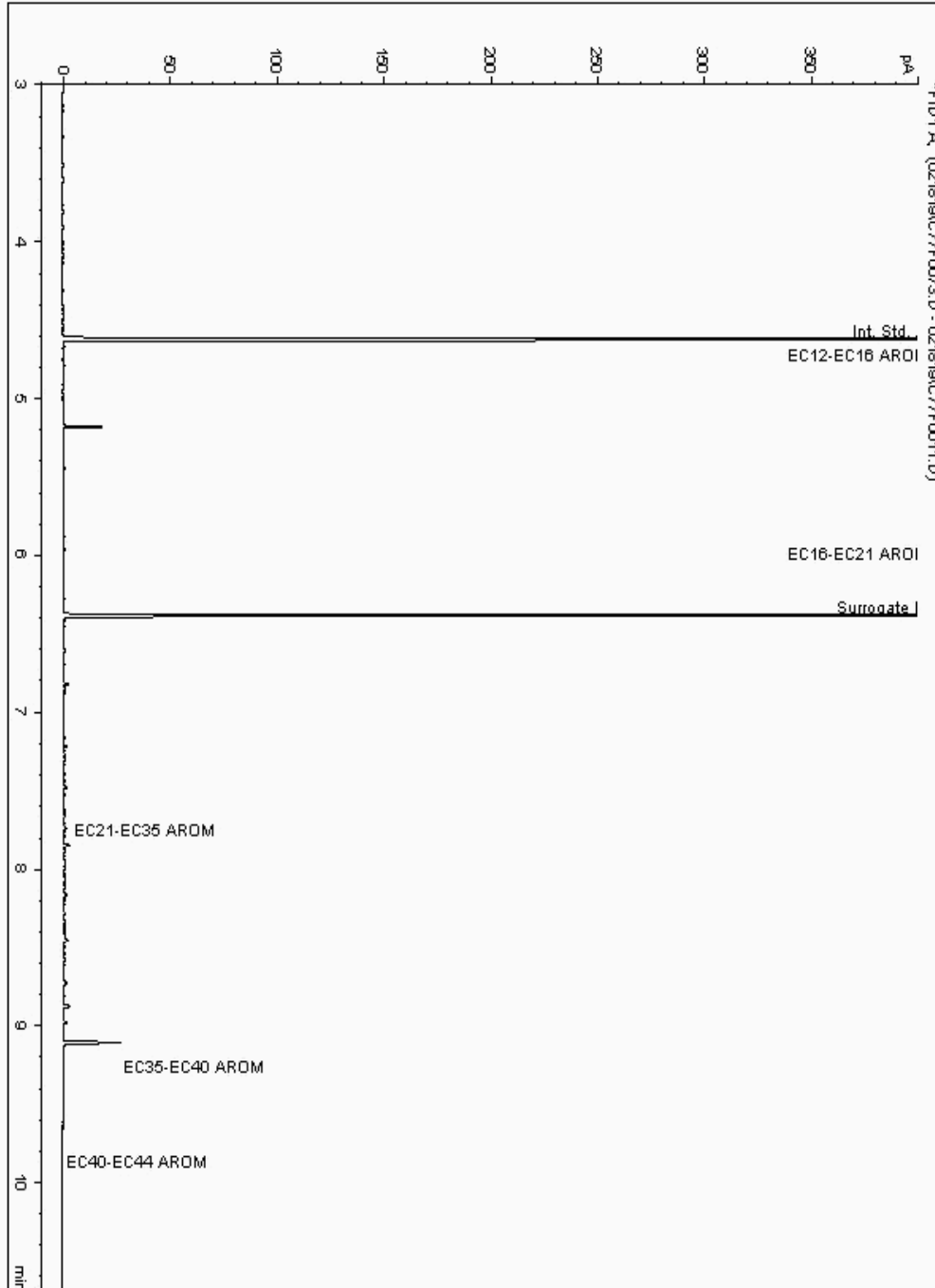
Analysis: EPH CWG (Aromatic) GC (S)
19350275

Sample No :
Sample ID : BH220

19,350,275 Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111829-
Date Acquired : 2/20/2019 10:15:10 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

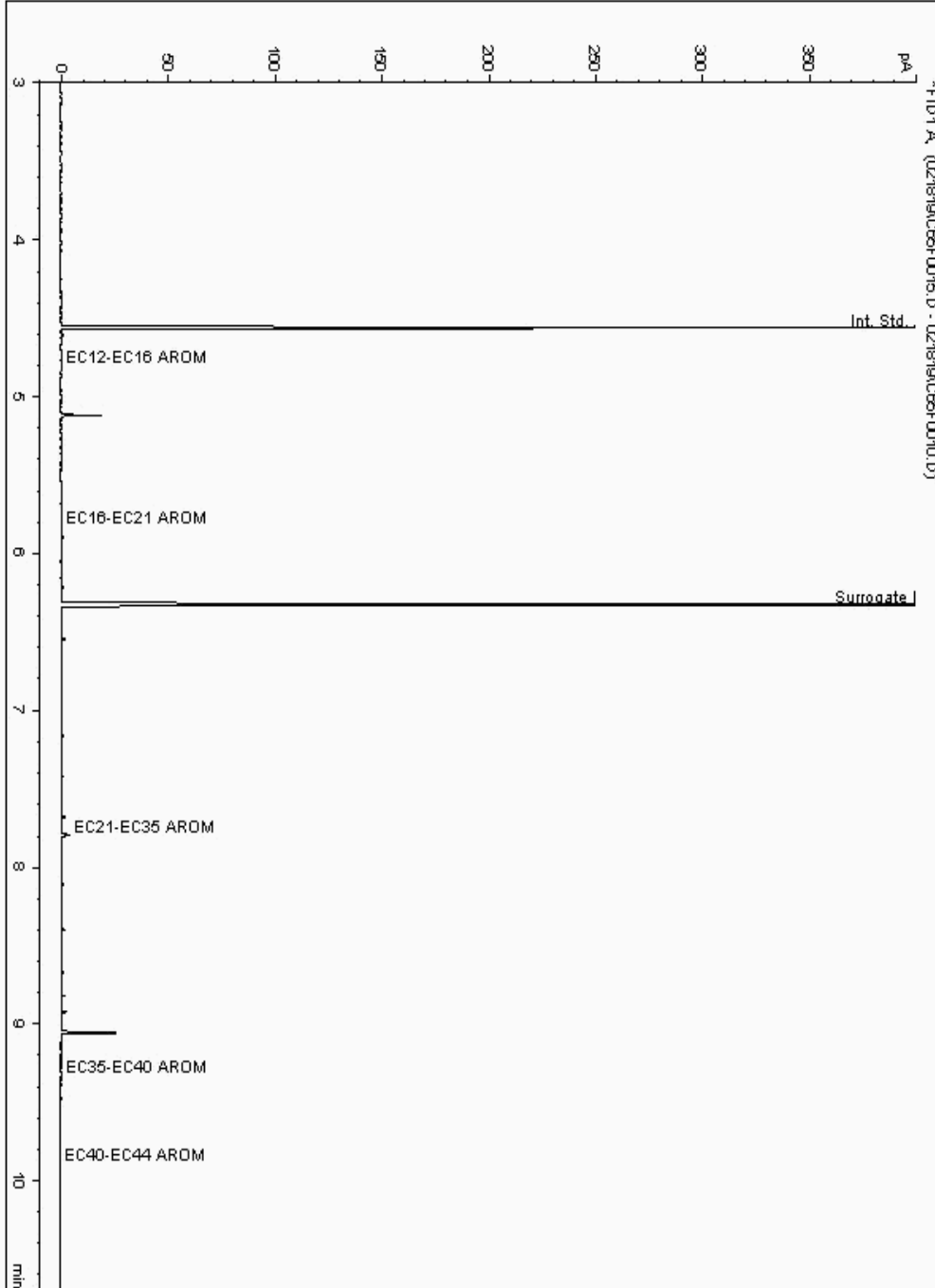
Analysis: EPH CWG (Aromatic) GC (S)
19350421

Sample No :
Sample ID : BH221

19,350,421 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111472-
Date Acquired : 18/02/2019 14:55:01 PM
Units : ppb
Dilution: BH221[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

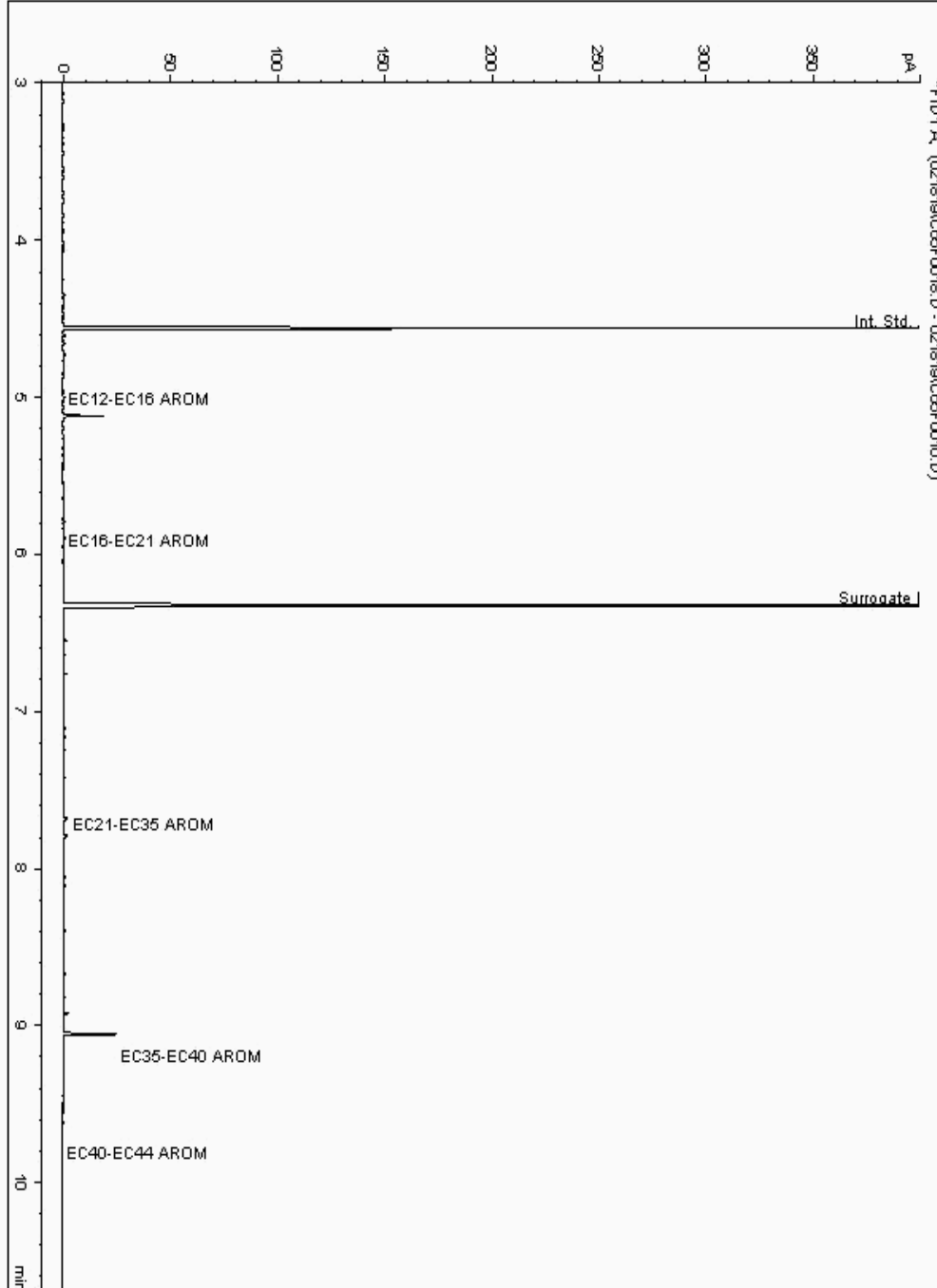
Analysis: EPH CWG (Aromatic) GC (S)
19350694

Sample No :
Sample ID : BH209

19,350,694 Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112134-
Date Acquired : 18/02/2019 15:56:46 PM
Units : ppb
Dilution: BH209[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

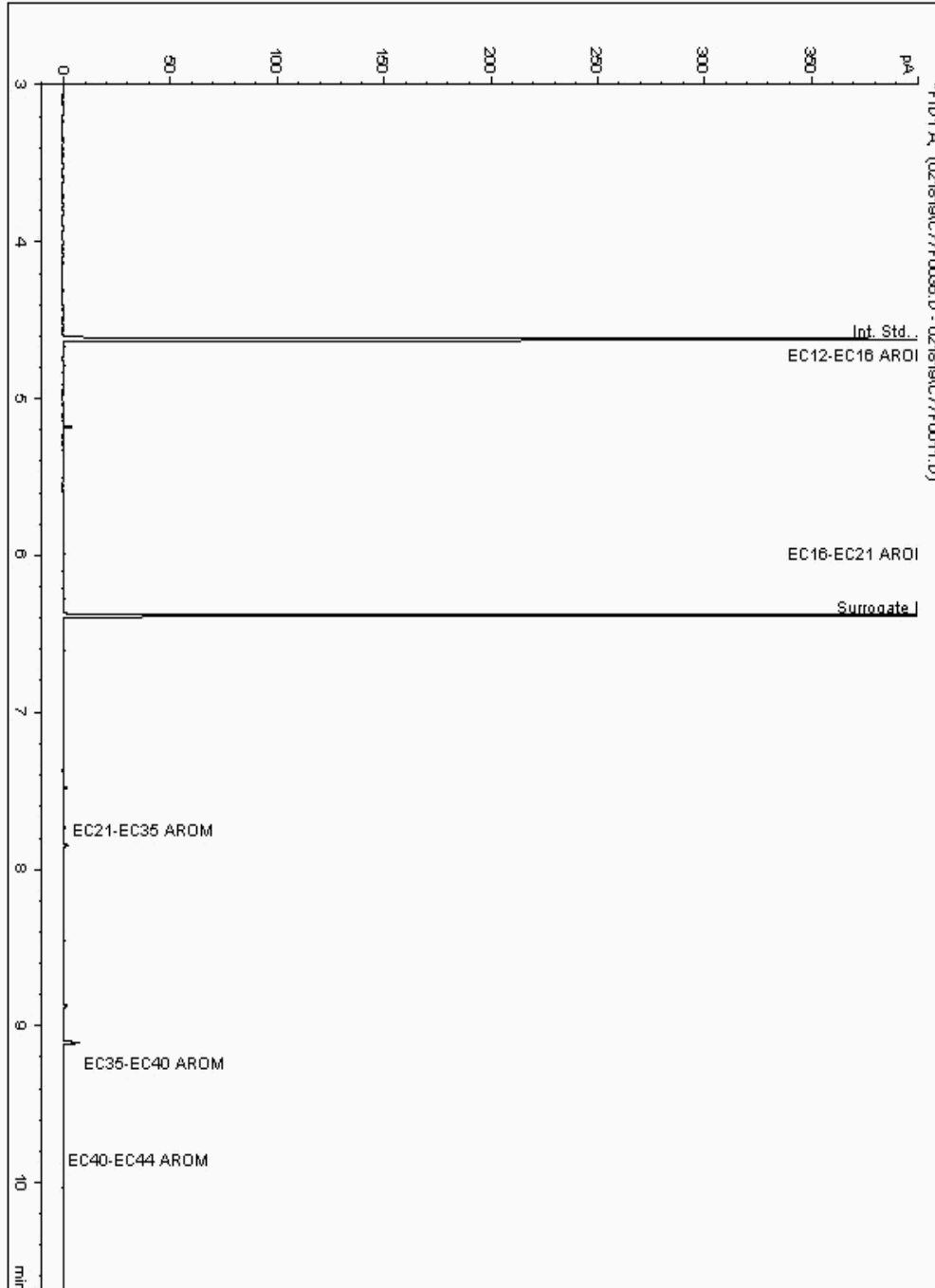
Analysis: EPH CWG (Aromatic) GC (S)
19350913

Sample No :
Sample ID : BH221

19,350,913 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18111435-
Date Acquired : 2/19/2019 12:15:55 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

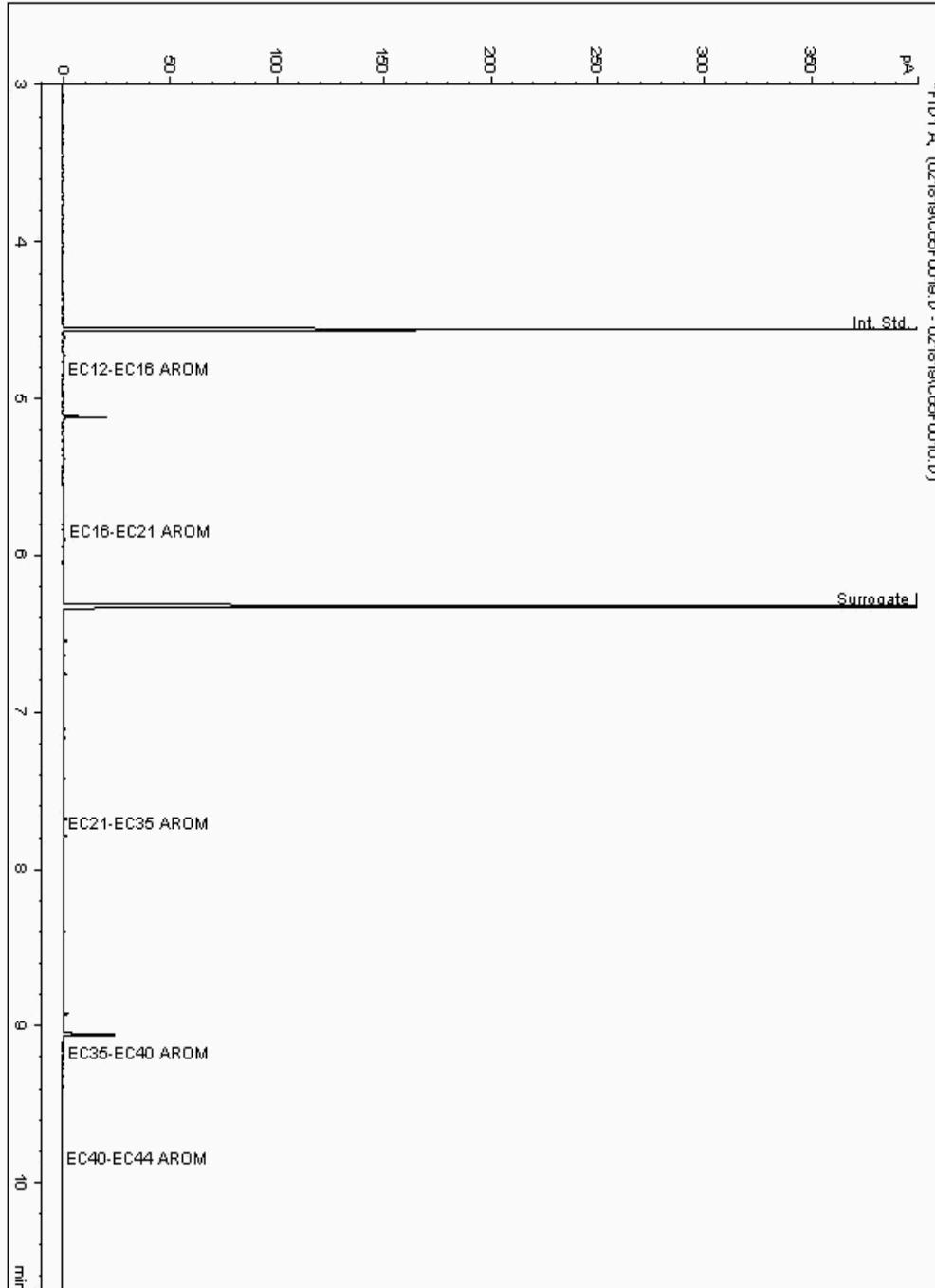
Analysis: EPH CWG (Aromatic) GC (S)
19350980

Sample No :
Sample ID : BH209

19,350,980 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18112099-
Date Acquired : 18/02/2019 16:17:14 PM
Units : ppb
Dilution: BH209[14.00 - 15.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

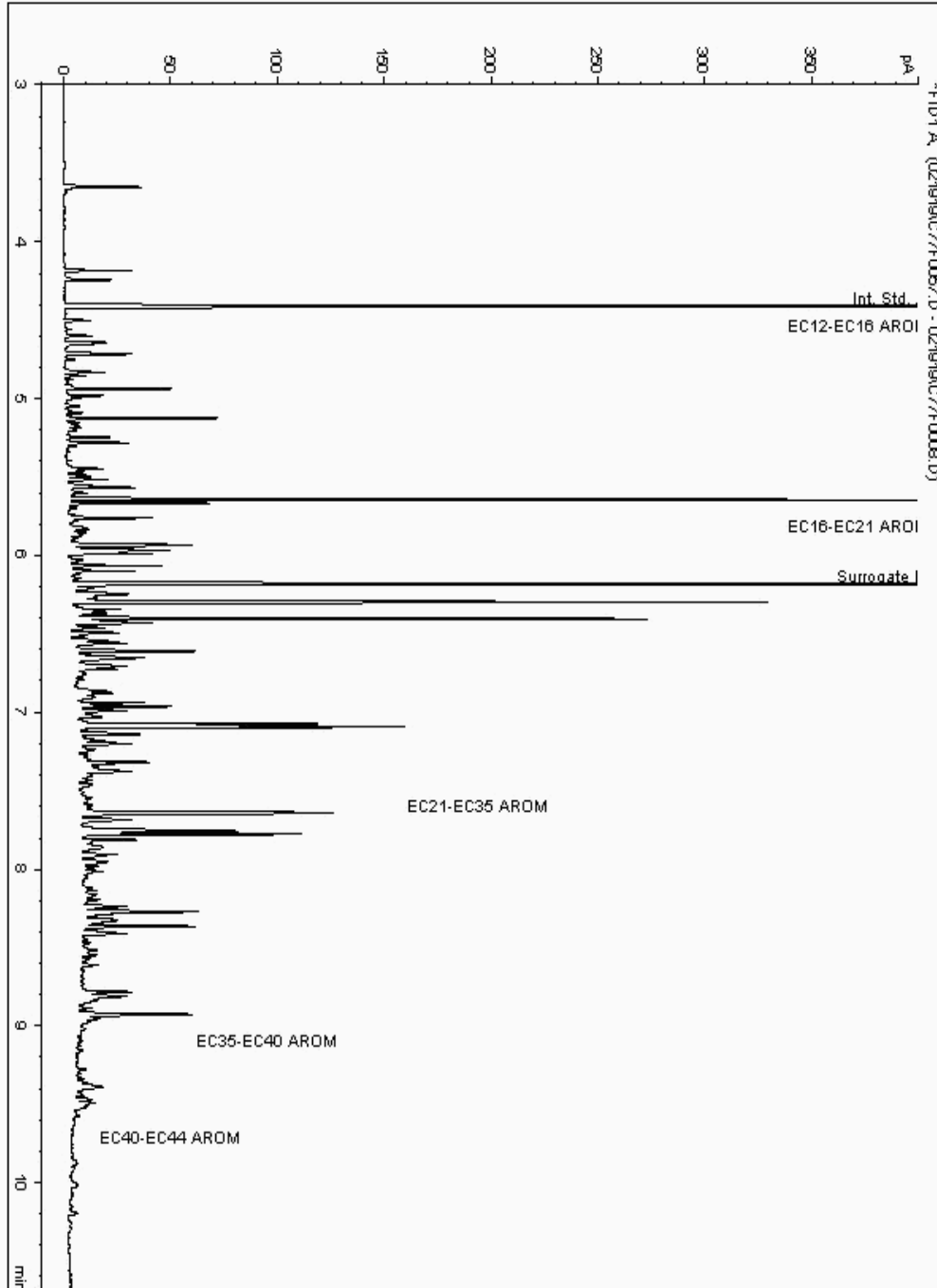
Analysis: EPH CWG (Aromatic) GC (S)
19357899

Sample No :
Sample ID : BH207

19,357,899Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109974-
Date Acquired : 20/02/2019 03:37:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

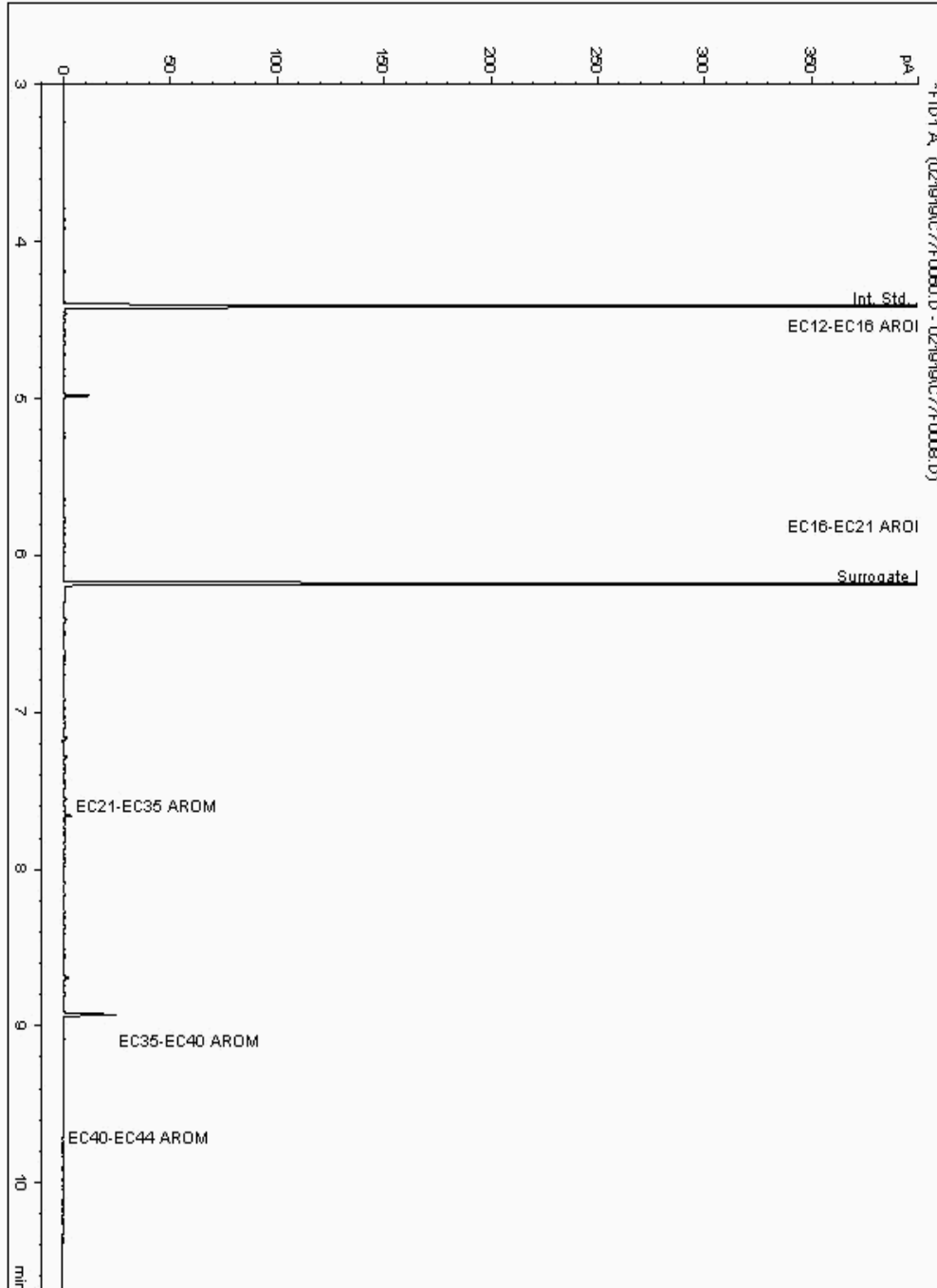
Analysis: EPH CWG (Aromatic) GC (S)
19361712

Sample No :
Sample ID : BH208

19,361,712 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18111038-
Date Acquired : 20/02/2019 04:21:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

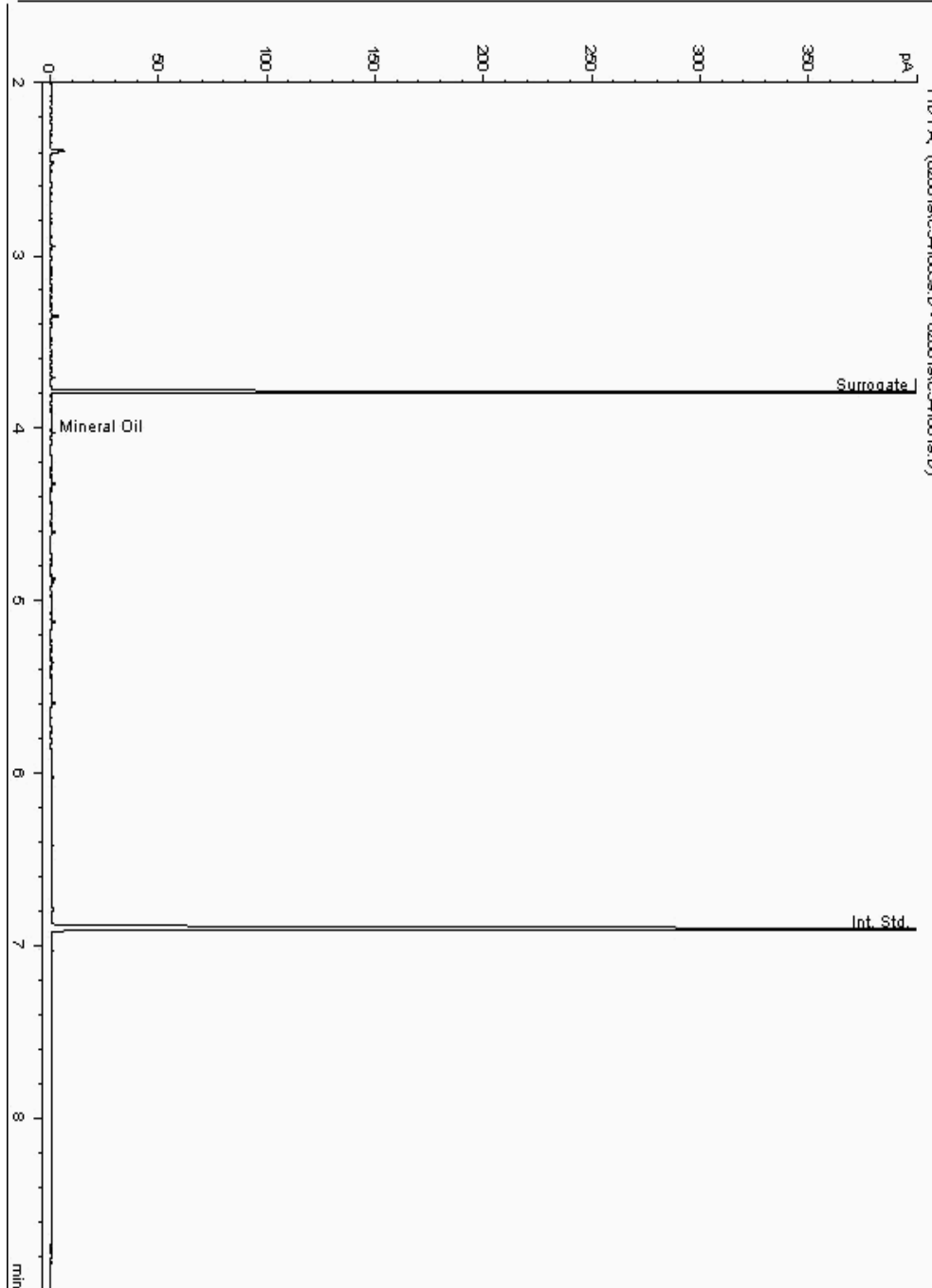
Analysis: Mineral Oil
19293454

Sample No :
Sample ID : BH209

19,293,454Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112075-
Date Acquired : 08/02/2019 20:21:06 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

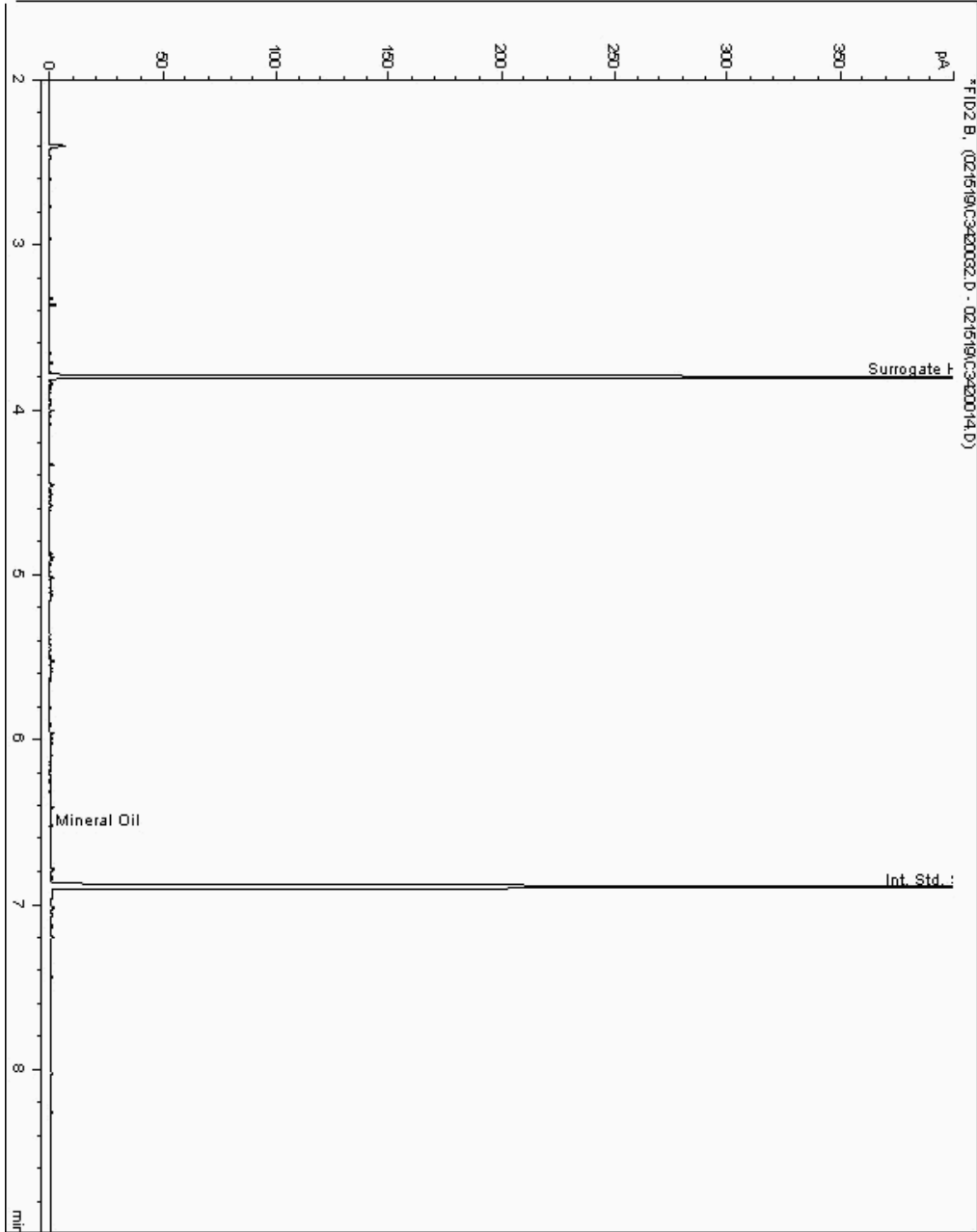
Analysis: Mineral Oil
19339915

Sample No :
Sample ID : BH220

19,339,915 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111752-
Date Acquired : 15/02/19 19:53:20 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

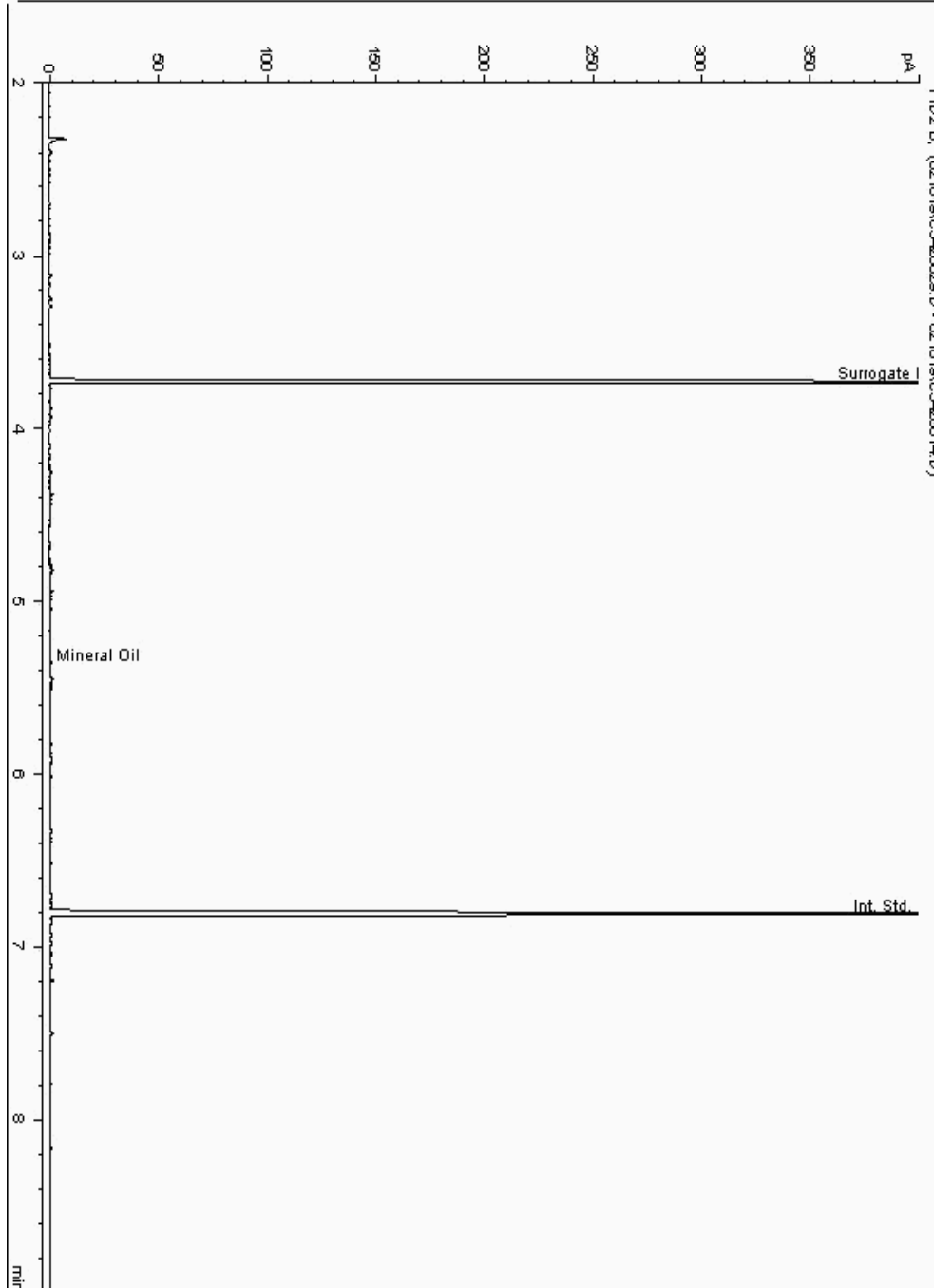
Analysis: Mineral Oil
19339990

Sample No :
Sample ID : BH220

19,339,990Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111680-
Date Acquired : 18/02/2019 20:01:23 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

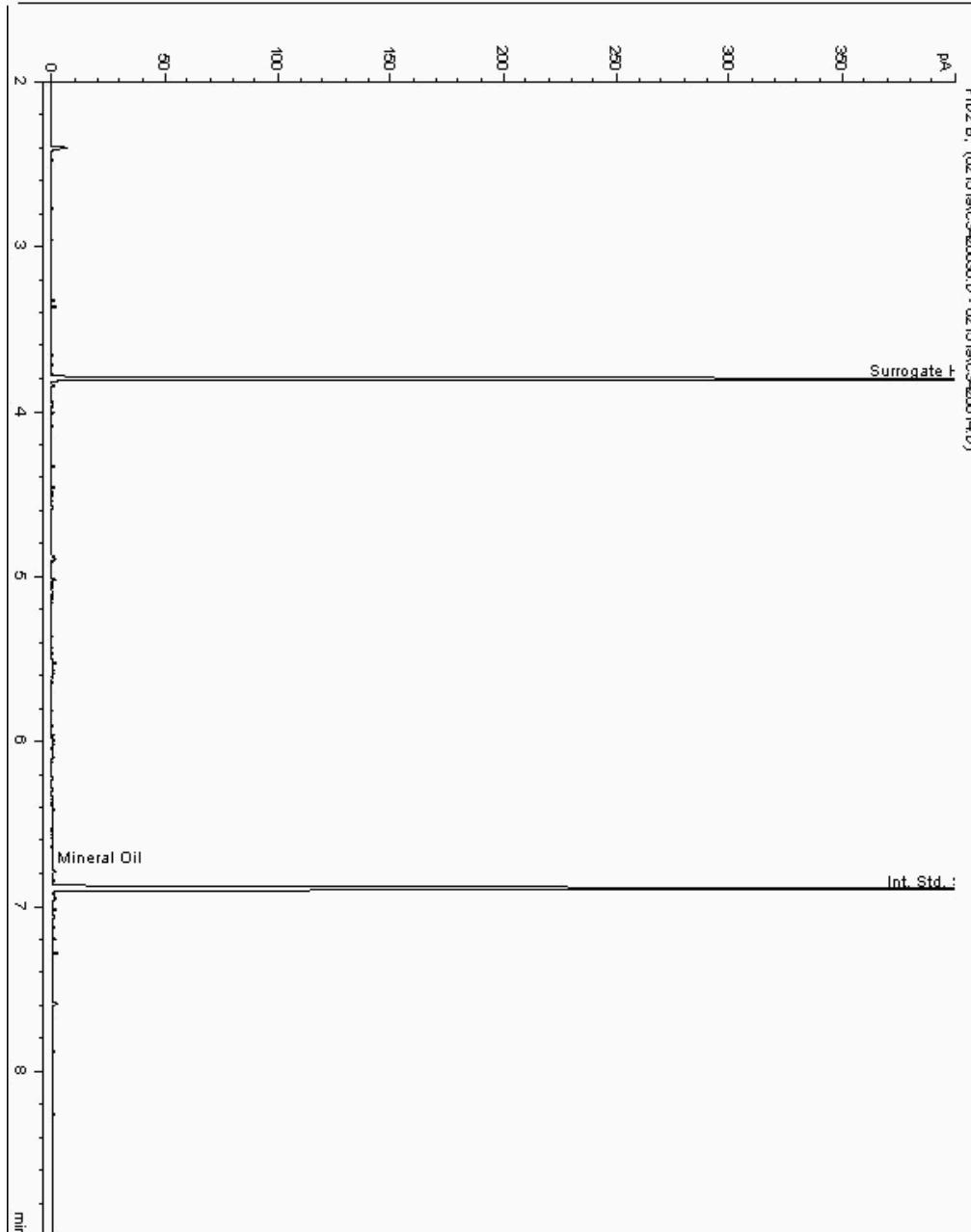
Analysis: Mineral Oil
19340212

Sample No :
Sample ID : BH209

19,340,212 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111972-
Date Acquired : 15/02/19 21:14:03 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

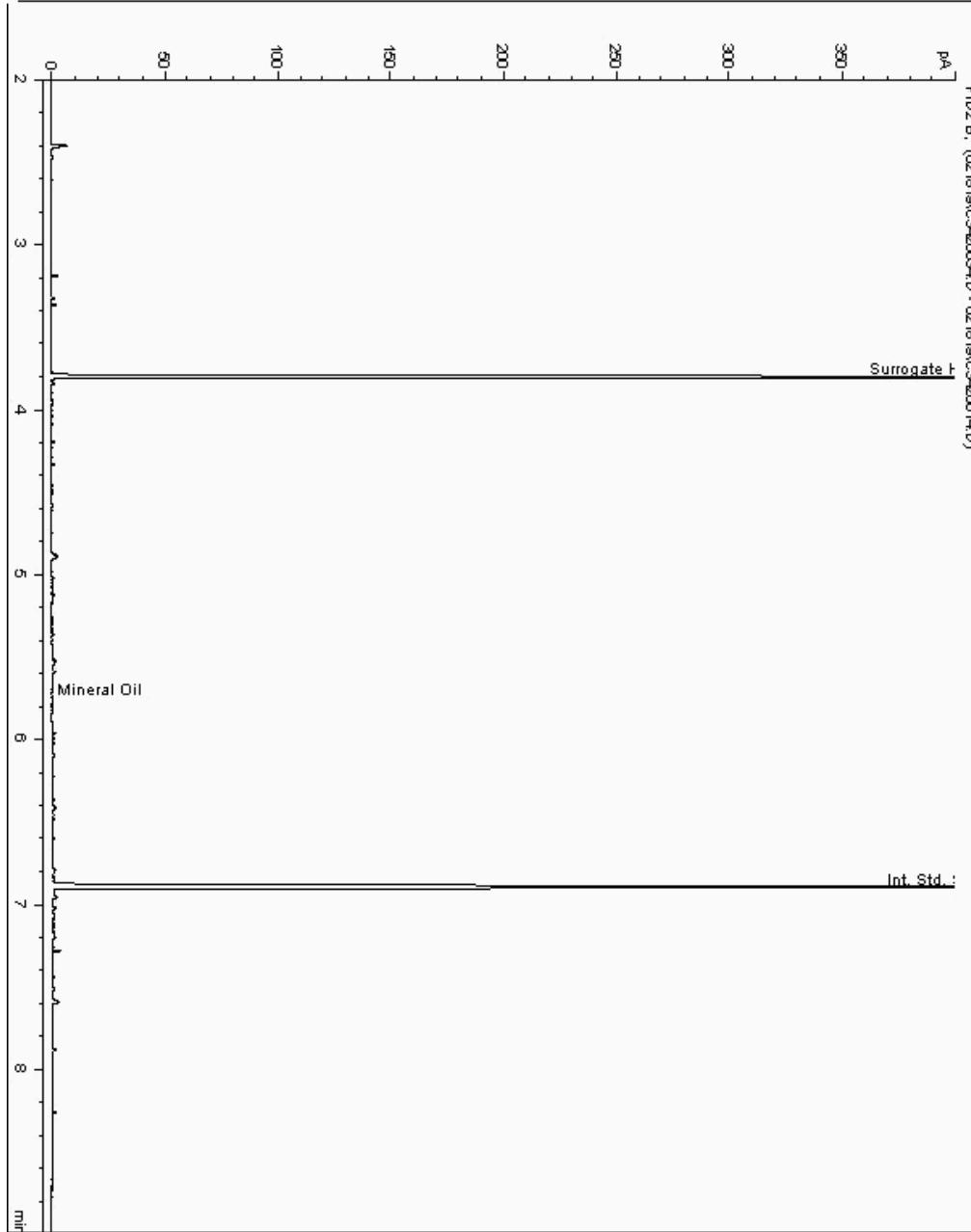
Analysis: Mineral Oil
19340288

Sample No :
Sample ID : BH220

19,340,288Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111655-
Date Acquired : 18/02/19 17:56:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

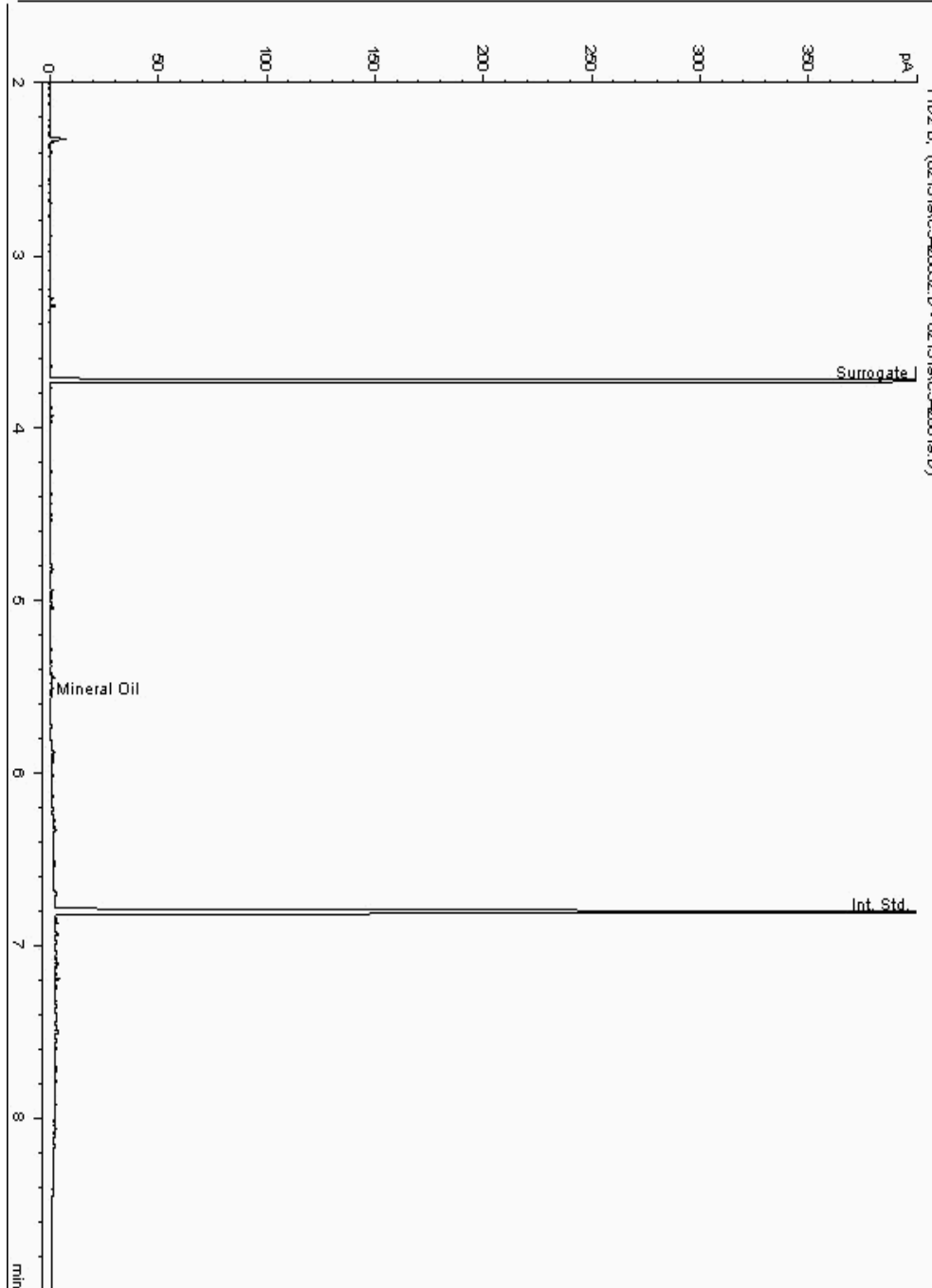
Analysis: Mineral Oil
19340357

Sample No :
Sample ID : BH209

19,340,357Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111995-
Date Acquired : 15/02/2019 16:49:08 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

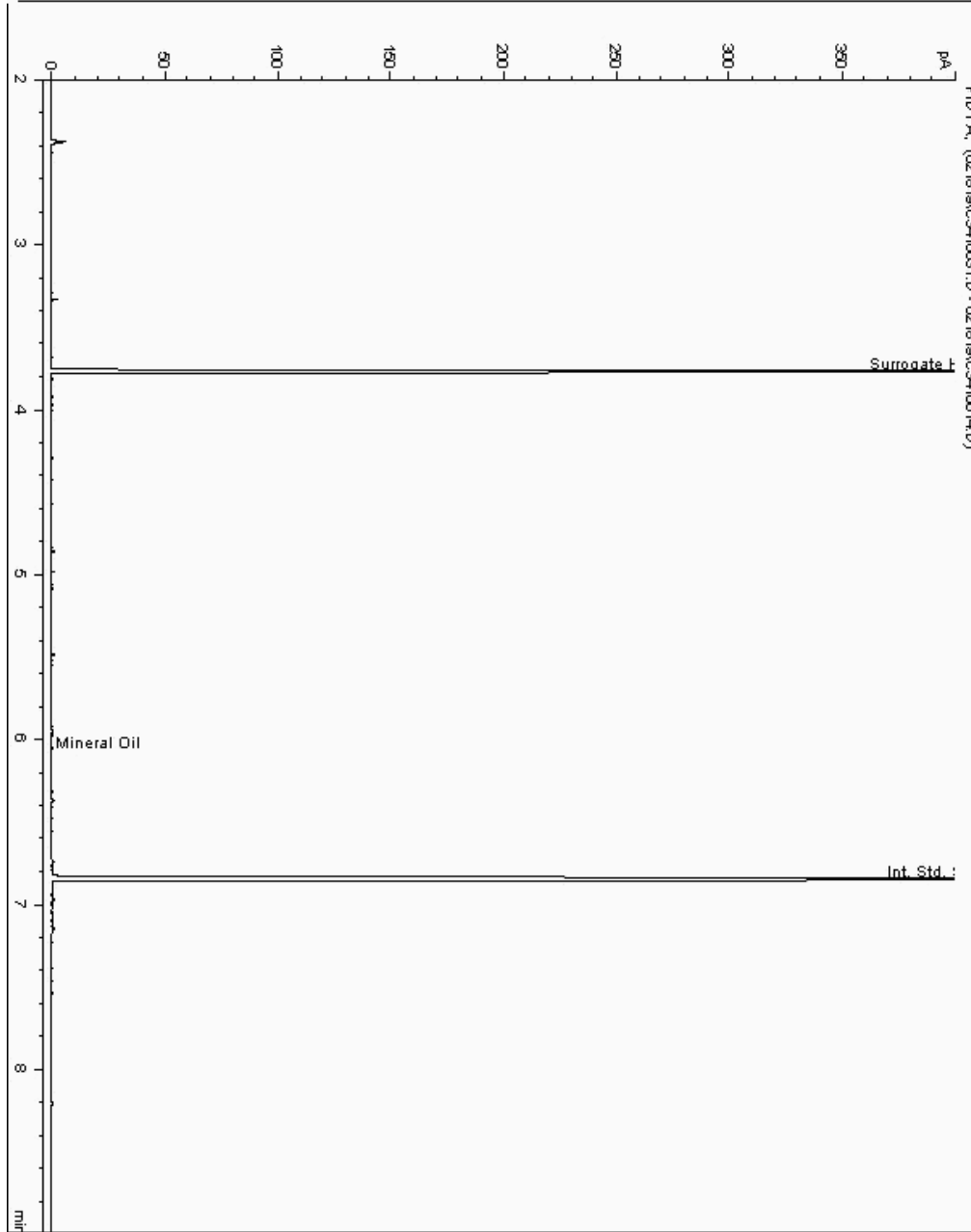
Analysis: Mineral Oil
19340453

Sample No :
Sample ID : BH209

19,340,453 Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111853-
Date Acquired : 18/02/19 17:03:53 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

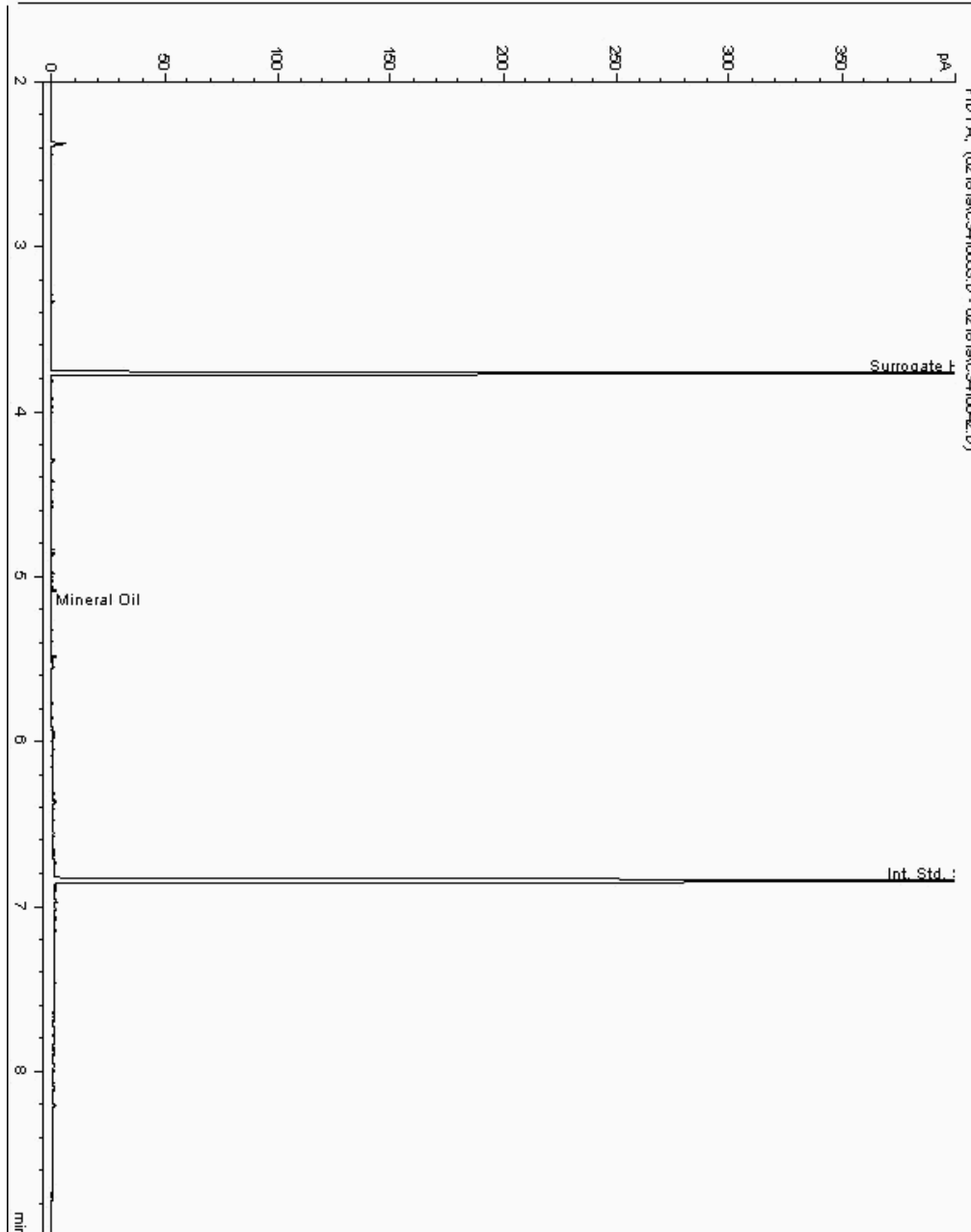
Analysis: Mineral Oil
19340517

Sample No :
Sample ID : BH209

19,340,517Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111878-
Date Acquired : 18/02/19 23:49:57 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

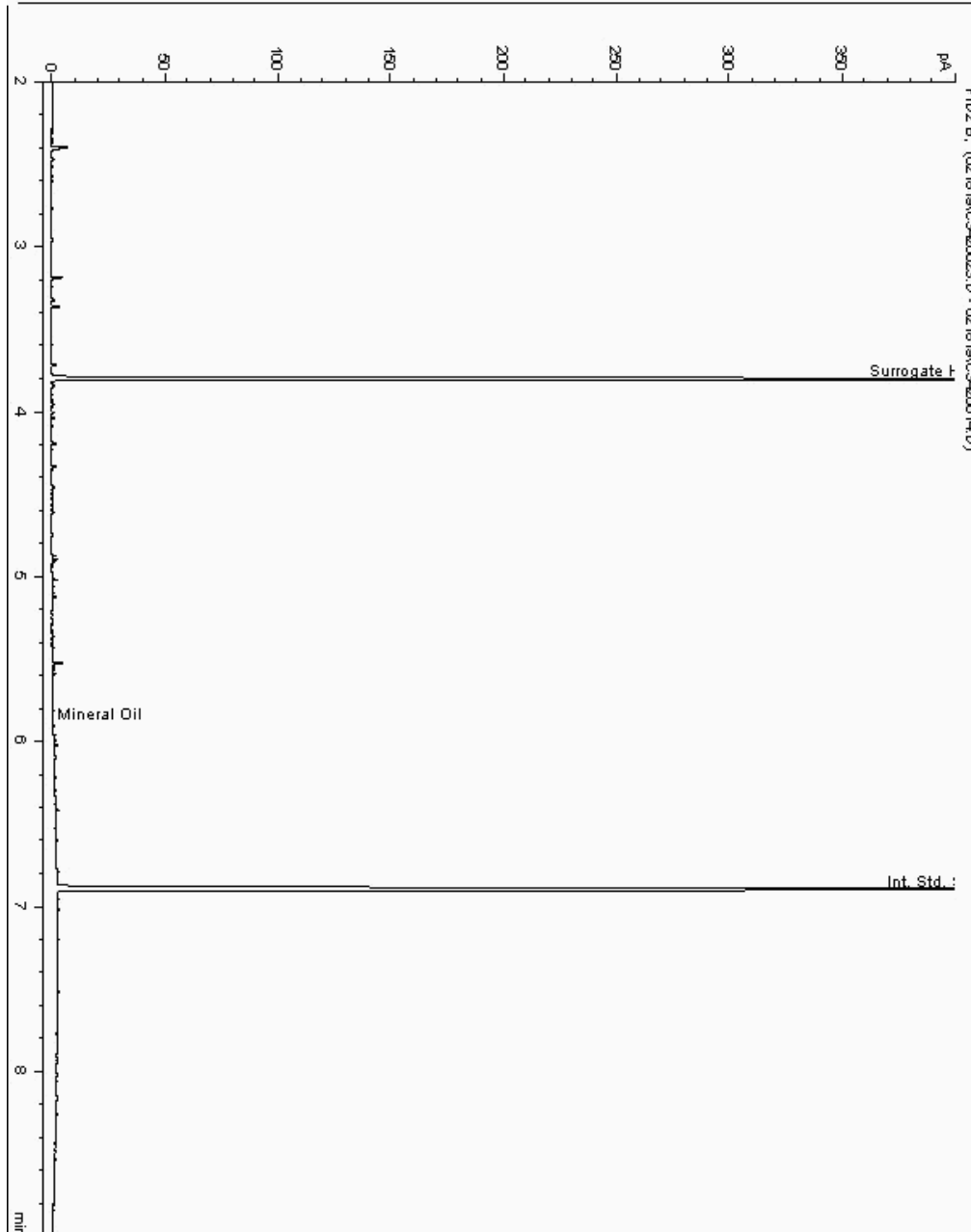
Analysis: Mineral Oil
19340680

Sample No :
Sample ID : BH209

19,340,680Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111903-
Date Acquired : 18/02/19 14:25:16 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

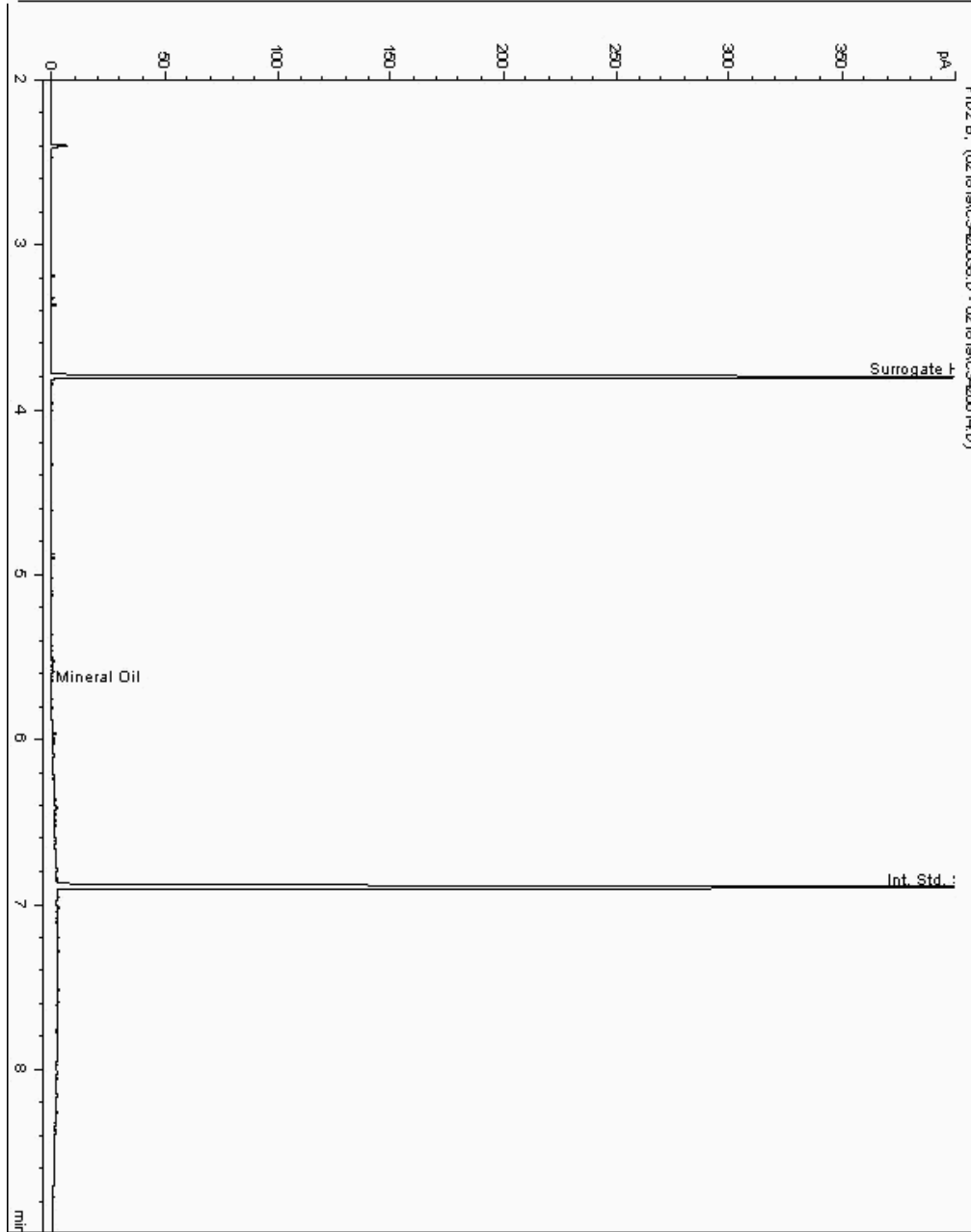
Analysis: Mineral Oil
19340921

Sample No :
Sample ID : BH209

19,340,921Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111926-
Date Acquired : 18/02/19 19:10:03 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

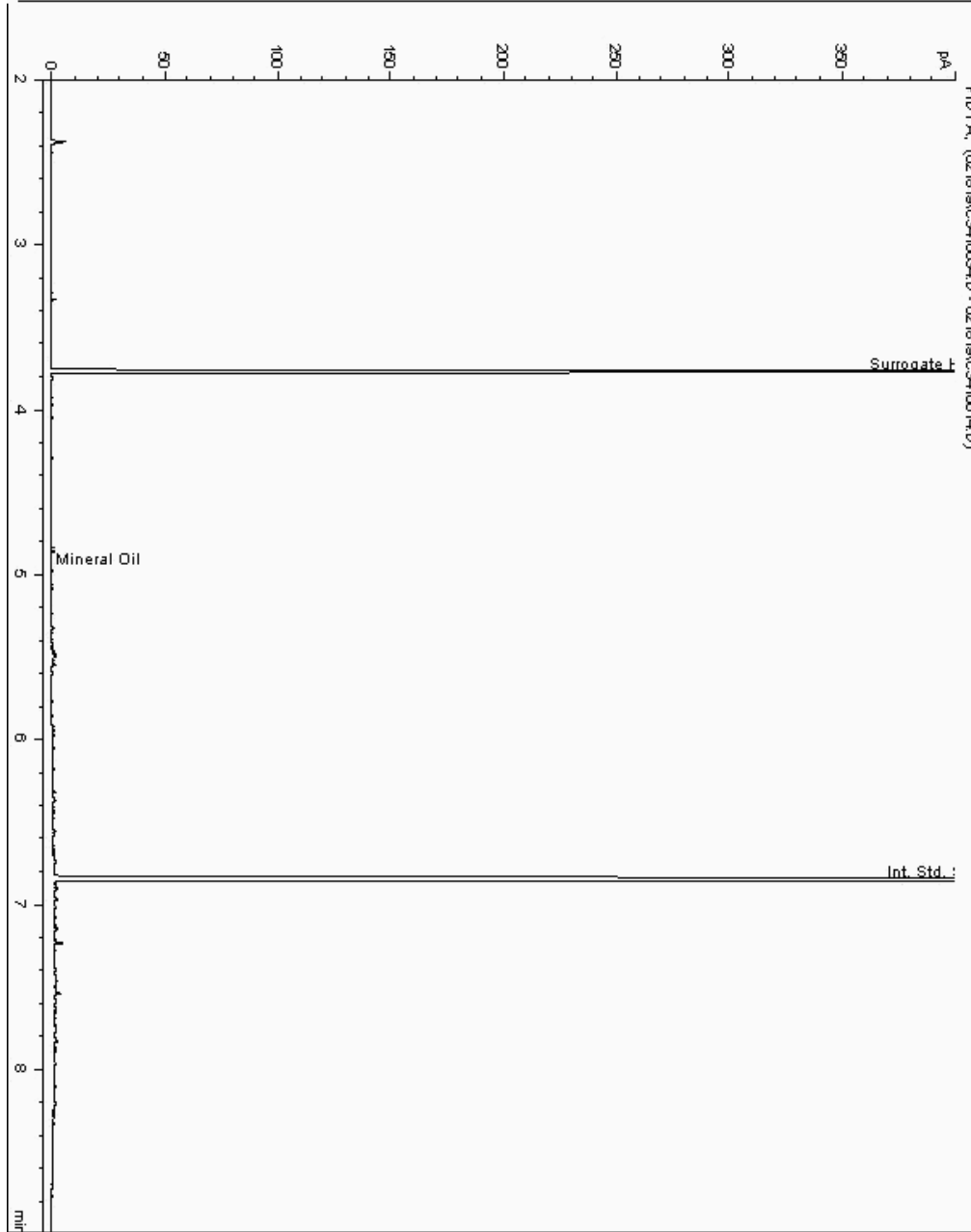
Analysis: Mineral Oil
19341029

Sample No :
Sample ID : BH209

19,341,029 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111949-
Date Acquired : 18/02/19 17:56:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

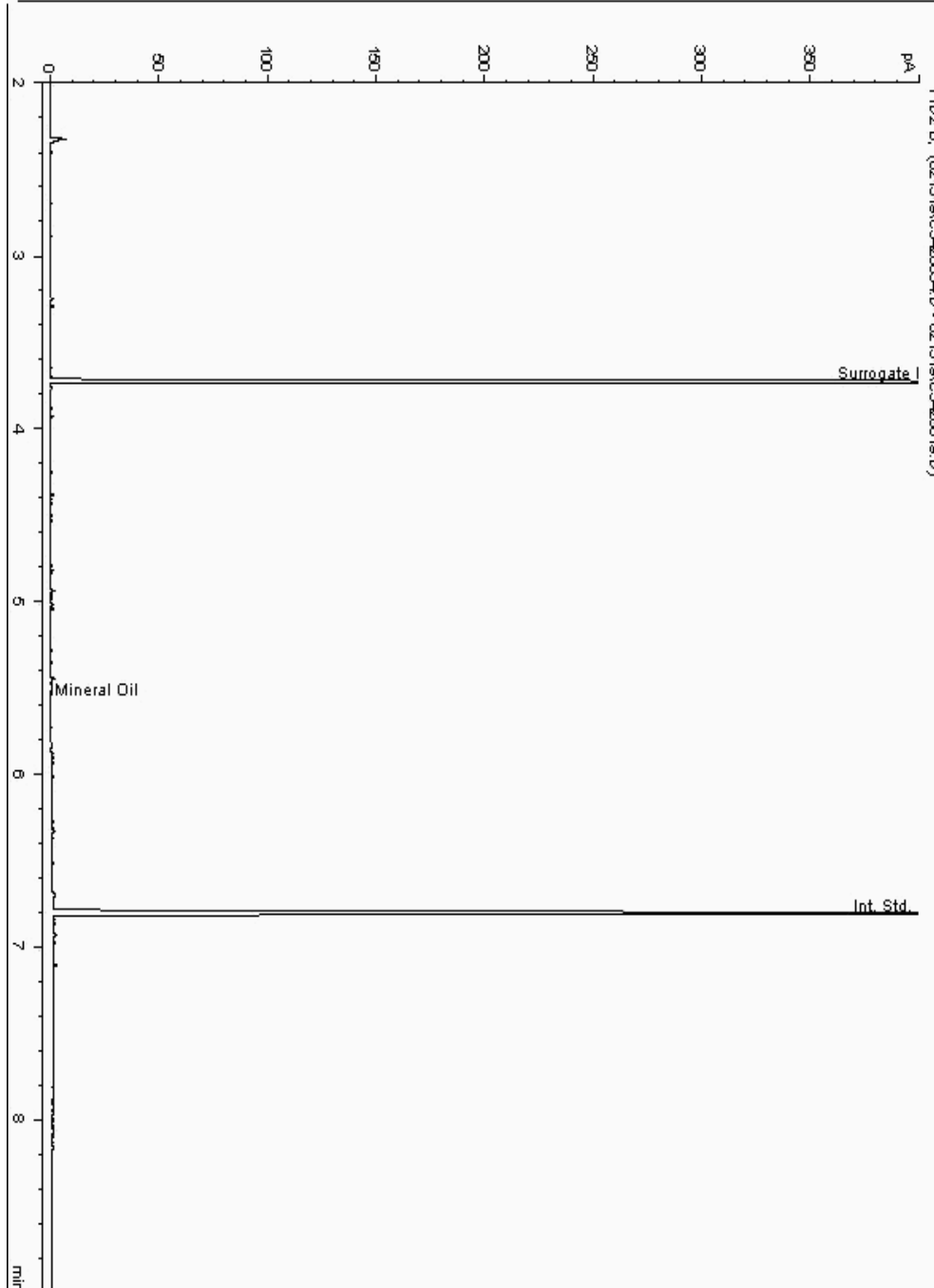
Analysis: Mineral Oil
19341194

Sample No :
Sample ID : BH209

19,341,194Depth :9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112018-
Date Acquired : 15/02/2019 17:30:31 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

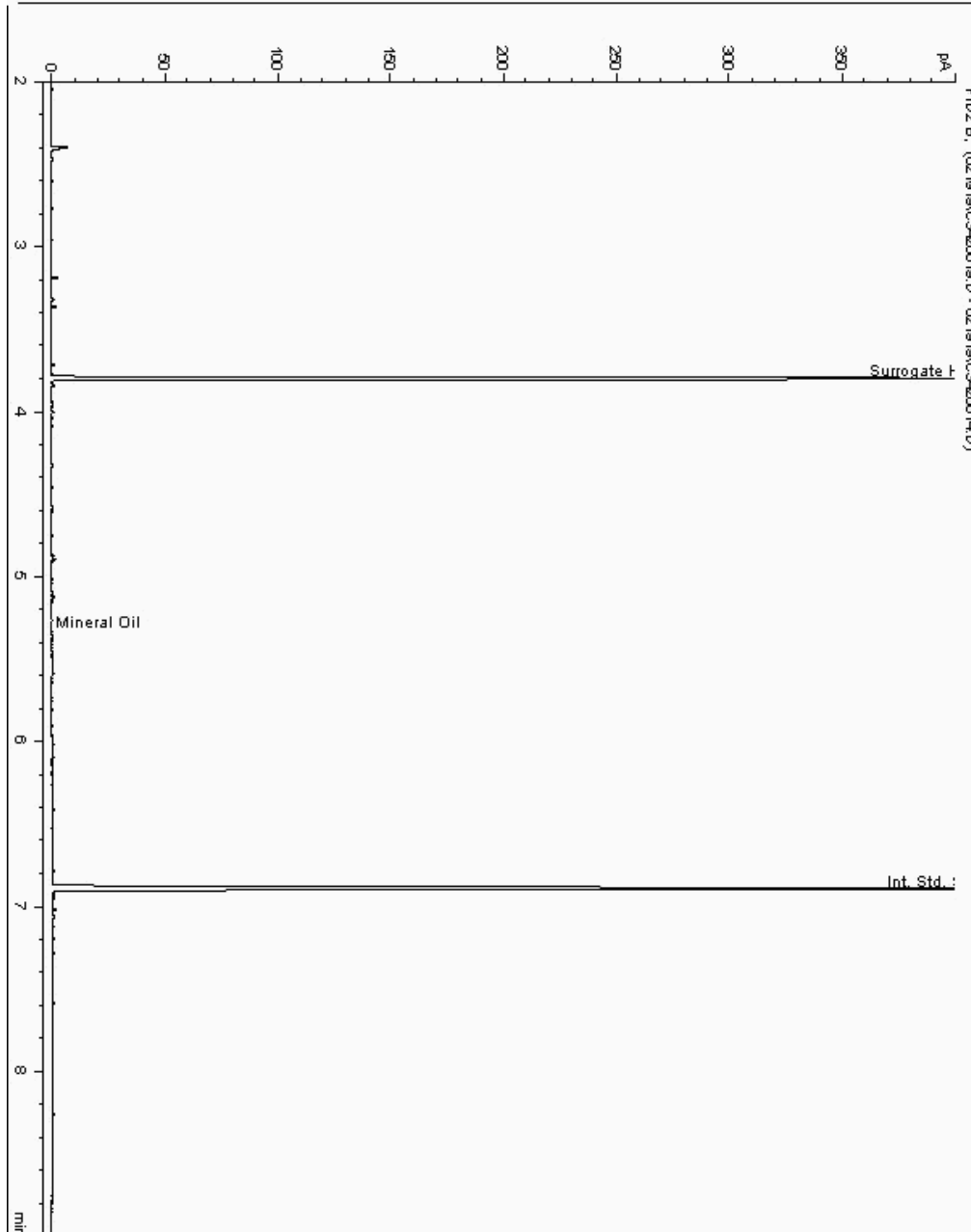
Analysis: Mineral Oil
19341307

Sample No :
Sample ID : BH220

19,341,307Depth :7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111705-
Date Acquired : 19/02/19 12:22:47 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

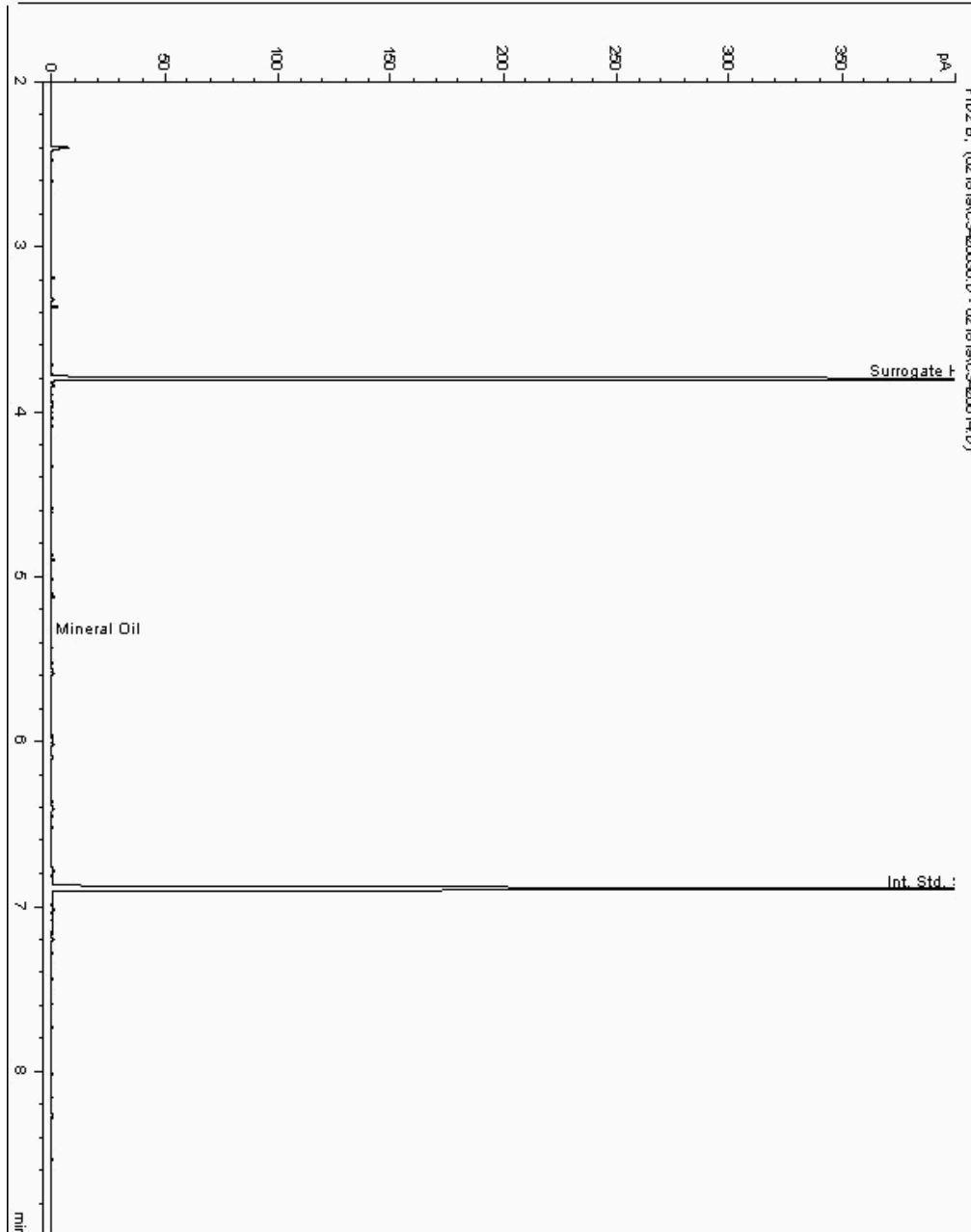
Analysis: Mineral Oil
19341432

Sample No :
Sample ID : BH220

19,341,432Depth :9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111728-
Date Acquired : 18/02/19 18:29:25 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

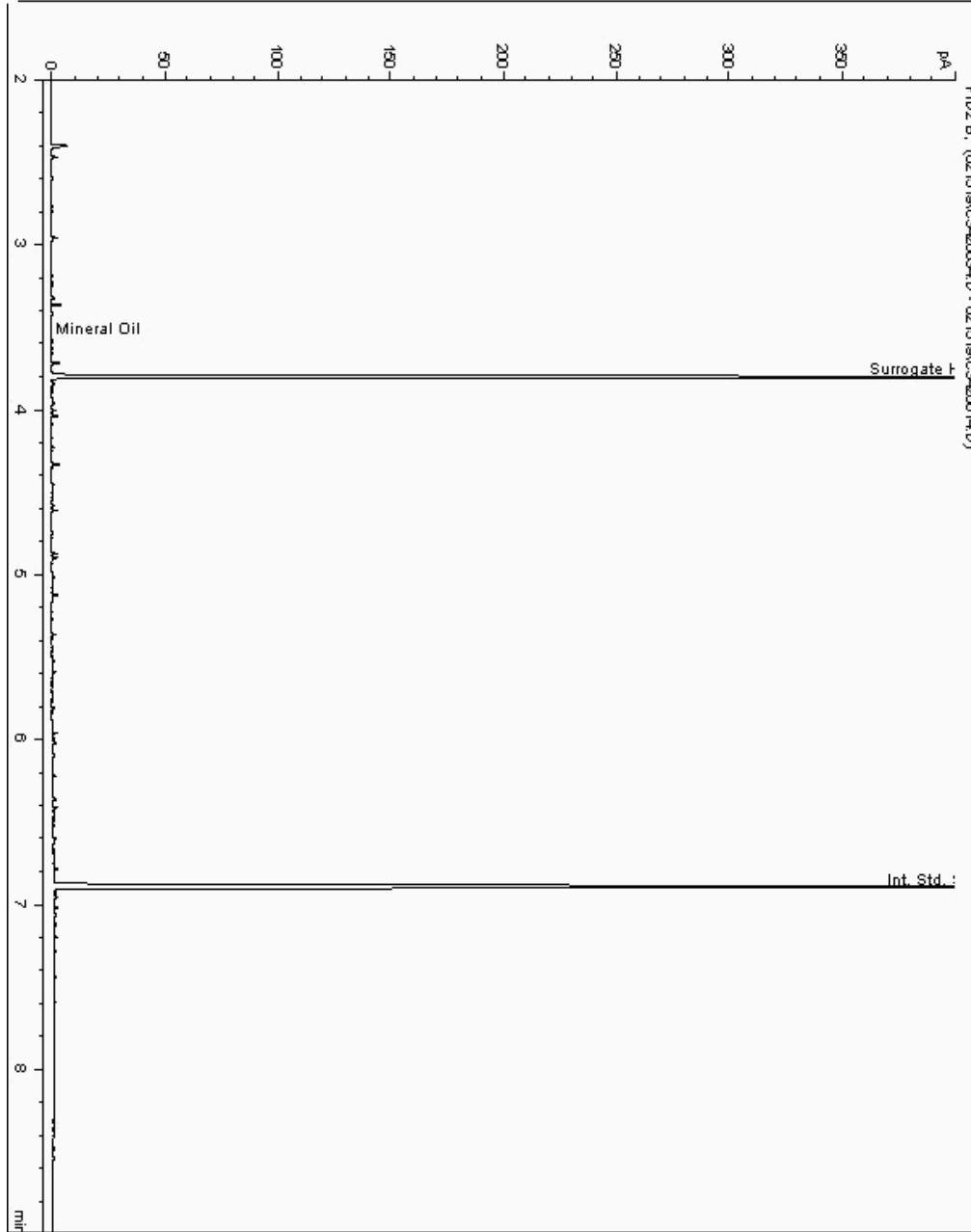
Analysis: Mineral Oil
19345384

Sample No :
Sample ID : BH206

19,345,384Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109775-
Date Acquired : 15/02/19 20:33:50 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

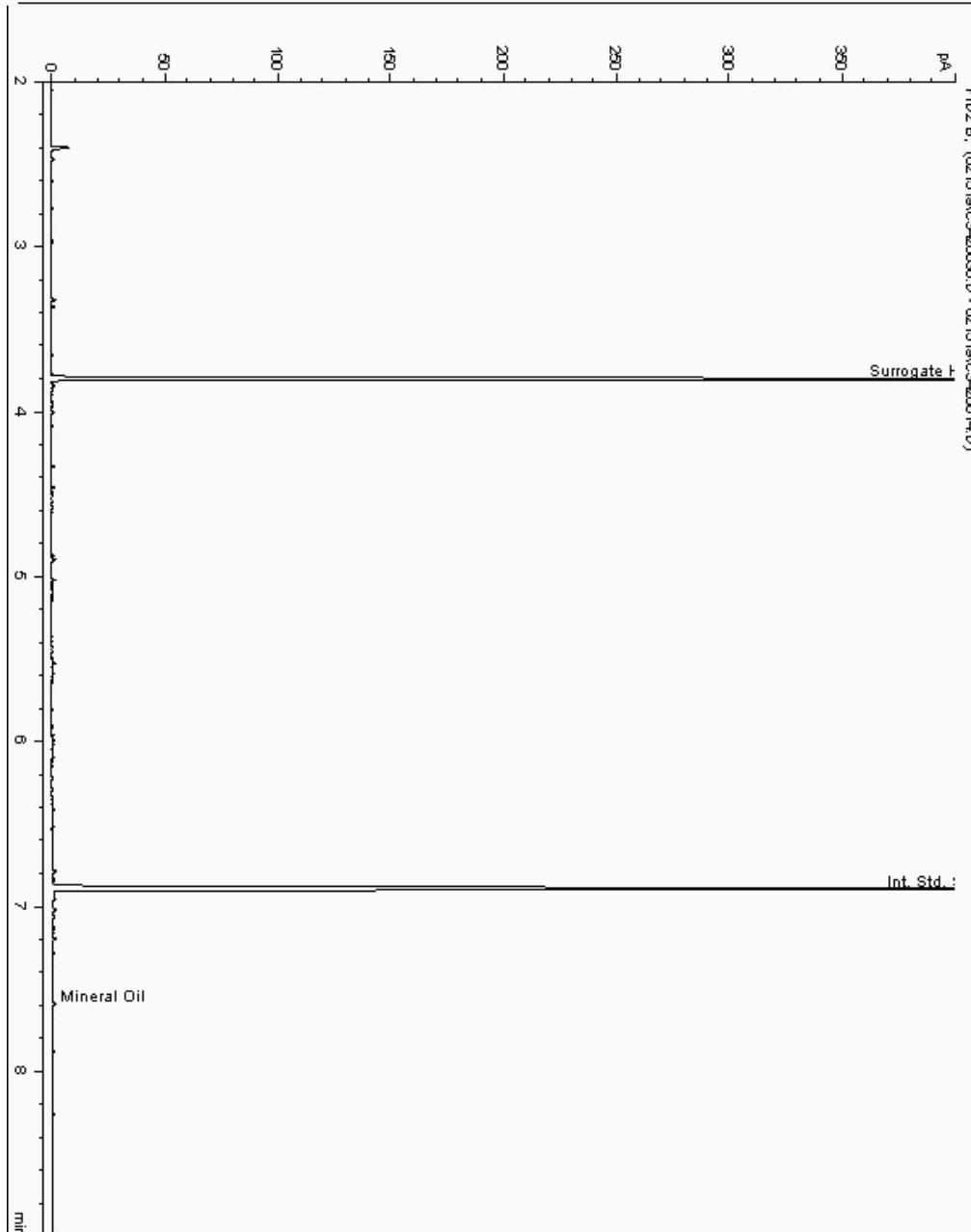
Analysis: Mineral Oil
19345492

Sample No :
Sample ID : BH221

19,345,492Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111276-
Date Acquired : 15/02/19 19:12:41 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

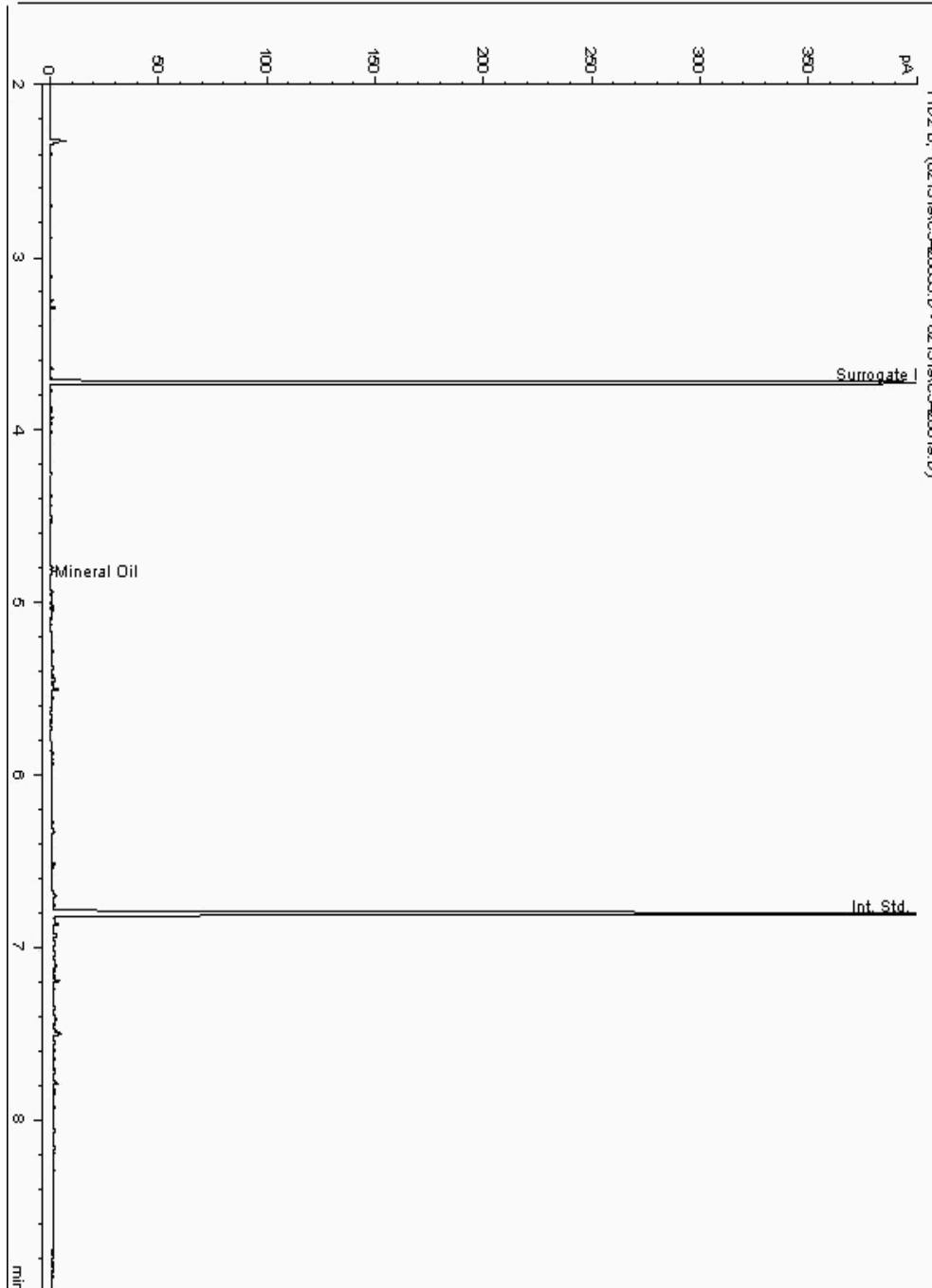
Analysis: Mineral Oil
19345546

Sample No :
Sample ID : BH208

19,345,546Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110934-
Date Acquired : 15/02/2019 17:51:07 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

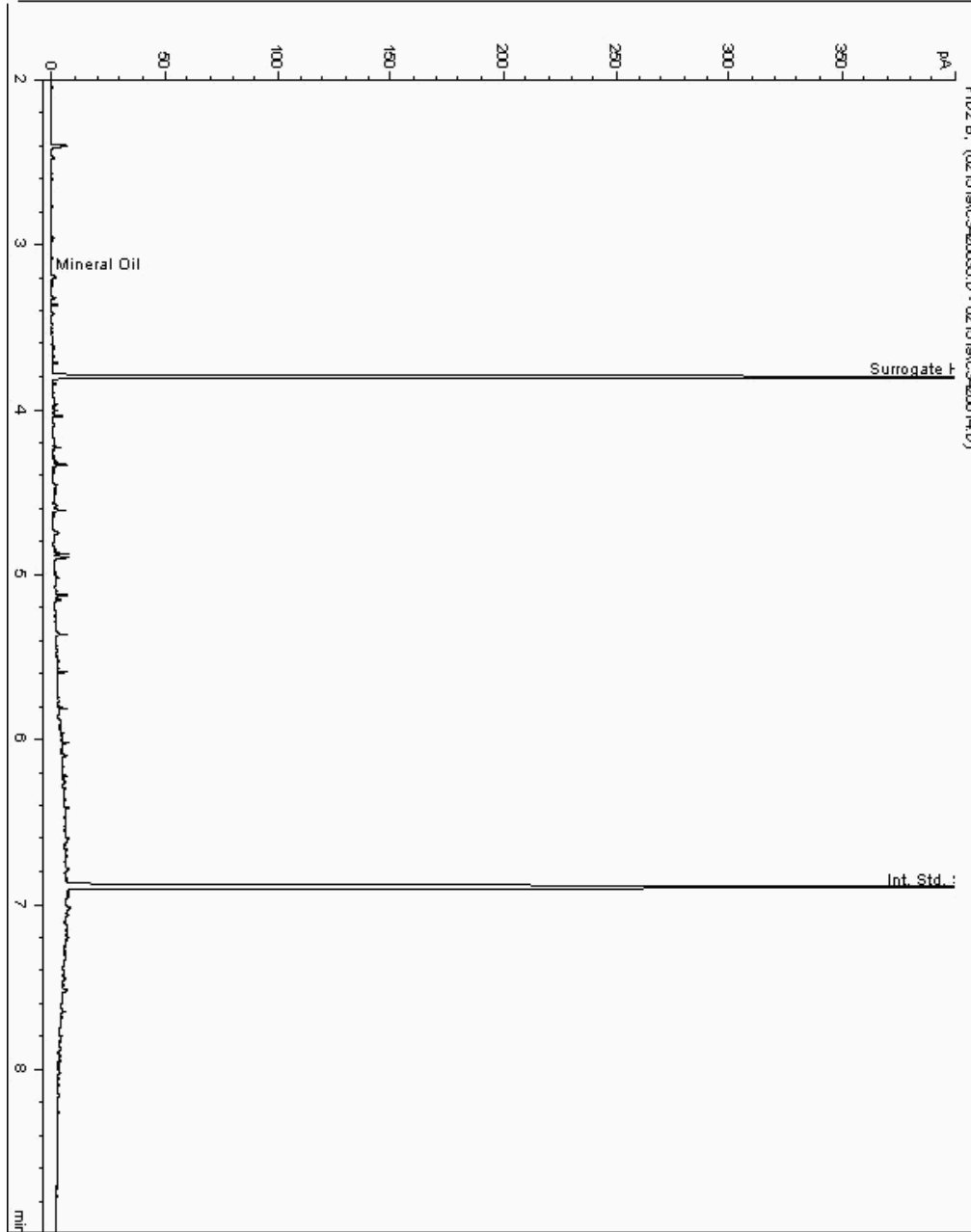
Analysis: Mineral Oil
19345584

Sample No :
Sample ID : BH220

19,345,584 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111604-
Date Acquired : 15/02/19 20:54:03 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

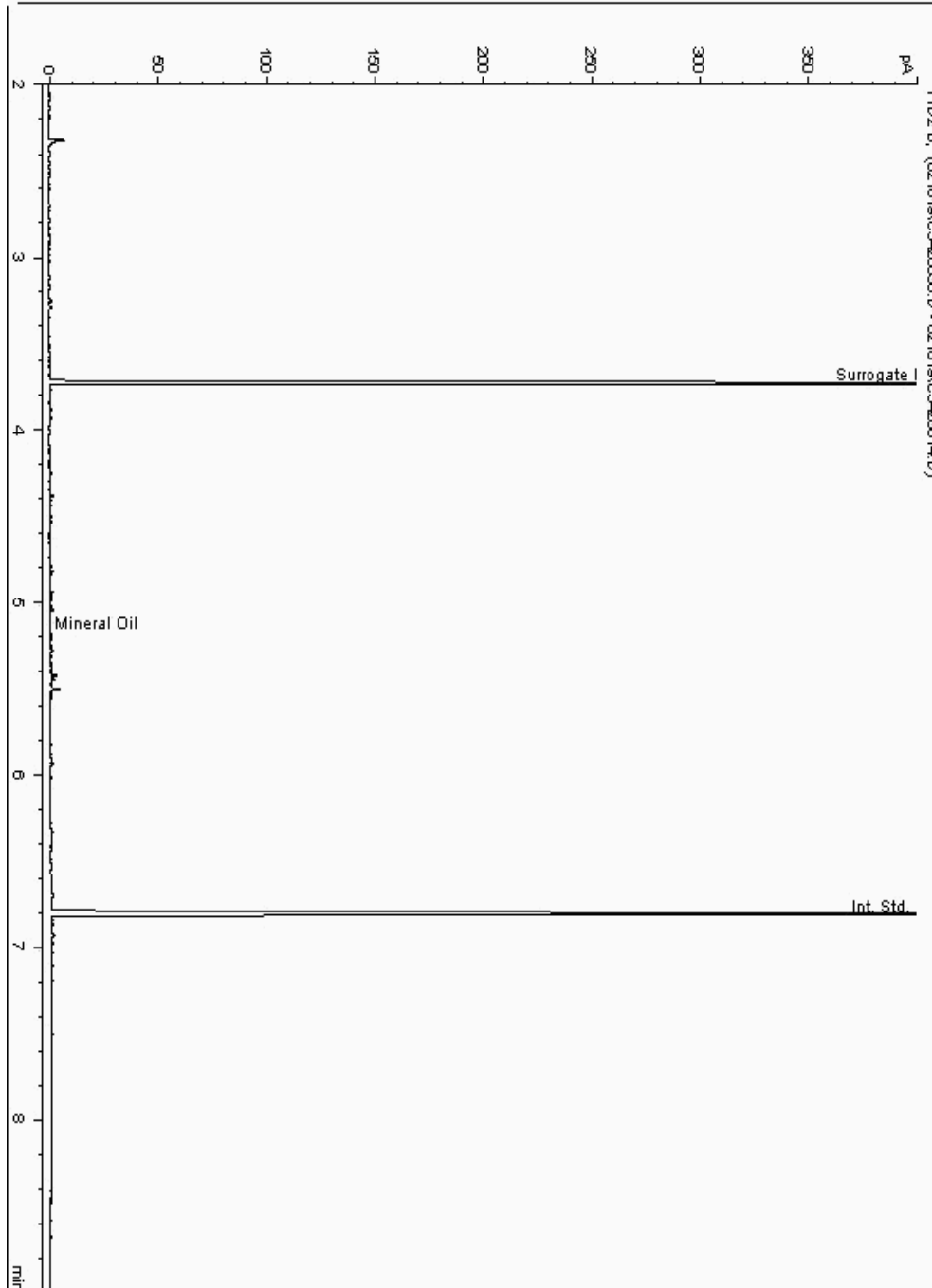
Analysis: Mineral Oil
19345626

Sample No :
Sample ID : BH208

19,345,626 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110755-
Date Acquired : 18/02/2019 22:01:32 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

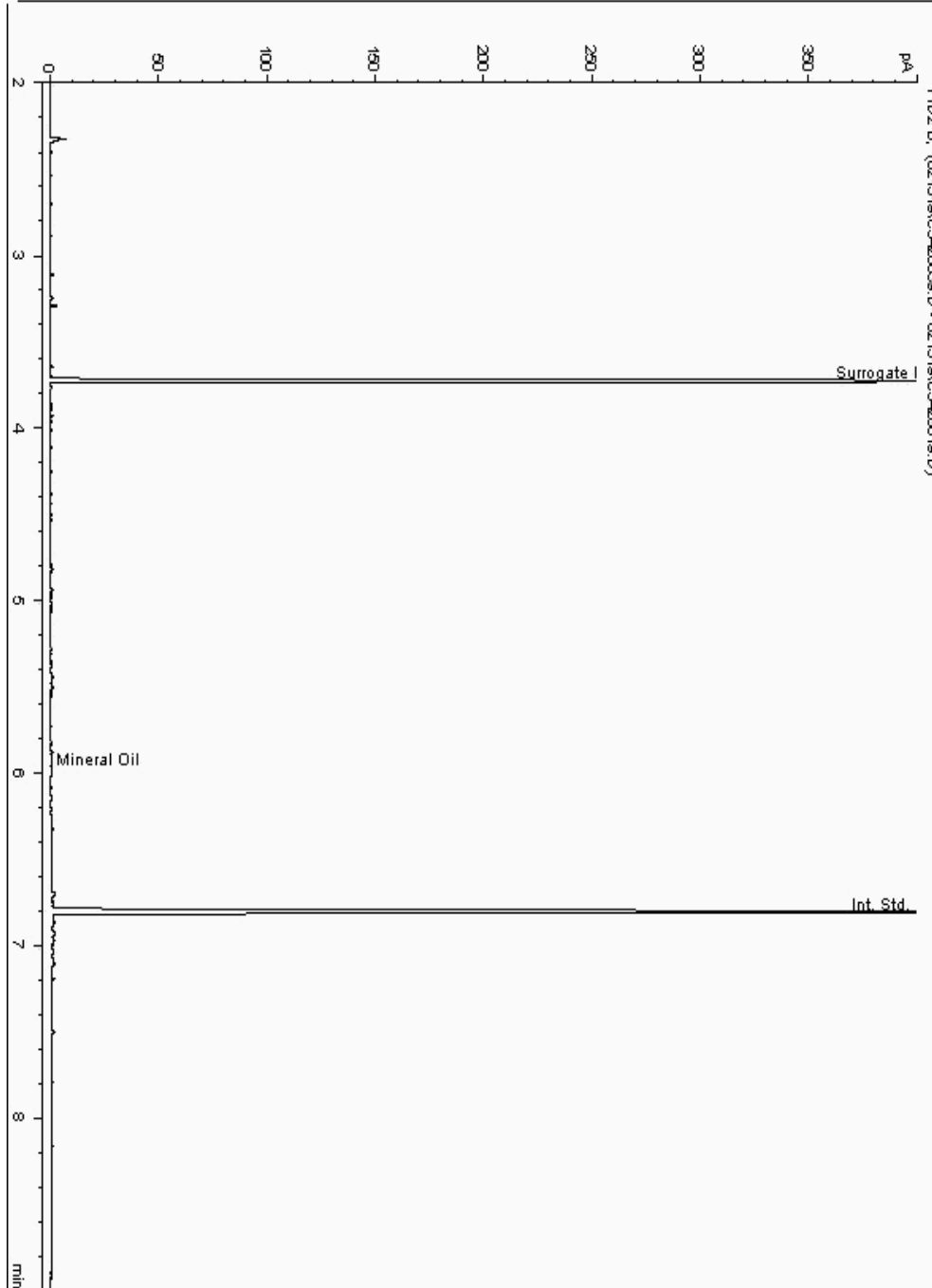
Analysis: Mineral Oil
19345657

Sample No :
Sample ID : BH221

19,345,657Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111326-
Date Acquired : 15/02/2019 19:13:46 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

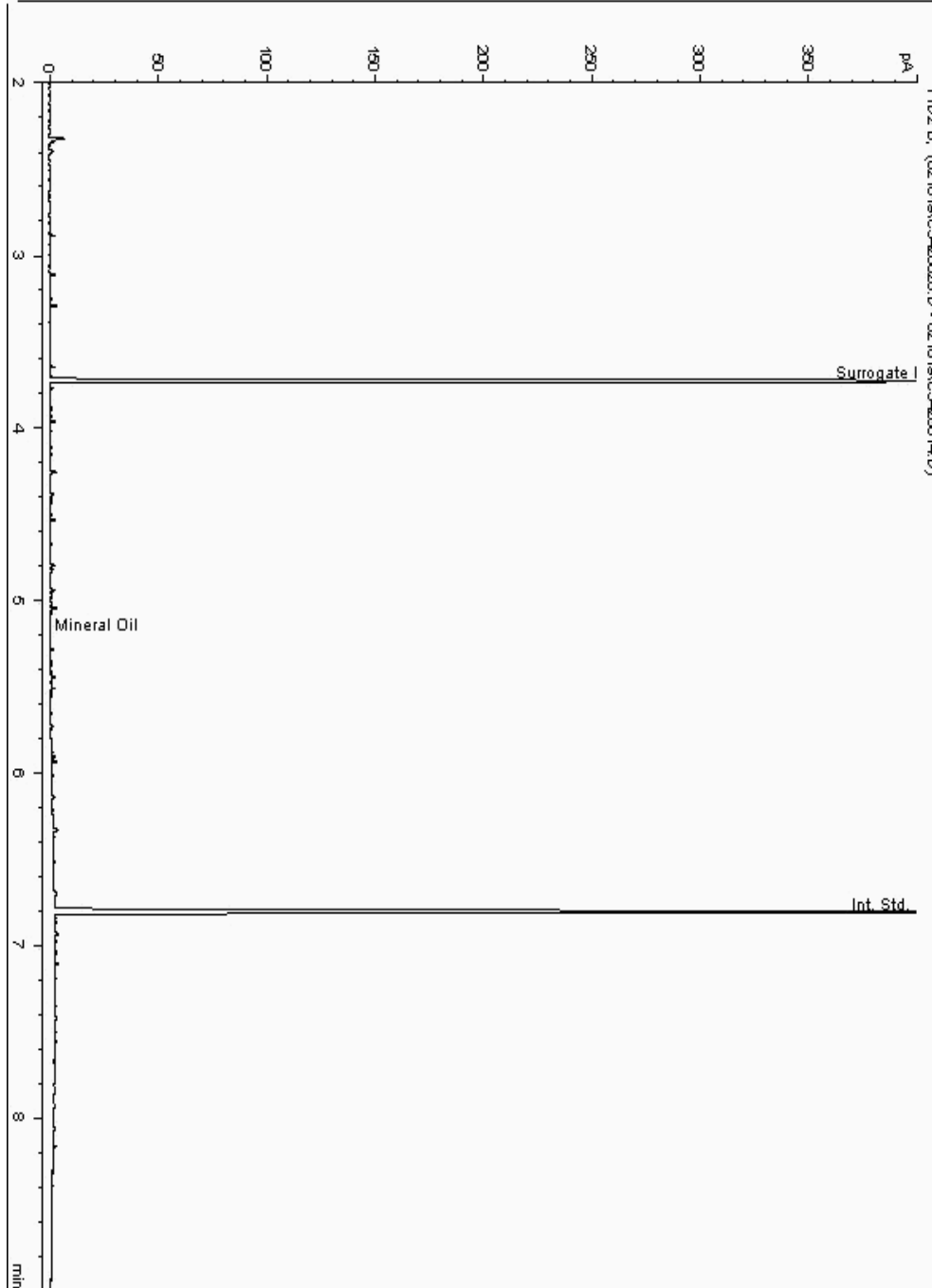
Analysis: Mineral Oil
19345791

Sample No :
Sample ID : BH206

19,345,791 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109903-
Date Acquired : 18/02/2019 19:40:21 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

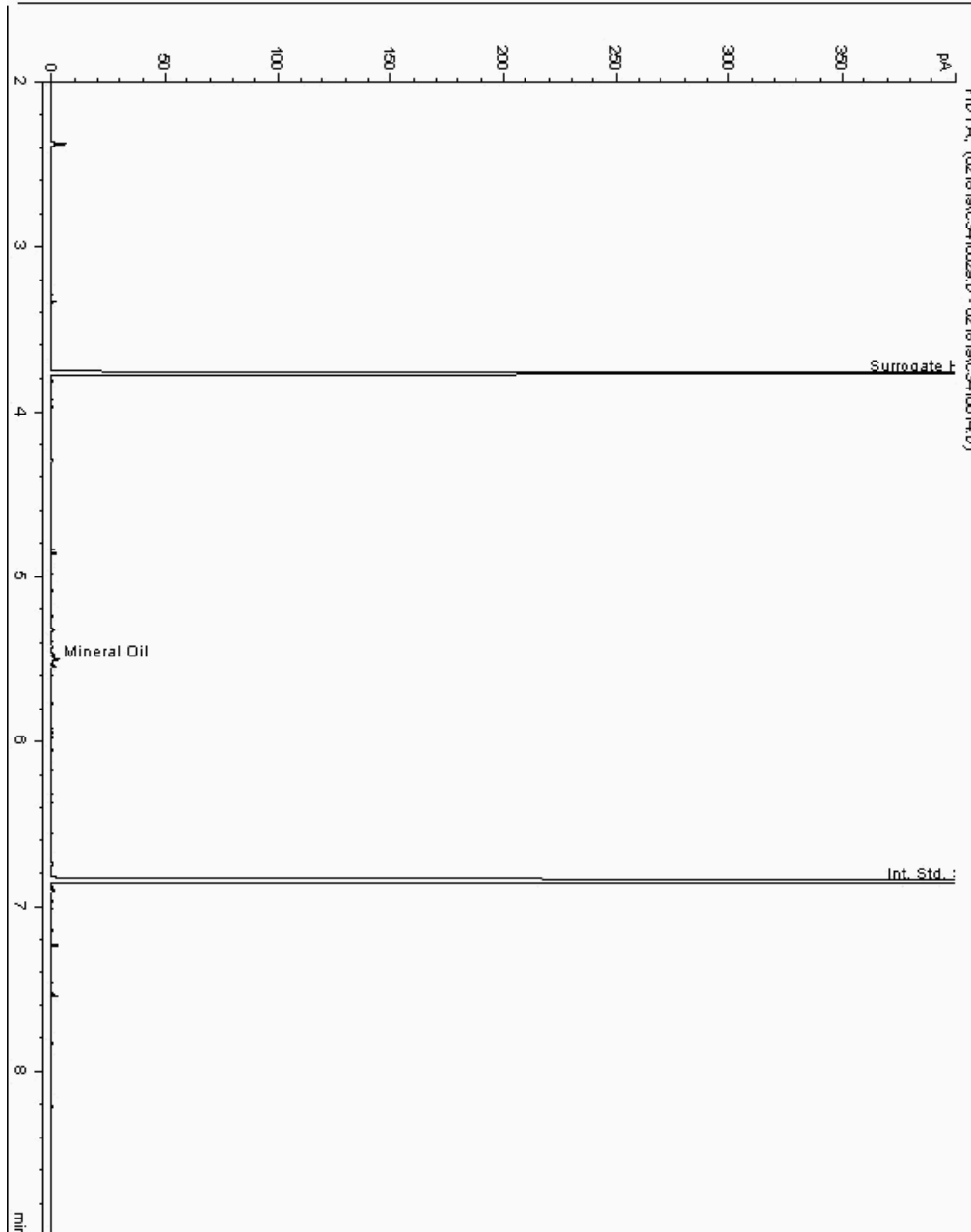
Analysis: Mineral Oil
19345799

Sample No :
Sample ID : BH221

19,345,799Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112837-
Date Acquired : 18/02/19 16:31:29 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

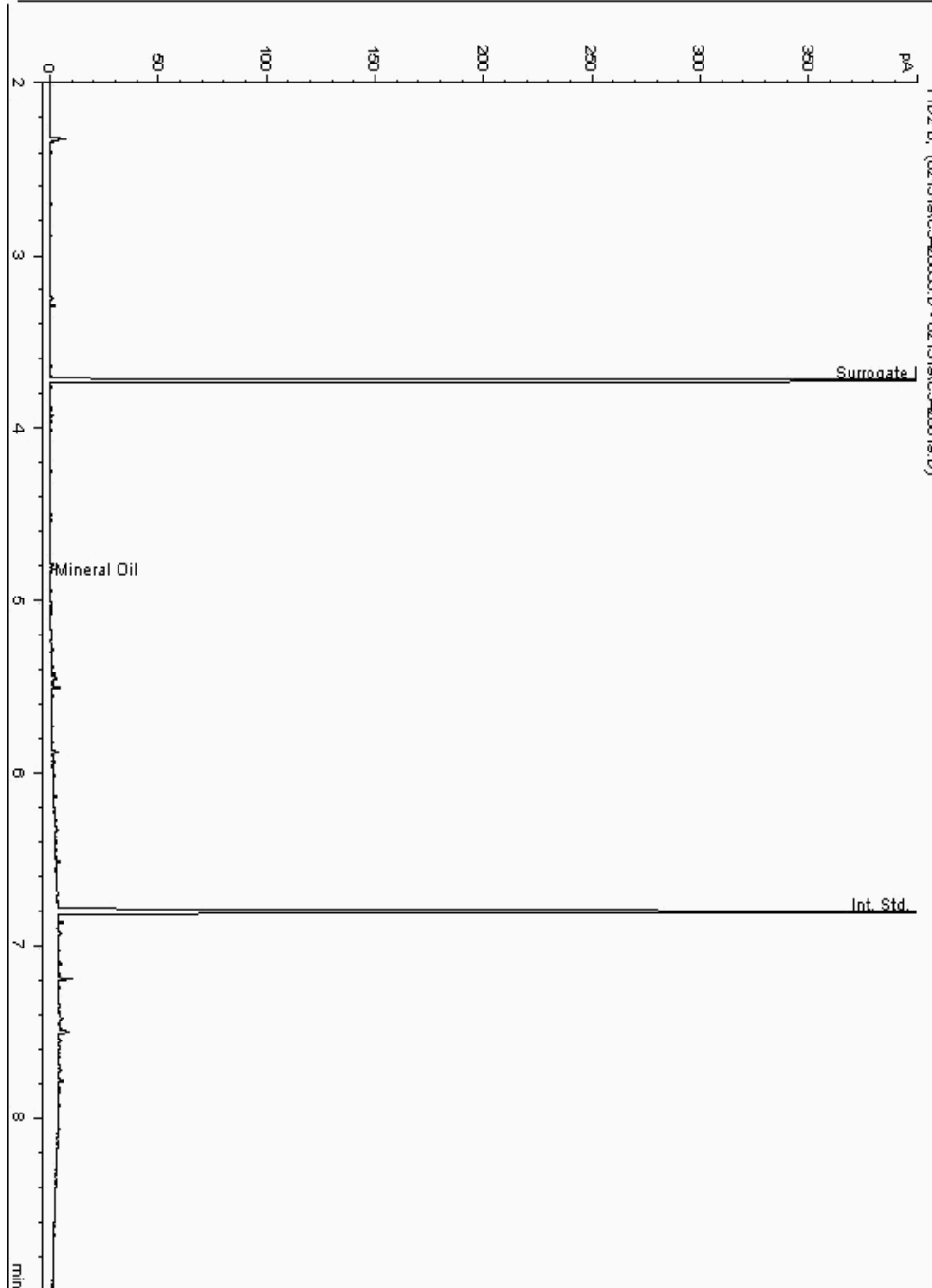
Analysis: Mineral Oil
19345806

Sample No :
Sample ID : BH206

19,345,806Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109529-
Date Acquired : 15/02/2019 17:09:44 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

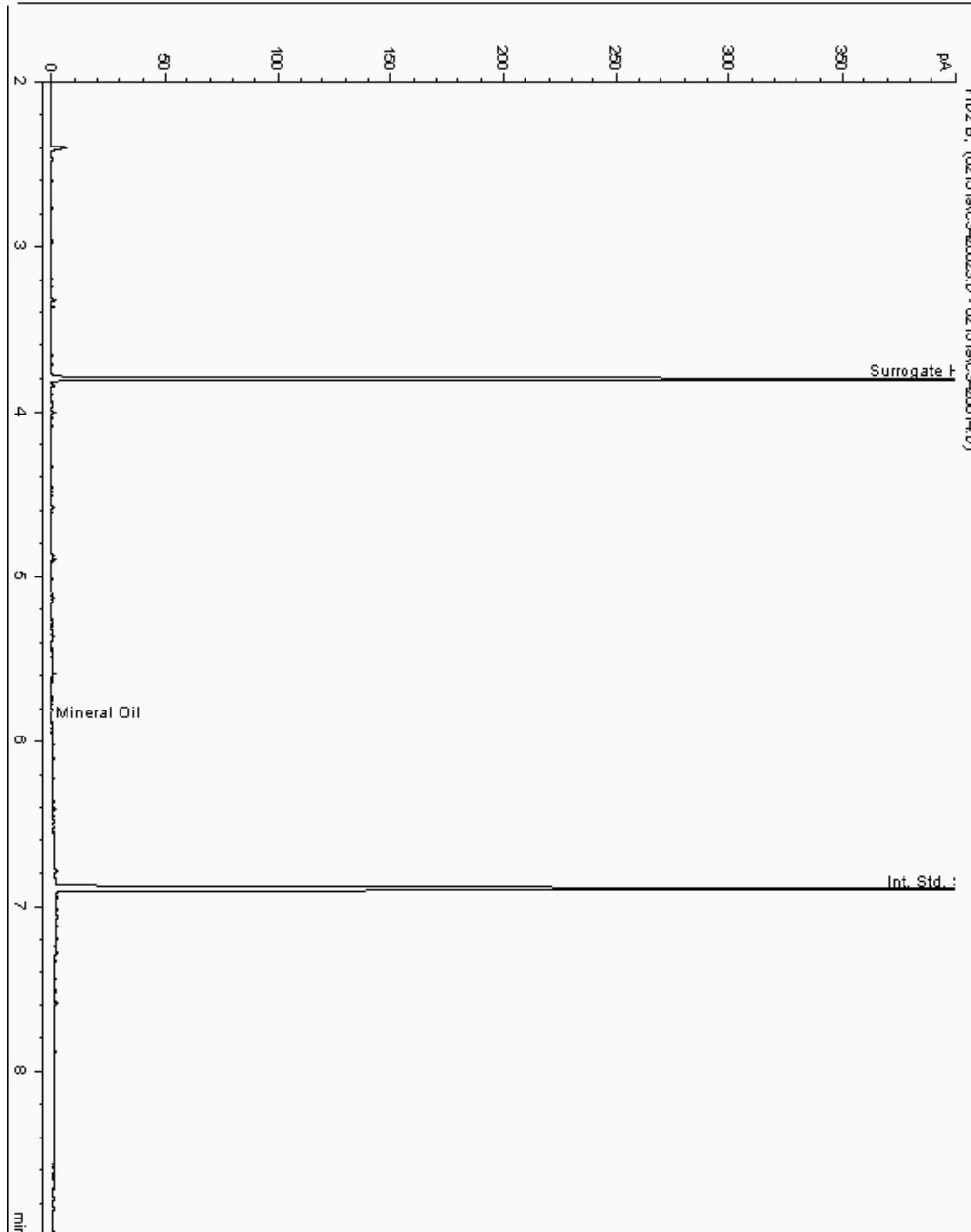
Analysis: Mineral Oil
19345932

Sample No :
Sample ID : BH221

19,345,932Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111354-
Date Acquired : 15/02/19 17:07:26 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

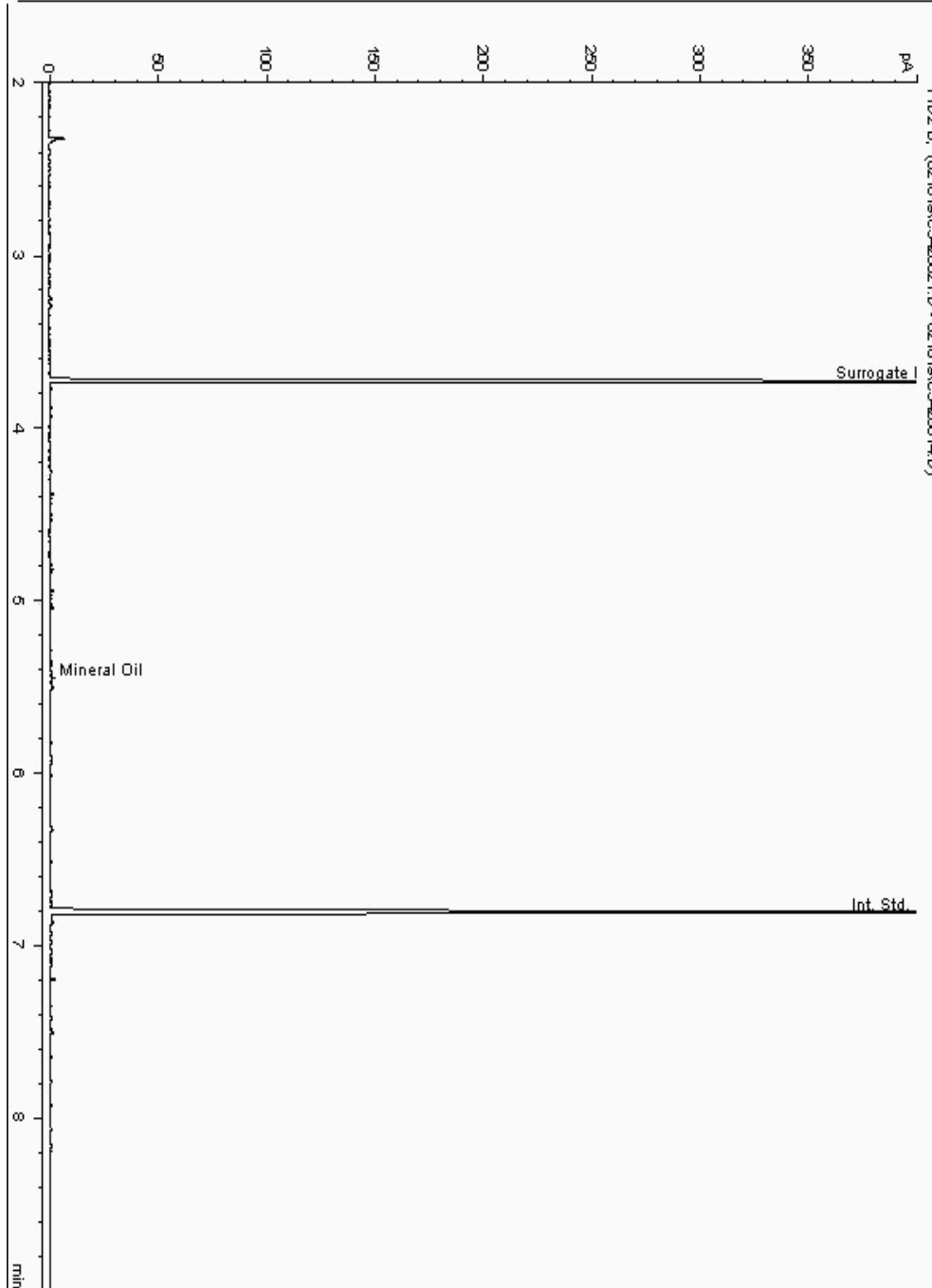
Analysis: Mineral Oil
19345986

Sample No :
Sample ID : BH207

19,345,986Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110212-
Date Acquired : 18/02/2019 17:23:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

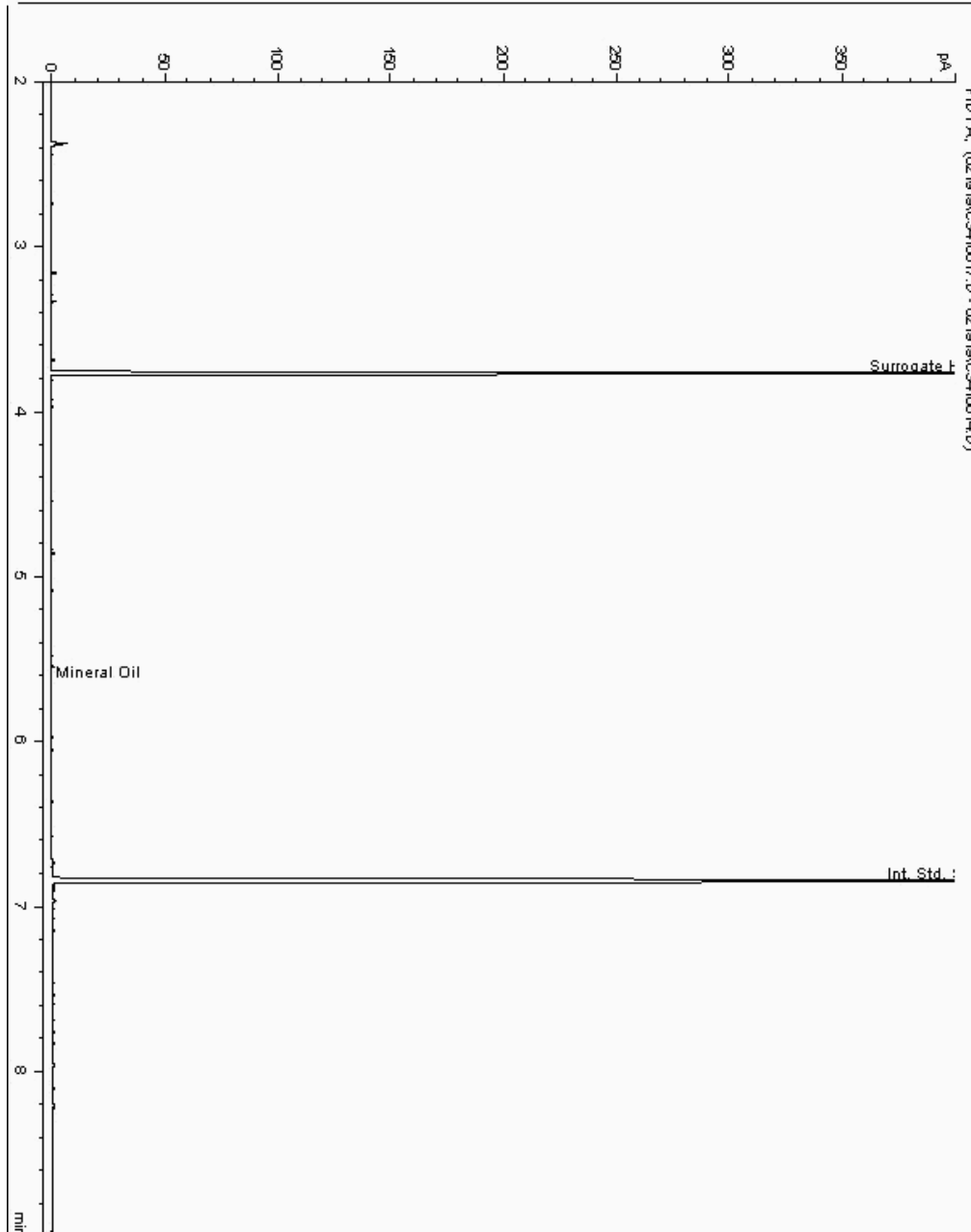
Analysis: Mineral Oil
19346000

Sample No :
Sample ID : BH208

19,346,000Depth :7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110982-
Date Acquired : 19/02/19 11:50:12 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

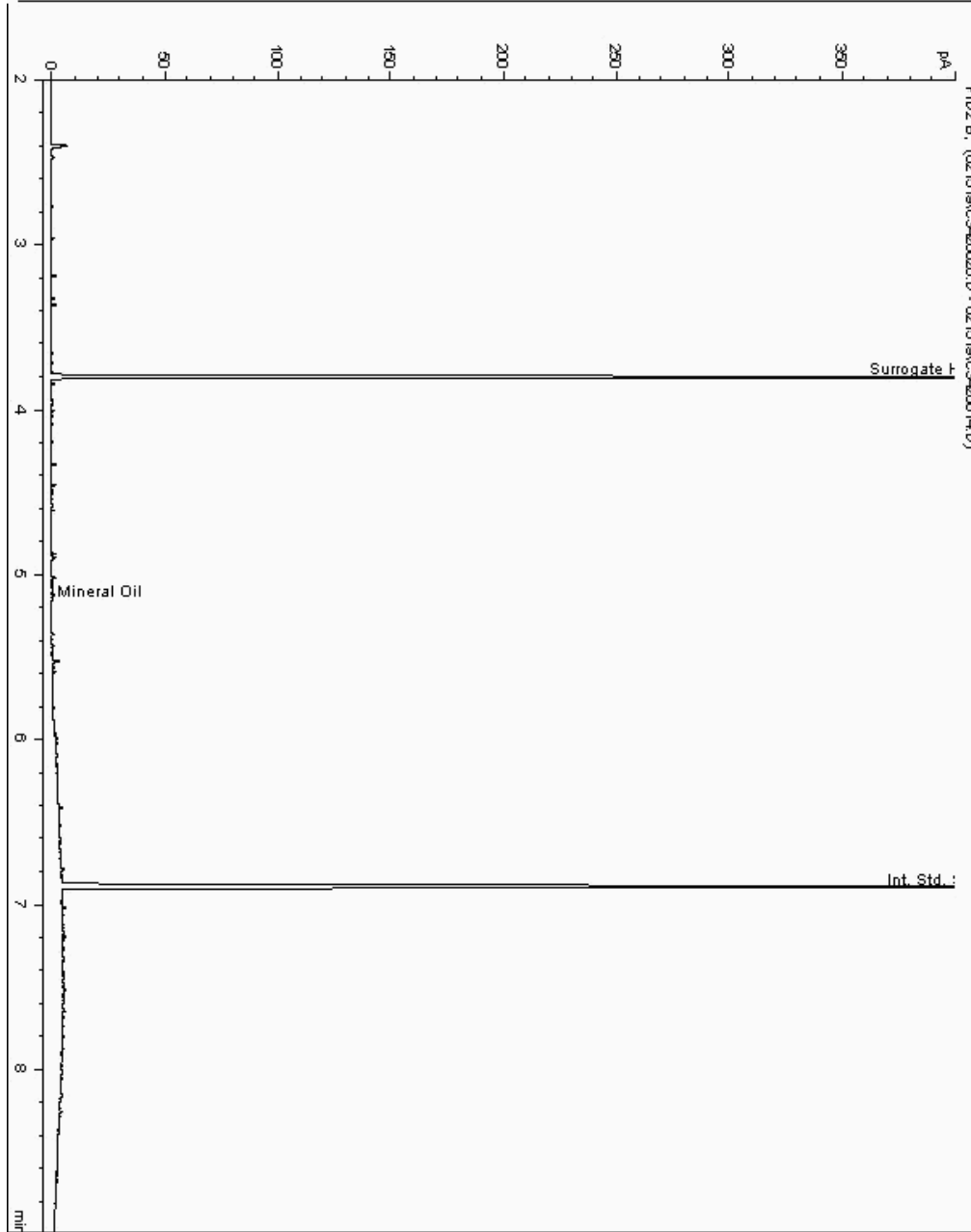
Analysis: Mineral Oil
19346275

Sample No :
Sample ID : BH206

19,346,275 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109859-
Date Acquired : 15/02/19 16:14:56 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

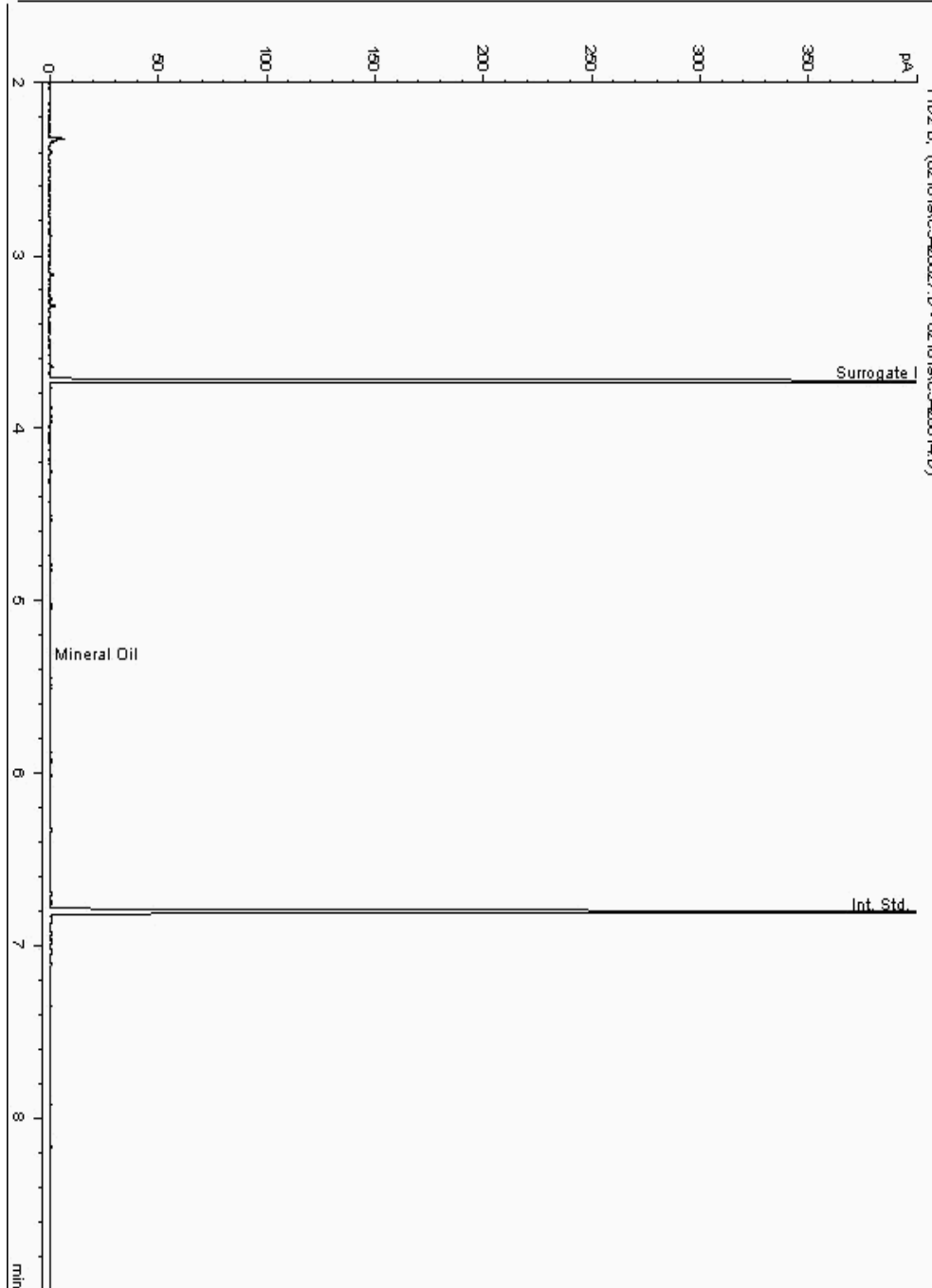
Analysis: Mineral Oil
19346277

Sample No :
Sample ID : BH207

19,346,277Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110380-
Date Acquired : 18/02/2019 19:19:35 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

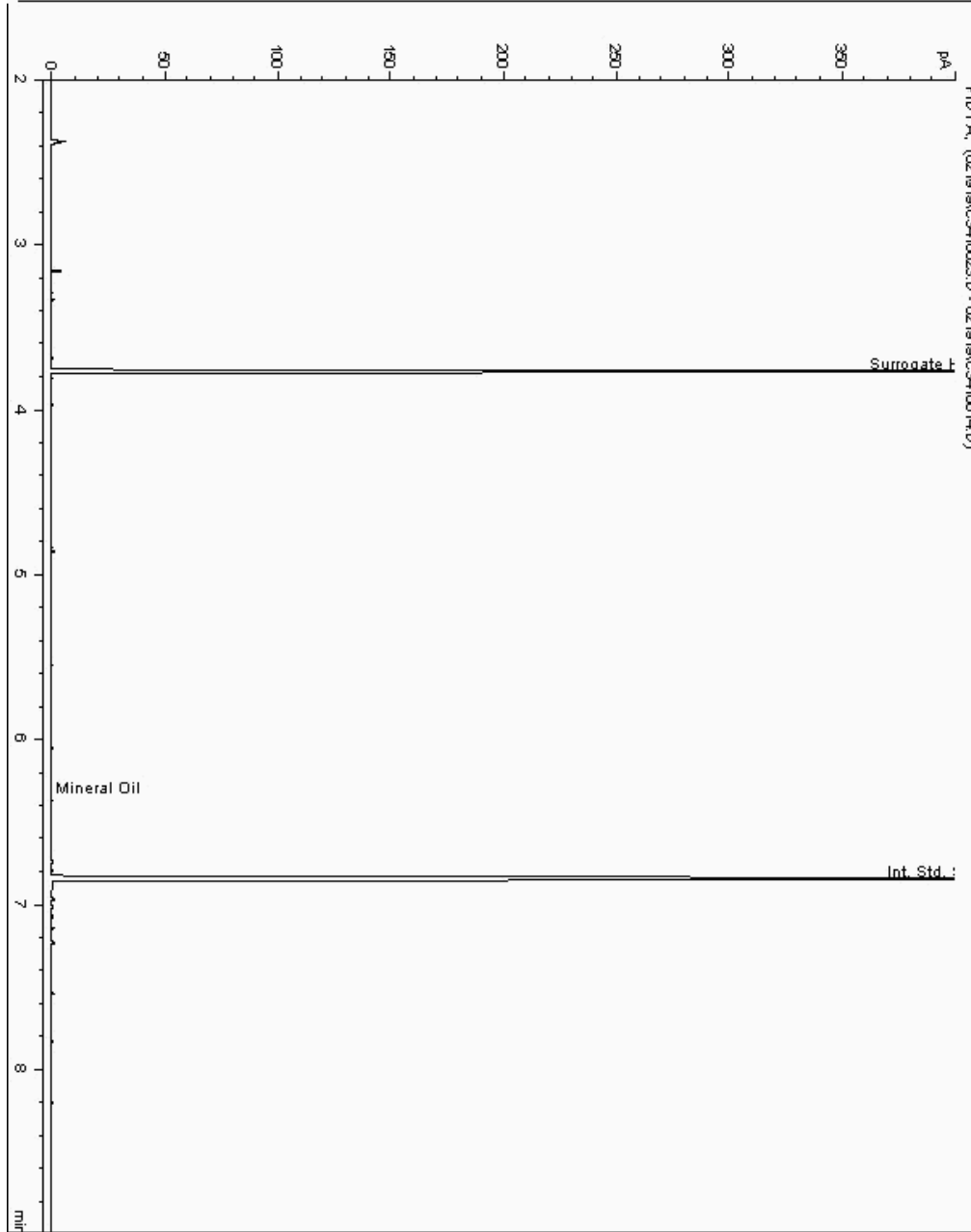
Analysis: Mineral Oil
19346429

Sample No :
Sample ID : BH206

19,346,429 Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109644-
Date Acquired : 19/02/19 13:35:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

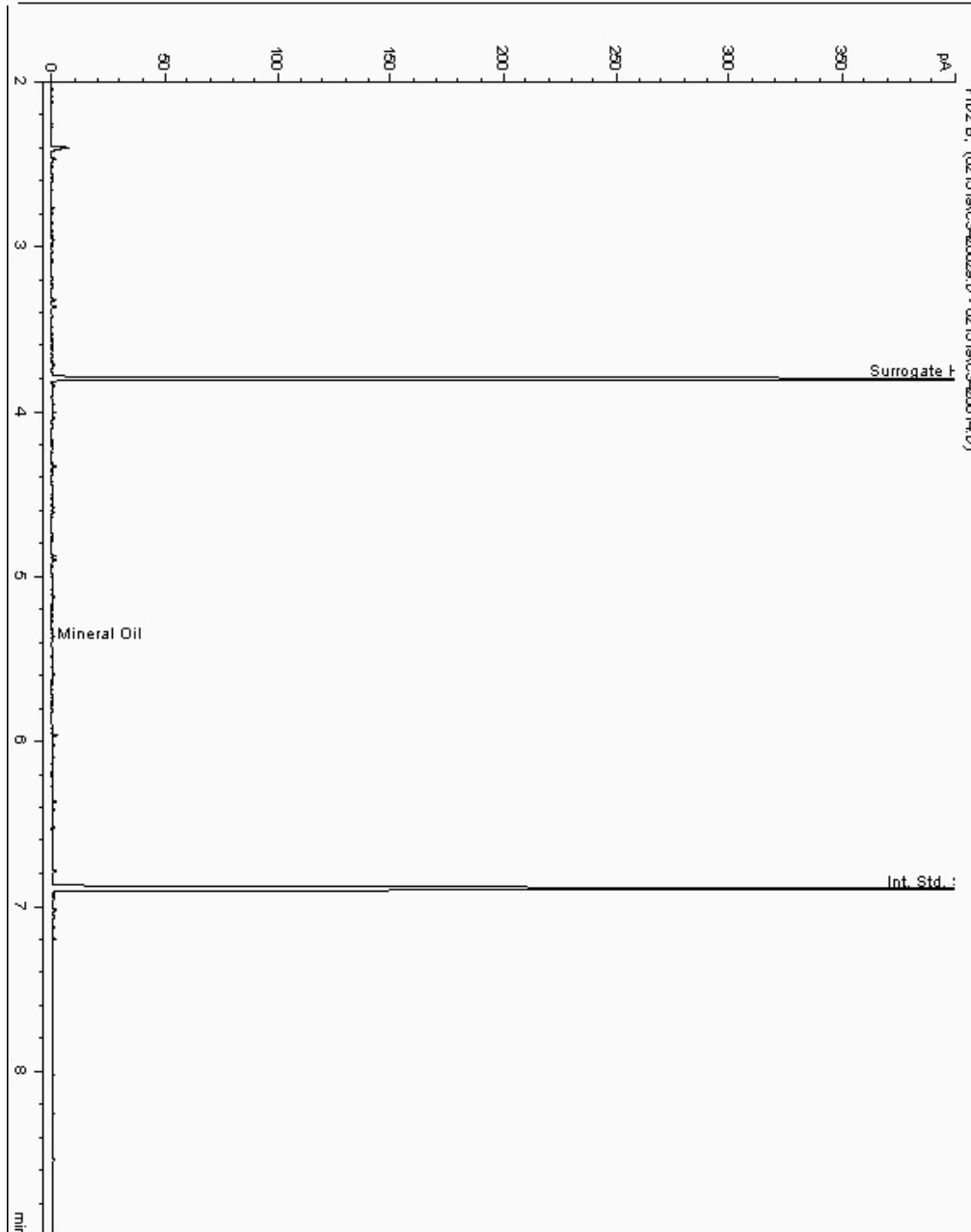
Analysis: Mineral Oil
19346473

Sample No :
Sample ID : BH208

19,346,473 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111139-
Date Acquired : 15/02/19 18:52:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

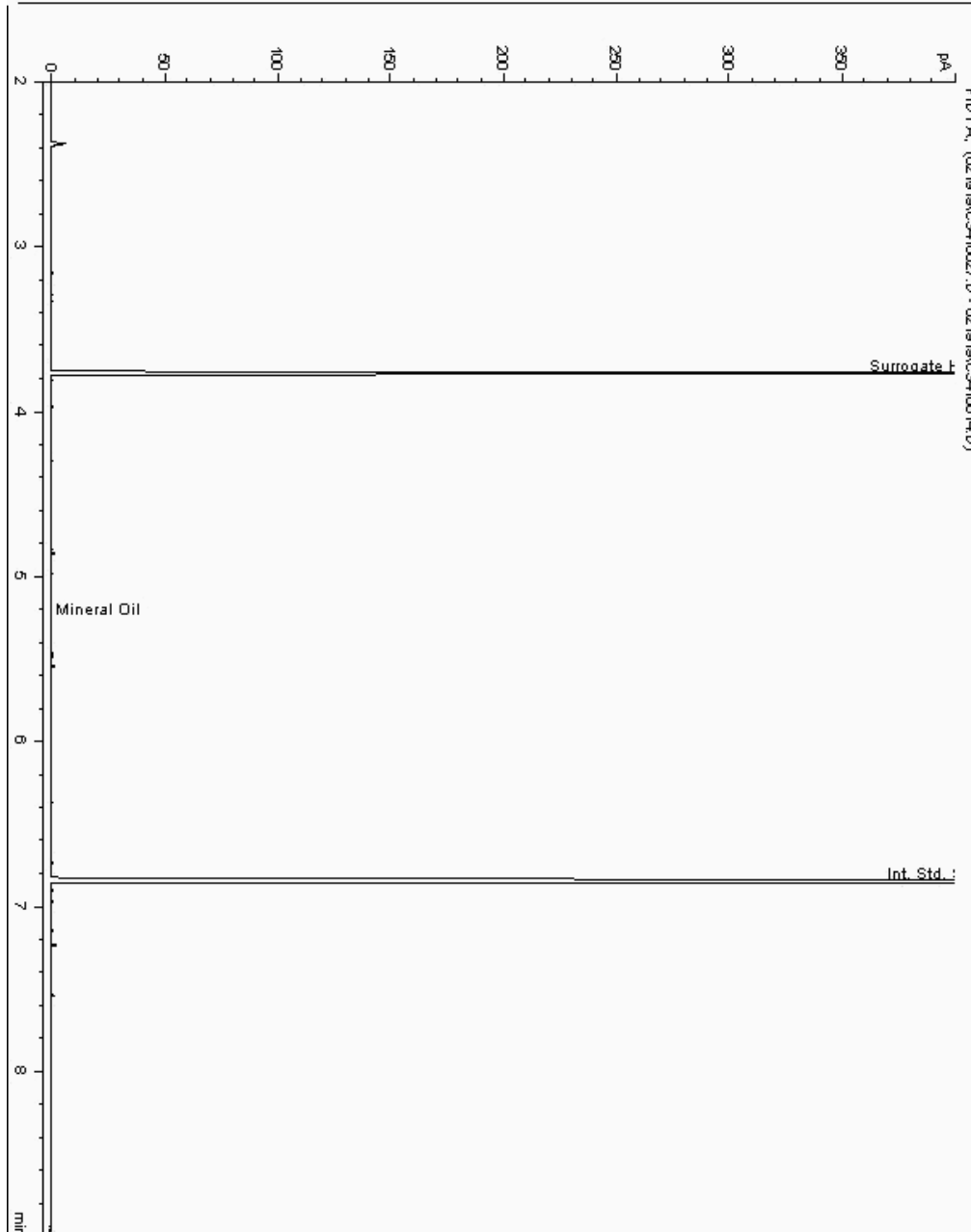
Analysis: Mineral Oil
19346521

Sample No :
Sample ID : BH206

19,346,521 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109581-
Date Acquired : 19/02/19 14:49:01 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

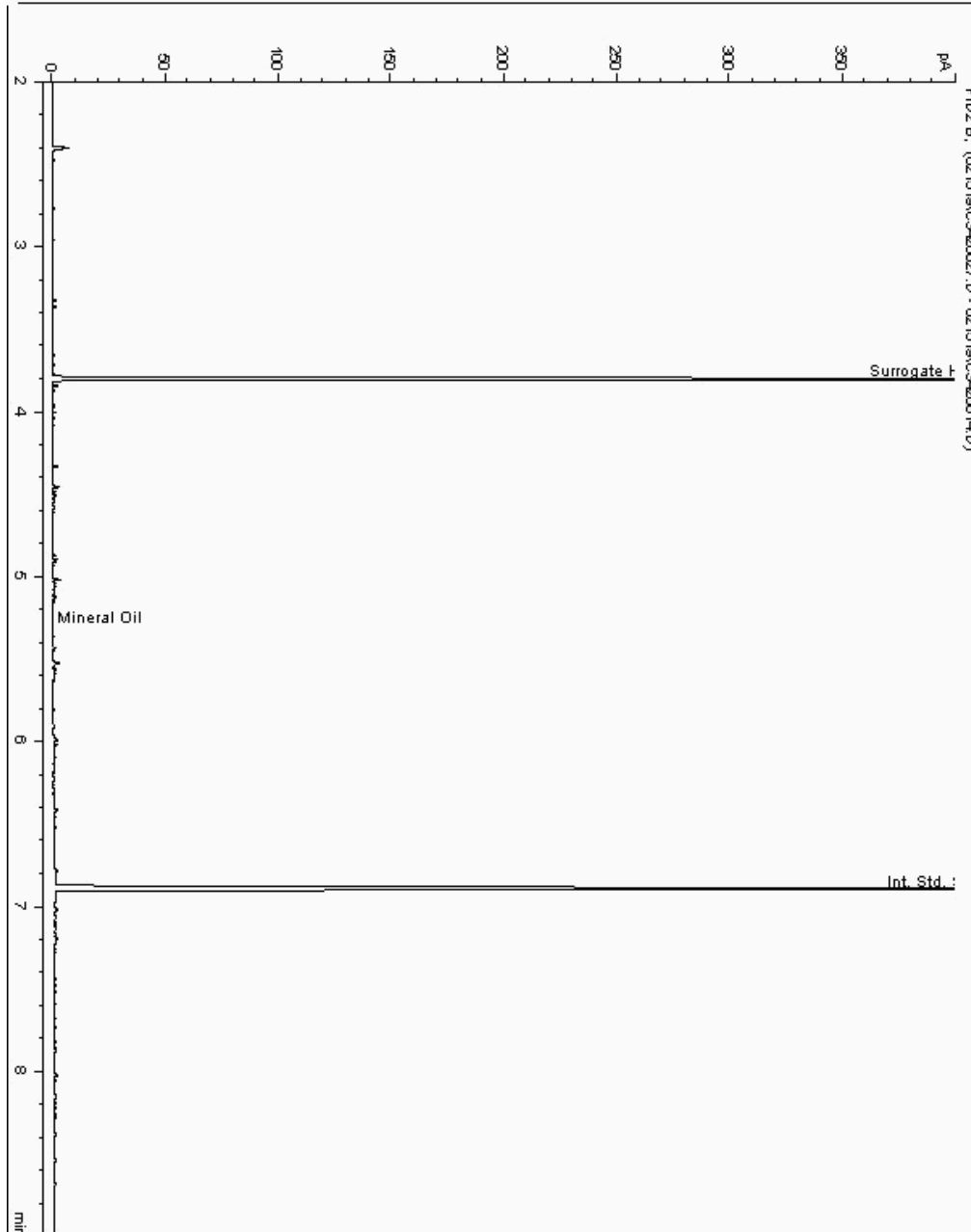
Analysis: Mineral Oil
19346620

Sample No :
Sample ID : BH220

19,346,620Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111551-
Date Acquired : 15/02/19 18:11:54 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

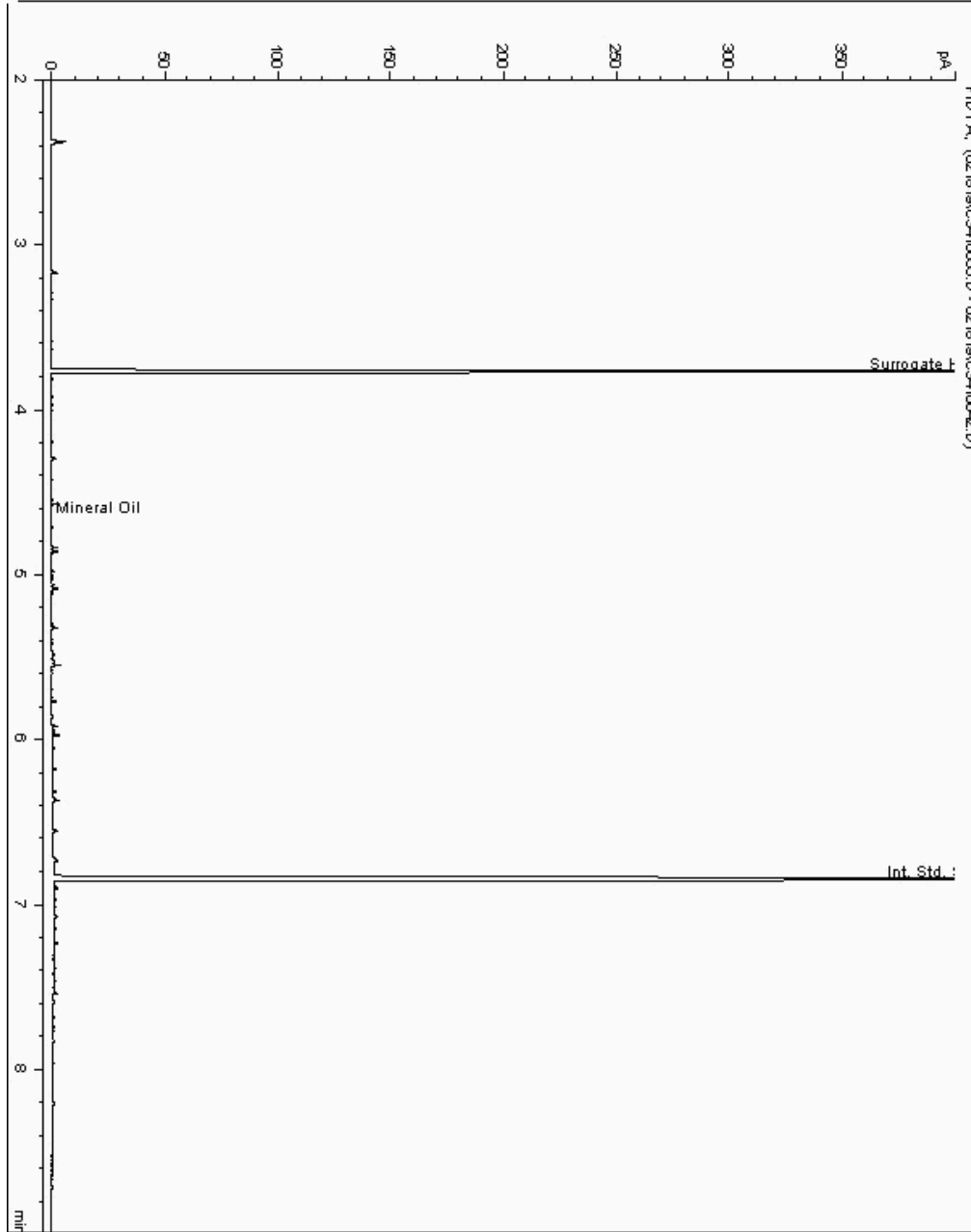
Analysis: Mineral Oil
19346663

Sample No :
Sample ID : BH208

19,346,663 Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110666-
Date Acquired : 19/02/19 00:30:43 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

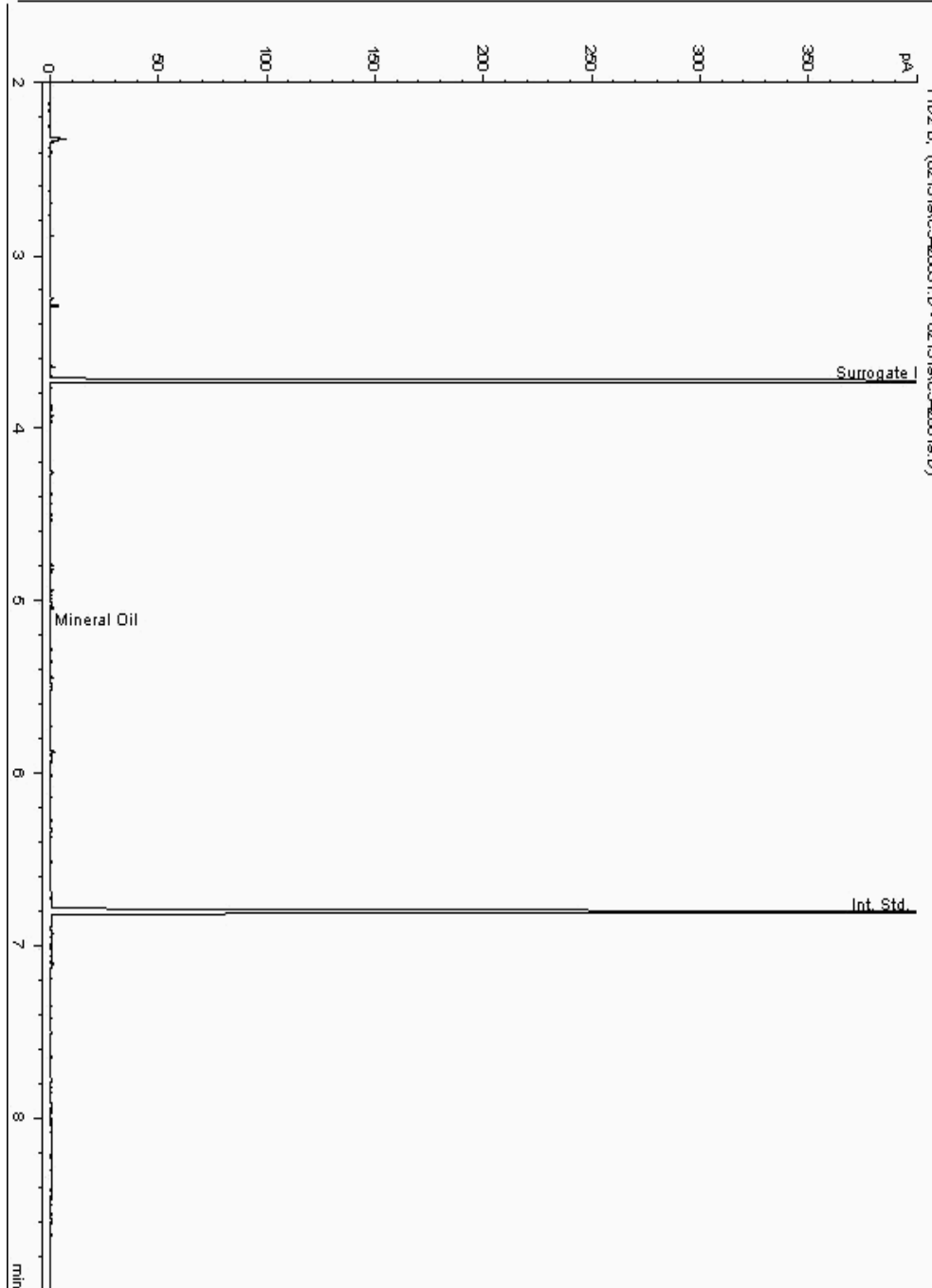
Analysis: Mineral Oil
19346669

Sample No :
Sample ID : BH208

19,346,669 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111091-
Date Acquired : 15/02/2019 16:28:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

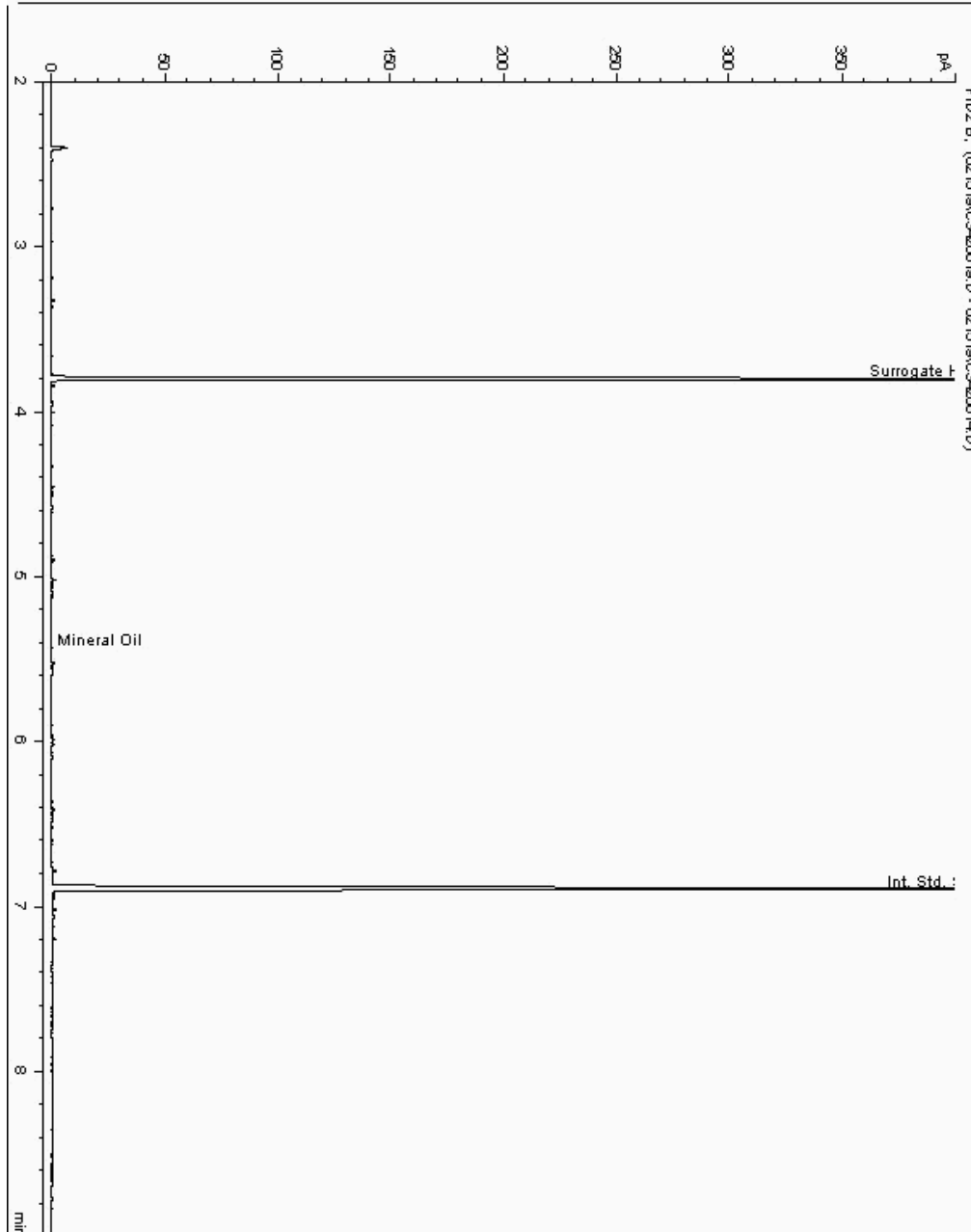
Analysis: Mineral Oil
19346711

Sample No :
Sample ID : BH221

19,346,711 Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111384-
Date Acquired : 15/02/19 15:54:54 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

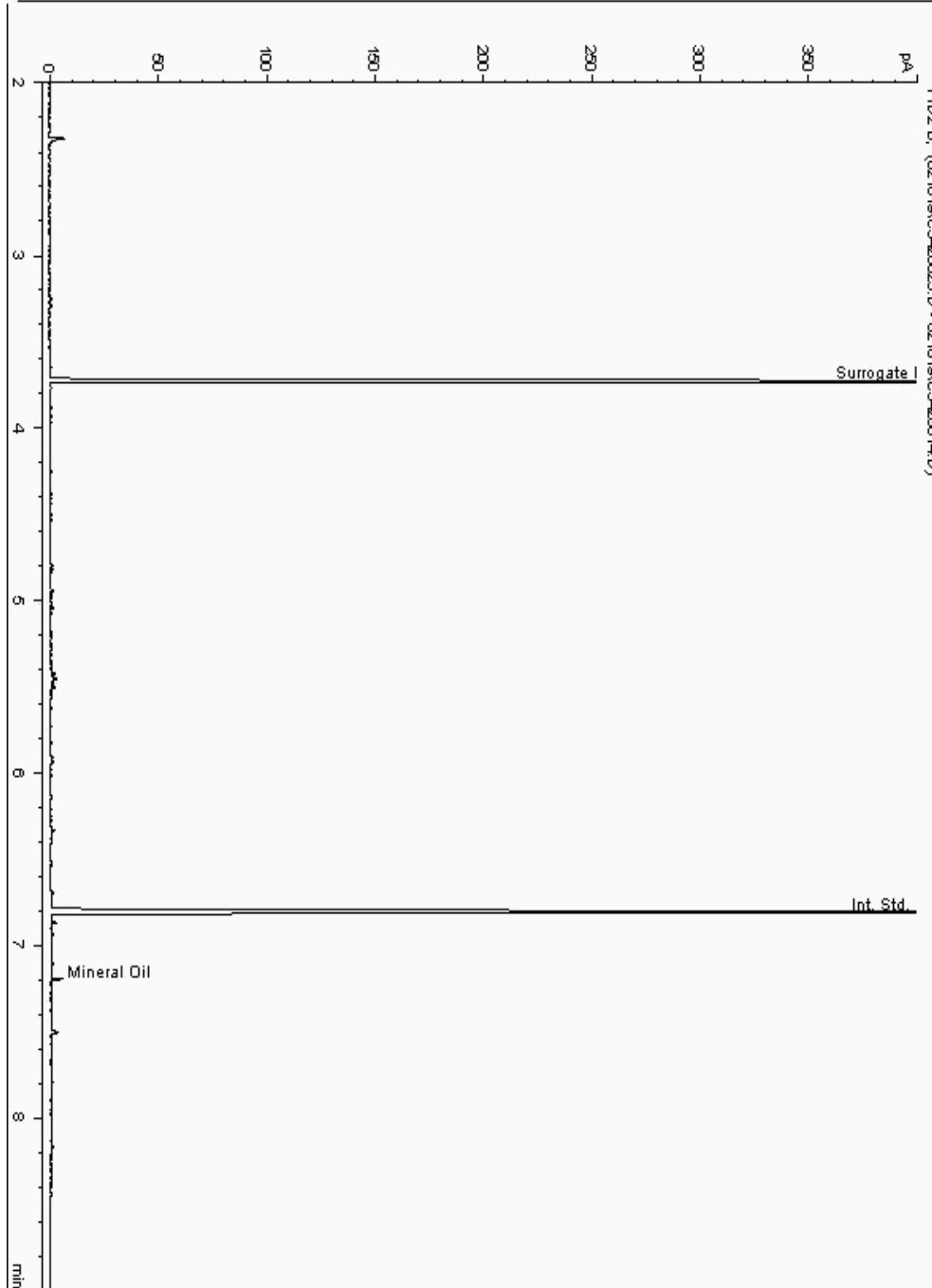
Analysis: Mineral Oil
19346760

Sample No :
Sample ID : BH206

19,346,760Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109556-
Date Acquired : 18/02/2019 18:46:40 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

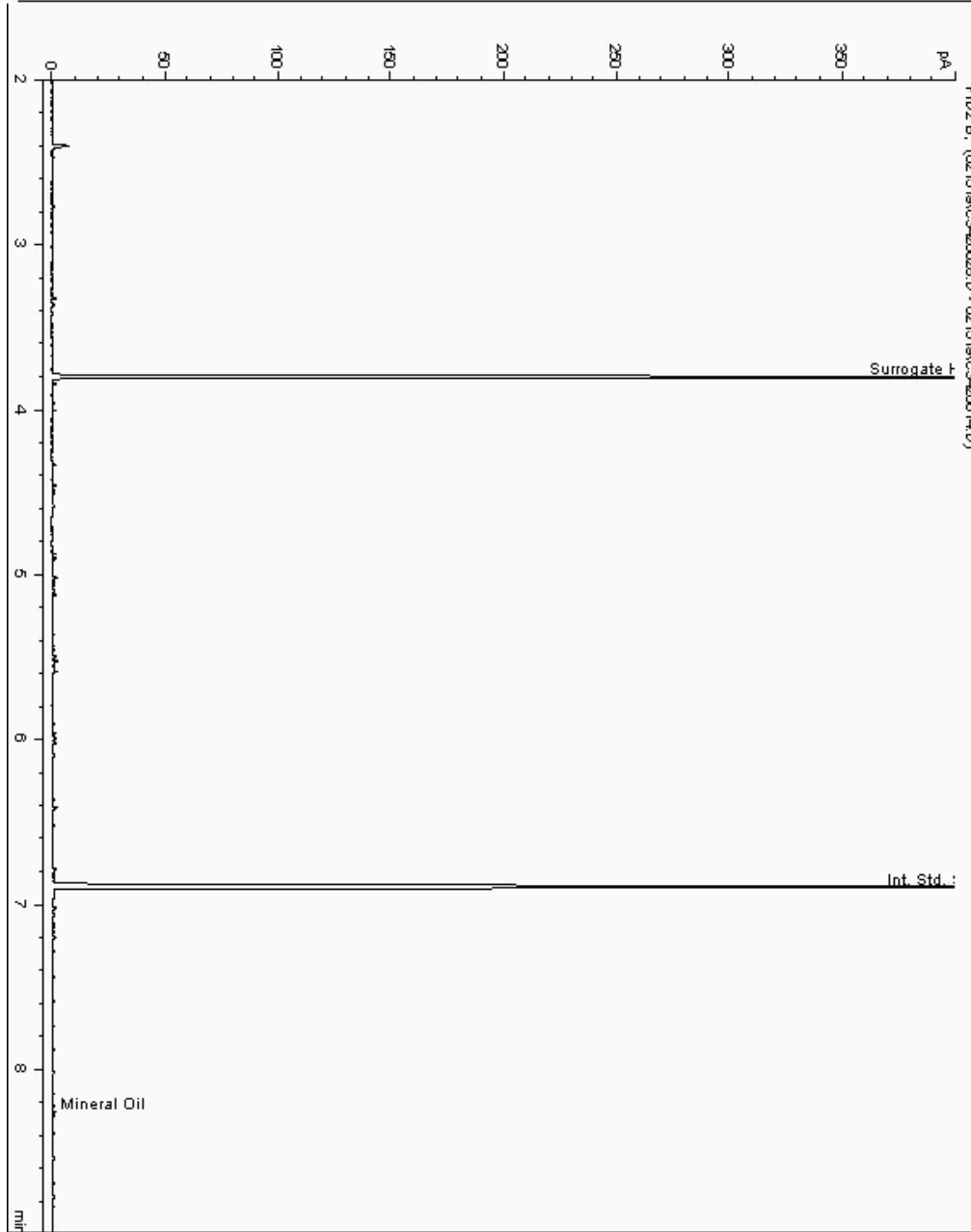
Analysis: Mineral Oil
19346763

Sample No :
Sample ID : BH220

19,346,763Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111630-
Date Acquired : 15/02/19 18:32:02 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

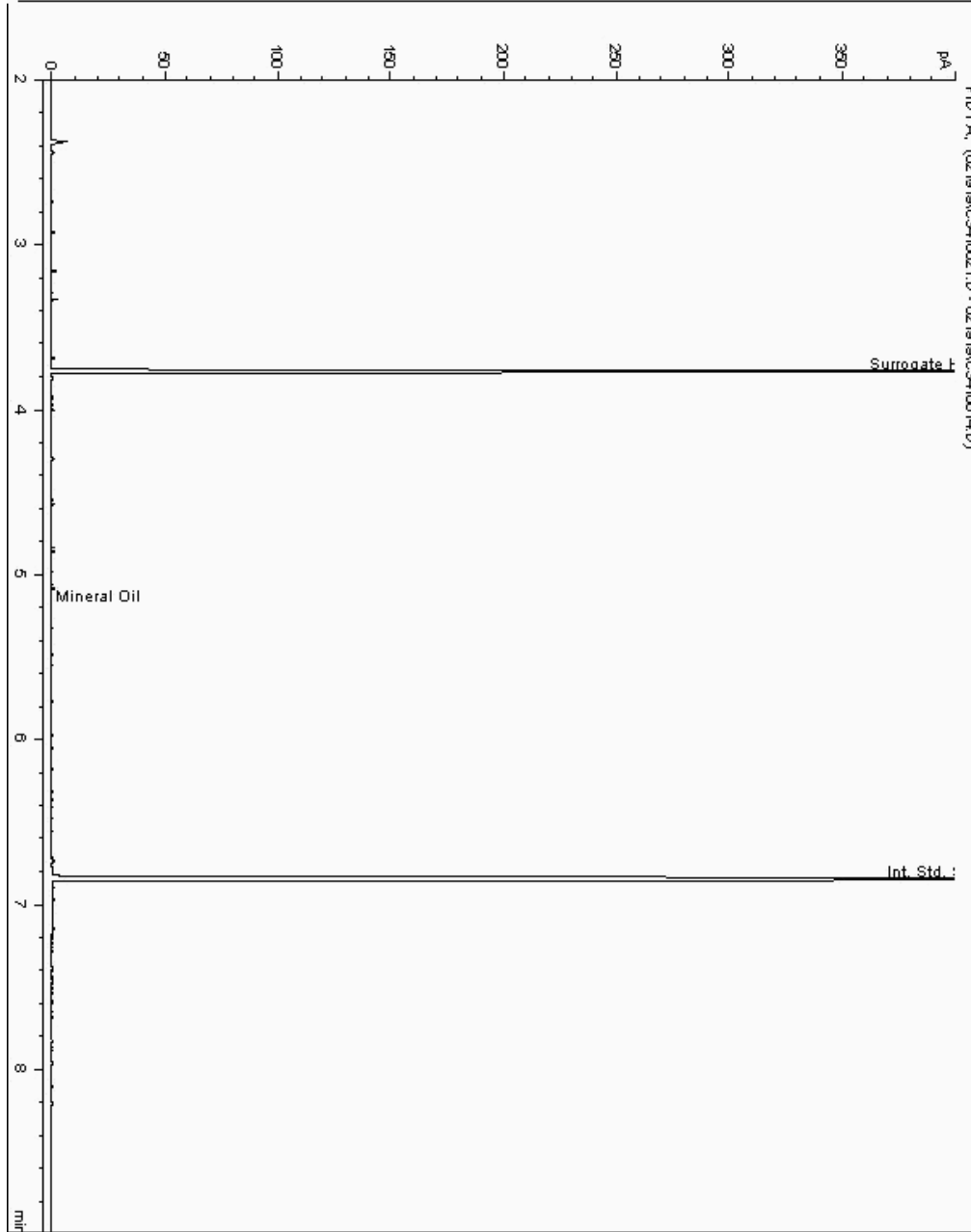
Analysis: Mineral Oil
19346778

Sample No :
Sample ID : BH206

19,346,778 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109712-
Date Acquired : 19/02/19 13:03:16 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

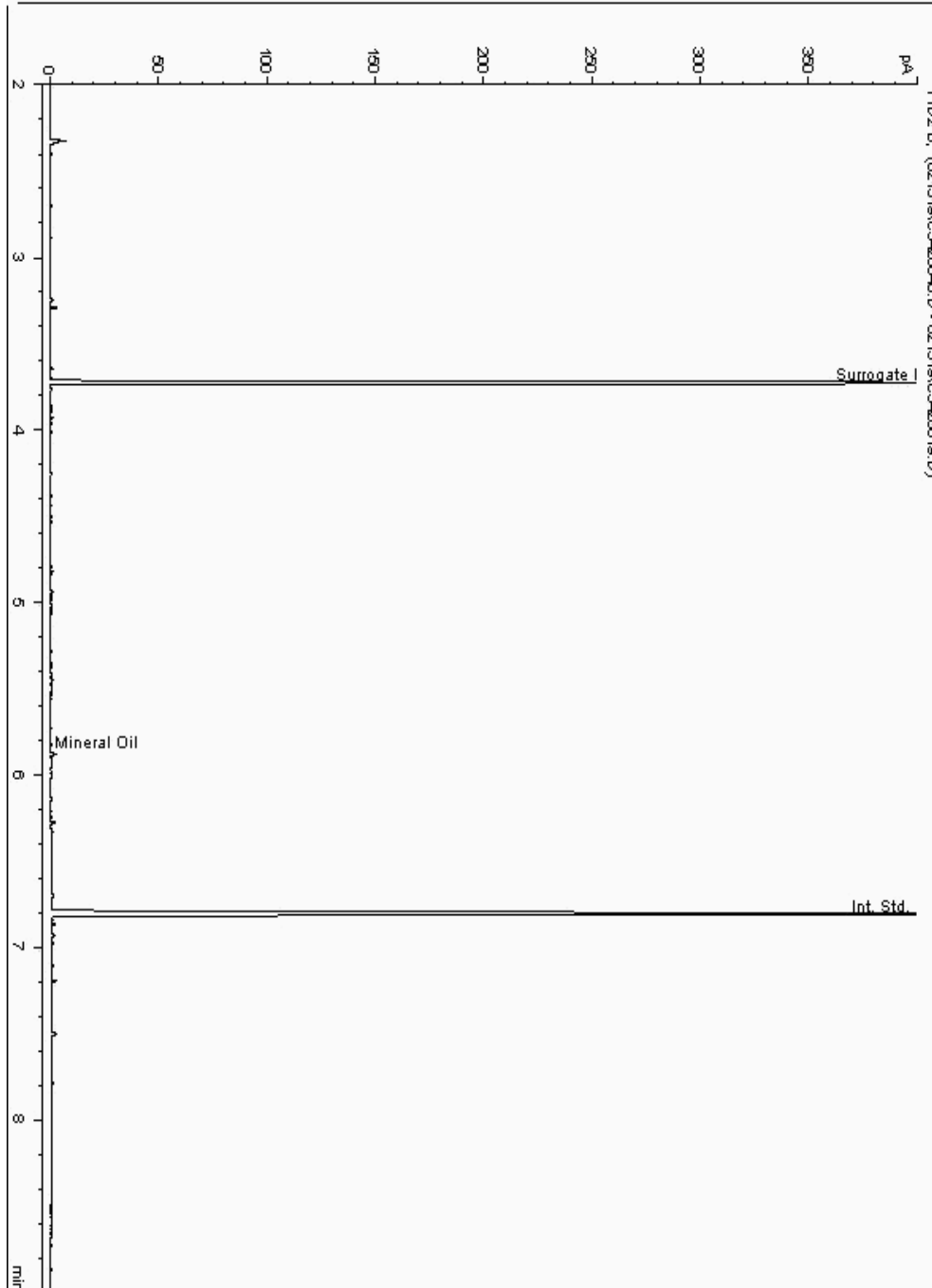
Analysis: Mineral Oil
19346819

Sample No :
Sample ID : BH221

19,346,819 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111251-
Date Acquired : 15/02/2019 19:34:33 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

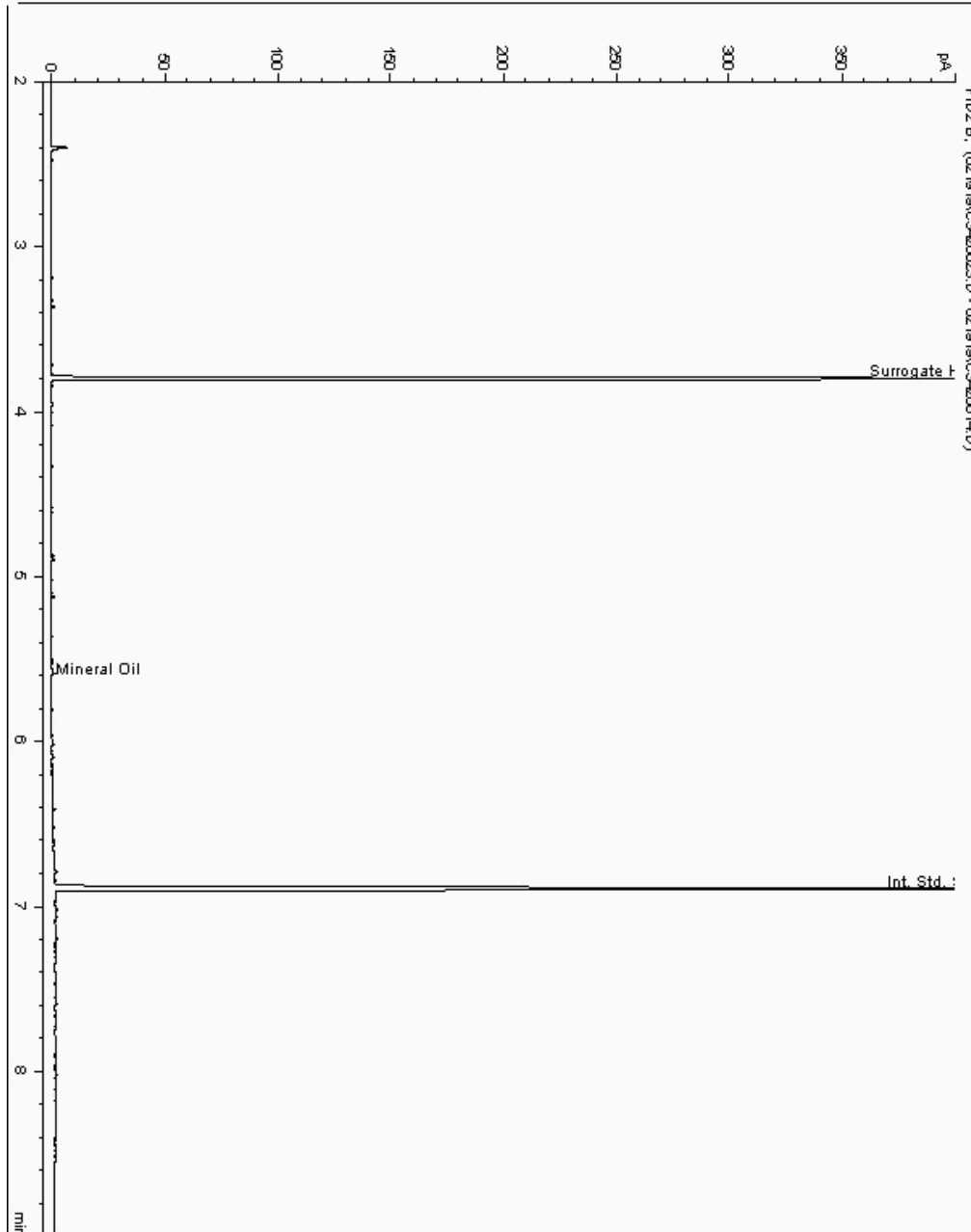
Analysis: Mineral Oil
19346844

Sample No :
Sample ID : BH208

19,346,844Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110803-
Date Acquired : 19/02/19 13:35:55 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

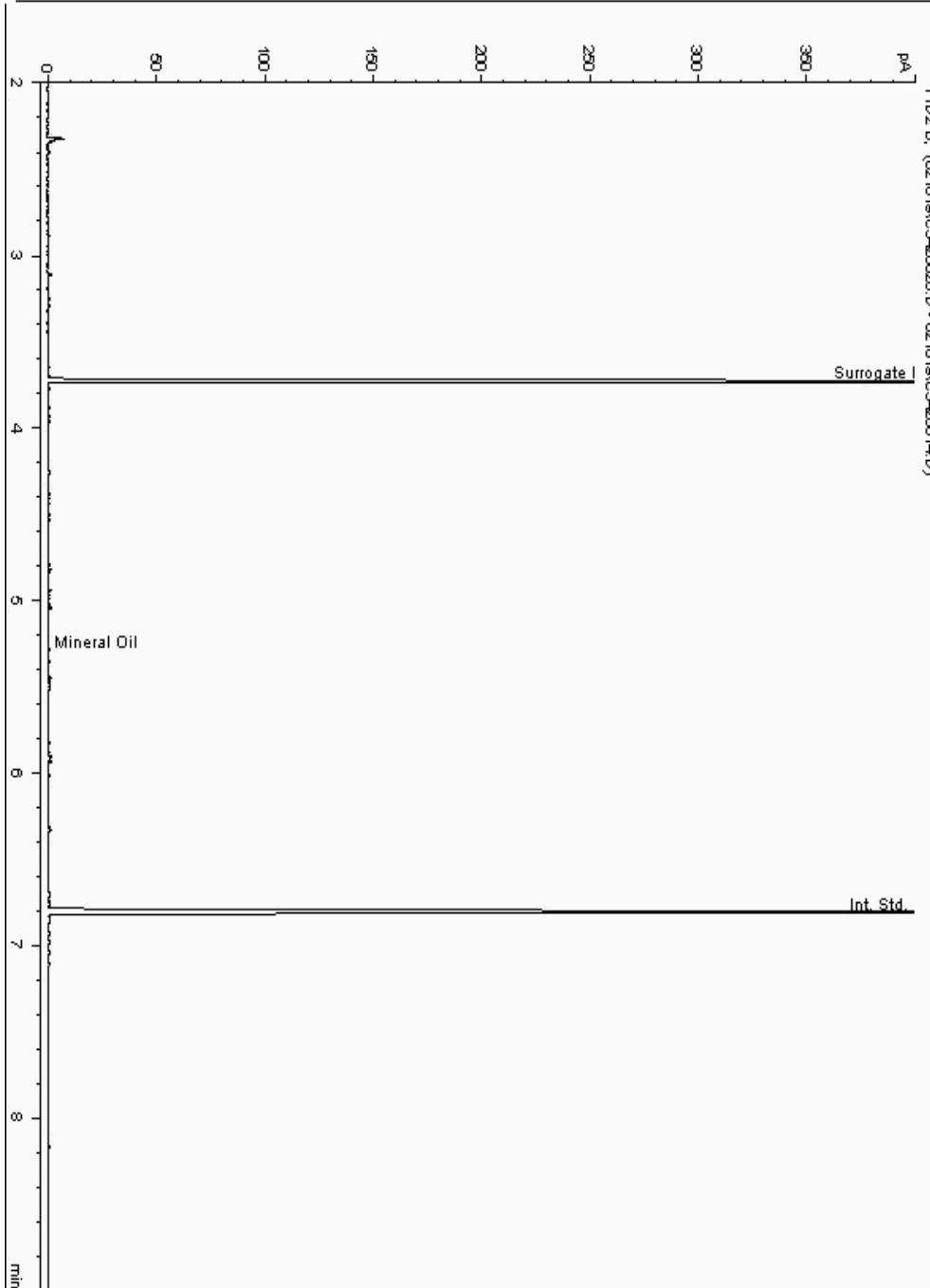
Analysis: Mineral Oil
19346877

Sample No :
Sample ID : BH207

19,346,877Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110621-
Date Acquired : 18/02/2019 17:02:12 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

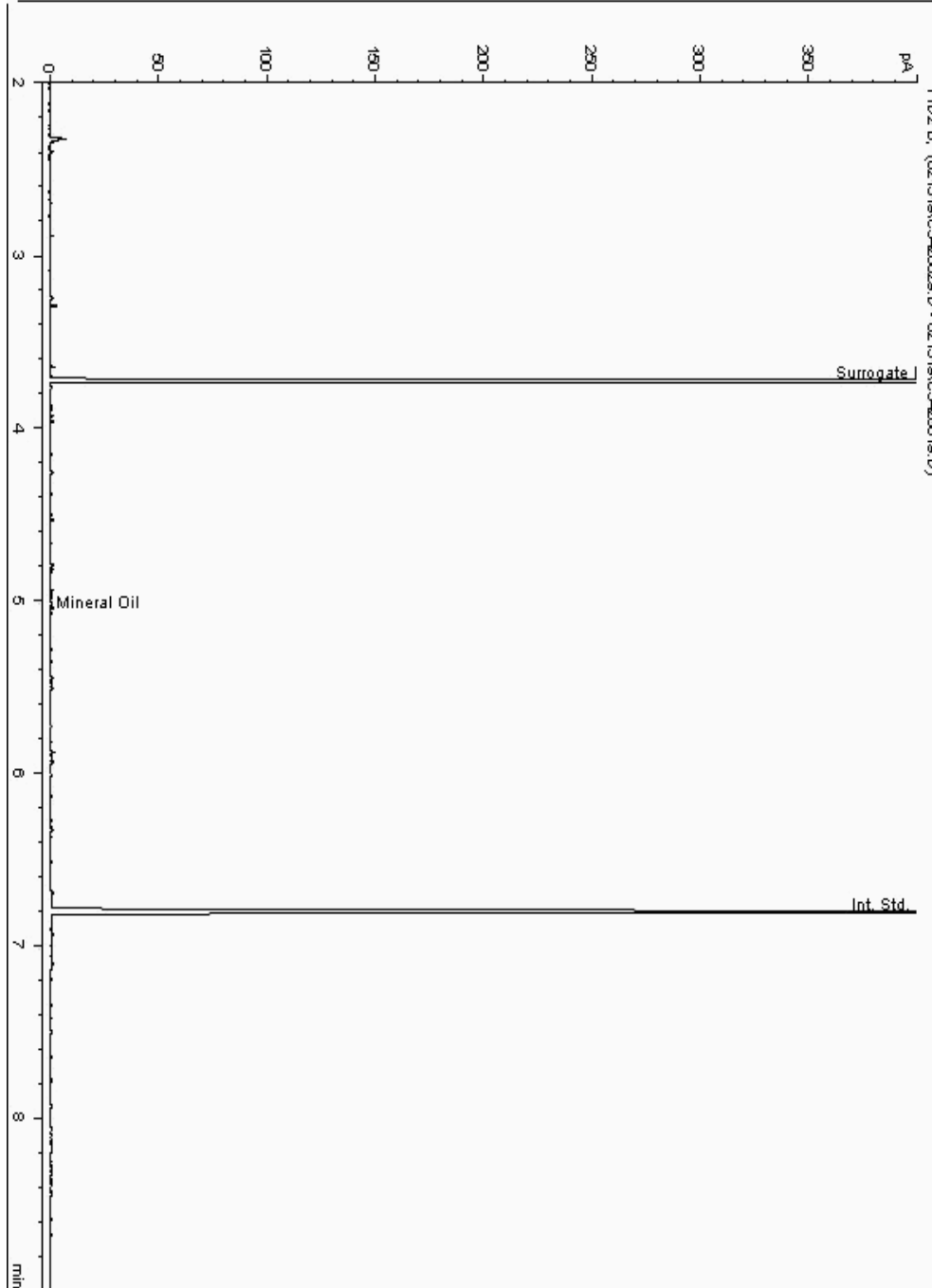
Analysis: Mineral Oil
19346952

Sample No :
Sample ID : BH208

19,346,952Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111225-
Date Acquired : 15/02/2019 15:47:21 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

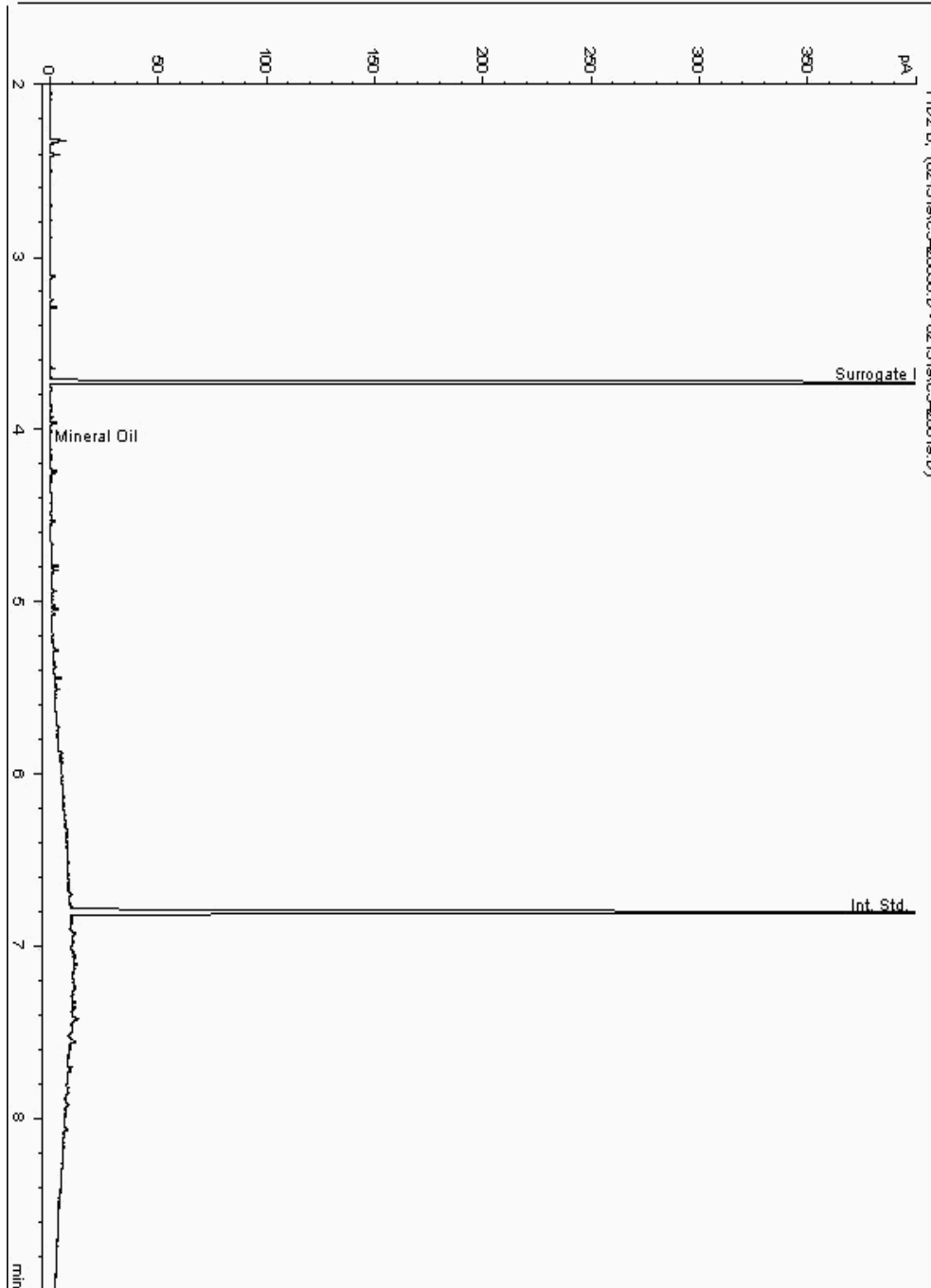
Analysis: Mineral Oil
19347003

Sample No :
Sample ID : BH220

19,347,003Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111576-
Date Acquired : 15/02/2019 18:11:42 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

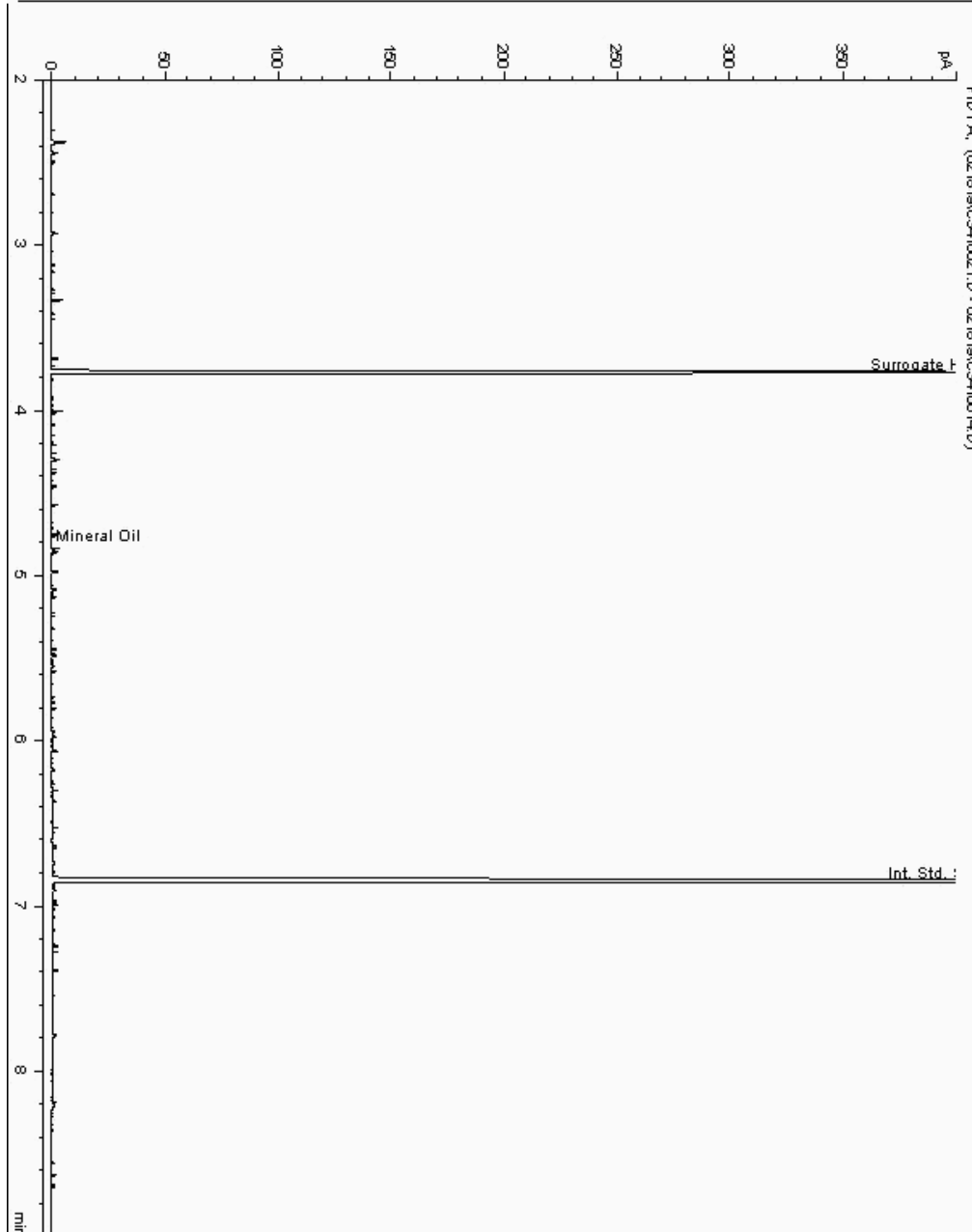
Analysis: Mineral Oil
19347029

Sample No :
Sample ID : BH207

19,347,029 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110529-
Date Acquired : 18/02/19 13:44:17 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

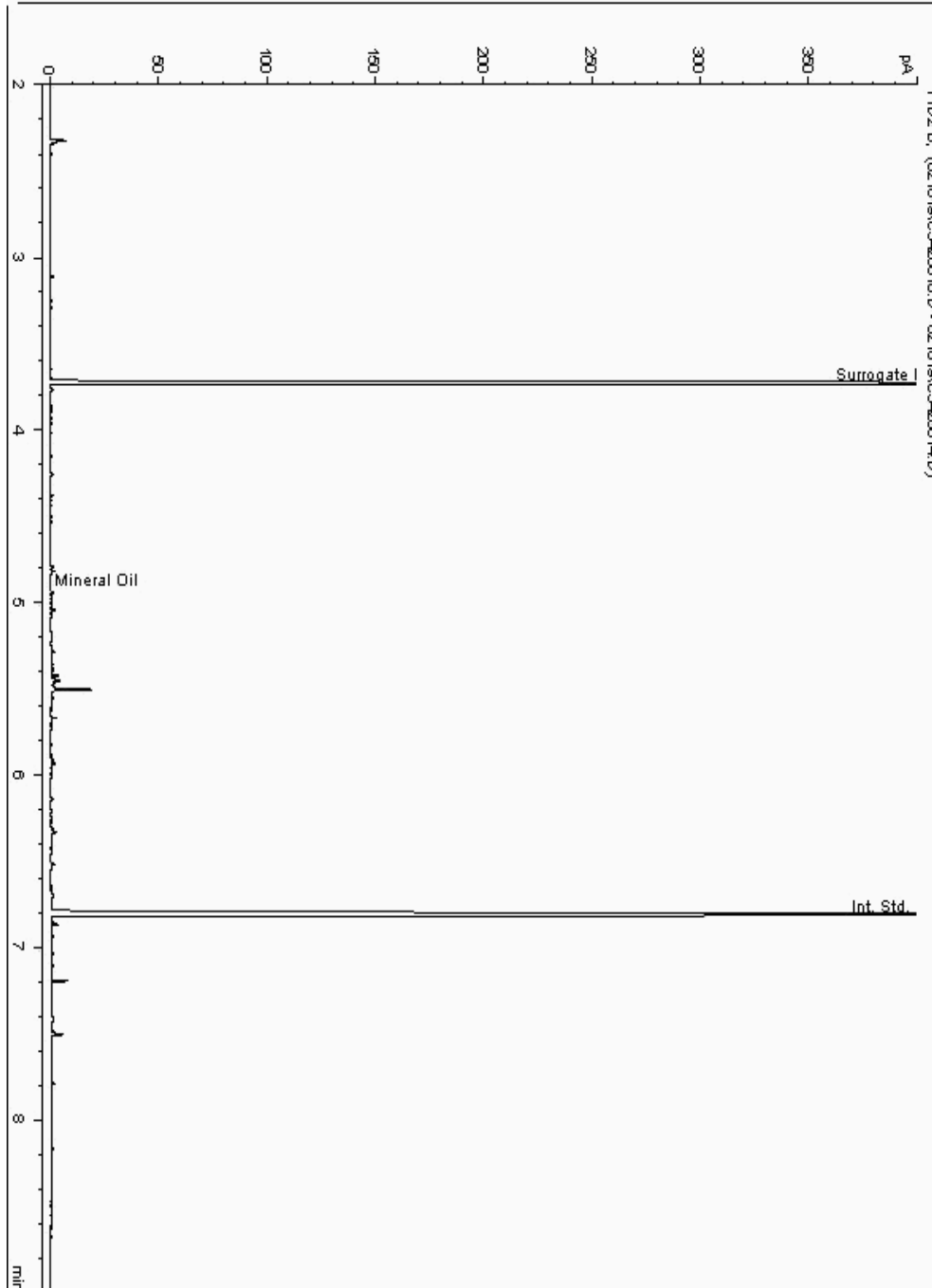
Analysis: Mineral Oil
19347086

Sample No :
Sample ID : BH207

19,347,086Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112813-
Date Acquired : 18/02/2019 16:28:56 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

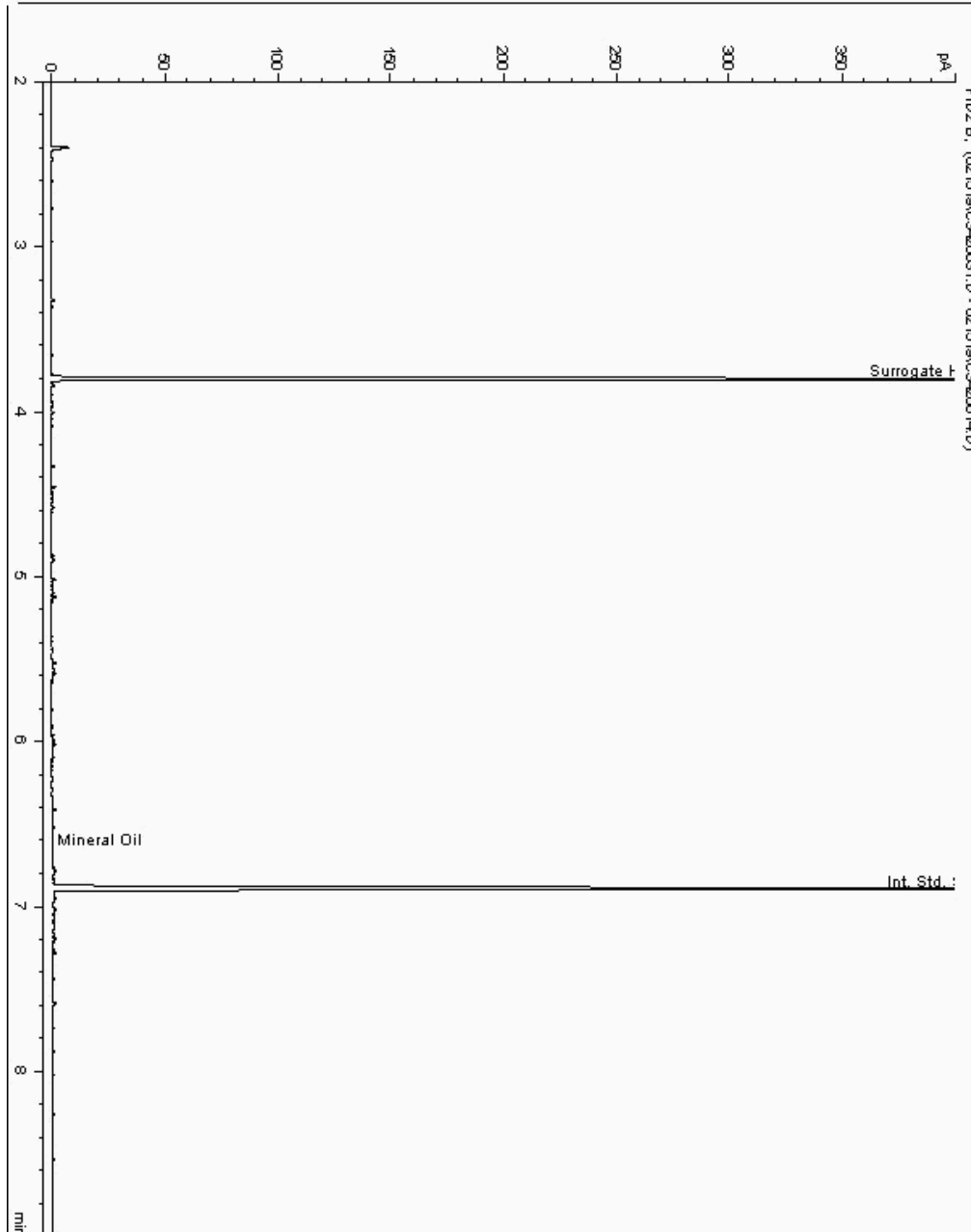
Analysis: Mineral Oil
19347173

Sample No :
Sample ID : BH221

19,347,173 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111299-
Date Acquired : 15/02/19 19:32:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

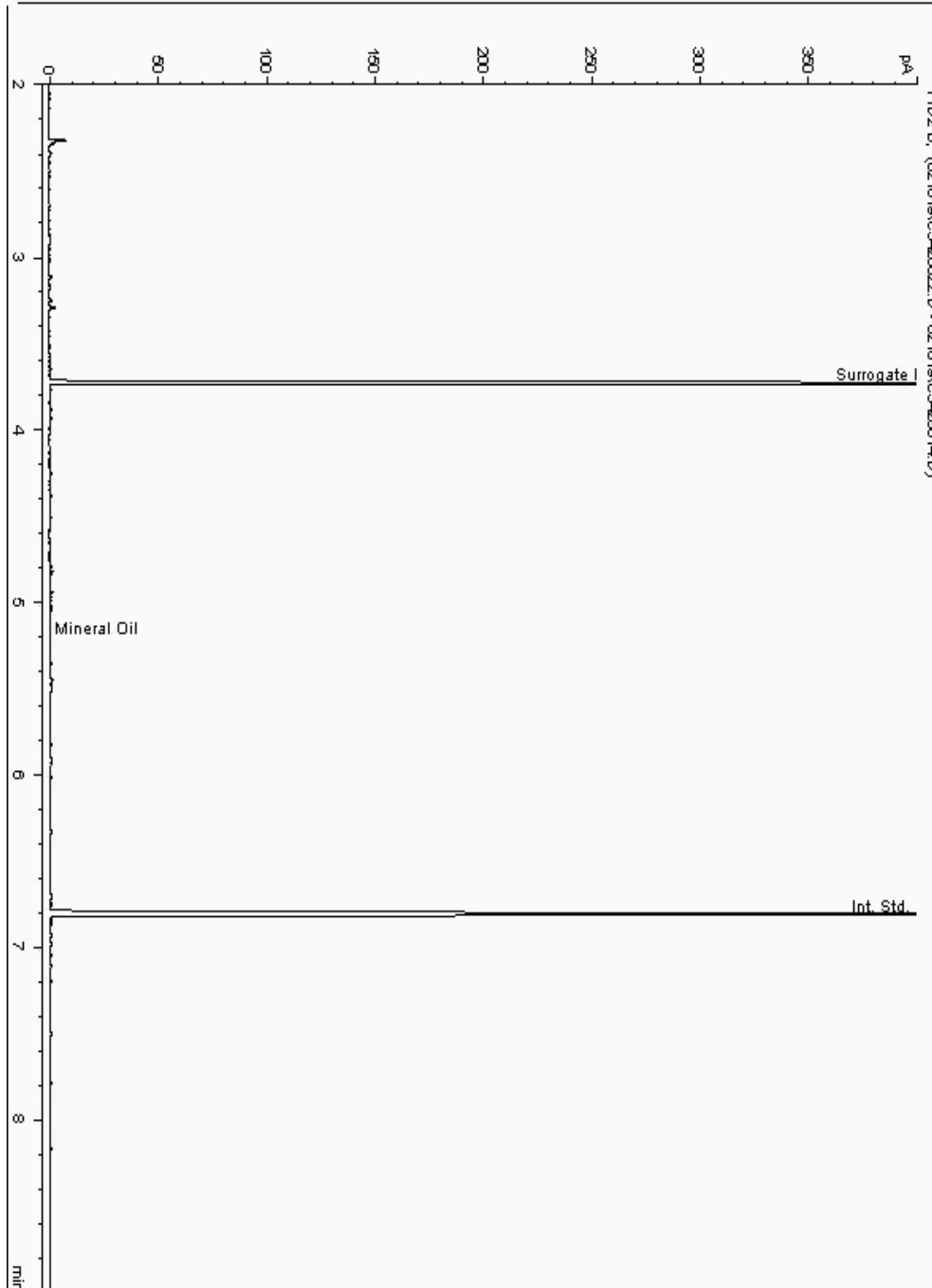
Analysis: Mineral Oil
19347313

Sample No :
Sample ID : BH208

19,347,313Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110877-
Date Acquired : 18/02/2019 17:44:16 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

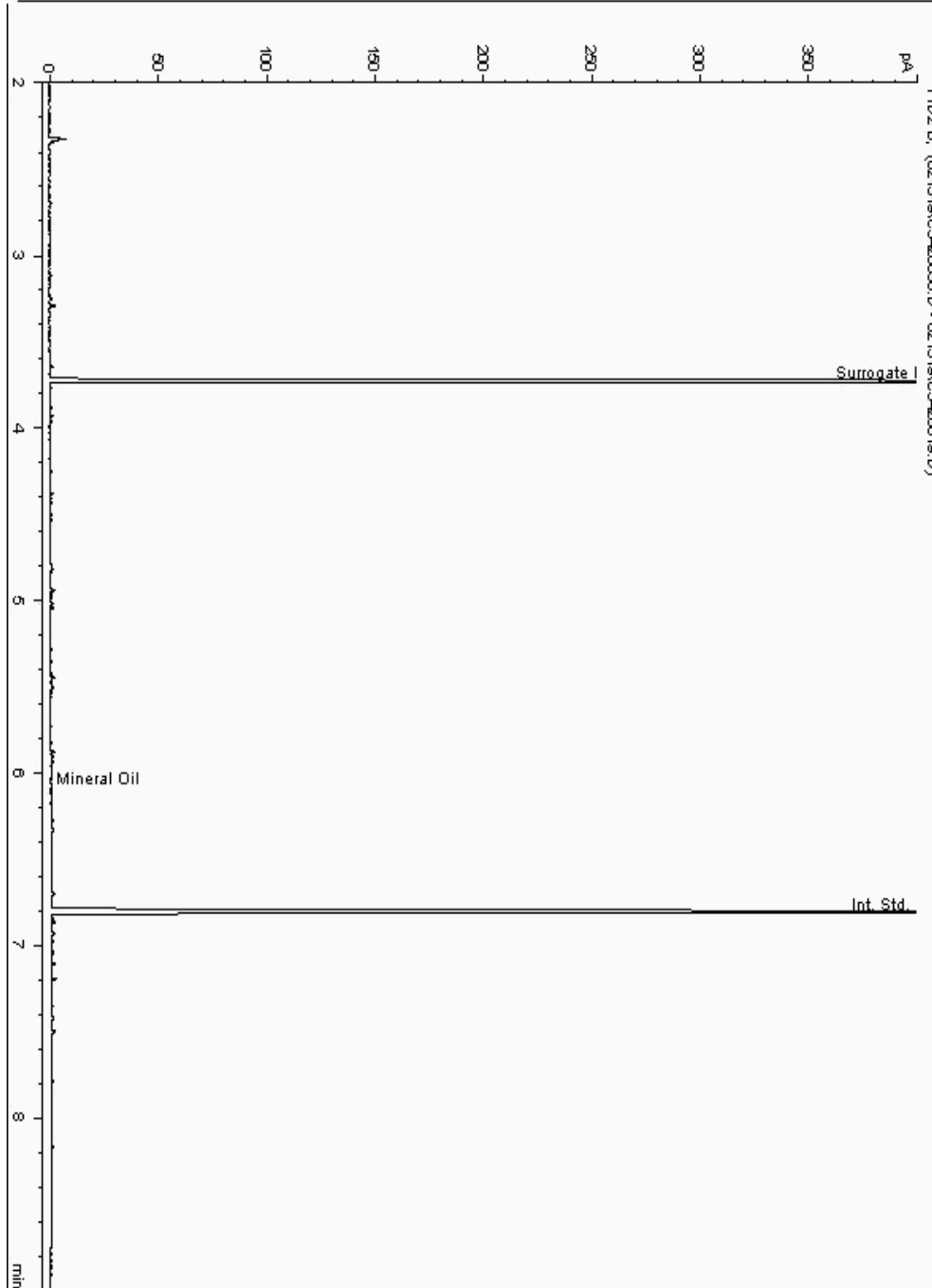
Analysis: Mineral Oil
19347345

Sample No :
Sample ID : BH207

19,347,345Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110284-
Date Acquired : 15/02/2019 16:07:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

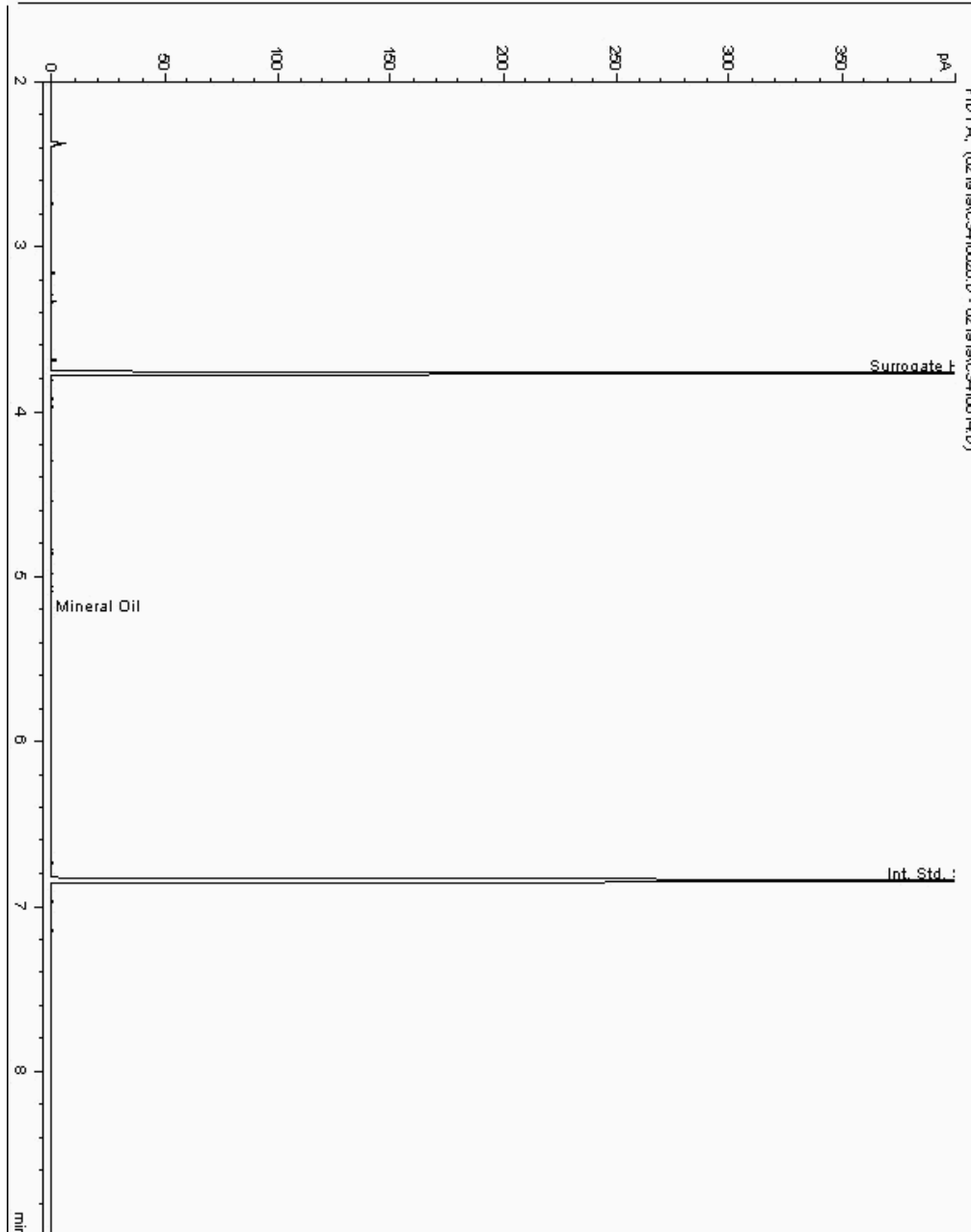
Analysis: Mineral Oil
19347348

Sample No :
Sample ID : BH207

19,347,348 Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110315-
Date Acquired : 19/02/19 14:28:28 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

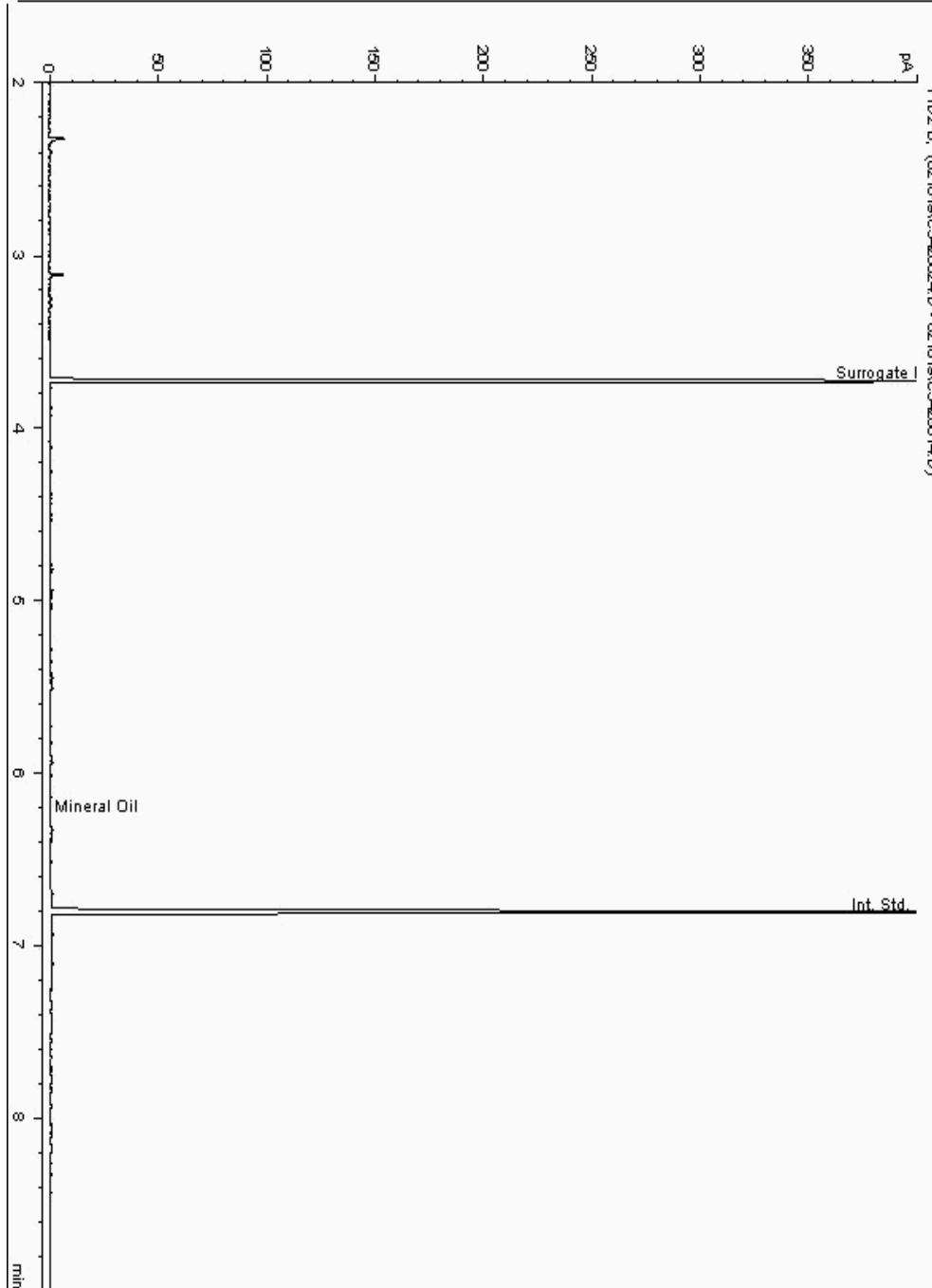
Analysis: Mineral Oil
19347438

Sample No :
Sample ID : BH208

19,347,438Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110711-
Date Acquired : 18/02/2019 18:25:44 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

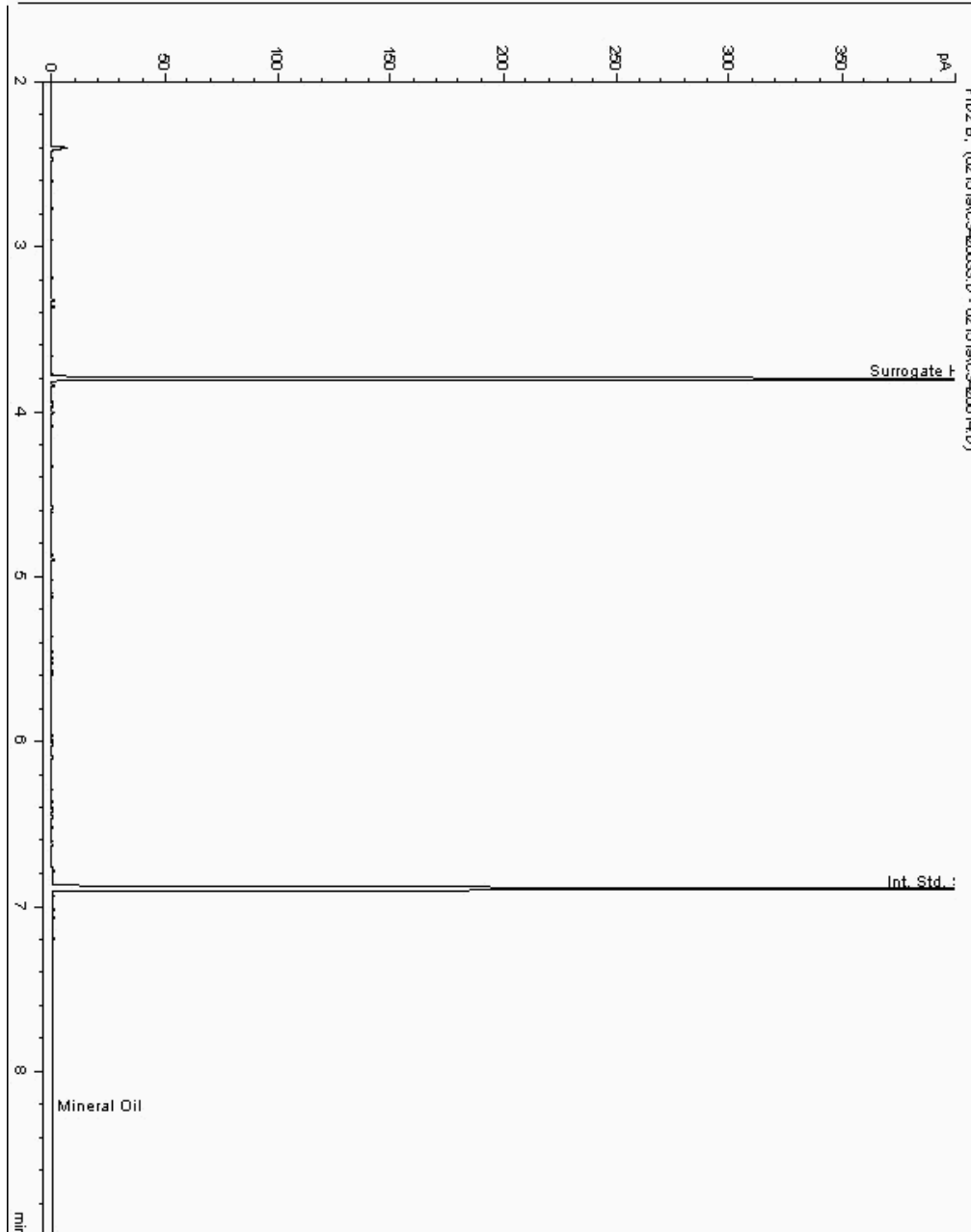
Analysis: Mineral Oil
19347511

Sample No :
Sample ID : BH207

19,347,511 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110464-
Date Acquired : 15/02/19 20:13:48 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

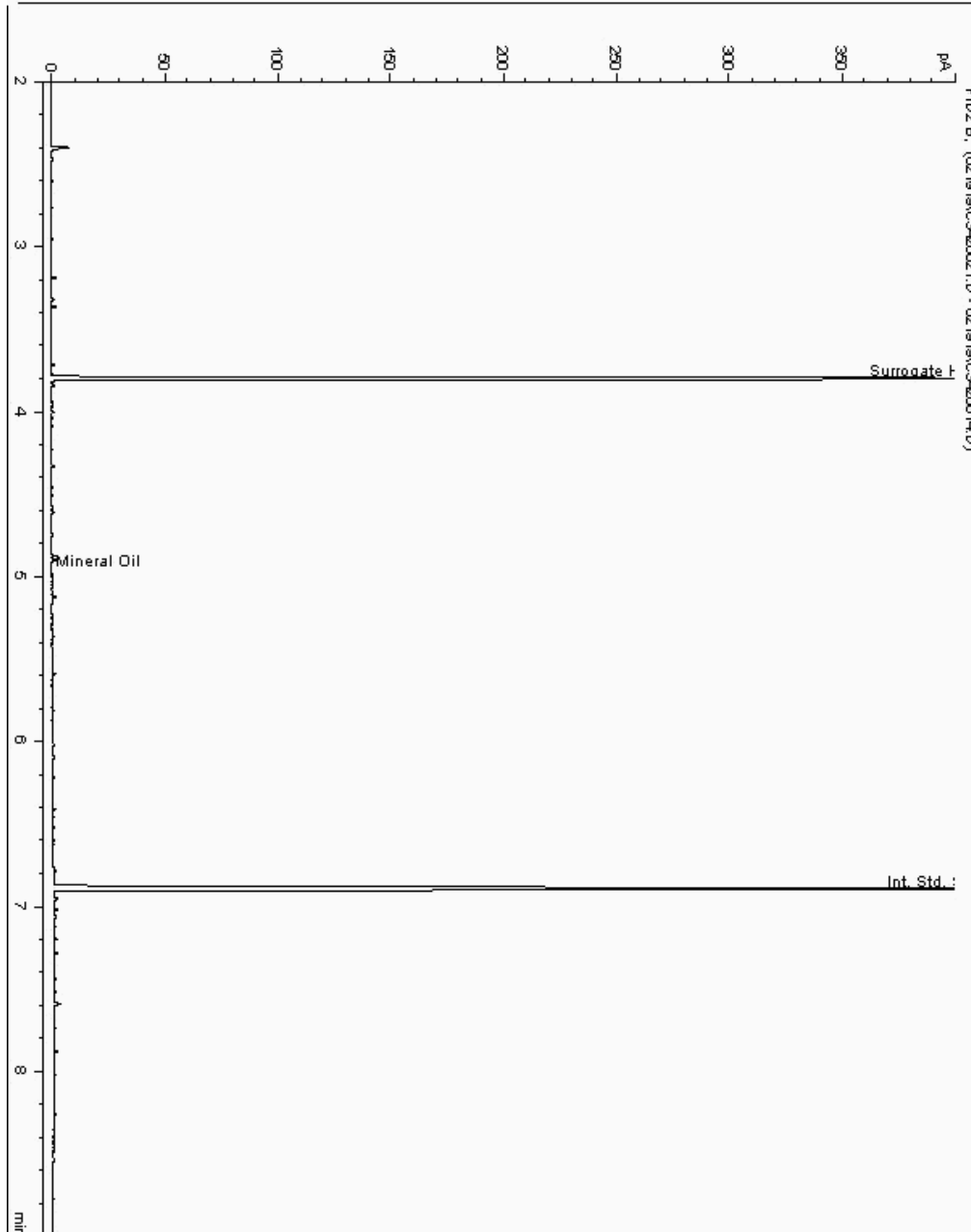
Analysis: Mineral Oil
19347559

Sample No :
Sample ID : BH206

19,347,559Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109482-
Date Acquired : 19/02/19 13:03:16 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

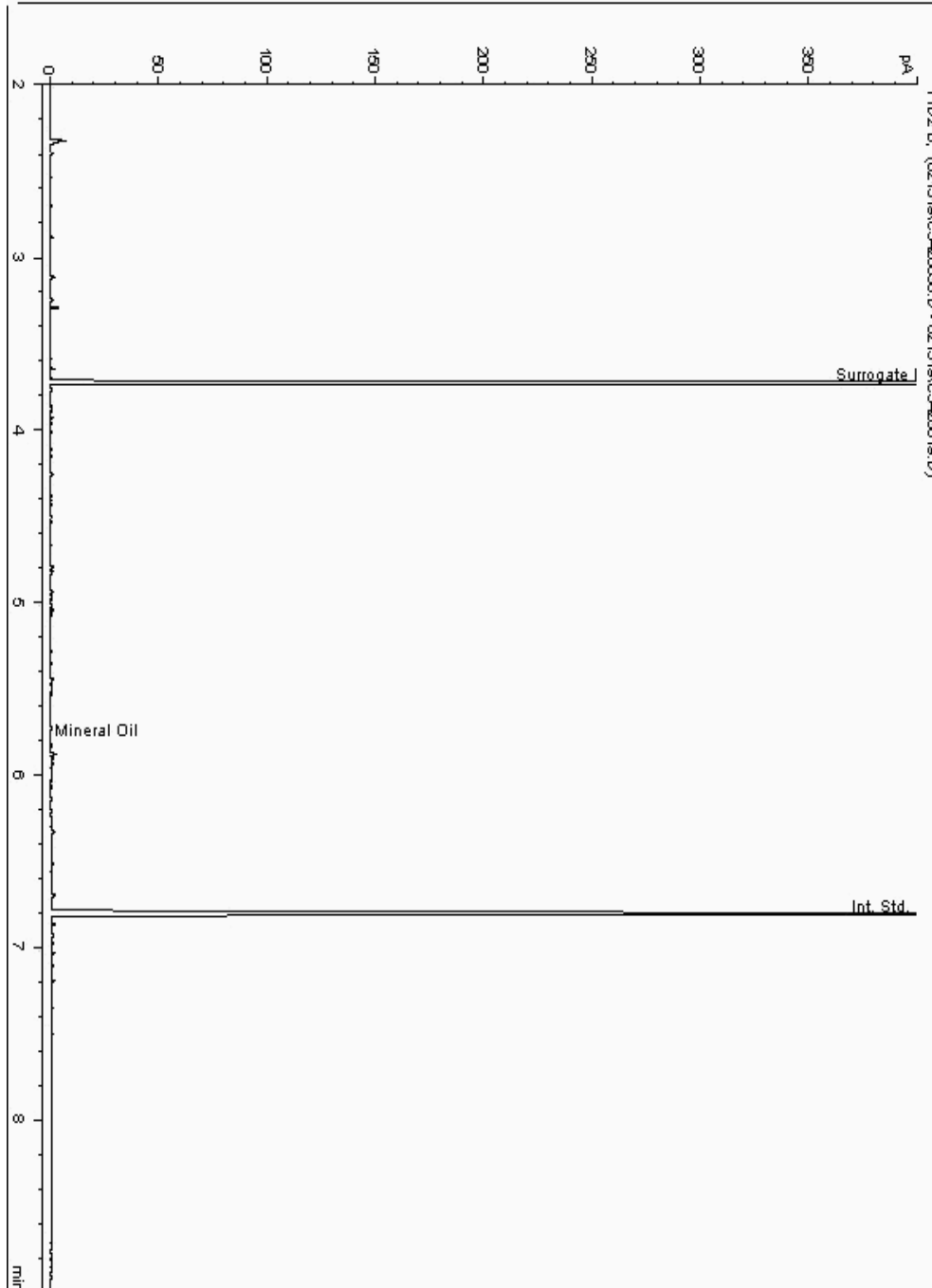
Analysis: Mineral Oil
19347576

Sample No :
Sample ID : BH207

19,347,576 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110571-
Date Acquired : 15/02/2019 18:53:08 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

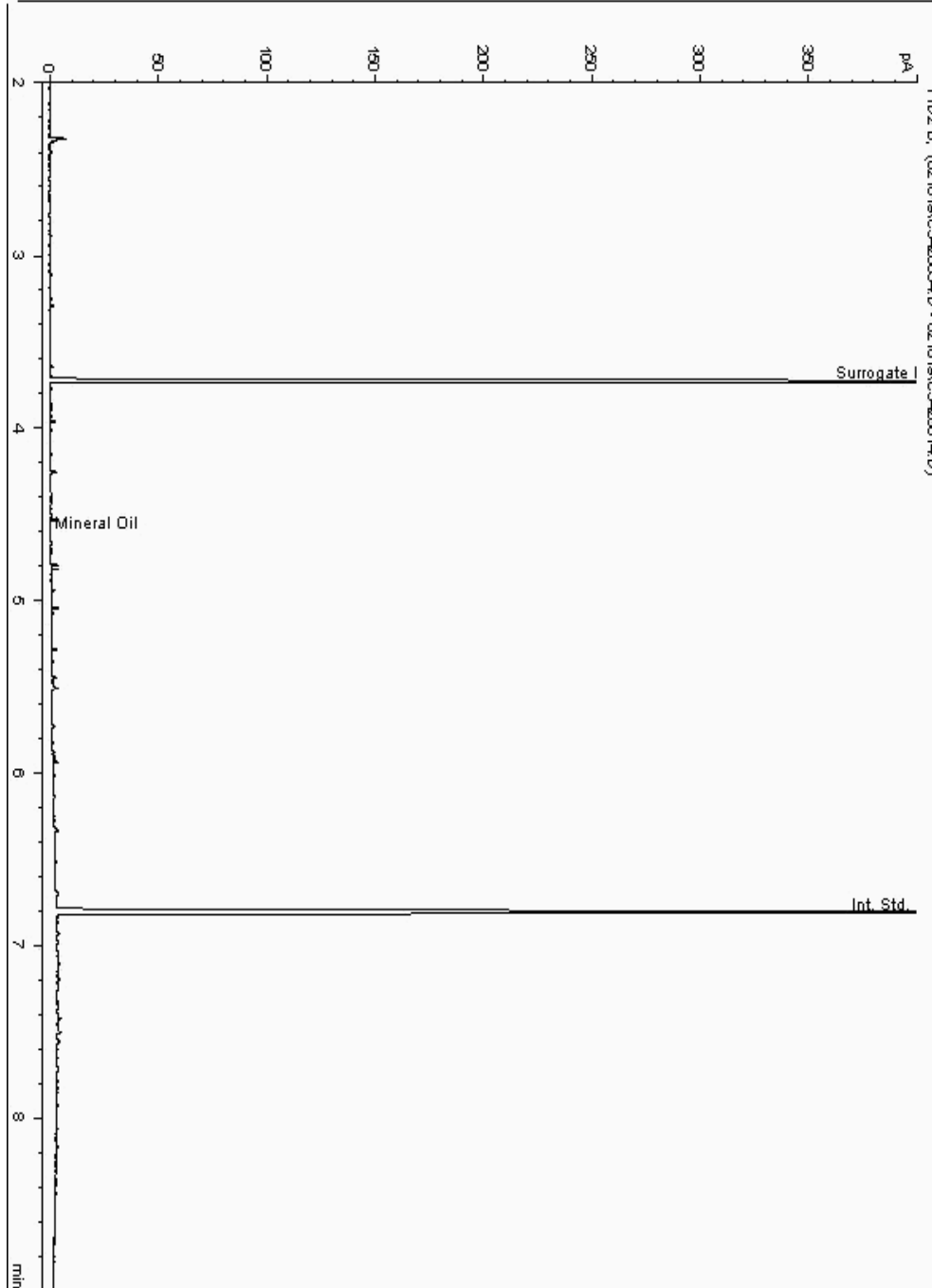
Analysis: Mineral Oil
19347626

Sample No :
Sample ID : BH207

19,347,626 Depth : 0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110051-
Date Acquired : 18/02/2019 21:28:30 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

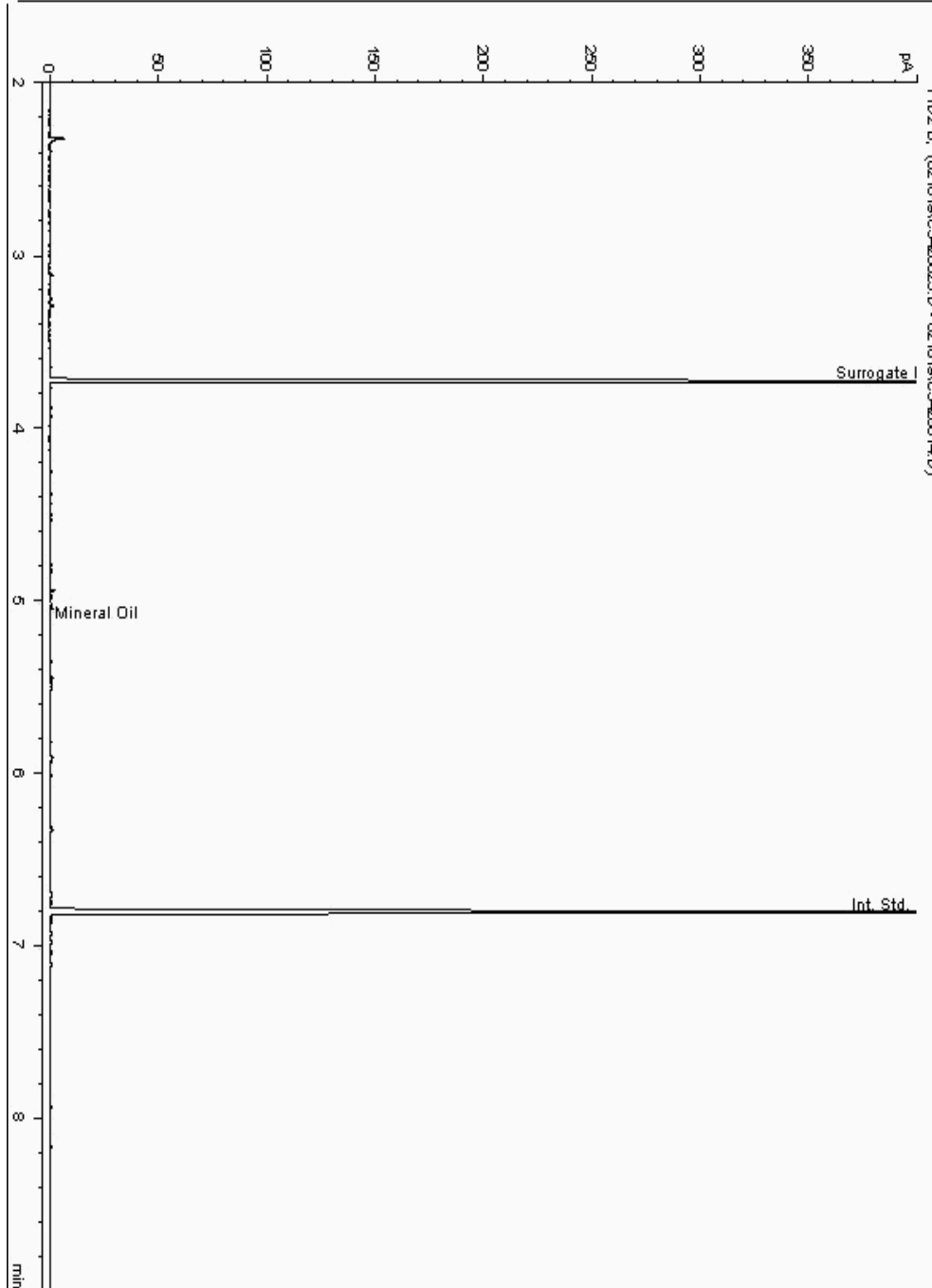
Analysis: Mineral Oil
19347643

Sample No :
Sample ID : BH206

19,347,643 Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109667-
Date Acquired : 18/02/2019 18:04:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

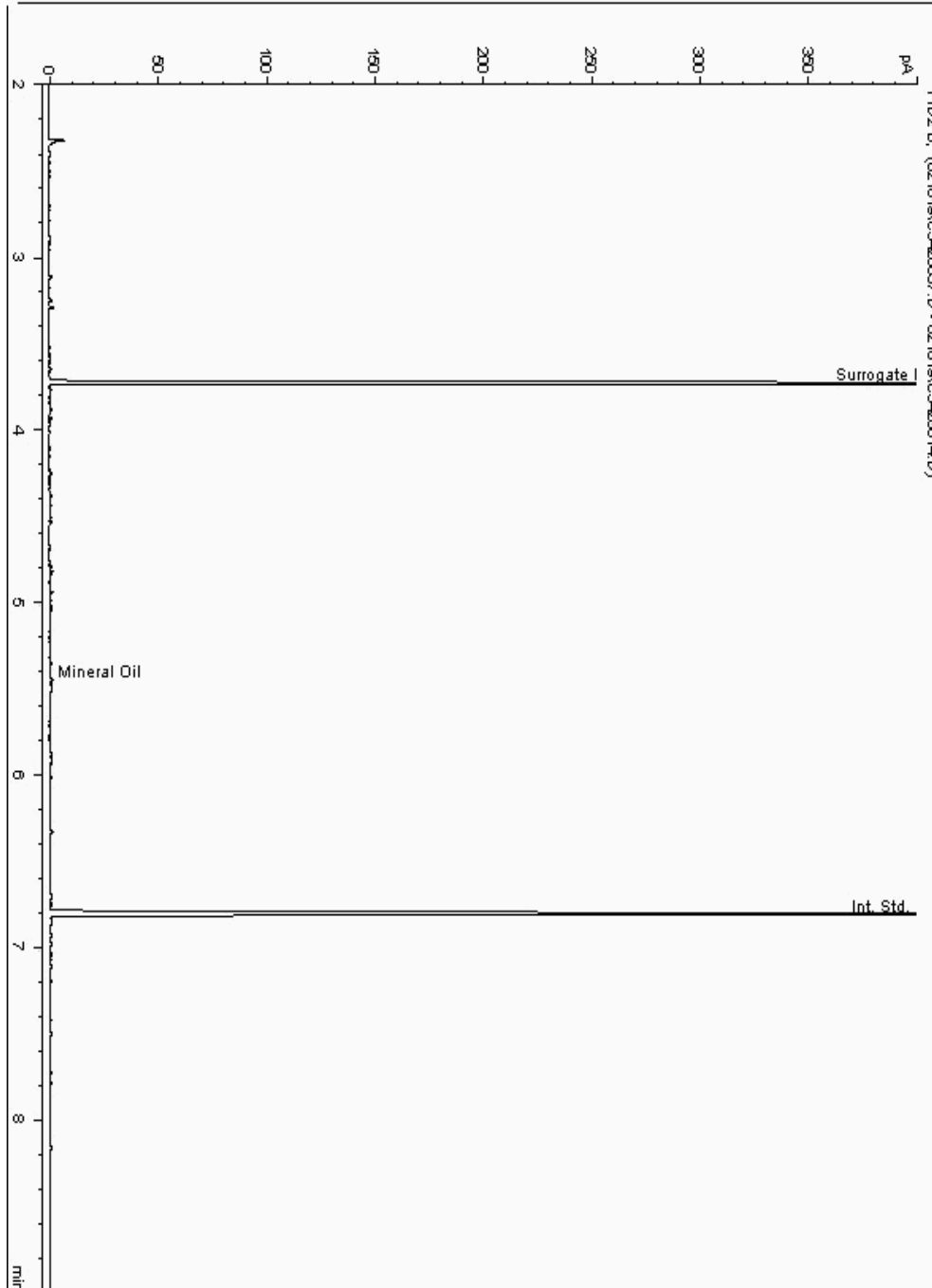
Analysis: Mineral Oil
19347784

Sample No :
Sample ID : BH207

19,347,784Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110118-
Date Acquired : 18/02/2019 22:22:38 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

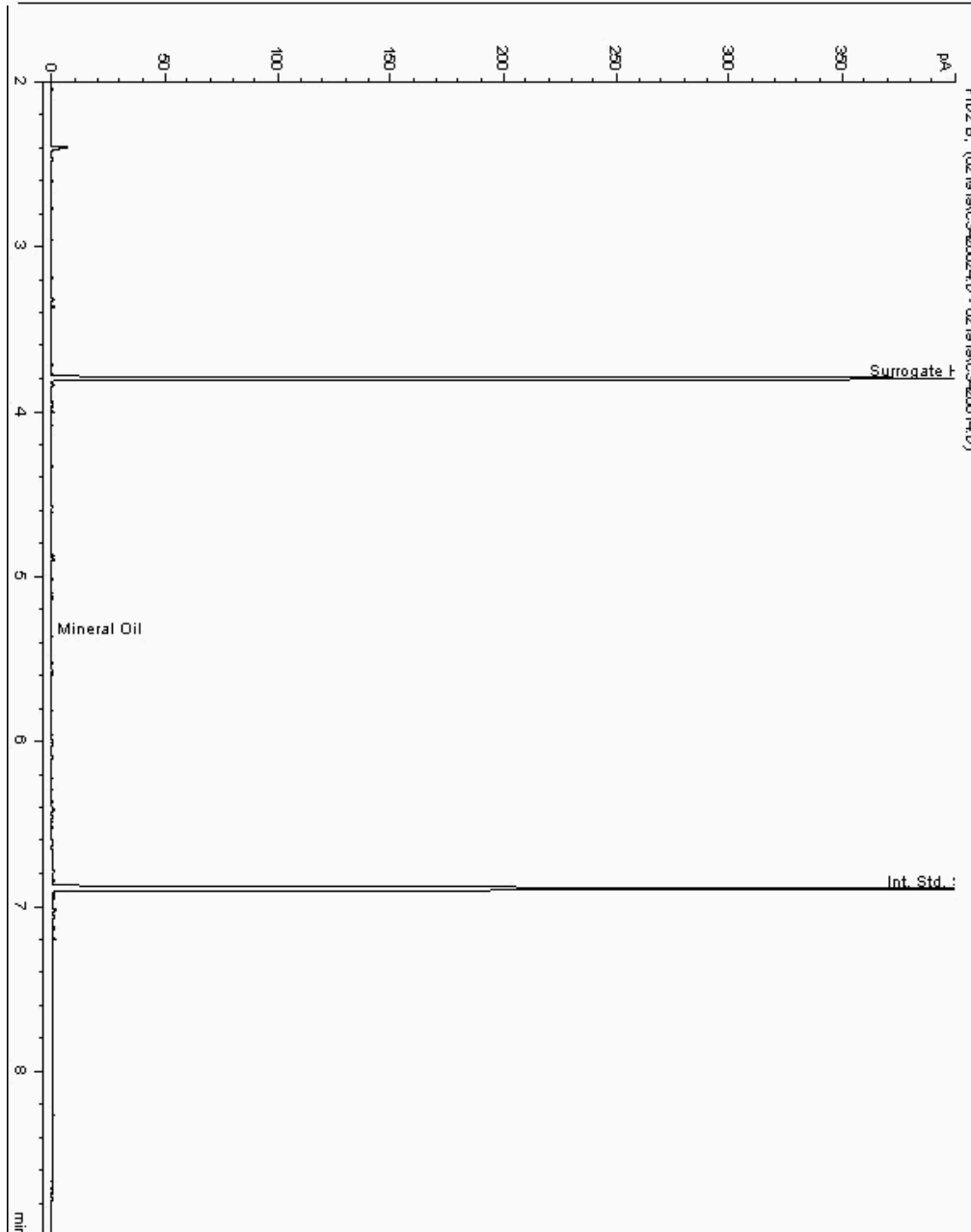
Analysis: Mineral Oil
19348150

Sample No :
Sample ID : BH208

19,348,150 Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111008-
Date Acquired : 19/02/19 13:56:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

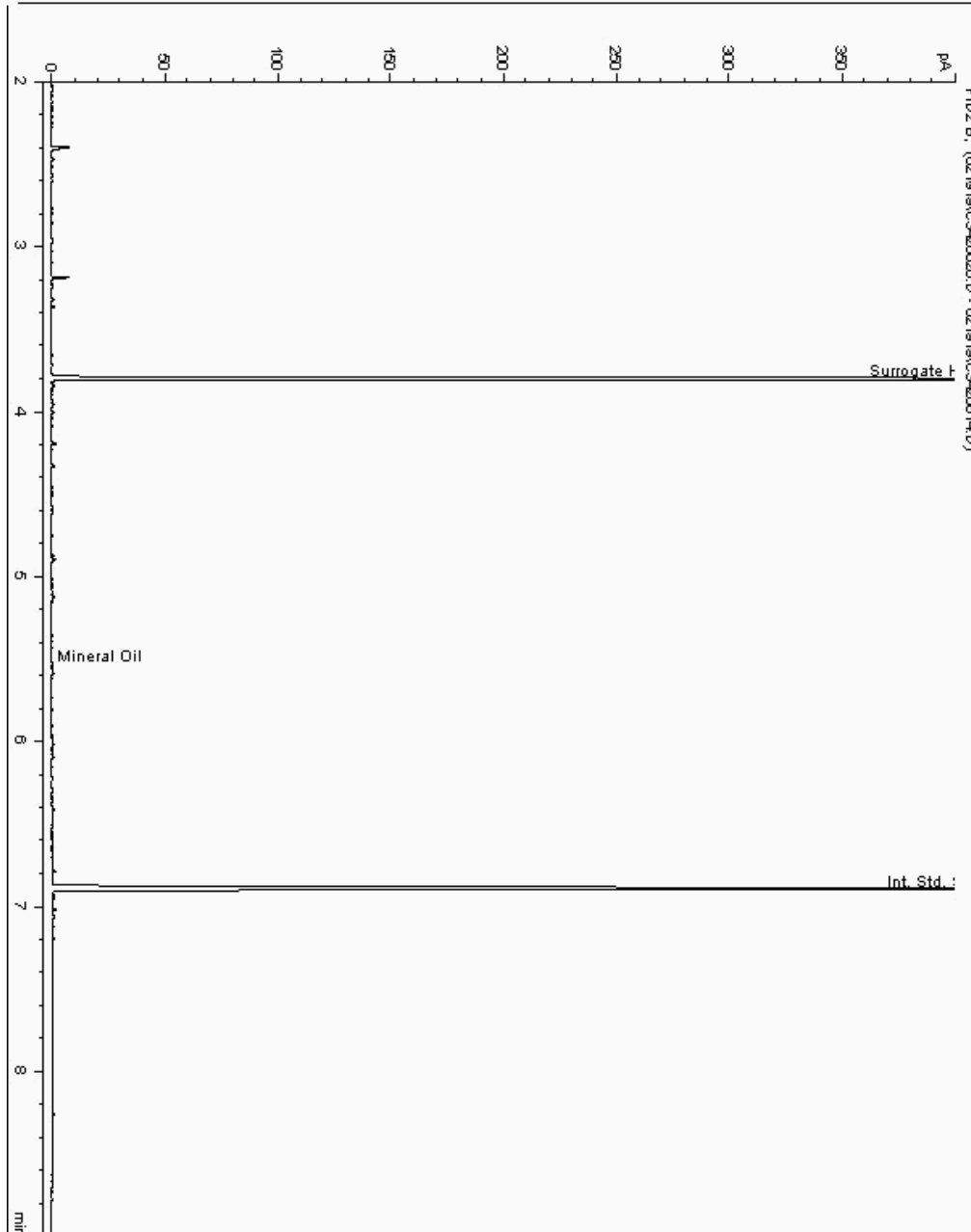
Analysis: Mineral Oil
19349790

Sample No :
Sample ID : BH220

19,349,790Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111805-
Date Acquired : 19/02/19 12:43:03 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

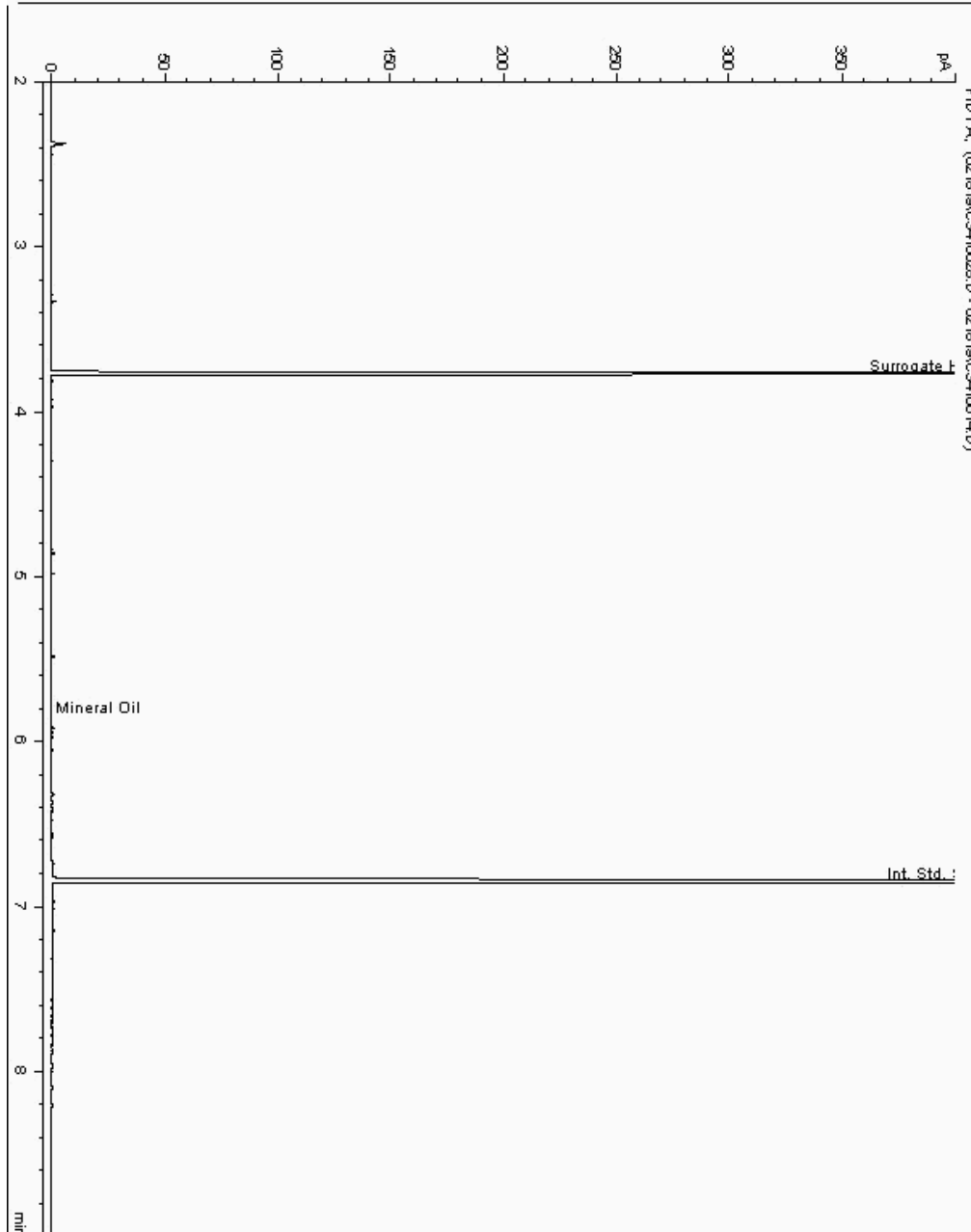
Analysis: Mineral Oil
19349920

Sample No :
Sample ID : BH209

19,349,920 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112042-
Date Acquired : 18/02/19 16:10:54 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

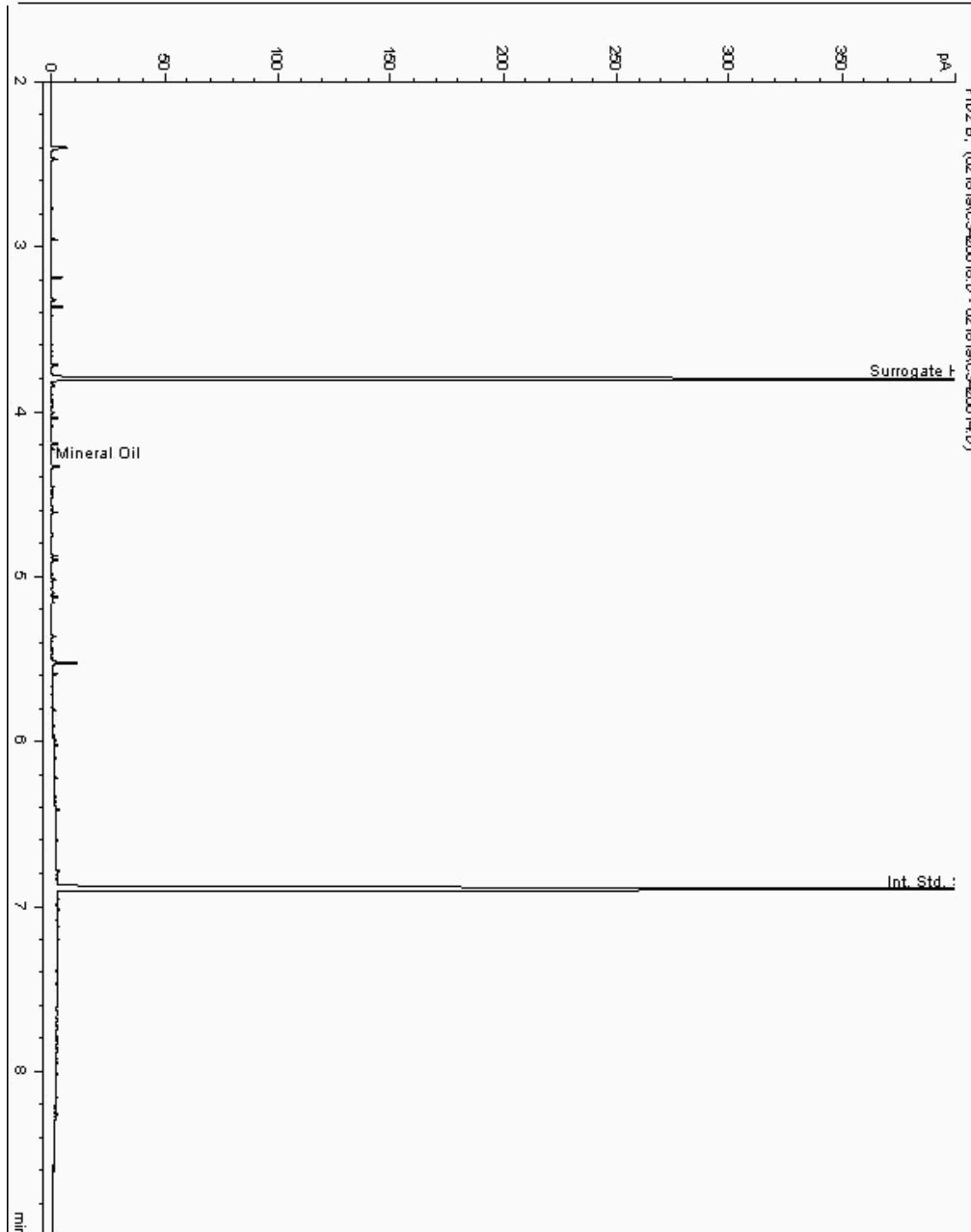
Analysis: Mineral Oil
19350041

Sample No :
Sample ID : BH220

19,350,041 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111780-
Date Acquired : 18/02/19 12:30:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

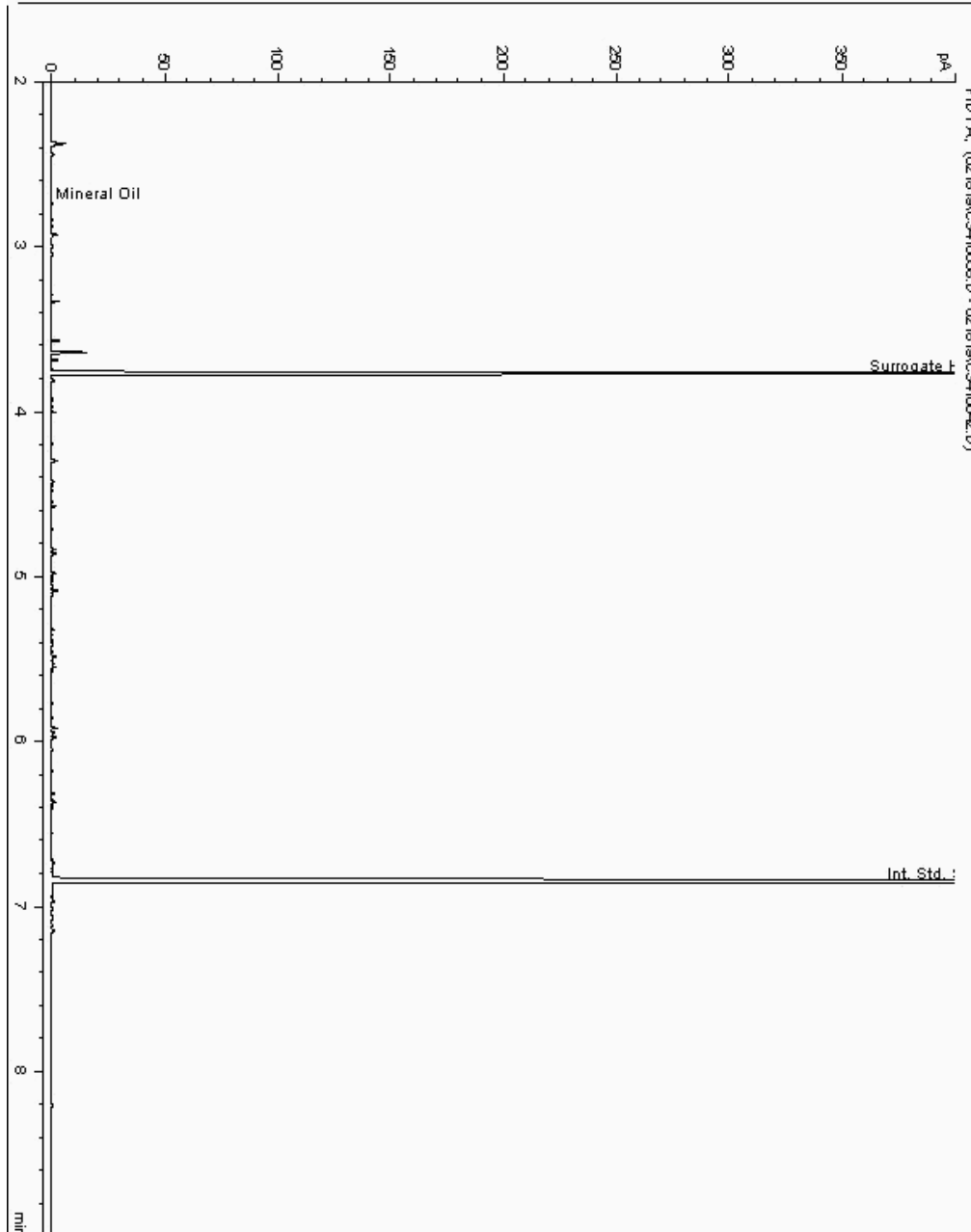
Analysis: Mineral Oil
19350167

Sample No :
Sample ID : BH221

19,350,167Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111518-
Date Acquired : 19/02/19 01:23:36 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

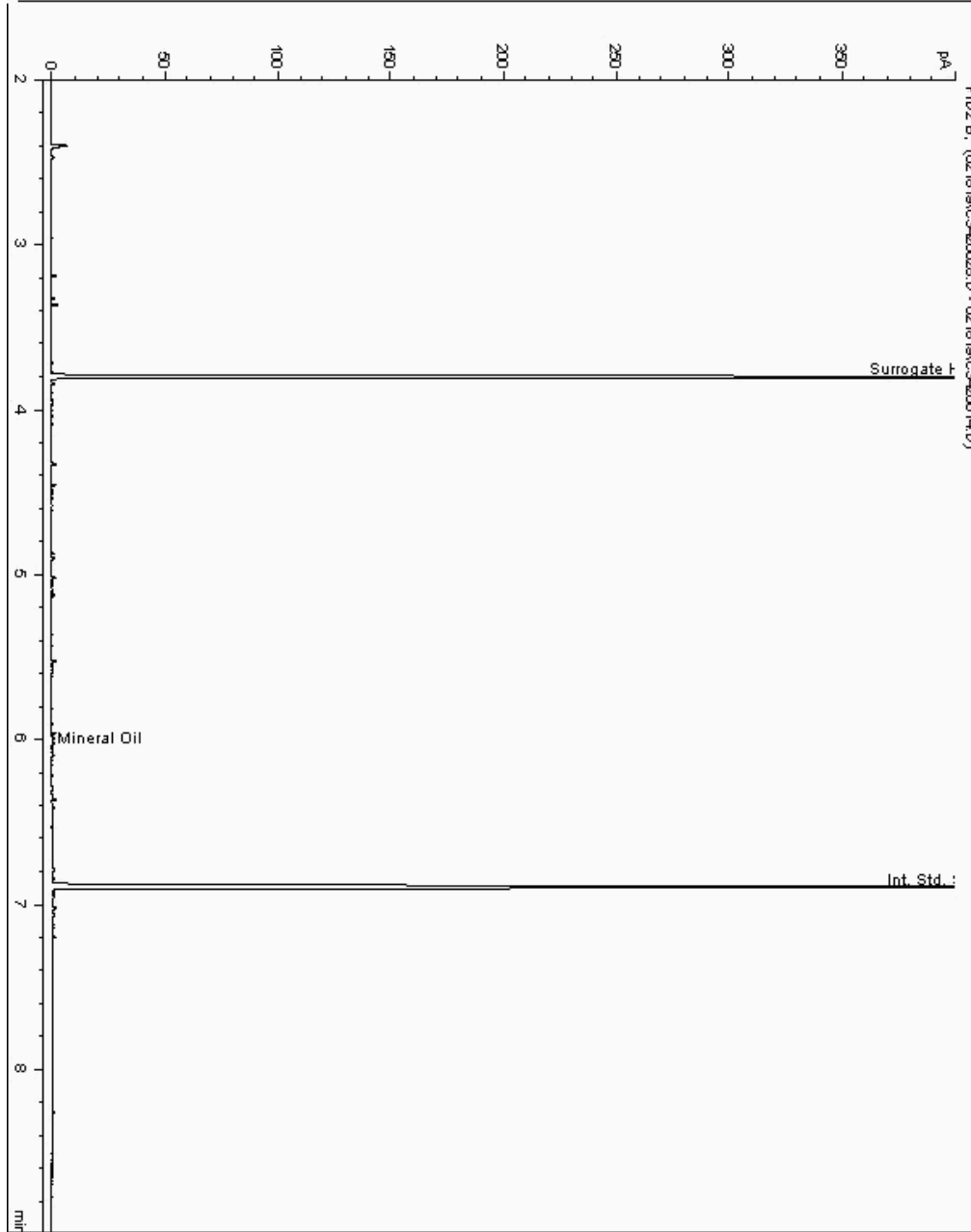
Analysis: Mineral Oil
19350320

Sample No :
Sample ID : BH220

19,350,320Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111830-
Date Acquired : 18/02/19 16:10:54 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

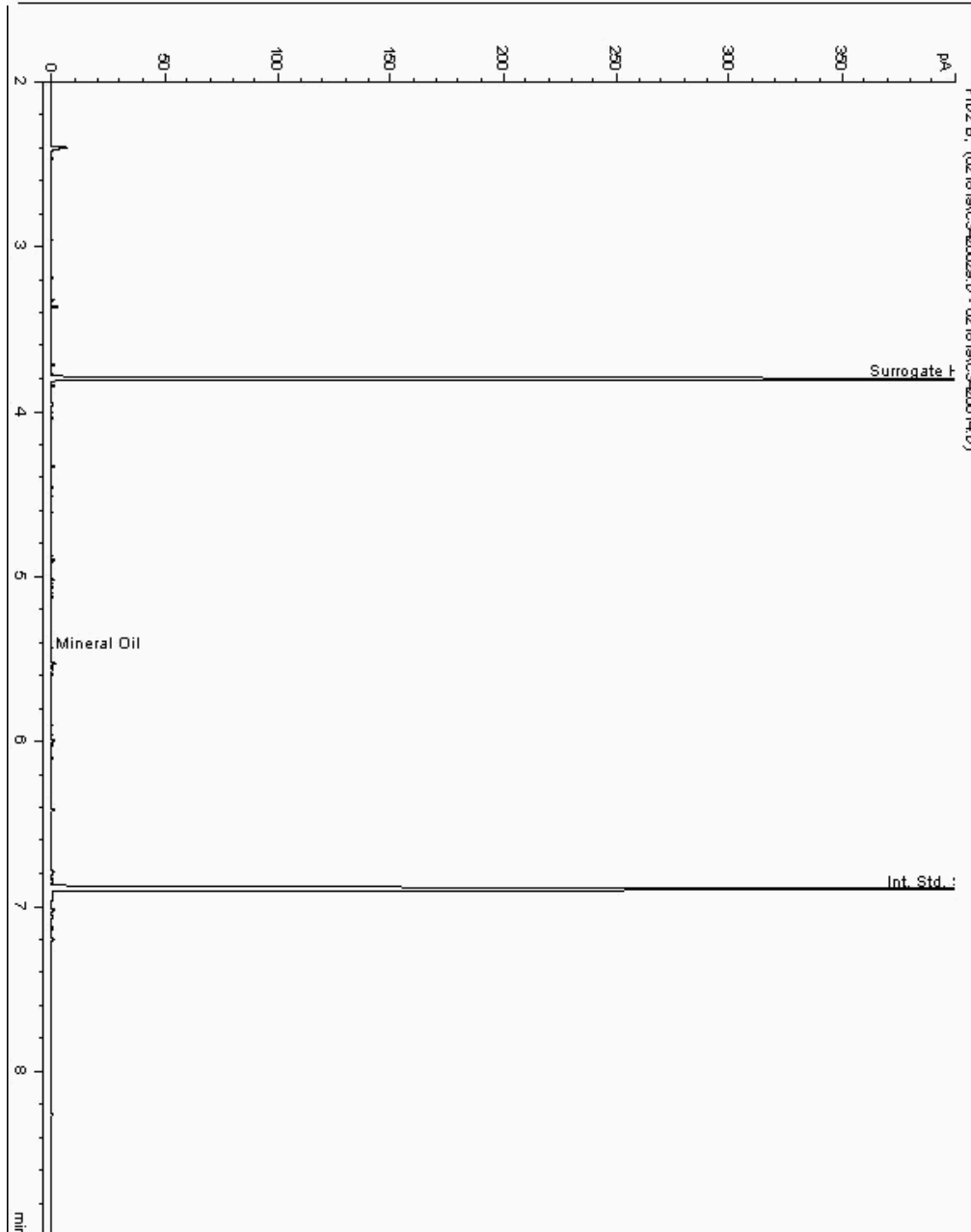
Analysis: Mineral Oil
19350465

Sample No :
Sample ID : BH221

19,350,465Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111473-
Date Acquired : 18/02/19 16:31:29 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

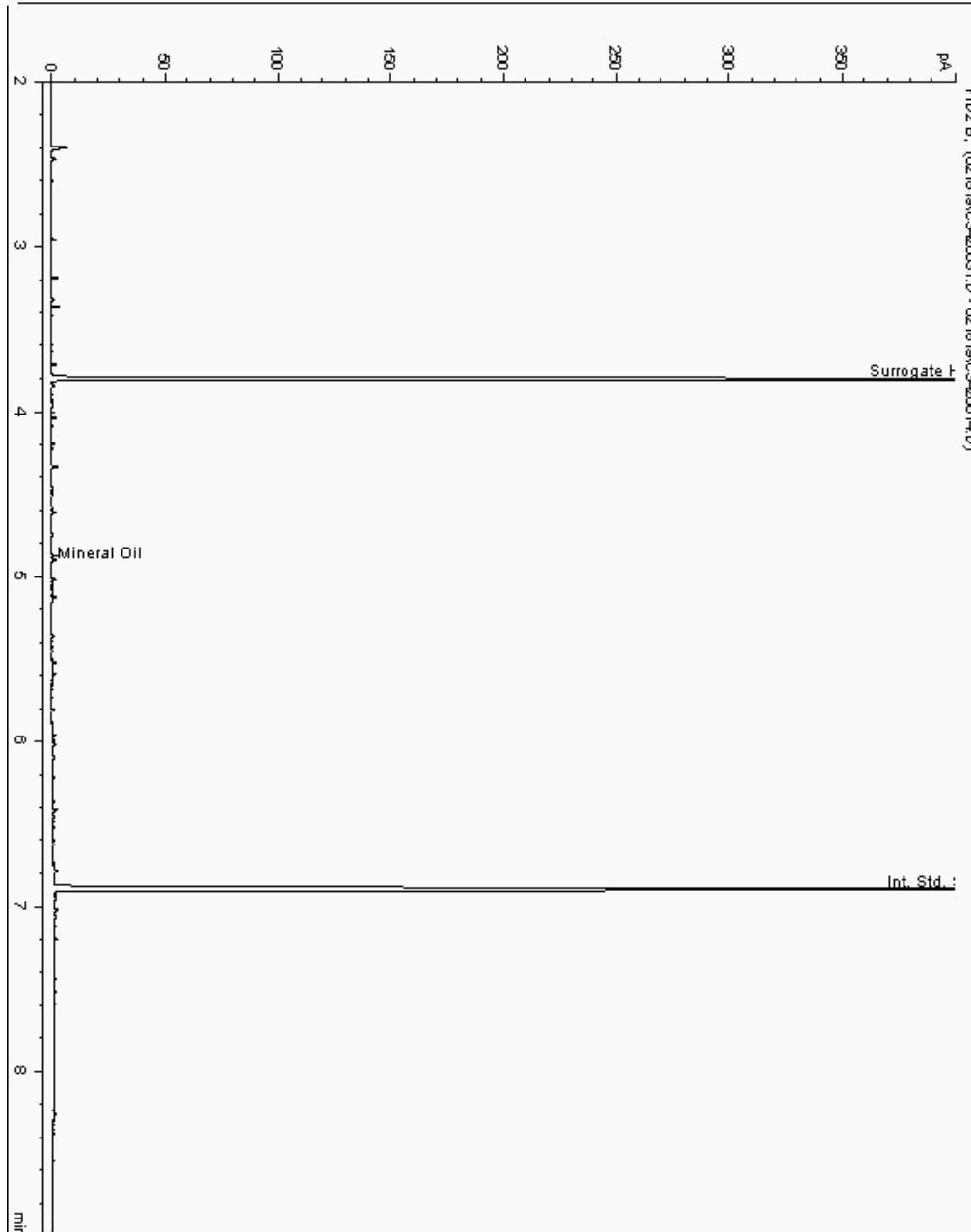
Analysis: Mineral Oil
19350768

Sample No :
Sample ID : BH209

19,350,768Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112135-
Date Acquired : 18/02/19 17:03:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

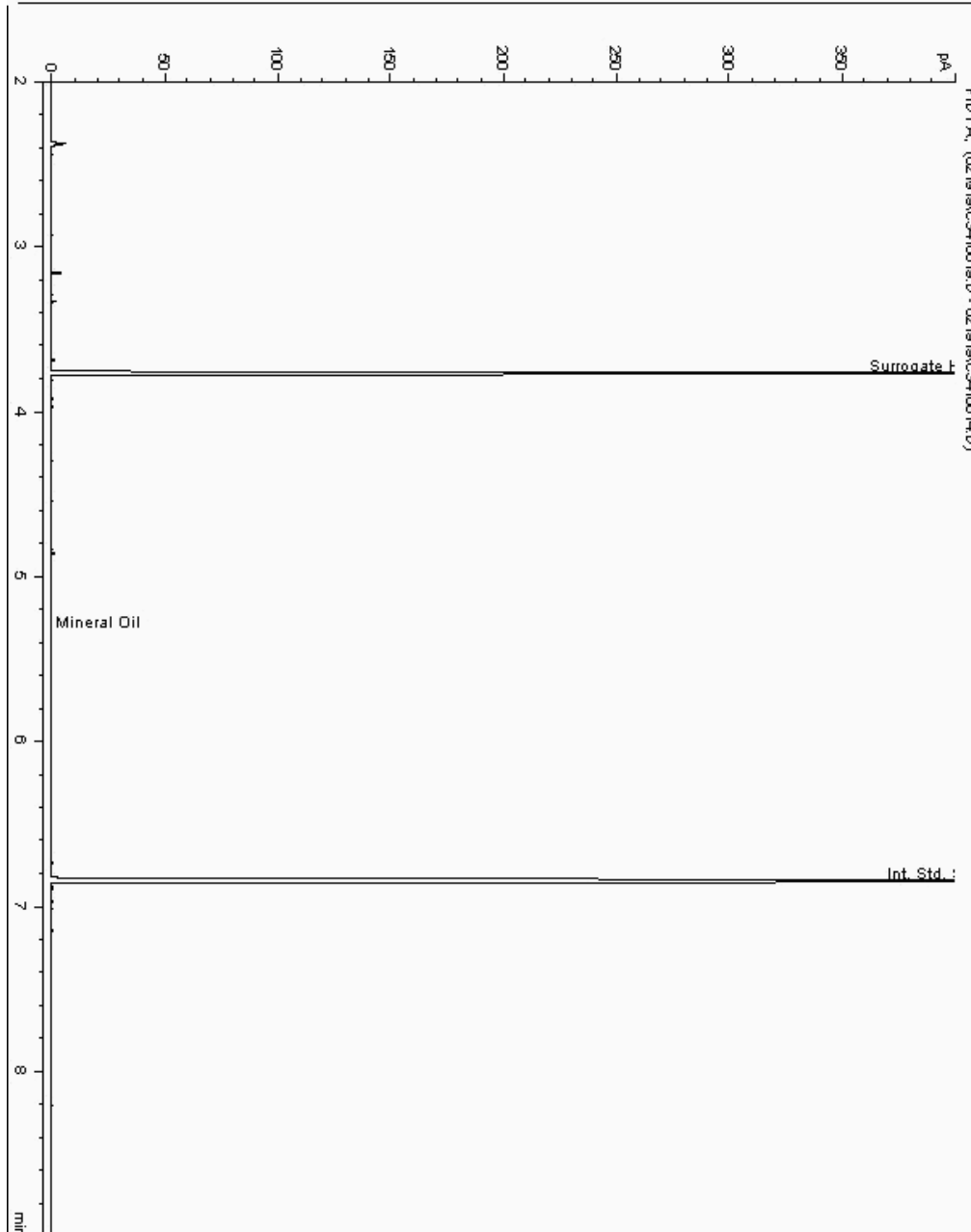
Analysis: Mineral Oil
19350934

Sample No :
Sample ID : BH221

19,350,934 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111436-
Date Acquired : 19/02/19 12:22:47 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

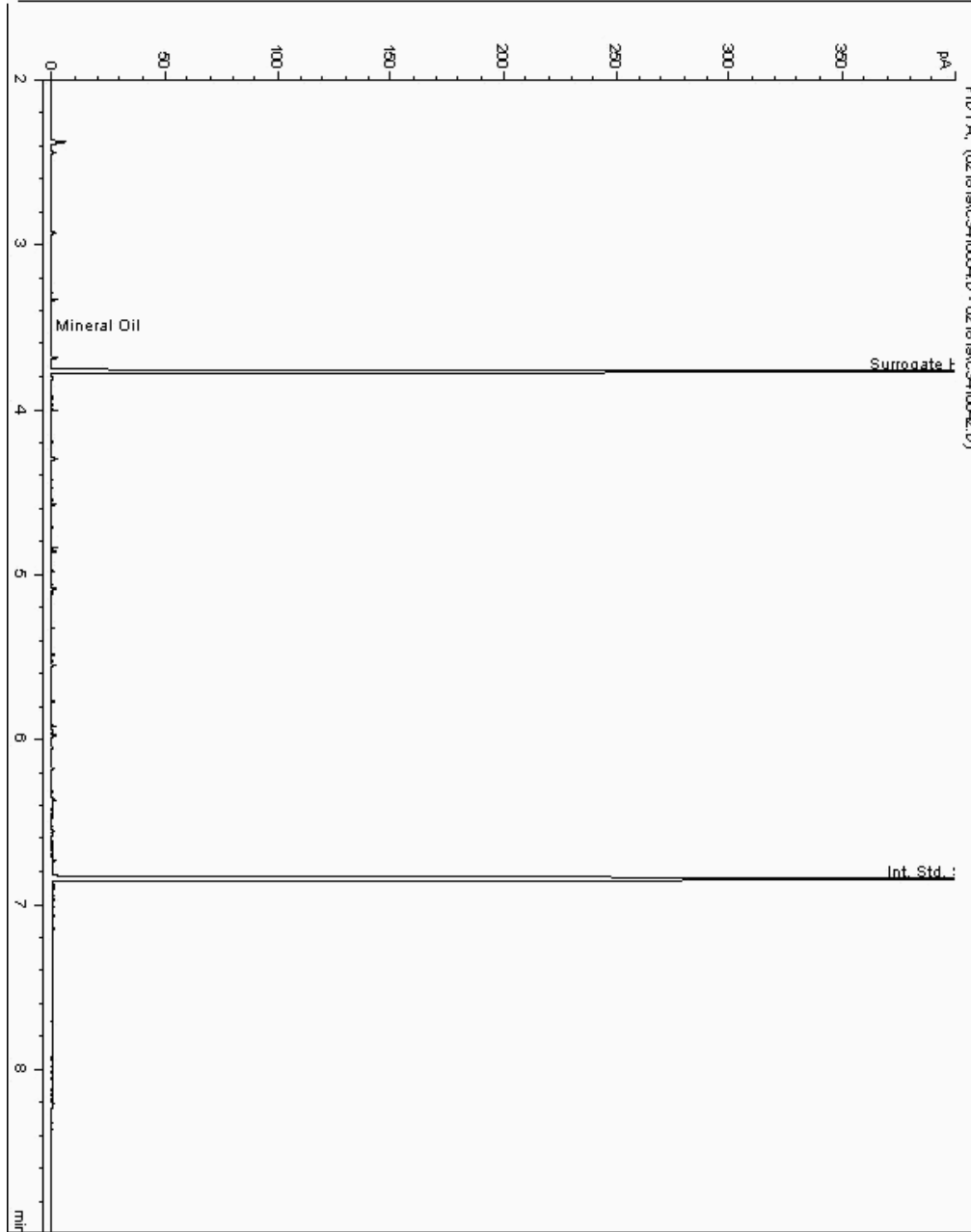
Analysis: Mineral Oil
19351016

Sample No :
Sample ID : BH209

19,351,016Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18112100-
Date Acquired : 19/02/19 00:10:32 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

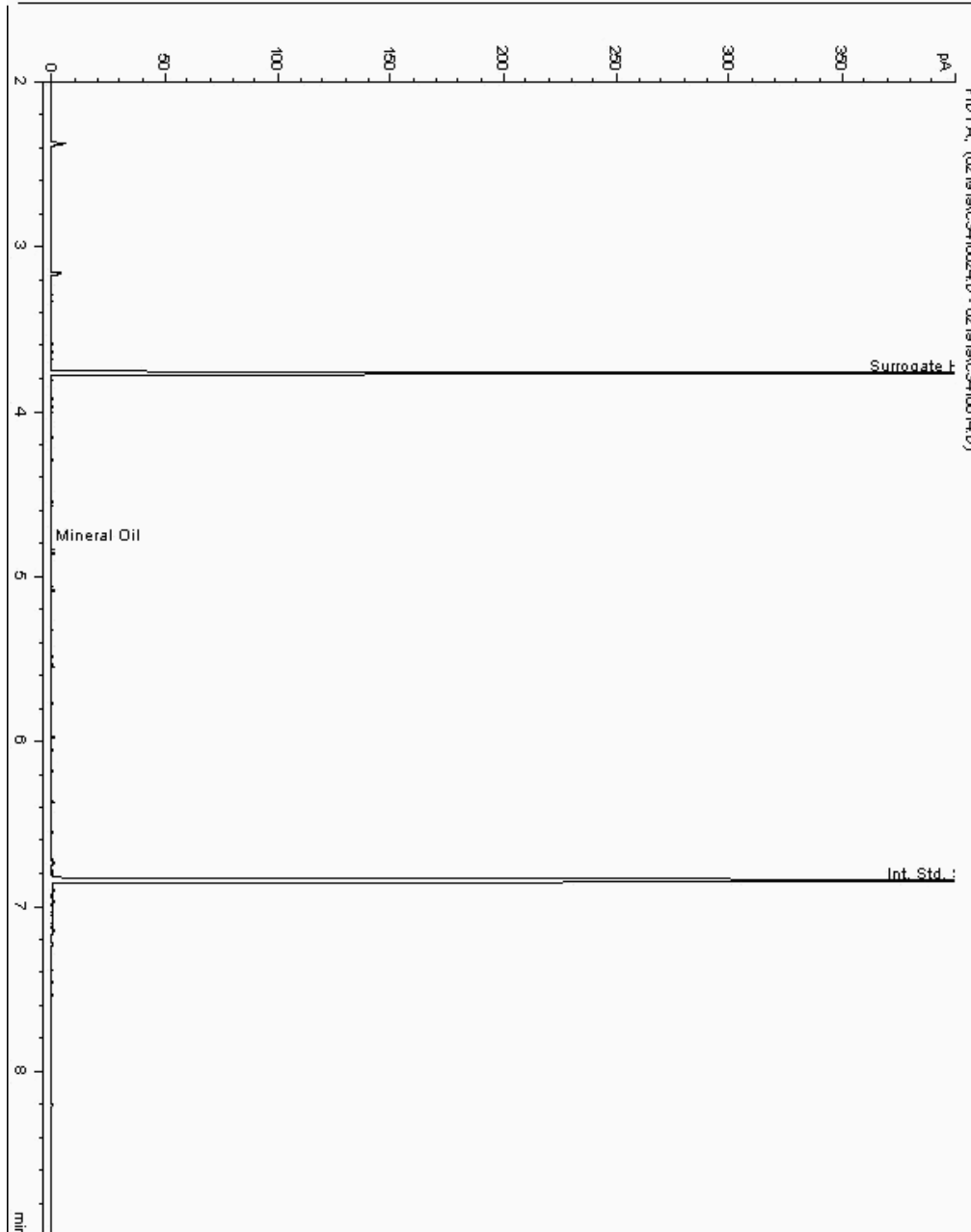
Analysis: Mineral Oil
19357929

Sample No :
Sample ID : BH207

19,357,929 Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109975-
Date Acquired : 19/02/19 13:56:13 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

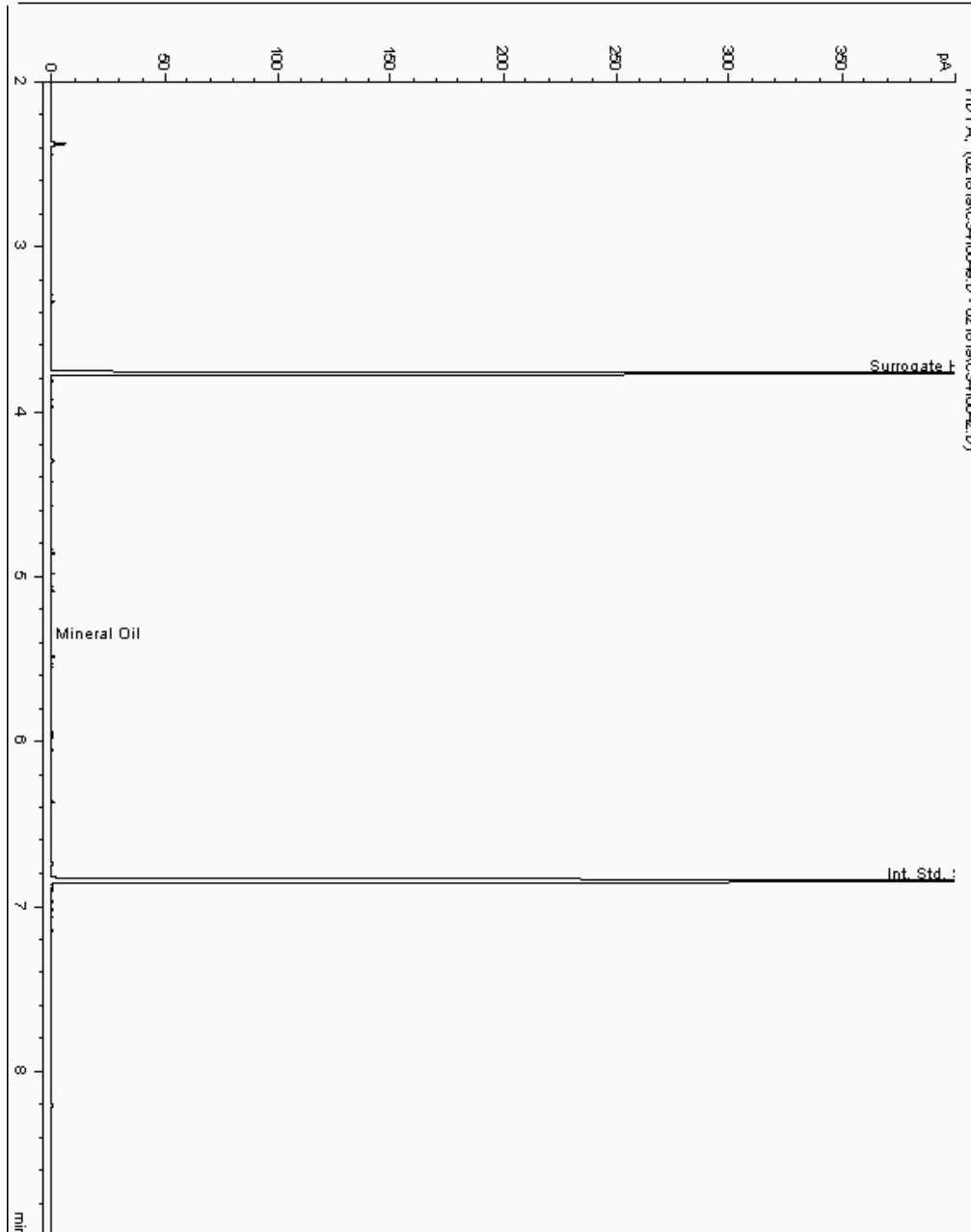
Analysis: Mineral Oil
19361748

Sample No :
Sample ID : BH208

19,361,748 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18111039-
Date Acquired : 18/02/19 22:36:55 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

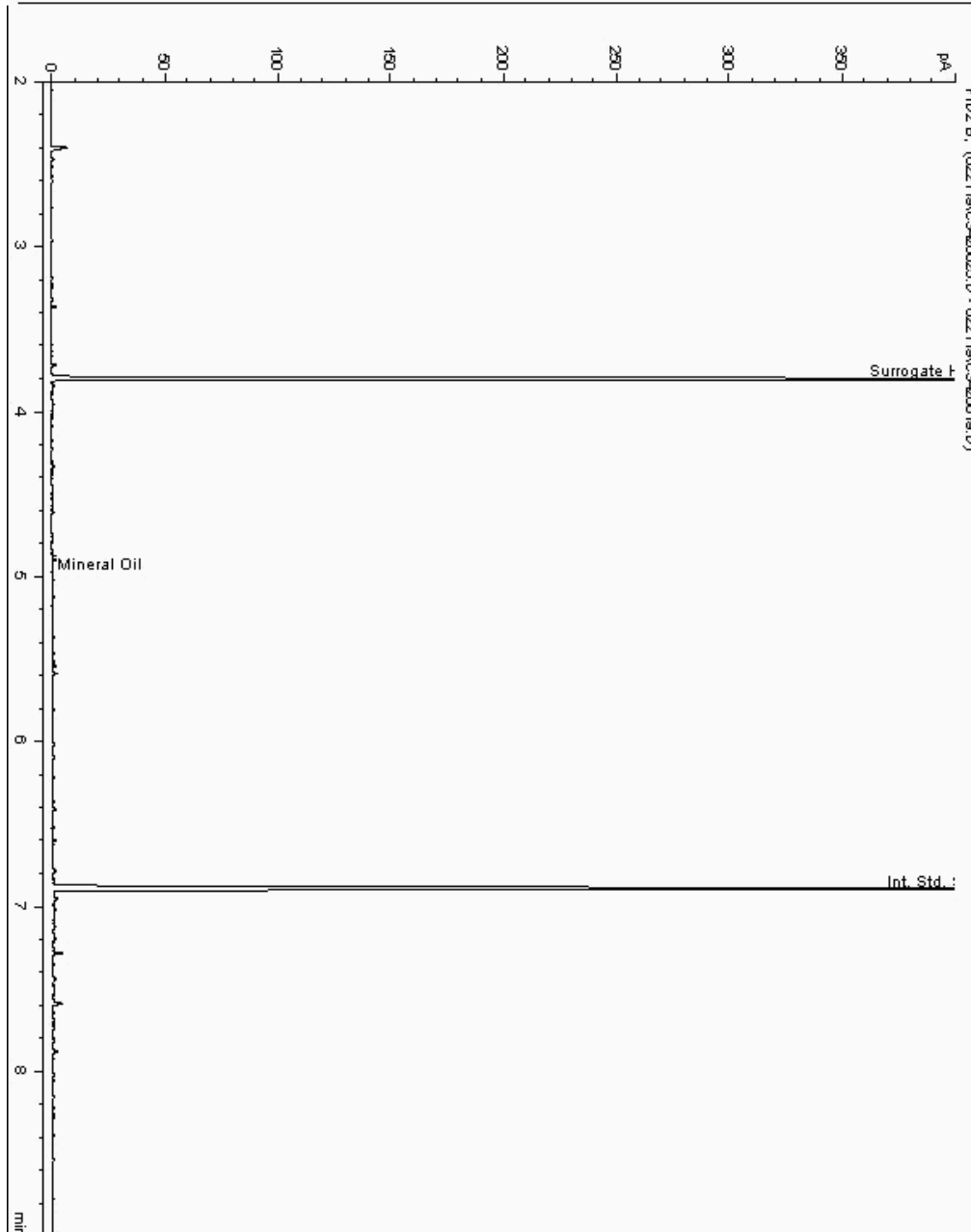
Analysis: Mineral Oil
19391969

Sample No :
Sample ID : BH206

19,391,969Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18222359-
Date Acquired : 21/02/19 14:42:29 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

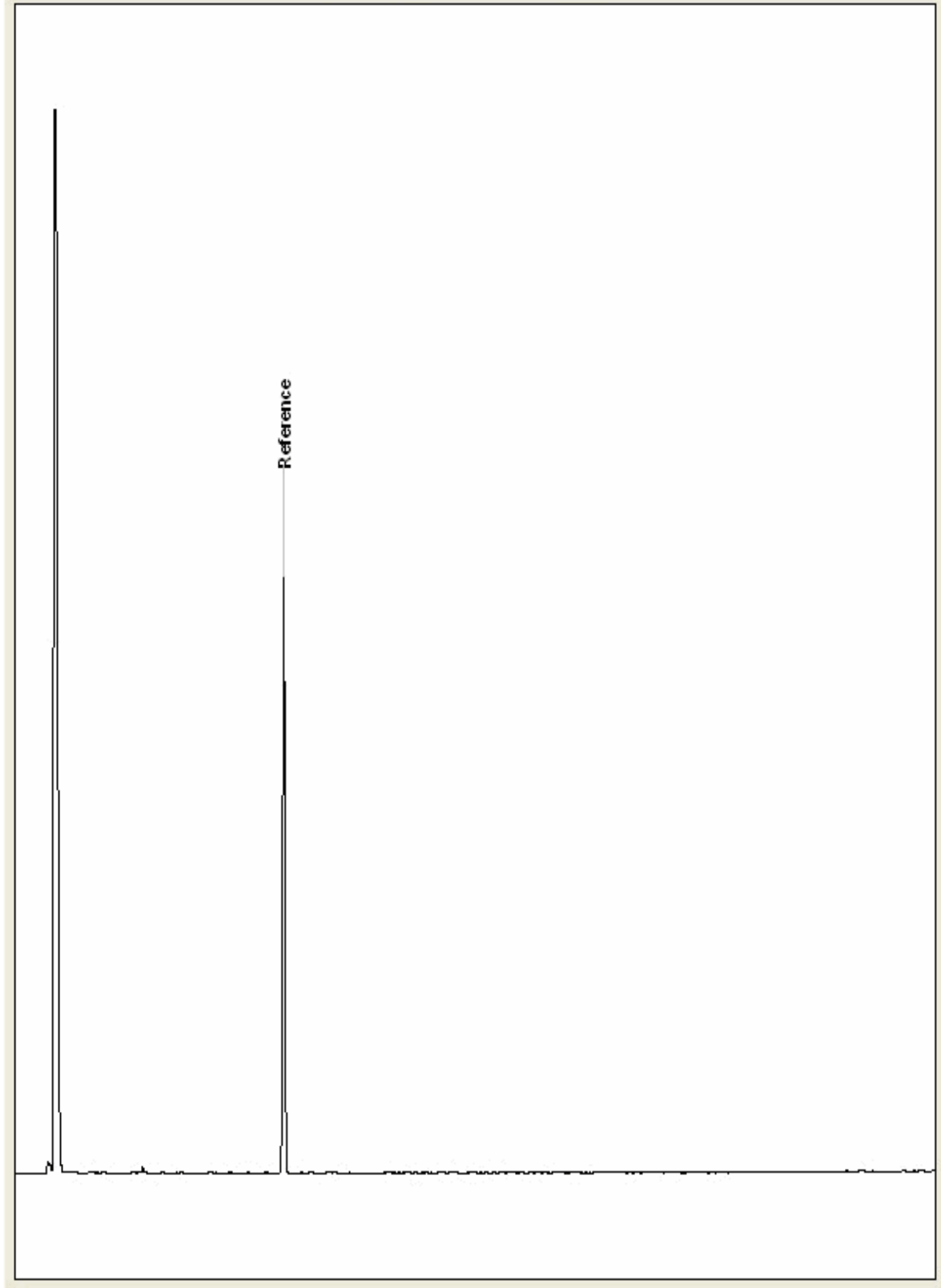
Chromatogram

Analysis: GRO by GC-FID (S)
19354336

Sample No :
Sample ID : BH207

19,354,336Depth :0.50 - 1.00

19354336_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

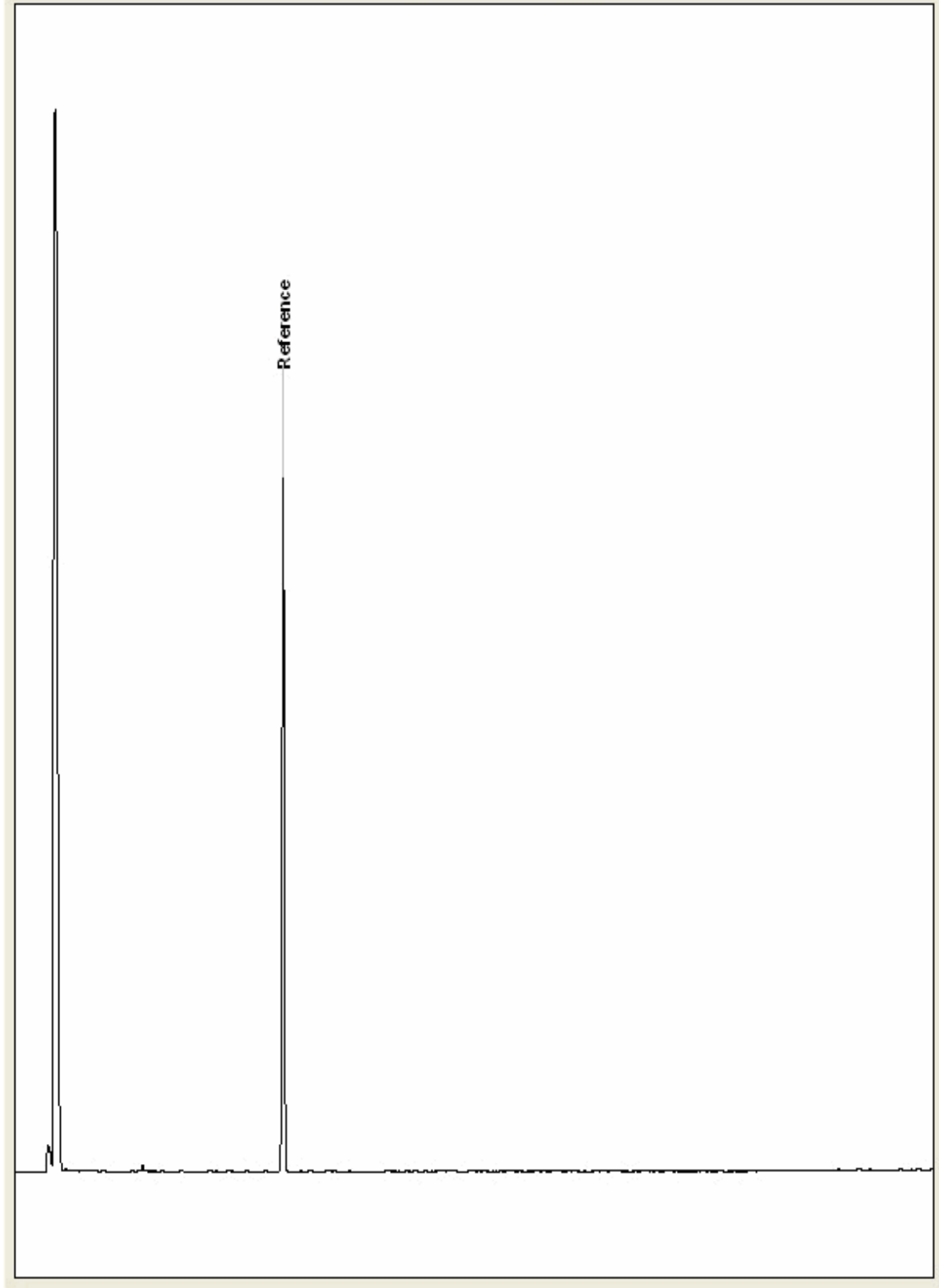
Chromatogram

Analysis: GRO by GC-FID (S)
19354343

Sample No :
Sample ID : BH206

19,354,343Depth : 1.00 - 2.00

19354343_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

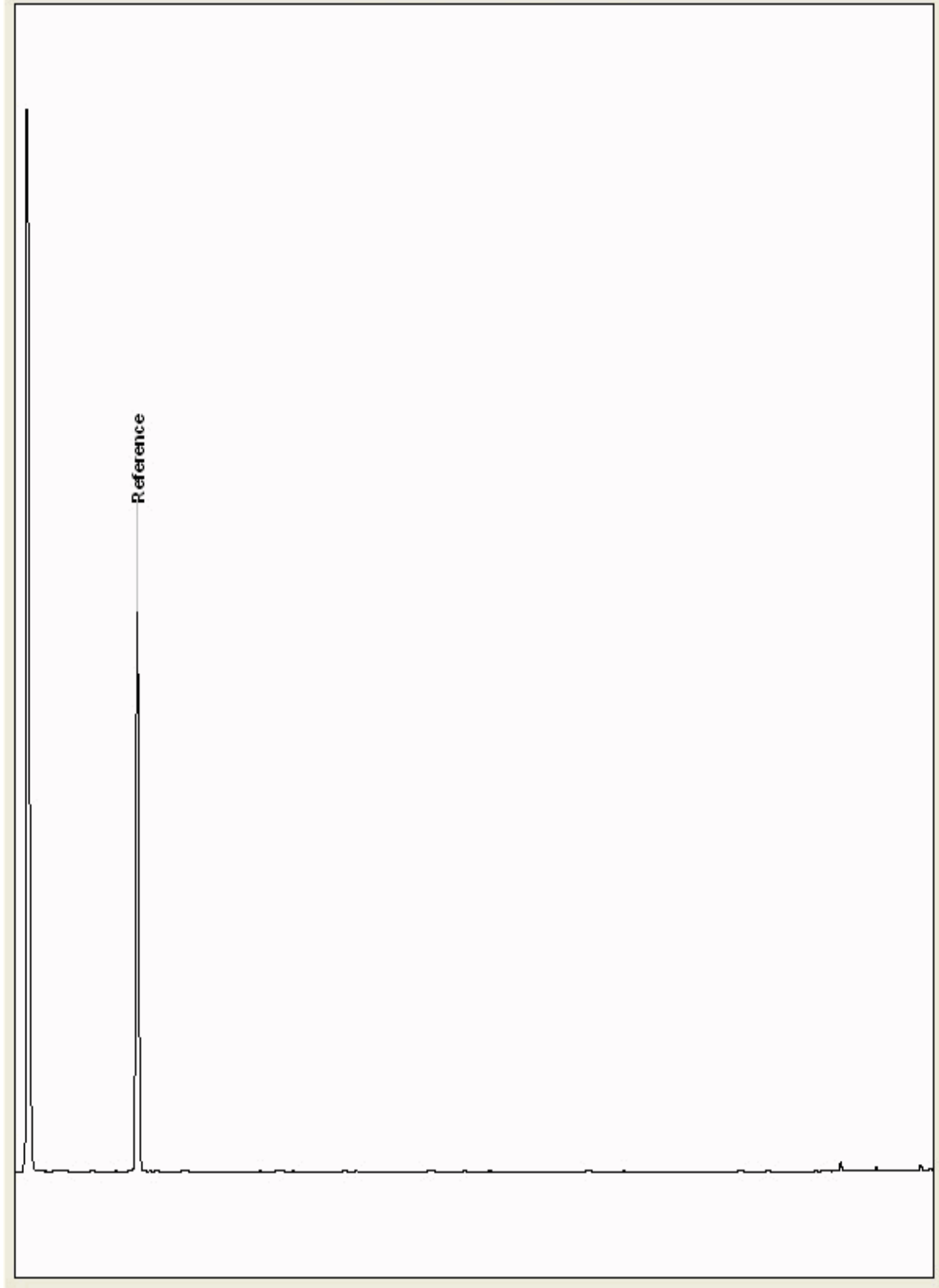
Chromatogram

Analysis: GRO by GC-FID (S)
19362184

Sample No :
Sample ID : BH206

19,362,184Depth :9.00 - 10.00

19362184_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

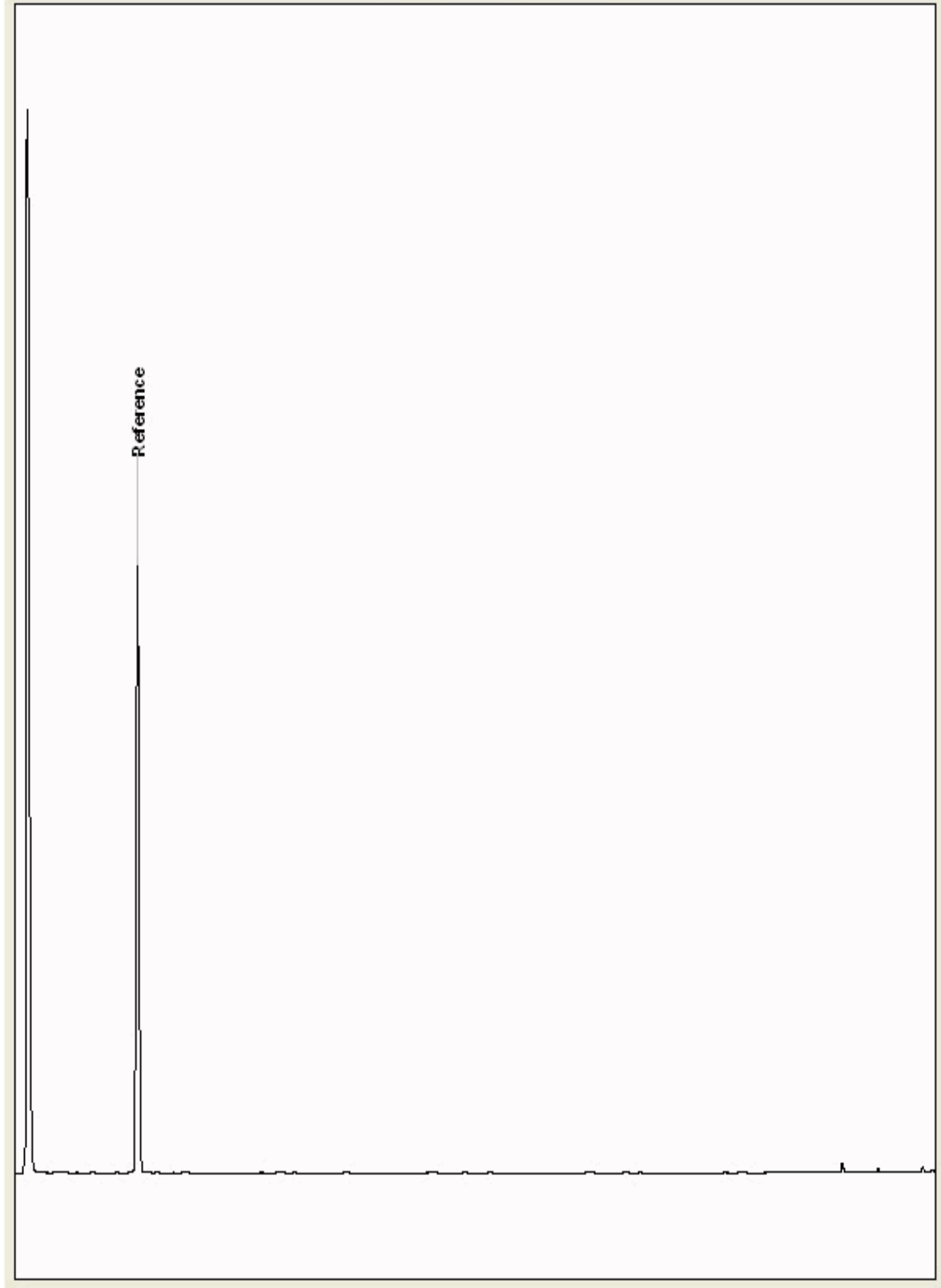
Chromatogram

Analysis: GRO by GC-FID (S)
19362230

Sample No :
Sample ID : BH207

19,362,230**Depth :**9.00 - 10.00

19362230_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

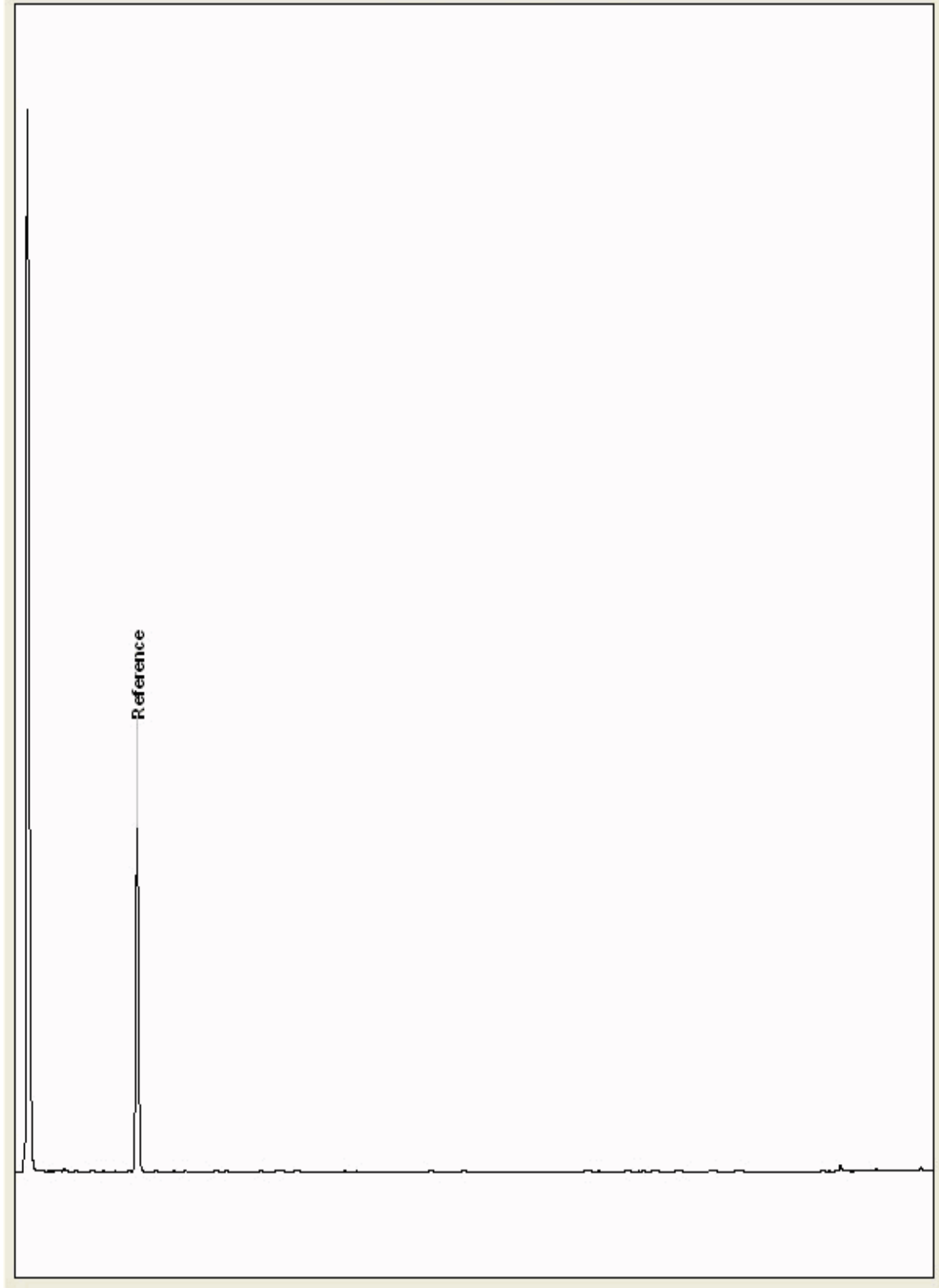
Chromatogram

Analysis: GRO by GC-FID (S)
19362275

Sample No :
Sample ID : BH206

19,362,275 Depth : 4.00 - 5.00

19362275_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

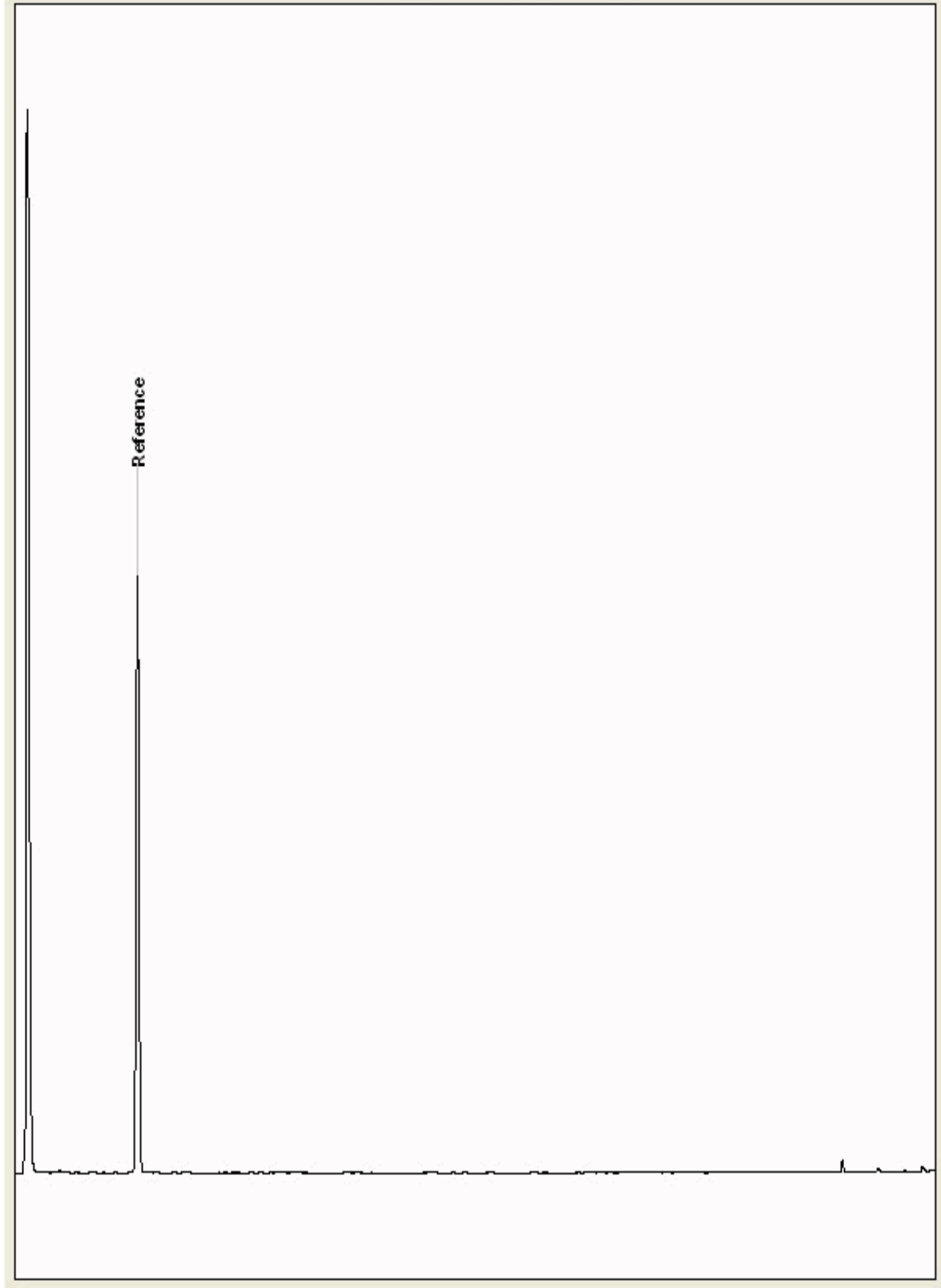
Chromatogram

Analysis: GRO by GC-FID (S)
19363174

Sample No :
Sample ID : BH207

19,363,174 Depth : 6.00 - 7.00

19363174_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

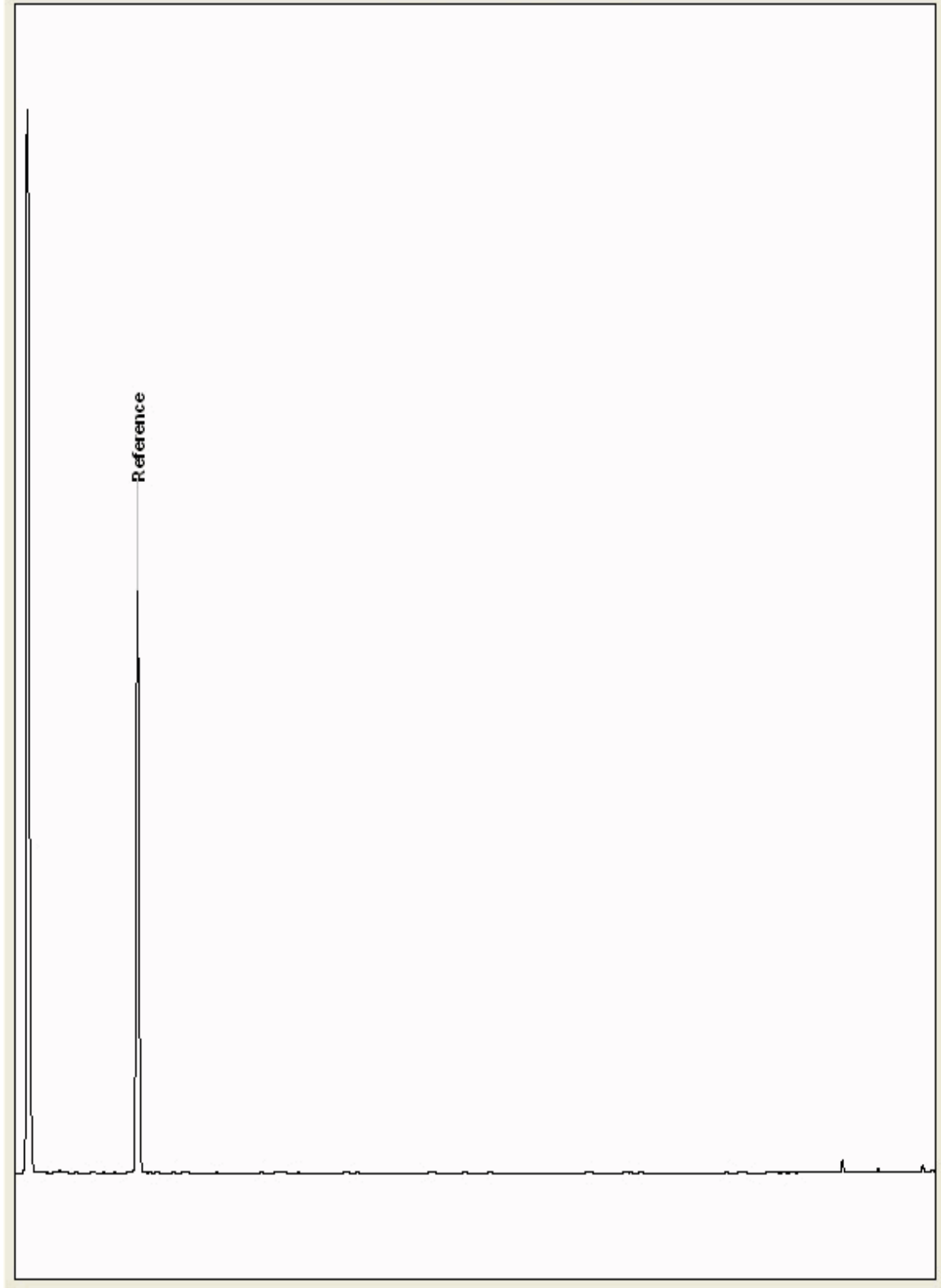
Chromatogram

Analysis: GRO by GC-FID (S)
19363283

Sample No :
Sample ID : BH207

19,363,283Depth : 1.00 - 2.00

19363283_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

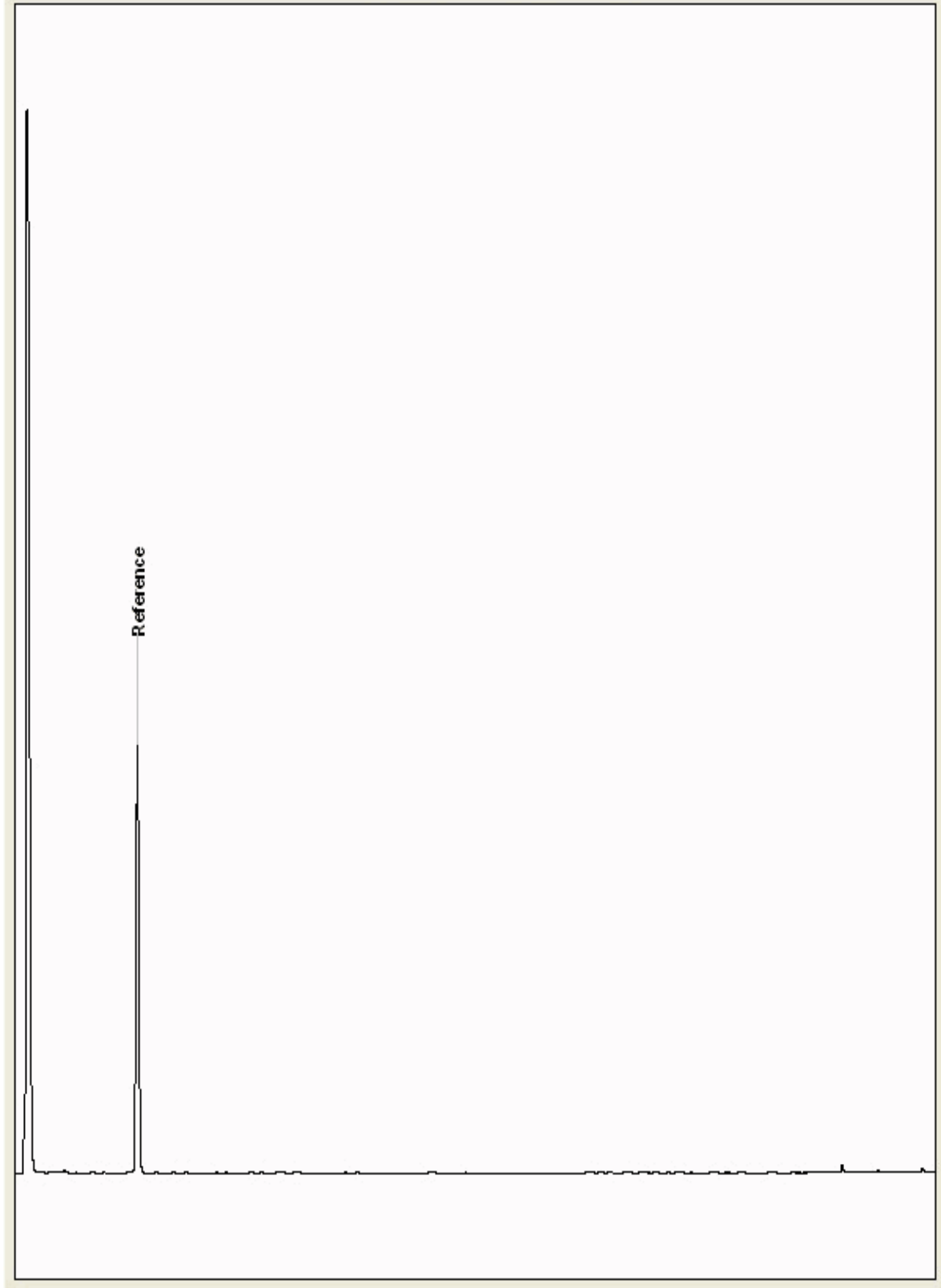
Chromatogram

Analysis: GRO by GC-FID (S)
19363363

Sample No :
Sample ID : BH207

19,363,363Depth :4.00 - 5.00

19363363_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

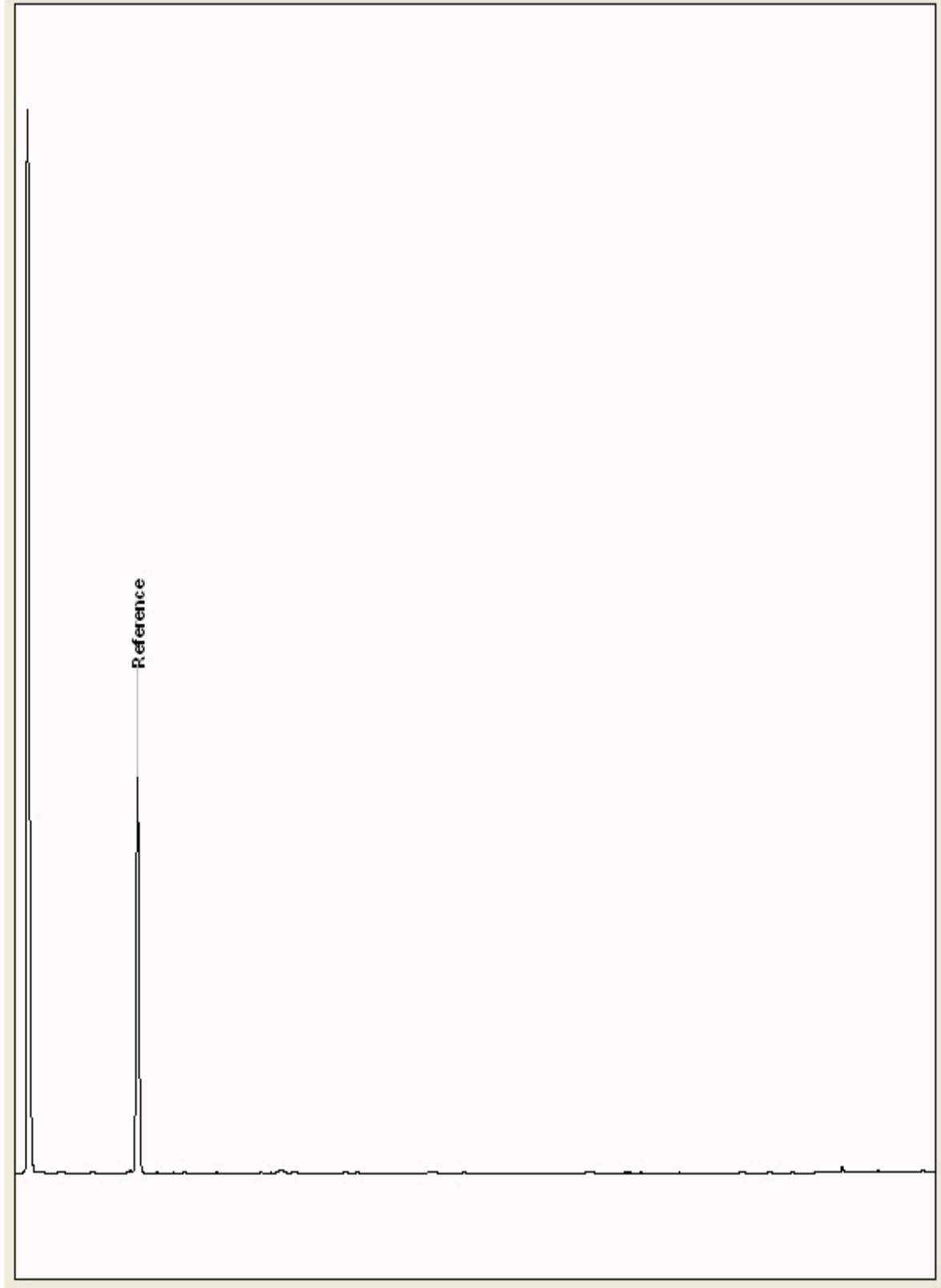
Chromatogram

Analysis: GRO by GC-FID (S)
19363374

Sample No :
Sample ID : BH208

19,363,374Depth :3.00 - 4.00

19363374_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

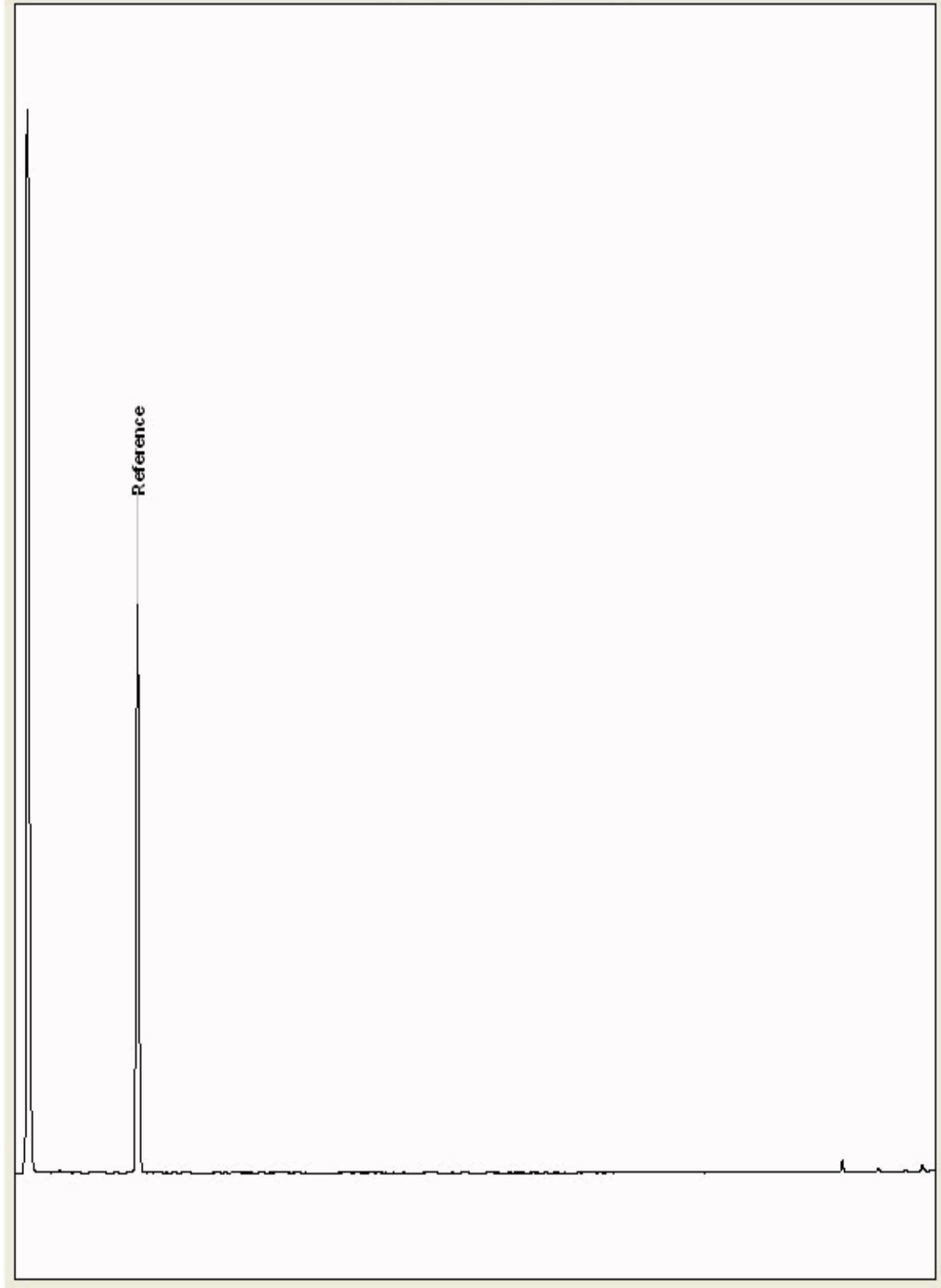
Chromatogram

Analysis: GRO by GC-FID (S)
19363384

Sample No :
Sample ID : BH206

19,363,384 **Depth :** 7.00 - 8.00

19363384_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

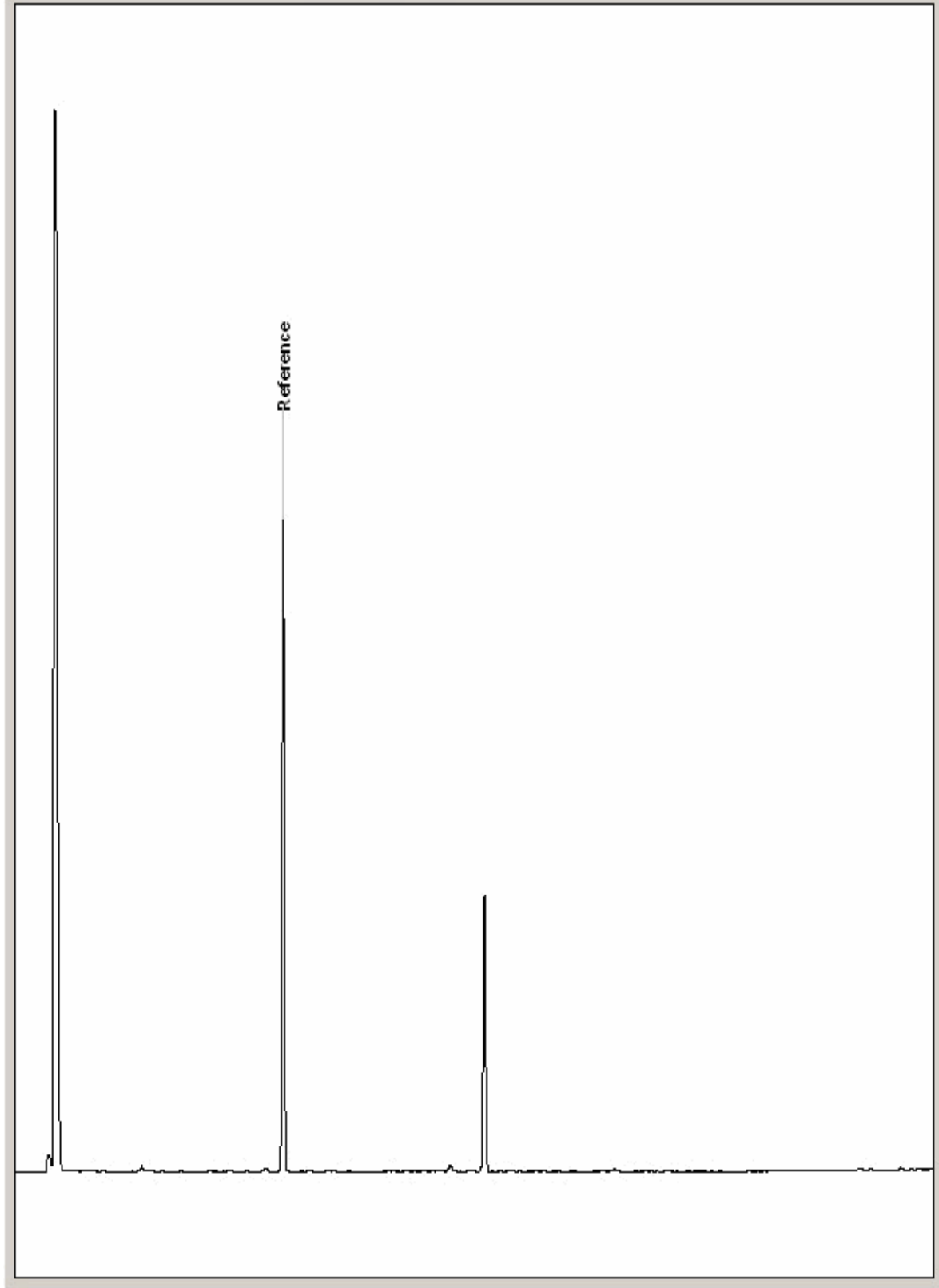
Chromatogram

Analysis: GRO by GC-FID (S)
19370019

Sample No :
Sample ID : BH221

19,370,019 Depth : 6.00 - 7.00

19370019_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

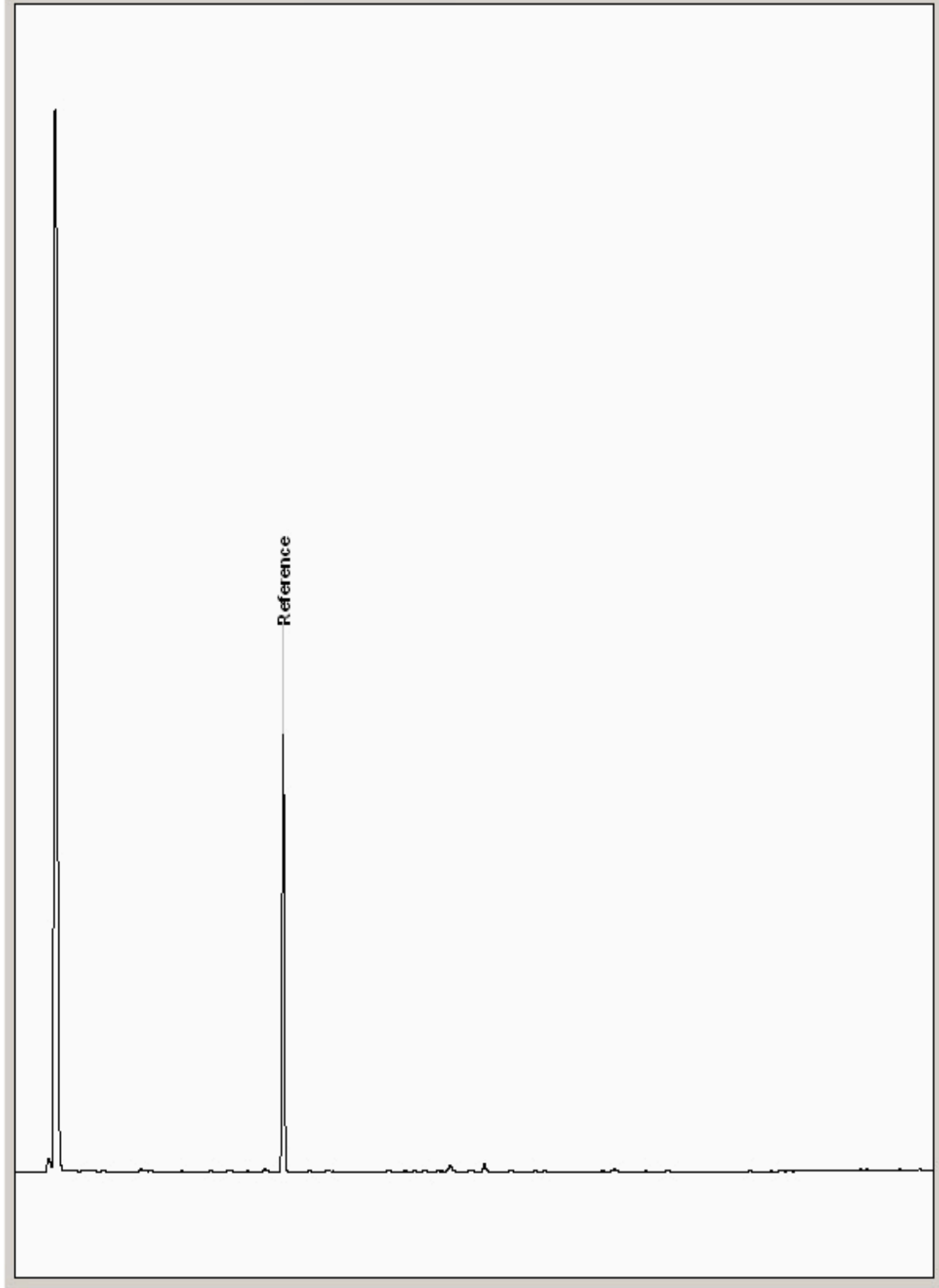
Chromatogram

Analysis: GRO by GC-FID (S)
19370093

Sample No :
Sample ID : BH220

19,370,093Depth :4.00 - 5.00

19370093_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

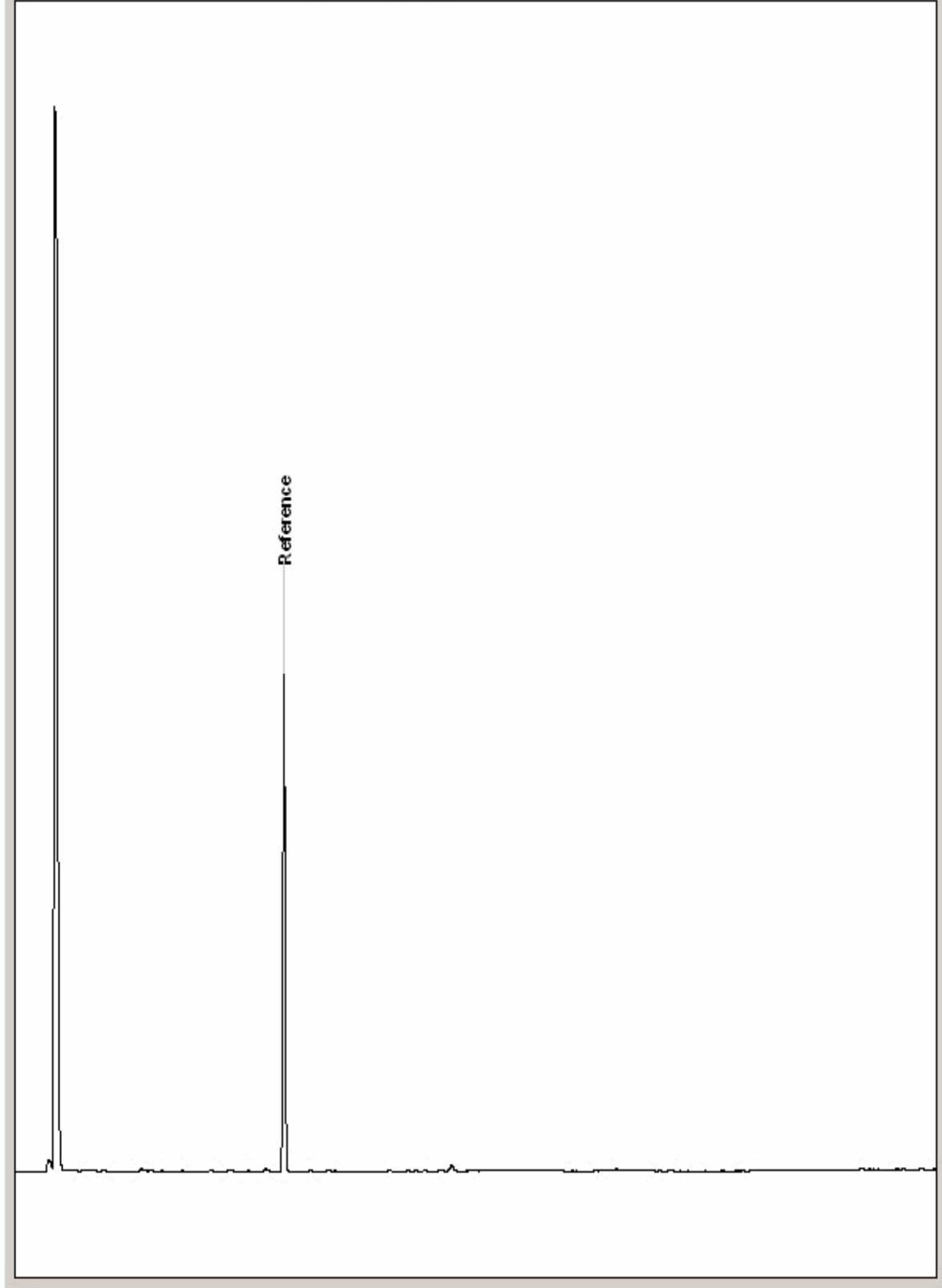
Chromatogram

Analysis: GRO by GC-FID (S)
19370311

Sample No :
Sample ID : BH209

19,370,311Depth :6.00 - 7.00

19370311_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

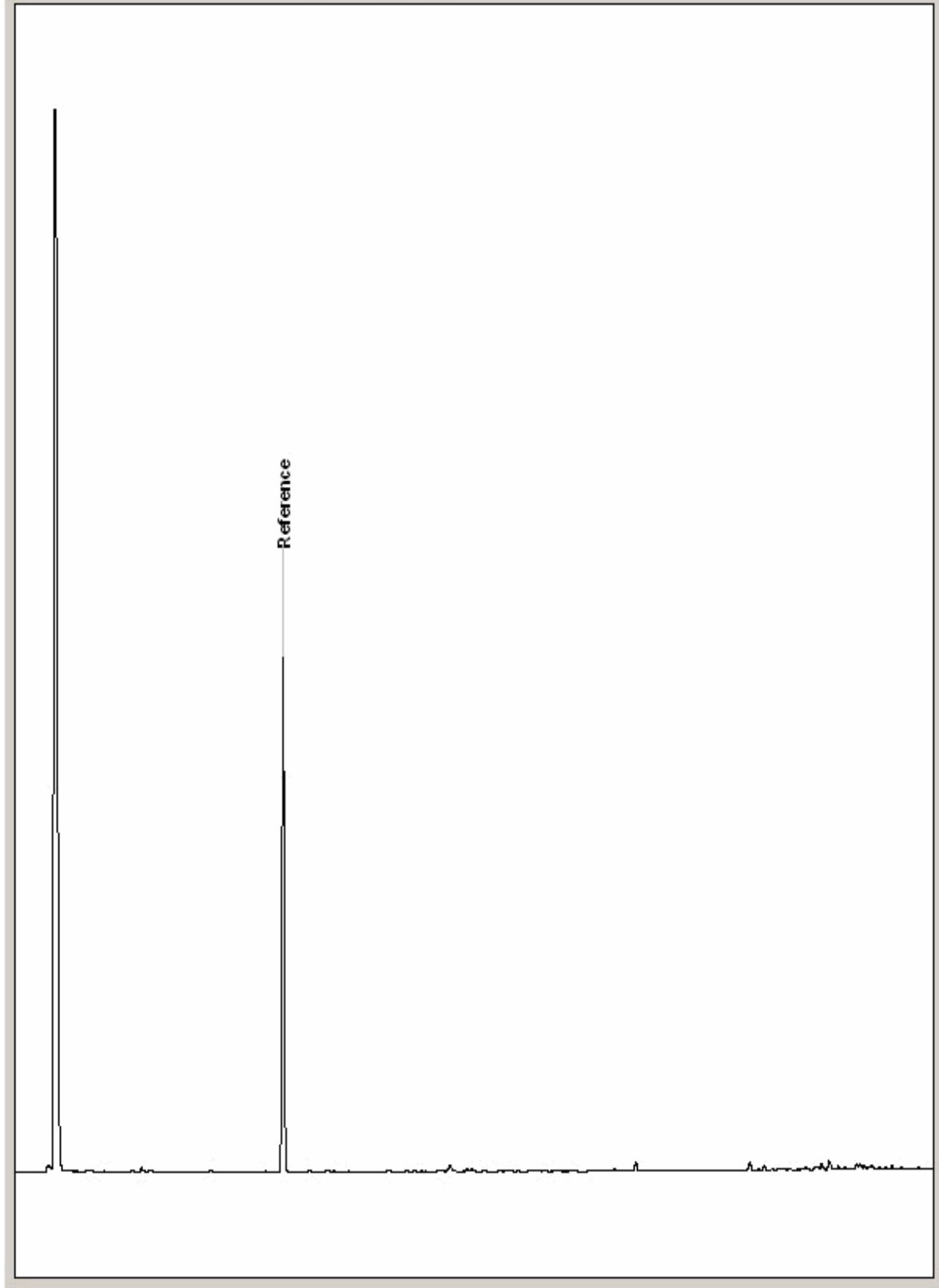
Chromatogram

Analysis: GRO by GC-FID (S)
19370415

Sample No :
Sample ID : BH220

19,370,415Depth :0.00 - 0.50

19370415_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

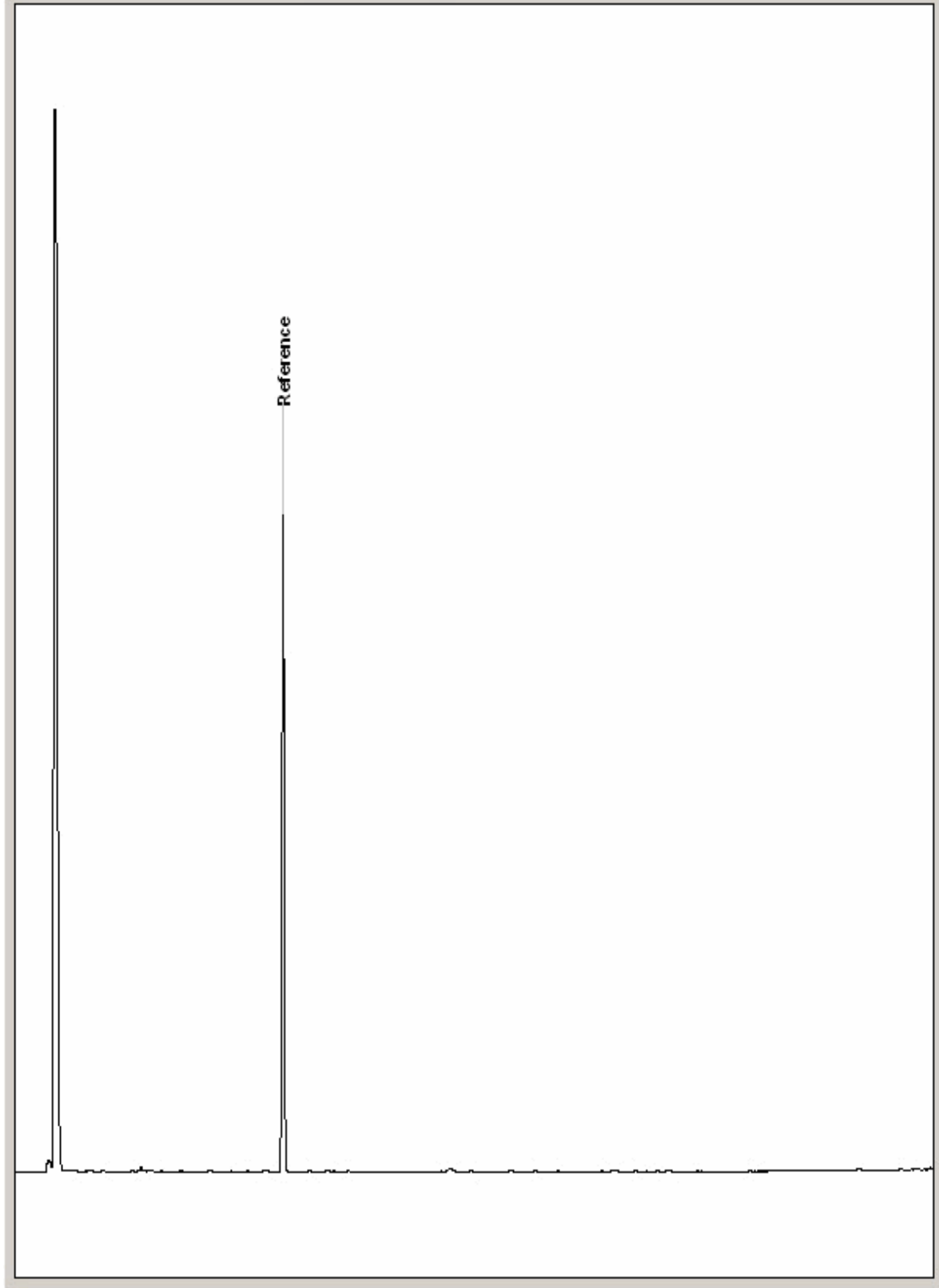
Chromatogram

Analysis: GRO by GC-FID (S)
19370509

Sample No :
Sample ID : BH220

19,370,509Depth :9.00 - 10.00

19370509_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

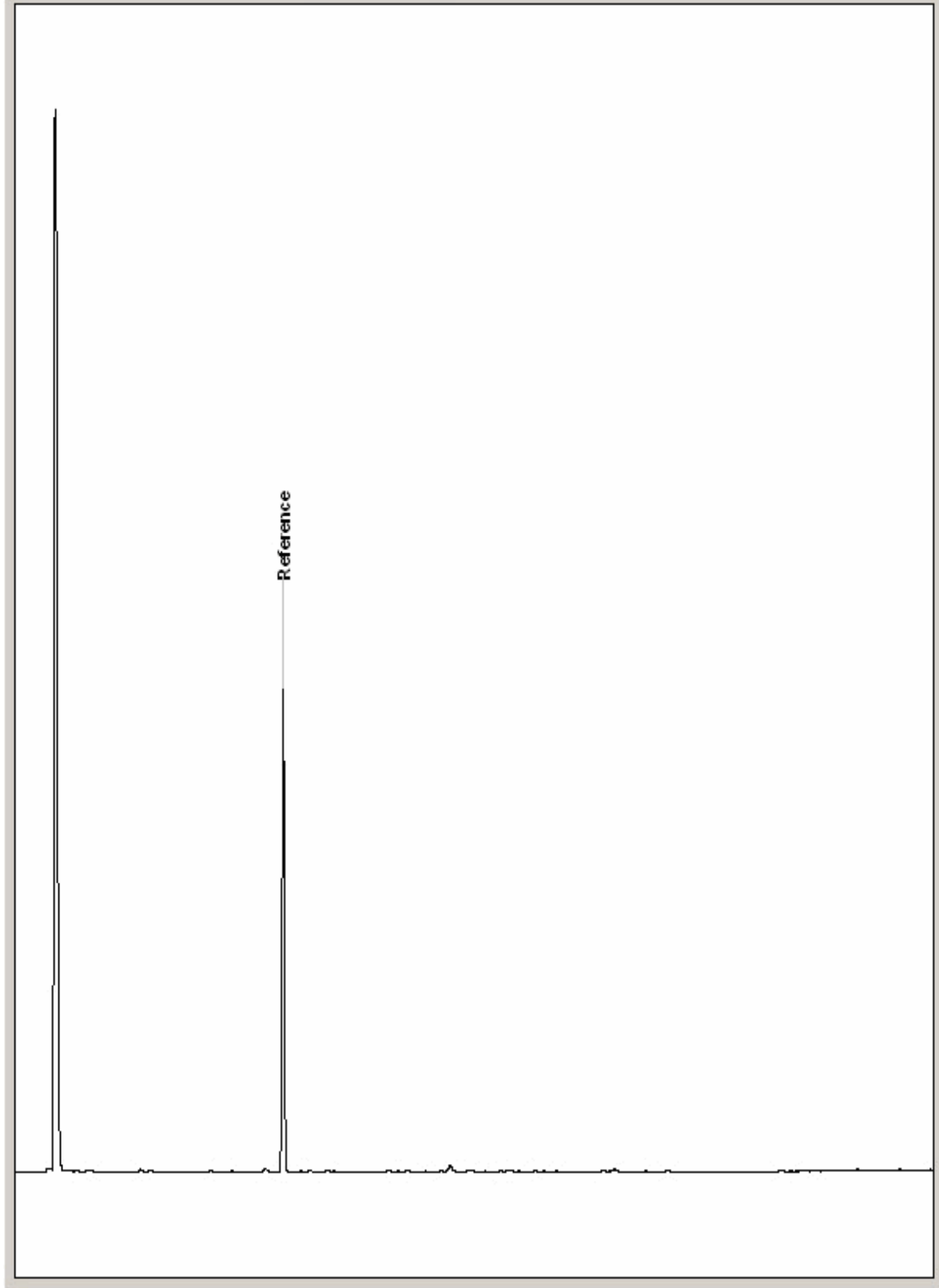
Chromatogram

Analysis: GRO by GC-FID (S)
19370649

Sample No :
Sample ID : BH221

19,370,649 **Depth :** 2.00 - 3.00

19370649_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

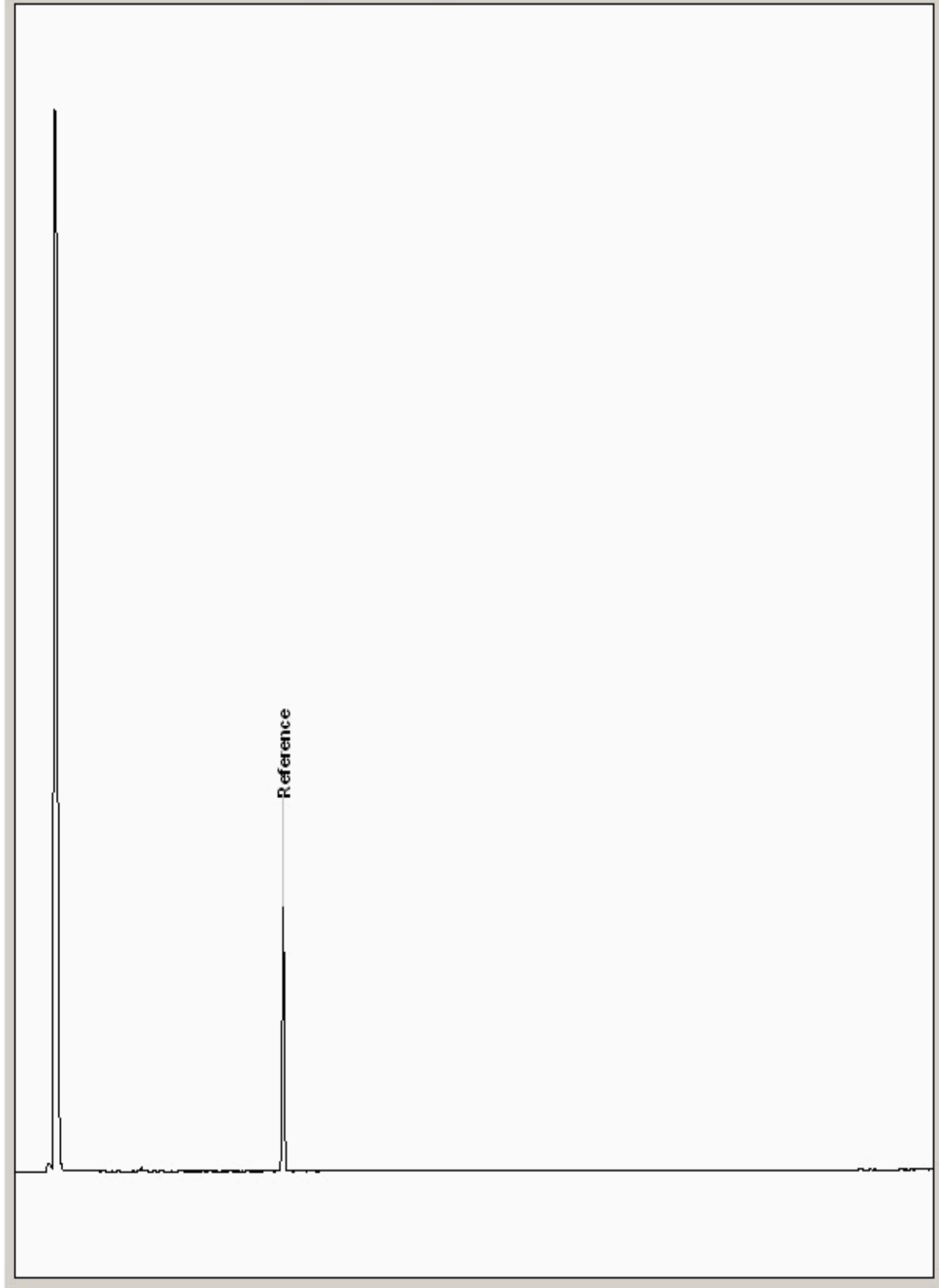
Chromatogram

Analysis: GRO by GC-FID (S)
19375151

Sample No :
Sample ID : BH206

19,375,151 **Depth :** 11.00 - 12.00

19375151_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

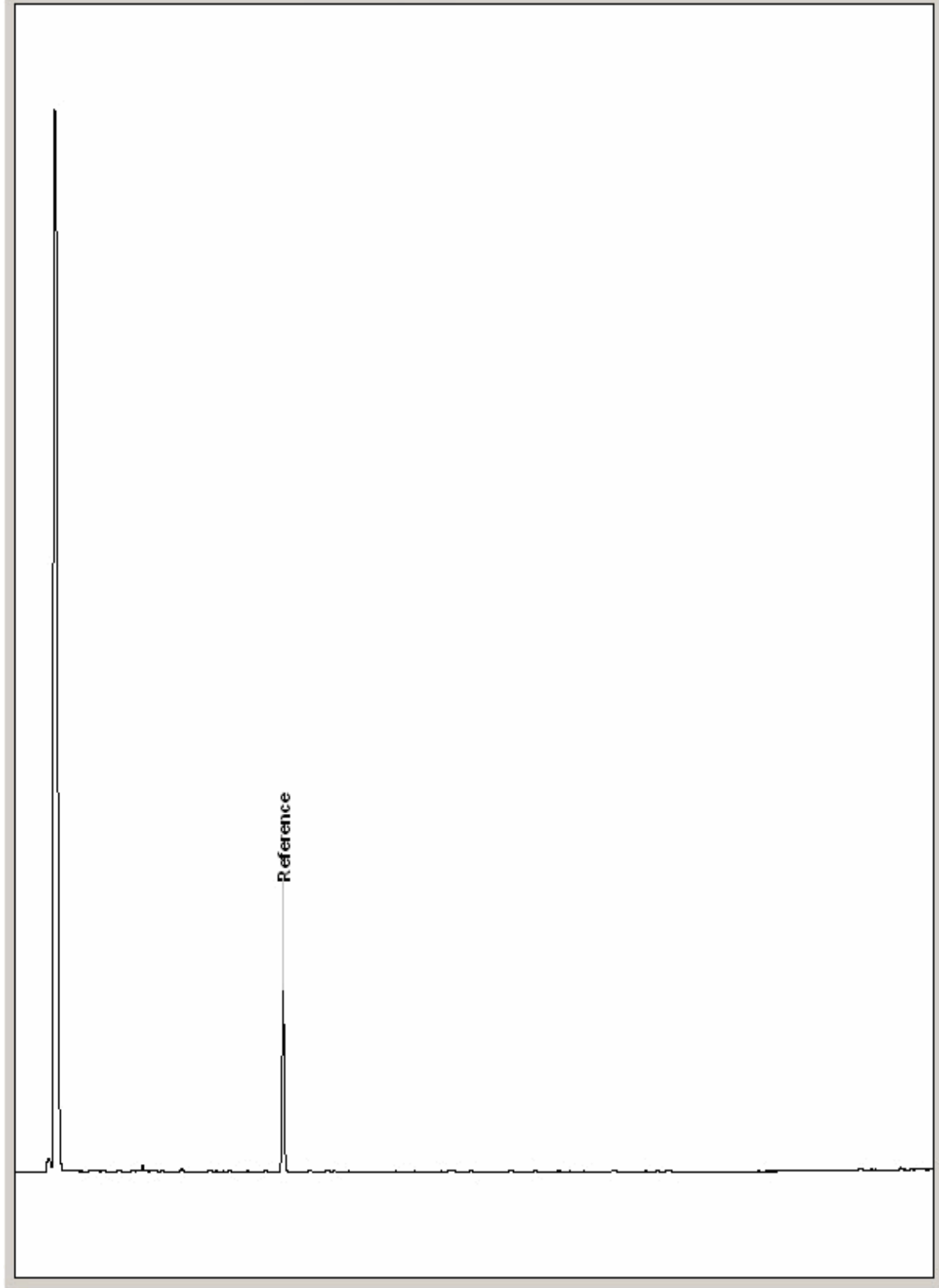
Chromatogram

Analysis: GRO by GC-FID (S)
19375161

Sample No :
Sample ID : BH207

19,375,161 Depth : 13.00 - 14.00

19375161_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

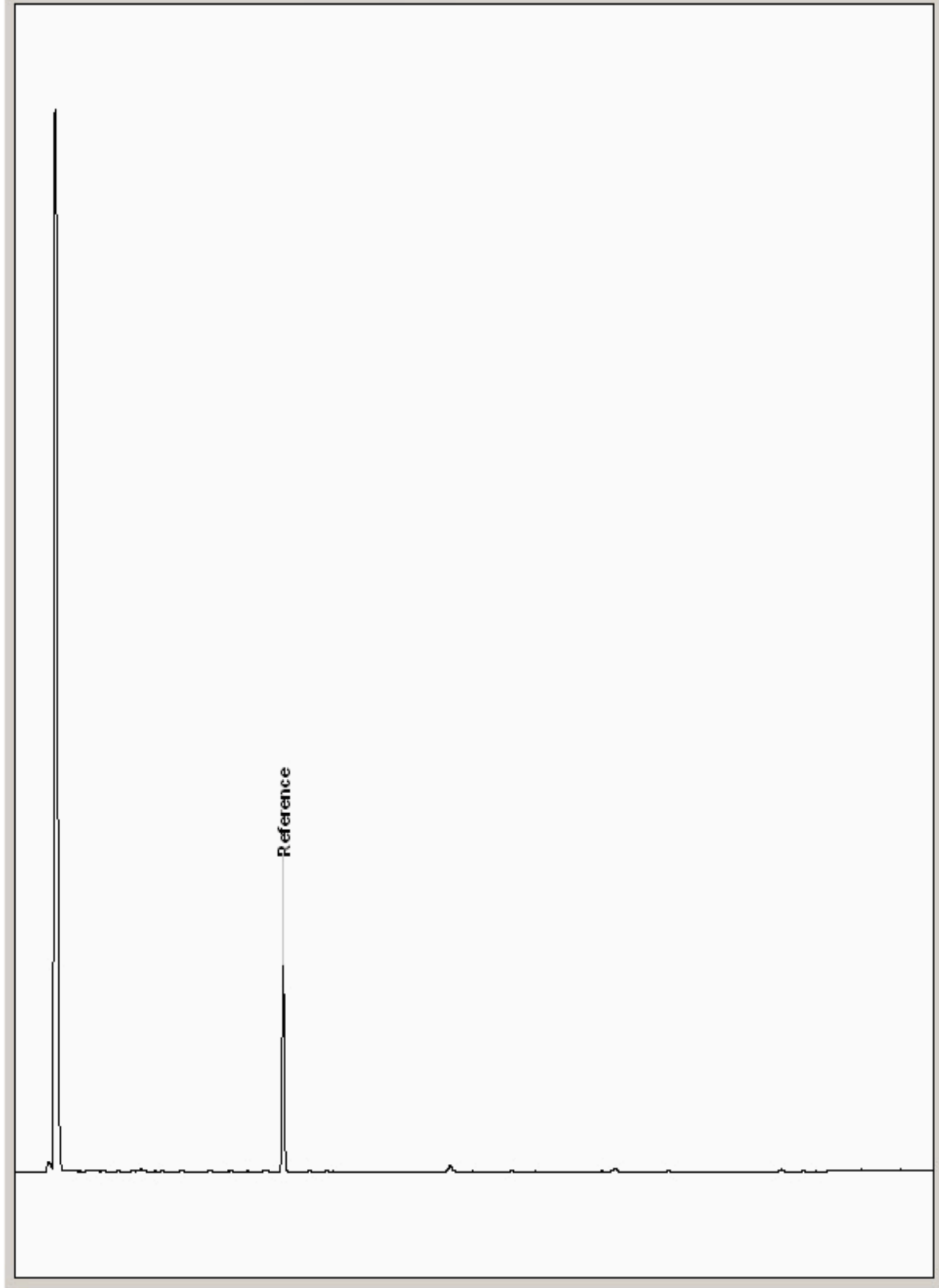
Chromatogram

Analysis: GRO by GC-FID (S)
19375172

Sample No :
Sample ID : BH207

19,375,172 Depth : 16.00 - 17.00

19375172_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

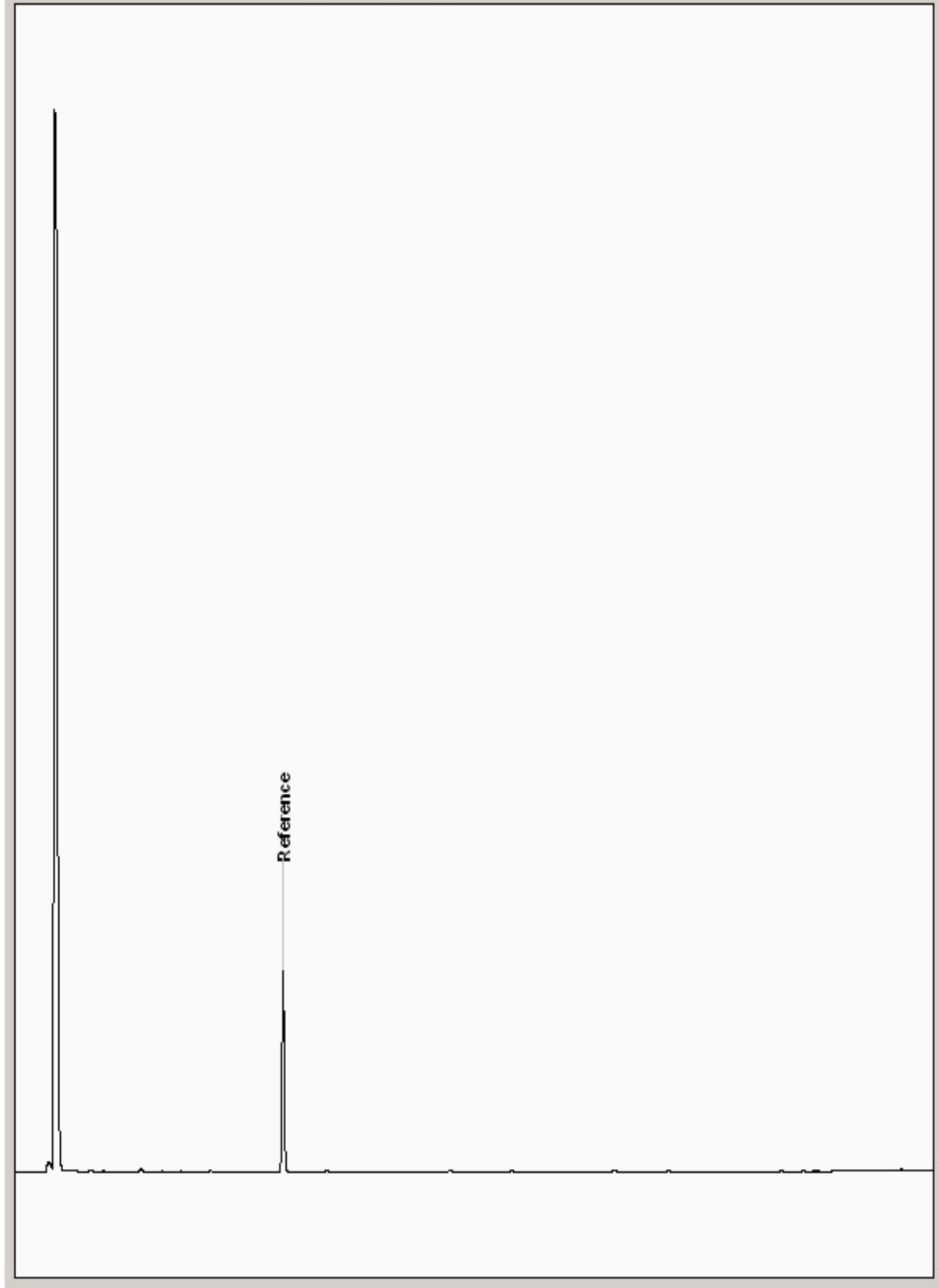
Chromatogram

Analysis: GRO by GC-FID (S)
19375176

Sample No :
Sample ID : BH207

19,375,176Depth : 11.00 - 12.00

19375176_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

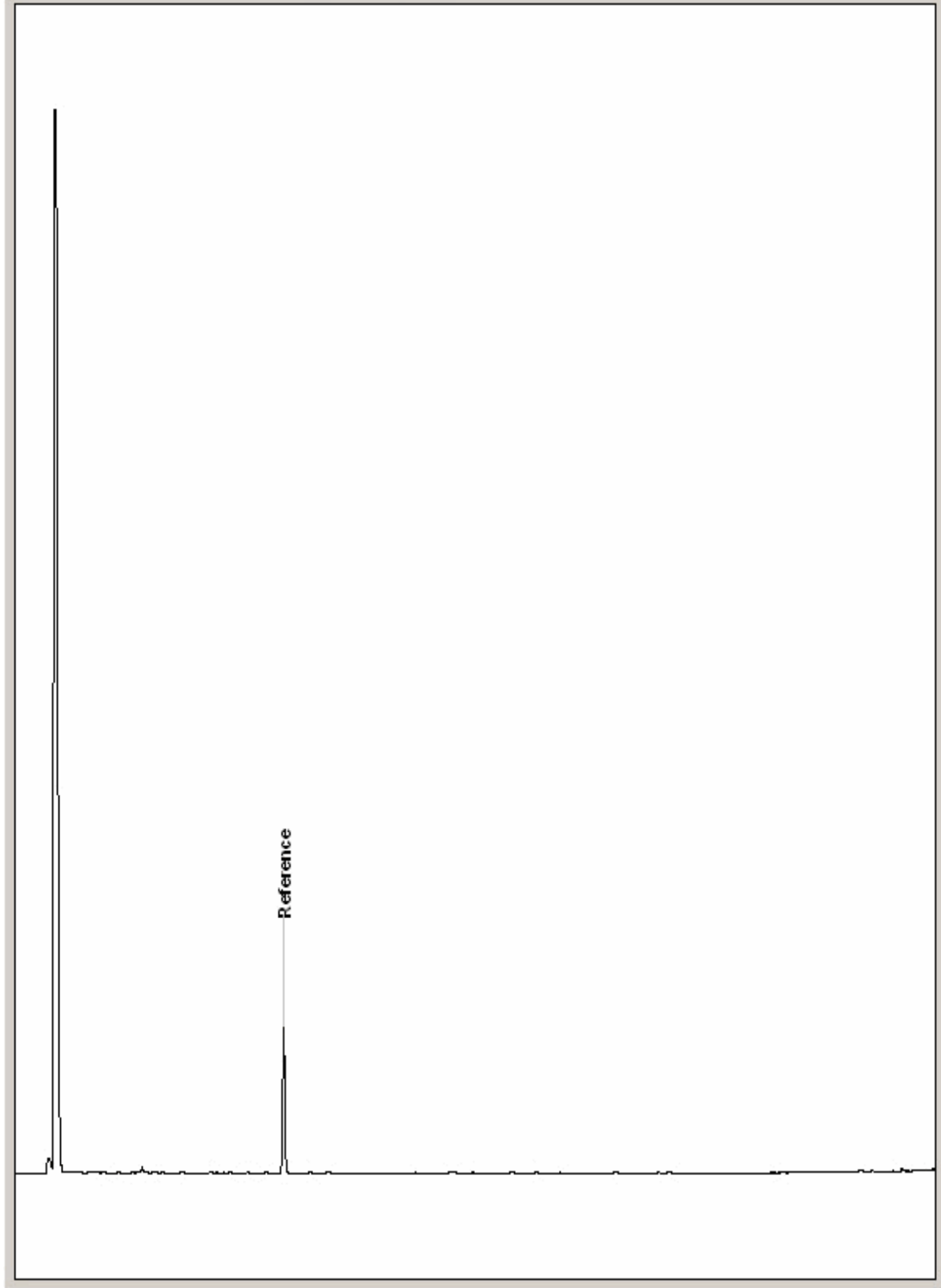
Chromatogram

Analysis: GRO by GC-FID (S)
19375187

Sample No :
Sample ID : BH206

19,375,187Depth : 14.00 - 15.00

19375187_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

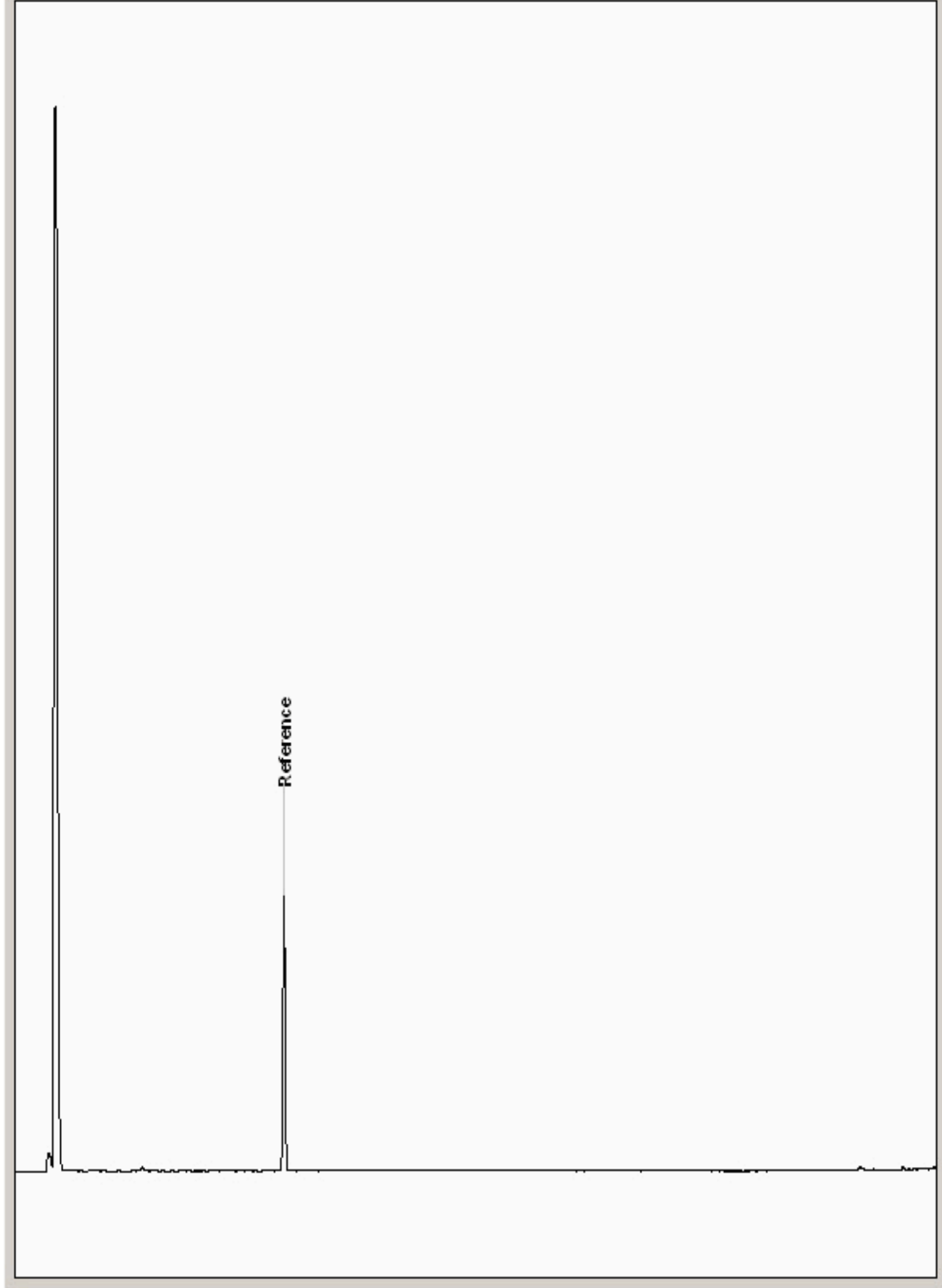
Chromatogram

Analysis: GRO by GC-FID (S)
19375200

Sample No :
Sample ID : BH207

19,375,200Depth : 15.00 - 16.00

19375200_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

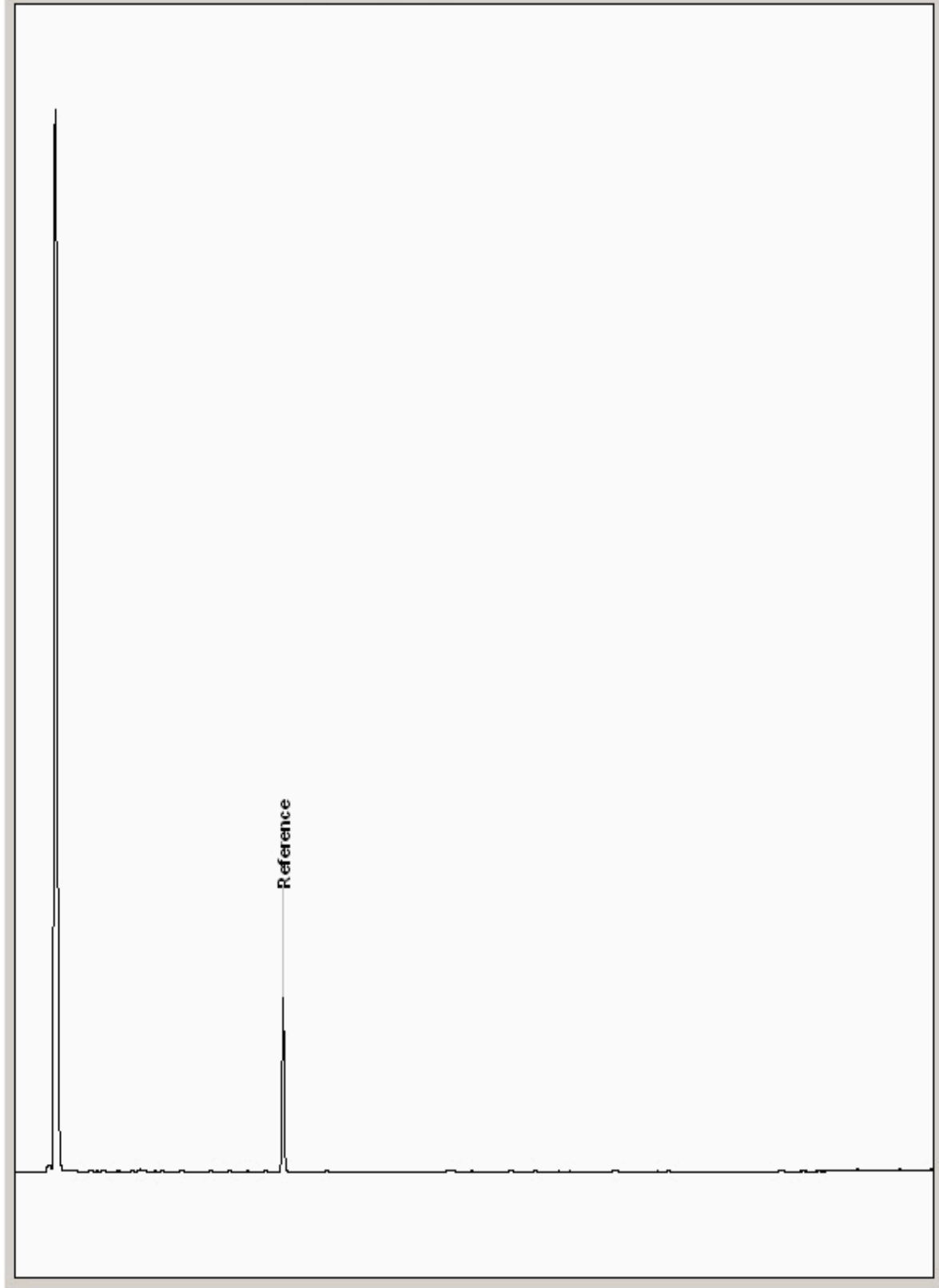
Chromatogram

Analysis: GRO by GC-FID (S)
19375217

Sample No :
Sample ID : BH207

19,375,217 **Depth :** 12.00 - 13.00

19375217_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

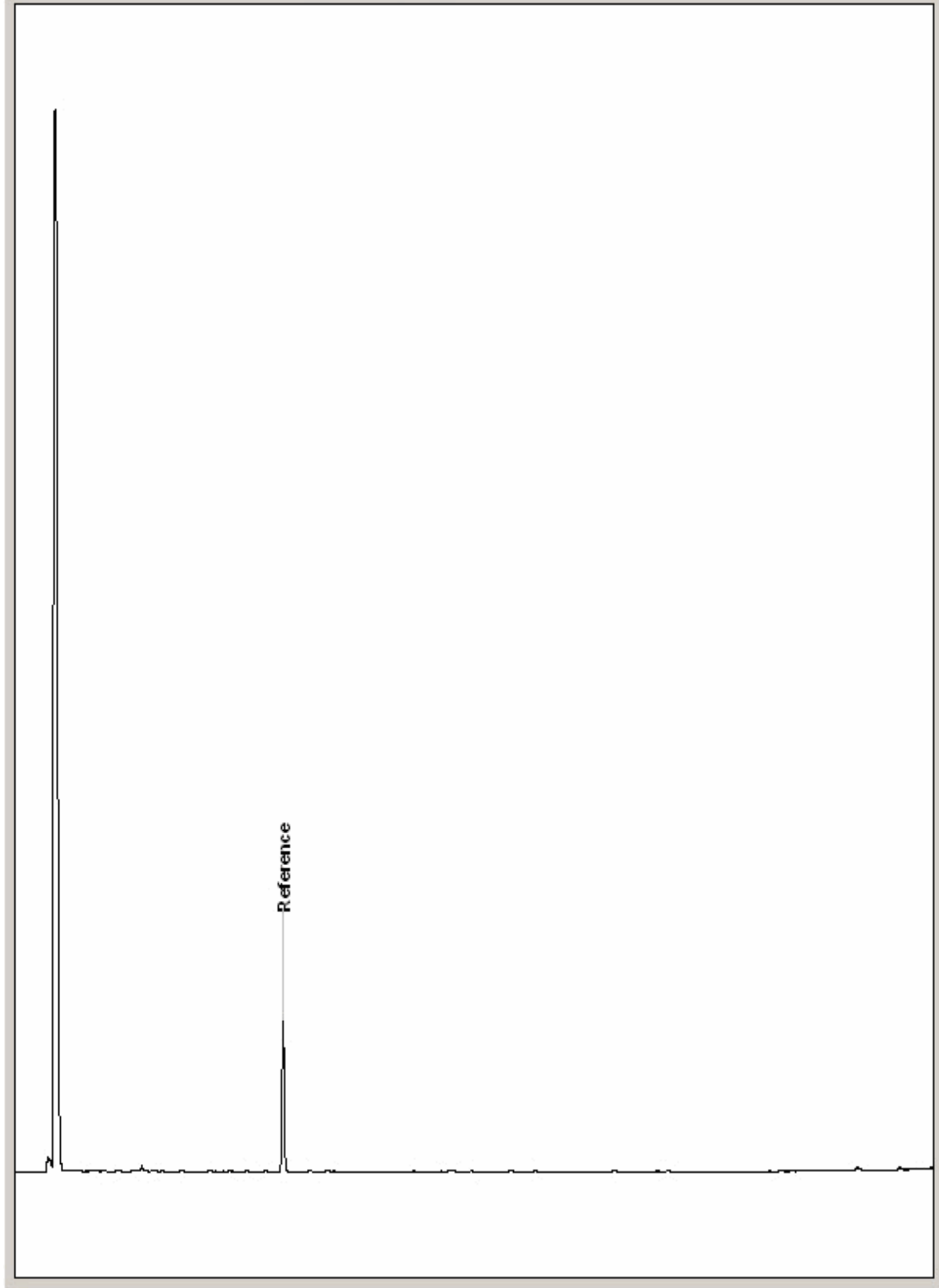
Chromatogram

Analysis: GRO by GC-FID (S)
19375244

Sample No :
Sample ID : BH206

19,375,244Depth : 15.00 - 16.00

19375244_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

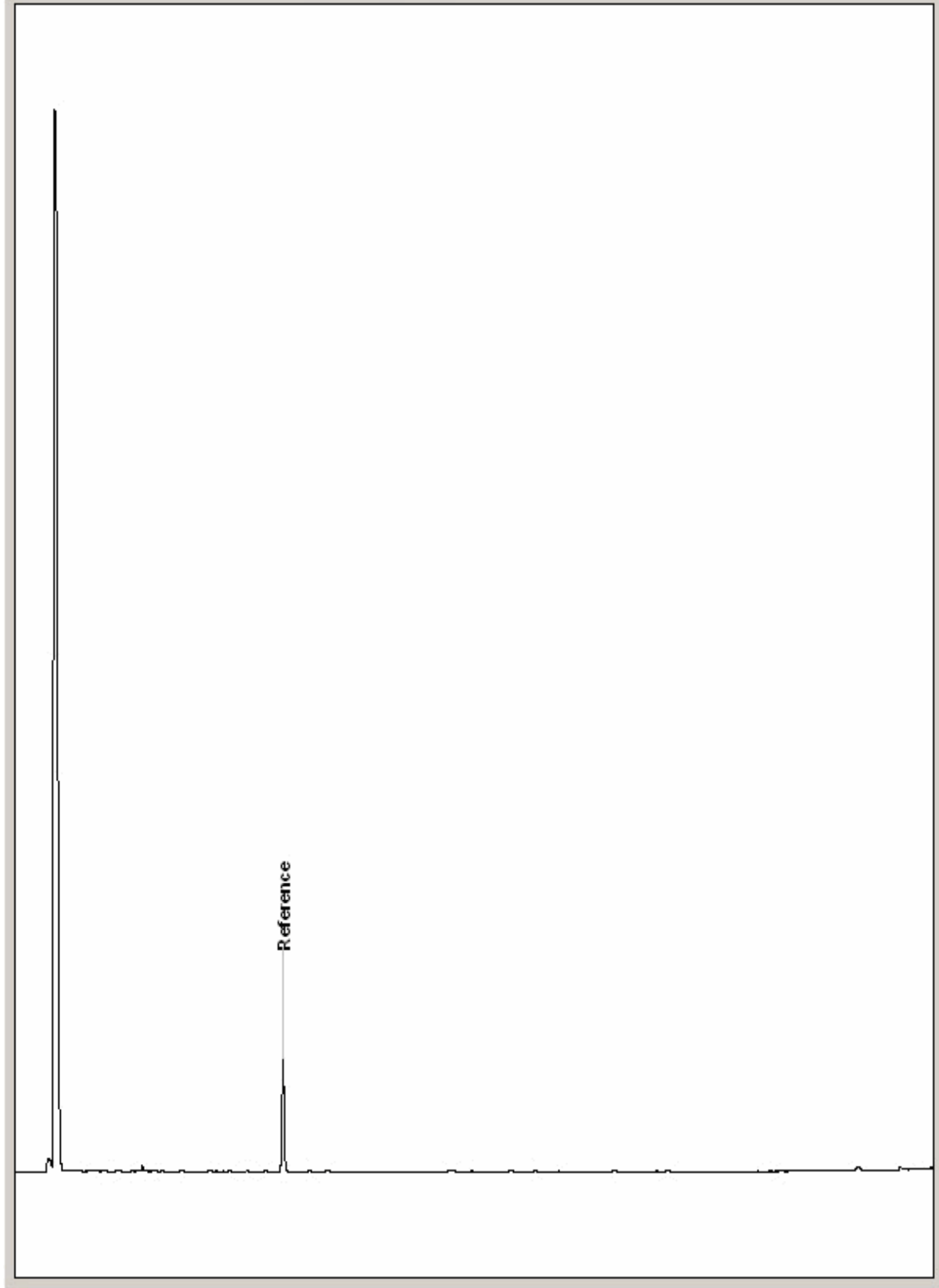
Chromatogram

Analysis: GRO by GC-FID (S)
19375271

Sample No :
Sample ID : BH206

19,375,271 Depth : 13.00 - 14.00

19375271_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

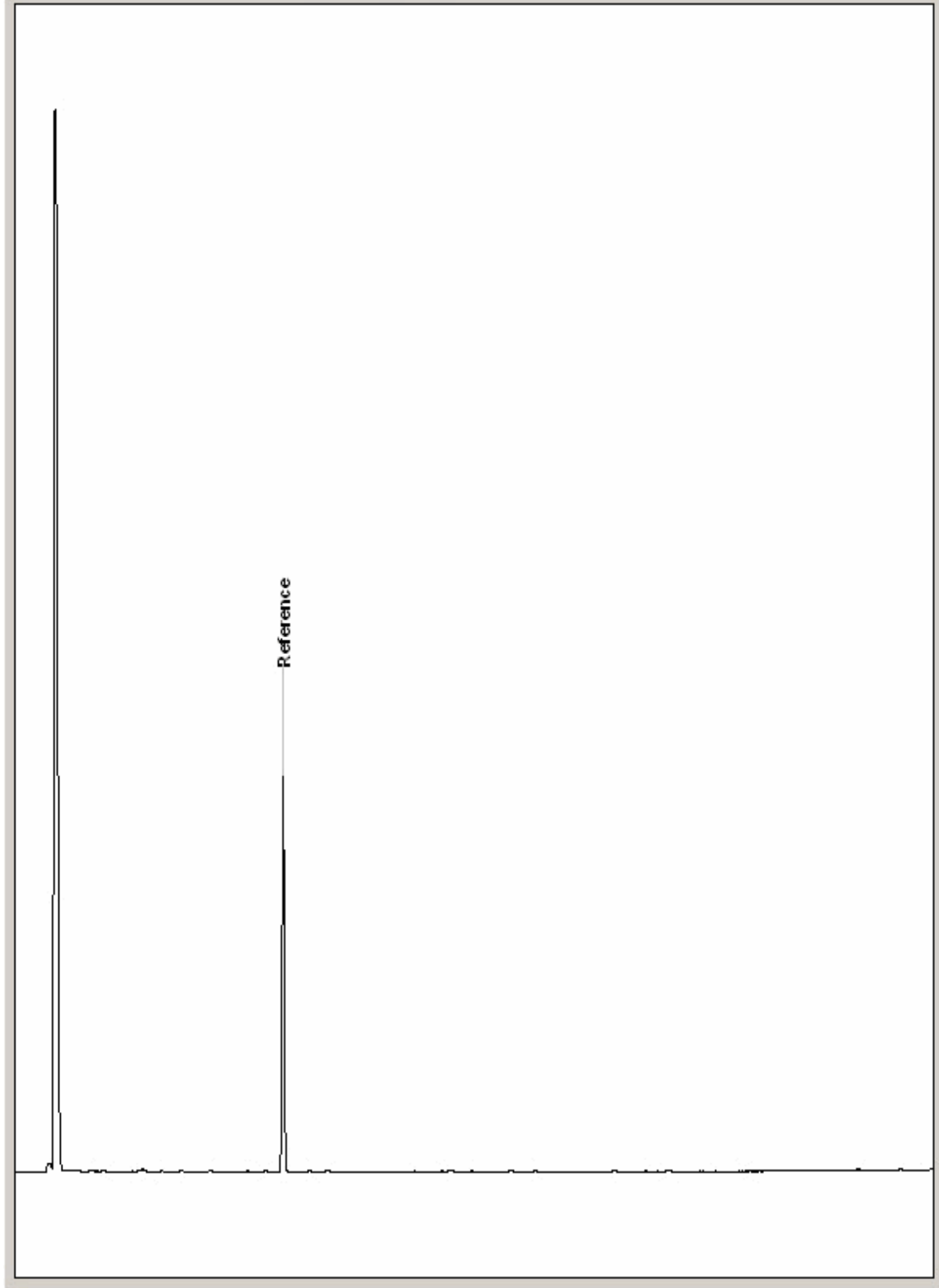
Chromatogram

Analysis: GRO by GC-FID (S)
19375477

Sample No :
Sample ID : BH220

19,375,477Depth : 11.00 - 12.00

19375477_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

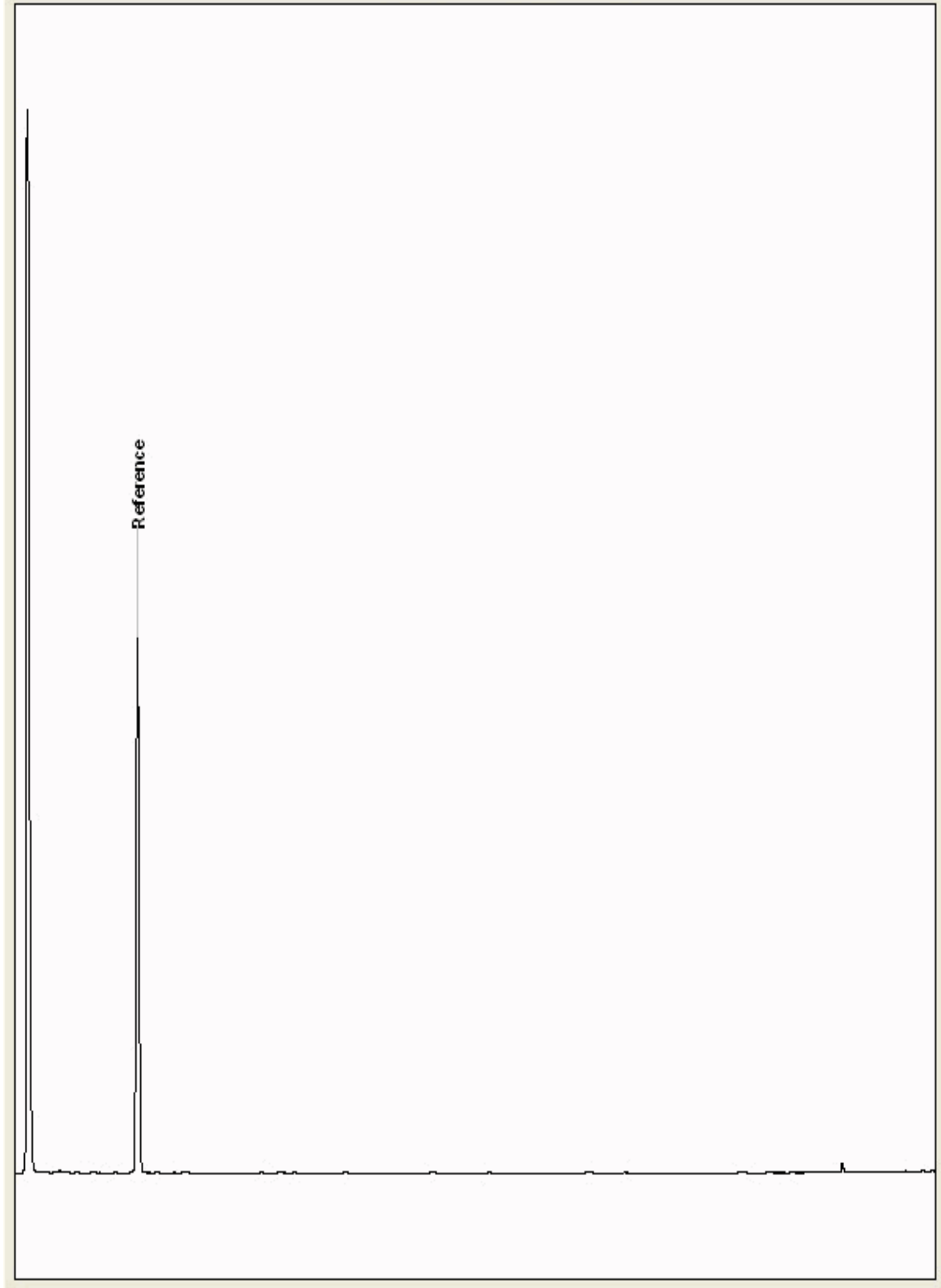
Chromatogram

Analysis: GRO by GC-FID (S)
19376339

Sample No :
Sample ID : BH209

19,376,339**Depth :** 9.00 - 10.00

19376339_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

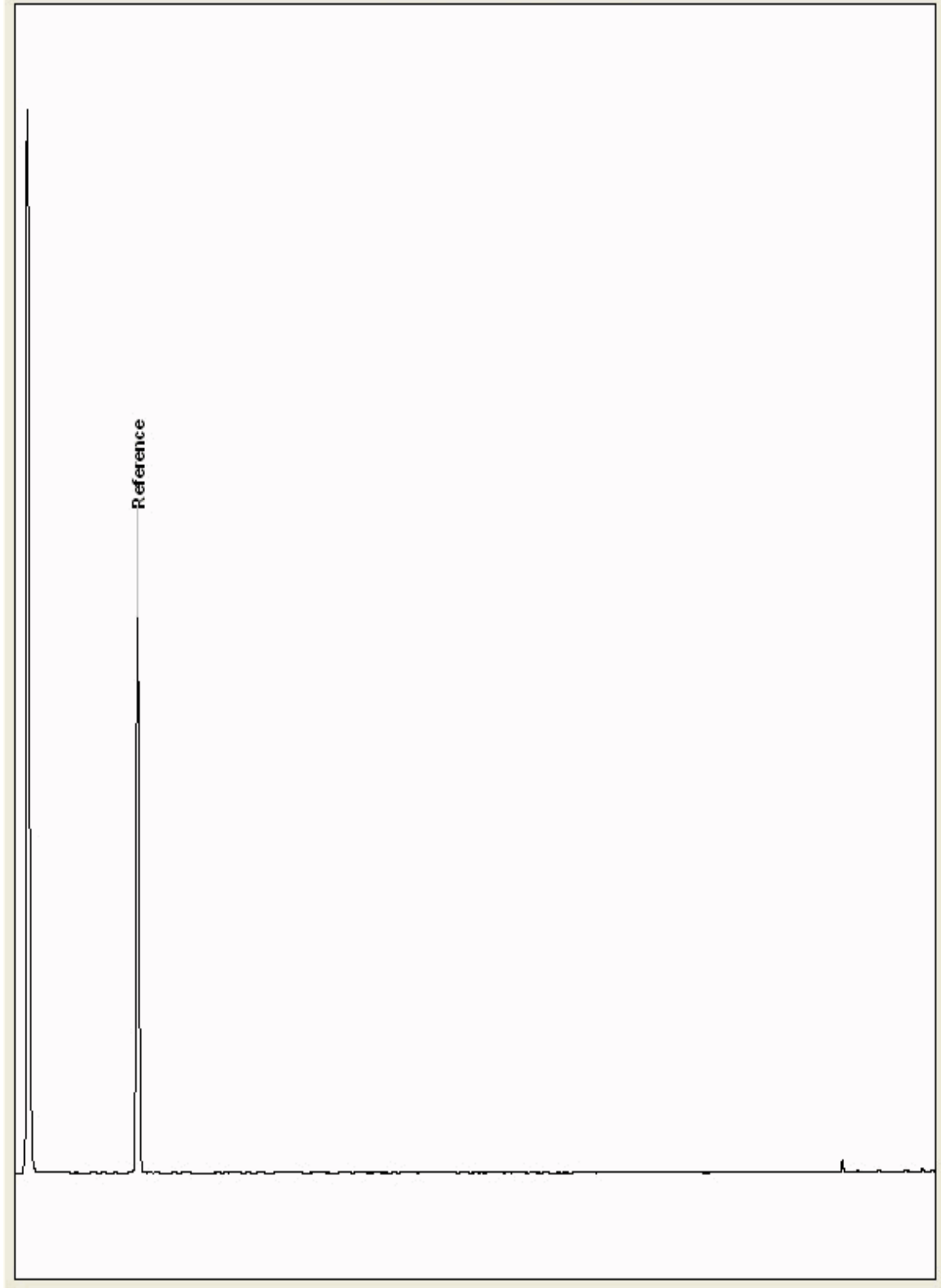
Chromatogram

Analysis: GRO by GC-FID (S)
19376573

Sample No :
Sample ID : BH221

19,376,573 Depth : 0.00 - 0.50

19376573_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

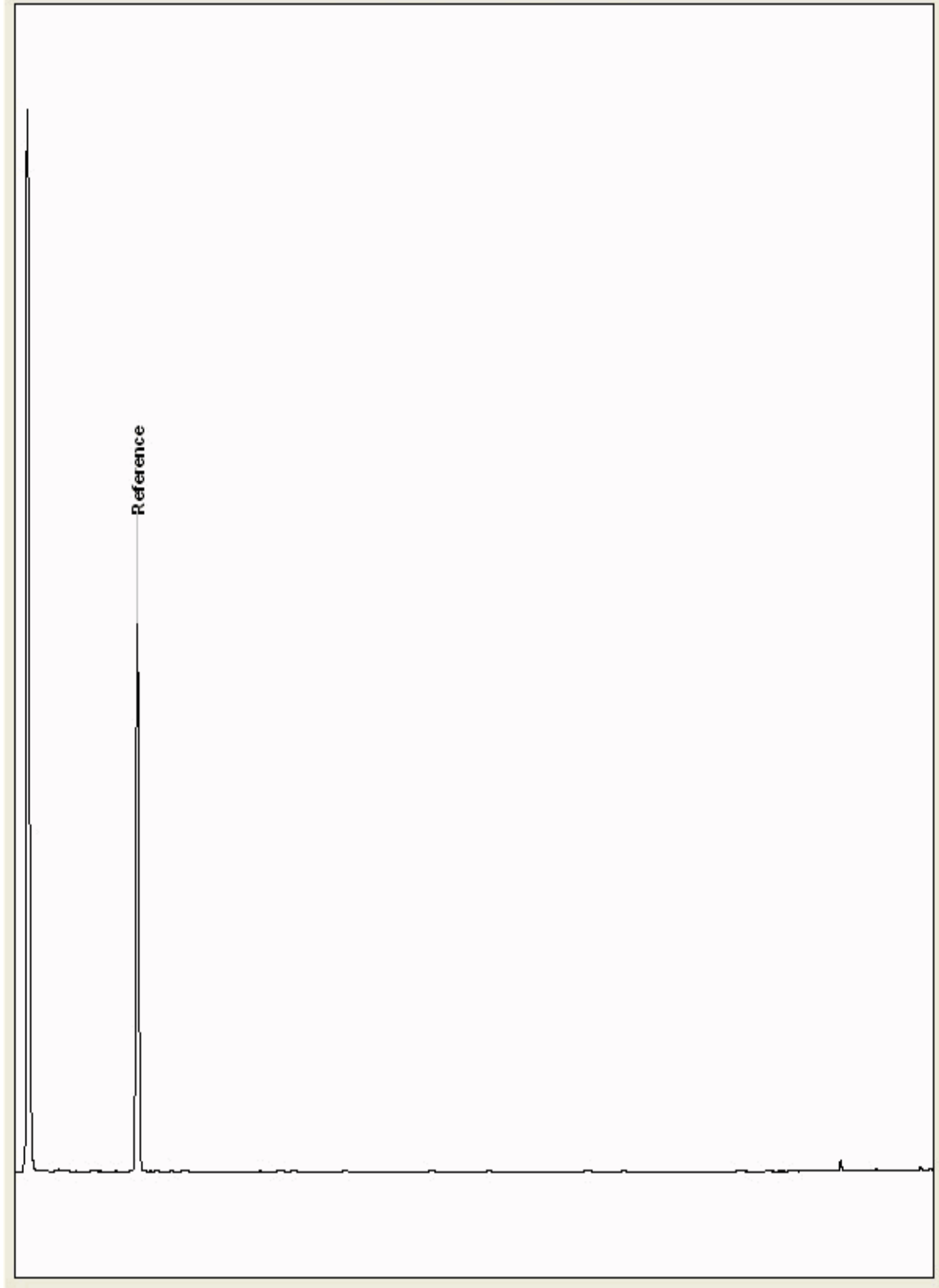
Chromatogram

Analysis: GRO by GC-FID (S)
19377000

Sample No :
Sample ID : BH208

19,377,000Depth : 10.00 - 11.00

19377000_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

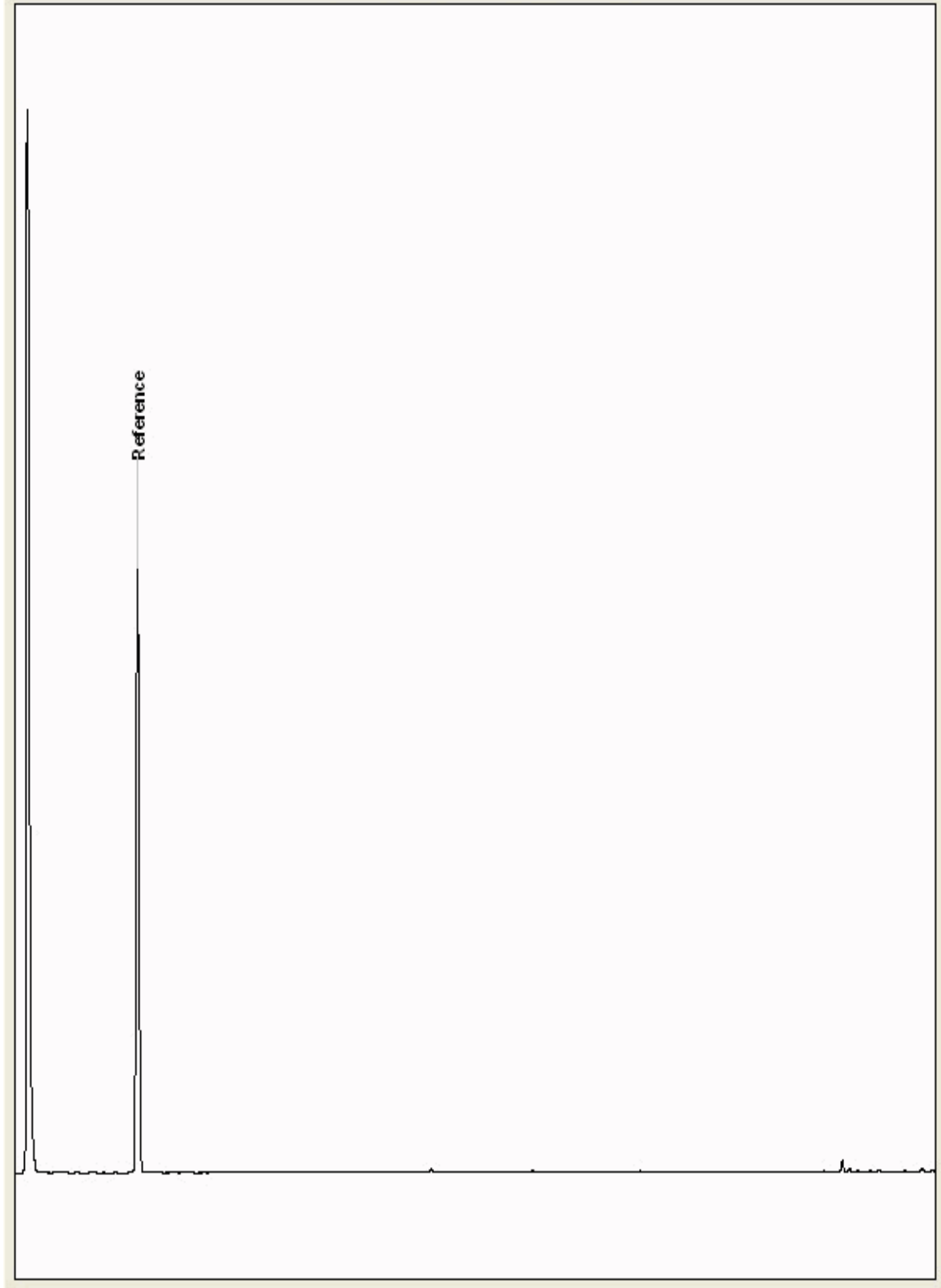
Chromatogram

Analysis: GRO by GC-FID (S)
19377044

Sample No :
Sample ID : BH208

19,377,044Depth :0.50 - 1.00

19377044_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

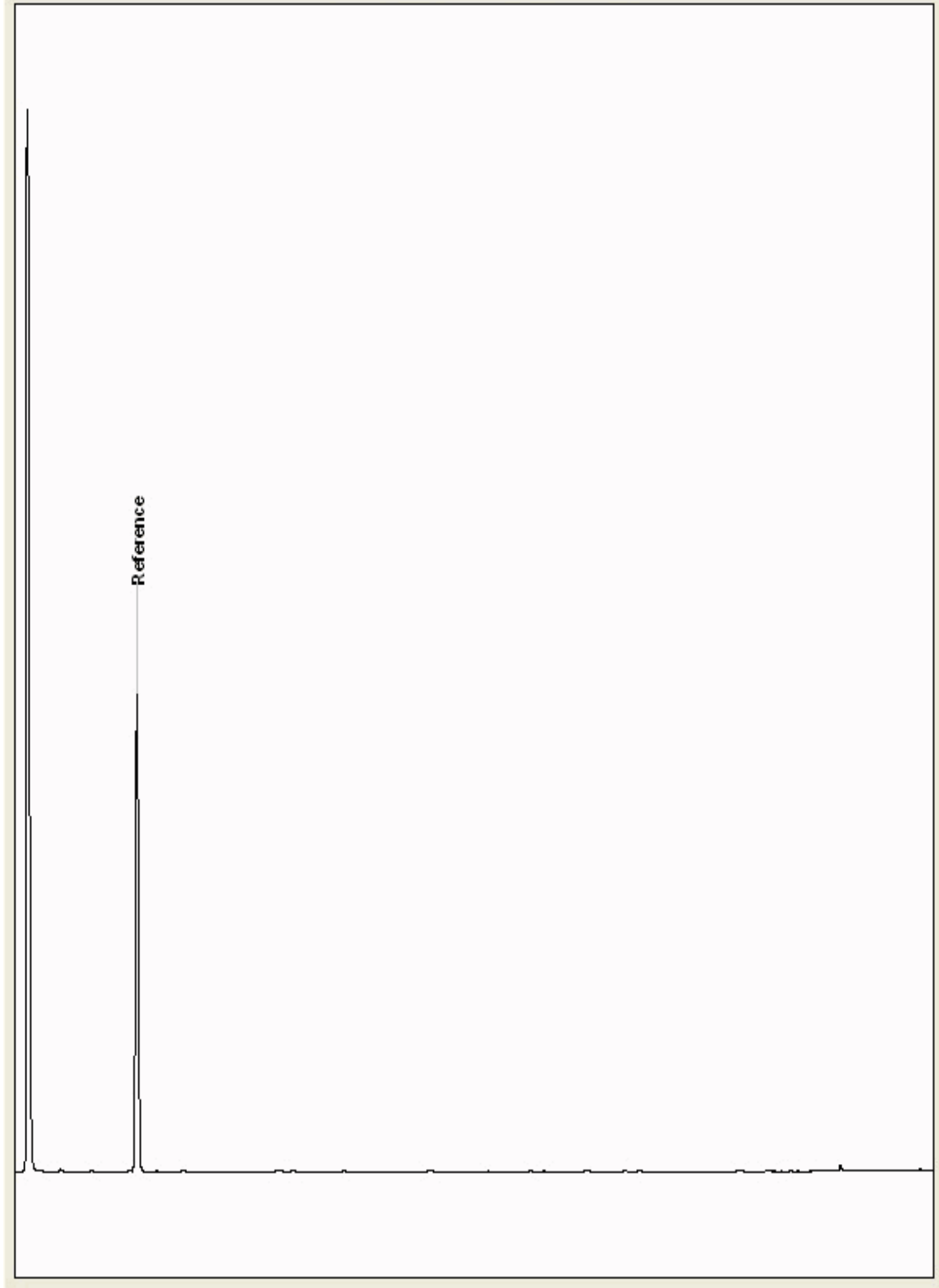
Chromatogram

Analysis: GRO by GC-FID (S)
19377074

Sample No :
Sample ID : BH208

19,377,074 Depth : 1.00 - 2.00

19377074_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

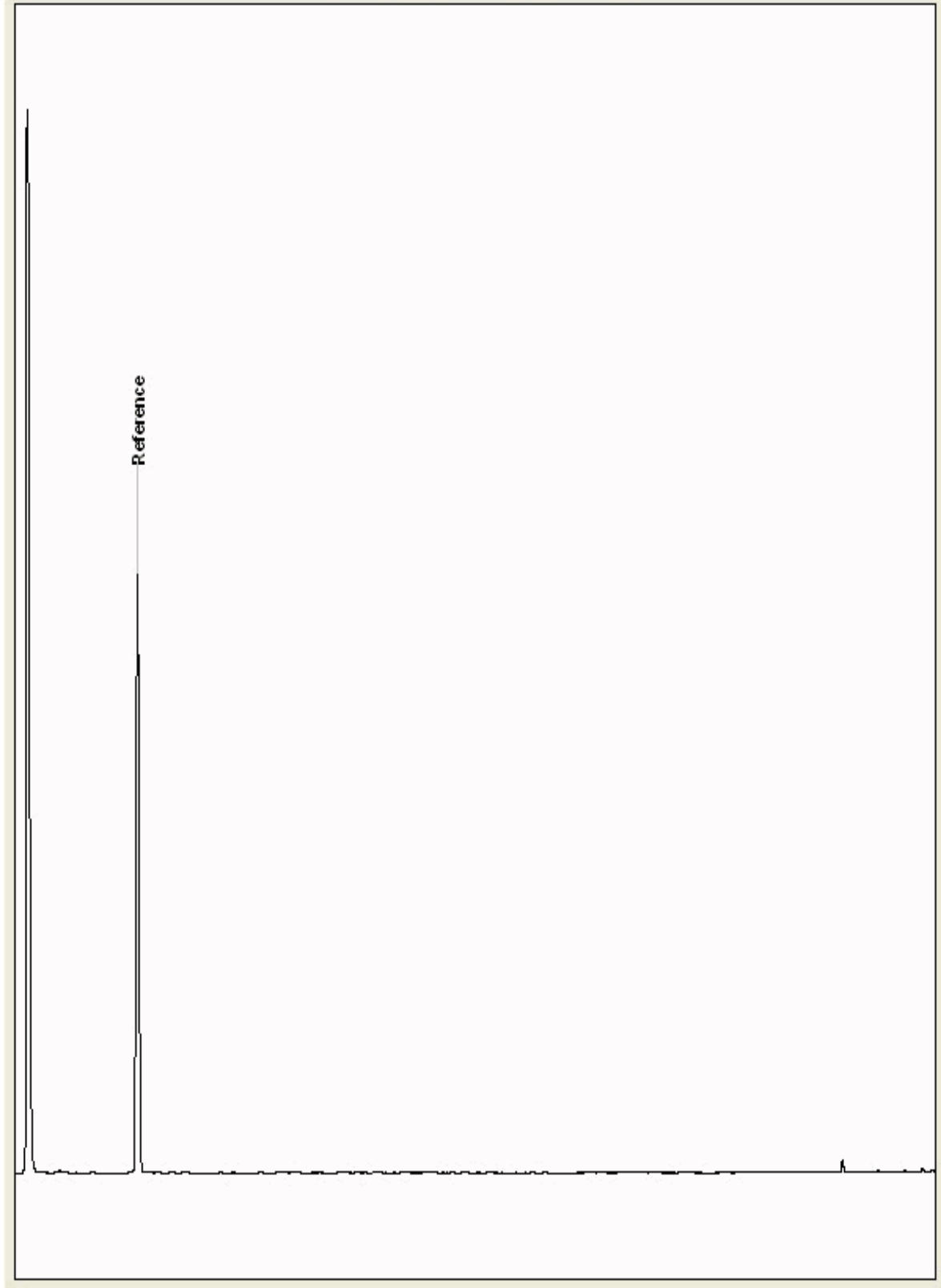
Chromatogram

Analysis: GRO by GC-FID (S)
19377099

Sample No :
Sample ID : BH208

19,377,099Depth :2.00 - 3.00

19377099_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

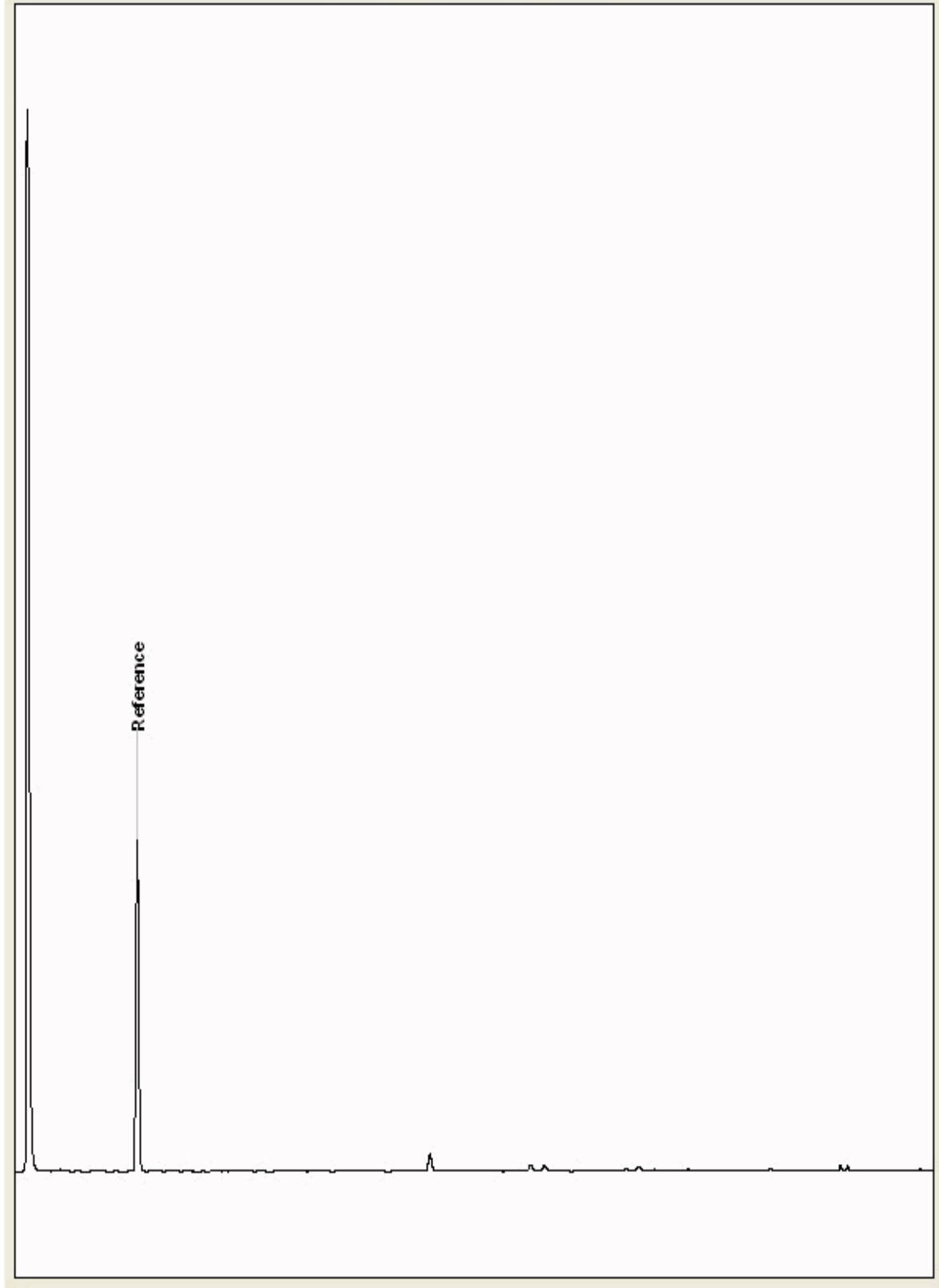
Chromatogram

Analysis: GRO by GC-FID (S)
19377185

Sample No :
Sample ID : BH208

19,377,185Depth :0.00 - 0.50

19377185_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

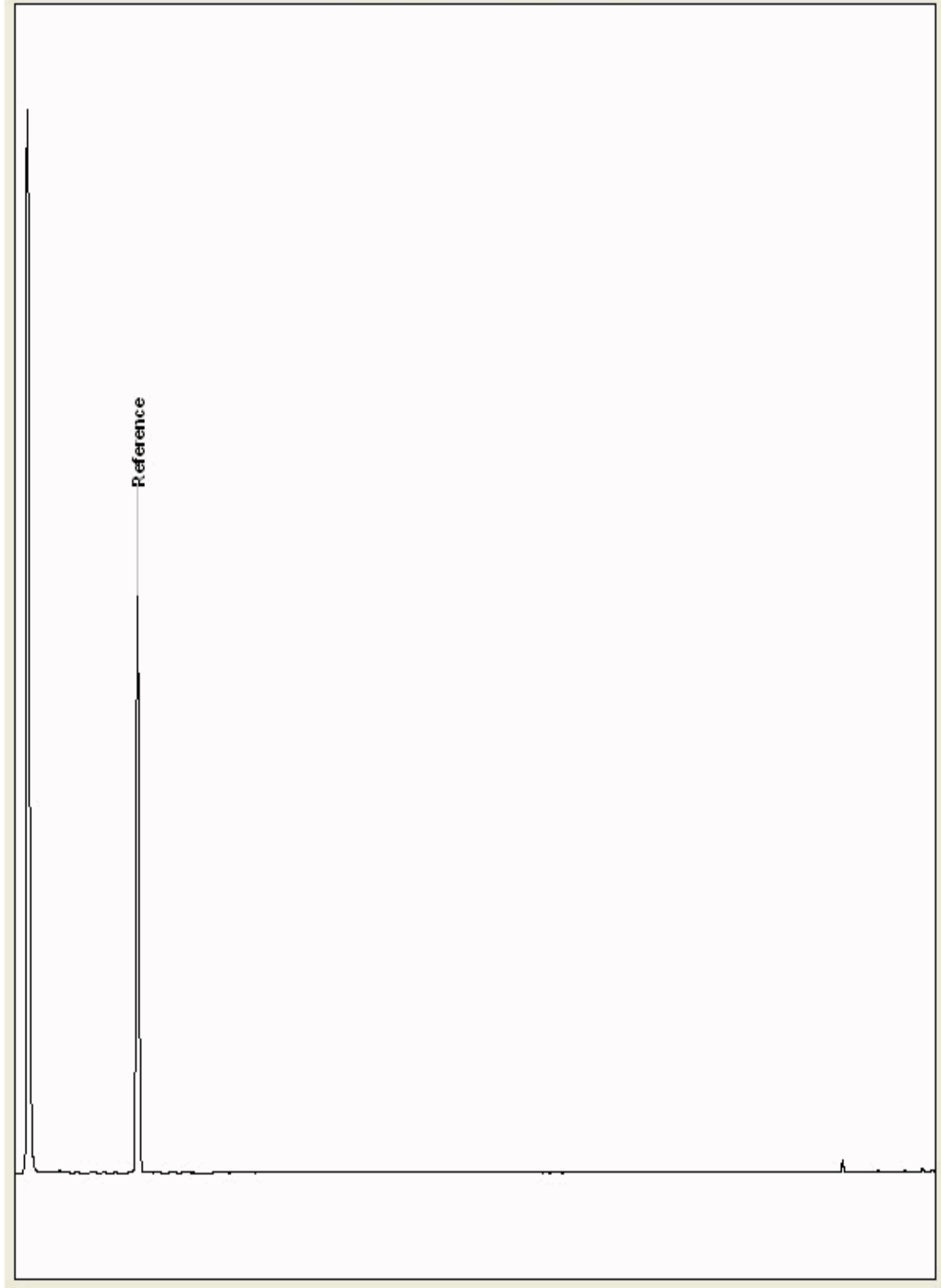
Chromatogram

Analysis: GRO by GC-FID (S)
19377597

Sample No :
Sample ID : BH208

19,377,597Depth :4.00 - 5.00

19377597_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

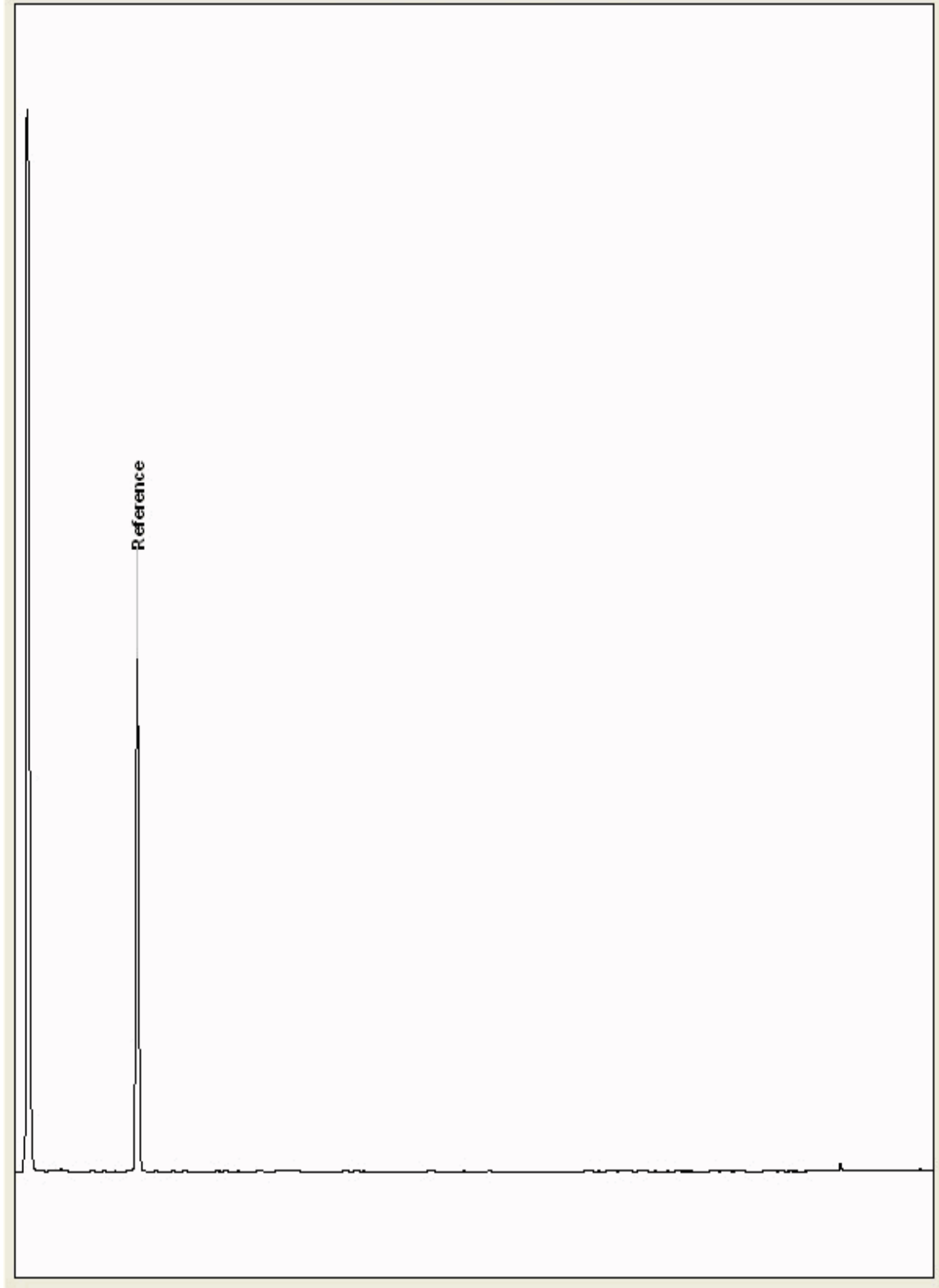
Chromatogram

Analysis: GRO by GC-FID (S)
19377652

Sample No :
Sample ID : BH206

19,377,652**Depth :**3.00 - 4.00

19377652_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

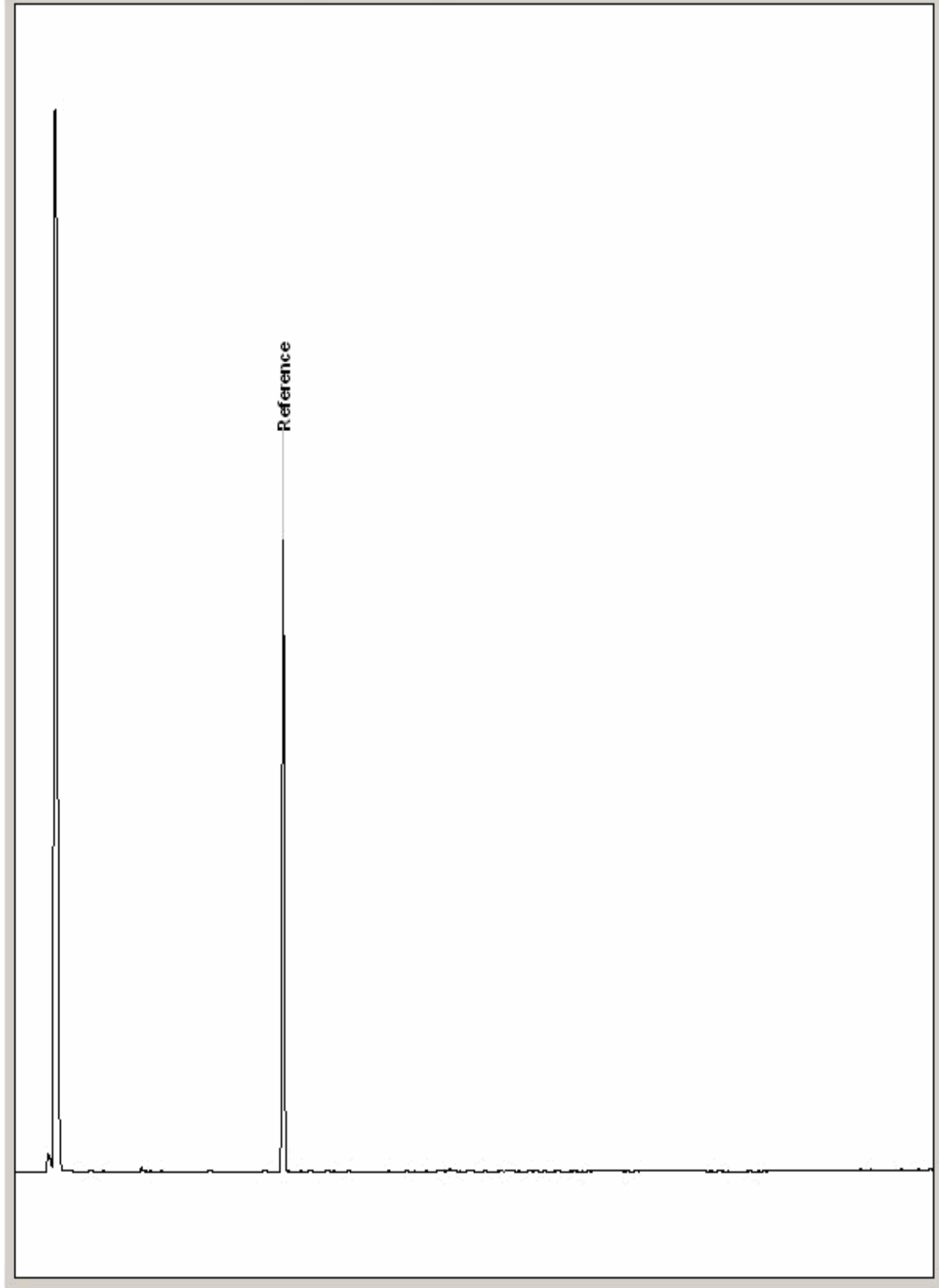
Chromatogram

Analysis: GRO by GC-FID (S)
19379381

Sample No :
Sample ID : BH220

19,379,381 Depth : 7.00 - 8.00

19379381_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

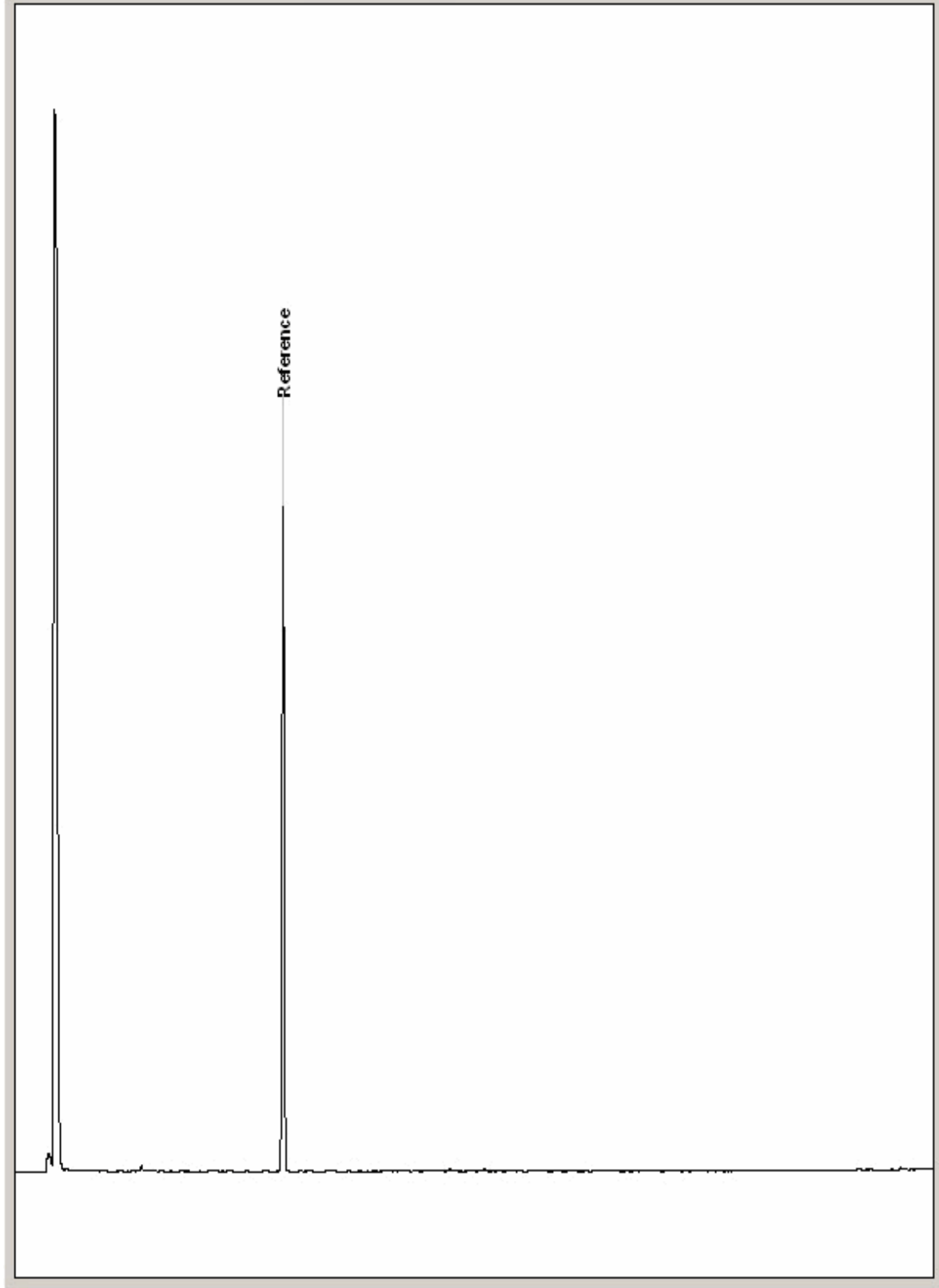
Chromatogram

Analysis: GRO by GC-FID (S)
19379508

Sample No :
Sample ID : BH206

19,379,508Depth :2.00 - 3.00

19379508_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

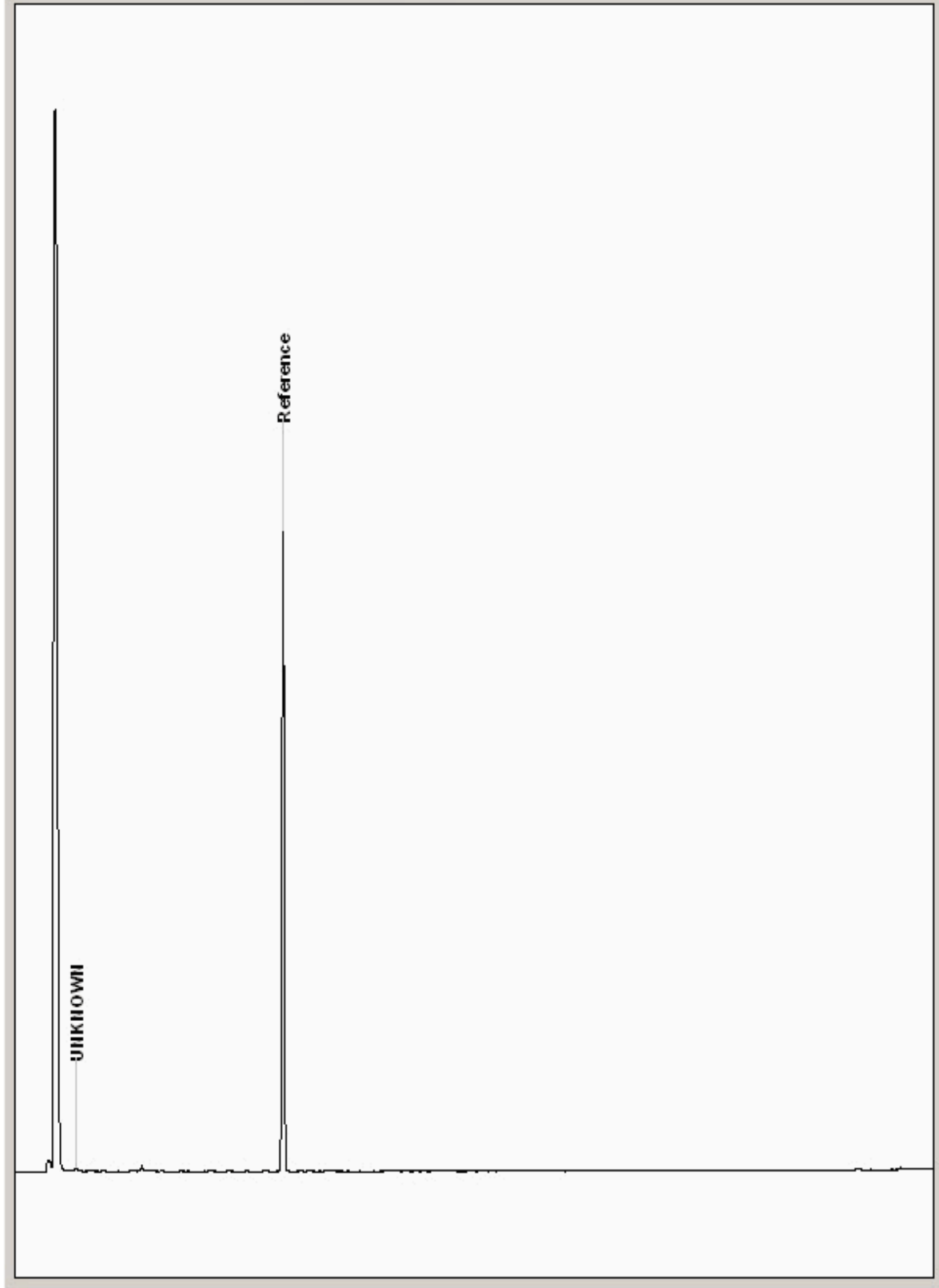
Chromatogram

Analysis: GRO by GC-FID (S)
19379528

Sample No :
Sample ID : BH206

19,379,528 Depth : 0.50 - 1.00

19379528_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

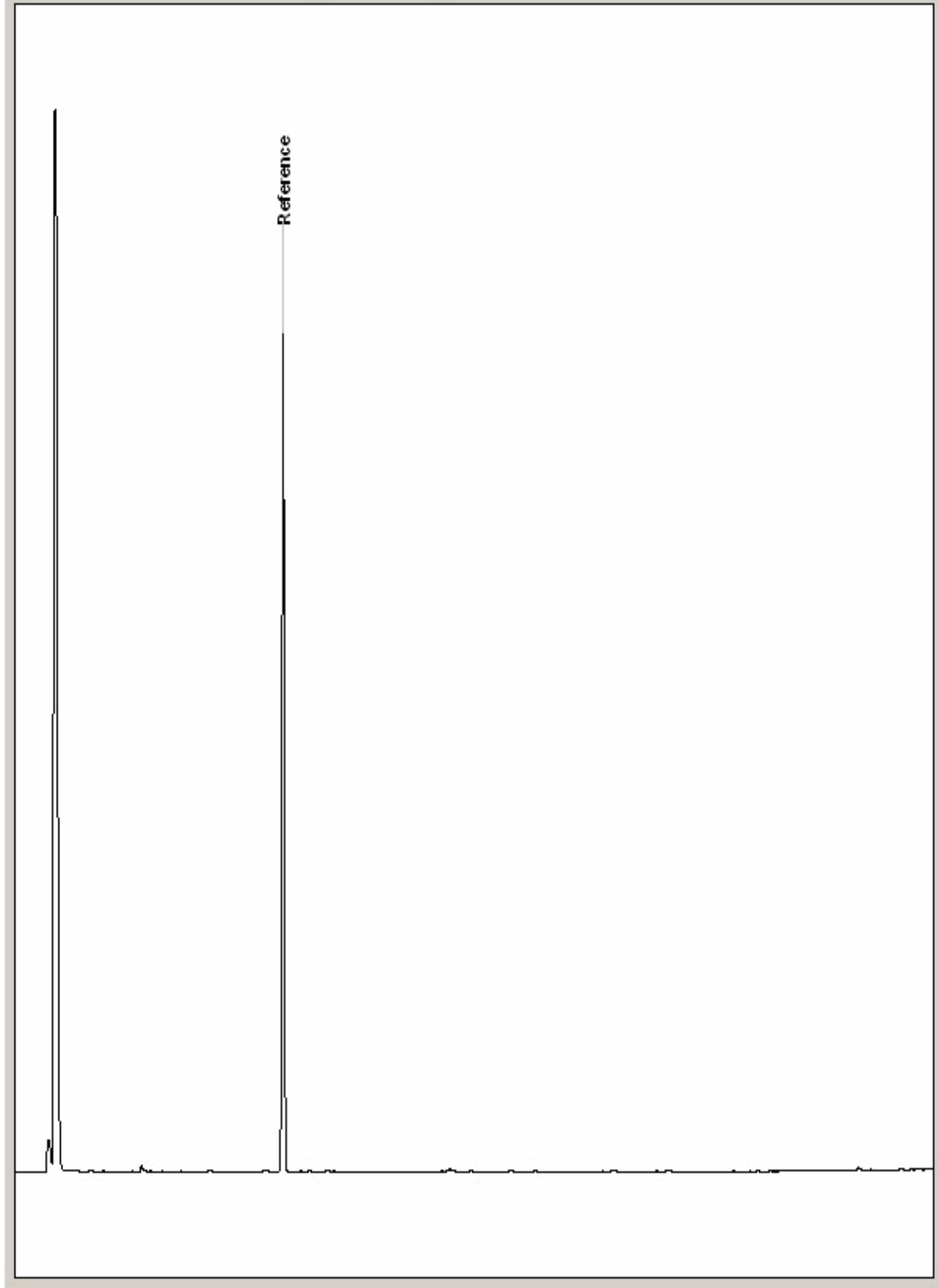
Chromatogram

Analysis: GRO by GC-FID (S)
19379551

Sample No :
Sample ID : BH208

19,379,551 Depth : 7.00 - 8.00

19379551_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

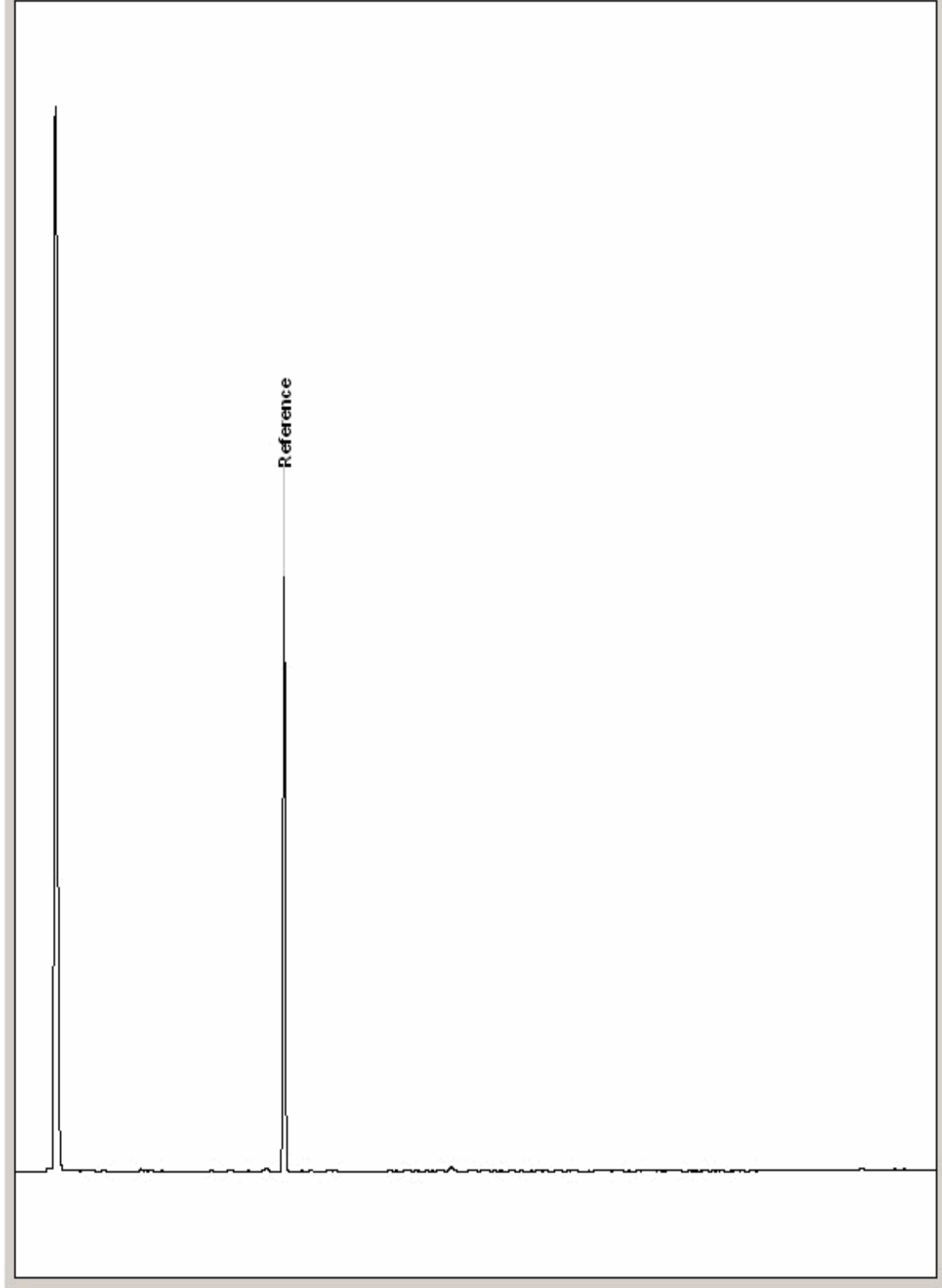
Chromatogram

Analysis: GRO by GC-FID (S)
19380207

Sample No :
Sample ID : BH207

19,380,207Depth :2.00 - 3.00

19380207_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

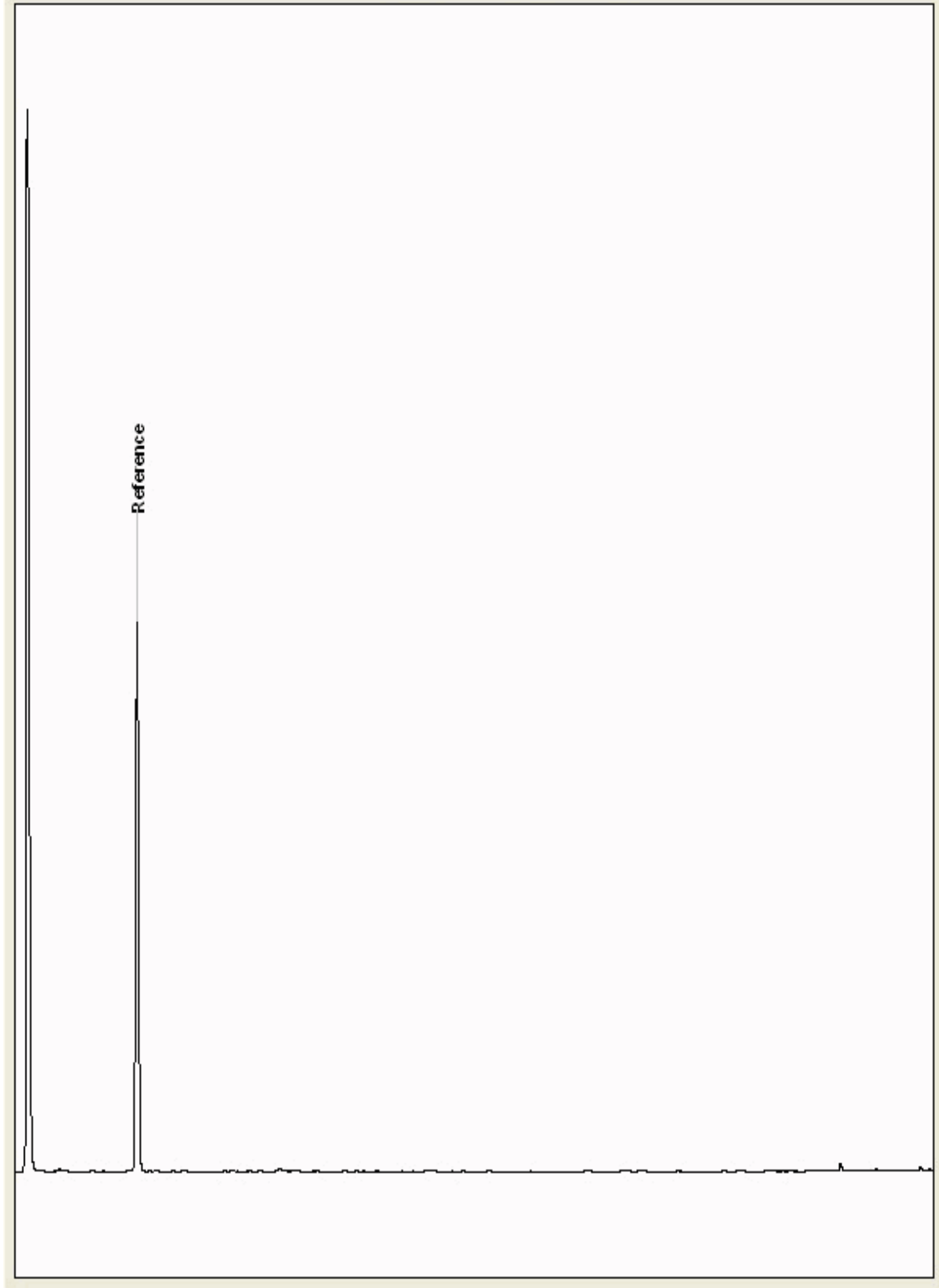
Chromatogram

Analysis: GRO by GC-FID (S)
19389189

Sample No :
Sample ID : BH221

19,389,189Depth :4.00 - 5.00

19389189_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

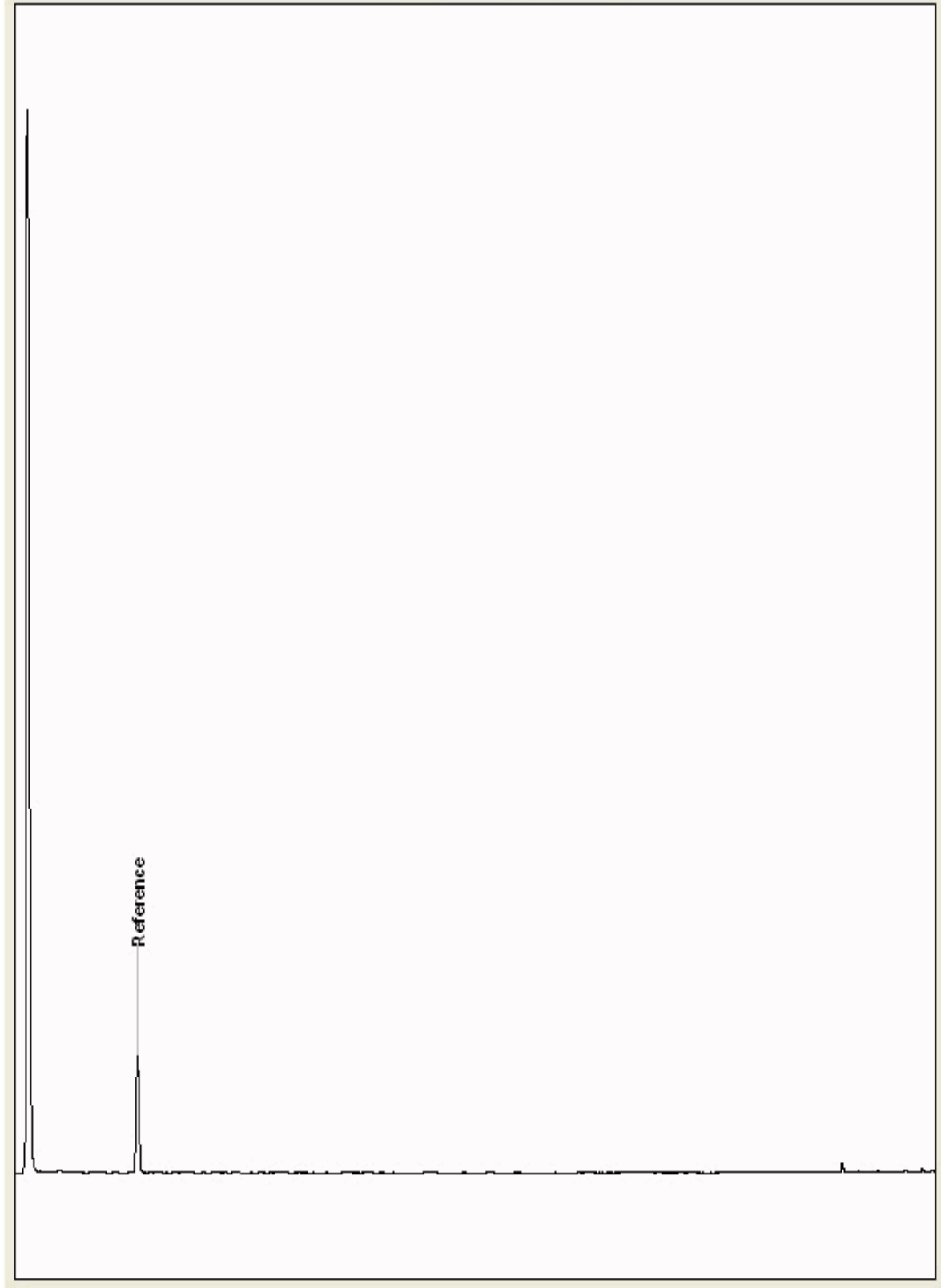
Chromatogram

Analysis: GRO by GC-FID (S)
19389190

Sample No :
Sample ID : BH220

19,389,190 **Depth :** 16.00 - 17.00

19389190_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

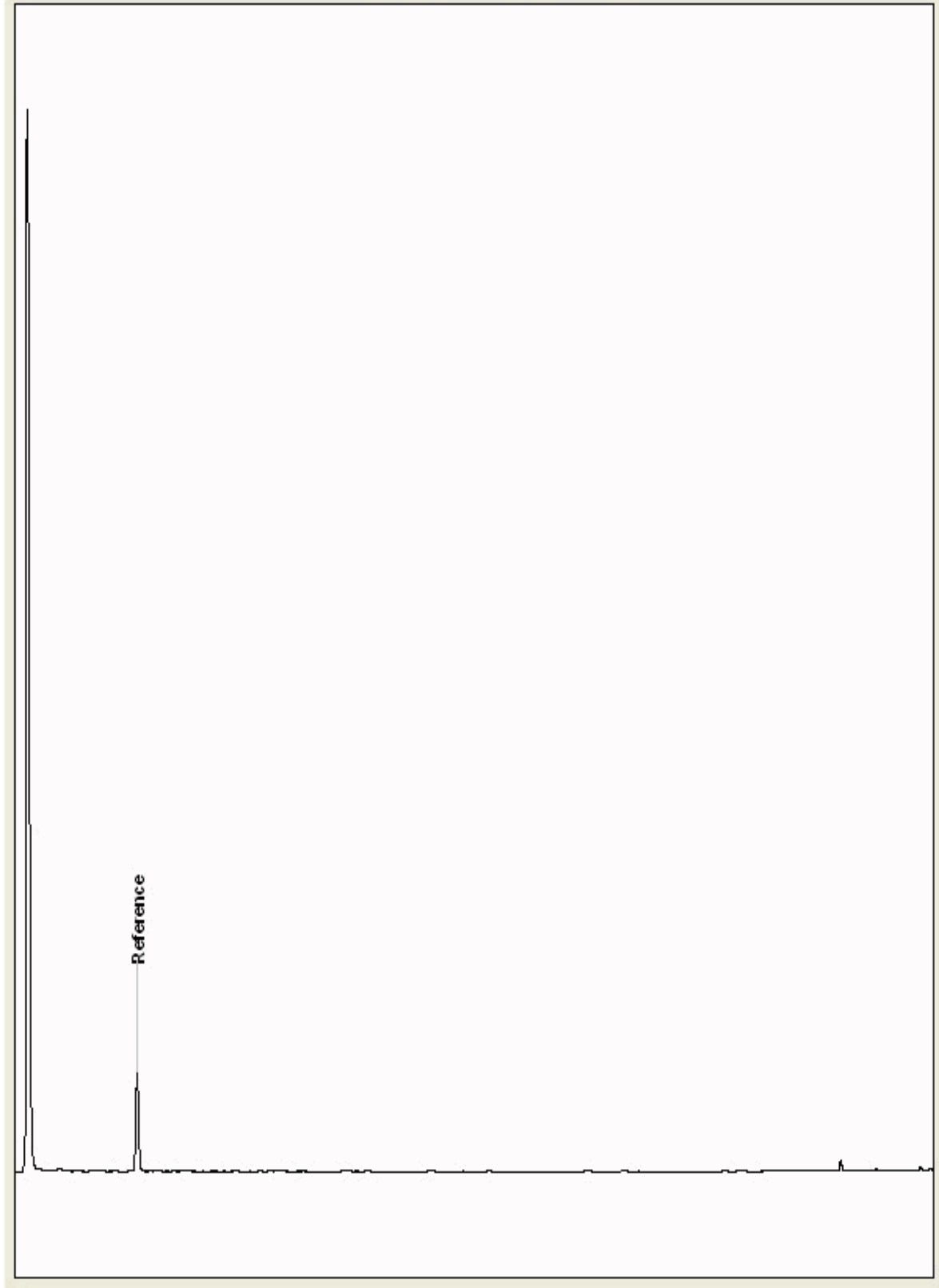
Chromatogram

Analysis: GRO by GC-FID (S)
19389191

Sample No :
Sample ID : BH209

19,389,191 Depth : 14.00 - 15.00

19389191_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

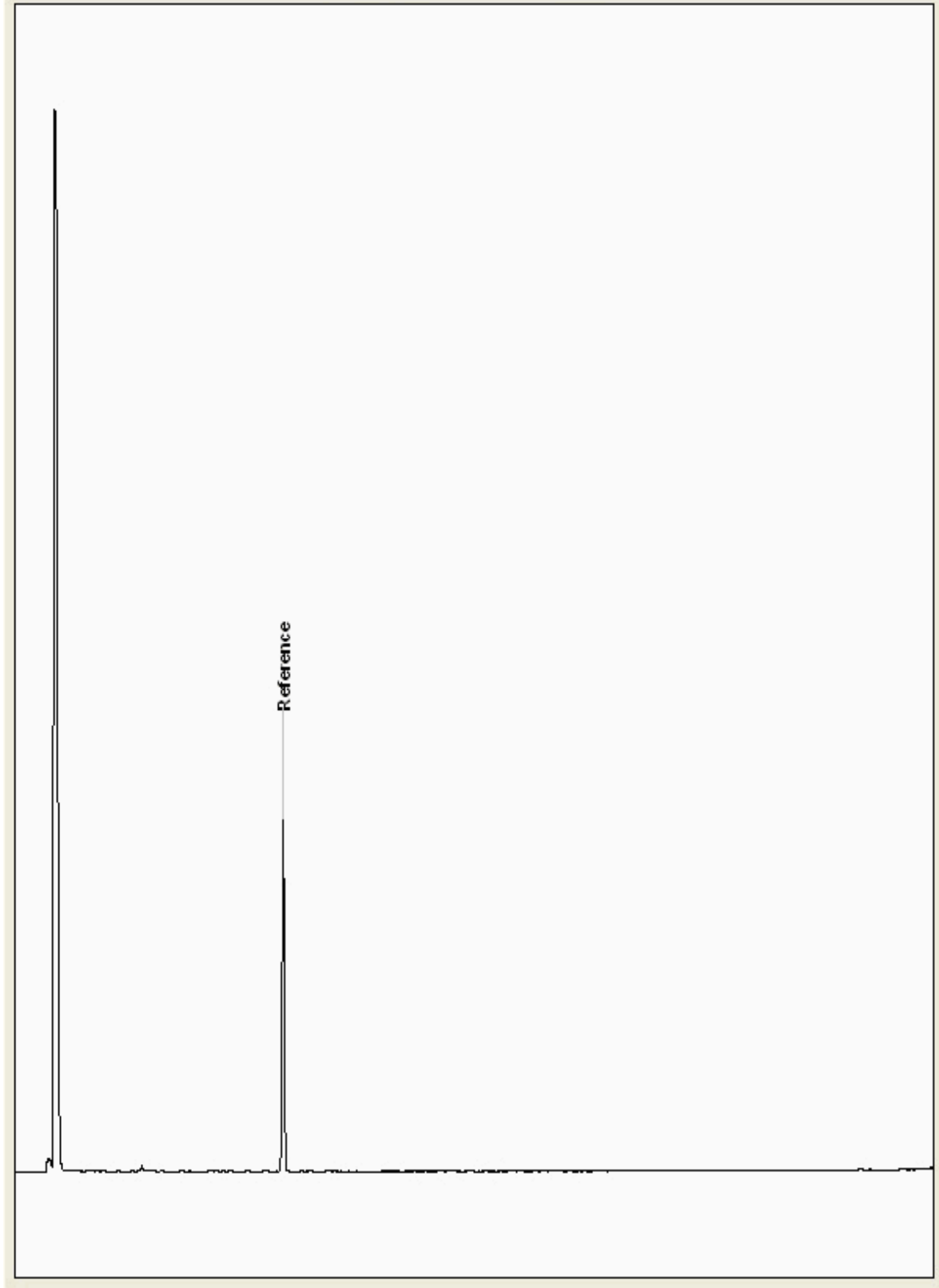
Chromatogram

Analysis: GRO by GC-FID (S)
19389404

Sample No :
Sample ID : BH209

19,389,404 Depth : 11.00 - 12.00

19389404_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

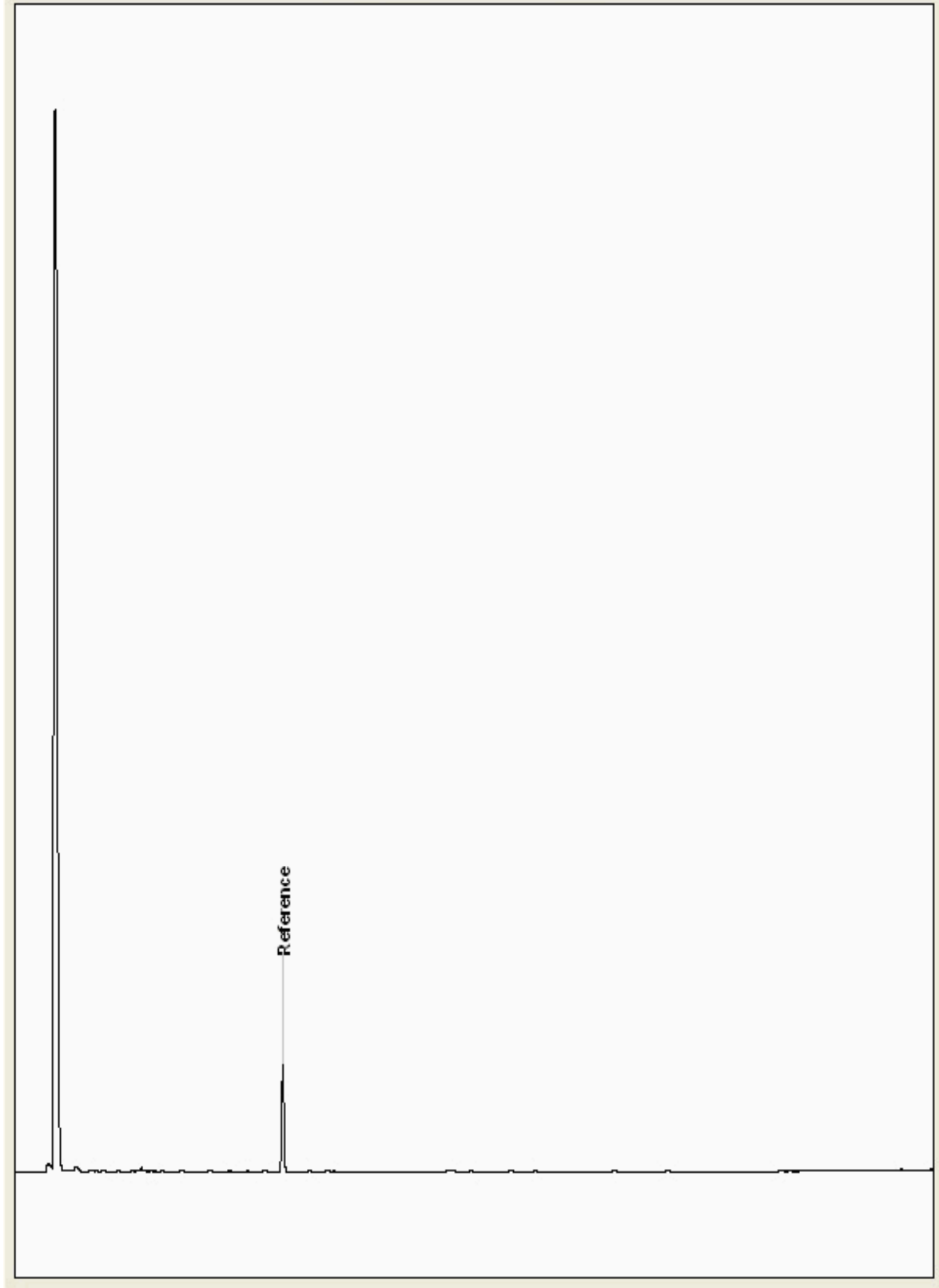
Chromatogram

Analysis: GRO by GC-FID (S)
19389407

Sample No :
Sample ID : BH221

19,389,407Depth : 14.00 - 15.00

19389407_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

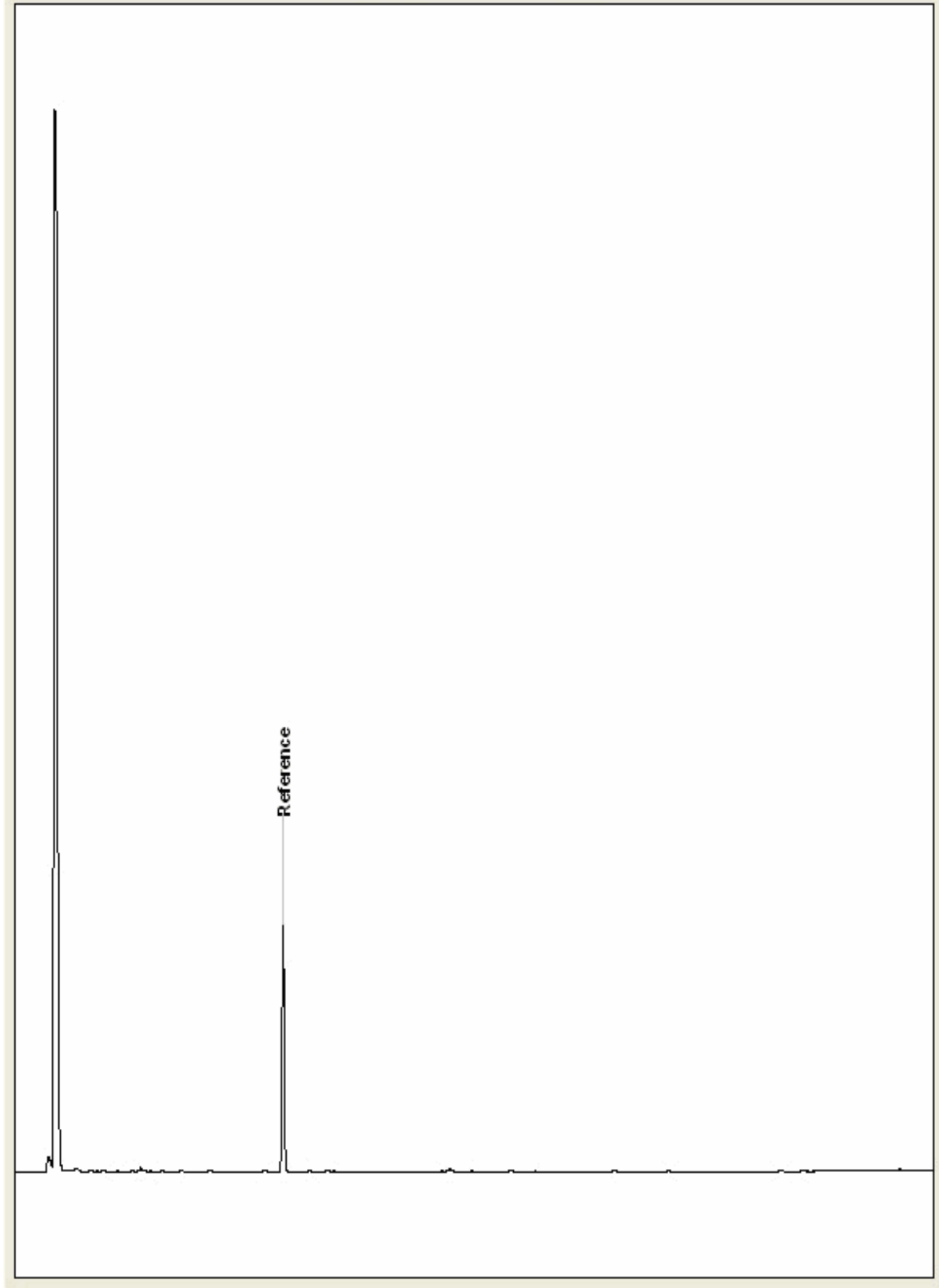
Chromatogram

Analysis: GRO by GC-FID (S)
19389416

Sample No :
Sample ID : BH221

19,389,416 Depth : 12.00 - 13.00

19389416_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

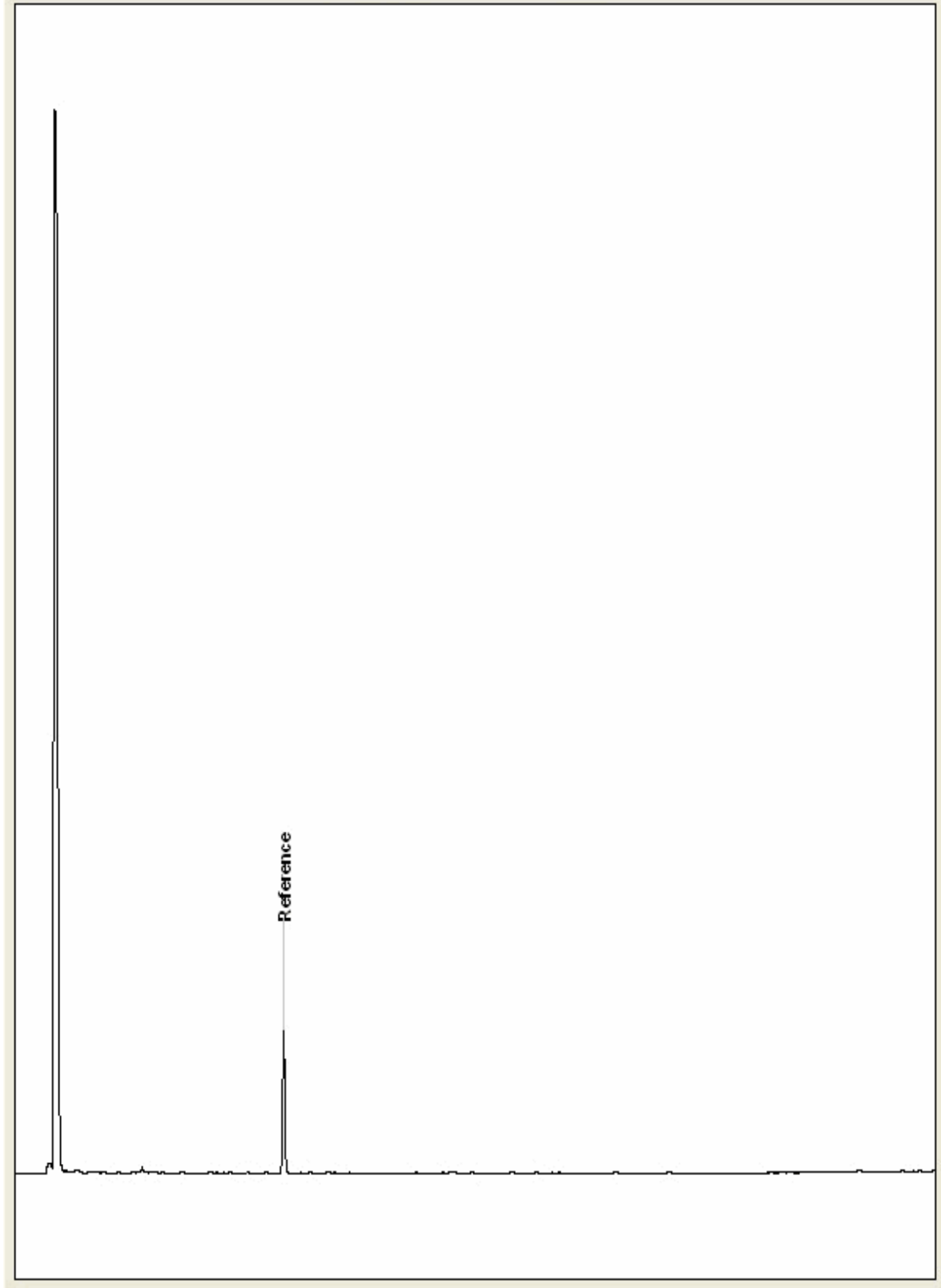
Chromatogram

Analysis: GRO by GC-FID (S)
19389429

Sample No :
Sample ID : BH221

19,389,429 **Depth :** 15.00 - 16.00

19389429_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

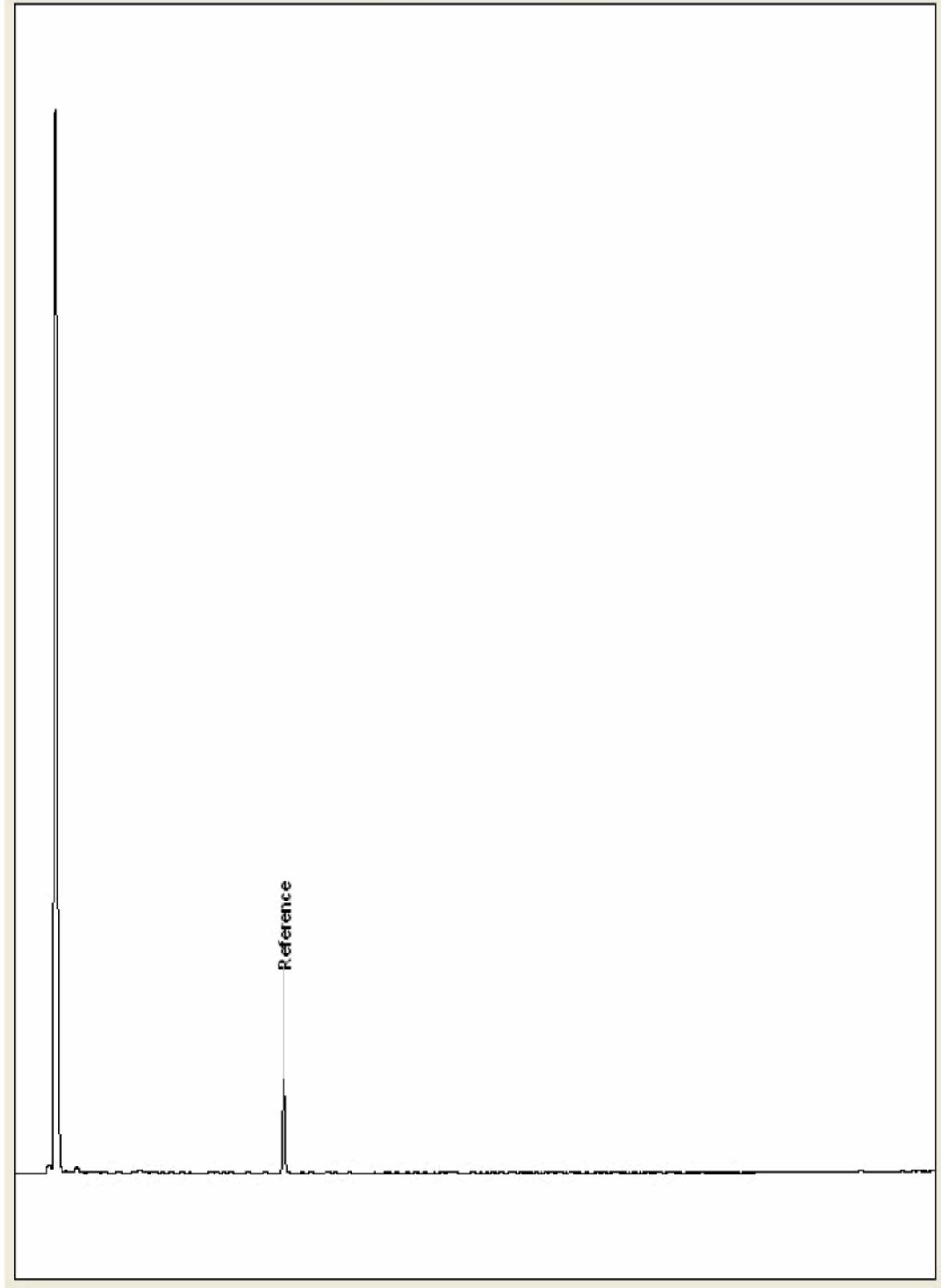
Chromatogram

Analysis: GRO by GC-FID (S)
19389433

Sample No :
Sample ID : BH209

19,389,433Depth : 16.00 - 17.00

19389433_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

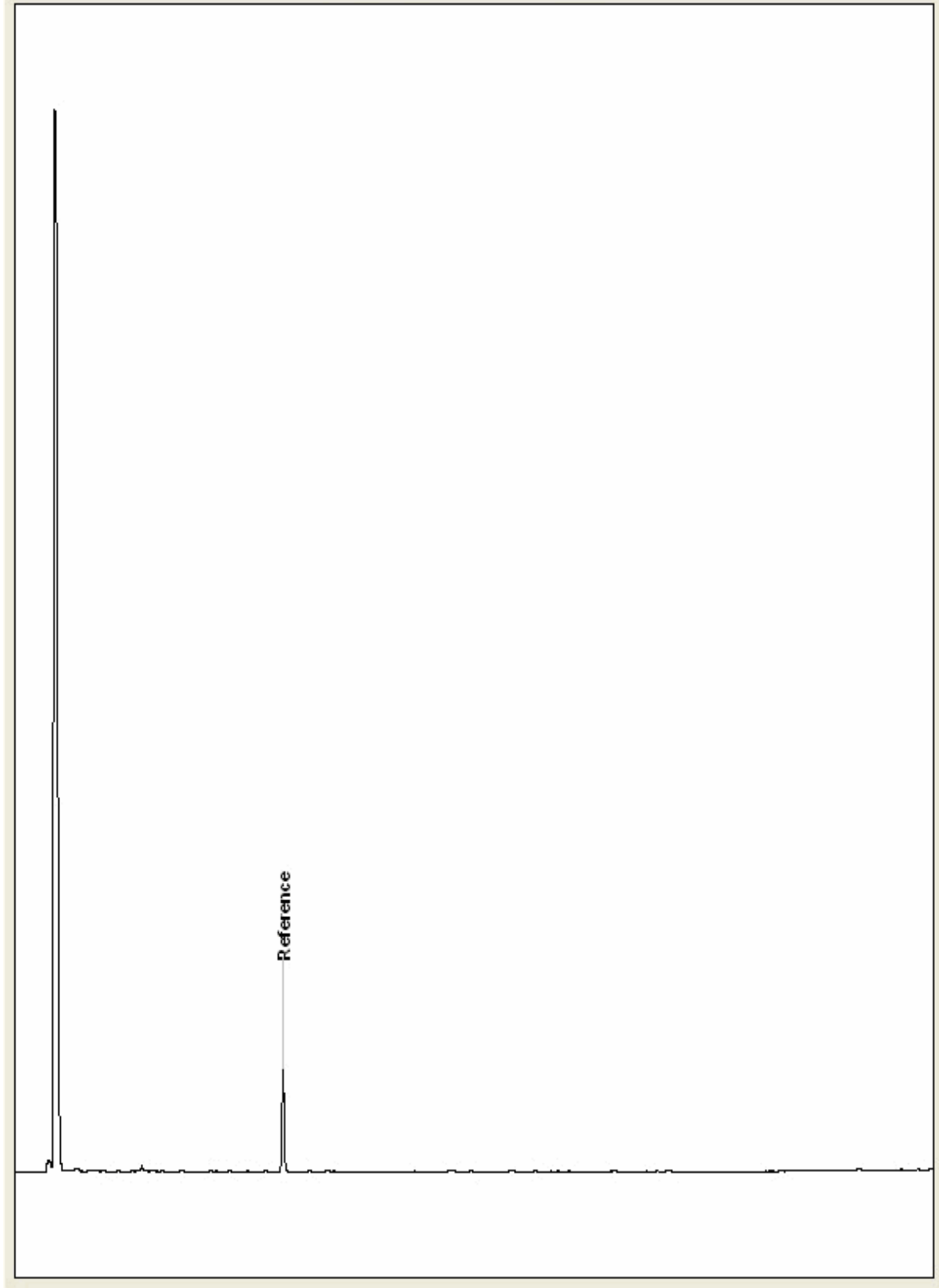
Chromatogram

Analysis: GRO by GC-FID (S)
19389444

Sample No :
Sample ID : BH209

19,389,444 Depth : 13.00 - 14.00

19389444_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

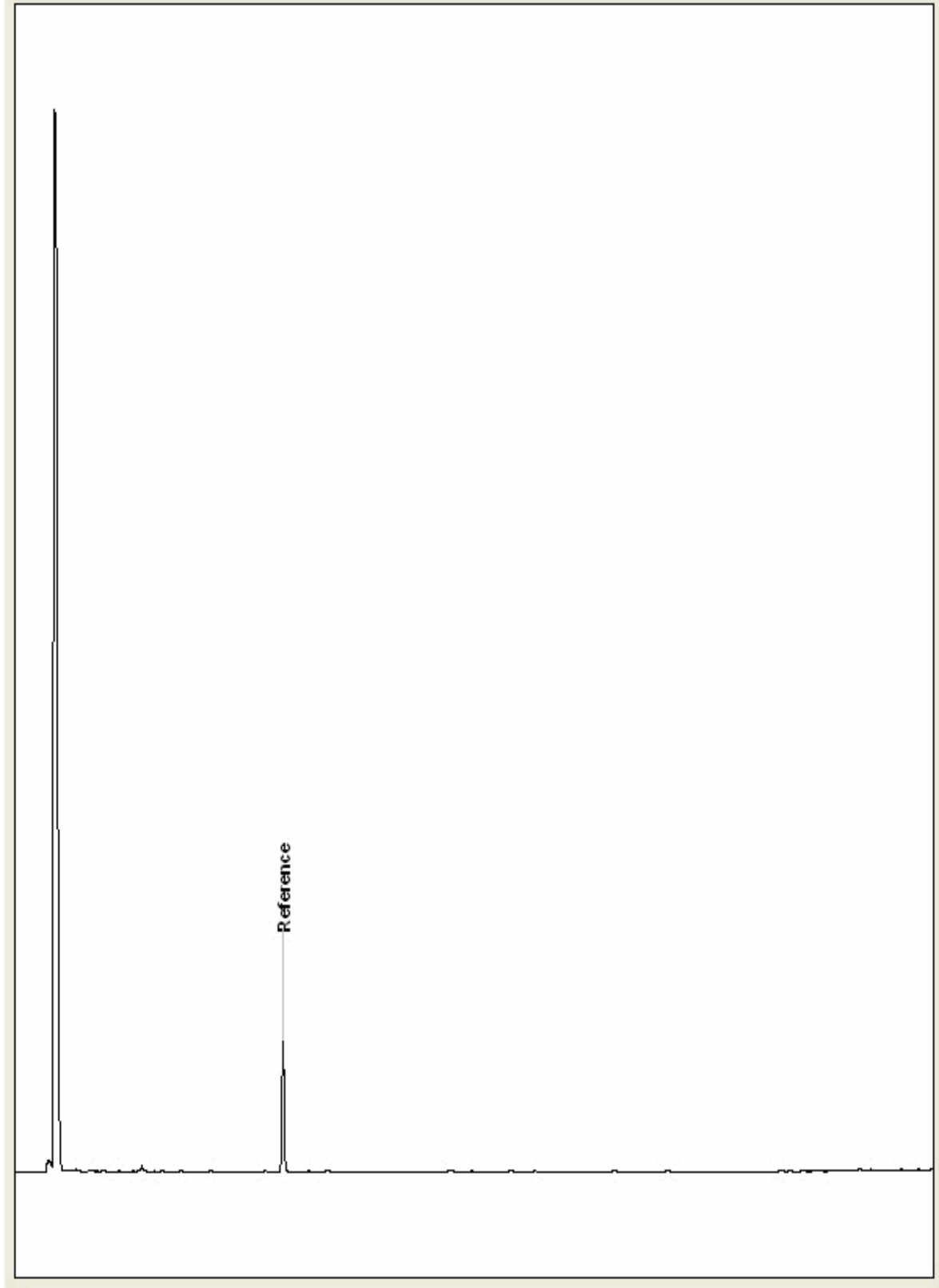
Chromatogram

Analysis: GRO by GC-FID (S)
19389460

Sample No :
Sample ID : BH208

19,389,460 Depth : 11.00 - 12.00

19389460_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

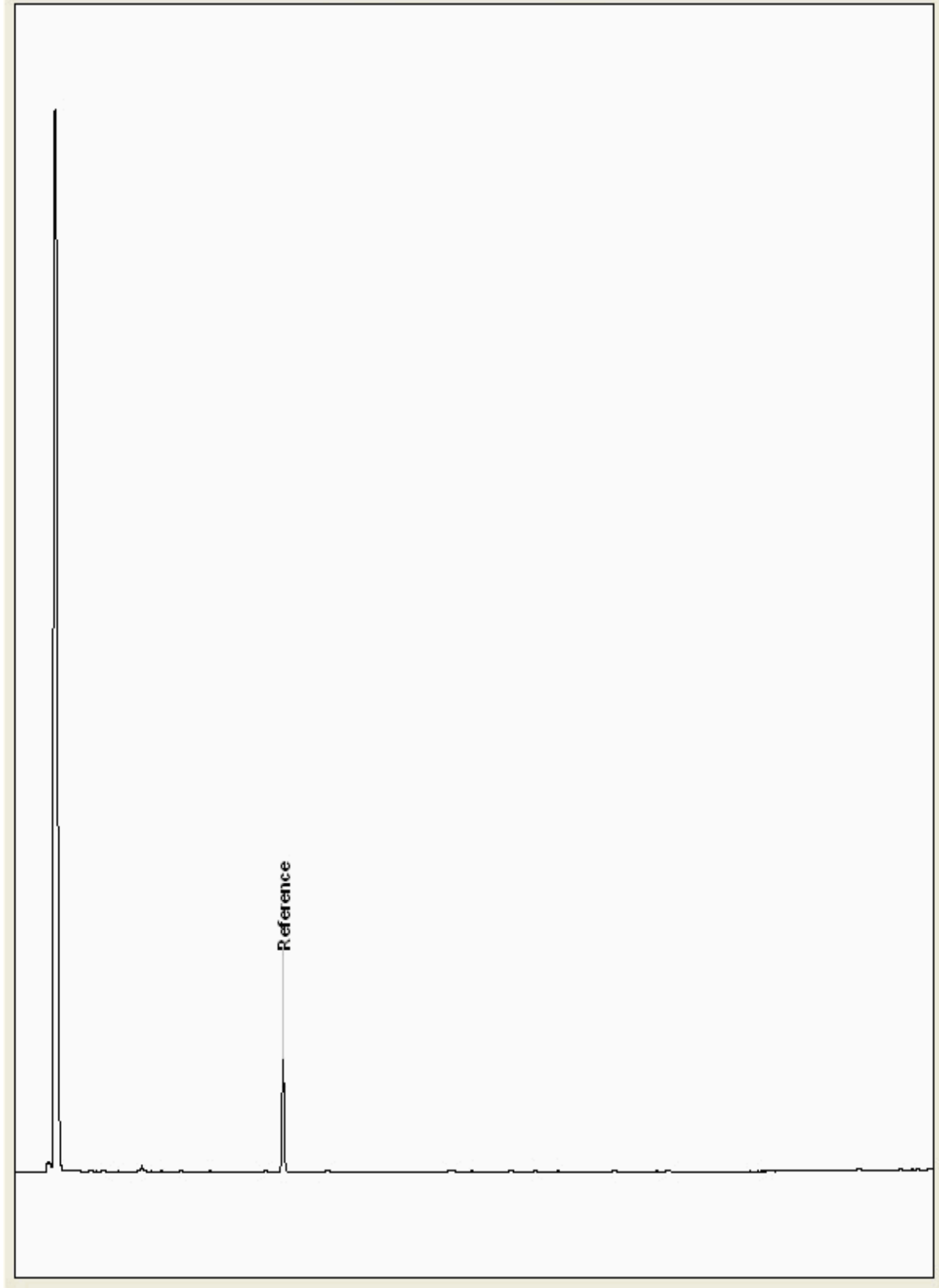
Chromatogram

Analysis: GRO by GC-FID (S)
19389468

Sample No :
Sample ID : BH208

19,389,468 **Depth :** 14.00 - 15.00

19389468_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

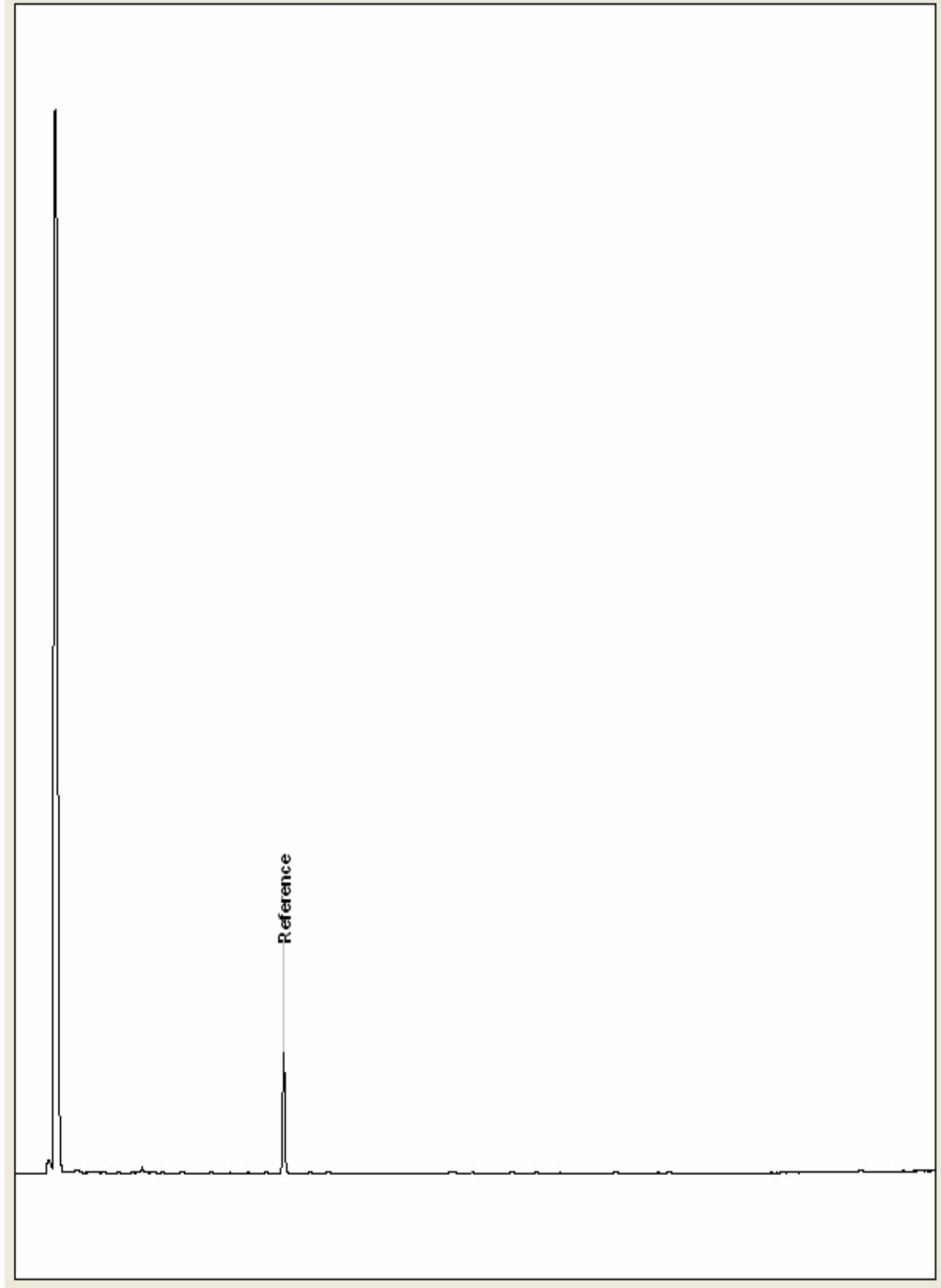
Chromatogram

Analysis: GRO by GC-FID (S)
19389477

Sample No :
Sample ID : BH208

19,389,477Depth : 15.00 - 16.00

19389477_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

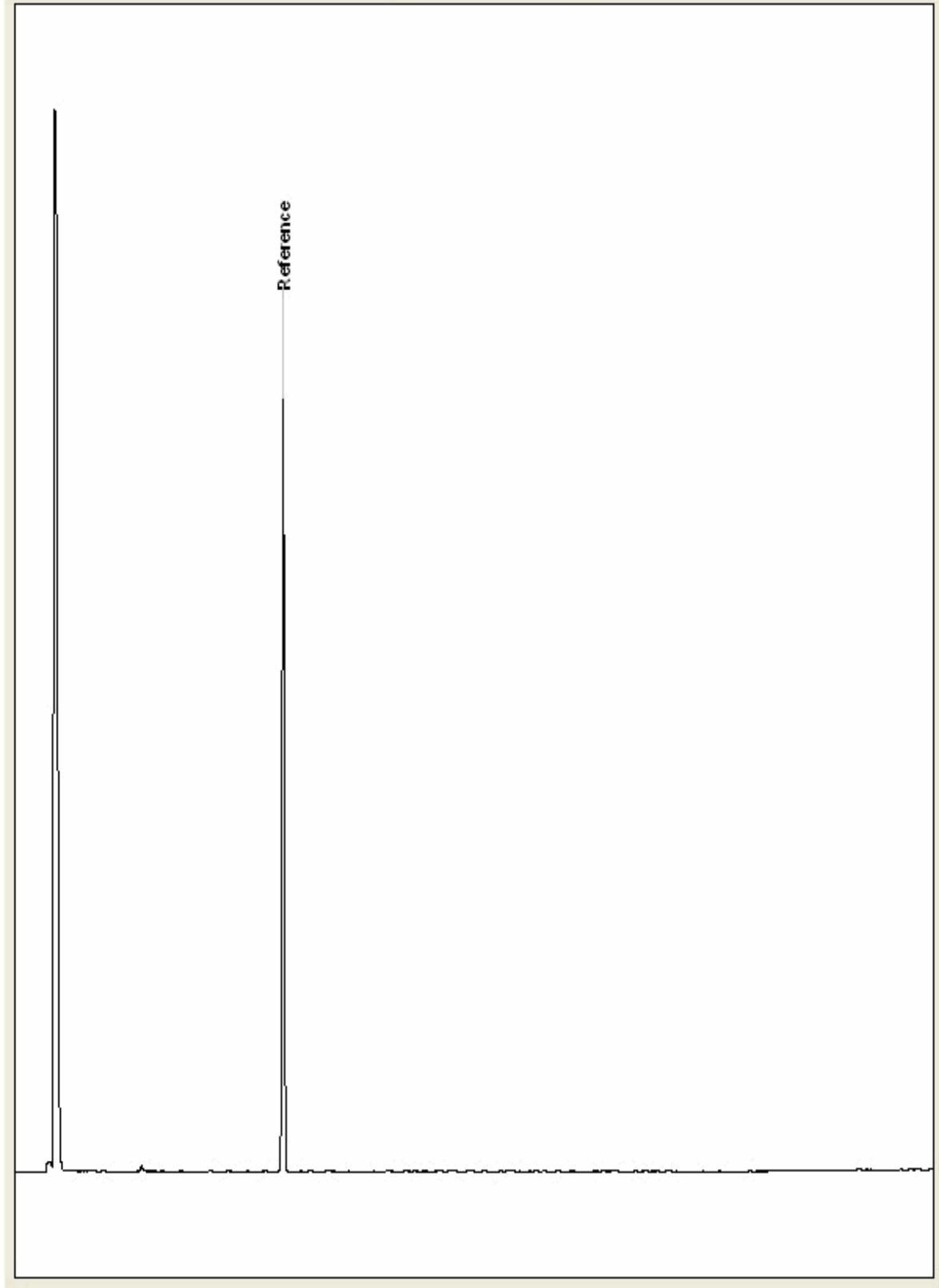
Chromatogram

Analysis: GRO by GC-FID (S)
19392215

Sample No :
Sample ID : BH220

19,392,215 Depth : 6.00 - 7.00

19392215_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

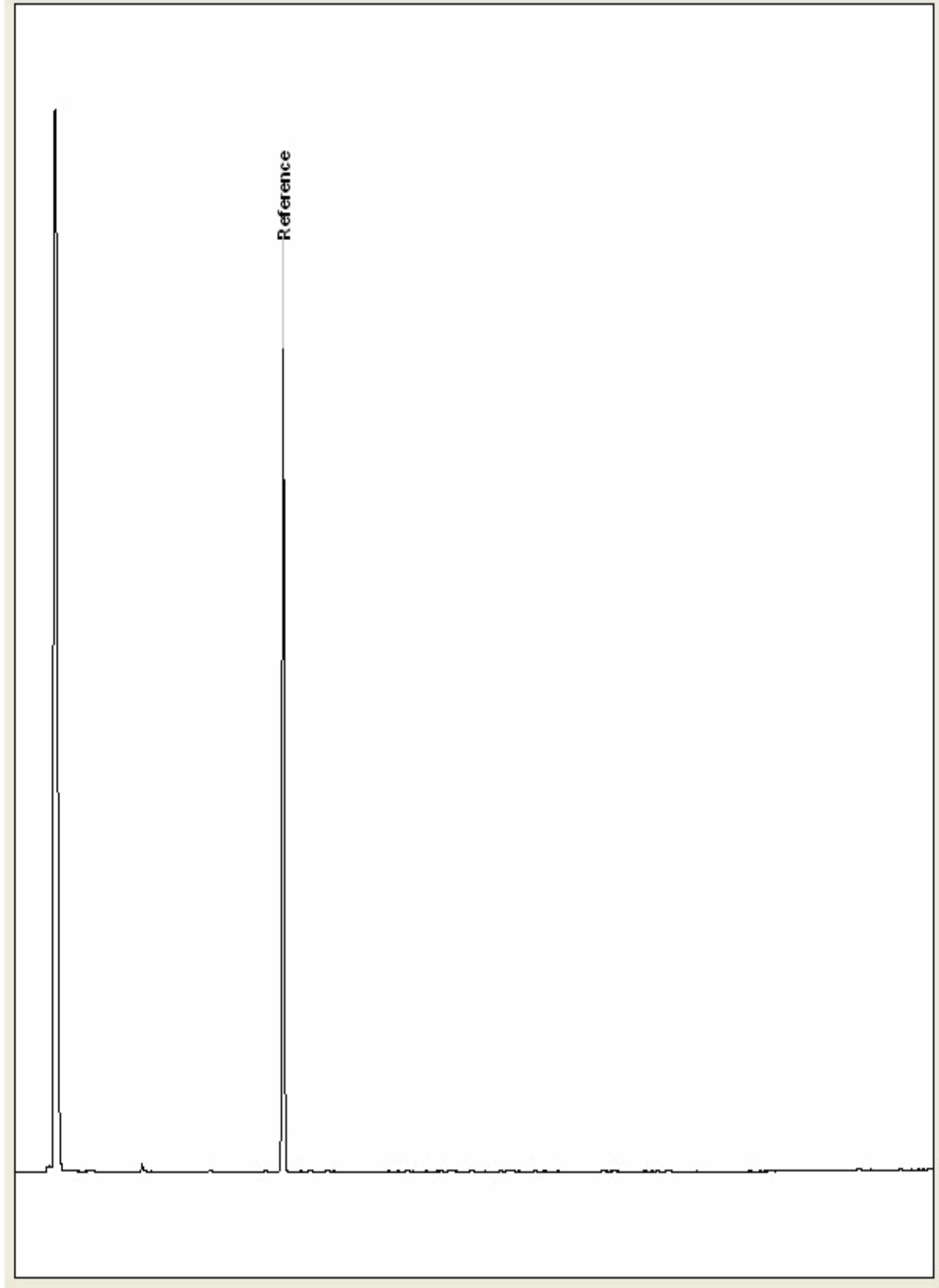
Chromatogram

Analysis: GRO by GC-FID (S)
19392250

Sample No :
Sample ID : BH221

19,392,250Depth :3.00 - 4.00

19392250_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

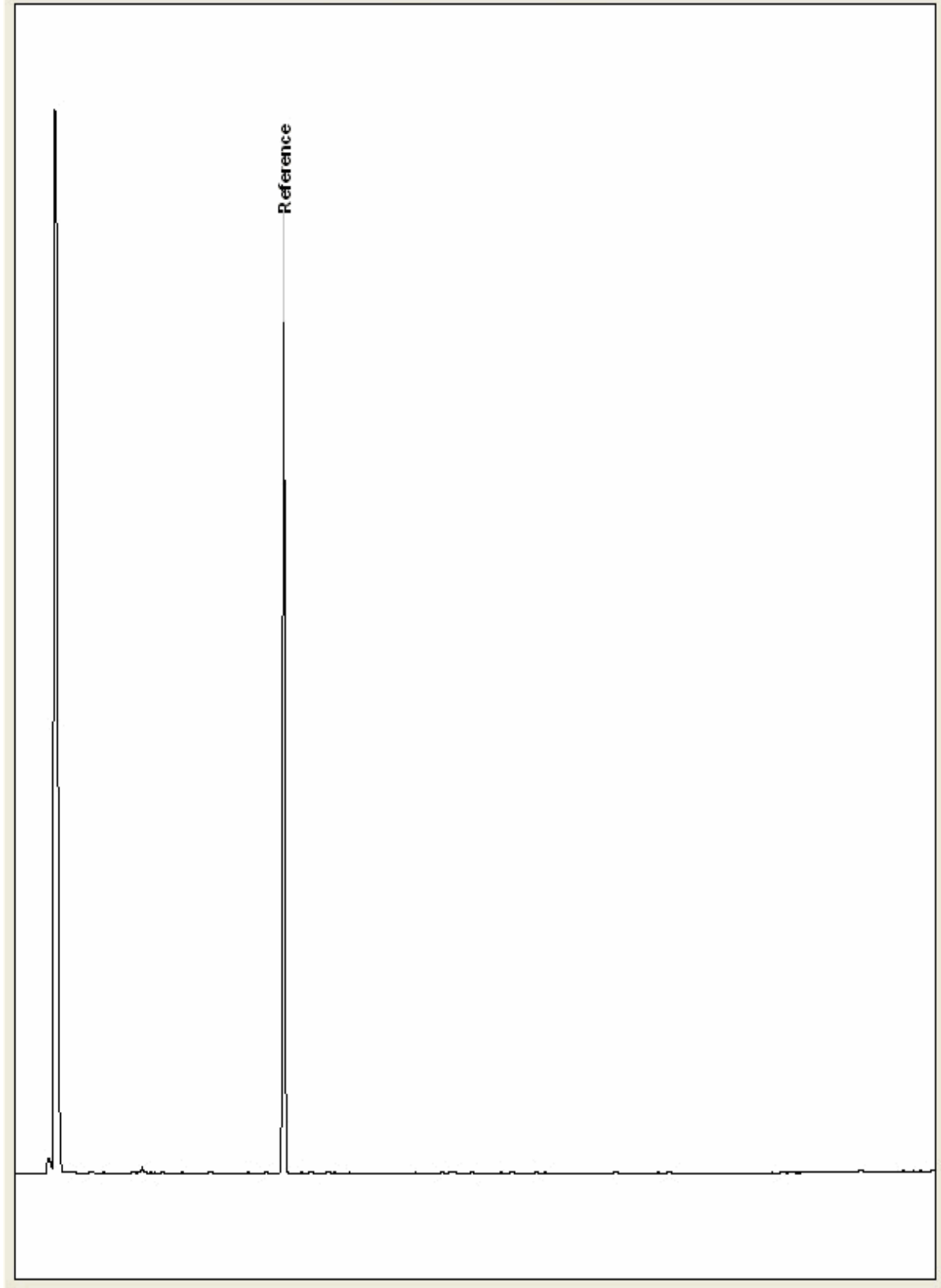
Chromatogram

Analysis: GRO by GC-FID (S)
19392275

Sample No :
Sample ID : BH221

19,392,275Depth :8.00 - 9.00

19392275_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

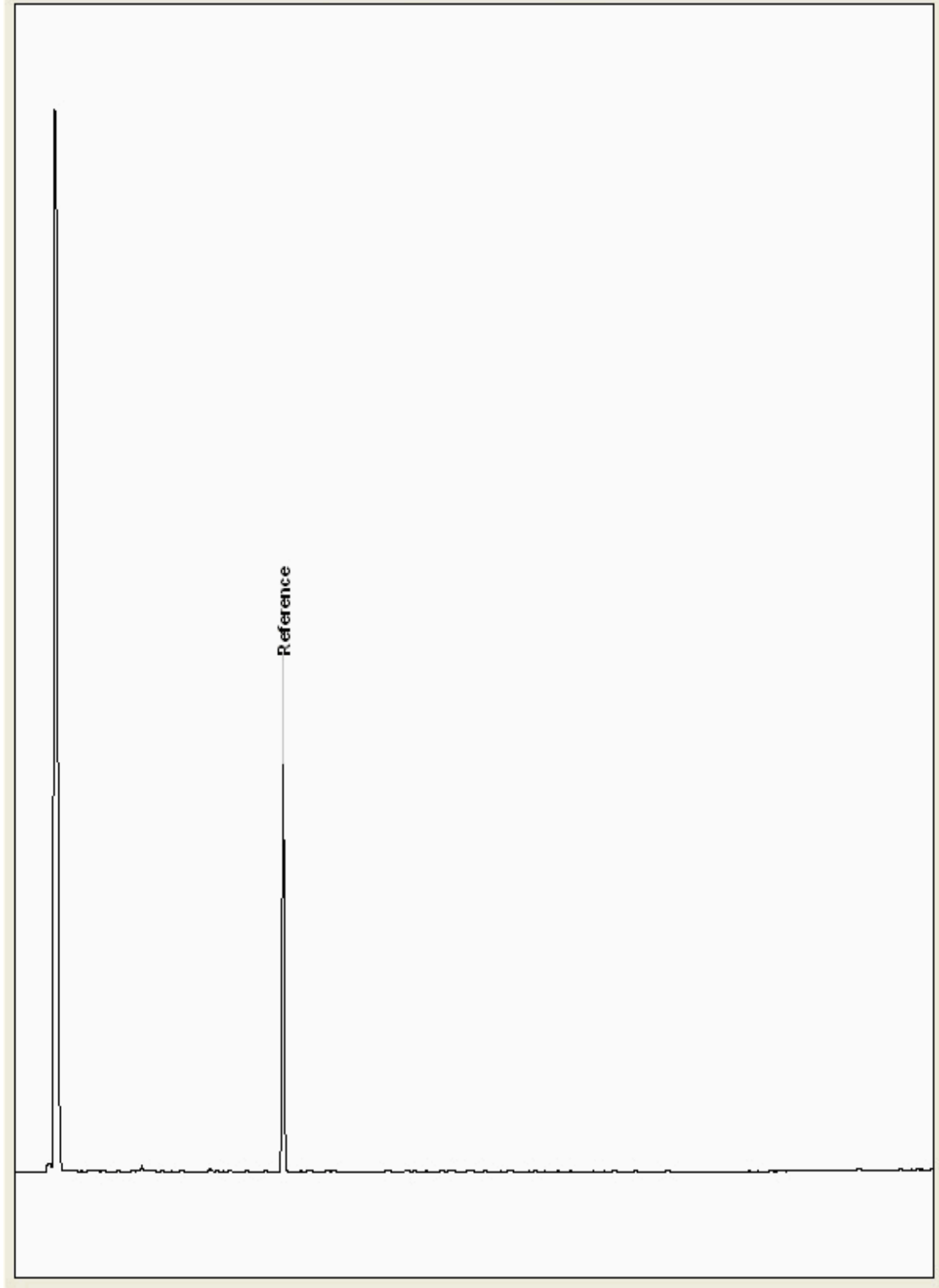
Chromatogram

Analysis: GRO by GC-FID (S)
19392303

Sample No :
Sample ID : BH209

19,392,303Depth :0.50 - 1.00

19392303_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

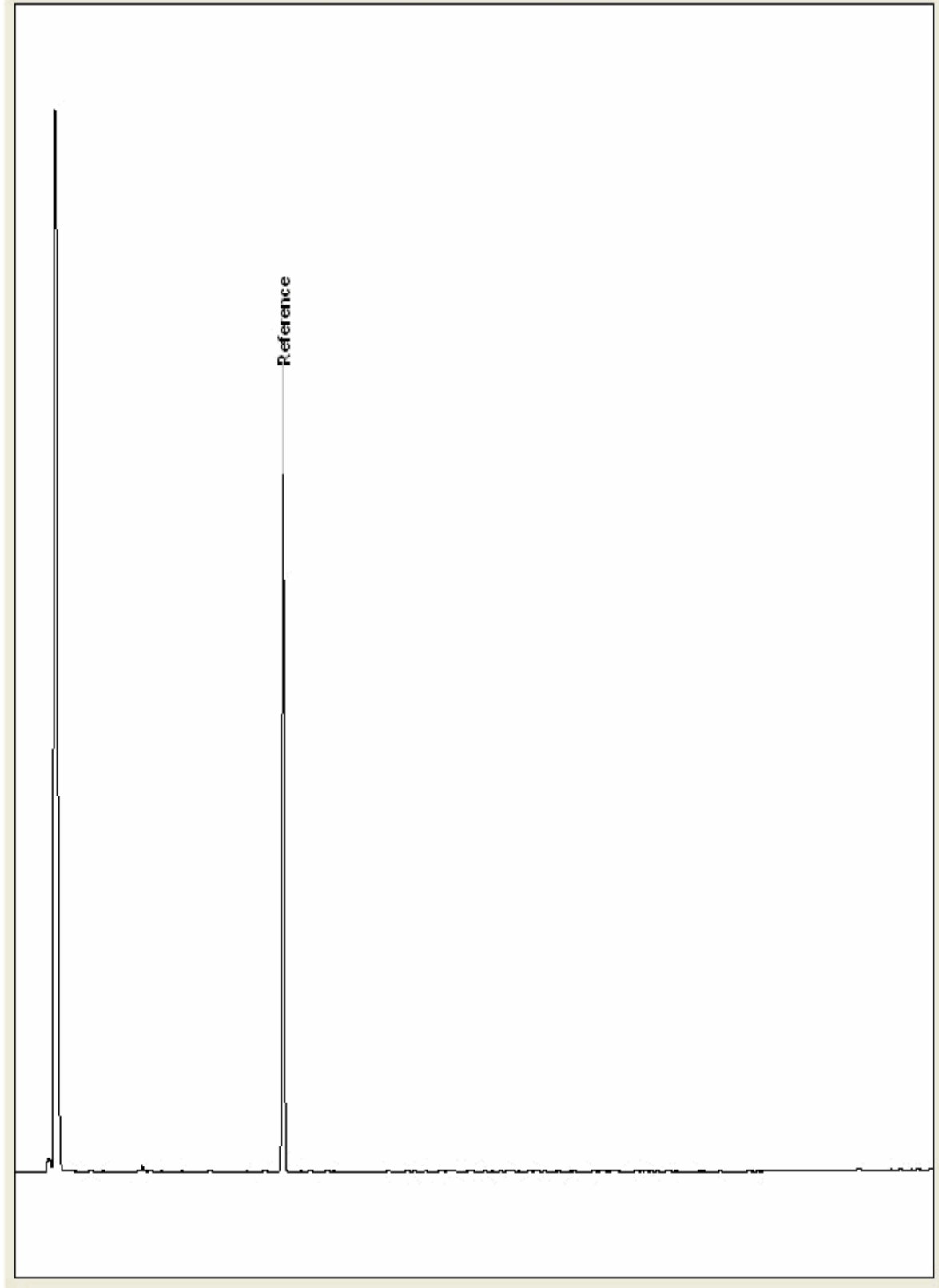
Chromatogram

Analysis: GRO by GC-FID (S)
19392333

Sample No :
Sample ID : BH209

19,392,333Depth : 0.00 - 0.50

19392333_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

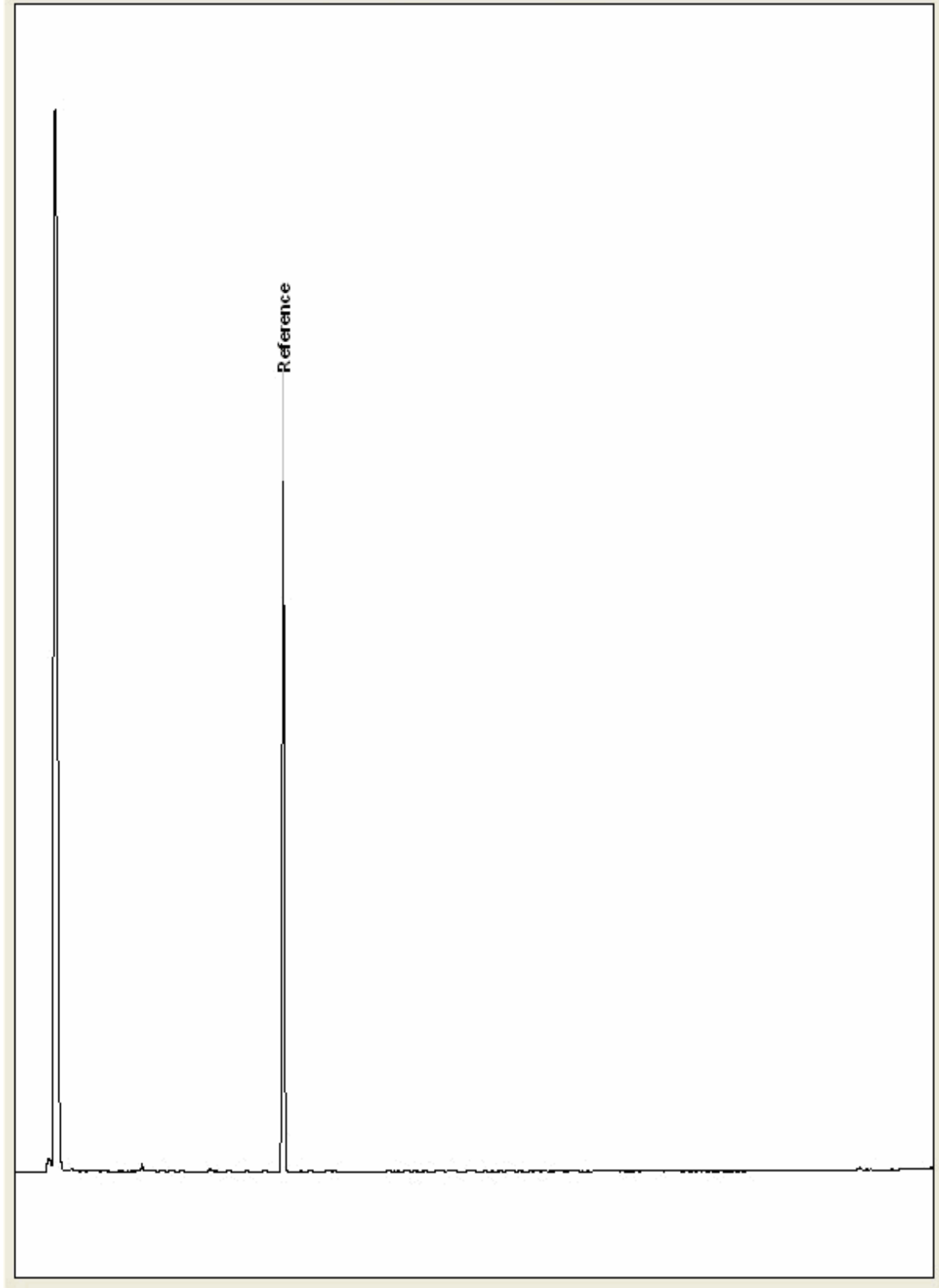
Chromatogram

Analysis: GRO by GC-FID (S)
19392354

Sample No :
Sample ID : BH209

19,392,354 **Depth :** 2.00 - 3.00

19392354_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

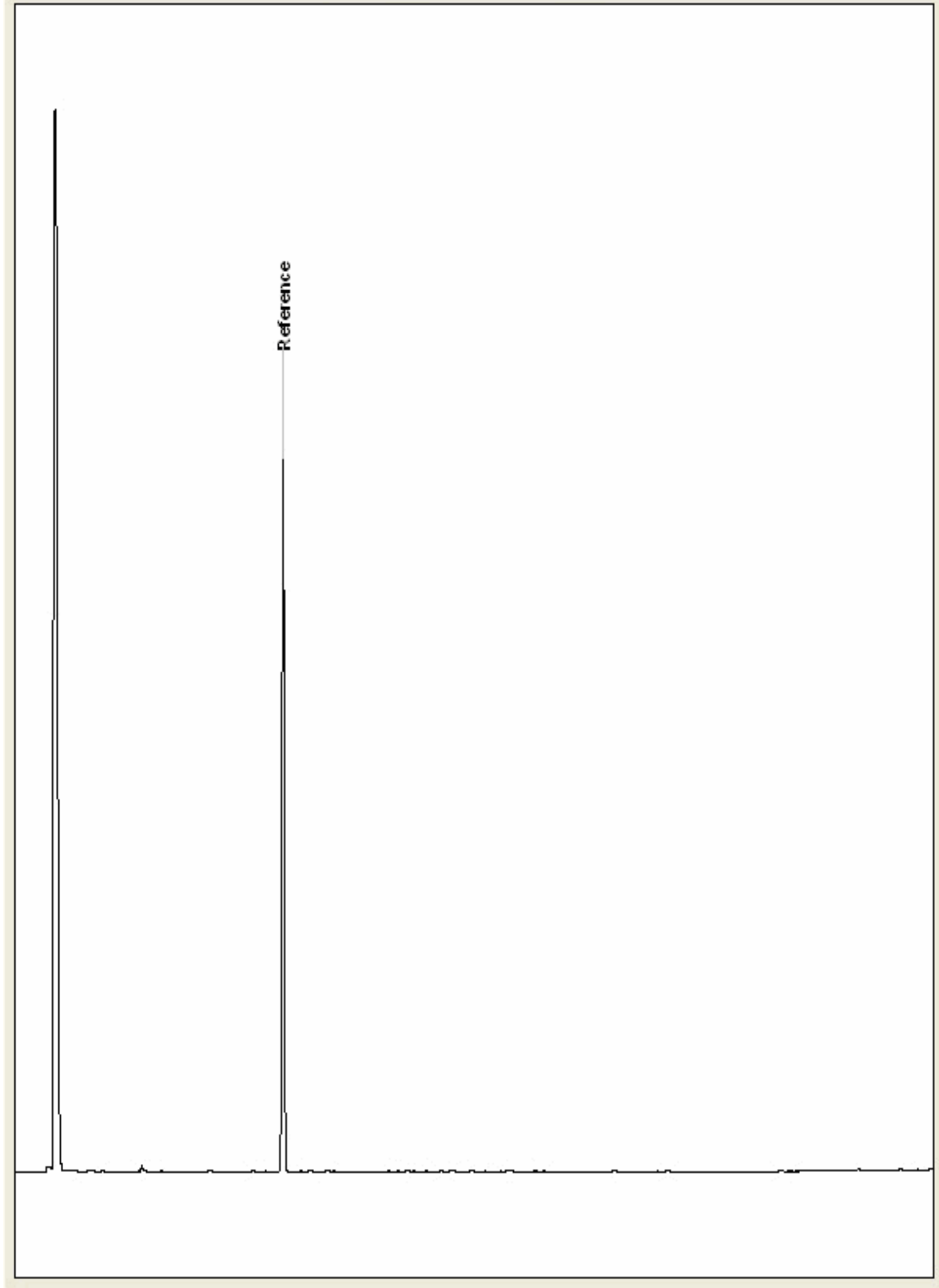
Chromatogram

Analysis: GRO by GC-FID (S)
19392401

Sample No :
Sample ID : BH221

19,392,401 Depth : 1.00 - 2.00

19392401_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

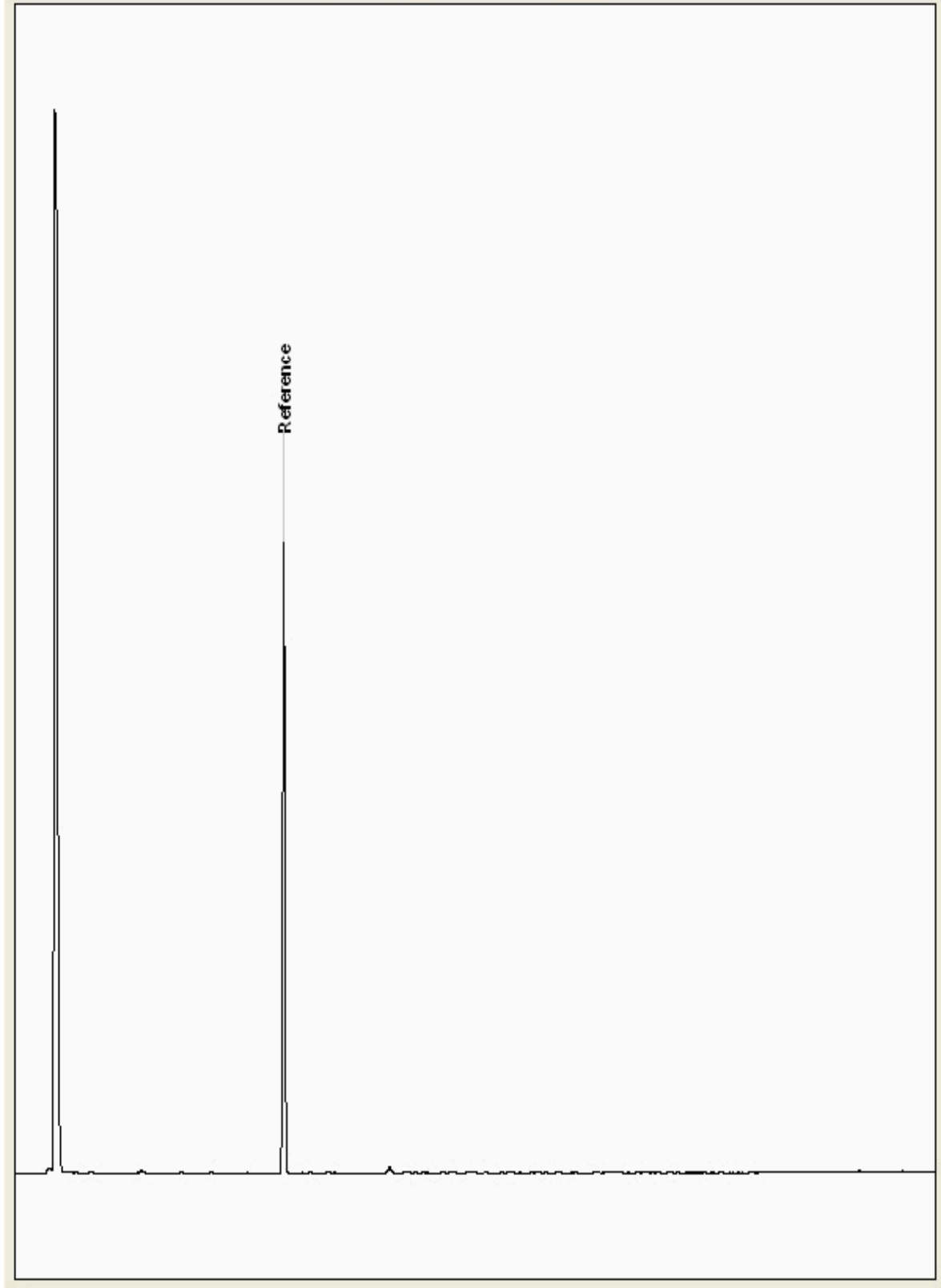
Chromatogram

Analysis: GRO by GC-FID (S)
19392438

Sample No :
Sample ID : BH220

19,392,438 Depth : 2.00 - 3.00

19392438_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

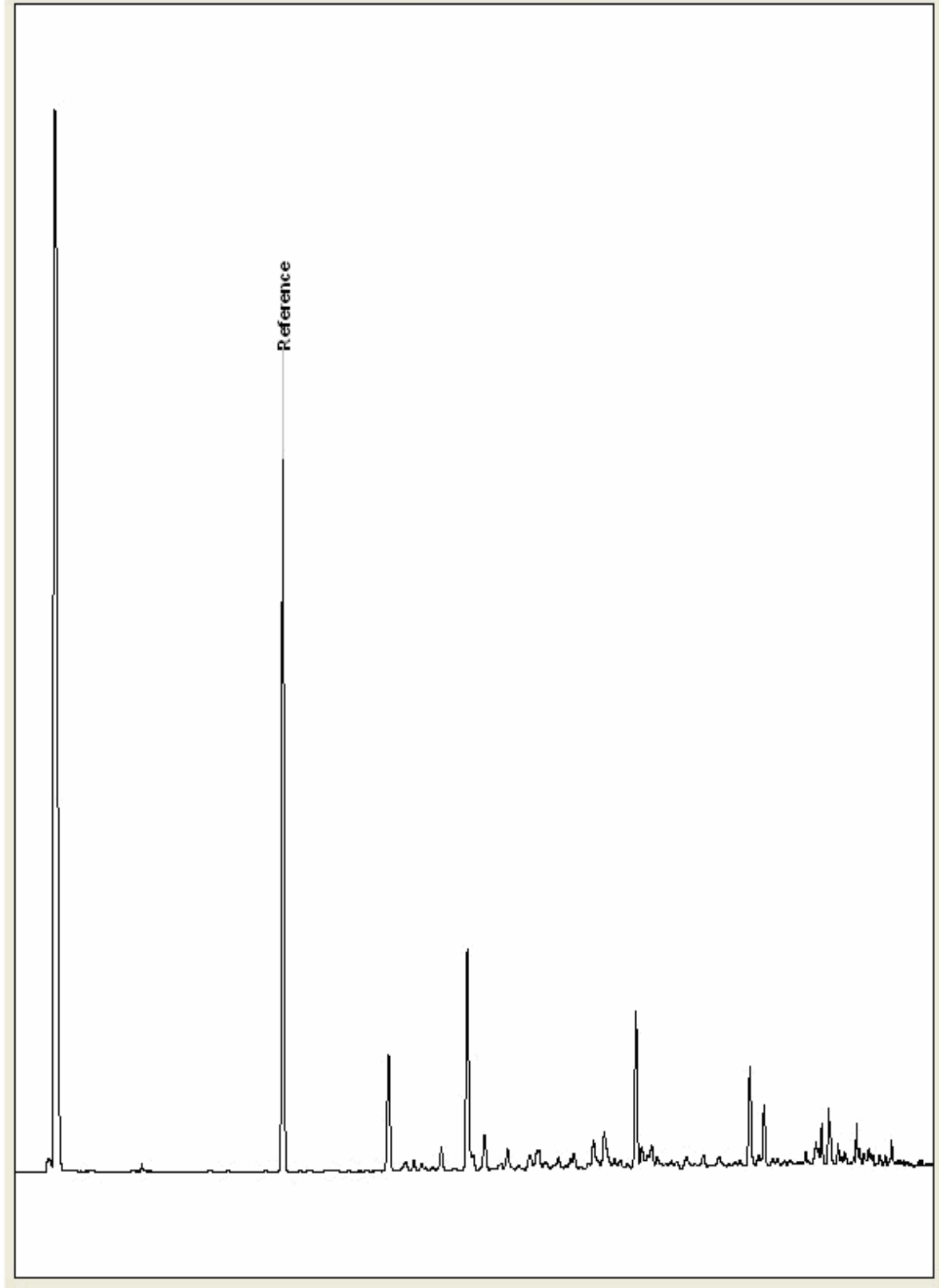
Chromatogram

Analysis: GRO by GC-FID (S)
19392472

Sample No :
Sample ID : BH220

19,392,472 Depth : 1.00 - 2.00

19392472_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

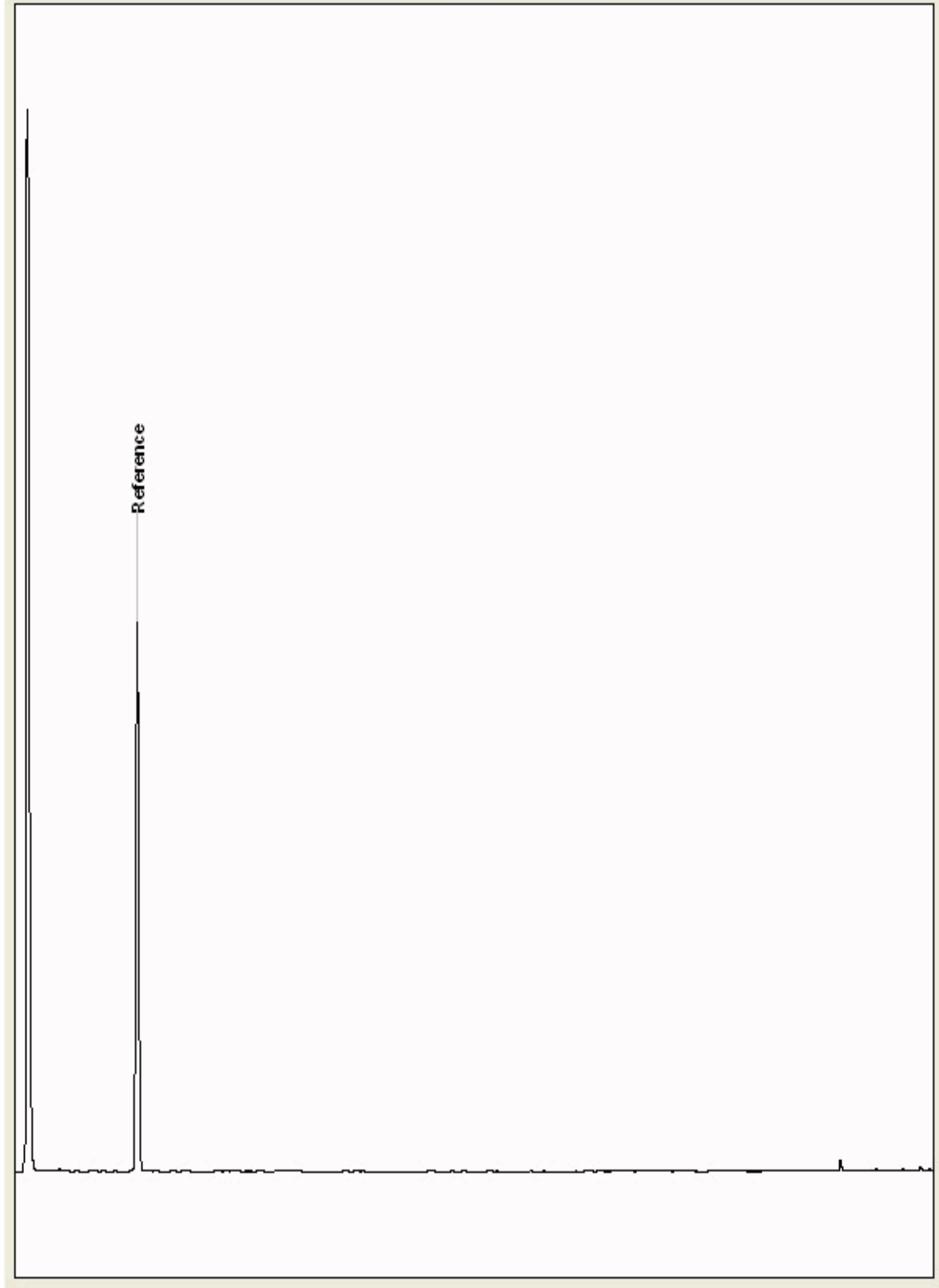
Chromatogram

Analysis: GRO by GC-FID (S)
19392838

Sample No :
Sample ID : BH209

19,392,838Depth :3.00 - 4.00

19392838_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

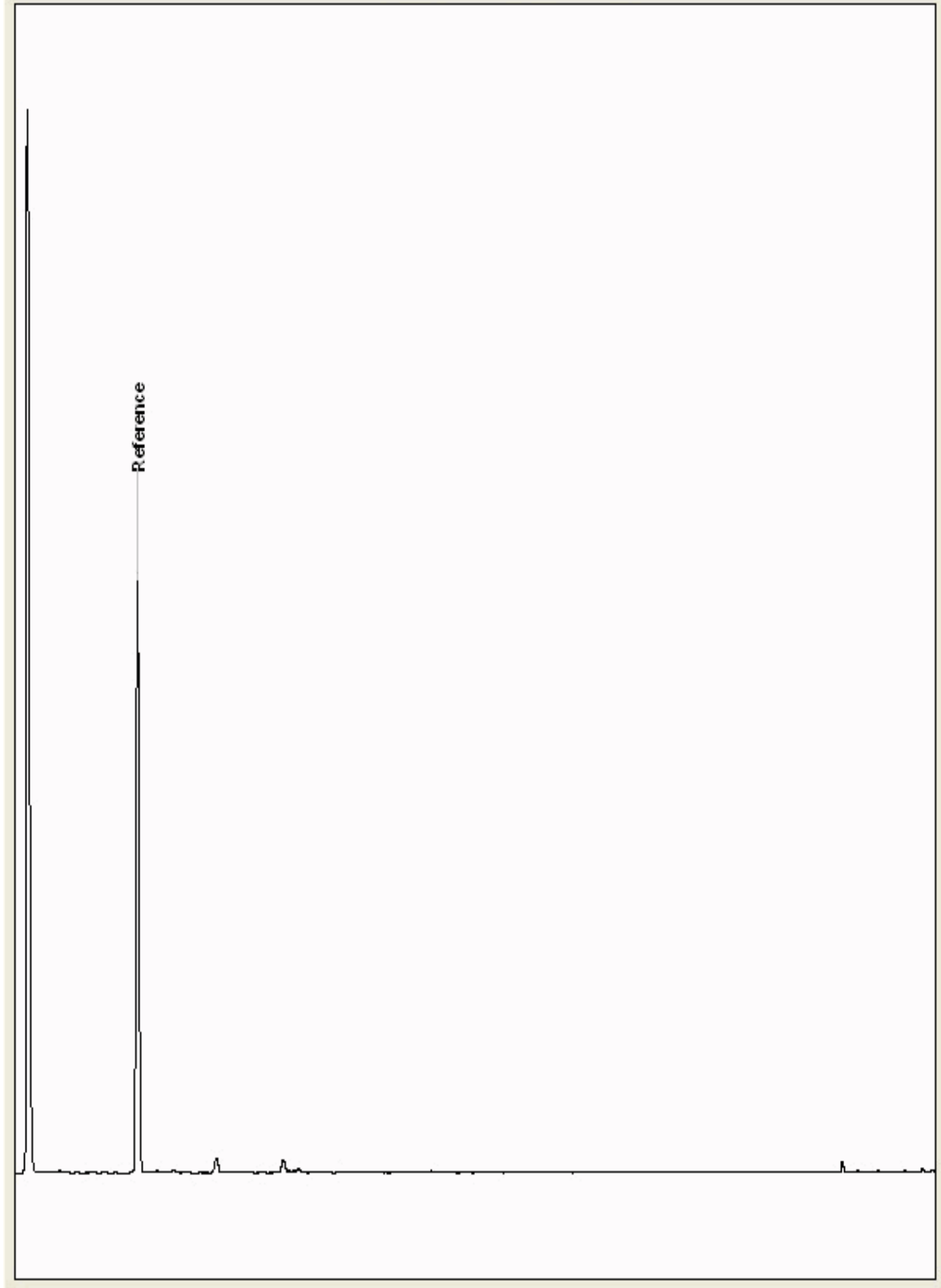
Chromatogram

Analysis: GRO by GC-FID (S)
19392853

Sample No :
Sample ID : BH220

19,392,853Depth :0.50 - 1.00

19392853_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

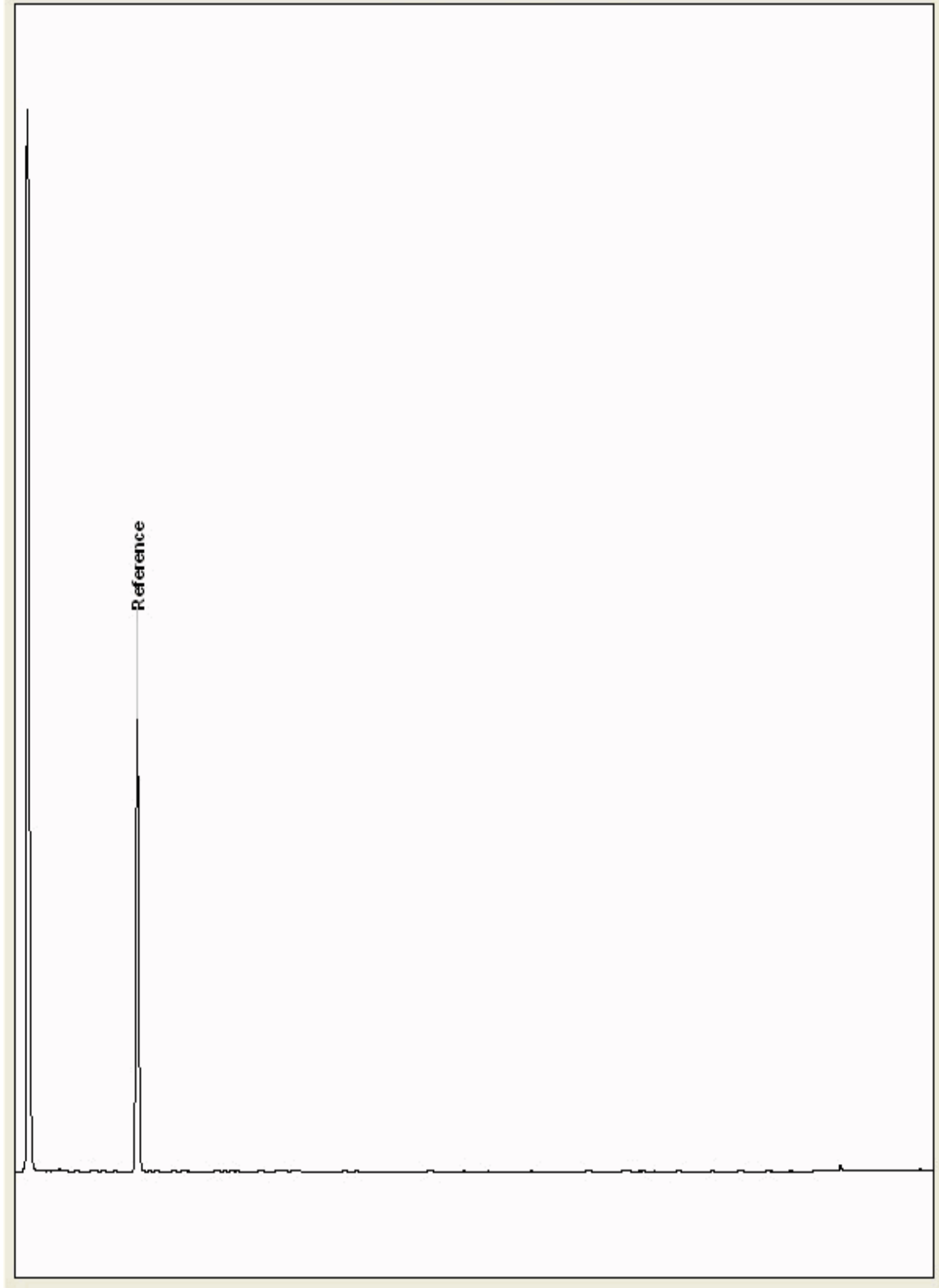
Chromatogram

Analysis: GRO by GC-FID (S)
19392882

Sample No :
Sample ID : BH209

19,392,882Depth :5.00 - 6.00

19392882_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

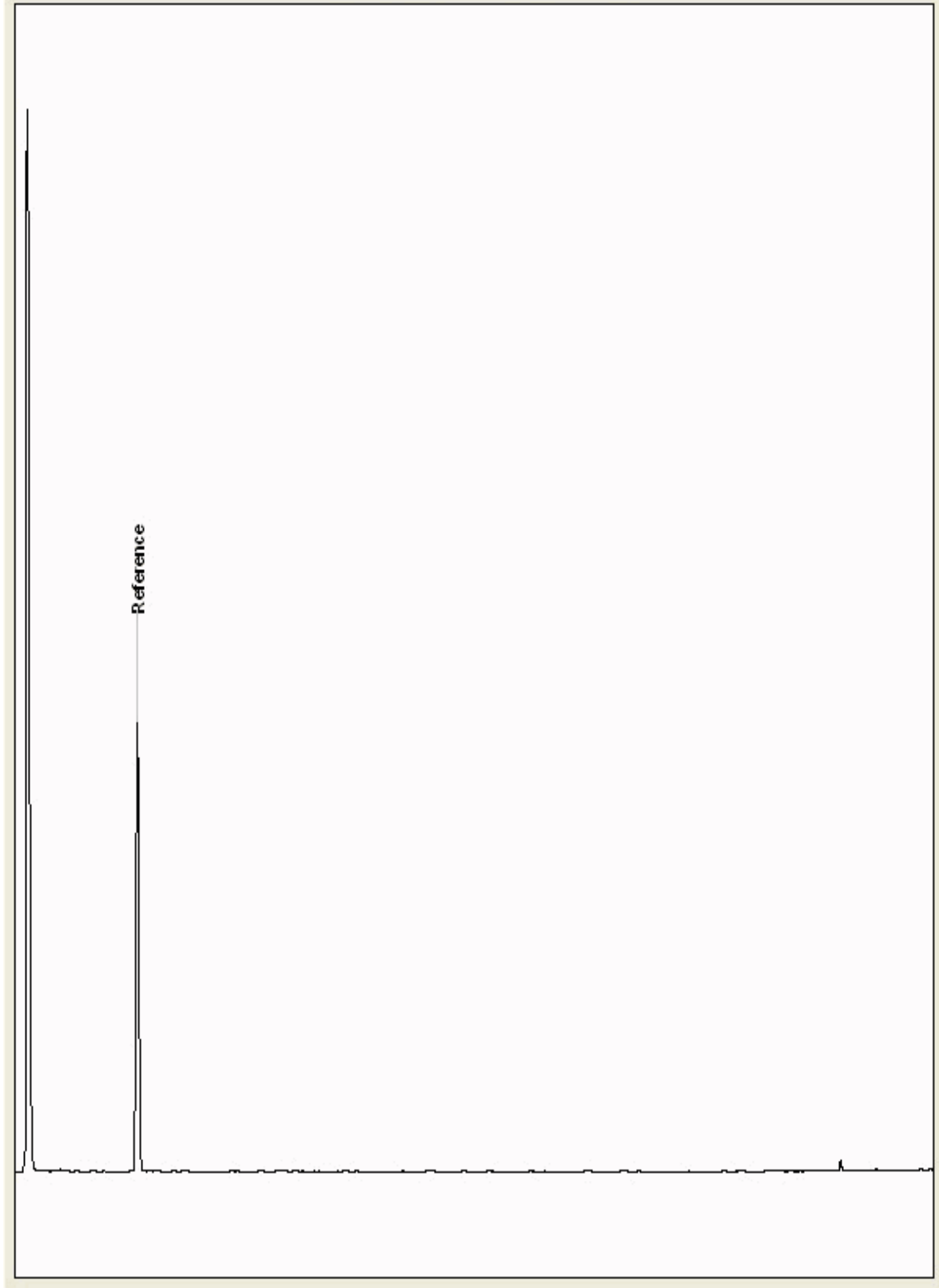
Chromatogram

Analysis: GRO by GC-FID (S)
19394801

Sample No :
Sample ID : BH207

19,394,801 **Depth :** 0.00 - 0.50

19394801_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

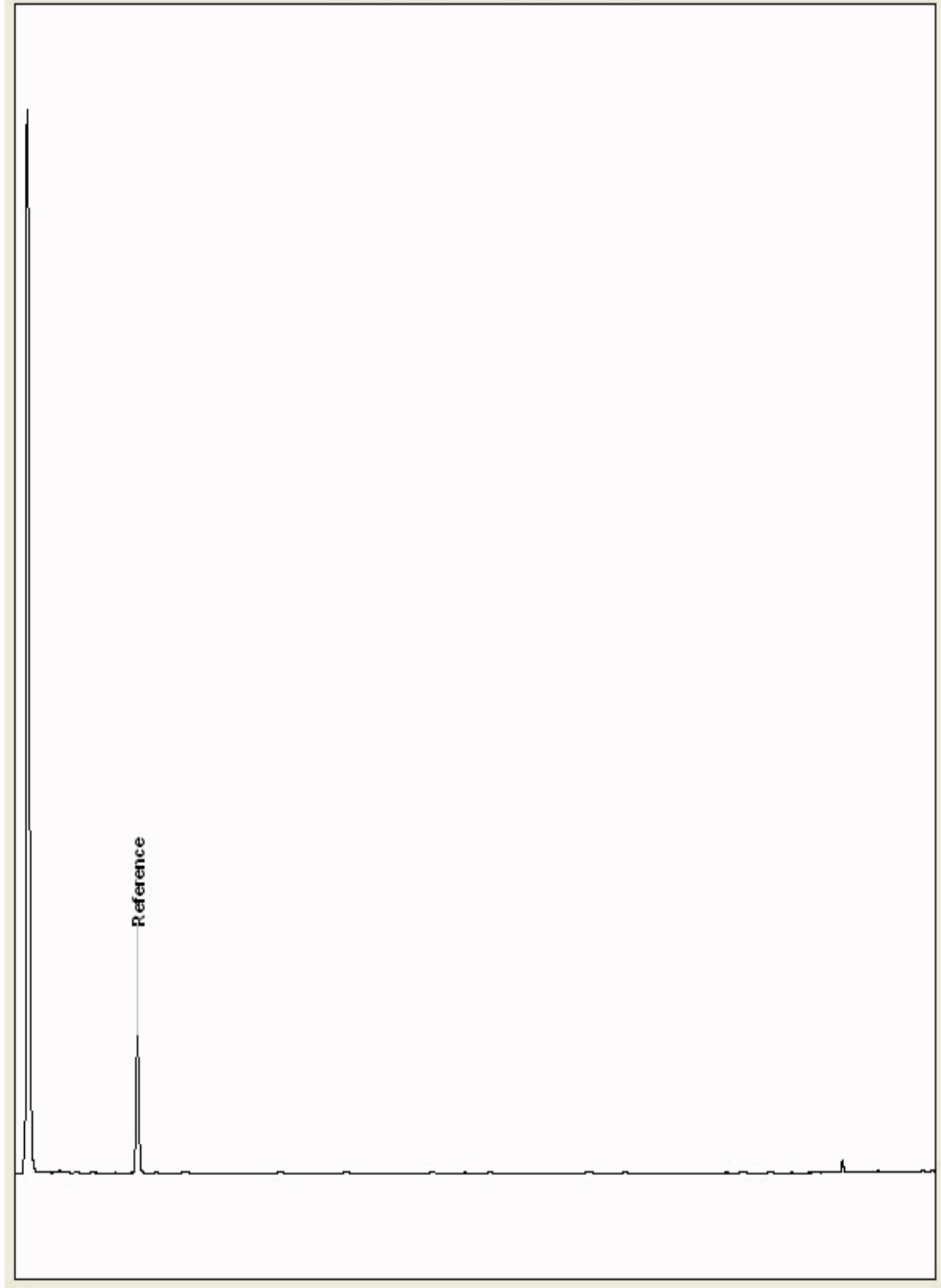
Chromatogram

Analysis: GRO by GC-FID (S)
19394812

Sample No :
Sample ID : BH208

19,394,812 Depth : 13.00 - 14.00

19394812_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

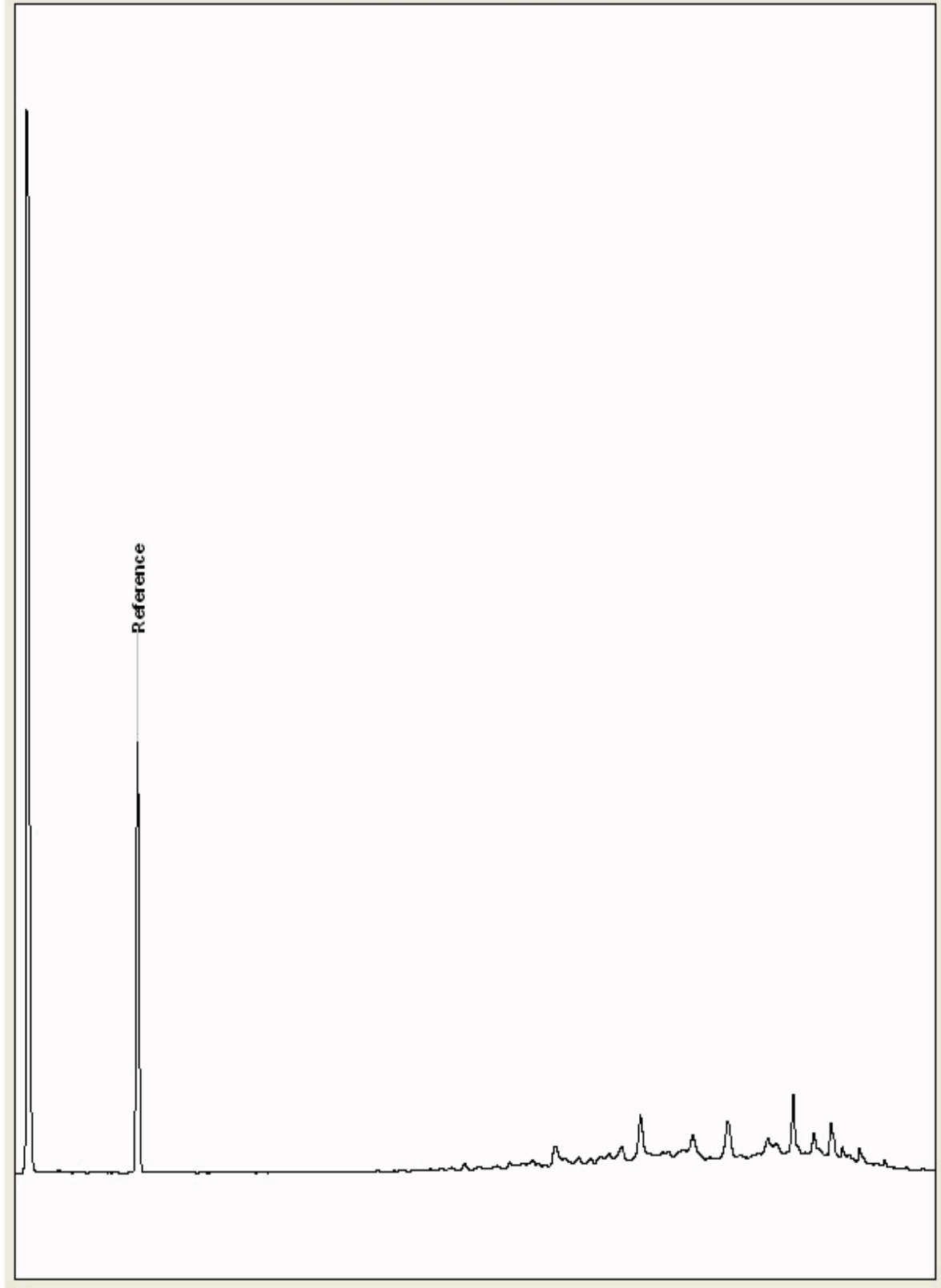
Chromatogram

Analysis: GRO by GC-FID (S)
19394872

Sample No :
Sample ID : BH209

19,394,872 Depth : 1.00 - 2.00

19394872_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

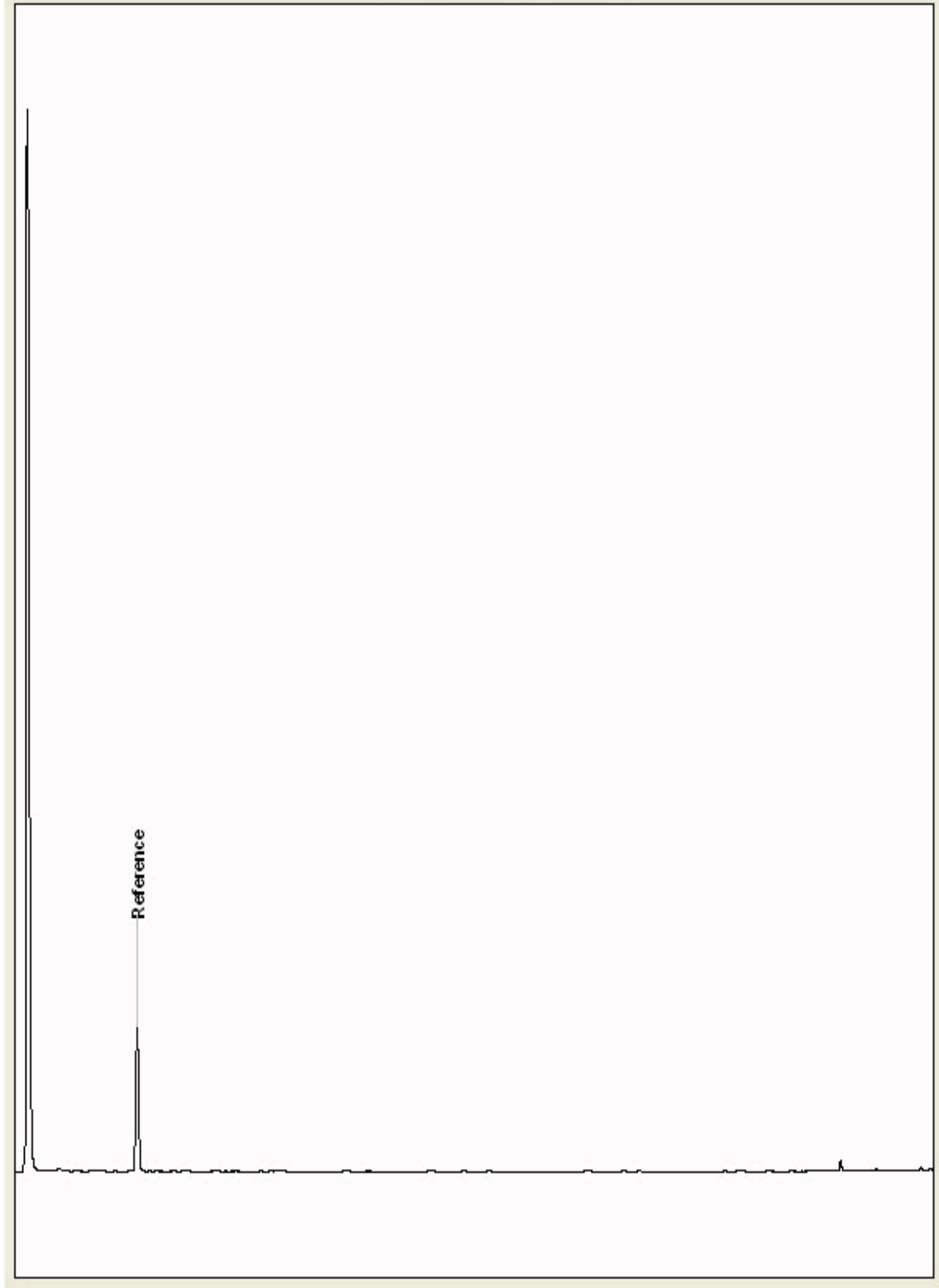
Chromatogram

Analysis: GRO by GC-FID (S)
19397579

Sample No :
Sample ID : BH220

19,397,579 Depth : 13.00 - 14.00

19397579_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

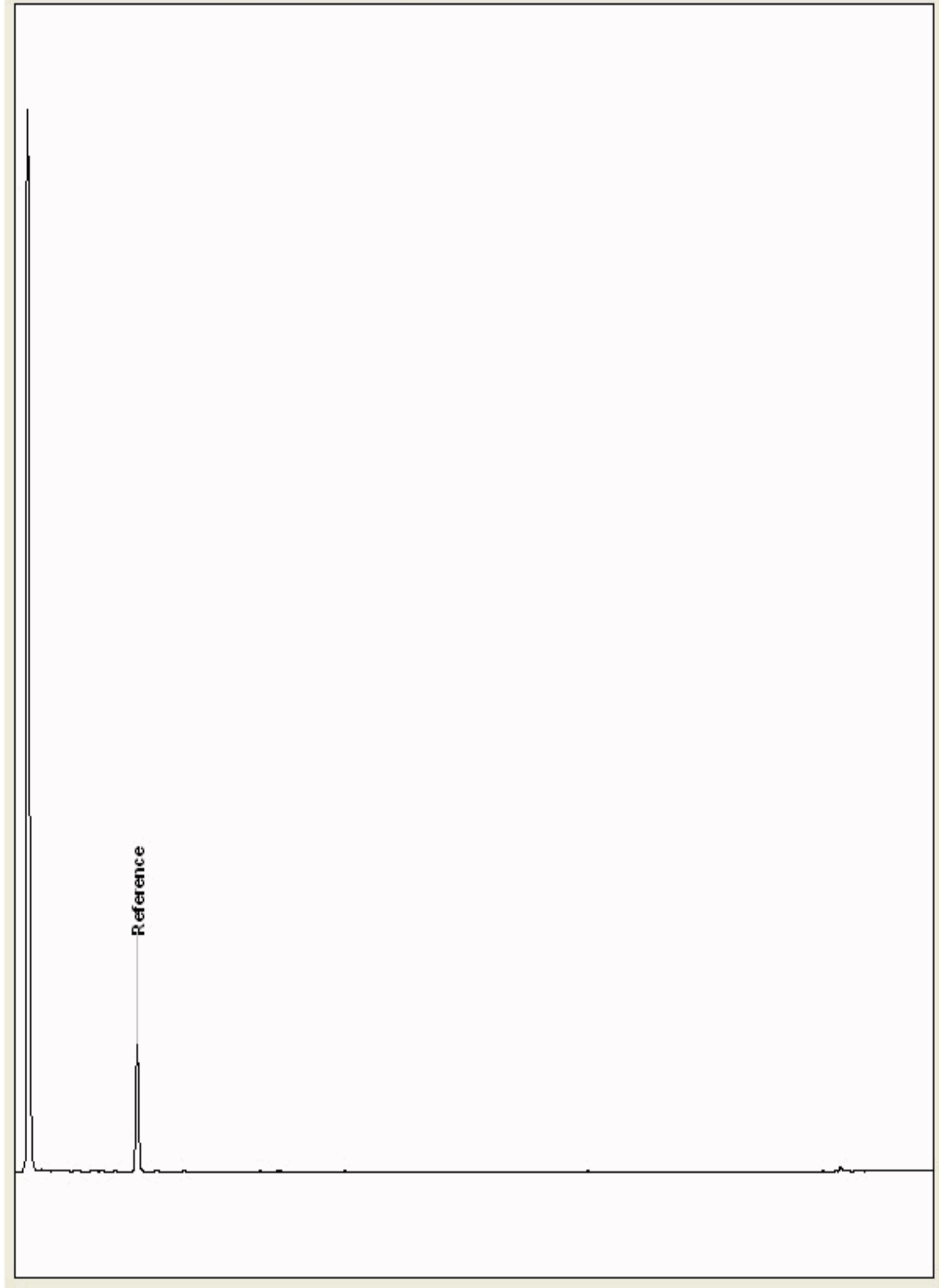
Chromatogram

Analysis: GRO by GC-FID (S)
19442194

Sample No :
Sample ID : BH220

19,442,194Depth : 14.00 - 15.00

19442194_GRO_S_27_02_2019 18_58_37.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	34
Your Reference:	602387	Samples Scheduled:	34

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19244434	BH247		0.50 - 1.00	25/01/2019
19244435	BH247		1.00 - 2.00	25/01/2019
19244447	BH247		12.00 - 13.00	25/01/2019
19244448	BH247		13.00 - 14.00	25/01/2019
19244450	BH247		15.00 - 16.00	25/01/2019
19244436	BH247		2.00 - 3.00	25/01/2019
19244437	BH247		3.00 - 4.00	25/01/2019
19244438	BH247		4.00 - 5.00	25/01/2019
19244441	BH247		6.00 - 7.00	25/01/2019
19244443	BH247		8.00 - 9.00	25/01/2019
19244444	BH247		9.00 - 10.00	25/01/2019
19244453	BH248		0.00 - 0.50	25/01/2019
19244454	BH248		0.50 - 1.00	25/01/2019
19244455	BH248		1.00 - 2.00	25/01/2019
19244468	BH248		10.00 - 11.00	25/01/2019
19244469	BH248		11.00 - 12.00	25/01/2019
19244473	BH248		13.00 - 14.00	25/01/2019
19244476	BH248		15.00 - 16.00	25/01/2019
19244459	BH248		2.00 - 3.00	25/01/2019
19244460	BH248		3.00 - 4.00	25/01/2019
19244463	BH248		5.00 - 6.00	25/01/2019
19244465	BH248		7.00 - 8.00	25/01/2019
19244481	BH249		0.00 - 0.50	29/01/2019
19244482	BH249		0.50 - 1.00	29/01/2019
19244484	BH249		1.00 - 2.00	29/01/2019
19244502	BH249		10.00 - 11.00	29/01/2019
19244505	BH249		12.00 - 13.00	29/01/2019
19244507	BH249		14.00 - 15.00	29/01/2019
19244509	BH249		16.00 - 17.00	29/01/2019
19244486	BH249		2.00 - 3.00	29/01/2019
19244491	BH249		4.00 - 5.00	29/01/2019
19244493	BH249		5.00 - 6.00	29/01/2019
19244494	BH249		6.00 - 7.00	29/01/2019
19244500	BH249		9.00 - 10.00	29/01/2019

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19244455	19244459	19244460	19244463	19244465	19244468	19244469	19244473	19244476	19244481	19244482	19244484	19244486	19244491
Customer Sample Reference	BH248	BH248	BH248	BH248	BH248	BH248	BH248	BH248	BH248	BH249	BH249	BH249	BH249	BH249
AGS Reference														
Depth (m)	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	15.00 - 16.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	4.00 - 5.00
Container	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 34		X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 34		X	X	X	X	X	X	X	X	X	X	X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 3								X					
CEN Readings	All	NDPs: 0 Tests: 34		X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 34		X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 34		X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 34		X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 34		X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19244491	19244493	19244494	19244500	19244502	19244505	19244507	19244509
Customer Sample Reference	BH249	BH249	BH249	BH249	BH249	BH249	BH249	BH249
AGS Reference								
Depth (m)	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00
Container	60g VOC (ALE215) 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 34	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19244491	19244493	19244494	19244500	19244502	19244505	19244507	19244509
Customer Sample Reference	BH249	BH249	BH249	BH249	BH249	BH249	BH249	BH249
AGS Reference								
Depth (m)	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00
Container	60g VOC (ALE215) 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB
PCBs by GCMS	All	NDPs: 0 Tests: 34		X	X	X	X	X
pH	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH247	BH247	BH247	BH247	BH247	BH247
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244434	19244435	19244447	19244448	19244450	19244436
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	16	21	7.2	8.3	8.2	24
Loss on ignition	<0.7 %	TM018	4.7	2.84	2.23	1.46	1.53	3.75
Mineral Oil Surrogate % recovery**	%	TM061	74.5	73.1	73.1	72.4	73.1	78.1
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	47.4	<1	5.44	18.5	765
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.32	1.53	0.492	0.587	0.691	1.95
pH	1 pH Units	TM133	7.91	7.86	8.58	8.47	8.27	7.49
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	19.2	11.8	11.4	8	10.3	9.39
Cadmium	<0.02 mg/kg	TM181	0.899	0.449	1.32	1.4	1.12	0.433
Chromium	<0.9 mg/kg	TM181	7.1	10.3	4.62	5.18	9.68	8.51
Copper	<1.4 mg/kg	TM181	143	38	14	18.8	26.8	34.3
Lead	<0.7 mg/kg	TM181	218	63.6	13.2	9.95	12.7	62.6
Mercury	<0.14 mg/kg	TM181	0.36	0.162	<0.14	<0.14	<0.14	0.286
Nickel	<0.2 mg/kg	TM181	41.6	20.1	19.5	26.5	33	16.1
Selenium	<1 mg/kg	TM181	<1	<1	1.51	2.25	2.76	<1
Zinc	<1.9 mg/kg	TM181	333	86.8	52.6	71	75.7	66.9
ANC @ pH 4	<0.03 mol/kg	TM182	0.957	1.26	0.793	1.79	1.52	1.36
ANC @ pH 6	<0.03 mol/kg	TM182	0.212	0.232	0.218	0.265	0.203	0.17
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH247	BH247	BH247	BH247	BH247	BH248
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244437	19244438	19244441	19244443	19244444	19244453
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	24	15	11	7.4	8.2	6.3
Loss on ignition	<0.7 %	TM018	5.08	4.06	<0.7	<0.7	1.08	3.46
Mineral Oil Surrogate % recovery**	%	TM061	76.9	72.1	74	71.8	71	74.1
Mineral oil >C10-C40	<1 mg/kg	TM061	398	36	27.5	4.24	<1	46.4
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	0.0448	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.48	2.18	0.341	0.277	0.214	3.97
pH	1 pH Units	TM133	7.74	7.74	8.18	9.05	9.29	11.1
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	9.41	10.6	5.61	5.07	5.21	11.8
Cadmium	<0.02 mg/kg	TM181	0.395	0.899	0.515	0.765	0.672	2.9
Chromium	<0.9 mg/kg	TM181	8.22	7.5	5.56	4.23	3.86	2.83
Copper	<1.4 mg/kg	TM181	35.6	29.3	8.61	7.56	6.82	155
Lead	<0.7 mg/kg	TM181	54.7	89.1	7.67	4.36	4.46	90.8
Mercury	<0.14 mg/kg	TM181	0.263	0.177	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	15.7	18.4	13.4	11.5	13.7	38.9
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	1.13	1.29
Zinc	<1.9 mg/kg	TM181	62.4	66.4	36.3	54.5	65.3	491
ANC @ pH 4	<0.03 mol/kg	TM182	0.252	0.308	1.28	4.59	5.31	0.167
ANC @ pH 6	<0.03 mol/kg	TM182	0.0494	0.0713	0.19	0.482	0.542	0.0769
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304						<0.001
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304						<0.001
Additional Asbestos Components (Using TM048)		TM304						None
Analysts Comments		TM304						N/A



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH248	BH248	BH248	BH248	BH248	BH248
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244454	19244455	19244468	19244469	19244473	19244476
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	14	23	12	10	9.6	8.6
Loss on ignition	<0.7 %	TM018	3.02	3.24	<0.7	1.23	4.23	2.89
Mineral Oil Surrogate % recovery**	%	TM061	73.1	73.3	72.6	73.6	76.6	72.1
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	<1	<1	<1	21.1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.68	1.71	0.288	0.32	0.557	0.658
pH	1 pH Units	TM133	10.4	7.93	9.28	9.21	8.57	8.48
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.8	8.48	4.84	6.35	8.03	9.5
Cadmium	<0.02 mg/kg	TM181	0.513	0.336	0.775	0.613	1.36	1.49
Chromium	<0.9 mg/kg	TM181	8.27	8.91	7.87	6.61	5.33	10
Copper	<1.4 mg/kg	TM181	21.4	26.2	5.65	8.38	18.1	24
Lead	<0.7 mg/kg	TM181	43.9	51	4.33	7.21	9.96	11.3
Mercury	<0.14 mg/kg	TM181	<0.14	0.31	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	15.5	15.3	16.2	15.9	25	33
Selenium	<1 mg/kg	TM181	1.15	<1	<1	1.12	2.25	2.75
Zinc	<1.9 mg/kg	TM181	113	57.5	67	61.7	77.8	67.9
ANC @ pH 4	<0.03 mol/kg	TM182	0.137	0.427	0.0733	0.182	0.903	1.5
ANC @ pH 6	<0.03 mol/kg	TM182	0.053	0.0594	0.0517	0.0742	0.217	0.291
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304		<0.001	#			
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304		<0.001	#			
Additional Asbestos Components (Using TM048)		TM304		None	#			
Analysts Comments		TM304		N/C				



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH248	BH248	BH248	BH248	BH249	BH249
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	0.00 - 0.50	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244459	19244460	19244463	19244465	19244481	19244482
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	29	22	14	8	15	13
Loss on ignition	<0.7 %	TM018	5.36	6.04	2.18	<0.7	3.39	4.84
Mineral Oil Surrogate % recovery**	%	TM061	73.2	74.2	76.5	74.8	87.1	86.5
Mineral oil >C10-C40	<1 mg/kg	TM061	2.49	1.29	1.33	<1	3.41	17.1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	0.0141	0.0128	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.96	2.46	0.882	0.24	3.5	3.03
pH	1 pH Units	TM133	7.8	7.81	8.22	8.27	8.51	8.33
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3		
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21		
PCB congener 28	<3 µg/kg	TM168					<3	<3
PCB congener 52	<3 µg/kg	TM168					<3	<3
PCB congener 101	<3 µg/kg	TM168					<3	<3
PCB congener 118	<3 µg/kg	TM168					<3	<3
PCB congener 138	<3 µg/kg	TM168					<3	<3
PCB congener 153	<3 µg/kg	TM168					<3	<3
PCB congener 180	<3 µg/kg	TM168					<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168					<21	<21
Arsenic	<0.6 mg/kg	TM181	14	10.3	7.77	8.13	18.5	12.7
Cadmium	<0.02 mg/kg	TM181	0.675	0.505	0.32	0.312	0.713	0.661
Chromium	<0.9 mg/kg	TM181	14	7.89	5.35	3.19	6.6	8.46
Copper	<1.4 mg/kg	TM181	41.2	34.2	12.2	6.76	55	50.4
Lead	<0.7 mg/kg	TM181	82.9	64.7	16.6	4.35	169	147
Mercury	<0.14 mg/kg	TM181	0.572	0.351	<0.14	<0.14	0.222	0.327
Nickel	<0.2 mg/kg	TM181	23.5	15.9	15.1	19	28.3	20.3



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH248	BH248	BH248	BH248	BH249	BH249
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	0.00 - 0.50	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244459	19244460	19244463	19244465	19244481	19244482
		AGS Reference						
Component	LOD/Units	Method						
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
			#	#	#	#	#	#
Zinc	<1.9 mg/kg	TM181	92.9	64.8	40.7	29.9	159	109
			M	M	M	M	M	M
ANC @ pH 4	<0.03 mol/kg	TM182	0.407	0.279	0.643	0.494	0.357	0.228
ANC @ pH 6	<0.03 mol/kg	TM182	0.0608	0.0714	0.0875	0.136	0.0649	0.0523
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304					3.13	#
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304					0.0021	#
Additional Asbestos Components (Using TM048)		TM304					None	#
Analysts Comments		TM304					N/C	
Asbestos Quantification - Total - %	<0.001 %	TM304					3.14	#
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH249	BH249	BH249	BH249	BH249	BH249
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244484	19244502	19244505	19244507	19244509	19244486
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	24	8.6	11	7.5	8.1	26
Loss on ignition	<0.7 %	TM018	4	1.01	0.877	1.89	2.02	3.88
Mineral Oil Surrogate % recovery**	%	TM061	66.4	72	87.5	76.1	85.9	74.1
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	<1	10.9	20.3	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.48	0.275	0.621	0.662	0.638	1.75
pH	1 pH Units	TM133	7.95	9.25	8.38	8.37	8.39	7.93
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168			<3	<3	<3	
PCB congener 52	<3 µg/kg	TM168			<3	<3	<3	
PCB congener 101	<3 µg/kg	TM168			<3	<3	<3	
PCB congener 118	<3 µg/kg	TM168			<3	<3	<3	
PCB congener 138	<3 µg/kg	TM168			<3	<3	<3	
PCB congener 153	<3 µg/kg	TM168			<3	<3	<3	
PCB congener 180	<3 µg/kg	TM168			<3	<3	<3	
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168			<21	<21	<21	
PCB congener 28	<3 µg/kg	TM168	<3	<3				<3
PCB congener 52	<3 µg/kg	TM168	<3	<3				<3
PCB congener 101	<3 µg/kg	TM168	<3	<3				<3
PCB congener 118	<3 µg/kg	TM168	<3	<3				<3
PCB congener 138	<3 µg/kg	TM168	<3	<3				<3
PCB congener 153	<3 µg/kg	TM168	<3	<3				<3
PCB congener 180	<3 µg/kg	TM168	<3	<3				<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21				<21
Arsenic	<0.6 mg/kg	TM181	8.82	5.8	8.79	9.61	9.66	14.4
Cadmium	<0.02 mg/kg	TM181	0.861	0.992	1.82	1.47	1.42	0.854
Chromium	<0.9 mg/kg	TM181	15.3	6.49	6.14	6.65	7.1	13.7
Copper	<1.4 mg/kg	TM181	28.6	8.4	20.4	23.4	23.7	30.5
Lead	<0.7 mg/kg	TM181	48.9	10.1	13.5	12.1	14.5	48.8
Mercury	<0.14 mg/kg	TM181	0.141	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	24.5	15.4	27.9	29.9	30.7	22.1



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH249	BH249	BH249	BH249	BH249	BH249
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244484	19244502	19244505	19244507	19244509	19244486
		AGS Reference						
Component	LOD/Units	Method						
Selenium	<1 mg/kg	TM181	<1	1.21	2.42	2.46	2.35	<1
			#	#	#	#	#	#
Zinc	<1.9 mg/kg	TM181	85.4	111	70.3	63.3	71	79.4
			M	M	M	M	M	M
ANC @ pH 4	<0.03 mol/kg	TM182	0.305	0.339	0.54	1.27	1.7	0.411
ANC @ pH 6	<0.03 mol/kg	TM182	0.0458	0.144	0.14	0.312	0.217	0.0458
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH249	BH249	BH249	BH249		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00		
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
aq	Aqueous / settled sample.		29/01/2019	29/01/2019	29/01/2019	29/01/2019		
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019		
tot.unfilt	Total / unfiltered sample.		190131-120	190131-120	190131-120	190131-120		
*	Subcontracted - refer to subcontractor report for accreditation status.		19244491	19244493	19244494	19244500		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	21	11	8.3	9.4		
Loss on ignition	<0.7 %	TM018	3.08	1.34	<0.7	0.963		
Mineral Oil Surrogate % recovery**	%	TM061	88.6	64.8	78.7	86.4		
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	<1	<1		
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01		
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01		
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015		
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01		
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015		
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06		
Organic Carbon, Total	<0.2 %	TM132	1.73	0.494	0.287	0.392		
pH	1 pH Units	TM133	7.72	8.25	8.52	9.19		
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6		
PCB congener 28	<3 µg/kg	TM168	<3		<3			
PCB congener 52	<3 µg/kg	TM168	<3		<3			
PCB congener 101	<3 µg/kg	TM168	<3		<3			
PCB congener 118	<3 µg/kg	TM168	<3		<3			
PCB congener 138	<3 µg/kg	TM168	<3		<3			
PCB congener 153	<3 µg/kg	TM168	<3		<3			
PCB congener 180	<3 µg/kg	TM168	<3		<3			
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21		<21			
PCB congener 28	<3 µg/kg	TM168		<3		<3		
PCB congener 52	<3 µg/kg	TM168		<3		<3		
PCB congener 101	<3 µg/kg	TM168		<3		<3		
PCB congener 118	<3 µg/kg	TM168		<3		<3		
PCB congener 138	<3 µg/kg	TM168		<3		<3		
PCB congener 153	<3 µg/kg	TM168		<3		<3		
PCB congener 180	<3 µg/kg	TM168		<3		<3		
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21		<21		
Arsenic	<0.6 mg/kg	TM181	10.4	7.79	56.9	10.1		
Cadmium	<0.02 mg/kg	TM181	0.614	0.764	0.41	0.791		
Chromium	<0.9 mg/kg	TM181	10.1	6.8	6.48	6.12		
Copper	<1.4 mg/kg	TM181	20.7	10.1	13.8	7.99		
Lead	<0.7 mg/kg	TM181	40.2	12.1	10.2	9.47		
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14		
Nickel	<0.2 mg/kg	TM181	17.3	17.4	12.4	14.6		



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH247	BH247	BH247	BH247	BH247	BH247
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244434	19244435	19244447	19244448	19244450	19244436
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	113	115	118	106	111	109
Acenaphthene-d10 % recovery**	%	TM218	104	117	115	109	110	110
Phenanthrene-d10 % recovery**	%	TM218	104	126	112	105	104	108
Chrysene-d12 % recovery**	%	TM218	101	134	106	96.7	88.3	100
Perylene-d12 % recovery**	%	TM218	101	132	99	89.6	74.7	99.5
Naphthalene	<9 µg/kg	TM218	32.3	22.8	10.9	15.2	24.4	64.8
Acenaphthylene	<12 µg/kg	TM218	20.3	15.5	<12	<12	<12	21.3
Acenaphthene	<8 µg/kg	TM218	13.1	17.1	<8	<8	<8	50.9
Fluorene	<10 µg/kg	TM218	26.4	36.8	<10	<10	27.3	89.2
Phenanthrene	<15 µg/kg	TM218	154	132	<15	36.7	70	228
Anthracene	<16 µg/kg	TM218	71.9	121	<16	<16	71	90.4
Fluoranthene	<17 µg/kg	TM218	284	381	<17	<17	<17	271
Pyrene	<15 µg/kg	TM218	228	295	<15	<15	<15	234
Benz(a)anthracene	<14 µg/kg	TM218	180	213	<14	<14	<14	135
Chrysene	<10 µg/kg	TM218	174	171	<10	<10	13.7	106
Benzo(b)fluoranthene	<15 µg/kg	TM218	207	212	<15	<15	<15	137
Benzo(k)fluoranthene	<14 µg/kg	TM218	93.7	86.7	<14	<14	<14	52.2
Benzo(a)pyrene	<15 µg/kg	TM218	140	140	<15	<15	<15	98.8
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	55.3	62.7	<18	<18	<18	43
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	83.2	60.7	<24	<24	<24	57.6
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1760	1970	<118	<118	206	1680



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH247	BH247	BH247	BH247	BH247	BH248
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244437	19244438	19244441	19244443	19244444	19244453
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	109	112	116	107	110	115
Acenaphthene-d10 % recovery**	%	TM218	112	112	110	110	109	113
Phenanthrene-d10 % recovery**	%	TM218	108	116	119	108	105	114
Chrysene-d12 % recovery**	%	TM218	101	121	127	104	101	114
Perylene-d12 % recovery**	%	TM218	101	118	126	105	99.9	100
Naphthalene	<9 µg/kg	TM218	42.8	14.9	83.2	<9	<9	68.2
			M	M	M	M	M	M
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	17.6
			M	M	M	M	M	M
Acenaphthene	<8 µg/kg	TM218	30	63.6	41	<8	<8	71.8
			M	M	M	M	M	M
Fluorene	<10 µg/kg	TM218	51.1	15.6	20	<10	<10	73.2
			M	M	M	M	M	M
Phenanthrene	<15 µg/kg	TM218	145	73.5	45.9	<15	<15	588
			M	M	M	M	M	M
Anthracene	<16 µg/kg	TM218	55.4	26.5	<16	<16	<16	149
			M	M	M	M	M	M
Fluoranthene	<17 µg/kg	TM218	171	67	39.5	<17	<17	767
			M	M	M	M	M	M
Pyrene	<15 µg/kg	TM218	152	56.9	28.8	<15	<15	670
			M	M	M	M	M	M
Benz(a)anthracene	<14 µg/kg	TM218	85	42.9	<14	<14	<14	359
			M	M	M	M	M	M
Chrysene	<10 µg/kg	TM218	77.6	35.6	<10	<10	<10	337
			M	M	M	M	M	M
Benzo(b)fluoranthene	<15 µg/kg	TM218	75.5	51.2	<15	<15	<15	498
			M	M	M	M	M	M
Benzo(k)fluoranthene	<14 µg/kg	TM218	30.2	20	<14	<14	<14	182
			M	M	M	M	M	M
Benzo(a)pyrene	<15 µg/kg	TM218	59.2	32.8	<15	<15	<15	340
			M	M	M	M	M	M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	24.9	<18	<18	<18	<18	213
			M	M	M	M	M	M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	37.4
			M	M	M	M	M	M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	34	<24	<24	<24	<24	241
			M	M	M	M	M	M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1030	500	258	<118	<118	4610



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH248	BH248	BH248	BH248	BH248	BH248
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244454	19244455	19244468	19244469	19244473	19244476
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	116	115	113	117	113	114
Acenaphthene-d10 % recovery**	%	TM218	114	115	110	113	103	113
Phenanthrene-d10 % recovery**	%	TM218	114	114	108	110	96.6	109
Chrysene-d12 % recovery**	%	TM218	103	98.6	94.5	99.9	86.5	105
Perylene-d12 % recovery**	%	TM218	95	90.7	86.6	92.1	77.4	89.5
Naphthalene	<9 µg/kg	TM218	33.4	<9	<9	<9	25.3	22.3
Acenaphthylene	<12 µg/kg	TM218	33.1	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	20.9	<8	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	61.4	20.3	<10	<10	<10	15.4
Phenanthrene	<15 µg/kg	TM218	345	71	<15	<15	21.4	50.2
Anthracene	<16 µg/kg	TM218	460	96.6	<16	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218	886	154	<17	<17	<17	<17
Pyrene	<15 µg/kg	TM218	656	117	<15	<15	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218	468	77	<14	<14	<14	<14
Chrysene	<10 µg/kg	TM218	364	57.5	<10	<10	<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	468	72.6	<15	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	223	28.1	<14	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	311	44.7	<15	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	112	<18	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	120	<24	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4560	739	<118	<118	<118	<118



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH248	BH248	BH248	BH248	BH249	BH249
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	0.00 - 0.50	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244459	19244460	19244463	19244465	19244481	19244482
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	115	107	110	105	97.4	97.5
Acenaphthene-d10 % recovery**	%	TM218	115	102	102	98.6	94.1	92.5
Phenanthrene-d10 % recovery**	%	TM218	115	104	100	95	92.8	93.1
Chrysene-d12 % recovery**	%	TM218	101	90.8	92.4	84.1	99.4	96.9
Perylene-d12 % recovery**	%	TM218	90.4	94.4	94.1	81.3	92	84
Naphthalene	<9 µg/kg	TM218	73.1	62.2	30.5	<9	43.2	54
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	57.5	58.2
Acenaphthene	<8 µg/kg	TM218	33.6	29.1	13.9	<8	43.9	33.1
Fluorene	<10 µg/kg	TM218	56.5	51.2	22.3	<10	44.2	43
Phenanthrene	<15 µg/kg	TM218	172	185	82.2	35.5	503	450
Anthracene	<16 µg/kg	TM218	112	71.1	28.3	<16	115	123
Fluoranthene	<17 µg/kg	TM218	217	225	85.2	26.1	1110	1130
Pyrene	<15 µg/kg	TM218	169	175	66	22.2	1030	974
Benz(a)anthracene	<14 µg/kg	TM218	95	103	45.3	<14	563	609
Chrysene	<10 µg/kg	TM218	81	102	42.3	11.1	496	516
Benzo(b)fluoranthene	<15 µg/kg	TM218	92.3	118	45.7	<15	852	855
Benzo(k)fluoranthene	<14 µg/kg	TM218	39.4	52.8	19.1	<14	345	267
Benzo(a)pyrene	<15 µg/kg	TM218	60.2	79	29	<15	522	539
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	26.7	<18	<18	<18	303	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	30.8	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	37.6	<24	<24	319	330
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1230	1290	510	<118	6370	5980



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH249	BH249	BH249	BH249	BH249	BH249
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244484	19244502	19244505	19244507	19244509	19244486
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	95.7	95.5	98.1	93.6	103	91.3
Acenaphthene-d10 % recovery**	%	TM218	92	91.3	91.3	95.4	94.8	93.4
Phenanthrene-d10 % recovery**	%	TM218	93.6	90.3	85.4	94.3	92.1	98.4
Chrysene-d12 % recovery**	%	TM218	77	73.3	88.2	83.6	80.4	95.3
Perylene-d12 % recovery**	%	TM218	79	75.6	75.4	70.9	70.1	95.5
Naphthalene	<9 µg/kg	TM218	<9	13.5	<9	15.6	21.8	<9
			@ M	@ M	M	@ M	M	@ M
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12
			@ M	@ M	M	@ M	M	@ M
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	<8	<8
			@ M	@ M	M	@ M	M	@ M
Fluorene	<10 µg/kg	TM218	<10	<10	<10	<10	15.4	<10
			@ M	@ M	M	@ M	M	@ M
Phenanthrene	<15 µg/kg	TM218	48.1	22.3	<15	48.7	53.2	28.6
			@ M	@ M	M	@ M	M	@ M
Anthracene	<16 µg/kg	TM218	<16	<16	<16	<16	<16	<16
			@ M	@ M	M	@ M	M	@ M
Fluoranthene	<17 µg/kg	TM218	83.8	29	<17	<17	<17	53.1
			@ M	@ M	M	@ M	M	@ M
Pyrene	<15 µg/kg	TM218	65.5	27	<15	<15	<15	40.8
			@ M	@ M	M	@ M	M	@ M
Benz(a)anthracene	<14 µg/kg	TM218	56	20	<14	18.6	<14	32.8
			@ M	@ M	M	@ M	M	@ M
Chrysene	<10 µg/kg	TM218	45.6	17.1	<10	<10	<10	20.2
			@ M	@ M	M	@ M	M	@ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	53.6	<15	<15	<15	<15	29.6
			@ M	@ M	M	@ M	M	@ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	<14	<14
			@ M	@ M	M	@ M	M	@ M
Benzo(a)pyrene	<15 µg/kg	TM218	47.7	<15	<15	<15	<15	23.7
			@ M	@ M	M	@ M	M	@ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	<18	<18
			@ M	@ M	M	@ M	M	@ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
			@ M	@ M	M	@ M	M	@ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	32.4	<24	<24	<24	<24	<24
			@ M	@ M	M	@ M	M	@ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	433	129	<118	<118	<118	229



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH249	BH249	BH249	BH249		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00		
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
aq	Aqueous / settled sample.		29/01/2019	29/01/2019	29/01/2019	29/01/2019		
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019		
tot.unfilt	Total / unfiltered sample.		190131-120	190131-120	190131-120	190131-120		
*	Subcontracted - refer to subcontractor report for accreditation status.		19244491	19244493	19244494	19244500		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	102	93.1	92.6	96.1		
Acenaphthene-d10 % recovery**	%	TM218	94.5	88.8	93.8	90.5		
Phenanthrene-d10 % recovery**	%	TM218	88.7	89	97.8	87.8		
Chrysene-d12 % recovery**	%	TM218	95.1	72.5	90.9	89.8		
Perylene-d12 % recovery**	%	TM218	91.1	74.3	90	81.2		
Naphthalene	<9 µg/kg	TM218	<9	<9	<9	<9		
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12		
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8		
Fluorene	<10 µg/kg	TM218	<10	<10	<10	<10		
Phenanthrene	<15 µg/kg	TM218	76	<15	<15	<15		
Anthracene	<16 µg/kg	TM218	32.2	<16	<16	<16		
Fluoranthene	<17 µg/kg	TM218	180	<17	<17	<17		
Pyrene	<15 µg/kg	TM218	164	<15	<15	<15		
Benz(a)anthracene	<14 µg/kg	TM218	101	18	<14	<14		
Chrysene	<10 µg/kg	TM218	63.2	11.4	<10	<10		
Benzo(b)fluoranthene	<15 µg/kg	TM218	120	<15	<15	<15		
Benzo(k)fluoranthene	<14 µg/kg	TM218	46.5	<14	<14	<14		
Benzo(a)pyrene	<15 µg/kg	TM218	80.4	<15	<15	<15		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	44.2	<18	<18	<18		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23		
Benzo(g,h,i)perylene	<24 µg/kg	TM218	46.3	<24	<24	<24		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	954	<118	<118	<118		



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH247	BH247	BH247	BH247	BH247	BH247	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 1.00	1.00 - 2.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	
tot.unfilt	Total / unfiltered sample.		190131-120	190131-120	190131-120	190131-120	190131-120	190131-120	
*	Subcontracted - refer to subcontractor report for accreditation status.		19244434	19244435	19244447	19244448	19244450	19244436	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
GRO Surrogate % recovery**	%		TM089	72.9 @	85.4 @	23 @	15.8 @	10.2 @	104 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @ M	578 @ M	<100 @ M	<100 @ M	<100 @ M	11800 @ M	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	36.8 @	<10 @	<10 @	<10 @	56.8 @	
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	68.6 @	<10 @	<10 @	<10 @	123 @	
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	135 @	<10 @	<10 @	<10 @	991 @	
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	147 @	<10 @	<10 @	<10 @	5990 @	
Aliphatics >C12-C16	<100 µg/kg	TM173	1160	1270	<100	1240	3680	127000	
Aliphatics >C16-C21	<100 µg/kg	TM173	2940	<100	<100	433	3490	131000	
Aliphatics >C21-C35	<100 µg/kg	TM173	14200	34200	<100	14200	19500	1420000	
Aliphatics >C35-C44	<100 µg/kg	TM173	857	13800	<100	5740	7800	714000	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	19200	49200	<100	21600	34400	2390000	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	90.2 @	<10 @	<10 @	<10 @	661 @	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	99.1 @	<10 @	<10 @	<10 @	3990 @	
Aromatics >EC12-EC16	<100 µg/kg	TM173	1620	1280	<100	<100	1740	48300	
Aromatics >EC16-EC21	<100 µg/kg	TM173	8170	5510	<100	2060	2840	87600	
Aromatics >EC21-EC35	<100 µg/kg	TM173	35500	28900	<100	8890	9940	569000	
Aromatics >EC35-EC44	<100 µg/kg	TM173	5910	10400	<100	1130	1250	313000	
Aromatics >EC40-EC44	<100 µg/kg	TM173	961	2900	<100	<100	<100	105000	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	51200	46100	<100	12100	15800	1020000	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	70400	95900	<100	33700	50200	3420000	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH247	BH247	BH247	BH247	BH247	BH248
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244437	19244438	19244441	19244443	19244444	19244453
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	80.1	80.9	76.5	89.8	89	55
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	4110	585	457	<100	<100	1070
Aliphatics >C5-C6	<10 µg/kg	TM089	56.8	30.7	21.3	<10	<10	43.7
Aliphatics >C6-C8	<10 µg/kg	TM089	91.1	40.1	44.8	<10	<10	115
Aliphatics >C8-C10	<10 µg/kg	TM089	458	92	65	<10	<10	157
Aliphatics >C10-C12	<10 µg/kg	TM089	1920	215	167	<10	<10	384
Aliphatics >C12-C16	<100 µg/kg	TM173	79400	5260	1140	<100	<100	429
Aliphatics >C16-C21	<100 µg/kg	TM173	87400	6240	2010	<100	<100	3150
Aliphatics >C21-C35	<100 µg/kg	TM173	956000	73300	27000	5660	<100	25500
Aliphatics >C35-C44	<100 µg/kg	TM173	479000	34700	12500	3320	<100	7070
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1600000	119000	42600	8980	<100	36200
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	305	61.4	43.7	<10	<10	105
Aromatics >EC10-EC12	<10 µg/kg	TM089	1280	143	111	<10	<10	256
Aromatics >EC12-EC16	<100 µg/kg	TM173	27500	3210	1310	<100	<100	1390
Aromatics >EC16-EC21	<100 µg/kg	TM173	64200	9330	4990	<100	<100	8530
Aromatics >EC21-EC35	<100 µg/kg	TM173	352000	52200	18500	<100	<100	29000
Aromatics >EC35-EC44	<100 µg/kg	TM173	180000	20100	3240	<100	<100	7820
Aromatics >EC40-EC44	<100 µg/kg	TM173	57300	6690	<100	<100	<100	2180
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	624000	84900	28100	<100	<100	46800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2230000	205000	71200	8980	<100	84000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH248	BH248	BH248	BH248	BH249	BH249
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	0.00 - 0.50	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244459	19244460	19244463	19244465	19244481	19244482
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	101	85	98	93	76	90.6
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	656	539	670	<100	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	46.5	28.2	36	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	114	88.3	116	<10	18.9	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	158	105	153	<10	13	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	140	150	154	<10	14.2	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	2000	<100	<100	1960	1350	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	6060	2780	2680	4150	4300	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	14600	4750	25800	15600	11300	24100
Aliphatics >C35-C44	<100 µg/kg	TM173	2390	1270	13900	4080	3290	44000
Total Aliphatics >C12-C44	<100 µg/kg	TM173	25000	8810	42300	25800	20300	68100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	104	69.1	102	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	93.1	99.8	103	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	3040	1420	1290	<100	4170	1200
Aromatics >EC16-EC21	<100 µg/kg	TM173	24400	14100	7430	1950	31800	7770
Aromatics >EC21-EC35	<100 µg/kg	TM173	73600	30500	28800	6800	91300	71900
Aromatics >EC35-EC44	<100 µg/kg	TM173	14600	4430	9970	1130	23600	83400
Aromatics >EC40-EC44	<100 µg/kg	TM173	3670	1410	4030	<100	7490	39800
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	116000	50400	47500	9880	151000	164000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	141000	59800	90500	35700	171000	232000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH247	BH247	BH247	BH247	BH247	BH247
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-120	190131-120	190131-120	190131-120	190131-120	190131-120
		Lab Sample No.(s)	19244434	19244435	19244447	19244448	19244450	19244436
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	130	130	124	103	104	103
Toluene-d8**	%	TM116	101	99.7	99.9	100	101	102
4-Bromofluorobenzene**	%	TM116	86	84.5	91.8	101	101	101
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<2000	<2000	<2000
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<180	<180	<180	<1800	<1800	<1800
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<140	<140	<140	<1400	<1400	<1400
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<800	<800	<800
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<2000	<2000	<2000
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<2000	<2000	<2000
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<4	<4	<4
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<8000	<8000	<8000



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+§@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
07/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
06/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
07/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH247 NS Z 2.00 - 3.00 SOLID 25/01/2019 00:00:00 06/02/2019 10:10:47 190131-120 19,244,436 TM048	07/02/2019	Renata Bozhkov	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH247 NS Z 2.00 - 3.00 SOLID 25/01/2019 00:00:00 02/02/2019 11:18:37 190131-120 19,244,437 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH247 NS Z 4.00 - 5.00 SOLID 25/01/2019 00:00:00 02/02/2019 11:22:13 190131-120 19,244,438 TM048	06/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH247 NS Z 6.00 - 7.00 SOLID 25/01/2019 00:00:00 06/02/2019 10:13:33 190131-120 19,244,441 TM048	7/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH247 NS Z 8.00 - 9.00 SOLID 25/01/2019 00:00:00 06/02/2019 09:58:58 190131-120 19,244,443 TM048	07/02/2019	Renata Bozhkov	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH247 NS Z 9.00 - 10.00 SOLID 25/01/2019 00:00:00 06/02/2019 10:15:23 190131-120 19,244,444 TM048	7/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 0.00 - 0.50 SOLID 25/01/2019 00:00:00 02/02/2019 13:03:18 190131-120 19,244,453 TM048	06/02/2019	Lucy Caroe	Soil containing ACM debris	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 0.50 - 1.00 SOLID 25/01/2019 00:00:00 02/02/2019 12:59:27 190131-120 19,244,454 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 1.00 - 2.00 SOLID 25/01/2019 00:00:00 02/02/2019 12:57:30 190131-120 19,244,455 TM048	06/02/2019	Lucy Caroe	Soil containing ACM debris	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 10.00 - 11.00 SOLID 25/01/2019 00:00:00 02/02/2019 11:52:50 190131-120 19,244,468 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 11.00 - 12.00 SOLID 25/01/2019 00:00:00 02/02/2019 11:50:58 190131-120 19,244,469 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 13.00 - 14.00 SOLID 25/01/2019 00:00:00 05/02/2019 11:55:18 190131-120 19,244,473 TM048	7/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 15.00 - 16.00 SOLID 25/01/2019 00:00:00 05/02/2019 11:53:51 190131-120 19,244,476 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 15.00 - 16.00 SOLID 25/01/2019 00:00:00 02/02/2019 13:01:13 190131-120 19,244,459 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 3.00 - 4.00 SOLID 25/01/2019 00:00:00 02/02/2019 11:43:06 190131-120 19,244,460 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 5.00 - 6.00 SOLID 25/01/2019 00:00:00 02/02/2019 11:40:01 190131-120 19,244,463 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 7.00 - 8.00 SOLID 25/01/2019 00:00:00 02/02/2019 11:47:12 190131-120 19,244,465 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 0.00 - 0.50 SOLID 29/01/2019 00:00:00 09/02/2019 12:06:46 190131-120 19,244,481 TM048	13/02/2019	James Richards	Material typical of asbestos cement debris	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 0.50 - 1.00 SOLID 29/01/2019 00:00:00 09/02/2019 12:09:24 190131-120 19,244,482 TM048	13/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 0.50 - 2.00 SOLID 29/01/2019 00:00:00 05/02/2019 11:58:34 190131-120 19,244,484 TM048	13/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 1.00 - 11.00 SOLID 29/01/2019 00:00:00 09/02/2019 11:48:21 190131-120 19,244,502 TM048	12/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 12.00 - 13.00 SOLID 29/01/2019 00:00:00 09/02/2019 11:50:26 190131-120 19,244,505 TM048	13/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 14.00 - 15.00 SOLID 29/01/2019 00:00:00 09/02/2019 11:56:03 190131-120 19,244,507 TM048	12/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 16.00 - 17.00 SOLID 29/01/2019 00:00:00 06/02/2019 10:11:04 190131-120 19,244,509 TM048	13/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 2.00 - 3.00 SOLID 29/01/2019 00:00:00 09/02/2019 12:12:17 190131-120 19,244,486 TM048	13/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 4.00 - 5.00 SOLID 29/01/2019 00:00:00 09/02/2019 12:18:14 190131-120 19,244,491 TM048	13/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 5.00 - 6.00 SOLID 29/01/2019 00:00:00 09/02/2019 11:48:42 190131-120 19,244,493 TM048	13/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 6.00 - 7.00 SOLID 29/01/2019 00:00:00 09/02/2019 11:46:04 190131-120 19,244,494 TM048	13/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 9.00 - 10.00 SOLID 29/01/2019 00:00:00 09/02/2019 11:47:14 190131-120 19,244,500 TM048	13/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Asbestos Quantification - Full



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend

ISO17025 accredited.
 * mCERTS accredited.
 Subcontracted test.
 (F) Trigger breach confirmed
 1-5	@ Sample deviation (see appendix)

Results Legend		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 0.00 - 0.50 SOLID 25/01/2019 00:00:00 11/02/2019 08:32:33 190131-120 19,244,453 TM304	None	N/A	<0.001	<0.001	<0.001
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH248 NS Z 1.00 - 2.00 SOLID 25/01/2019 00:00:00 11/02/2019 08:31:06 190131-120 19,244,455 TM304	None	N/C	<0.001	<0.001	<0.001
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH249 NS Z 0.00 - 0.50 SOLID 29/01/2019 00:00:00 15/02/2019 14:18:25 190131-120 19,244,481 TM304	None	N/C	3.1332	0.0021	3.1353



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244434
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.32
Loss on Ignition (%)	4.70
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.212
ANC to pH 4 (mol/kg)	0.957

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.004	<0.0005	0.04	<0.005	0.5	2	25
Barium	0.0539	<0.0002	0.539	<0.002	20	100	300
Cadmium	0.0000974	<0.00008	0.000974	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00324	<0.0003	0.0324	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0739	<0.003	0.739	<0.03	0.5	10	30
Nickel	0.00243	<0.0004	0.0243	<0.004	0.4	10	40
Lead	0.000529	<0.0002	0.00529	<0.002	0.5	10	50
Antimony	0.0103	<0.001	0.103	<0.01	0.06	0.7	5
Selenium	0.00215	<0.001	0.0215	<0.01	0.1	0.5	7
Zinc	0.00505	<0.001	0.0505	<0.01	4	50	200
Chloride	9.3	<2	93	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.2	<2	562	<20	1000	20000	50000
Total Dissolved Solids	203	<5	2030	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.66	<3	56.6	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	278
Temperature (°C)	16.70
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244434
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.32
Loss on Ignition (%)	4.70
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.212
ANC to pH 4 (mol/kg)	0.957

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	278
Temperature (°C)	16.70
Volume Leachant (Litres)	0.883

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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244435
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.53
Loss on Ignition (%)	2.84
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	47.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.232
ANC to pH 4 (mol/kg)	1.26

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00284	<0.0005	0.0284	<0.005	0.5	2	25
Barium	0.0269	<0.0002	0.269	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00244	<0.0003	0.0244	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0353	<0.003	0.353	<0.03	0.5	10	30
Nickel	0.00225	<0.0004	0.0225	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00757	<0.001	0.0757	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00832	<0.001	0.0832	<0.01	4	50	200
Chloride	2.8	<2	28	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	112	<2	1120	<20	1000	20000	50000
Total Dissolved Solids	284	<5	2840	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.97	<3	79.7	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.88
Conductivity (µS/cm)	383
Temperature (°C)	173.00
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244435
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.53
Loss on Ignition (%)	2.84
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	47.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.232
ANC to pH 4 (mol/kg)	1.26

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.88
Conductivity (µS/cm)	383
Temperature (°C)	173.00
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244436
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.95
Loss on Ignition (%)	3.75
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	765
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.49
ANC to pH 6 (mol/kg)	0.170
ANC to pH 4 (mol/kg)	1.36

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00257	<0.0005	0.0257	<0.005	0.5	2	25
Barium	0.0115	<0.0002	0.115	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0331	<0.003	0.331	<0.03	0.5	10	30
Nickel	0.00112	<0.0004	0.0112	<0.004	0.4	10	40
Lead	0.000232	<0.0002	0.00232	<0.002	0.5	10	50
Antimony	0.00505	<0.001	0.0505	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00106	<0.001	0.0106	<0.01	4	50	200
Chloride	7.7	<2	77	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	38.1	<2	381	<20	1000	20000	50000
Total Dissolved Solids	171	<5	1710	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.71	<3	97.1	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	6.65
Conductivity (µS/cm)	234
Temperature (°C)	16.60
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:48:20



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244436
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.95
Loss on Ignition (%)	3.75
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	765
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.49
ANC to pH 6 (mol/kg)	0.170
ANC to pH 4 (mol/kg)	1.36

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	6.65
Conductivity (µS/cm)	234
Temperature (°C)	16.60
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:48:20



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244437
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.48
Loss on Ignition (%)	5.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	398
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0494
ANC to pH 4 (mol/kg)	0.252

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00342	<0.0005	0.0342	<0.005	0.5	2	25
Barium	0.0102	<0.0002	0.102	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0267	<0.003	0.267	<0.03	0.5	10	30
Nickel	0.000903	<0.0004	0.00903	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00378	<0.001	0.0378	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00473	<0.001	0.0473	<0.01	4	50	200
Chloride	8.2	<2	82	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47.6	<2	476	<20	1000	20000	50000
Total Dissolved Solids	193	<5	1930	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.93	<3	99.3	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.04
Conductivity (µS/cm)	248
Temperature (°C)	16.50
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244437
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.48
Loss on Ignition (%)	5.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	398
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0494
ANC to pH 4 (mol/kg)	0.252

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.04
Conductivity (µS/cm)	248
Temperature (°C)	16.50
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244438
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.18
Loss on Ignition (%)	4.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	36.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0713
ANC to pH 4 (mol/kg)	0.308

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00376	<0.0005	0.0376	<0.005	0.5	2	25
Barium	0.0119	<0.0002	0.119	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0316	<0.003	0.316	<0.03	0.5	10	30
Nickel	0.00193	<0.0004	0.0193	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00526	<0.001	0.0526	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00246	<0.001	0.0246	<0.01	4	50	200
Chloride	3.2	<2	32	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	98.9	<2	989	<20	1000	20000	50000
Total Dissolved Solids	278	<5	2780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.07	<3	70.7	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.85
Conductivity (µS/cm)	372
Temperature (°C)	16.50
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.106	Natural Moisture Content (%)	17.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	85.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244438
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.18
Loss on Ignition (%)	4.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	36.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0713
ANC to pH 4 (mol/kg)	0.308

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.85
Conductivity (µS/cm)	372
Temperature (°C)	16.50
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244441
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.341
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	27.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.18
ANC to pH 6 (mol/kg)	0.190
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00259	<0.0005	0.0259	<0.005	0.5	2	25
Barium	0.0066	<0.0002	0.066	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00783	<0.003	0.0783	<0.03	0.5	10	30
Nickel	0.00082	<0.0004	0.0082	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0038	<0.001	0.038	<0.01	0.06	0.7	5
Selenium	0.00152	<0.001	0.0152	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	11.7	<2	117	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	27.7	<2	277	<20	1000	20000	50000
Total Dissolved Solids	127	<5	1270	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.32
Conductivity (µS/cm)	170
Temperature (°C)	16.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244441
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.341
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	27.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.18
ANC to pH 6 (mol/kg)	0.190
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.32
Conductivity (µS/cm)	170
Temperature (°C)	16.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.99
Dry Matter Content (%)	92.6

Case	
SDG	190131-120
Lab Sample Number(s)	19244443
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.277
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.24
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.05
ANC to pH 6 (mol/kg)	0.482
ANC to pH 4 (mol/kg)	4.59

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00235	<0.0005	0.0235	<0.005	0.5	2	25
Barium	0.00414	<0.0002	0.0414	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00221	<0.001	0.0221	<0.01	0.1	0.5	7
Zinc	0.00126	<0.001	0.0126	<0.01	4	50	200
Chloride	27.2	<2	272	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10.3	<2	103	<20	1000	20000	50000
Total Dissolved Solids	131	<5	1310	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.94
Conductivity (µS/cm)	166
Temperature (°C)	16.50
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.99
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.6
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244443
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.277
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.24
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.05
ANC to pH 6 (mol/kg)	0.482
ANC to pH 4 (mol/kg)	4.59

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.94
Conductivity (µS/cm)	166
Temperature (°C)	16.50
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190131-120
Lab Sample Number(s)	19244444
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.214
Loss on Ignition (%)	1.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.29
ANC to pH 6 (mol/kg)	0.542
ANC to pH 4 (mol/kg)	5.31

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00127	<0.0005	0.0127	<0.005	0.5	2	25
Barium	0.00412	<0.0002	0.0412	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00199	<0.001	0.0199	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	57.2	<2	572	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10.9	<2	109	<20	1000	20000	50000
Total Dissolved Solids	187	<5	1870	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	9.55
Conductivity (µS/cm)	249
Temperature (°C)	16.00
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190131-120
Lab Sample Number(s)	19244444
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.214
Loss on Ignition (%)	1.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.29
ANC to pH 6 (mol/kg)	0.542
ANC to pH 4 (mol/kg)	5.31

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	9.55
Conductivity (µS/cm)	249
Temperature (°C)	16.00
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.76
Dry Matter Content (%)	92.8

Case	
SDG	190131-120
Lab Sample Number(s)	19244447
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.492
Loss on Ignition (%)	2.23
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.58
ANC to pH 6 (mol/kg)	0.218
ANC to pH 4 (mol/kg)	0.793

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0013	<0.0005	0.013	<0.005	0.5	2	25
Barium	0.0709	<0.0002	0.709	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.013	<0.003	0.13	<0.03	0.5	10	30
Nickel	0.000594	<0.0004	0.00594	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00242	<0.001	0.0242	<0.01	0.06	0.7	5
Selenium	0.0163	<0.001	0.163	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	141	<2	1410	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.8	<2	378	<20	1000	20000	50000
Total Dissolved Solids	417	<5	4170	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.16	<3	31.6	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.81
Conductivity (µS/cm)	545
Temperature (°C)	17.00
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.76
Dry Matter Content (%)	92.8

Case	
SDG	190131-120
Lab Sample Number(s)	19244447
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.492
Loss on Ignition (%)	2.23
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.58
ANC to pH 6 (mol/kg)	0.218
ANC to pH 4 (mol/kg)	0.793

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.81
Conductivity (µS/cm)	545
Temperature (°C)	17.00
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.05
Dry Matter Content (%)	91.7

Case	
SDG	190131-120
Lab Sample Number(s)	19244448
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.587
Loss on Ignition (%)	1.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.44
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.47
ANC to pH 6 (mol/kg)	0.265
ANC to pH 4 (mol/kg)	1.79

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0606	<0.0002	0.606	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0198	<0.003	0.198	<0.03	0.5	10	30
Nickel	0.000887	<0.0004	0.00887	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00252	<0.001	0.0252	<0.01	0.06	0.7	5
Selenium	0.0317	<0.001	0.317	<0.01	0.1	0.5	7
Zinc	0.00127	<0.001	0.0127	<0.01	4	50	200
Chloride	169	<2	1690	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	49.2	<2	492	<20	1000	20000	50000
Total Dissolved Solids	485	<5	4850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	621
Temperature (°C)	16.90
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.05
Dry Matter Content (%)	91.7

Case	
SDG	190131-120
Lab Sample Number(s)	19244448
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.587
Loss on Ignition (%)	1.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.44
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.47
ANC to pH 6 (mol/kg)	0.265
ANC to pH 4 (mol/kg)	1.79

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	621
Temperature (°C)	16.90
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190131-120
Lab Sample Number(s)	19244450
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.691
Loss on Ignition (%)	1.53
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.203
ANC to pH 4 (mol/kg)	1.52

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00124	<0.0005	0.0124	<0.005	0.5	2	25
Barium	0.0578	<0.0002	0.578	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0226	<0.003	0.226	<0.03	0.5	10	30
Nickel	0.000959	<0.0004	0.00959	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00278	<0.001	0.0278	<0.01	0.06	0.7	5
Selenium	0.034	<0.001	0.34	<0.01	0.1	0.5	7
Zinc	0.00116	<0.001	0.0116	<0.01	4	50	200
Chloride	127	<2	1270	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.2	<2	402	<20	1000	20000	50000
Total Dissolved Solids	374	<5	3740	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.03	<3	30.3	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.64
Conductivity (µS/cm)	459
Temperature (°C)	14.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.93
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.8
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244450
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH247
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.691
Loss on Ignition (%)	1.53
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.203
ANC to pH 4 (mol/kg)	1.52

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.64
Conductivity (µS/cm)	459
Temperature (°C)	14.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.72
Dry Matter Content (%)	93.7

Case	
SDG	190131-120
Lab Sample Number(s)	19244453
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.97
Loss on Ignition (%)	3.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	46.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.14
ANC to pH 6 (mol/kg)	0.0769
ANC to pH 4 (mol/kg)	0.167

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0021	<0.0005	0.021	<0.005	0.5	2	25
Barium	0.0345	<0.0002	0.345	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0182	<0.001	0.182	<0.01	0.5	10	70
Copper	0.0242	<0.0003	0.242	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0181	<0.003	0.181	<0.03	0.5	10	30
Nickel	0.0017	<0.0004	0.017	<0.004	0.4	10	40
Lead	0.000654	<0.0002	0.00654	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00385	<0.001	0.0385	<0.01	0.1	0.5	7
Zinc	0.00285	<0.001	0.0285	<0.01	4	50	200
Chloride	13	<2	130	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	76.2	<2	762	<20	1000	20000	50000
Total Dissolved Solids	654	<5	6540	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.87	<3	38.7	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	11.64
Conductivity (µS/cm)	985
Temperature (°C)	16.80
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.096	Natural Moisture Content (%)	6.72
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.7
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244453
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.97
Loss on Ignition (%)	3.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	46.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.14
ANC to pH 6 (mol/kg)	0.0769
ANC to pH 4 (mol/kg)	0.167

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	11.64
Conductivity (µS/cm)	985
Temperature (°C)	16.80
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244454
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.68
Loss on Ignition (%)	3.02
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	10.44
ANC to pH 6 (mol/kg)	0.0530
ANC to pH 4 (mol/kg)	0.137

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0158	<0.0005	0.158	<0.005	0.5	2	25
Barium	0.00429	<0.0002	0.0429	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00275	<0.001	0.0275	<0.01	0.5	10	70
Copper	0.0332	<0.0003	0.332	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000231	<0.00001	0.000231	<0.0001	0.01	0.2	2
Molybdenum	0.0135	<0.003	0.135	<0.03	0.5	10	30
Nickel	0.00461	<0.0004	0.0461	<0.004	0.4	10	40
Lead	0.000284	<0.0002	0.00284	<0.002	0.5	10	50
Antimony	0.00297	<0.001	0.0297	<0.01	0.06	0.7	5
Selenium	0.0182	<0.001	0.182	<0.01	0.1	0.5	7
Zinc	0.00109	<0.001	0.0109	<0.01	4	50	200
Chloride	7.9	<2	79	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36.1	<2	361	<20	1000	20000	50000
Total Dissolved Solids	151	<5	1510	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.32	<3	83.2	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	10.85
Conductivity (µS/cm)	244
Temperature (°C)	16.50
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244454
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.68
Loss on Ignition (%)	3.02
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	10.44
ANC to pH 6 (mol/kg)	0.0530
ANC to pH 4 (mol/kg)	0.137

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	10.85
Conductivity (µS/cm)	244
Temperature (°C)	16.50
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244455
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	3.24
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0594
ANC to pH 4 (mol/kg)	0.427

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00162	<0.0005	0.0162	<0.005	0.5	2	25
Barium	0.0139	<0.0002	0.139	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00111	<0.0003	0.0111	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0317	<0.003	0.317	<0.03	0.5	10	30
Nickel	0.000969	<0.0004	0.00969	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00422	<0.001	0.0422	<0.01	0.06	0.7	5
Selenium	0.00108	<0.001	0.0108	<0.01	0.1	0.5	7
Zinc	0.00179	<0.001	0.0179	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.525	<0.5	5.25	<5	10	150	500
Sulphate (soluble)	109	<2	1090	<20	1000	20000	50000
Total Dissolved Solids	249	<5	2490	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.37	<3	53.7	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	7.98
Conductivity (µS/cm)	325
Temperature (°C)	16.60
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244455
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	3.24
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0594
ANC to pH 4 (mol/kg)	0.427

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	7.98
Conductivity (µS/cm)	325
Temperature (°C)	16.60
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.127
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	40.8
Dry Matter Content (%)	71.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244459
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.96
Loss on Ignition (%)	5.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.49
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.80
ANC to pH 6 (mol/kg)	0.0608
ANC to pH 4 (mol/kg)	0.407

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00597	<0.0005	0.0597	<0.005	0.5	2	25
Barium	0.0169	<0.0002	0.169	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0264	<0.003	0.264	<0.03	0.5	10	30
Nickel	0.000904	<0.0004	0.00904	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00304	<0.001	0.0304	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00282	<0.001	0.0282	<0.01	4	50	200
Chloride	3.2	<2	32	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	68.3	<2	683	<20	1000	20000	50000
Total Dissolved Solids	209	<5	2090	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.61	<3	96.1	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	7.94
Conductivity (µS/cm)	271
Temperature (°C)	15.80
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.127	Natural Moisture Content (%)	40.8
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	71.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244459
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.96
Loss on Ignition (%)	5.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.49
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.80
ANC to pH 6 (mol/kg)	0.0608
ANC to pH 4 (mol/kg)	0.407

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	7.94
Conductivity (µS/cm)	271
Temperature (°C)	15.80
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244460
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.46
Loss on Ignition (%)	6.04
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.29
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0714
ANC to pH 4 (mol/kg)	0.279

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00599	<0.0005	0.0599	<0.005	0.5	2	25
Barium	0.00774	<0.0002	0.0774	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0282	<0.003	0.282	<0.03	0.5	10	30
Nickel	0.00103	<0.0004	0.0103	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00295	<0.001	0.0295	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00334	<0.001	0.0334	<0.01	4	50	200
Chloride	4.8	<2	48	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	43.5	<2	435	<20	1000	20000	50000
Total Dissolved Solids	175	<5	1750	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.4	<3	104	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.57
Conductivity (µS/cm)	232
Temperature (°C)	17.00
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.115	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244460
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.46
Loss on Ignition (%)	6.04
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.29
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0714
ANC to pH 4 (mol/kg)	0.279

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.57
Conductivity (µS/cm)	232
Temperature (°C)	17.00
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244463
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.882
Loss on Ignition (%)	2.18
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.33
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.22
ANC to pH 6 (mol/kg)	0.0875
ANC to pH 4 (mol/kg)	0.643

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00199	<0.0005	0.0199	<0.005	0.5	2	25
Barium	0.0079	<0.0002	0.079	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0185	<0.003	0.185	<0.03	0.5	10	30
Nickel	0.00105	<0.0004	0.0105	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00509	<0.001	0.0509	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00376	<0.001	0.0376	<0.01	4	50	200
Chloride	3.7	<2	37	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	63	<2	630	<20	1000	20000	50000
Total Dissolved Solids	226	<5	2260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.63	<3	56.3	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	281
Temperature (°C)	16.50
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244463
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.882
Loss on Ignition (%)	2.18
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.33
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.22
ANC to pH 6 (mol/kg)	0.0875
ANC to pH 4 (mol/kg)	0.643

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	281
Temperature (°C)	16.50
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.70
Dry Matter Content (%)	92.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244465
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.240
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.136
ANC to pH 4 (mol/kg)	0.494

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00474	<0.0005	0.0474	<0.005	0.5	2	25
Barium	0.00496	<0.0002	0.0496	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00317	<0.003	0.0317	<0.03	0.5	10	30
Nickel	0.000454	<0.0004	0.00454	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00937	<0.001	0.0937	<0.01	0.06	0.7	5
Selenium	0.00134	<0.001	0.0134	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	6.5	<2	65	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	15.7	<2	157	<20	1000	20000	50000
Total Dissolved Solids	91.2	<5	912	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.01	<3	30.1	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.61
Conductivity (µS/cm)	190
Temperature (°C)	19.20
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.70
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244465
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.240
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.136
ANC to pH 4 (mol/kg)	0.494

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.61
Conductivity (µS/cm)	190
Temperature (°C)	19.20
Volume Leachant (Litres)	0.892

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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244468
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.288
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.28
ANC to pH 6 (mol/kg)	0.0517
ANC to pH 4 (mol/kg)	0.0733

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00147	<0.0005	0.0147	<0.005	0.5	2	25
Barium	0.00717	<0.0002	0.0717	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00231	<0.001	0.0231	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	84.2	<2	842	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	16.2	<2	162	<20	1000	20000	50000
Total Dissolved Solids	265	<5	2650	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	9.27
Conductivity (µS/cm)	349
Temperature (°C)	15.80
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244468
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.288
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.28
ANC to pH 6 (mol/kg)	0.0517
ANC to pH 4 (mol/kg)	0.0733

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	9.27
Conductivity (µS/cm)	349
Temperature (°C)	15.80
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244469
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.320
Loss on Ignition (%)	1.23
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.21
ANC to pH 6 (mol/kg)	0.0742
ANC to pH 4 (mol/kg)	0.182

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00128	<0.0005	0.0128	<0.005	0.5	2	25
Barium	0.0609	<0.0002	0.609	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00631	<0.003	0.0631	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0014	<0.001	0.014	<0.01	0.06	0.7	5
Selenium	0.0117	<0.001	0.117	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	151	<2	1510	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.1	<2	371	<20	1000	20000	50000
Total Dissolved Solids	452	<5	4520	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.94
Conductivity (µS/cm)	583
Temperature (°C)	16.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244469
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.320
Loss on Ignition (%)	1.23
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.21
ANC to pH 6 (mol/kg)	0.0742
ANC to pH 4 (mol/kg)	0.182

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.94
Conductivity (µS/cm)	583
Temperature (°C)	16.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.6
Dry Matter Content (%)	90.4

Case	
SDG	190131-120
Lab Sample Number(s)	19244473
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.557
Loss on Ignition (%)	4.23
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.57
ANC to pH 6 (mol/kg)	0.217
ANC to pH 4 (mol/kg)	0.903

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00104	<0.0005	0.0104	<0.005	0.5	2	25
Barium	0.0493	<0.0002	0.493	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000386	<0.0003	0.00386	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000132	<0.00001	0.000132	<0.0001	0.01	0.2	2
Molybdenum	0.019	<0.003	0.19	<0.03	0.5	10	30
Nickel	0.000924	<0.0004	0.00924	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00305	<0.001	0.0305	<0.01	0.06	0.7	5
Selenium	0.0295	<0.001	0.295	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	203	<4	2030	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.9	<2	459	<20	1000	20000	50000
Total Dissolved Solids	572	<5	5720	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.61
Conductivity (µS/cm)	777
Temperature (°C)	17.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.6
Dry Matter Content (%)	90.4

Case	
SDG	190131-120
Lab Sample Number(s)	19244473
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.557
Loss on Ignition (%)	4.23
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.57
ANC to pH 6 (mol/kg)	0.217
ANC to pH 4 (mol/kg)	0.903

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.61
Conductivity (µS/cm)	777
Temperature (°C)	17.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.41
Dry Matter Content (%)	91.4

Case	
SDG	190131-120
Lab Sample Number(s)	19244476
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.658
Loss on Ignition (%)	2.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.48
ANC to pH 6 (mol/kg)	0.291
ANC to pH 4 (mol/kg)	1.50

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000575	<0.0005	0.00575	<0.005	0.5	2	25
Barium	0.0442	<0.0002	0.442	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0218	<0.003	0.218	<0.03	0.5	10	30
Nickel	0.00092	<0.0004	0.0092	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00298	<0.001	0.0298	<0.01	0.06	0.7	5
Selenium	0.0324	<0.001	0.324	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	152	<2	1520	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47	<2	470	<20	1000	20000	50000
Total Dissolved Solids	433	<5	4330	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.48
Conductivity (µS/cm)	581
Temperature (°C)	18.00
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.41
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.4
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244476
Sampled Date	25-Jan-2019
Customer Sample Ref.	BH248
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.658
Loss on Ignition (%)	2.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.48
ANC to pH 6 (mol/kg)	0.291
ANC to pH 4 (mol/kg)	1.50

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.48
Conductivity (µS/cm)	581
Temperature (°C)	18.00
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244481
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.50
Loss on Ignition (%)	3.39
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.41
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.51
ANC to pH 6 (mol/kg)	0.0649
ANC to pH 4 (mol/kg)	0.357

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00704	<0.0005	0.0704	<0.005	0.5	2	25
Barium	0.0105	<0.0002	0.105	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00114	<0.001	0.0114	<0.01	0.5	10	70
Copper	0.00412	<0.0003	0.0412	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000146	<0.00001	0.000146	<0.0001	0.01	0.2	2
Molybdenum	0.00542	<0.003	0.0542	<0.03	0.5	10	30
Nickel	0.000671	<0.0004	0.00671	<0.004	0.4	10	40
Lead	0.000713	<0.0002	0.00713	<0.002	0.5	10	50
Antimony	0.00153	<0.001	0.0153	<0.01	0.06	0.7	5
Selenium	0.00212	<0.001	0.0212	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	14.3	<2	143	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	28.1	<2	281	<20	1000	20000	50000
Total Dissolved Solids	124	<5	1240	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	9.31
Conductivity (µS/cm)	156
Temperature (°C)	18.60
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244481
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.50
Loss on Ignition (%)	3.39
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.41
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.51
ANC to pH 6 (mol/kg)	0.0649
ANC to pH 4 (mol/kg)	0.357

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	9.31
Conductivity (µS/cm)	156
Temperature (°C)	18.60
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244482
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.03
Loss on Ignition (%)	4.84
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0523
ANC to pH 4 (mol/kg)	0.228

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.003	<0.0005	0.03	<0.005	0.5	2	25
Barium	0.00965	<0.0002	0.0965	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0031	<0.0003	0.031	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000154	<0.00001	0.000154	<0.0001	0.01	0.2	2
Molybdenum	0.00909	<0.003	0.0909	<0.03	0.5	10	30
Nickel	0.000569	<0.0004	0.00569	<0.004	0.4	10	40
Lead	0.000785	<0.0002	0.00785	<0.002	0.5	10	50
Antimony	0.00174	<0.001	0.0174	<0.01	0.06	0.7	5
Selenium	0.00188	<0.001	0.0188	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	9.9	<2	99	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	33.1	<2	331	<20	1000	20000	50000
Total Dissolved Solids	126	<5	1260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	6.97
Conductivity (µS/cm)	164
Temperature (°C)	178.00
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244482
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.03
Loss on Ignition (%)	4.84
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0523
ANC to pH 4 (mol/kg)	0.228

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	6.97
Conductivity (µS/cm)	164
Temperature (°C)	178.00
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244484
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	4.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0458
ANC to pH 4 (mol/kg)	0.305

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00166	<0.0005	0.0166	<0.005	0.5	2	25
Barium	0.00683	<0.0002	0.0683	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00273	<0.0003	0.0273	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0191	<0.003	0.191	<0.03	0.5	10	30
Nickel	0.000608	<0.0004	0.00608	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0031	<0.001	0.031	<0.01	0.06	0.7	5
Selenium	0.00127	<0.001	0.0127	<0.01	0.1	0.5	7
Zinc	0.00309	<0.001	0.0309	<0.01	4	50	200
Chloride	5.9	<2	59	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	66.5	<2	665	<20	1000	20000	50000
Total Dissolved Solids	212	<5	2120	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.75	<3	57.5	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.04
Conductivity (µS/cm)	252
Temperature (°C)	8.00
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244484
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	4.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0458
ANC to pH 4 (mol/kg)	0.305

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.04
Conductivity (µS/cm)	252
Temperature (°C)	8.00
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244486
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.75
Loss on Ignition (%)	3.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0458
ANC to pH 4 (mol/kg)	0.411

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00562	<0.0005	0.0562	<0.005	0.5	2	25
Barium	0.00741	<0.0002	0.0741	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00253	<0.0003	0.0253	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0306	<0.003	0.306	<0.03	0.5	10	30
Nickel	0.00136	<0.0004	0.0136	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00452	<0.001	0.0452	<0.01	0.06	0.7	5
Selenium	0.00102	<0.001	0.0102	<0.01	0.1	0.5	7
Zinc	0.0048	<0.001	0.048	<0.01	4	50	200
Chloride	5.8	<2	58	<20	800	15000	25000
Fluoride	0.501	<0.5	5.01	<5	10	150	500
Sulphate (soluble)	122	<2	1220	<20	1000	20000	50000
Total Dissolved Solids	313	<5	3130	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.67	<3	76.7	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.00
Conductivity (µS/cm)	416
Temperature (°C)	17.80
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244486
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.75
Loss on Ignition (%)	3.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0458
ANC to pH 4 (mol/kg)	0.411

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.00
Conductivity (µS/cm)	416
Temperature (°C)	17.80
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244491
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.73
Loss on Ignition (%)	3.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0525
ANC to pH 4 (mol/kg)	0.282

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00482	<0.0005	0.0482	<0.005	0.5	2	25
Barium	0.00584	<0.0002	0.0584	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00105	<0.0003	0.0105	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0361	<0.003	0.361	<0.03	0.5	10	30
Nickel	0.00146	<0.0004	0.0146	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00819	<0.001	0.0819	<0.01	0.06	0.7	5
Selenium	0.00176	<0.001	0.0176	<0.01	0.1	0.5	7
Zinc	0.00196	<0.001	0.0196	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	106	<2	1060	<20	1000	20000	50000
Total Dissolved Solids	273	<5	2730	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.62	<3	56.2	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	339
Temperature (°C)	18.50
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244491
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.73
Loss on Ignition (%)	3.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0525
ANC to pH 4 (mol/kg)	0.282

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	339
Temperature (°C)	18.50
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244493
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.494
Loss on Ignition (%)	1.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.0754
ANC to pH 4 (mol/kg)	0.548

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00263	<0.0005	0.0263	<0.005	0.5	2	25
Barium	0.00675	<0.0002	0.0675	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000998	<0.0003	0.00998	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0154	<0.003	0.154	<0.03	0.5	10	30
Nickel	0.00124	<0.0004	0.0124	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0054	<0.001	0.054	<0.01	0.06	0.7	5
Selenium	0.00224	<0.001	0.0224	<0.01	0.1	0.5	7
Zinc	0.00144	<0.001	0.0144	<0.01	4	50	200
Chloride	4.1	<2	41	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	58.7	<2	587	<20	1000	20000	50000
Total Dissolved Solids	178	<5	1780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.15
Conductivity (µS/cm)	226
Temperature (°C)	18.70
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244493
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.494
Loss on Ignition (%)	1.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.0754
ANC to pH 4 (mol/kg)	0.548

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.15
Conductivity (µS/cm)	226
Temperature (°C)	18.70
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.05
Dry Matter Content (%)	91.7

Case	
SDG	190131-120
Lab Sample Number(s)	19244494
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.287
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.52
ANC to pH 6 (mol/kg)	0.0502
ANC to pH 4 (mol/kg)	0.0872

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0124	<0.0005	0.124	<0.005	0.5	2	25
Barium	0.006	<0.0002	0.06	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000367	<0.0003	0.00367	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00572	<0.003	0.0572	<0.03	0.5	10	30
Nickel	0.000533	<0.0004	0.00533	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00845	<0.001	0.0845	<0.01	0.06	0.7	5
Selenium	0.00117	<0.001	0.0117	<0.01	0.1	0.5	7
Zinc	0.00196	<0.001	0.0196	<0.01	4	50	200
Chloride	3.9	<2	39	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	31.1	<2	311	<20	1000	20000	50000
Total Dissolved Solids	116	<5	1160	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	6.29
Conductivity (µS/cm)	147
Temperature (°C)	18.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	9.05
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.7
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244494
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.287
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.52
ANC to pH 6 (mol/kg)	0.0502
ANC to pH 4 (mol/kg)	0.0872

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	6.29
Conductivity (µS/cm)	147
Temperature (°C)	18.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.4
Dry Matter Content (%)	90.6

Case	
SDG	190131-120
Lab Sample Number(s)	19244500
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.392
Loss on Ignition (%)	0.963
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.19
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.229

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00675	<0.0005	0.0675	<0.005	0.5	2	25
Barium	0.0037	<0.0002	0.037	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00114	<0.001	0.0114	<0.01	0.06	0.7	5
Selenium	0.00242	<0.001	0.0242	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	52.6	<2	526	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10	<2	100	<20	1000	20000	50000
Total Dissolved Solids	189	<5	1890	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	8.36
Conductivity (µS/cm)	249
Temperature (°C)	18.30
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.6
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244500
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.392
Loss on Ignition (%)	0.963
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.19
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.229

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	8.36
Conductivity (µS/cm)	249
Temperature (°C)	18.30
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.41
Dry Matter Content (%)	91.4

Case	
SDG	190131-120
Lab Sample Number(s)	19244502
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.275
Loss on Ignition (%)	1.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.25
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.339

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00192	<0.0005	0.0192	<0.005	0.5	2	25
Barium	0.00835	<0.0002	0.0835	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00346	<0.003	0.0346	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00215	<0.001	0.0215	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	61.8	<2	618	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	13.1	<2	131	<20	1000	20000	50000
Total Dissolved Solids	207	<5	2070	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	12-Feb-2019
pH (pH Units)	9.58
Conductivity (µS/cm)	267
Temperature (°C)	18.70
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	9.41
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.4
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244502
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.275
Loss on Ignition (%)	1.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.25
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.339

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	12-Feb-2019
pH (pH Units)	9.58
Conductivity (µS/cm)	267
Temperature (°C)	18.70
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-120
Lab Sample Number(s)	19244505
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.621
Loss on Ignition (%)	0.877
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.38
ANC to pH 6 (mol/kg)	0.140
ANC to pH 4 (mol/kg)	0.540

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000935	<0.0005	0.00935	<0.005	0.5	2	25
Barium	0.0569	<0.0002	0.569	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000565	<0.0003	0.00565	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0171	<0.003	0.171	<0.03	0.5	10	30
Nickel	0.000858	<0.0004	0.00858	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00281	<0.001	0.0281	<0.01	0.06	0.7	5
Selenium	0.0212	<0.001	0.212	<0.01	0.1	0.5	7
Zinc	0.00264	<0.001	0.0264	<0.01	4	50	200
Chloride	174	<2	1740	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	49.6	<2	496	<20	1000	20000	50000
Total Dissolved Solids	491	<5	4910	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	12-Feb-2019
pH (pH Units)	8.75
Conductivity (µS/cm)	653
Temperature (°C)	19.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190131-120
Lab Sample Number(s)	19244505
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.621
Loss on Ignition (%)	0.877
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.38
ANC to pH 6 (mol/kg)	0.140
ANC to pH 4 (mol/kg)	0.540

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	12-Feb-2019
pH (pH Units)	8.75
Conductivity (µS/cm)	653
Temperature (°C)	19.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.11
Dry Matter Content (%)	92.5

Case	
SDG	190131-120
Lab Sample Number(s)	19244507
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.662
Loss on Ignition (%)	1.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.312
ANC to pH 4 (mol/kg)	1.27

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000935	<0.0005	0.00935	<0.005	0.5	2	25
Barium	0.0435	<0.0002	0.435	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0016	<0.0003	0.016	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.000014	<0.00001	0.00014	<0.0001	0.01	0.2	2
Molybdenum	0.0296	<0.003	0.296	<0.03	0.5	10	30
Nickel	0.00094	<0.0004	0.0094	<0.004	0.4	10	40
Lead	0.000229	<0.0002	0.00229	<0.002	0.5	10	50
Antimony	0.00353	<0.001	0.0353	<0.01	0.06	0.7	5
Selenium	0.034	<0.001	0.34	<0.01	0.1	0.5	7
Zinc	0.0028	<0.001	0.028	<0.01	4	50	200
Chloride	140	<2	1400	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	50.1	<2	501	<20	1000	20000	50000
Total Dissolved Solids	420	<5	4200	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	12-Feb-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	564
Temperature (°C)	18.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.11
Dry Matter Content (%)	92.5

Case	
SDG	190131-120
Lab Sample Number(s)	19244507
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.662
Loss on Ignition (%)	1.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.312
ANC to pH 4 (mol/kg)	1.27

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	12-Feb-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	564
Temperature (°C)	18.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.81
Dry Matter Content (%)	91.9

Case	
SDG	190131-120
Lab Sample Number(s)	19244509
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.638
Loss on Ignition (%)	2.02
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.39
ANC to pH 6 (mol/kg)	0.217
ANC to pH 4 (mol/kg)	1.70

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000728	<0.0005	0.00728	<0.005	0.5	2	25
Barium	0.0374	<0.0002	0.374	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000367	<0.0003	0.00367	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000106	<0.00001	0.000106	<0.0001	0.01	0.2	2
Molybdenum	0.0189	<0.003	0.189	<0.03	0.5	10	30
Nickel	0.000588	<0.0004	0.00588	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0019	<0.001	0.019	<0.01	0.06	0.7	5
Selenium	0.0275	<0.001	0.275	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	121	<2	1210	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	53.1	<2	531	<20	1000	20000	50000
Total Dissolved Solids	360	<5	3600	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	8.62
Conductivity (µS/cm)	484
Temperature (°C)	18.40
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:48:20



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.81
Dry Matter Content (%)	91.9

Case	
SDG	190131-120
Lab Sample Number(s)	19244509
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH249
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.638
Loss on Ignition (%)	2.02
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.39
ANC to pH 6 (mol/kg)	0.217
ANC to pH 4 (mol/kg)	1.70

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	8.62
Conductivity (µS/cm)	484
Temperature (°C)	18.40
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:48:20



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM304	HSE Contract research Report no 83/1996	Asbestos Quantification in Soil: Fibres identified by morphology only
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19244434	19244435	19244436	19244437	19244438	19244441	19244443	19244444	19244447	19244448
	BH247	BH247	BH247	BH247	BH247	BH247	BH247	BH247	BH247	BH247
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	12.00 - 13.00	13.00 - 14.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019
Anions by Kone (w)	21-Feb-2019	21-Feb-2019	21-Feb-2019	15-Feb-2019	15-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	15-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019
CEN 10:1 Leachate (1 Stage)	06-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019
CEN Readings	07-Feb-2019	08-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019	07-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	15-Feb-2019	13-Feb-2019	15-Feb-2019	09-Feb-2019	09-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	09-Feb-2019	15-Feb-2019
Dissolved Organic/Inorganic Carbon	19-Feb-2019	19-Feb-2019	19-Feb-2019	08-Feb-2019	08-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	08-Feb-2019	19-Feb-2019
EPH CWG (Aliphatic) GC (S)	09-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
EPH CWG (Aromatic) GC (S)	09-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
Fluoride	14-Feb-2019	14-Feb-2019	14-Feb-2019	07-Feb-2019	07-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	07-Feb-2019	14-Feb-2019
GRO by GC-FID (S)	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	12-Feb-2019	12-Feb-2019	09-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019
Hexavalent Chromium (s)	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019
Loss on Ignition in soils	11-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	07-Feb-2019	11-Feb-2019
Mercury Dissolved	08-Feb-2019	18-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019
Metals in solid samples by OES	09-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	08-Feb-2019	09-Feb-2019
Mineral Oil	07-Feb-2019	07-Feb-2019	06-Feb-2019	05-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
PAH 16 & 17 Calc	08-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
PAH by GCMS	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
PCBs by GCMS	09-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	08-Feb-2019	09-Feb-2019
pH	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	12-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019	14-Feb-2019	11-Feb-2019	13-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019
Phenols by HPLC (W)	26-Feb-2019	26-Feb-2019	26-Feb-2019	25-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
Sample description	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	13-Feb-2019	07-Feb-2019	07-Feb-2019	13-Feb-2019	07-Feb-2019	13-Feb-2019	07-Feb-2019	07-Feb-2019
Total Organic Carbon	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019
TPH CWG GC (S)	09-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	12-Feb-2019	12-Feb-2019	11-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019
VOC MS (S)	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19244450	19244453	19244454	19244455	19244459	19244460	19244463	19244465	19244468	19244469
	BH247	BH248	BH248	BH248	BH248	BH248	BH248	BH248	BH248	BH248
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	15.00 - 16.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	7.00 - 8.00	10.00 - 11.00	11.00 - 12.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	06-Feb-2019	08-Feb-2019	10-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	10-Feb-2019
Anions by Kone (w)	15-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
Asbestos Quantification - Full		14-Feb-2019		14-Feb-2019						
CEN 10:1 Leachate (1 Stage)	05-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
CEN Readings	06-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	07-Feb-2019	07-Feb-2019	14-Feb-2019	10-Feb-2019	10-Feb-2019
Coronene	05-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	09-Feb-2019	15-Feb-2019	15-Feb-2019	18-Feb-2019	18-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Dissolved Organic/Inorganic Carbon	08-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	20-Feb-2019	19-Feb-2019	20-Feb-2019
EPH CWG (Aliphatic) GC (S)	09-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019
EPH CWG (Aromatic) GC (S)	09-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019
Fluoride	07-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
GRO by GC-FID (S)	12-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	12-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019
Hexavalent Chromium (s)	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019
Loss on Ignition in soils	06-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	11-Feb-2019
Mercury Dissolved	08-Feb-2019	18-Feb-2019	18-Feb-2019	16-Feb-2019	16-Feb-2019	08-Feb-2019	08-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Metals in solid samples by OES	07-Feb-2019	11-Feb-2019	12-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	12-Feb-2019
Mineral Oil	05-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
PAH 16 & 17 Calc	08-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019
PAH by GCMS	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019
PCBs by GCMS	06-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	12-Feb-2019
pH	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	11-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019
Phenols by HPLC (W)	12-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
Sample description	02-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019
Total Dissolved Solids	07-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	07-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	06-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	11-Feb-2019
TPH CWG GC (S)	12-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	12-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019
VOC MS (S)	08-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19244473	19244476	19244481	19244482	19244484	19244486	19244491	19244493	19244494	19244500
	BH248	BH248	BH249	BH249	BH249	BH249	BH249	BH249	BH249	BH249
AGS Ref. Depth Type										
	13.00 - 14.00	15.00 - 16.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	07-Feb-2019	06-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019	14-Feb-2019	13-Feb-2019	14-Feb-2019
Anions by Kone (w)	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	07-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Asbestos Quantification - Full			22-Feb-2019							
CEN 10:1 Leachate (1 Stage)	06-Feb-2019	05-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
CEN Readings	08-Feb-2019	07-Feb-2019	13-Feb-2019	13-Feb-2019	14-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Coronene	07-Feb-2019	06-Feb-2019	13-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019
Dissolved Metals by ICP-MS	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Dissolved Organic/Inorganic Carbon	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	19-Feb-2019	19-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
EPH CWG (Aliphatic) GC (S)	08-Feb-2019	09-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
EPH CWG (Aromatic) GC (S)	08-Feb-2019	09-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Fluoride	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
GRO by GC-FID (S)	07-Feb-2019	07-Feb-2019	13-Feb-2019	14-Feb-2019	12-Feb-2019	12-Feb-2019	13-Feb-2019	11-Feb-2019	13-Feb-2019	11-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	08-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Loss on Ignition in soils	07-Feb-2019	06-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019	14-Feb-2019	13-Feb-2019	14-Feb-2019
Mercury Dissolved	16-Feb-2019	16-Feb-2019	16-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	16-Feb-2019	16-Feb-2019
Metals in solid samples by OES	08-Feb-2019	06-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	14-Feb-2019	15-Feb-2019	14-Feb-2019	15-Feb-2019
Mineral Oil	07-Feb-2019	07-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
PAH 16 & 17 Calc	07-Feb-2019	06-Feb-2019	13-Feb-2019	13-Feb-2019	15-Feb-2019	14-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
PAH by GCMS	07-Feb-2019	06-Feb-2019	13-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019
PCBs by GCMS	08-Feb-2019	06-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	18-Feb-2019	15-Feb-2019	18-Feb-2019	15-Feb-2019
pH	07-Feb-2019	07-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Phenols by HPLC (S)	08-Feb-2019	12-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019
Phenols by HPLC (W)	26-Feb-2019	26-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019
Sample description	05-Feb-2019	02-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Total Organic Carbon	08-Feb-2019	06-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
TPH CWG GC (S)	08-Feb-2019	09-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
VOC MS (S)	06-Feb-2019	07-Feb-2019	13-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019	13-Feb-2019	12-Feb-2019	13-Feb-2019	12-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19244502	19244505	19244507	19244509
	BH249	BH249	BH249	BH249
AGS Ref. Depth Type				
	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00
Type	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	14-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Anions by Kone (w)	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	12-Feb-2019	13-Feb-2019	12-Feb-2019	13-Feb-2019
CEN 10:1 Leachate (1 Stage)	12-Feb-2019	12-Feb-2019	12-Feb-2019	11-Feb-2019
CEN Readings	13-Feb-2019	13-Feb-2019	13-Feb-2019	12-Feb-2019
Coronene	14-Feb-2019	13-Feb-2019	14-Feb-2019	13-Feb-2019
Dissolved Metals by ICP-MS	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Dissolved Organic/Inorganic Carbon	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
EPH CWG (Aliphatic) GC (S)	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019
EPH CWG (Aromatic) GC (S)	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019
Fluoride	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
GRO by GC-FID (S)	11-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019
Hexavalent Chromium (s)	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Loss on Ignition in soils	14-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Mercury Dissolved	18-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
Metals in solid samples by OES	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Mineral Oil	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
PAH 16 & 17 Calc	14-Feb-2019	15-Feb-2019	14-Feb-2019	13-Feb-2019
PAH by GCMS	14-Feb-2019	13-Feb-2019	14-Feb-2019	13-Feb-2019
PCBs by GCMS	21-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019
pH	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Phenols by HPLC (S)	16-Feb-2019	18-Feb-2019	16-Feb-2019	16-Feb-2019
Phenols by HPLC (W)	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
Sample description	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
Total Dissolved Solids	14-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019
Total Organic Carbon	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
TPH CWG GC (S)	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019
VOC MS (S)	12-Feb-2019	12-Feb-2019	11-Feb-2019	12-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

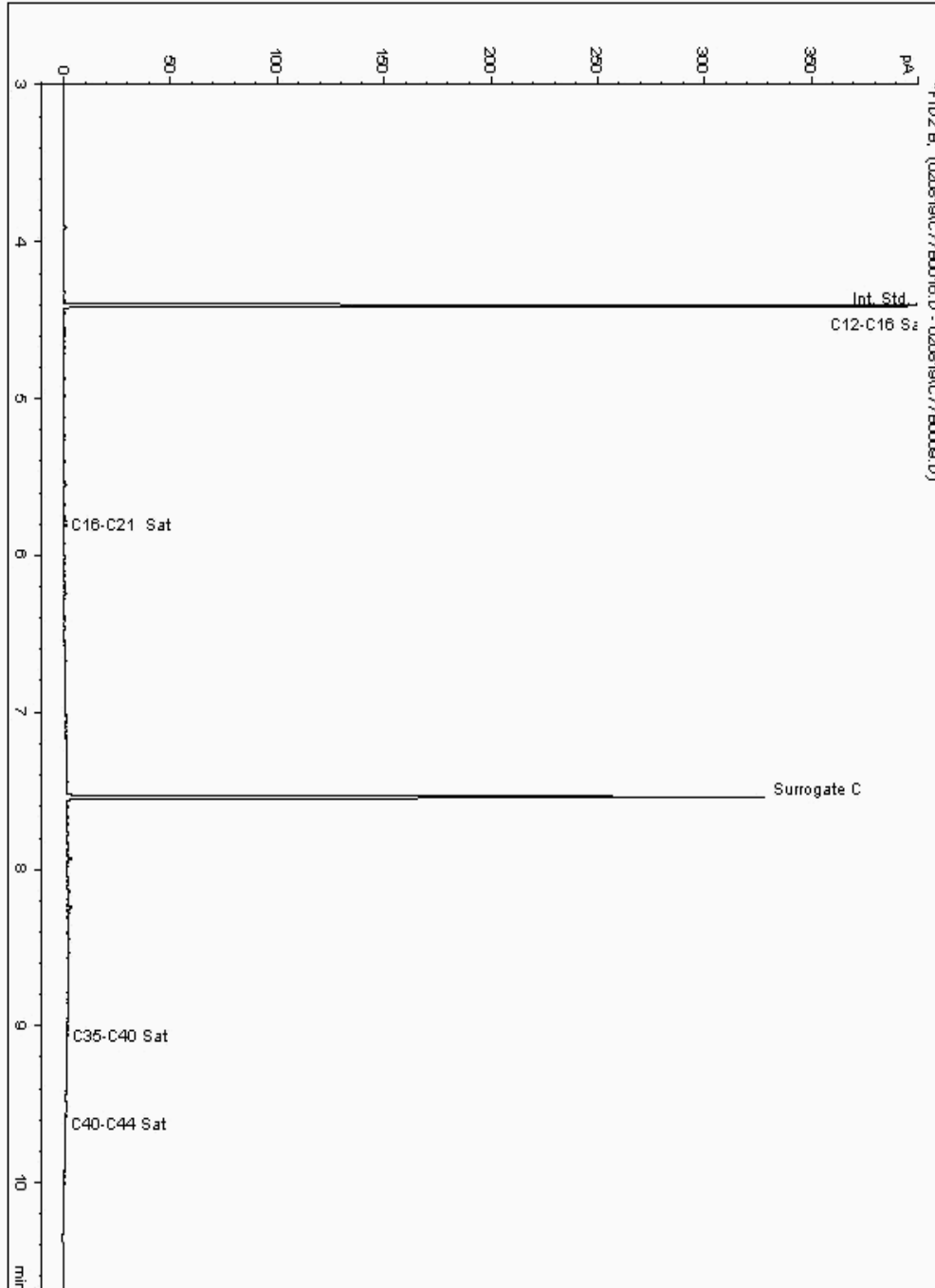
Analysis: EPH CWG (Aliphatic) GC (S)
19260802

Sample No :
Sample ID : BH247

19,260,802 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090192-
Date Acquired : 08/02/2019 18:22:06 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

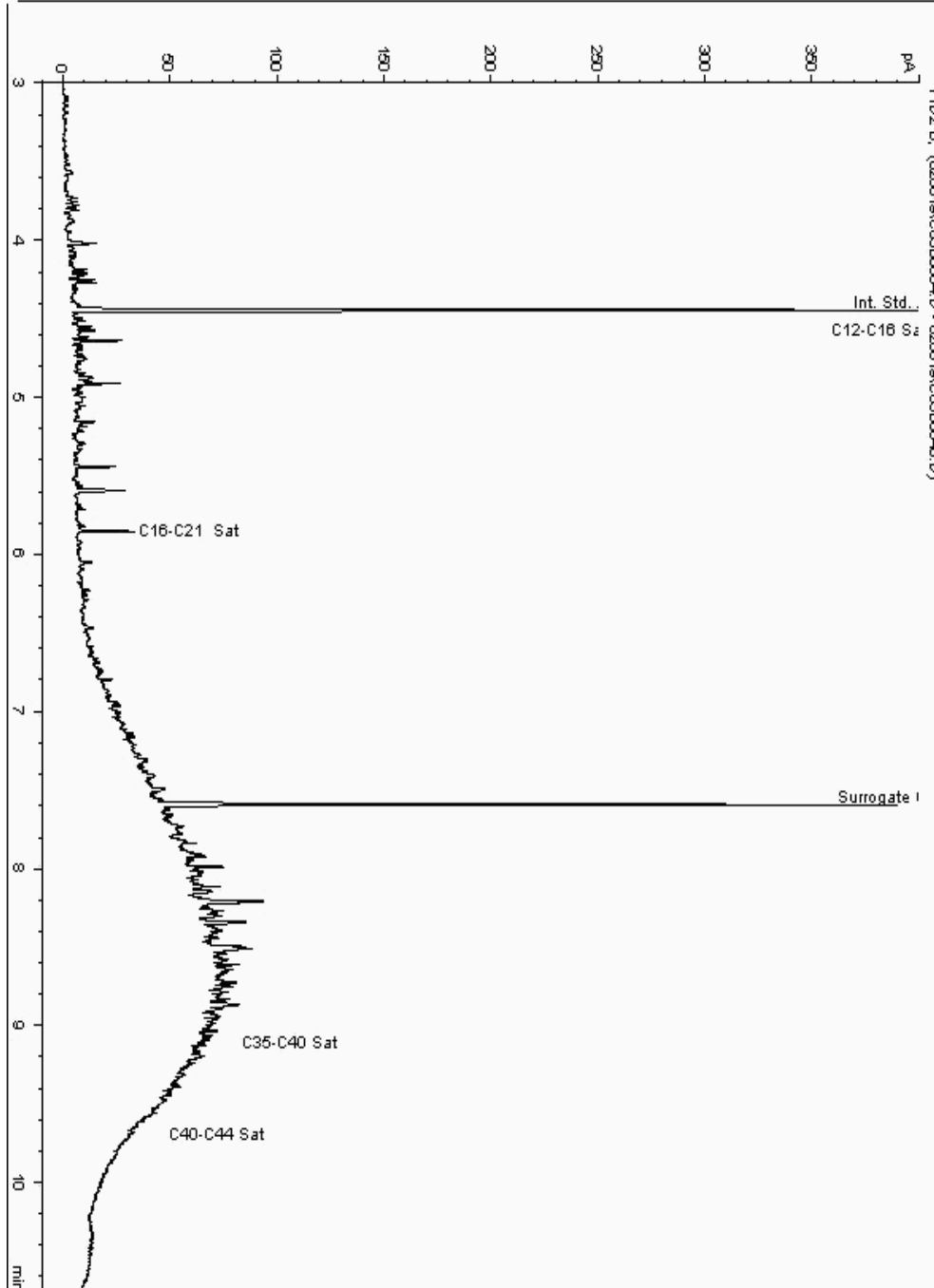
Analysis: EPH CWG (Aliphatic) GC (S)
19261002

Sample No :
Sample ID : BH247

19,261,002Depth :2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090214-
Date Acquired : 09/02/2019 02:27:55 PM
Units : ppb
Dilution: BH247[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

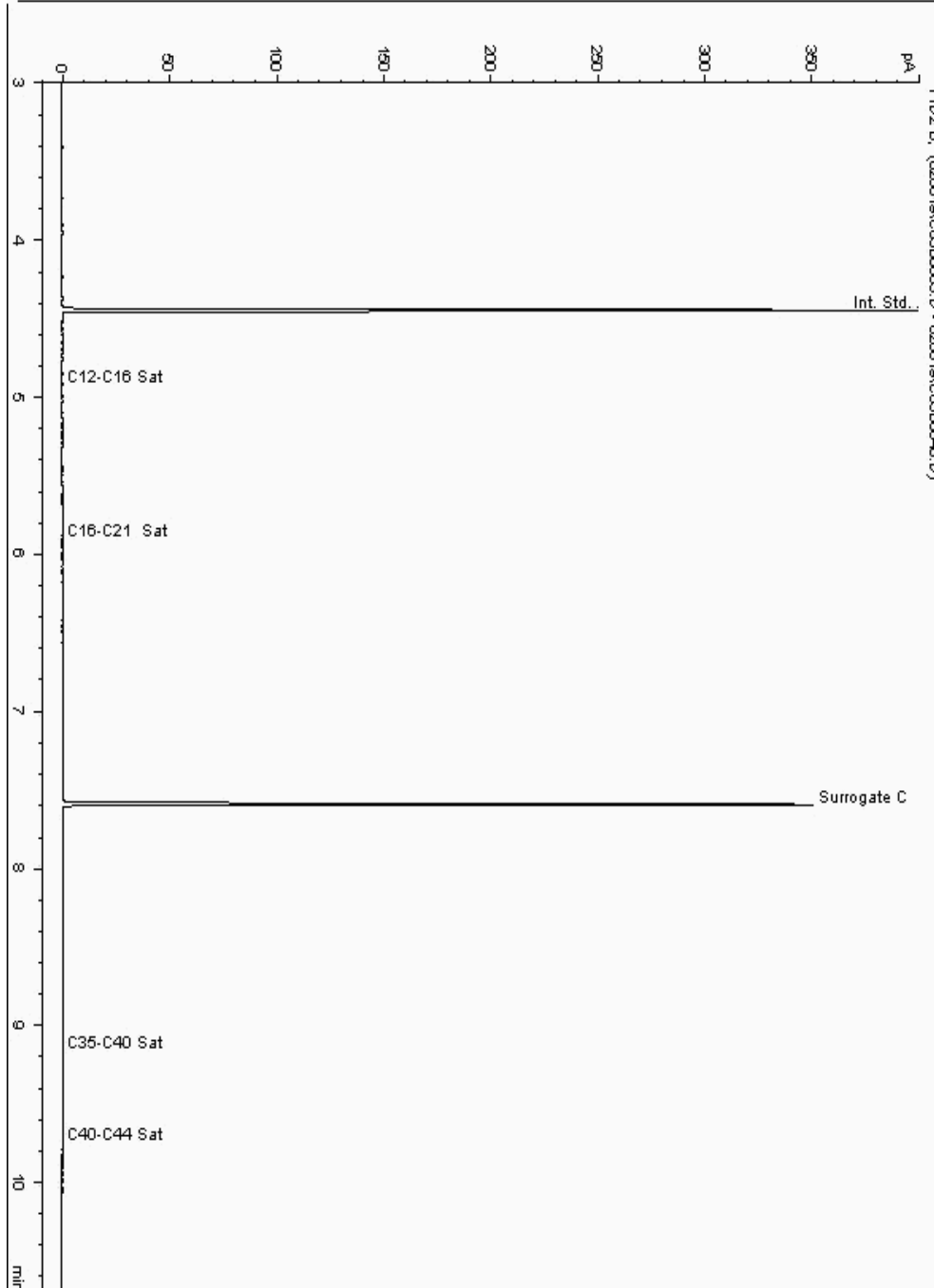
Analysis: EPH CWG (Aliphatic) GC (S)
19261043

Sample No :
Sample ID : BH247

19,261,043 Depth : 8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090309-
Date Acquired : 09/02/2019 02:07:26 PM
Units : ppb
Dilution: BH247[8.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

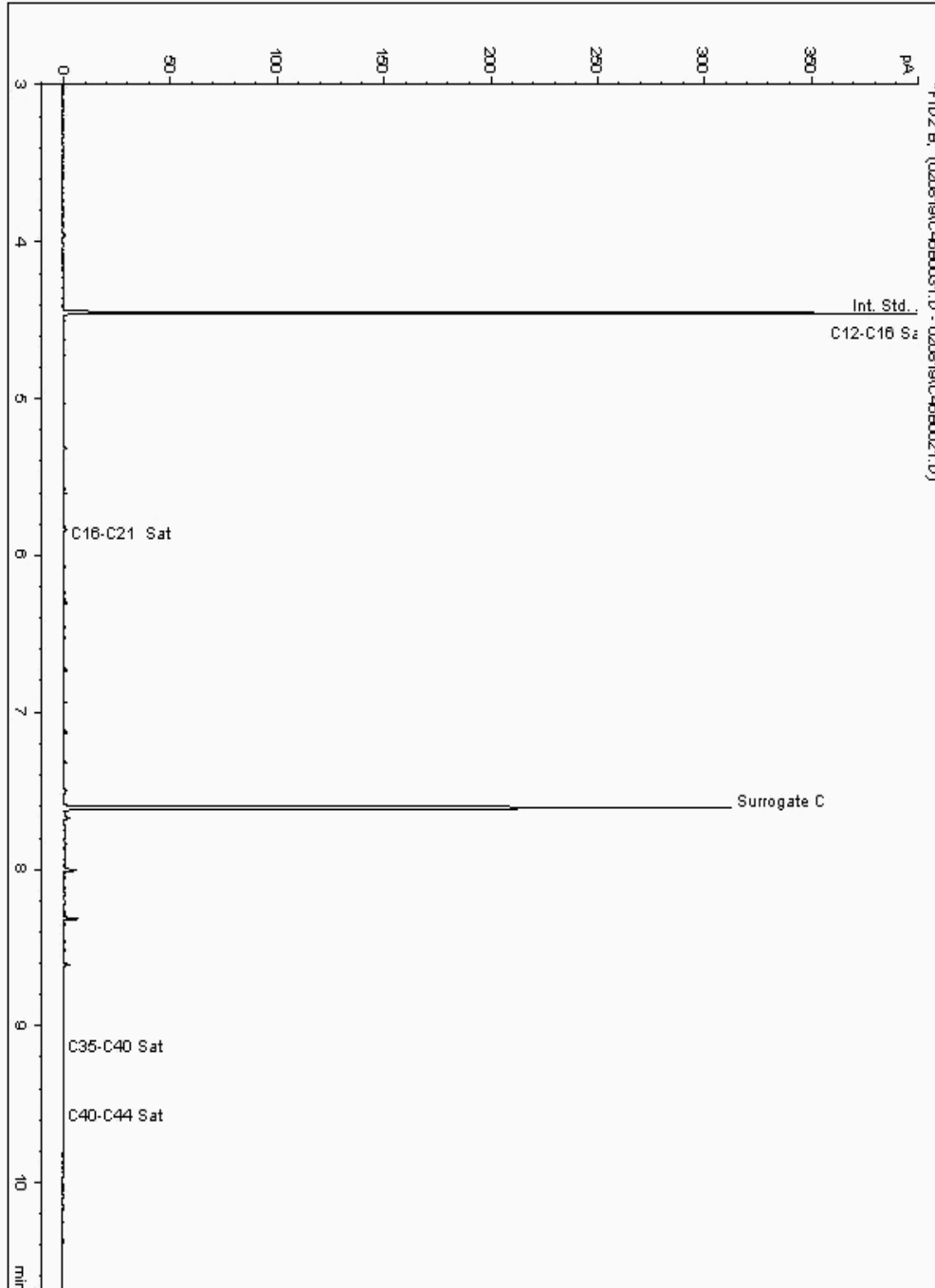
Analysis: EPH CWG (Aliphatic) GC (S)
19261518

Sample No :
Sample ID : BH247

19,261,518 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090167-
Date Acquired : 08/02/2019 17:44:40 PM
Units : ppb
Dilution: BH247[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

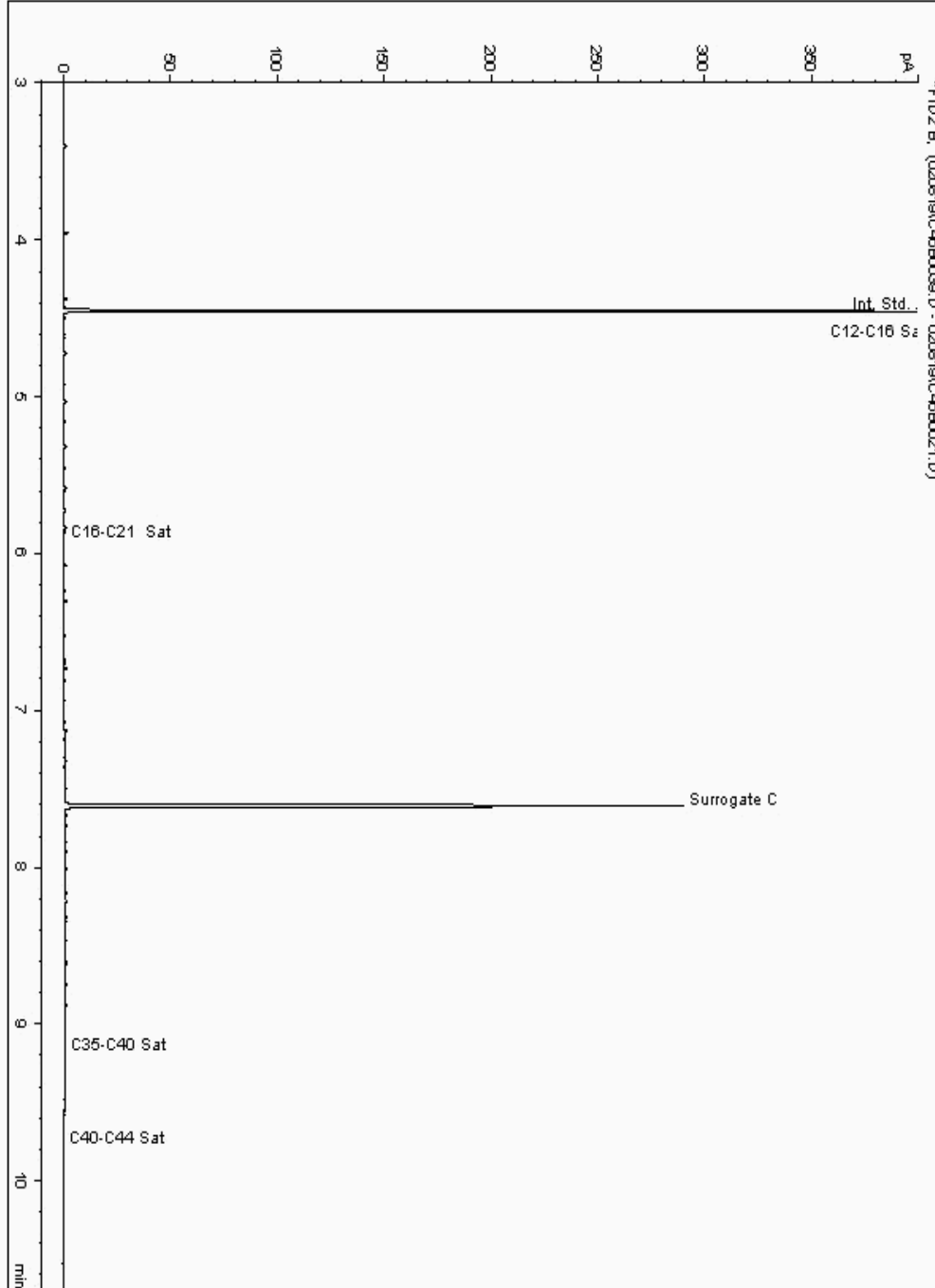
Analysis: EPH CWG (Aliphatic) GC (S)
19261583

Sample No :
Sample ID : BH247

19,261,583 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090382-
Date Acquired : 08/02/2019 20:11:03 PM
Units : ppb
Dilution: BH247[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

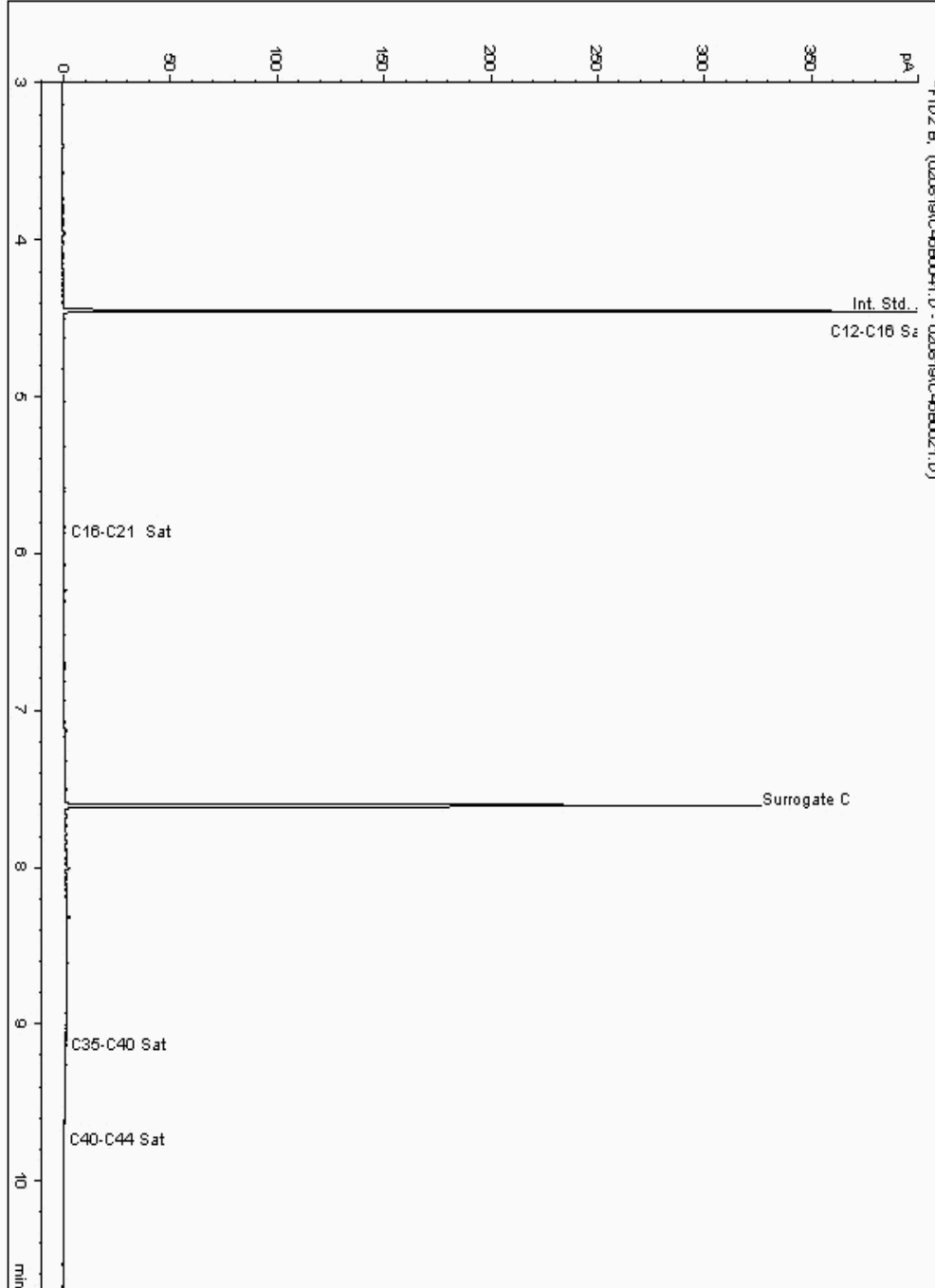
Analysis: EPH CWG (Aliphatic) GC (S)
19261702

Sample No :
Sample ID : BH247

19,261,702 Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090285-
Date Acquired : 08/02/2019 20:51:42 PM
Units : ppb
Dilution: BH247[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

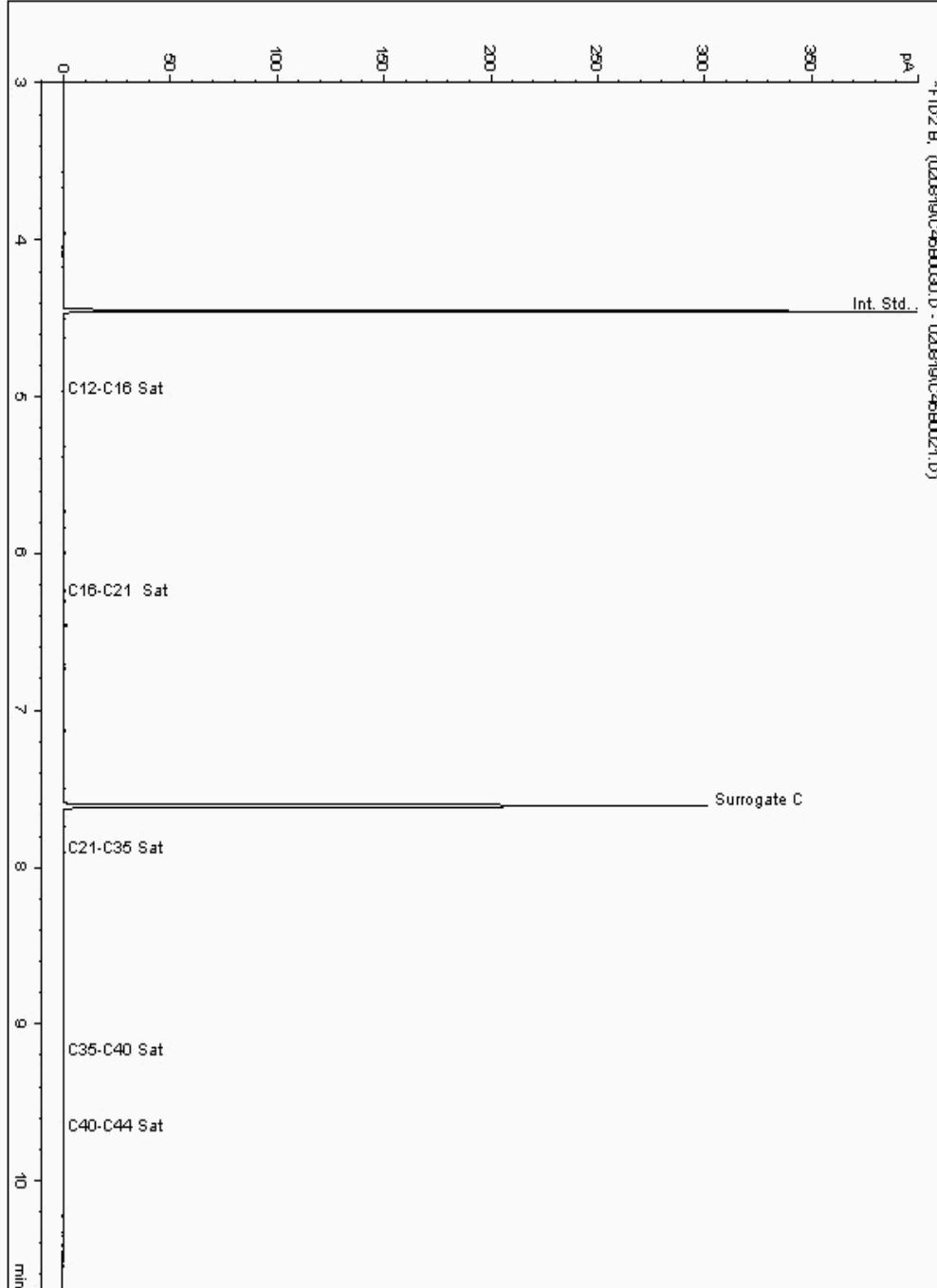
Analysis: EPH CWG (Aliphatic) GC (S)
19261875

Sample No :
Sample ID : BH247

19,261,875 Depth : 9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090334-
Date Acquired : 08/02/2019 17:24:22 PM
Units : ppb
Dilution: BH247[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

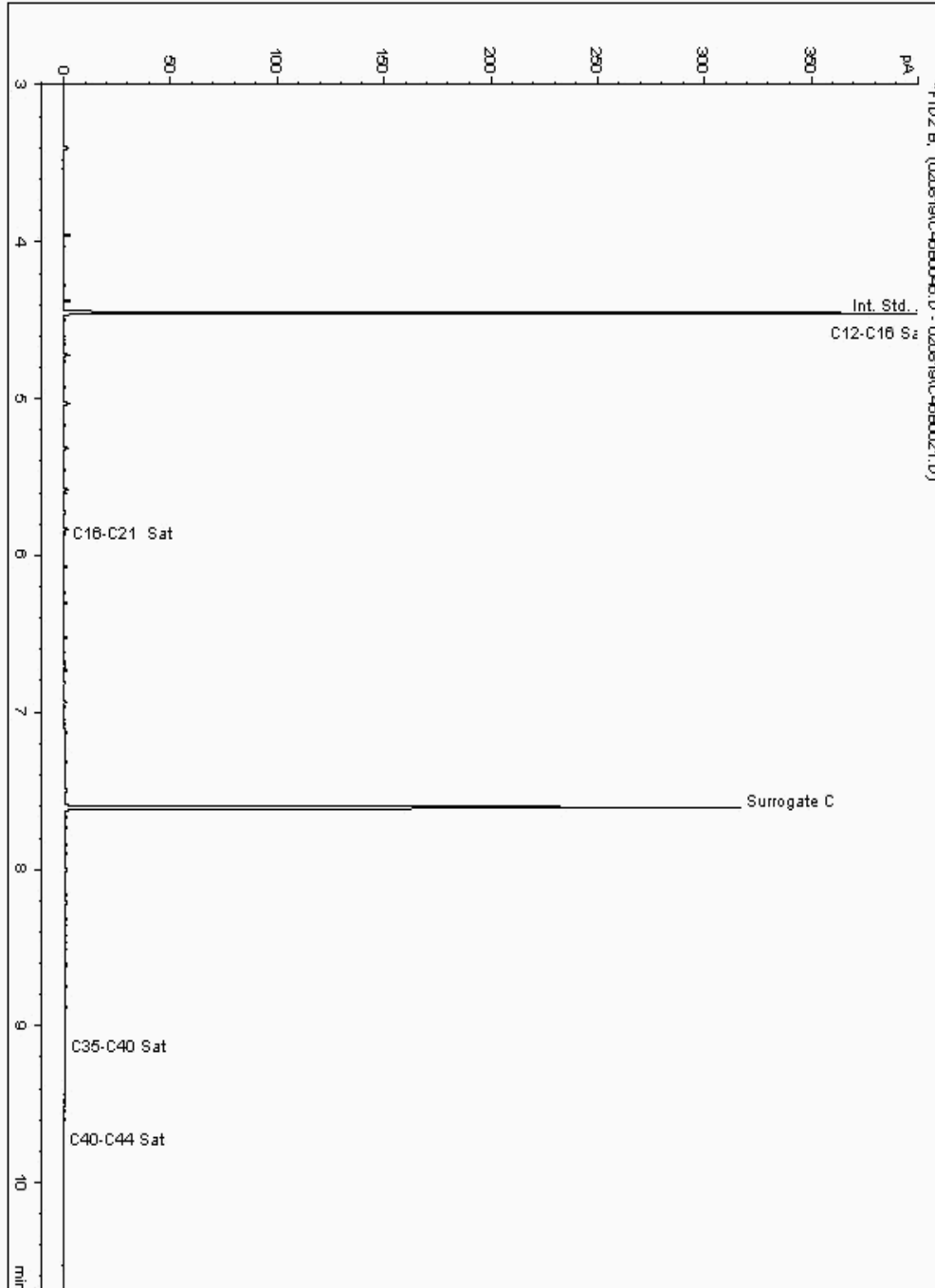
Analysis: EPH CWG (Aliphatic) GC (S)
19261999

Sample No :
Sample ID : BH247

19,261,999Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090412-
Date Acquired : 08/02/2019 22:17:05 PM
Units : ppb
Dilution: BH247[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

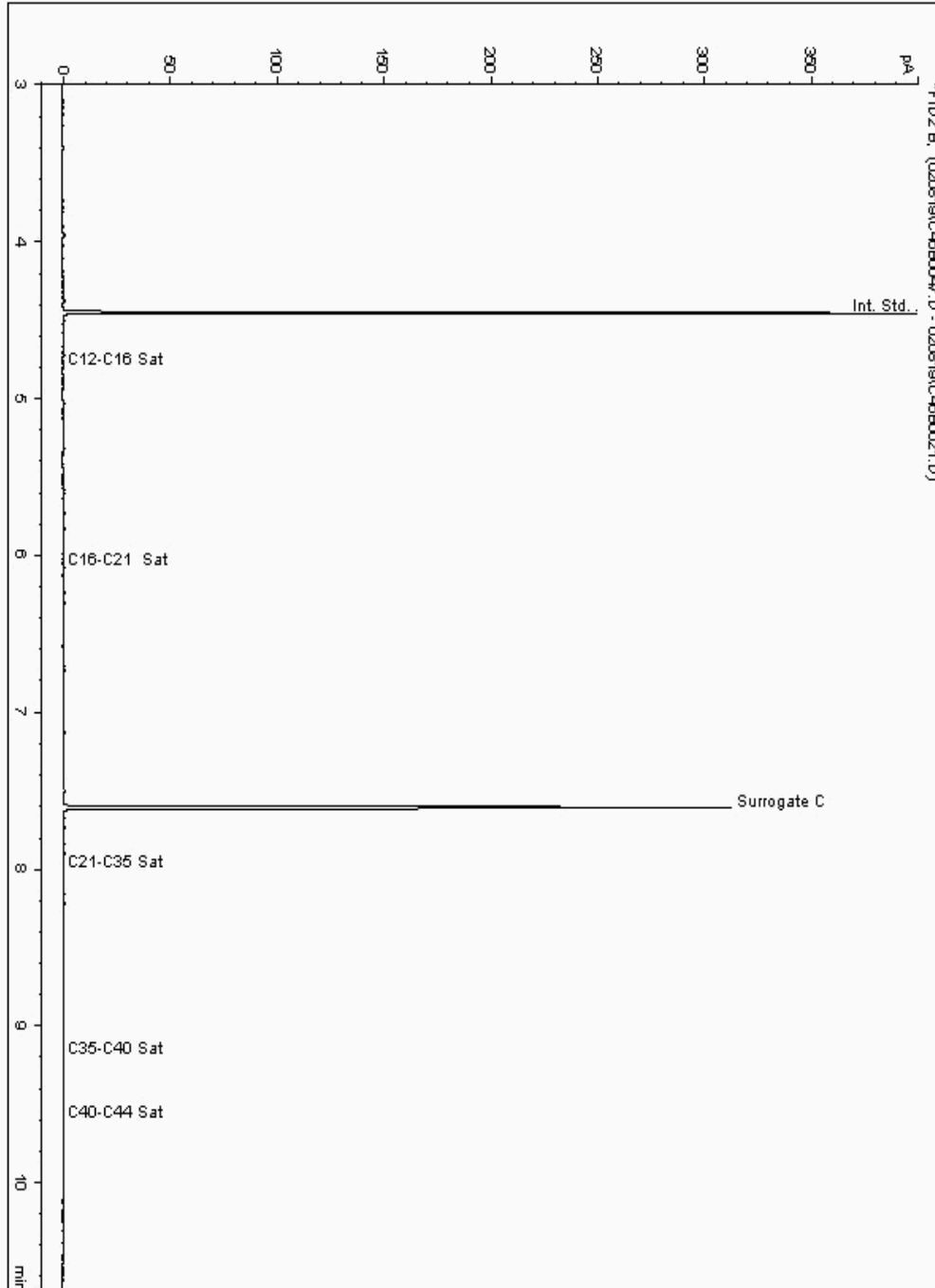
Analysis: EPH CWG (Aliphatic) GC (S)
19262201

Sample No :
Sample ID : BH247

19,262,201 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090357-
Date Acquired : 08/02/2019 22:37:19 PM
Units : ppb
Dilution: BH247[12.00 - 13.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

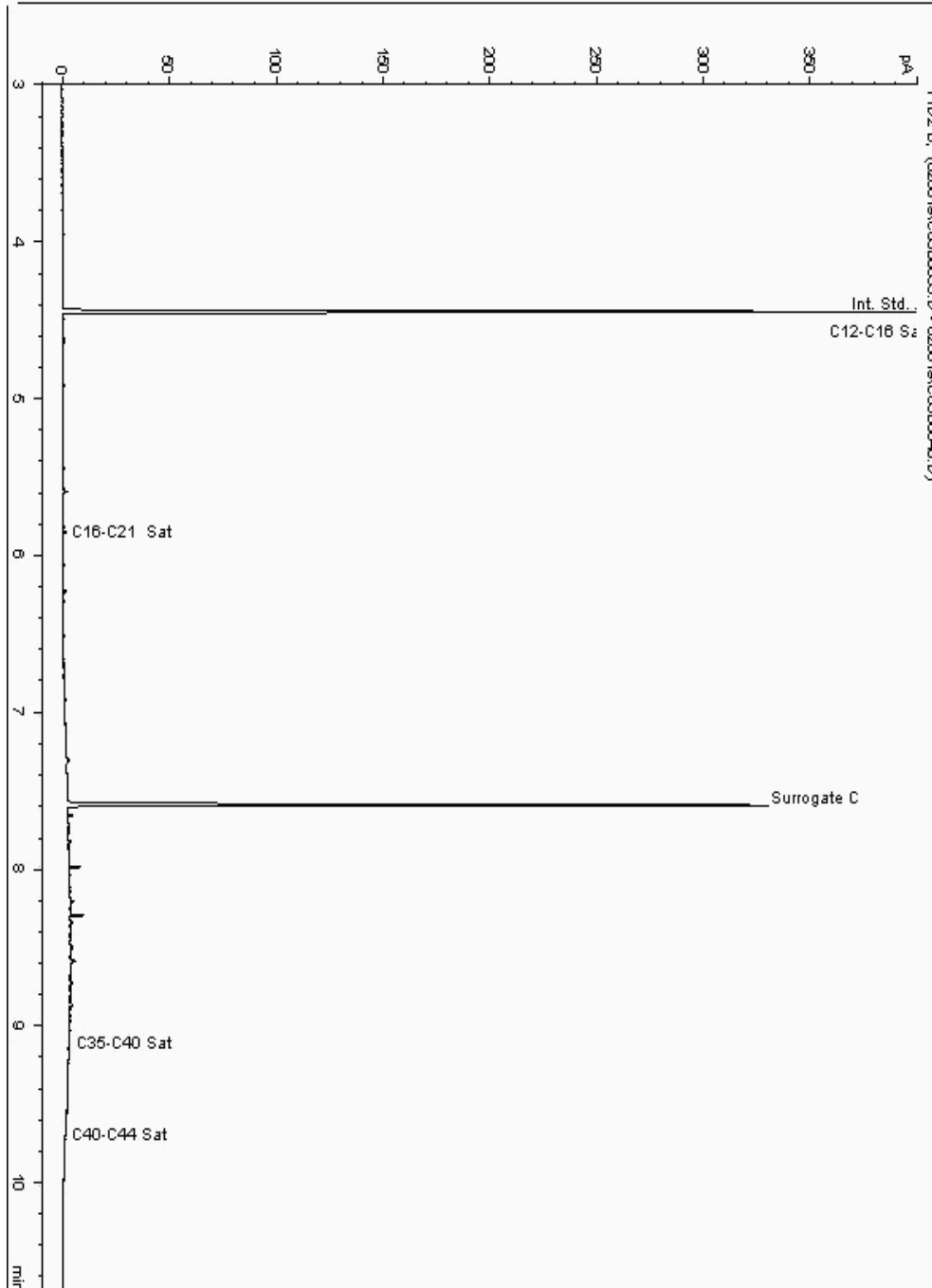
Analysis: EPH CWG (Aliphatic) GC (S)
19262278

Sample No :
Sample ID : BH247

19,262,278 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090259-
Date Acquired : 08/02/2019 23:32:03 PM
Units : ppb
Dilution: BH247[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

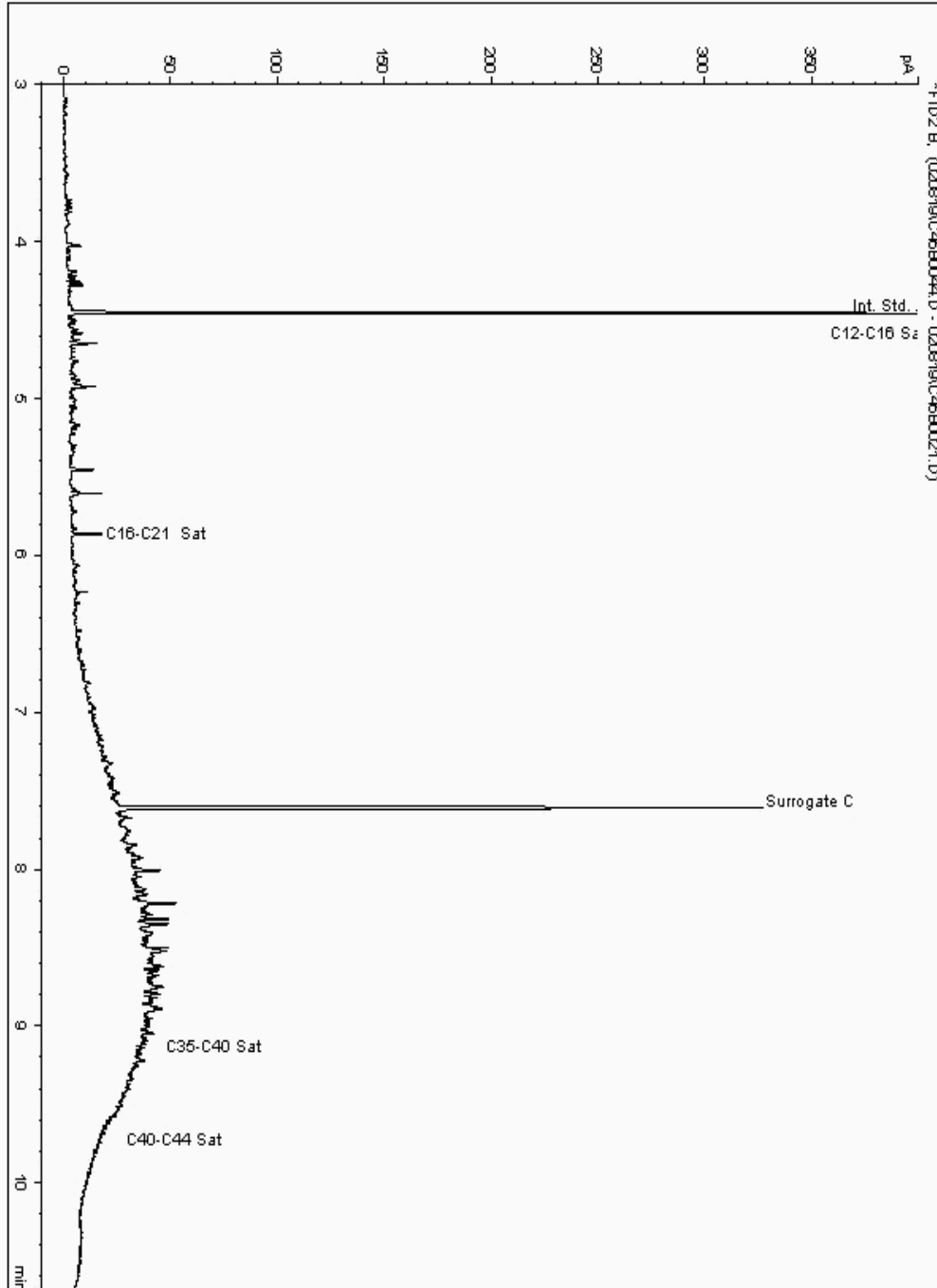
Analysis: EPH CWG (Aliphatic) GC (S)
19262420

Sample No :
Sample ID : BH247

19,262,420 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090237-
Date Acquired : 08/02/2019 21:44:35 PM
Units : ppb
Dilution: BH247[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

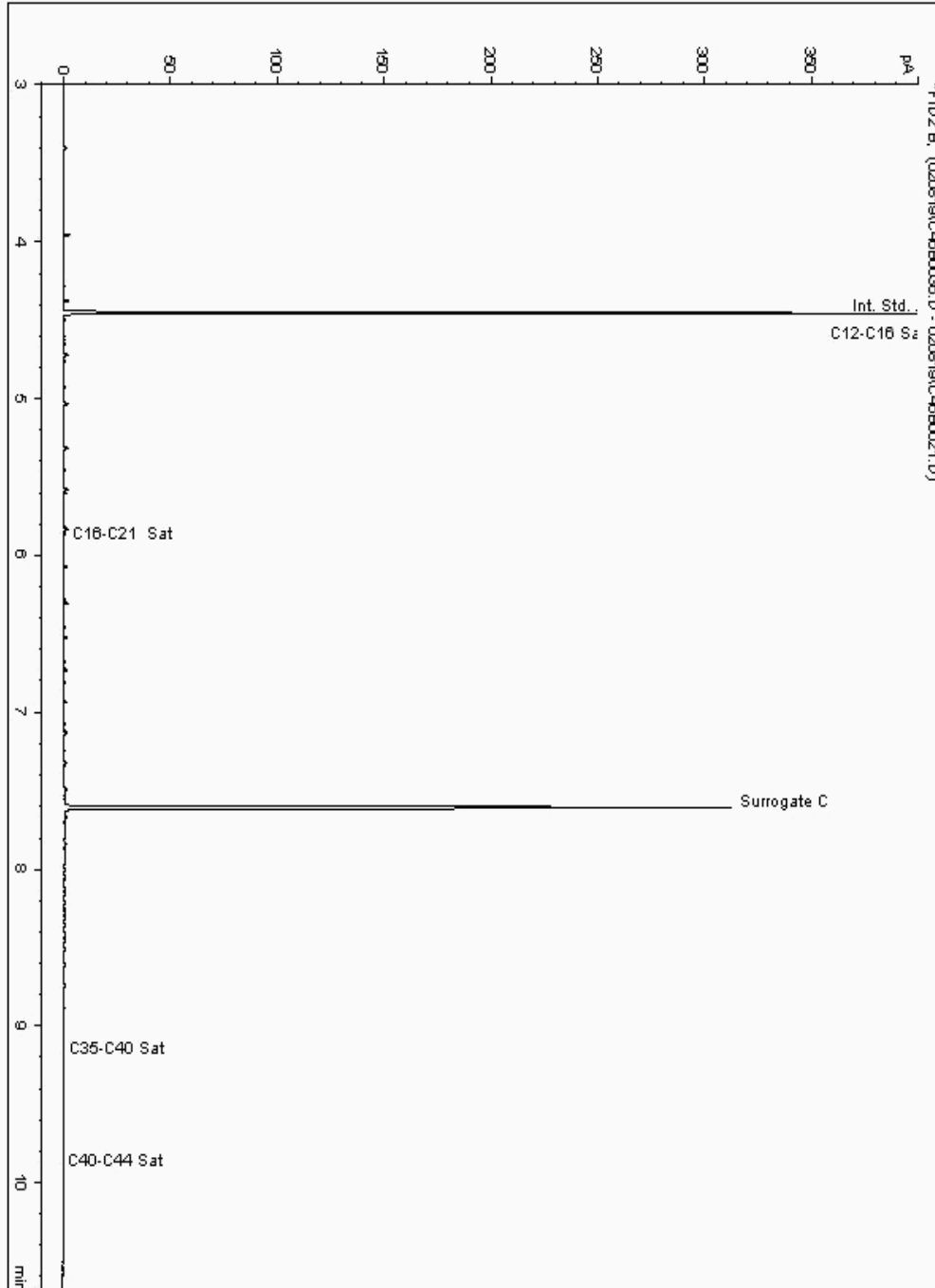
Analysis: EPH CWG (Aliphatic) GC (S)
19262742

Sample No :
Sample ID : BH248

19,262,742Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091024-
Date Acquired : 08/02/2019 19:10:07 PM
Units : ppb
Dilution: BH248[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

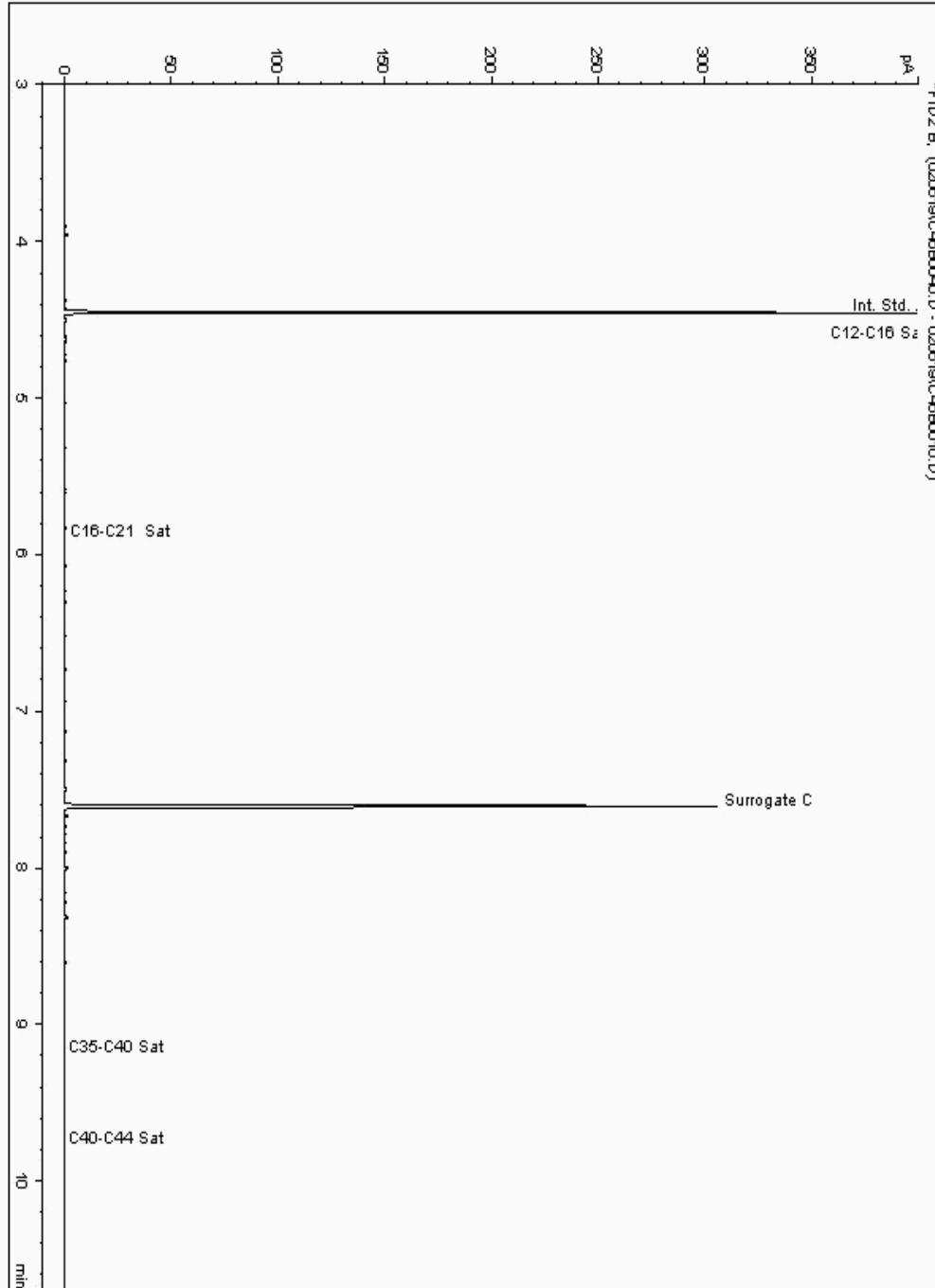
Analysis: EPH CWG (Aliphatic) GC (S)
19270439

Sample No :
Sample ID : BH248

19,270,439 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090524-
Date Acquired : 07/02/2019 00:06:18 PM
Units : ppb
Dilution: BH248[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

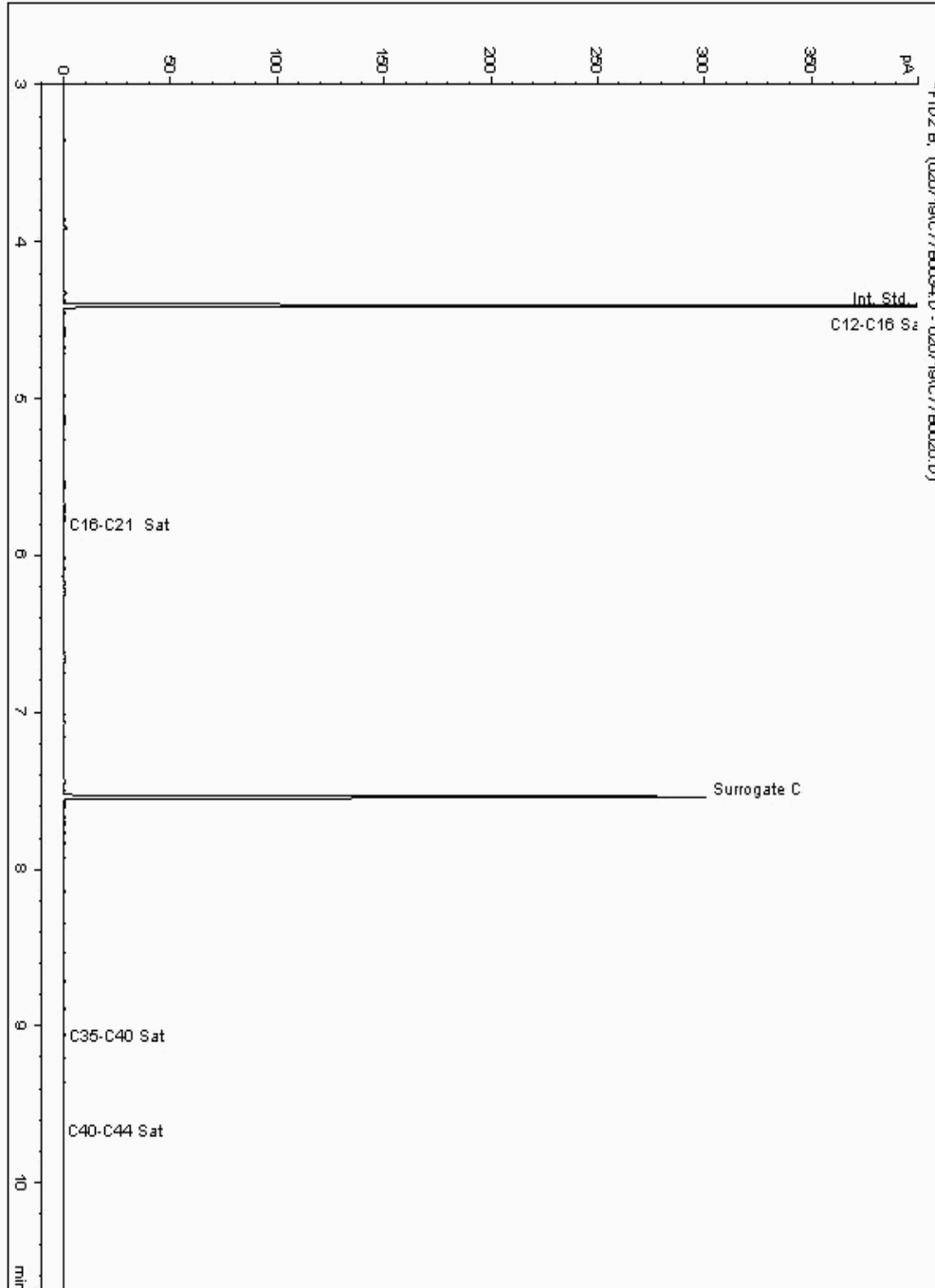
Analysis: EPH CWG (Aliphatic) GC (S)
19270482

Sample No :
Sample ID : BH248

19,270,482 Depth : 10.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090766-
Date Acquired : 07/02/2019 22:35:24 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

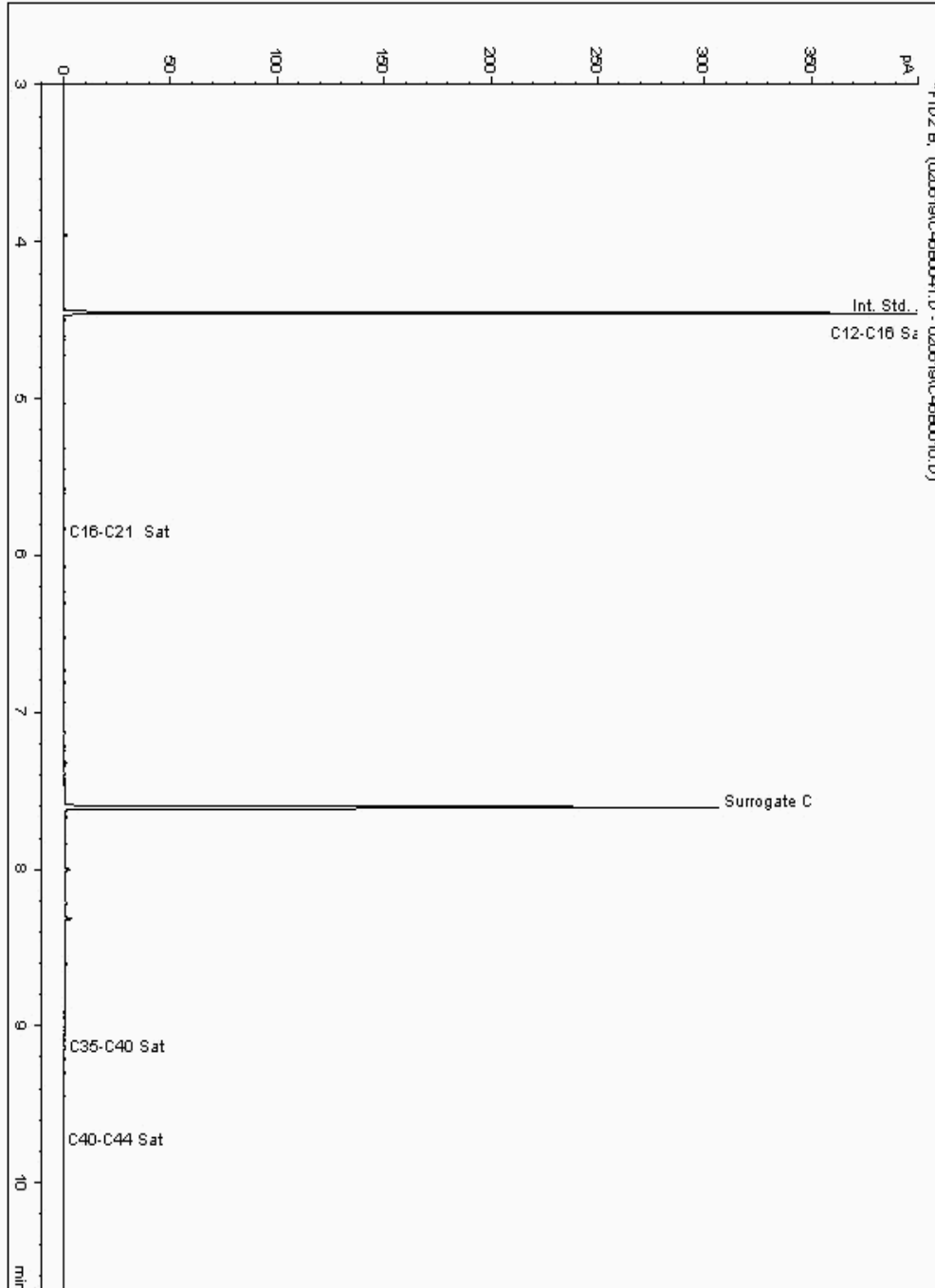
Analysis: EPH CWG (Aliphatic) GC (S)
19270514

Sample No :
Sample ID : BH248

19,270,514 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090498-
Date Acquired : 07/02/2019 00:26:36 PM
Units : ppb
Dilution: BH248[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

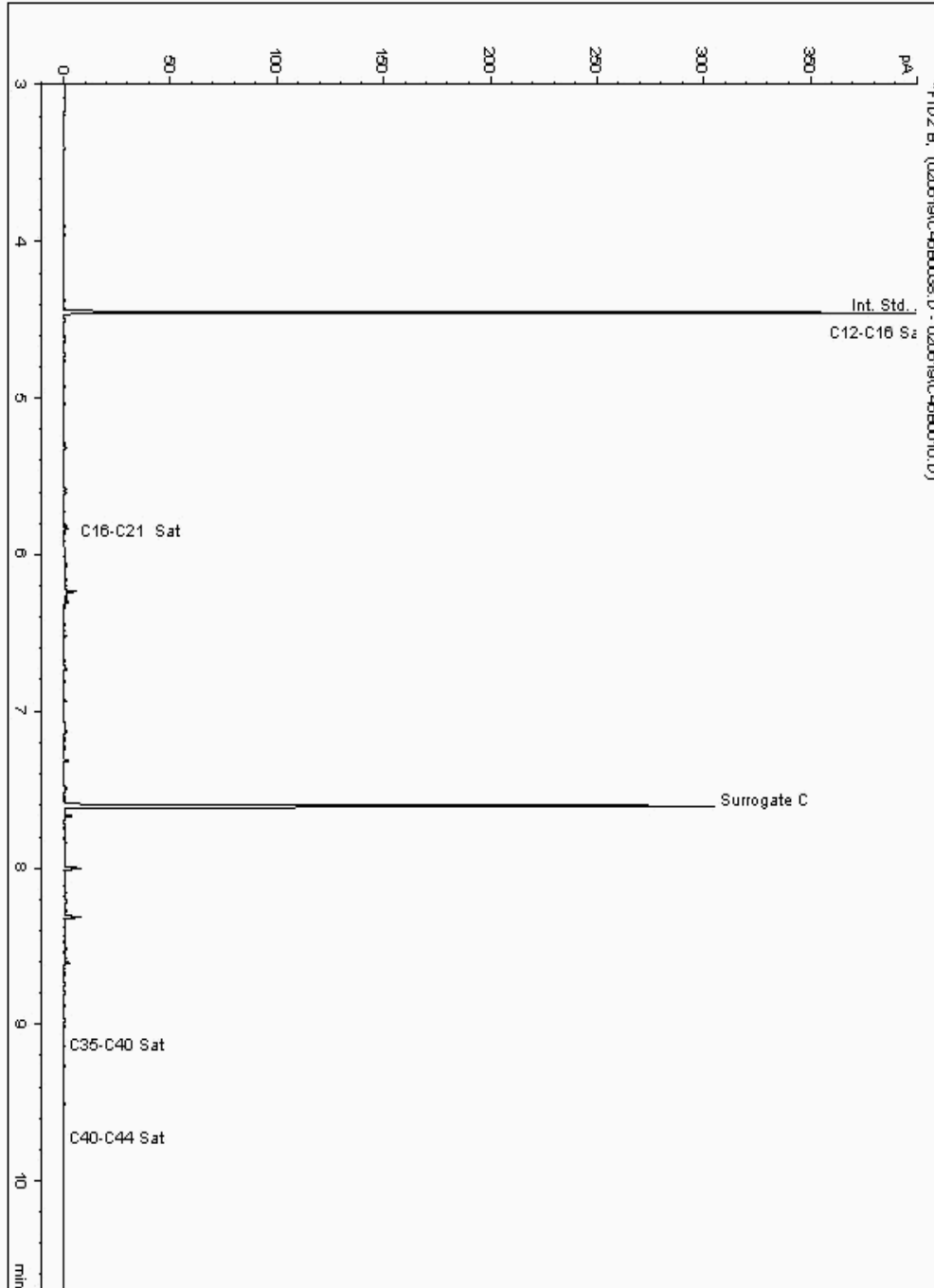
Analysis: EPH CWG (Aliphatic) GC (S)
19270637

Sample No :
Sample ID : BH248

19,270,637Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090554-
Date Acquired : 06/02/2019 23:33:47 PM
Units : ppb
Dilution: BH248[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

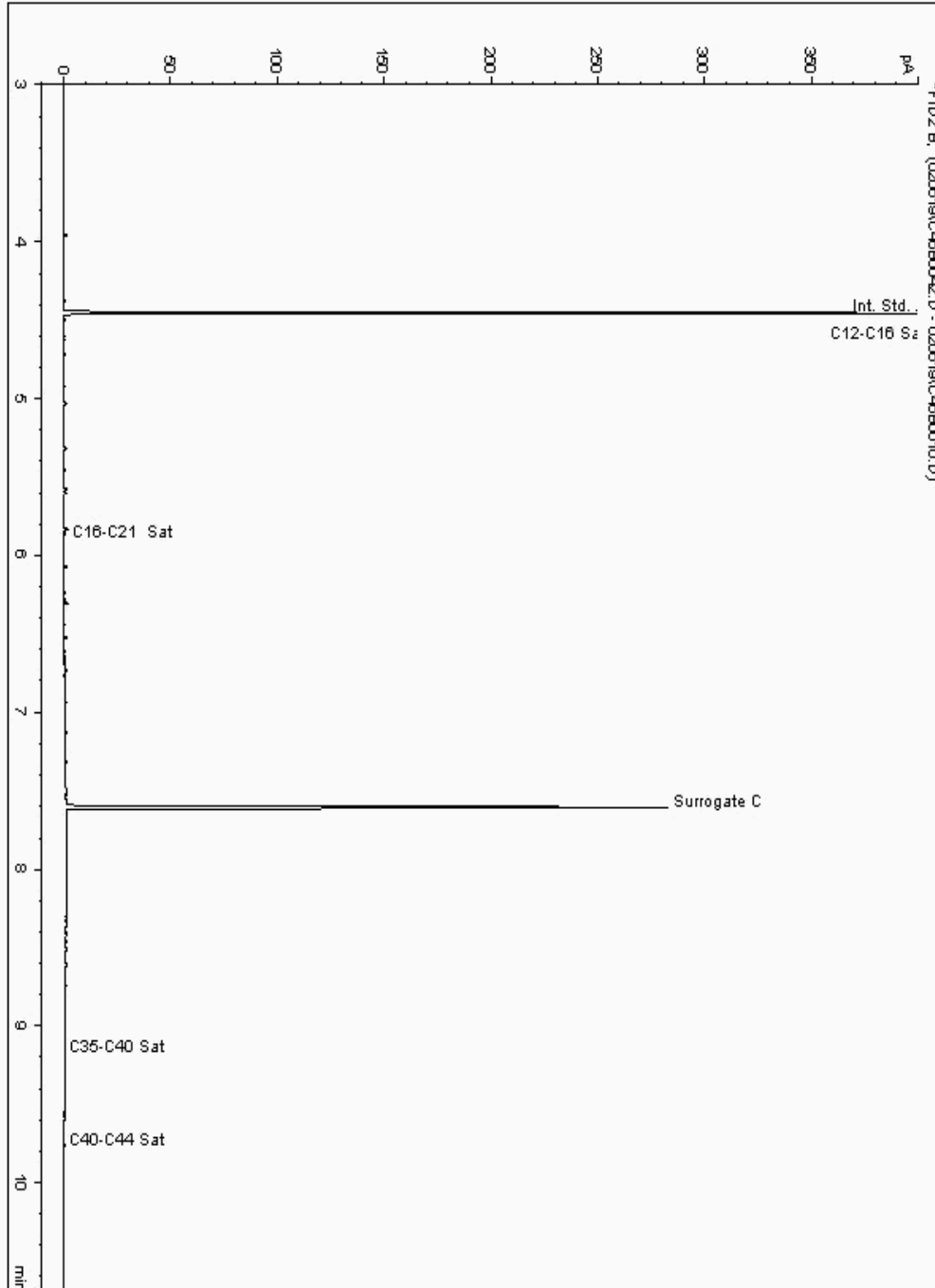
Analysis: EPH CWG (Aliphatic) GC (S)
19270679

Sample No :
Sample ID : BH248

19,270,679 Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090439-
Date Acquired : 07/02/2019 00:47:06 PM
Units : ppb
Dilution: BH248[0.00 - 0.50] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

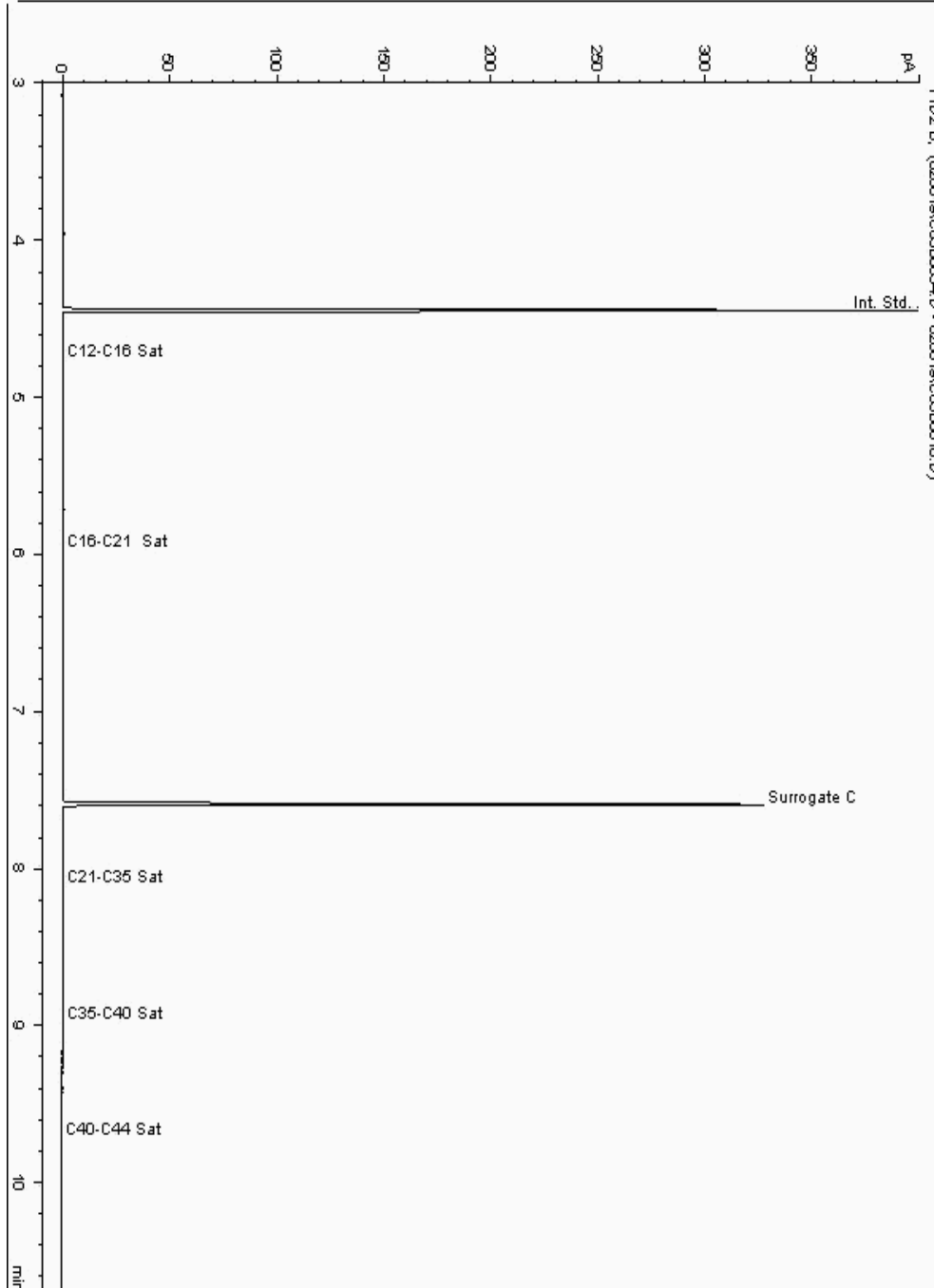
Analysis: EPH CWG (Aliphatic) GC (S)
19270760

Sample No :
Sample ID : BH248

19,270,760 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090816-
Date Acquired : 08/02/2019 16:49:34 PM
Units : ppb
Dilution: BH248[11.00 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

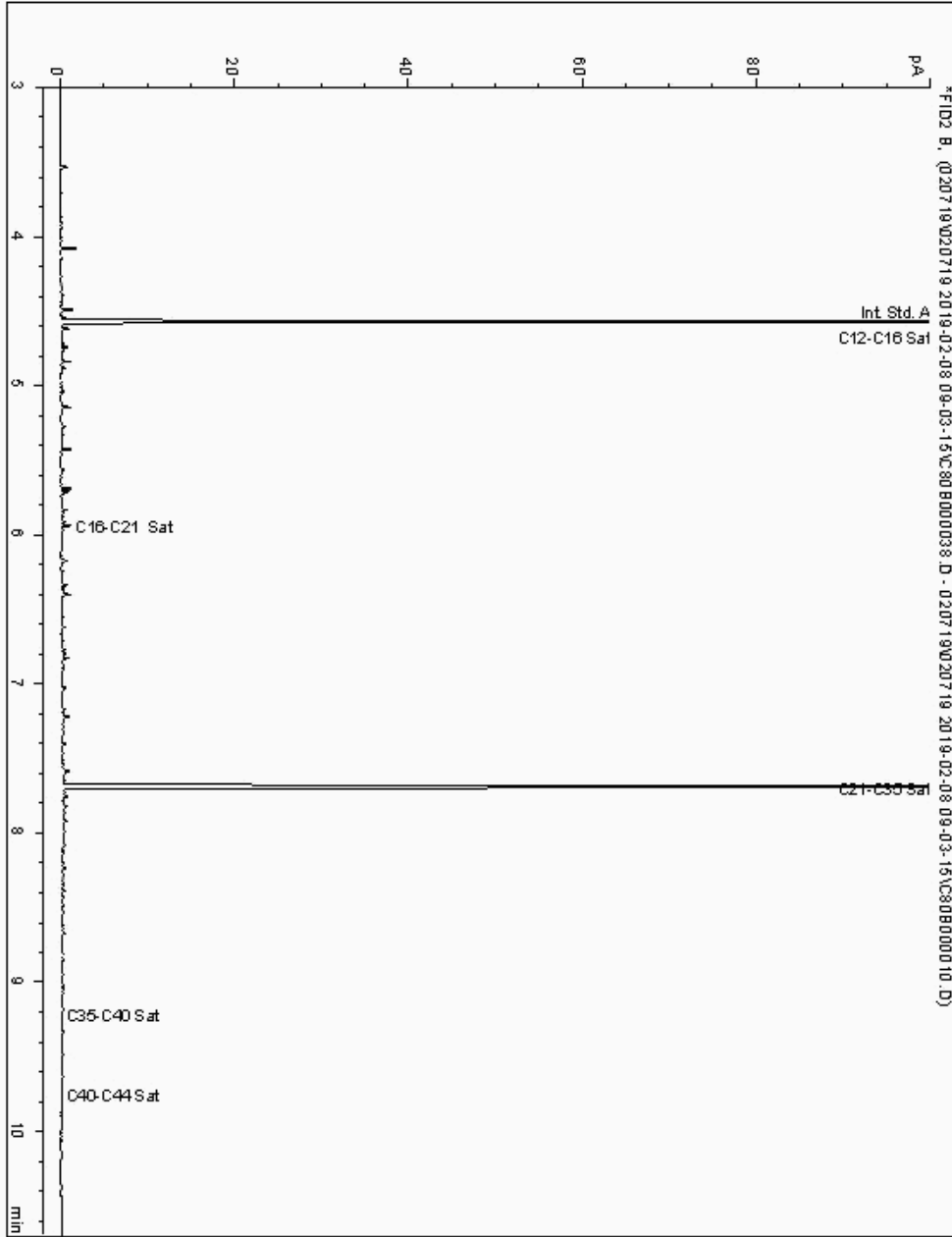
Analysis: EPH CWG (Aliphatic) GC (S)
19271458

Sample No :
Sample ID : BH248

19,271,458Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090886-
Date Acquired : 07/02/19 19:52:35
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

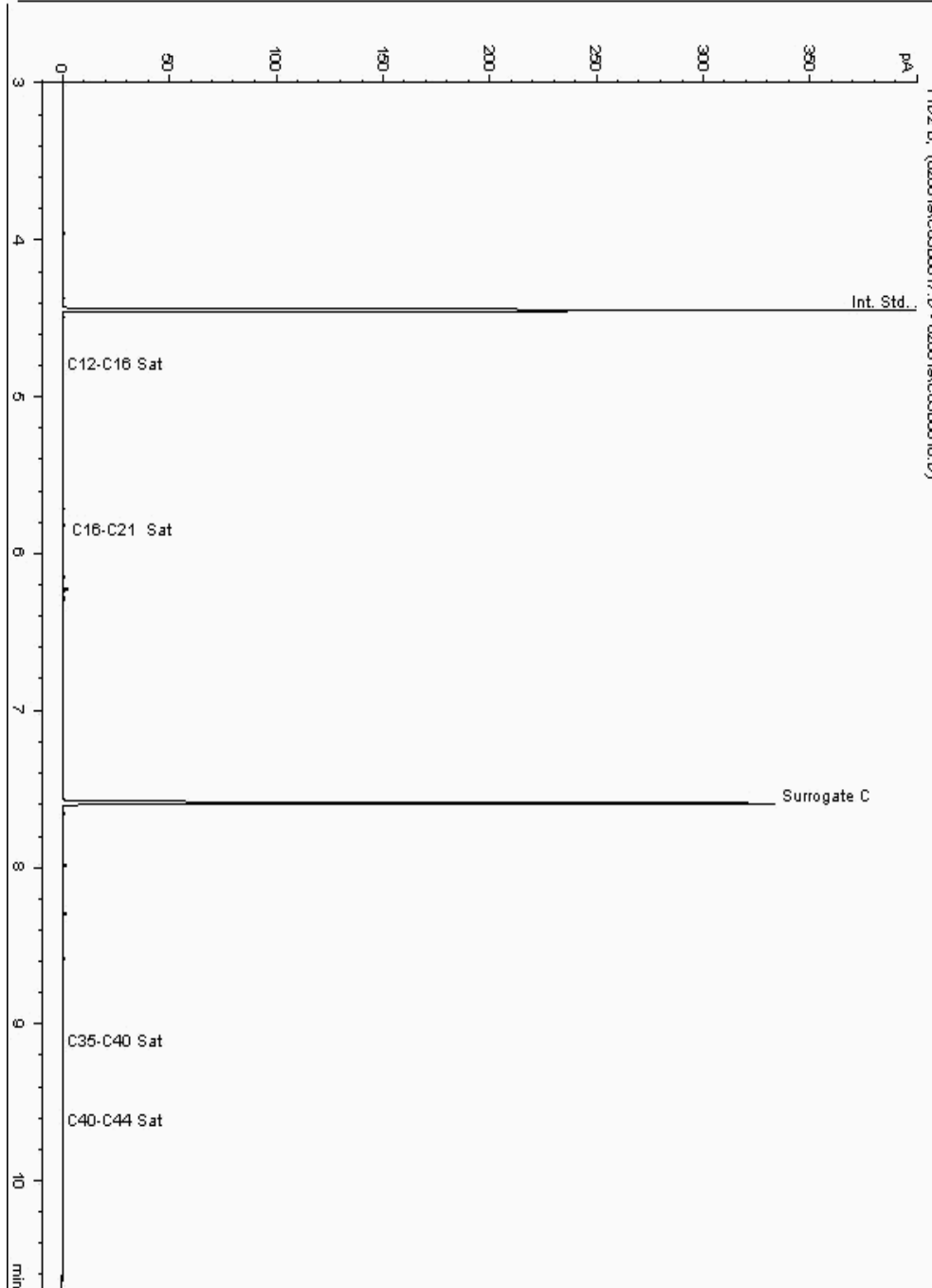
Analysis: EPH CWG (Aliphatic) GC (S)
19271544

Sample No :
Sample ID : BH248

19,271,544 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090612-
Date Acquired : 08/02/2019 11:59:08 PM
Units : ppb
Dilution: BH248[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

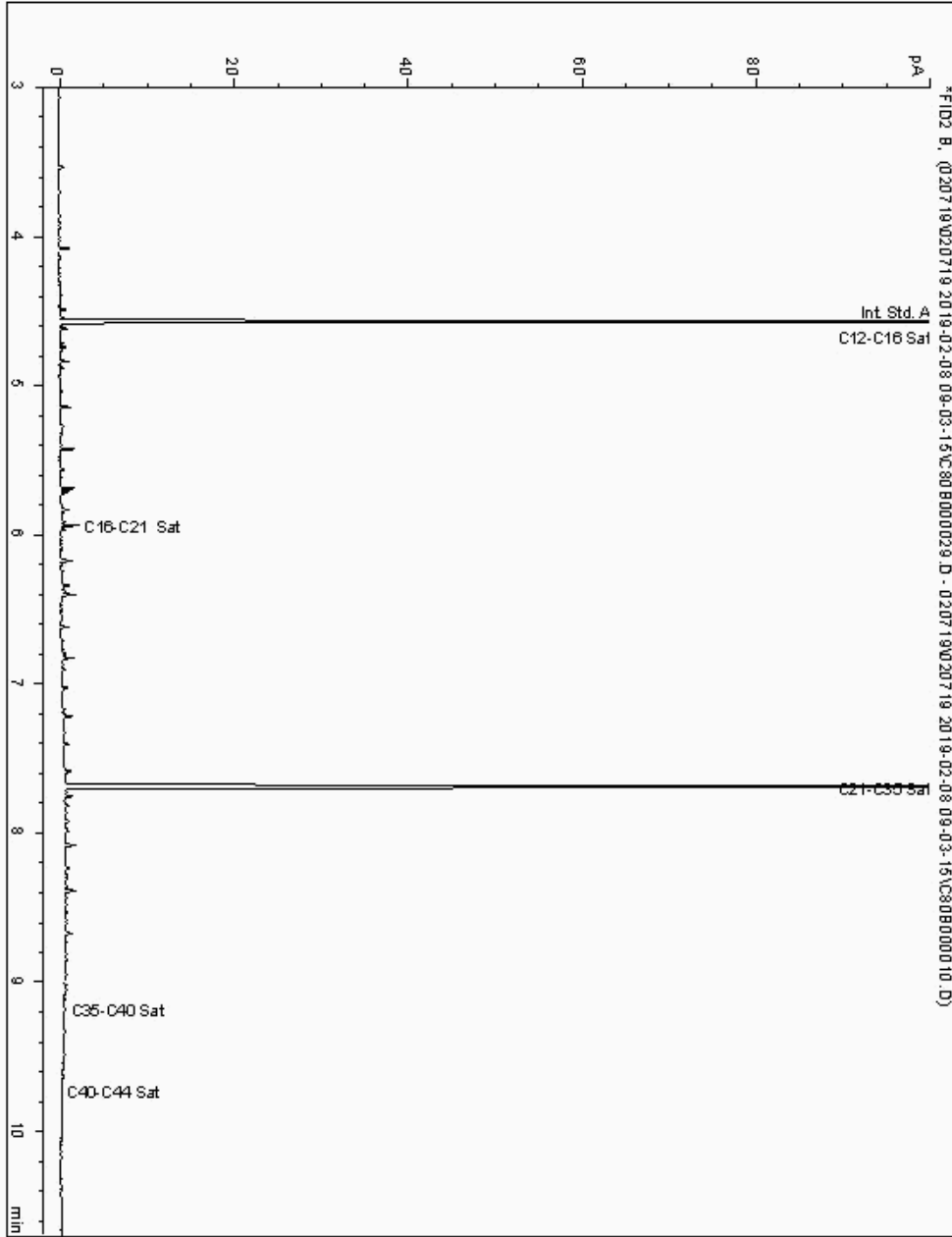
Analysis: EPH CWG (Aliphatic) GC (S)
19271646

Sample No :
Sample ID : BH248

19,271,646Depth : 7.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090718-
Date Acquired : 07/02/19 17:35:25
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

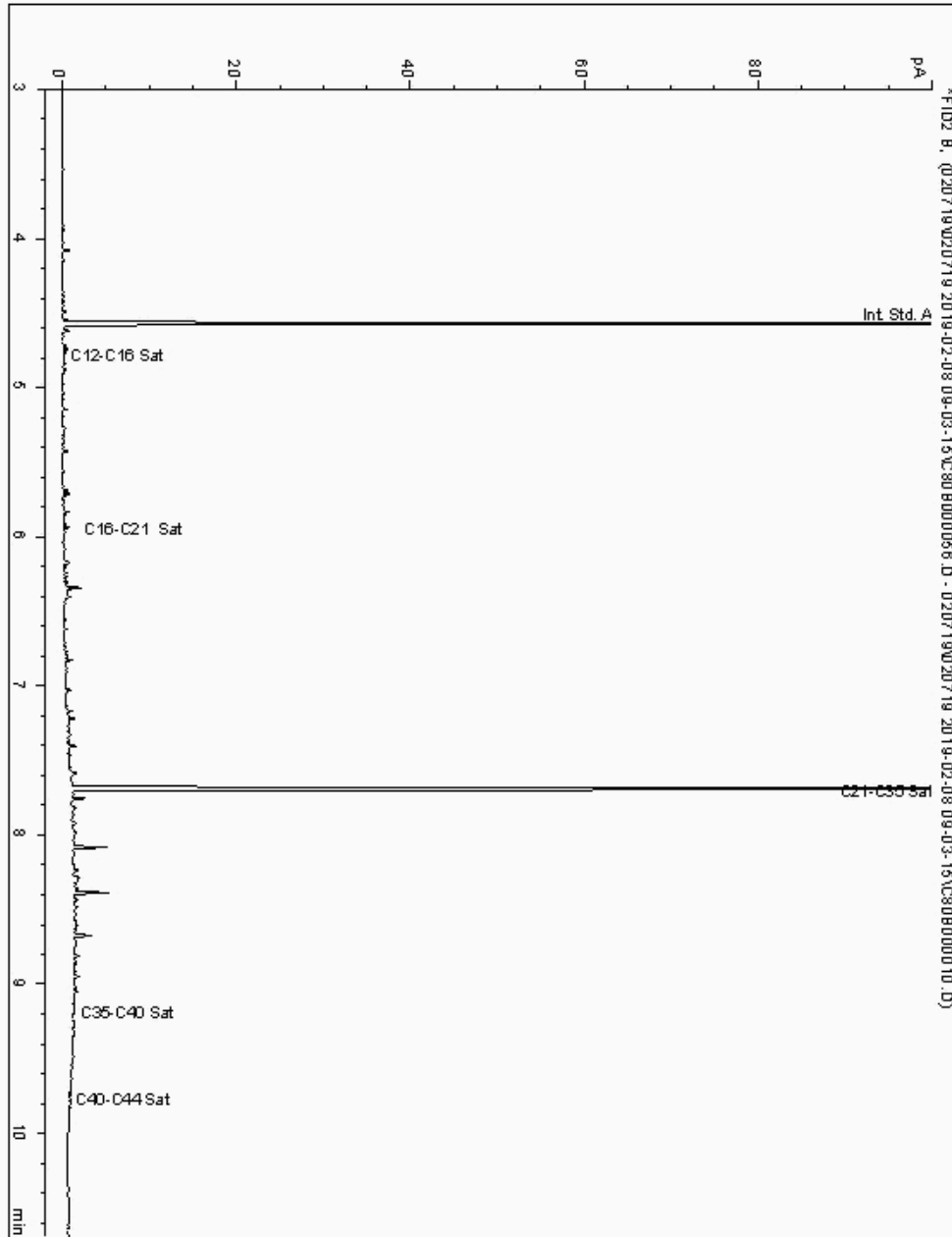
Analysis: EPH CWG (Aliphatic) GC (S)
19271706

Sample No :
Sample ID : BH248

19,271,706Depth : 5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090667-
Date Acquired : 08/02/19 00:15:20
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

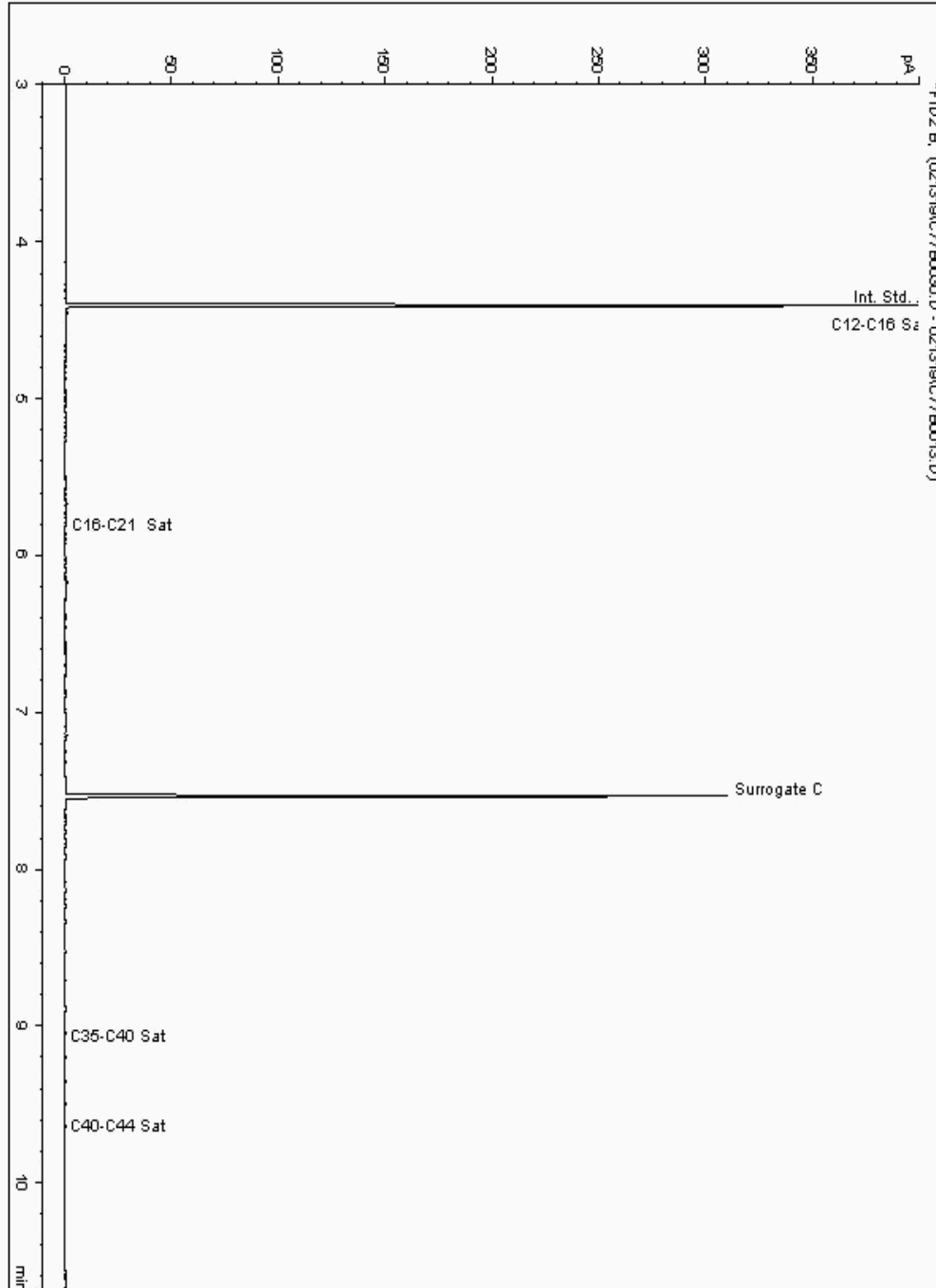
Analysis: EPH CWG (Aliphatic) GC (S)
19313384

Sample No :
Sample ID : BH249

19,313,384 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109930-
Date Acquired : 13/02/2019 18:45:23 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

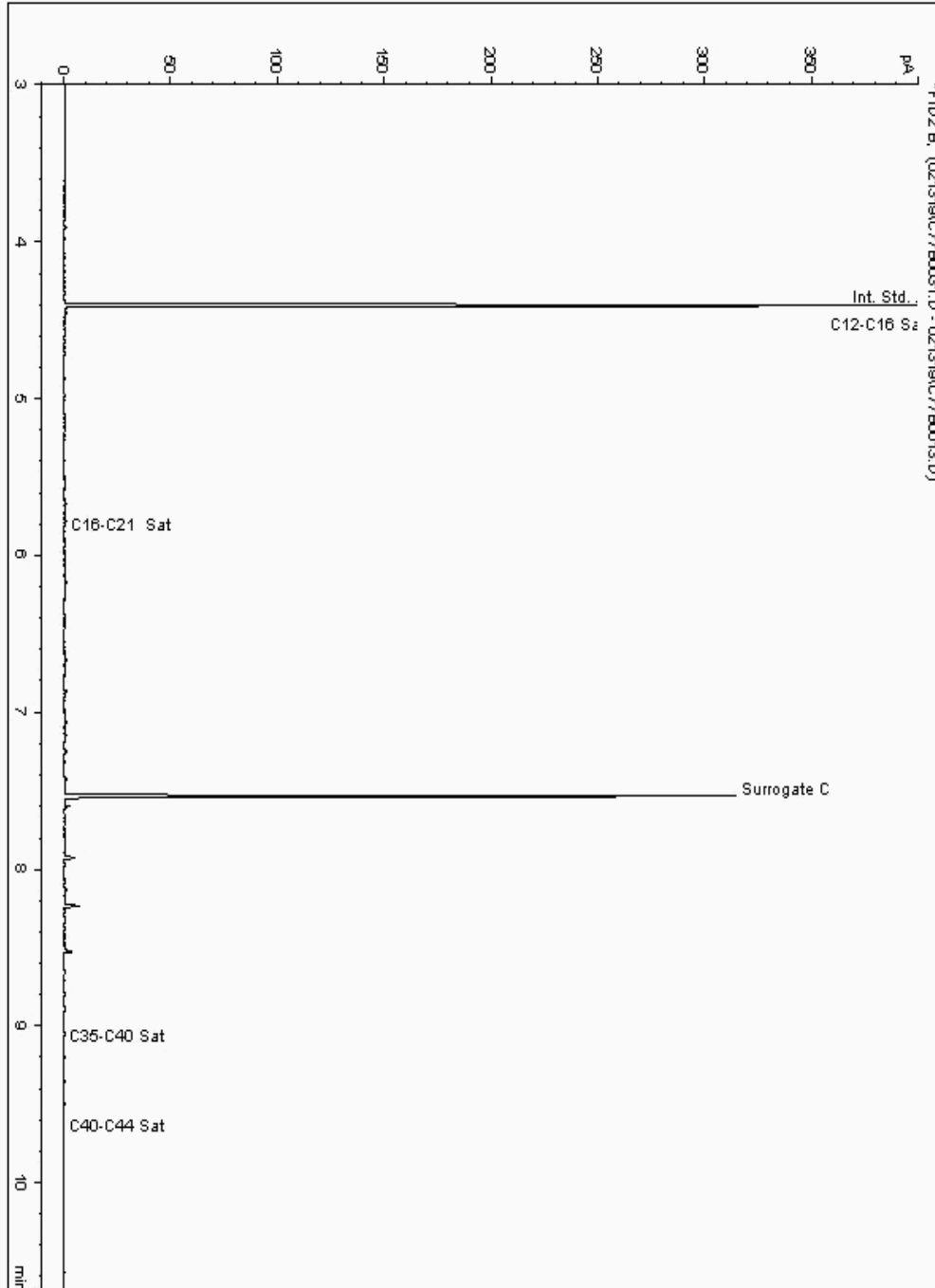
Analysis: EPH CWG (Aliphatic) GC (S)
19313462

Sample No :
Sample ID : BH249

19,313,462 Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109879-
Date Acquired : 13/02/2019 19:05:29 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

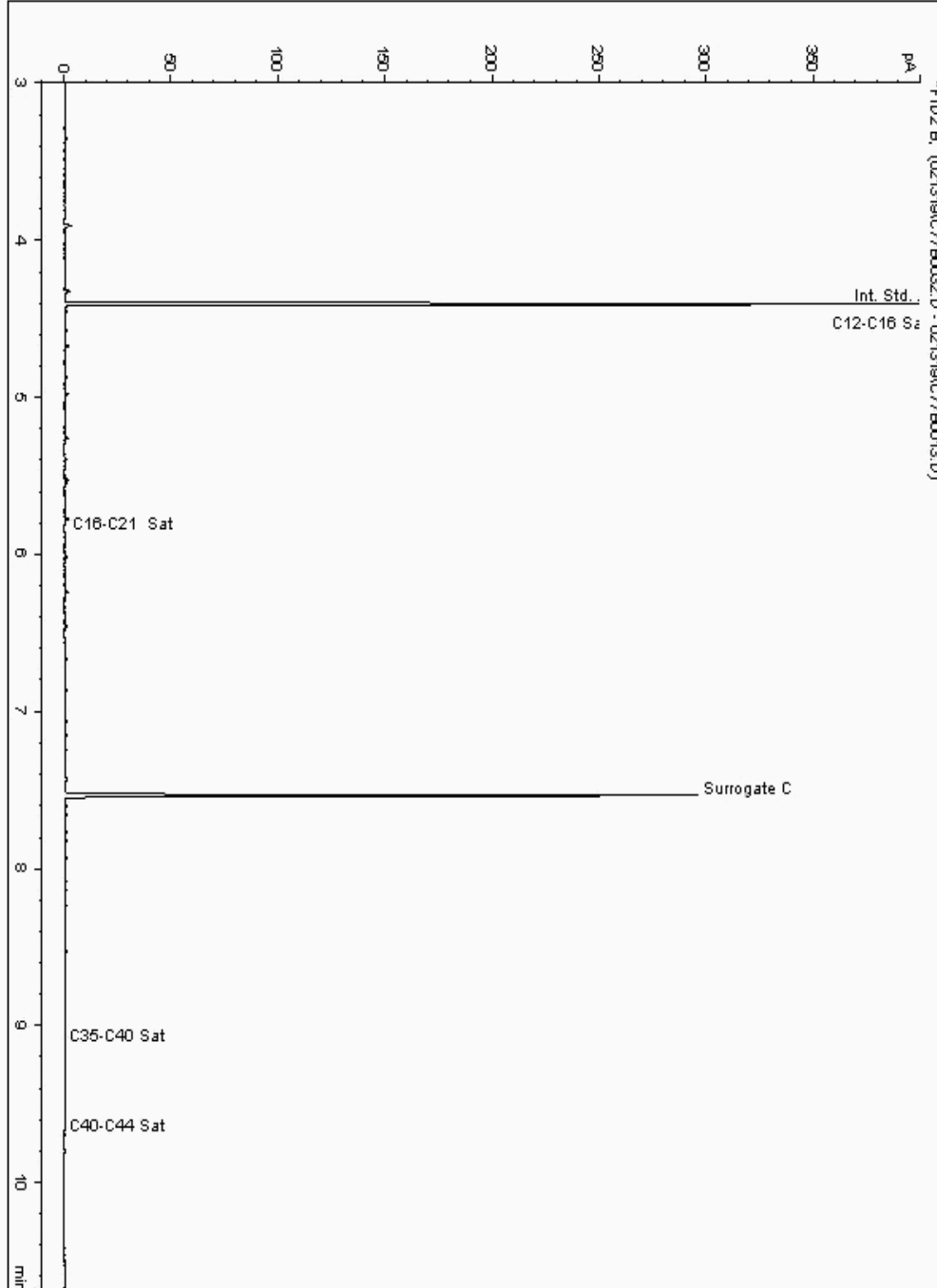
Analysis: EPH CWG (Aliphatic) GC (S)
19313614

Sample No :
Sample ID : BH249

19,313,614 Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109731-
Date Acquired : 13/02/2019 19:25:27 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

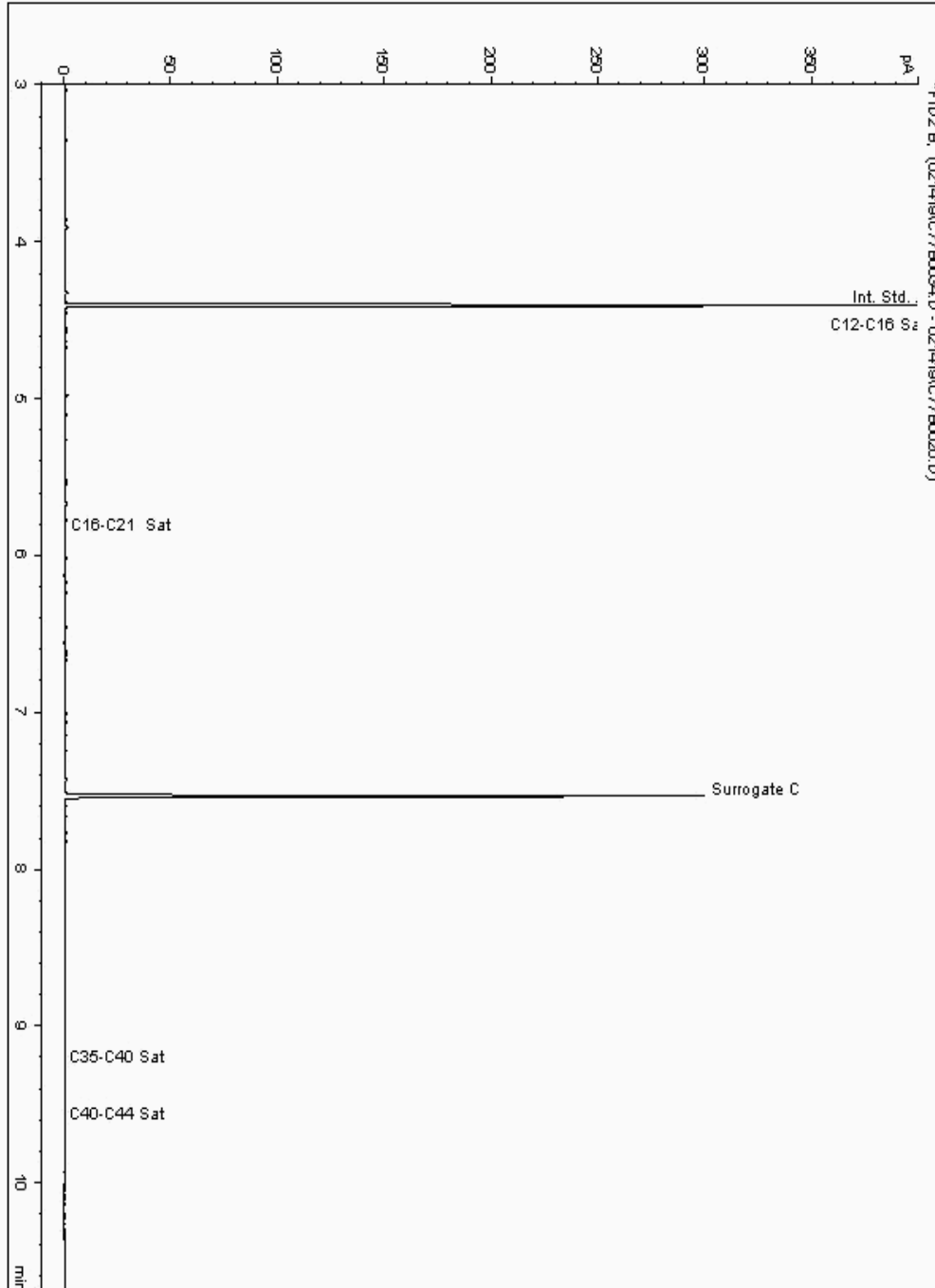
Analysis: EPH CWG (Aliphatic) GC (S)
19313681

Sample No :
Sample ID : BH249

19,313,681 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110192-
Date Acquired : 14/02/2019 22:07:21 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

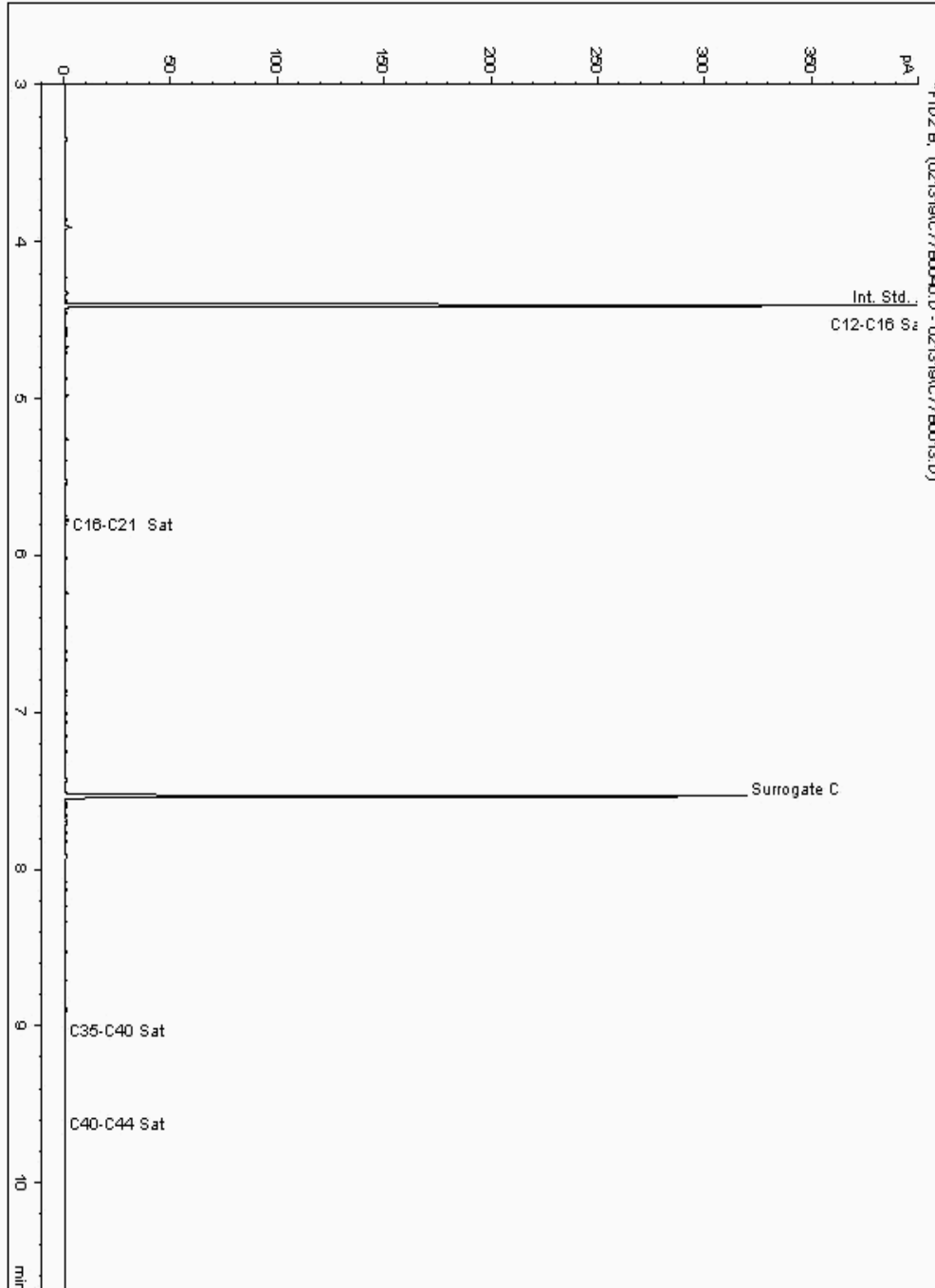
Analysis: EPH CWG (Aliphatic) GC (S)
19313743

Sample No :
Sample ID : BH249

19,313,743 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110259-
Date Acquired : 13/02/2019 21:40:50 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

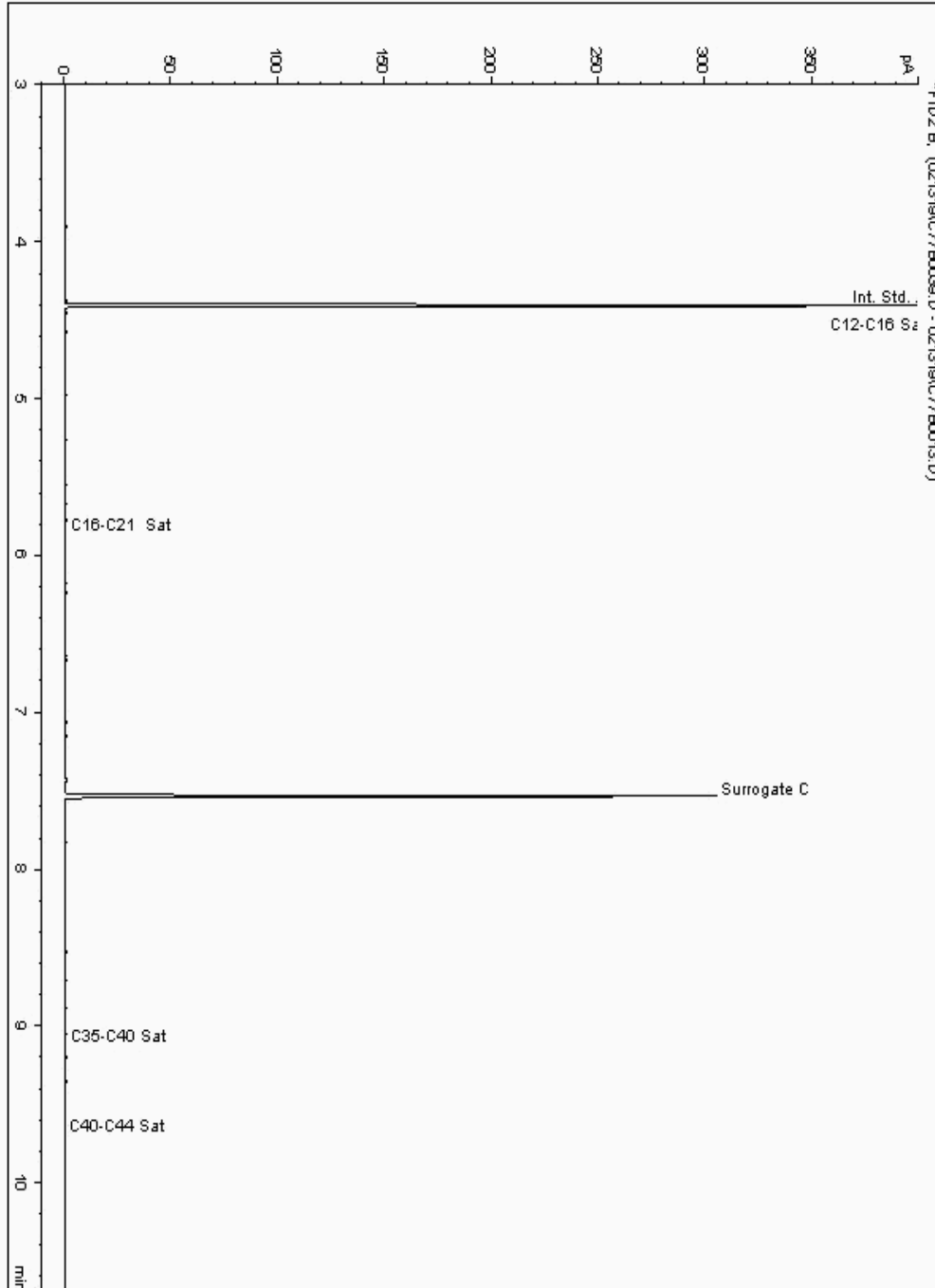
Analysis: EPH CWG (Aliphatic) GC (S)
19313906

Sample No :
Sample ID : BH249

19,313,906Depth :6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110027-
Date Acquired : 13/02/2019 21:20:49 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

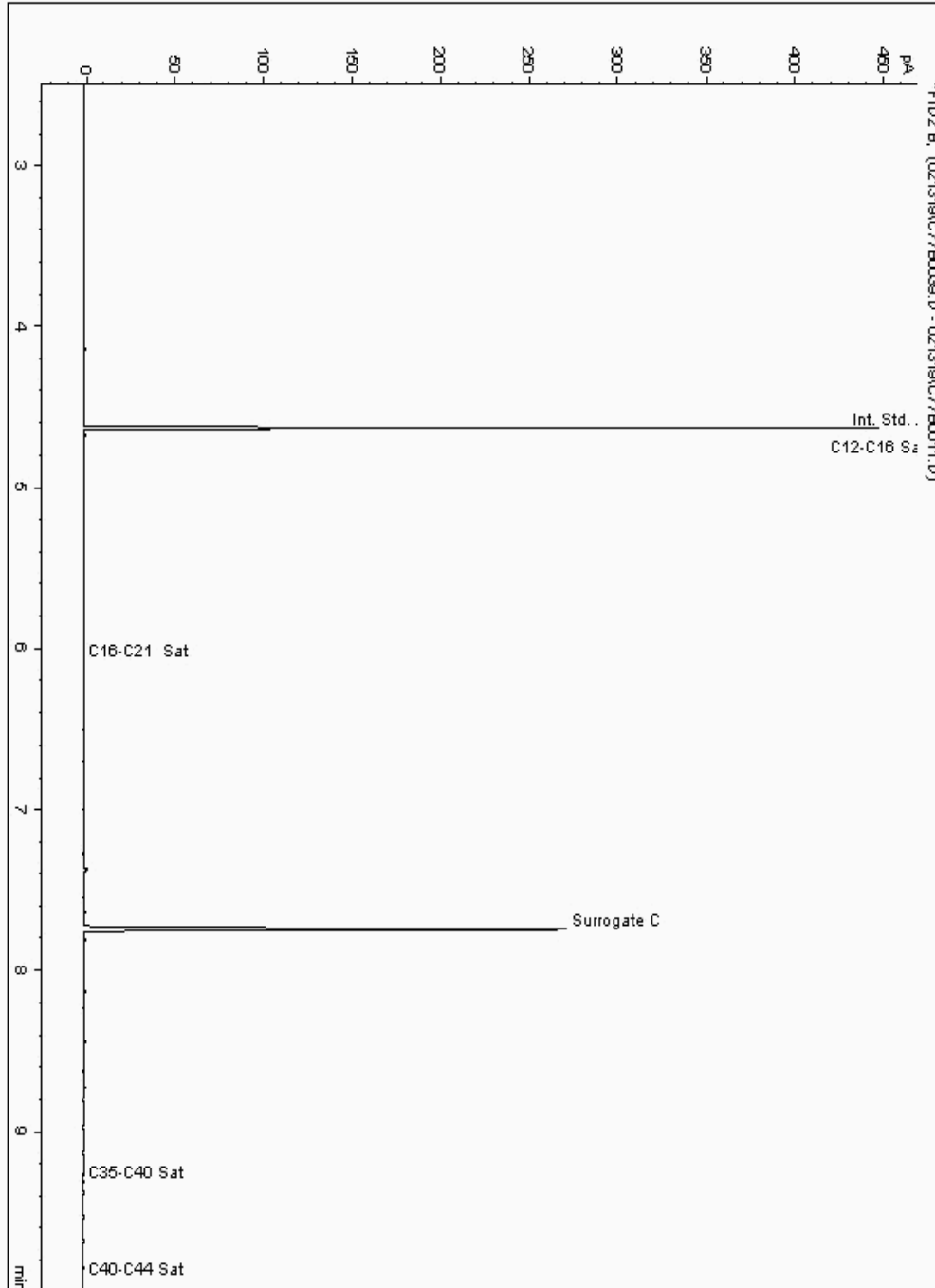
Analysis: EPH CWG (Aliphatic) GC (S)
19313980

Sample No :
Sample ID : BH249

19,313,980 Depth : 5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109955-
Date Acquired : 2/13/2019 7:34:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

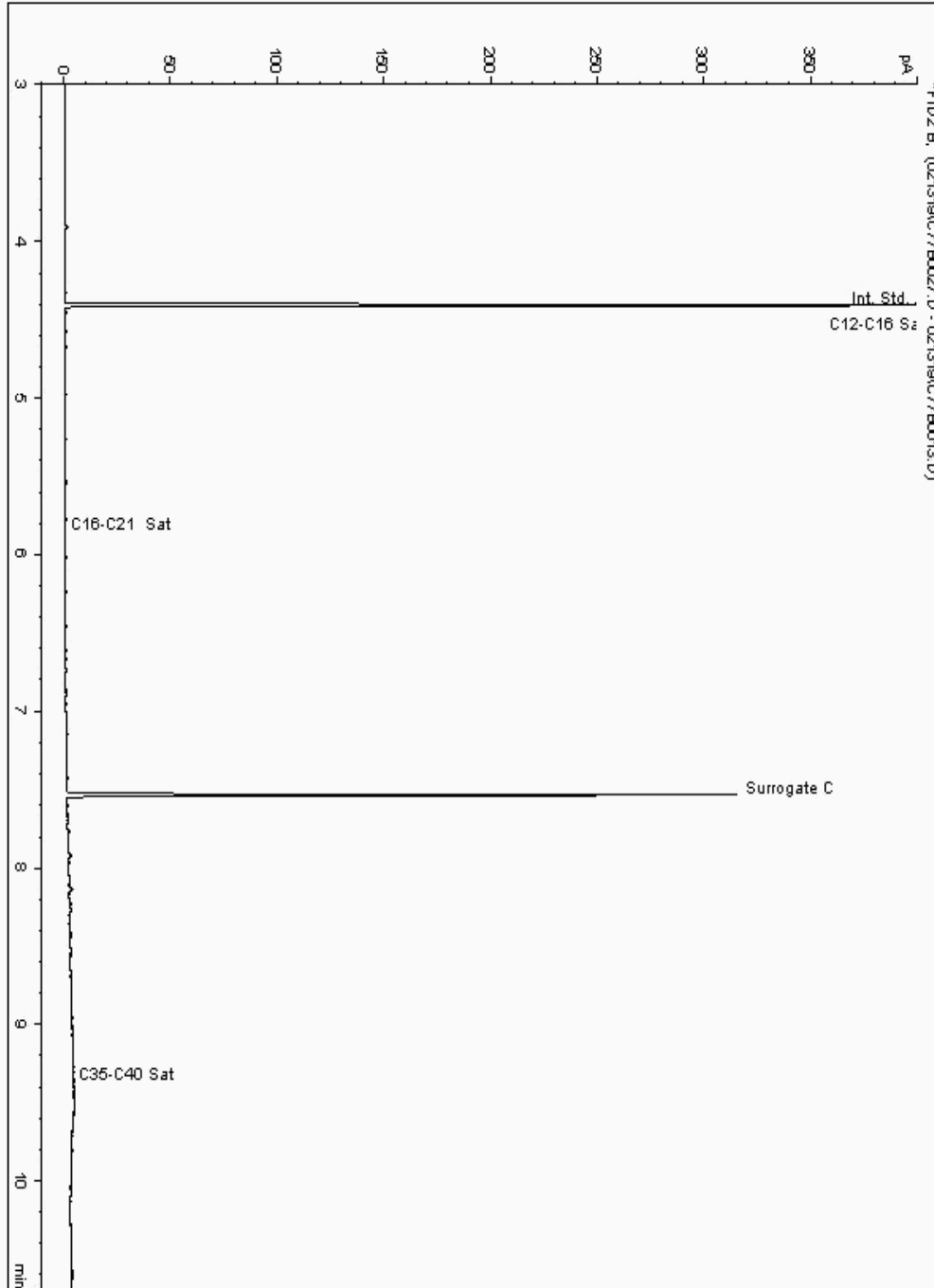
Analysis: EPH CWG (Aliphatic) GC (S)
19314065

Sample No :
Sample ID : BH249

19,314,065 Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109755-
Date Acquired : 13/02/2019 18:01:39 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

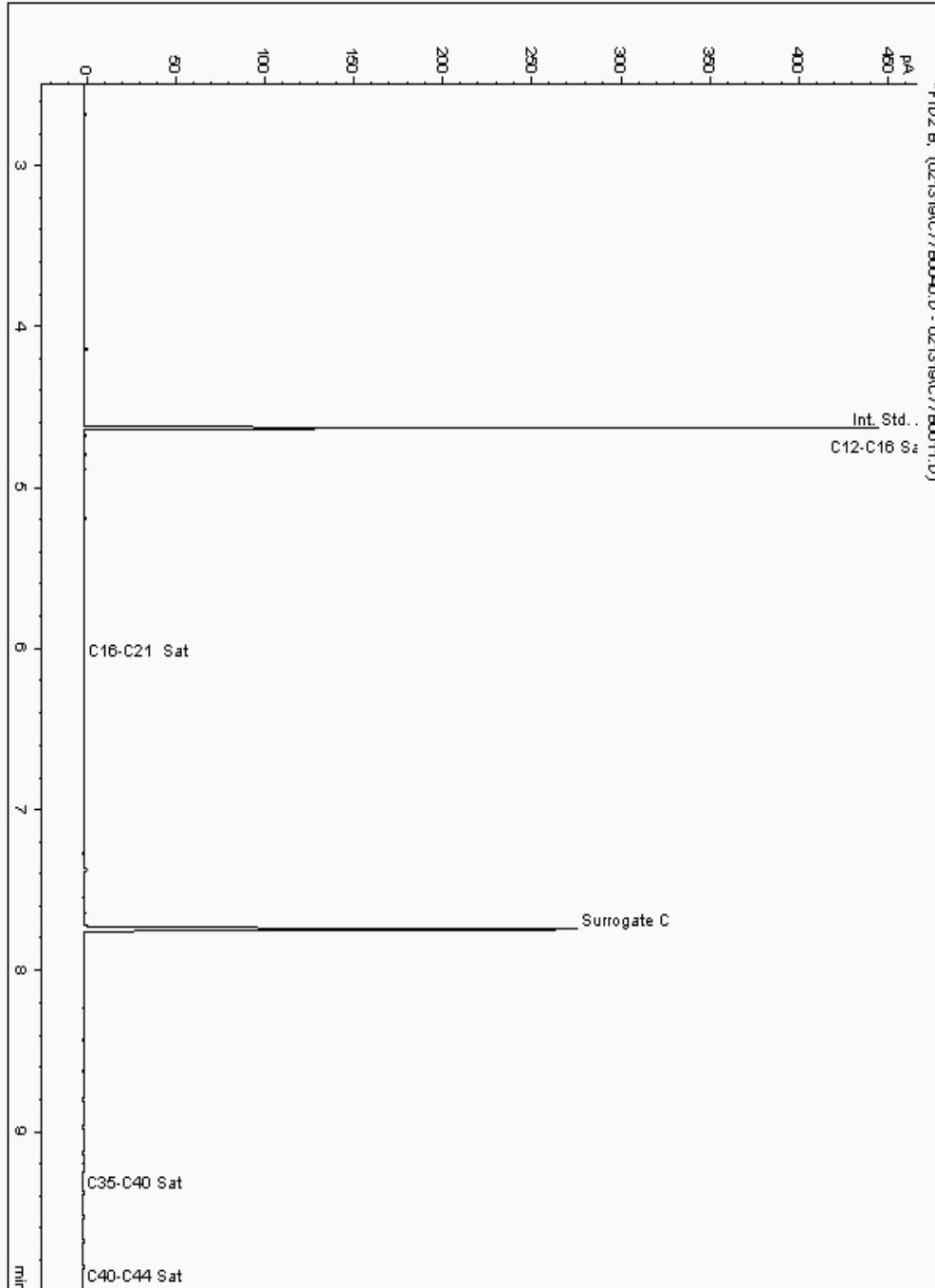
Analysis: EPH CWG (Aliphatic) GC (S)
19314111

Sample No :
Sample ID : BH249

19,314,111Depth :9.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110092-
Date Acquired : 2/13/2019 7:54:50 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

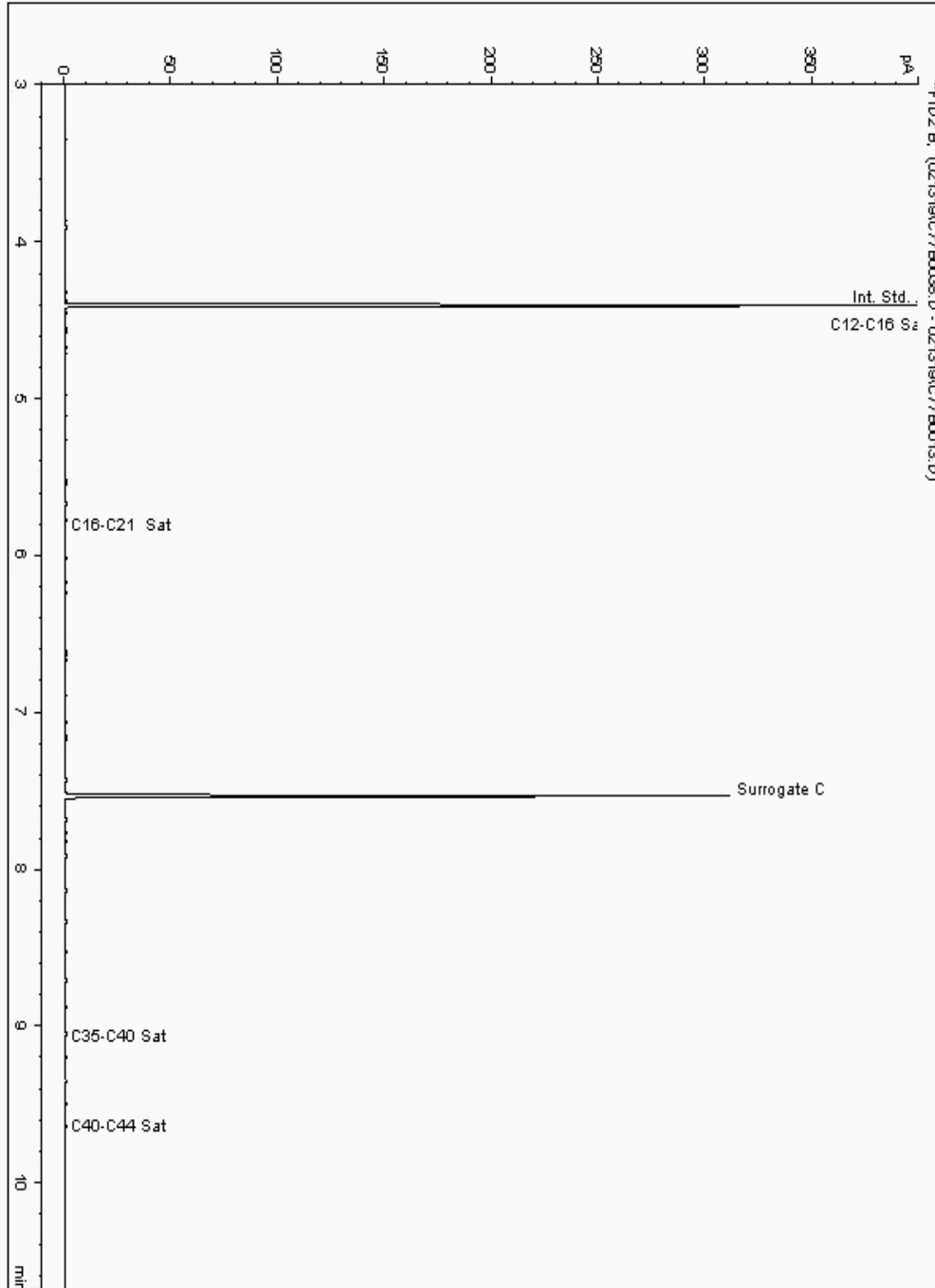
Analysis: EPH CWG (Aliphatic) GC (S)
19314217

Sample No :
Sample ID : BH249

19,314,217 Depth : 10.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110135-
Date Acquired : 13/02/2019 21:00:43 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

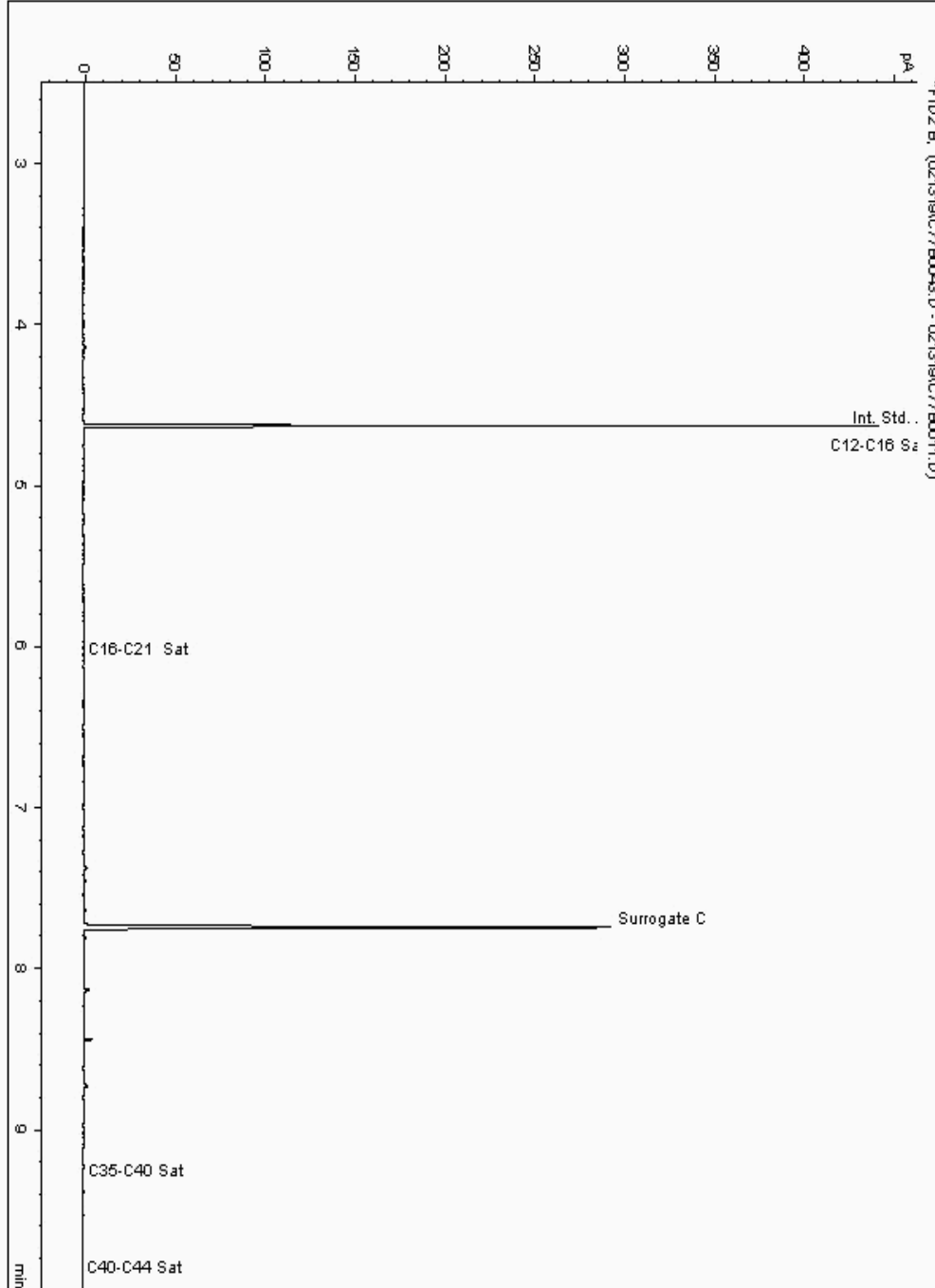
Analysis: EPH CWG (Aliphatic) GC (S)
19314336

Sample No :
Sample ID : BH249

19,314,336Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109823-
Date Acquired : 2/13/2019 8:54:28 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

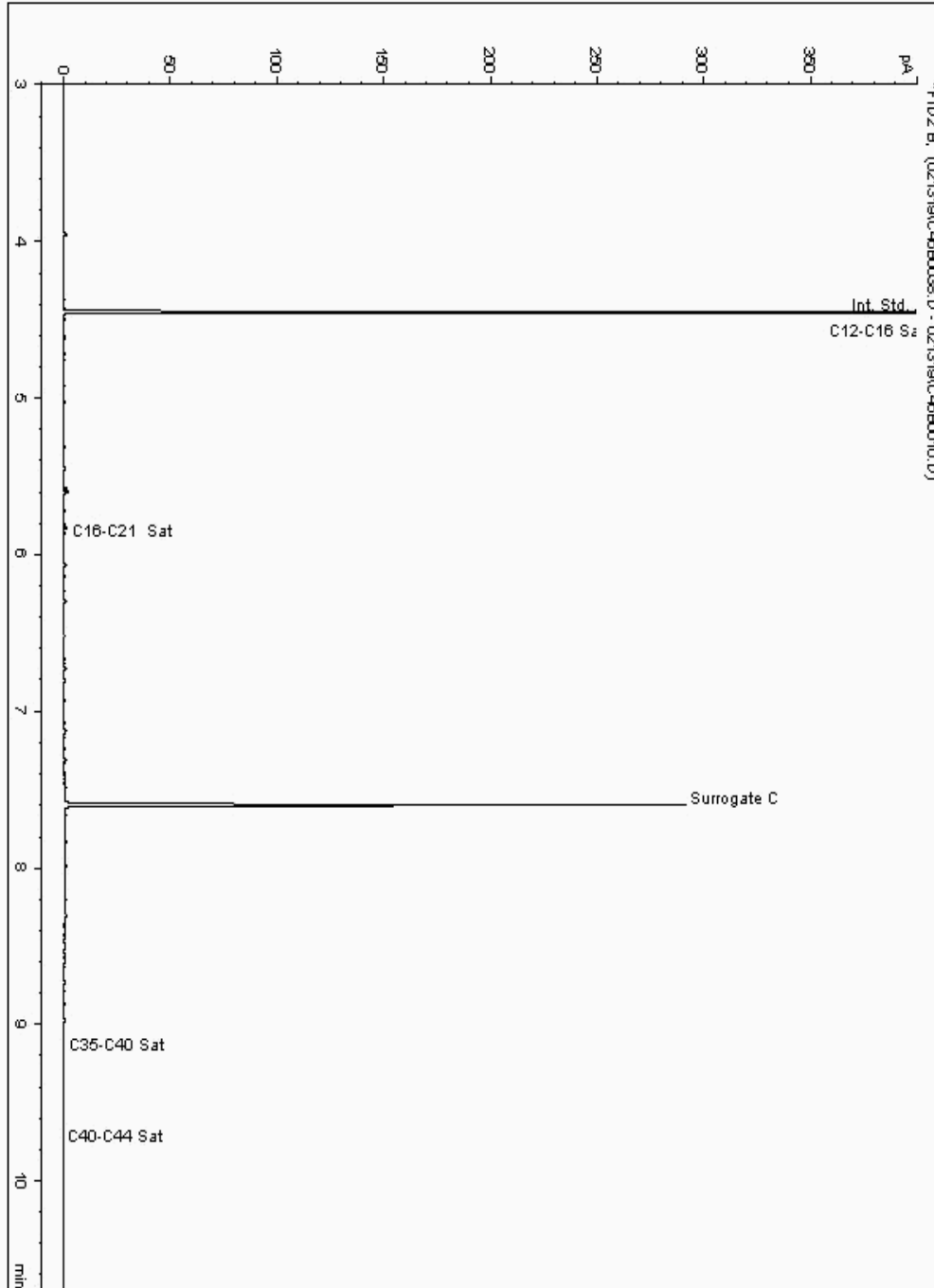
Analysis: EPH CWG (Aliphatic) GC (S)
19314426

Sample No :
Sample ID : BH249

19,314,426 Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109688-
Date Acquired : 13/02/2019 21:38:03 PM
Units : ppb
Dilution: BH249[0.00 - 0.50] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

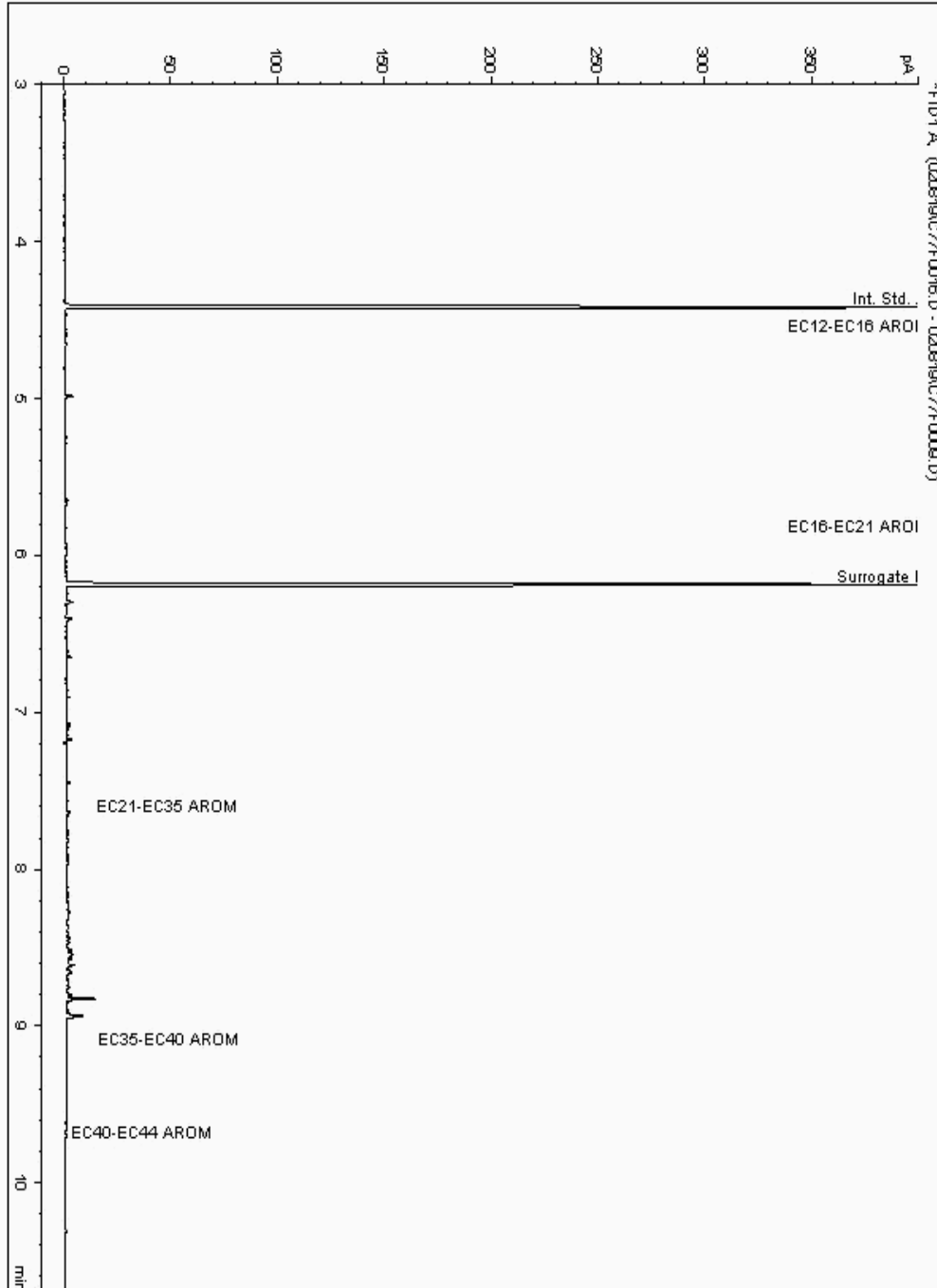
Analysis: EPH CWG (Aromatic) GC (S)
19260802

Sample No :
Sample ID : BH247

19,260,802 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090193-
Date Acquired : 08/02/2019 18:22:06 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

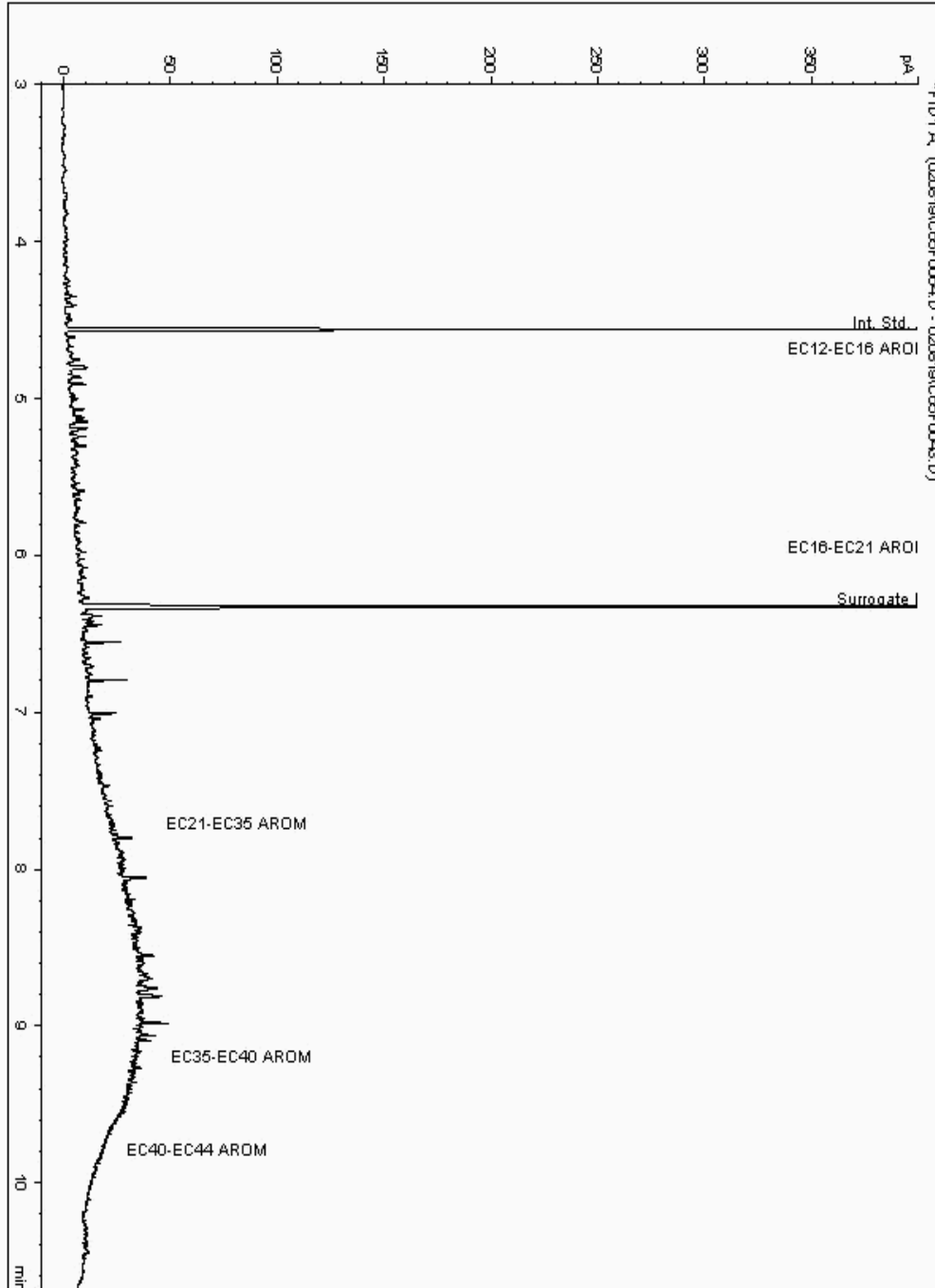
Analysis: EPH CWG (Aromatic) GC (S)
19261002

Sample No :
Sample ID : BH247

19,261,002Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090215-
Date Acquired : 09/02/2019 02:27:55 PM
Units : ppb
Dilution: BH247[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

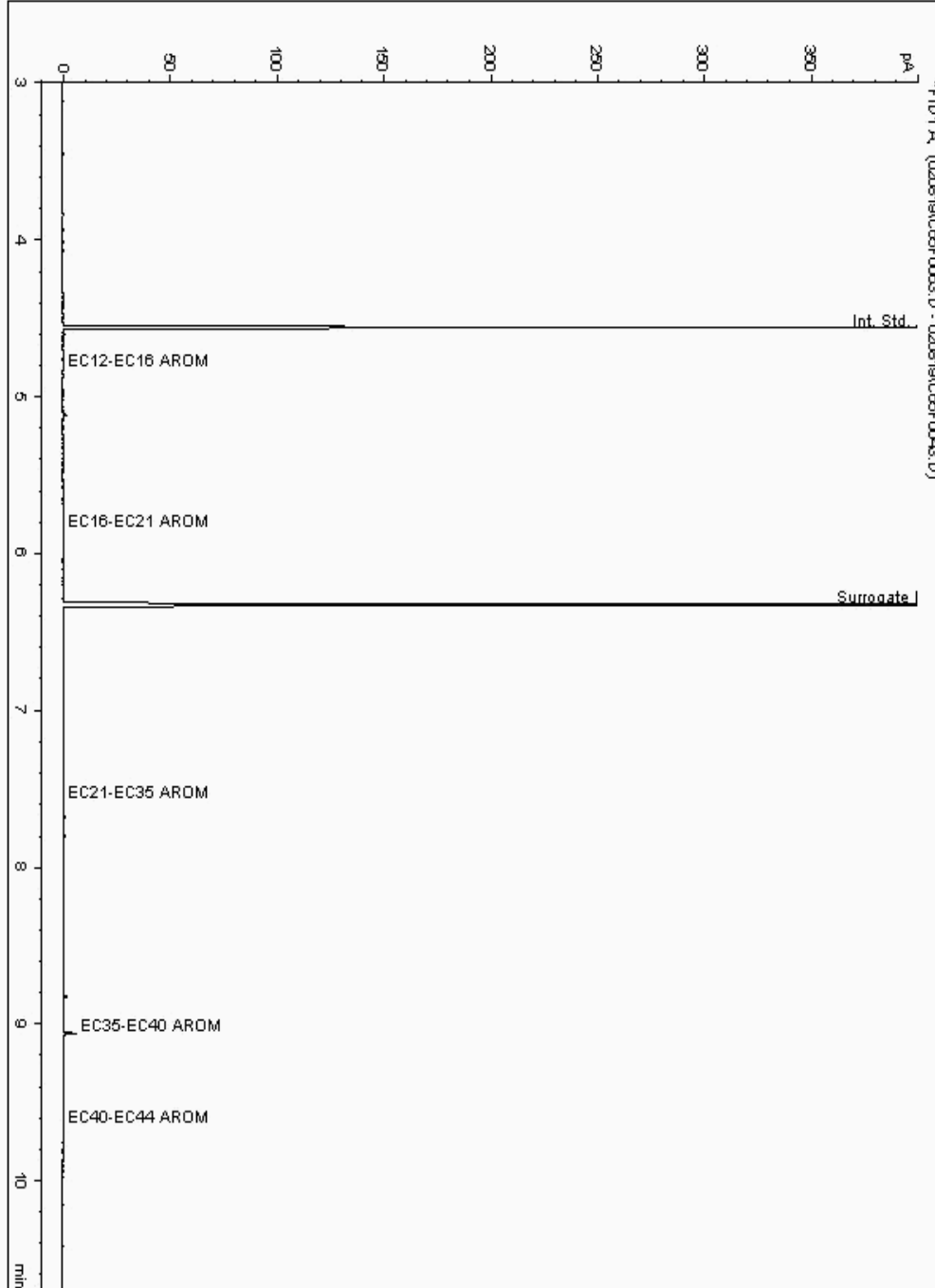
Analysis: EPH CWG (Aromatic) GC (S)
19261043

Sample No :
Sample ID : BH247

19,261,043 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090310-
Date Acquired : 09/02/2019 02:07:26 PM
Units : ppb
Dilution: BH247[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

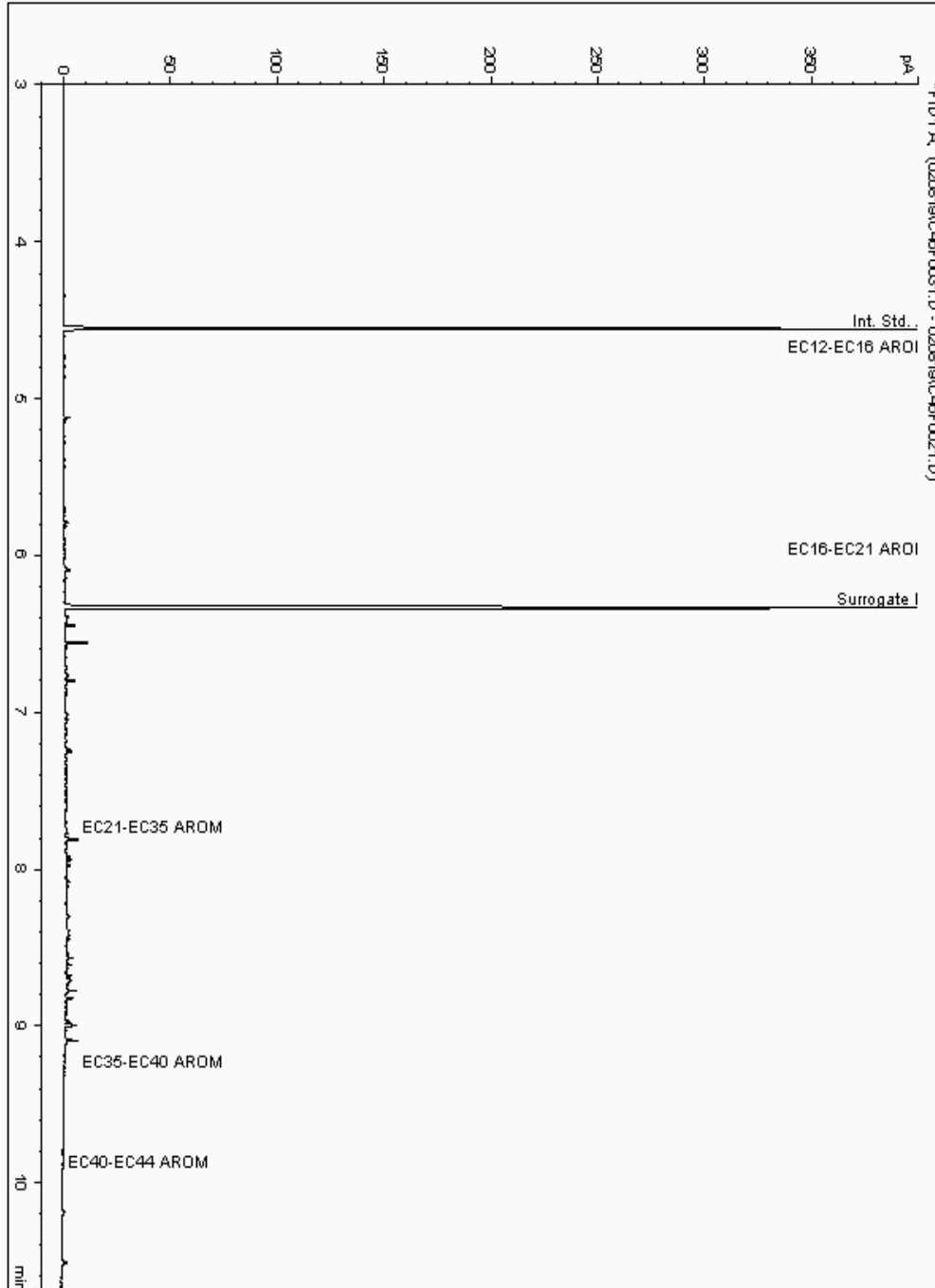
Analysis: EPH CWG (Aromatic) GC (S)
19261518

Sample No :
Sample ID : BH247

19,261,518 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090168-
Date Acquired : 08/02/2019 17:44:40 PM
Units : ppb
Dilution: BH247[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

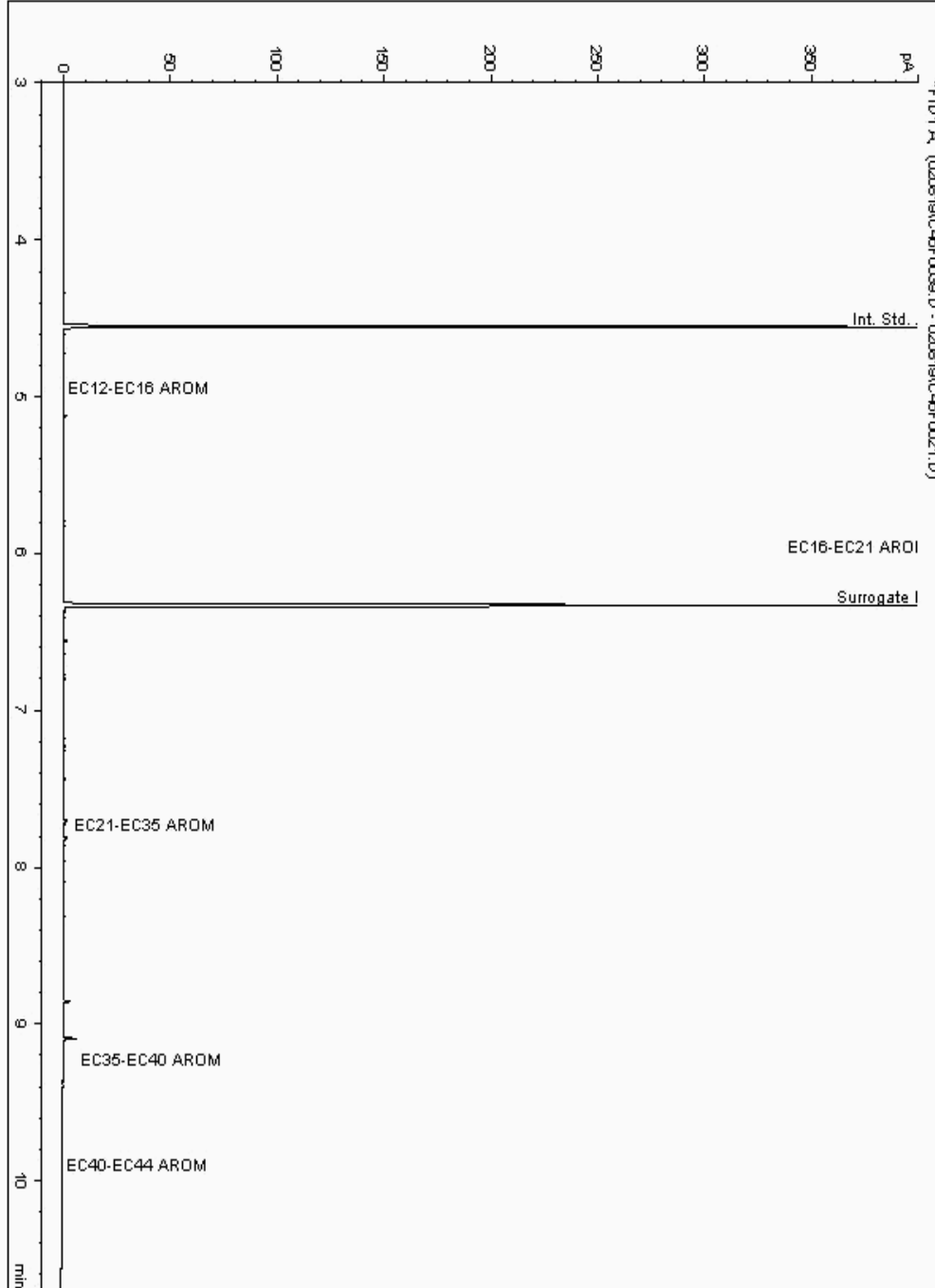
Analysis: EPH CWG (Aromatic) GC (S)
19261583

Sample No :
Sample ID : BH247

19,261,583 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090383-
Date Acquired : 08/02/2019 20:11:03 PM
Units : ppb
Dilution: BH247[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

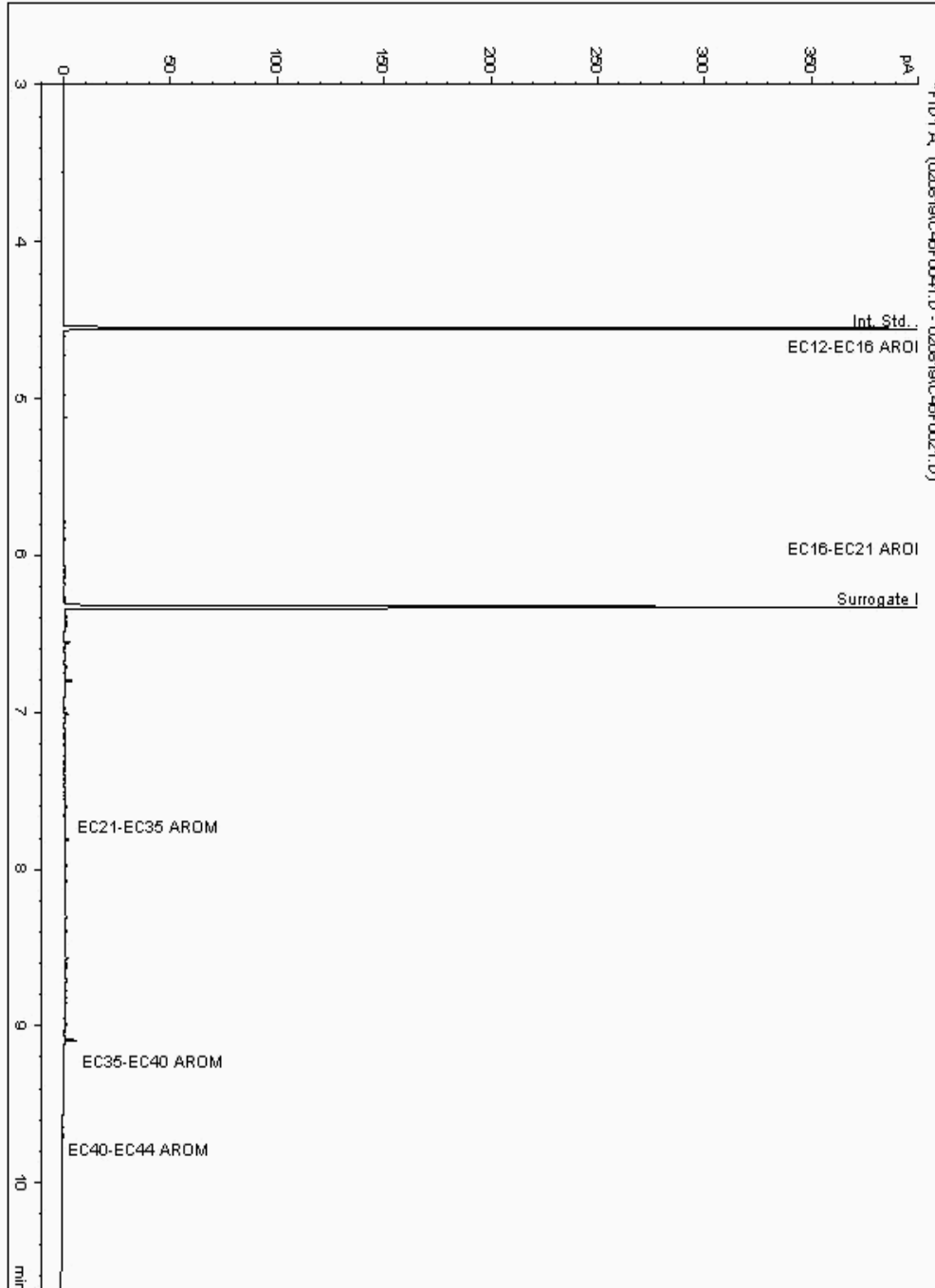
Analysis: EPH CWG (Aromatic) GC (S)
19261702

Sample No :
Sample ID : BH247

19,261,702Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090286-
Date Acquired : 08/02/2019 20:51:42 PM
Units : ppb
Dilution: BH247[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

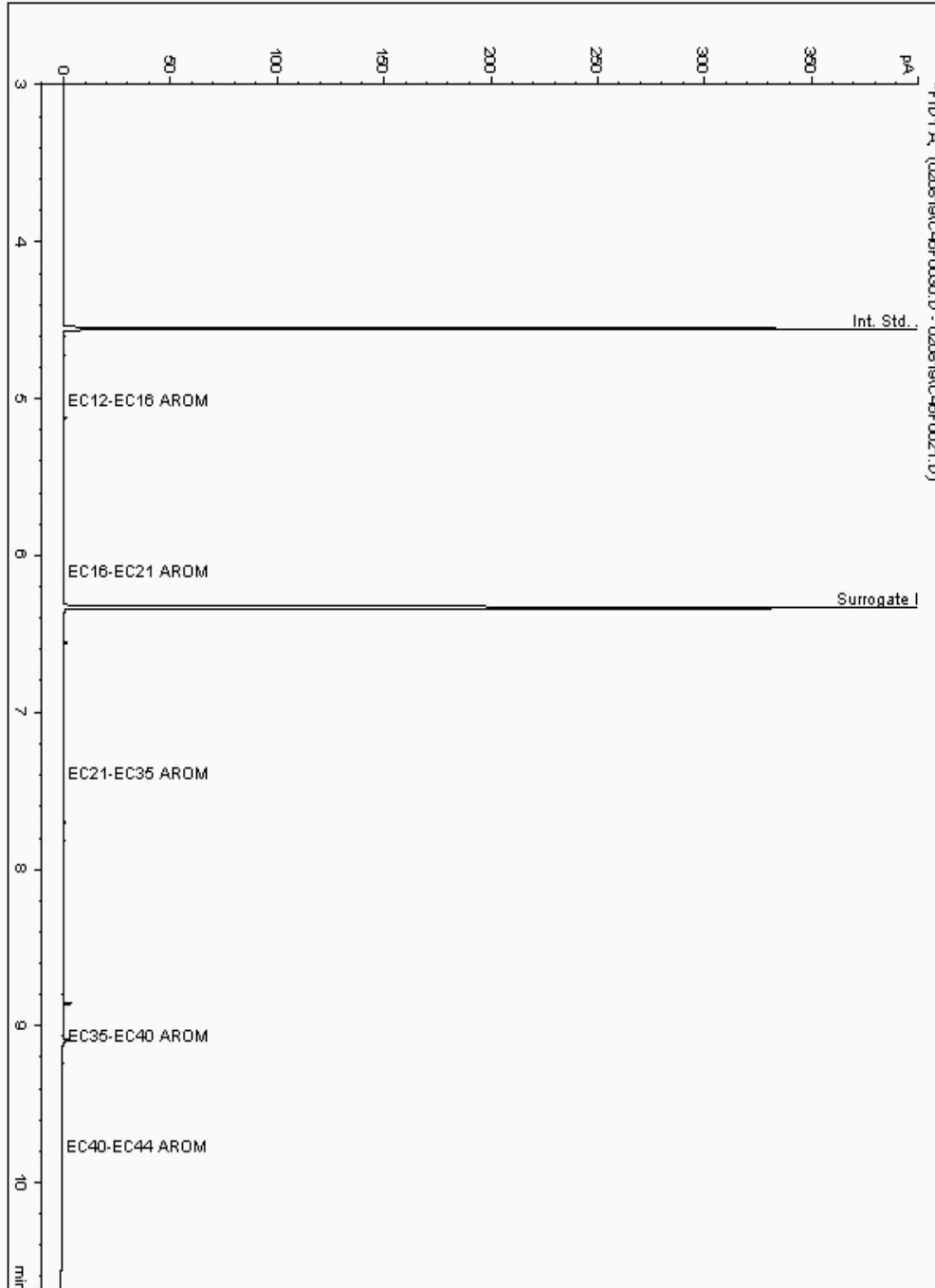
Analysis: EPH CWG (Aromatic) GC (S)
19261875

Sample No :
Sample ID : BH247

19,261,875 Depth : 9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090335-
Date Acquired : 08/02/2019 17:24:22 PM
Units : ppb
Dilution: BH247[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

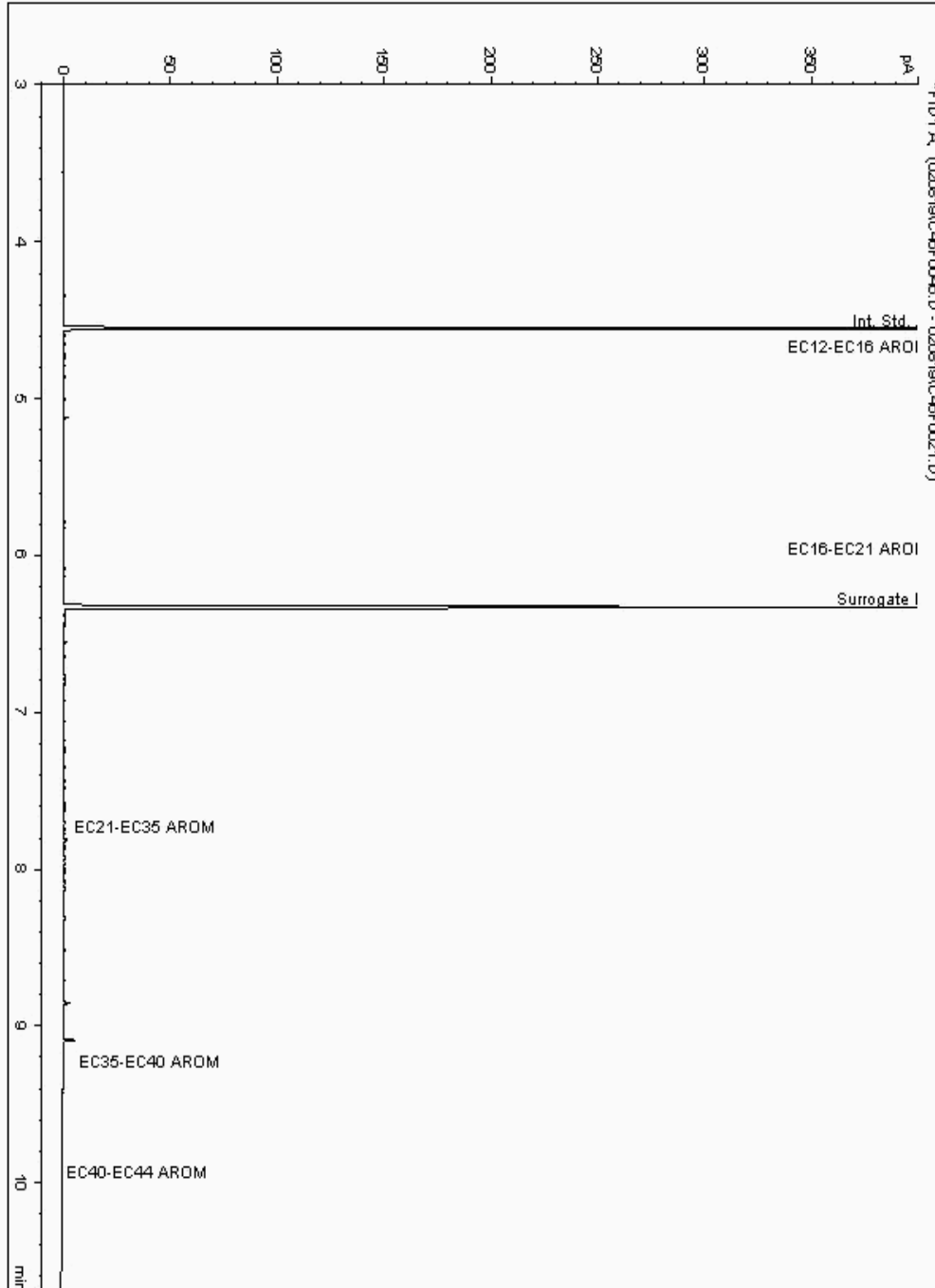
Analysis: EPH CWG (Aromatic) GC (S)
19261999

Sample No :
Sample ID : BH247

19,261,999Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090413-
Date Acquired : 08/02/2019 22:17:04 PM
Units : ppb
Dilution: BH247[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

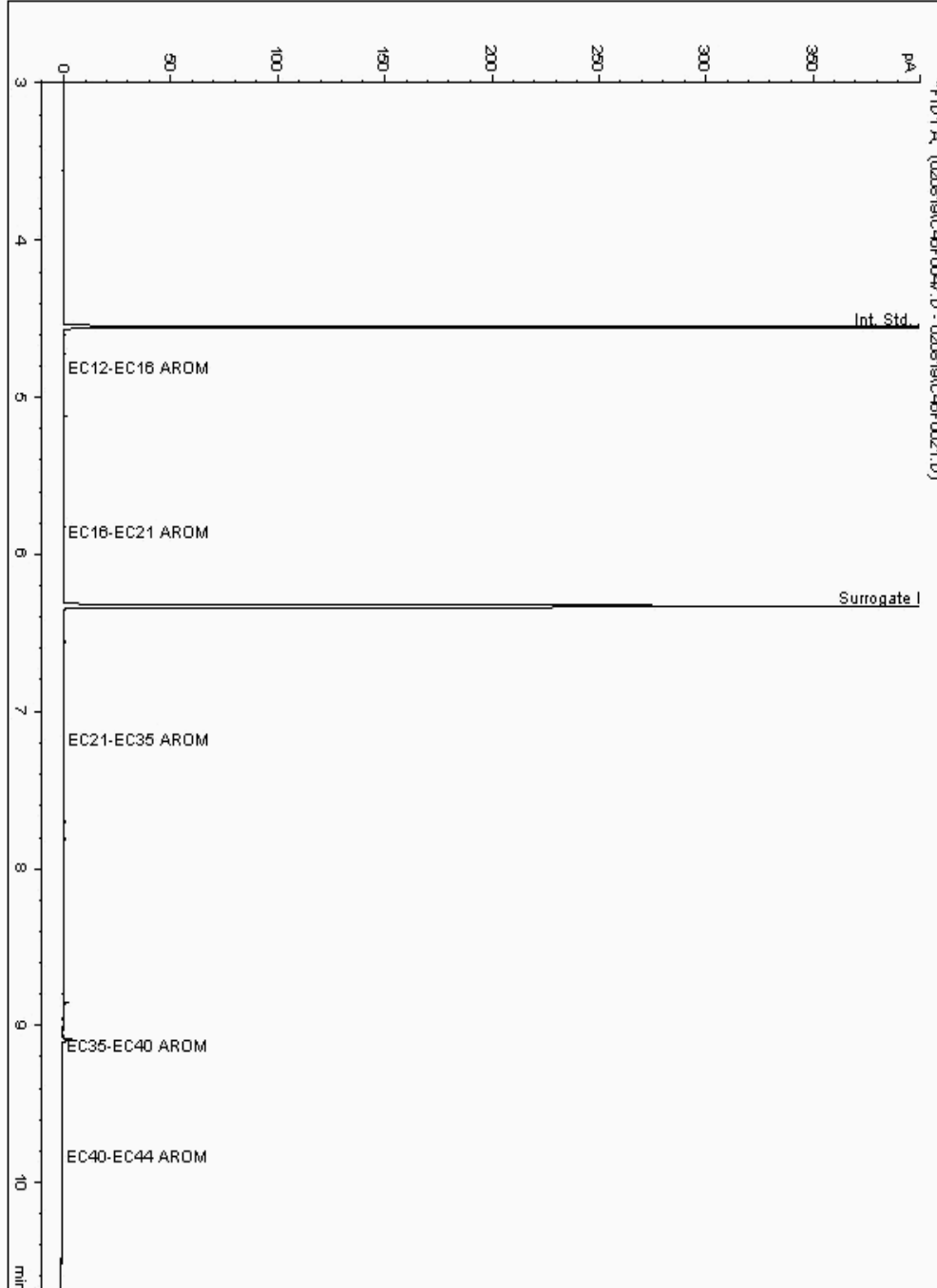
Analysis: EPH CWG (Aromatic) GC (S)
19262201

Sample No :
Sample ID : BH247

19,262,201 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090358-
Date Acquired : 08/02/2019 22:37:20 PM
Units : ppb
Dilution: BH247[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

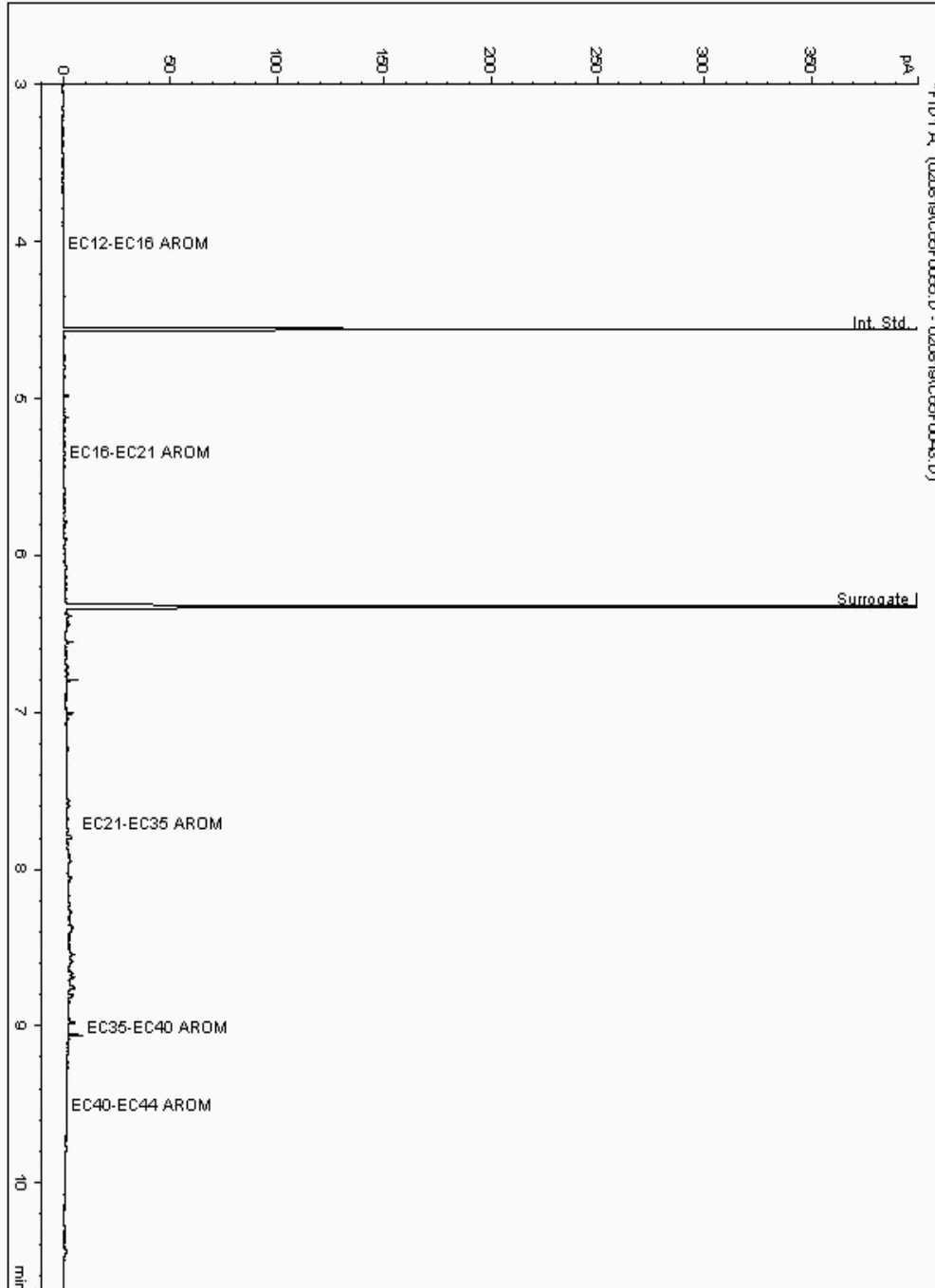
Analysis: EPH CWG (Aromatic) GC (S)
19262278

Sample No :
Sample ID : BH247

19,262,278 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090260-
Date Acquired : 08/02/2019 23:32:03 PM
Units : ppb
Dilution: BH247[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

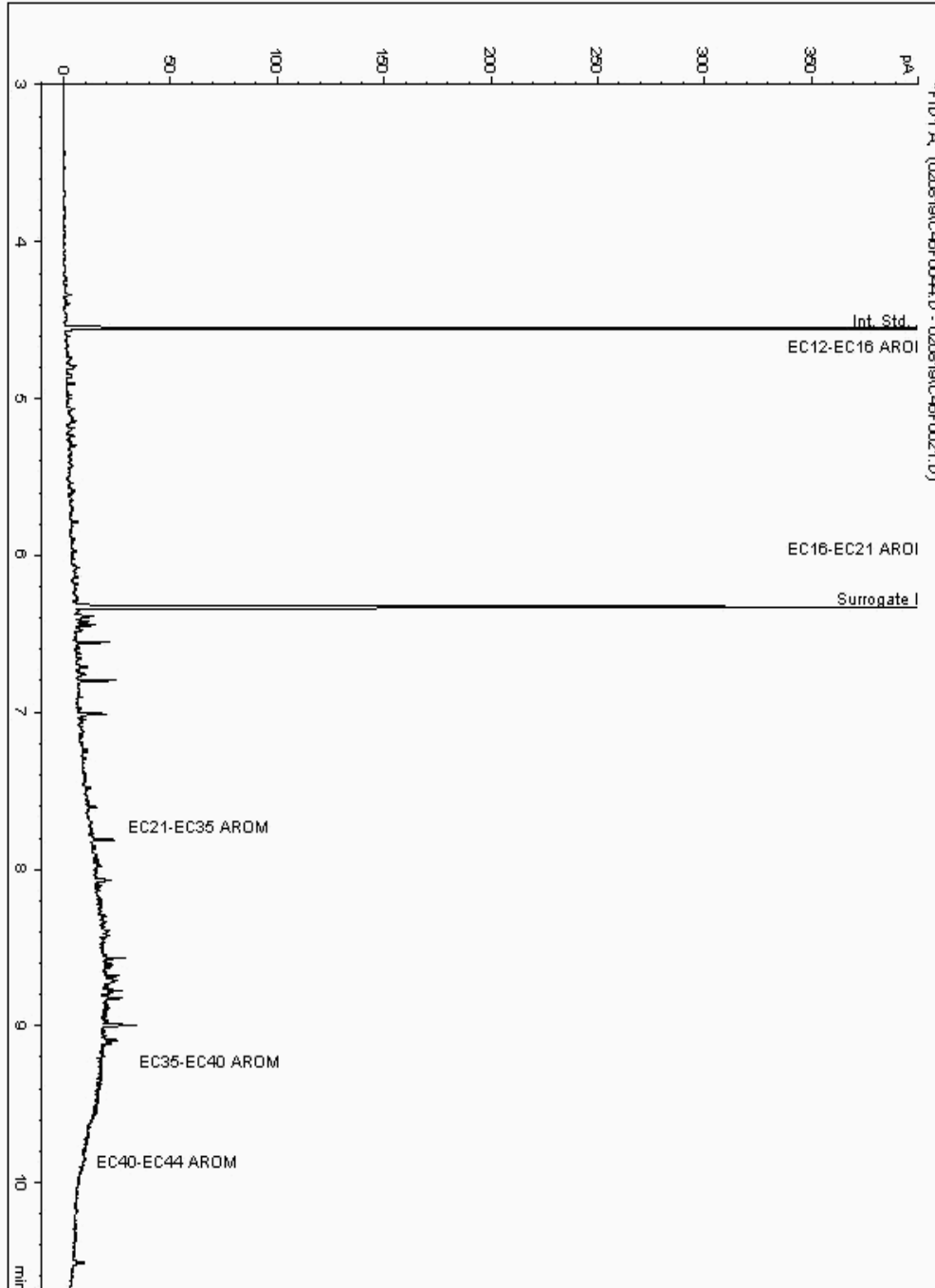
Analysis: EPH CWG (Aromatic) GC (S)
19262420

Sample No :
Sample ID : BH247

19,262,420Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090238-
Date Acquired : 08/02/2019 21:44:34 PM
Units : ppb
Dilution: BH247[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

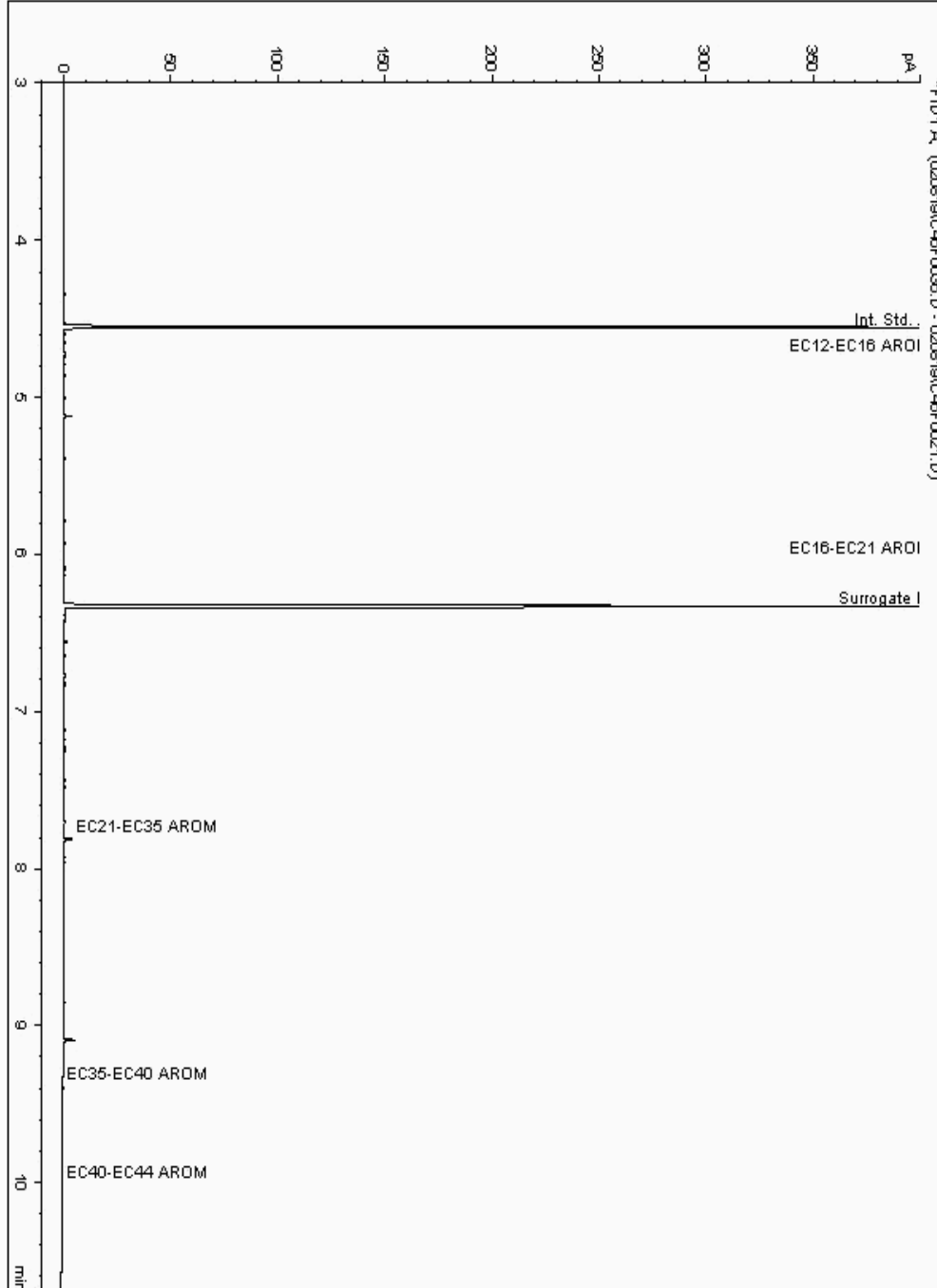
Analysis: EPH CWG (Aromatic) GC (S)
19262742

Sample No :
Sample ID : BH248

19,262,742Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091025-
Date Acquired : 08/02/2019 19:10:07 PM
Units : ppb
Dilution: BH248[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

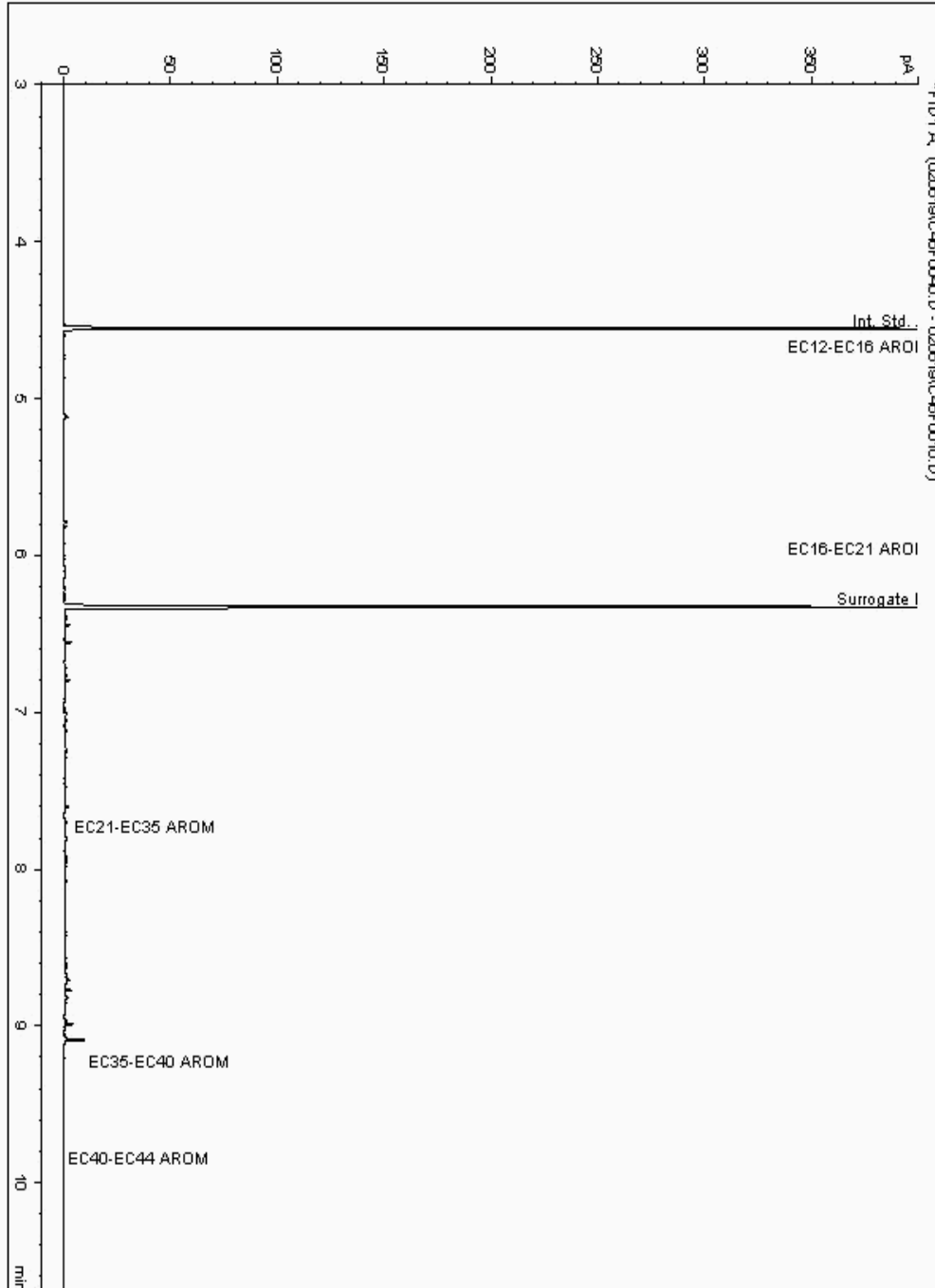
Analysis: EPH CWG (Aromatic) GC (S)
19270439

Sample No :
Sample ID : BH248

19,270,439Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090525-
Date Acquired : 07/02/2019 00:06:18 PM
Units : ppb
Dilution: BH248[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

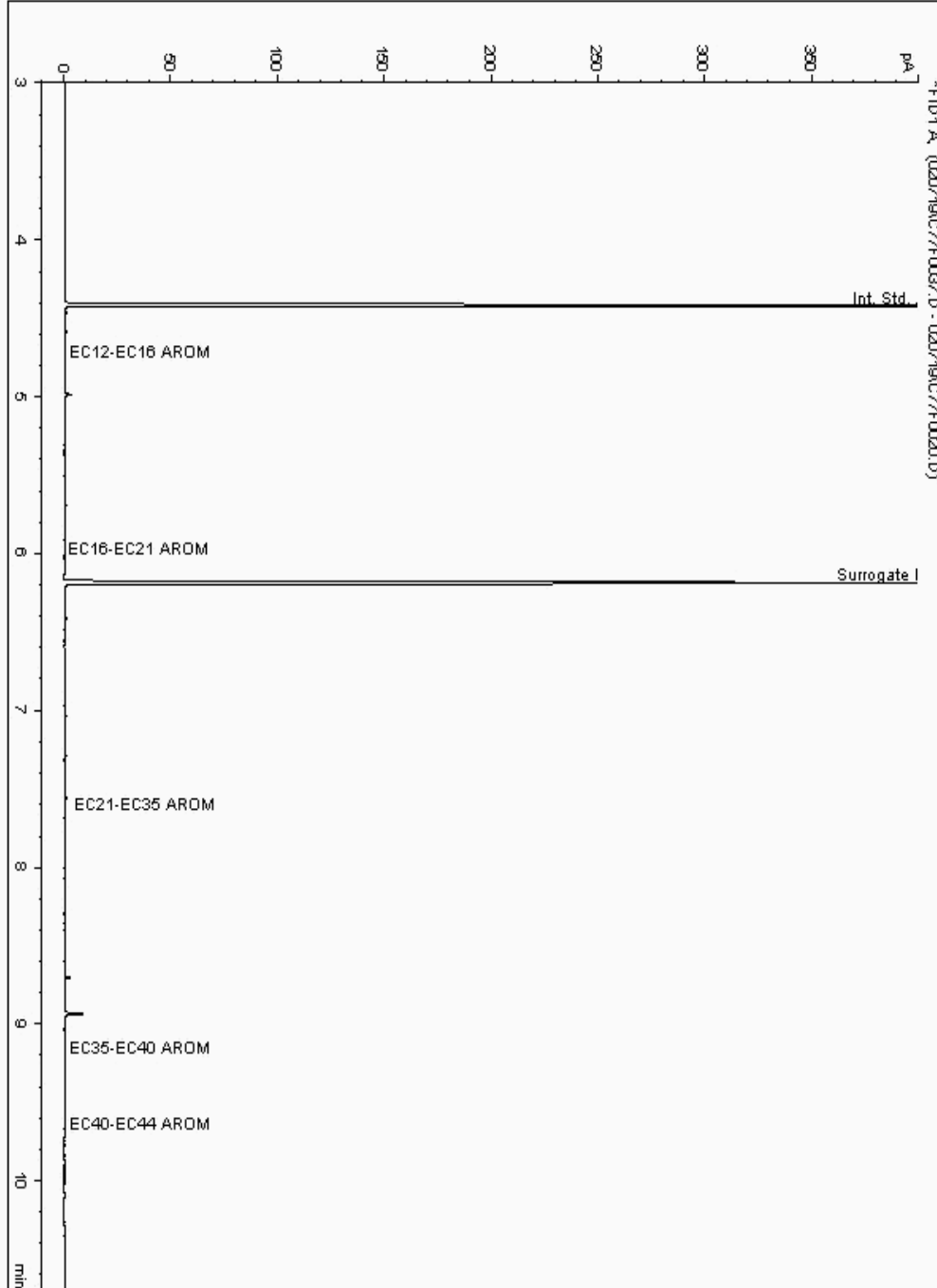
Analysis: EPH CWG (Aromatic) GC (S)
19270482

Sample No :
Sample ID : BH248

19,270,482 Depth : 10.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090767-
Date Acquired : 07/02/2019 23:35:29 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

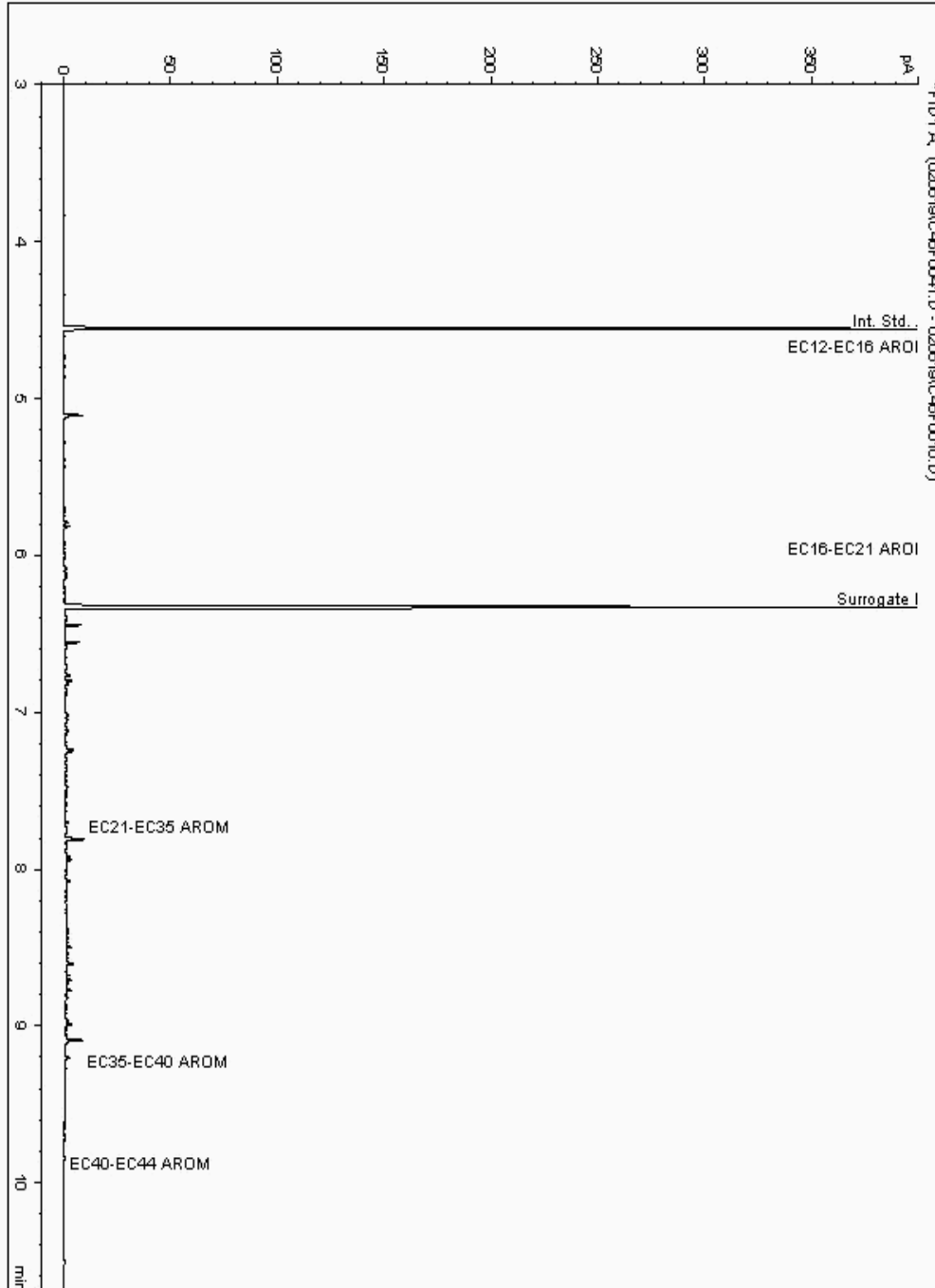
Analysis: EPH CWG (Aromatic) GC (S)
19270514

Sample No :
Sample ID : BH248

19,270,514 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090499-
Date Acquired : 07/02/2019 00:26:36 PM
Units : ppb
Dilution: BH248[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

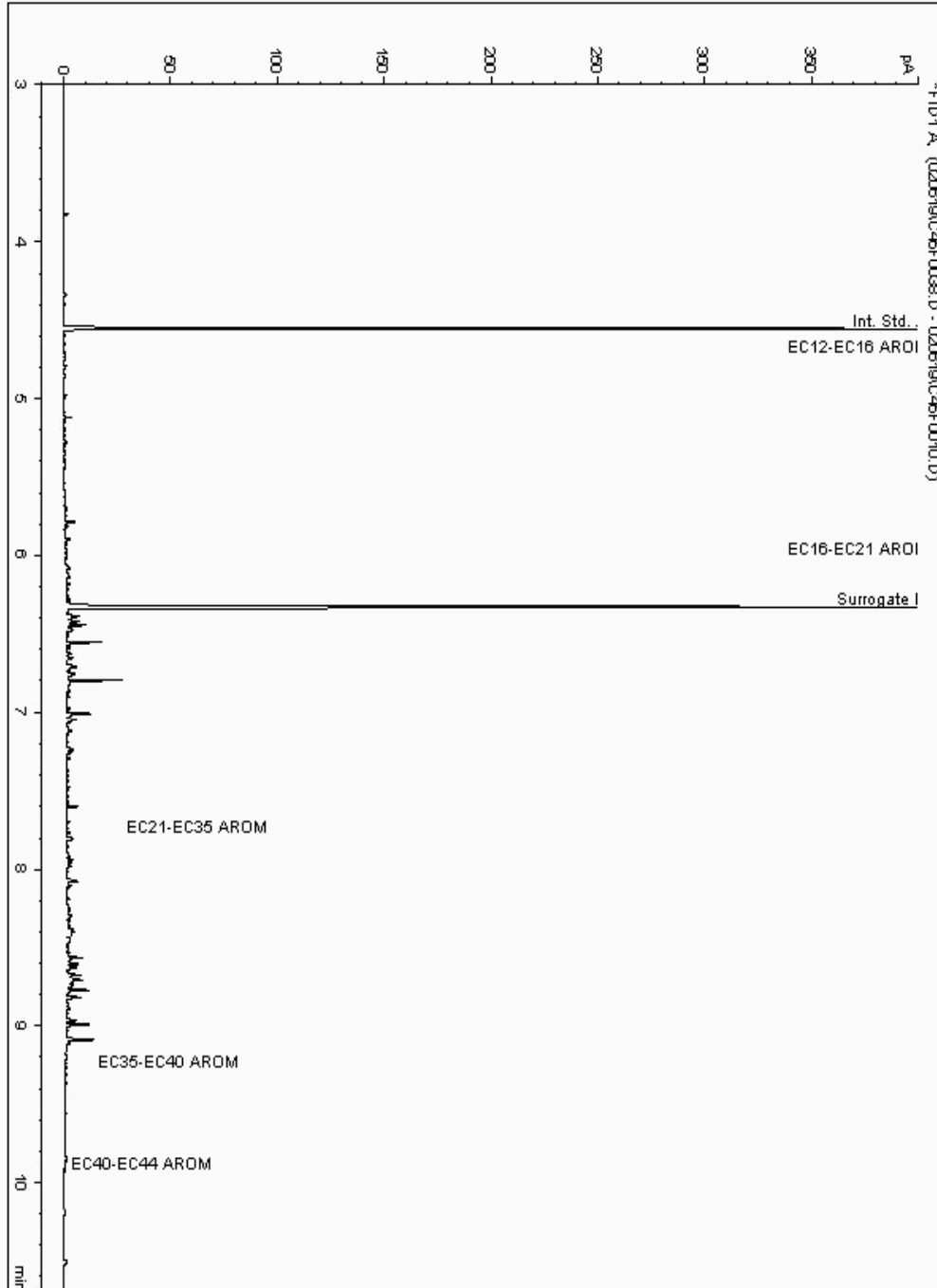
Analysis: EPH CWG (Aromatic) GC (S)
19270637

Sample No :
Sample ID : BH248

19,270,637Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090555-
Date Acquired : 06/02/2019 23:33:47 PM
Units : ppb
Dilution: BH248[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

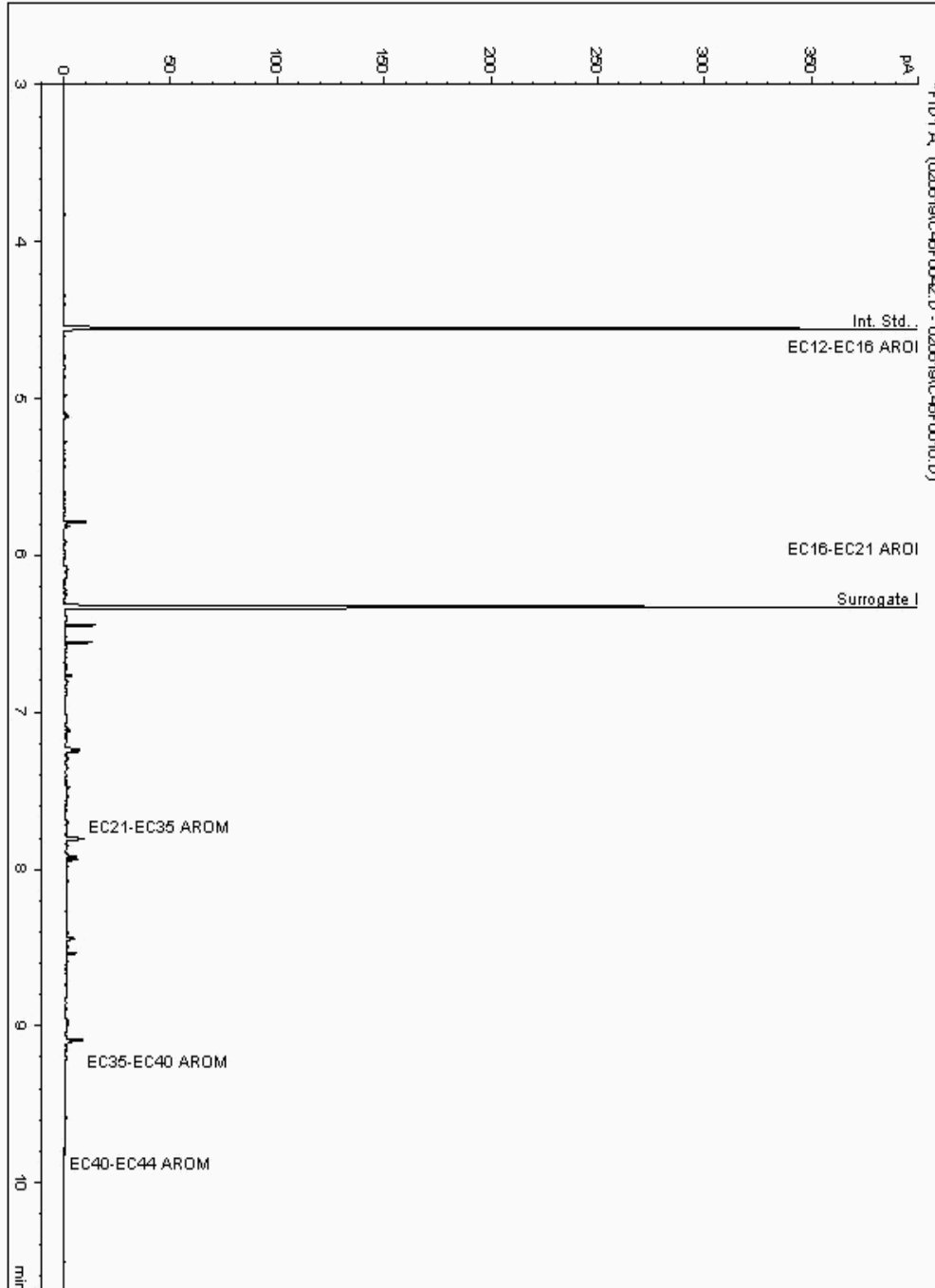
Analysis: EPH CWG (Aromatic) GC (S)
19270679

Sample No :
Sample ID : BH248

19,270,679 Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090440-
Date Acquired : 07/02/2019 00:47:06 PM
Units : ppb
Dilution: BH248[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

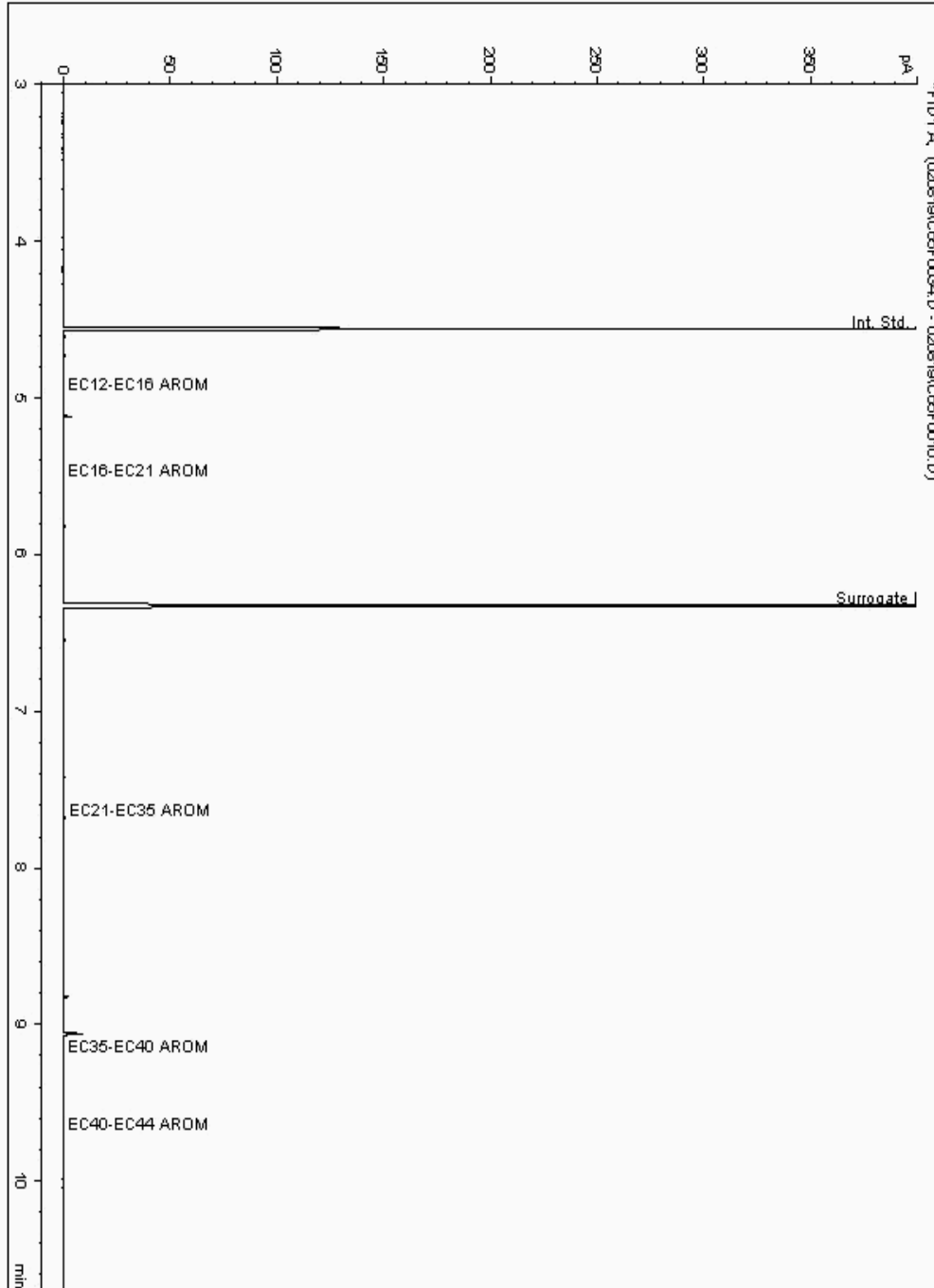
Analysis: EPH CWG (Aromatic) GC (S)
19270760

Sample No :
Sample ID : BH248

19,270,760 Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090817-
Date Acquired : 08/02/2019 16:49:34 PM
Units : ppb
Dilution: BH248[11.00 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

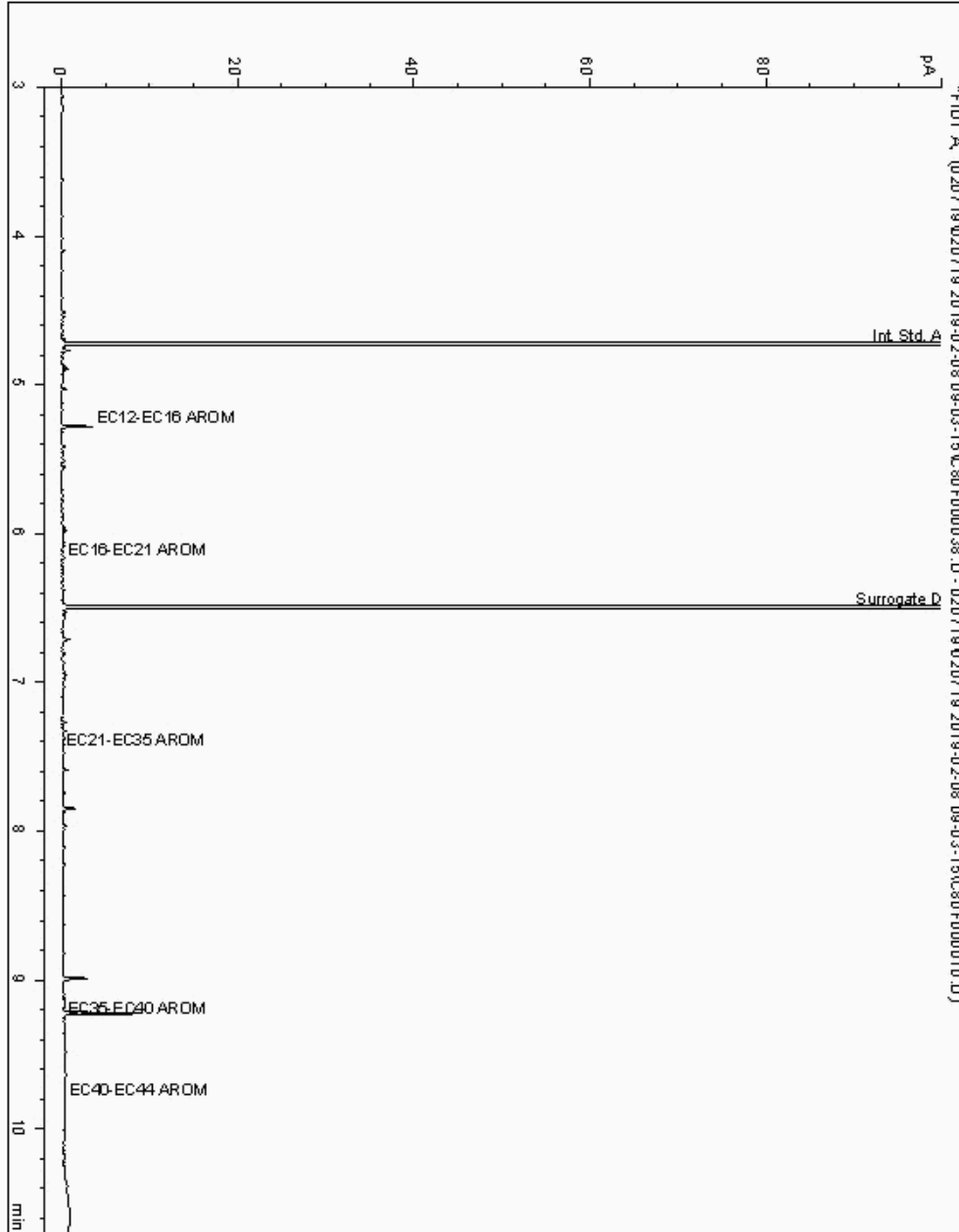
Analysis: EPH CWG (Aromatic) GC (S)
19271458

Sample No :
Sample ID : BH248

19,271,458Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18090887-
Date Acquired : 07/02/19 19:52:35
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

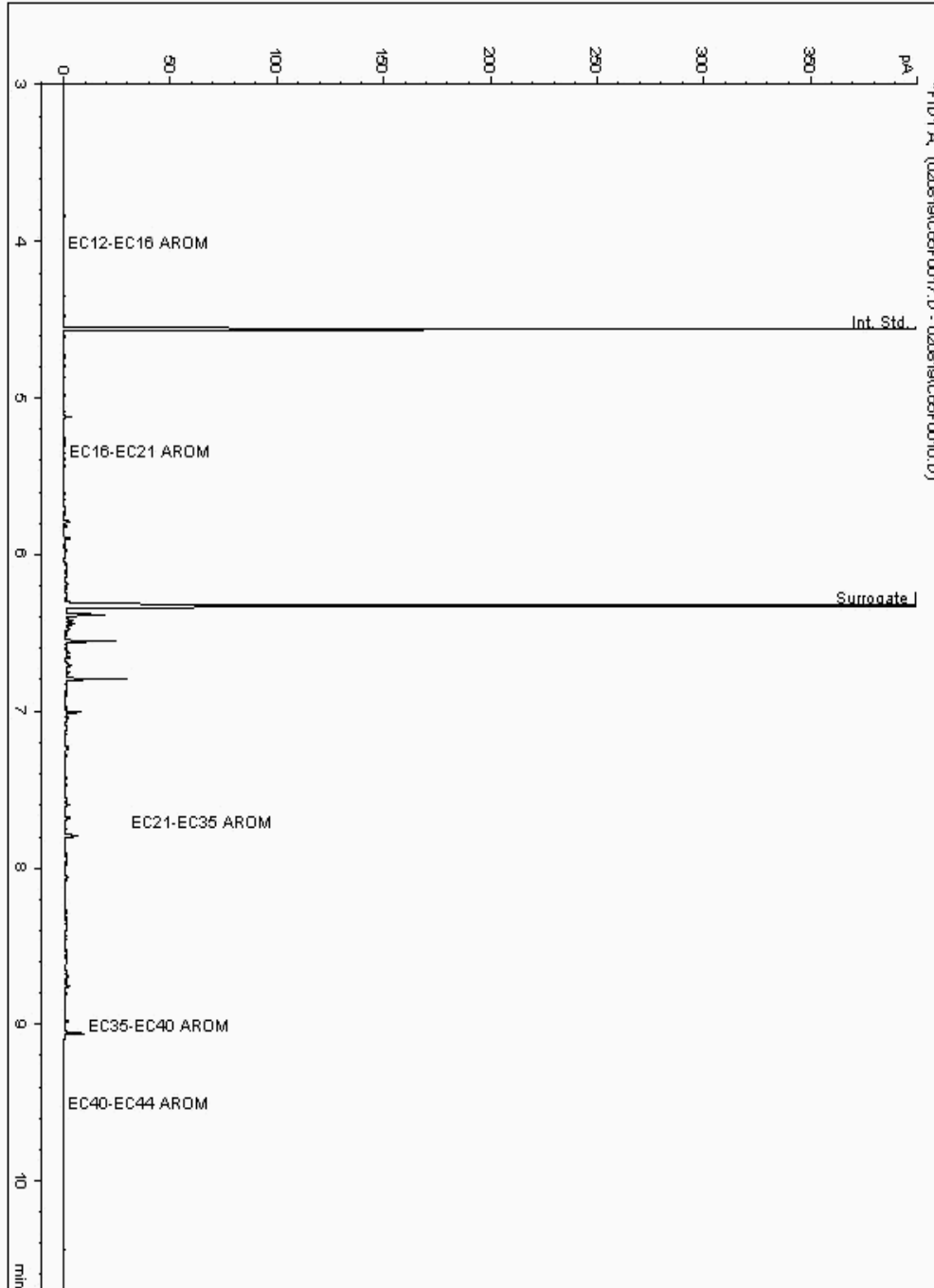
Analysis: EPH CWG (Aromatic) GC (S)
19271544

Sample No :
Sample ID : BH248

19,271,544Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090613-
Date Acquired : 08/02/2019 11:59:07 PM
Units : ppb
Dilution: BH248[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

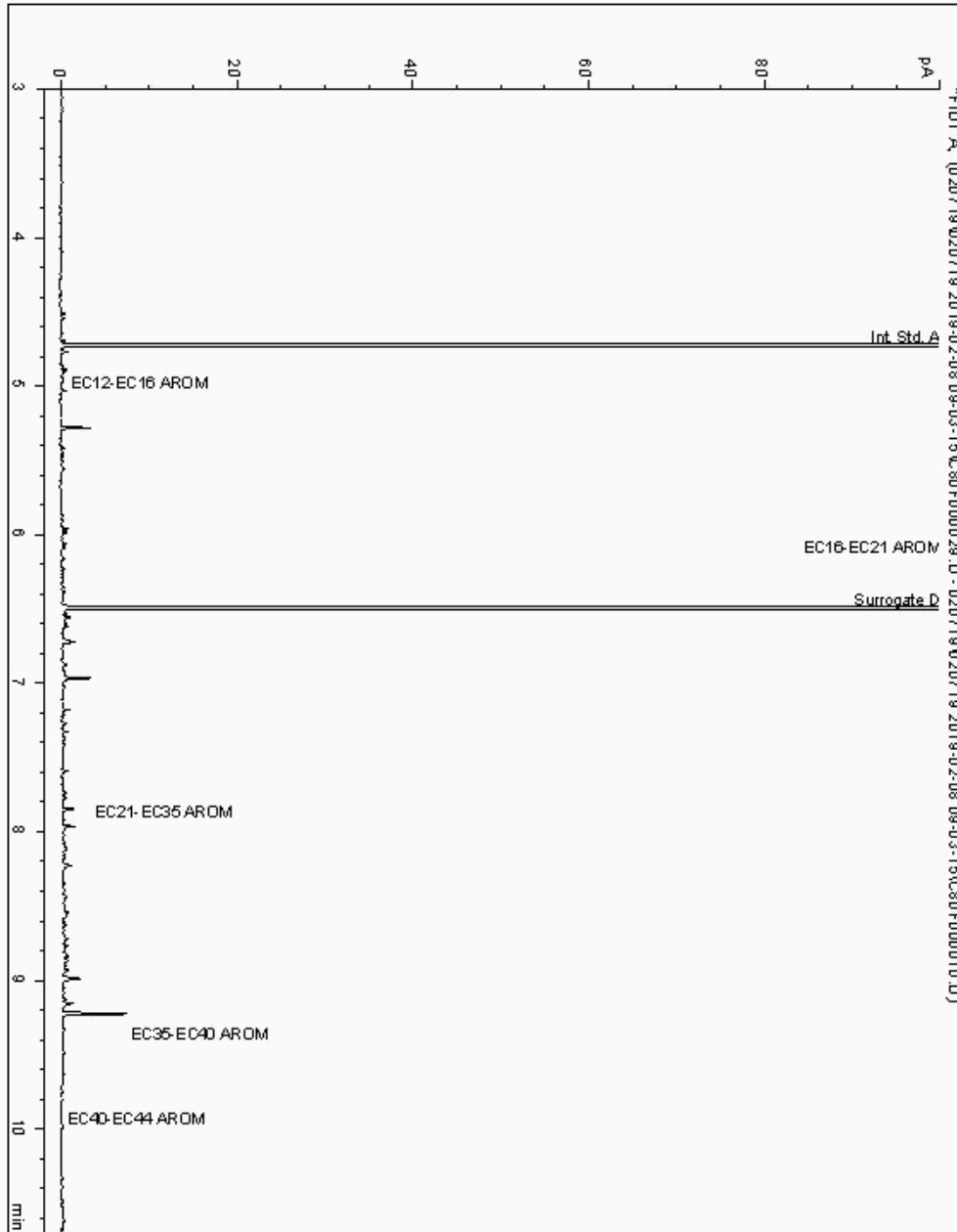
Analysis: EPH CWG (Aromatic) GC (S)
19271646

Sample No :
Sample ID : BH248

19,271,646Depth : 7.00 - 8.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18090719-
Date Acquired : 07/02/19 17:35:25
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

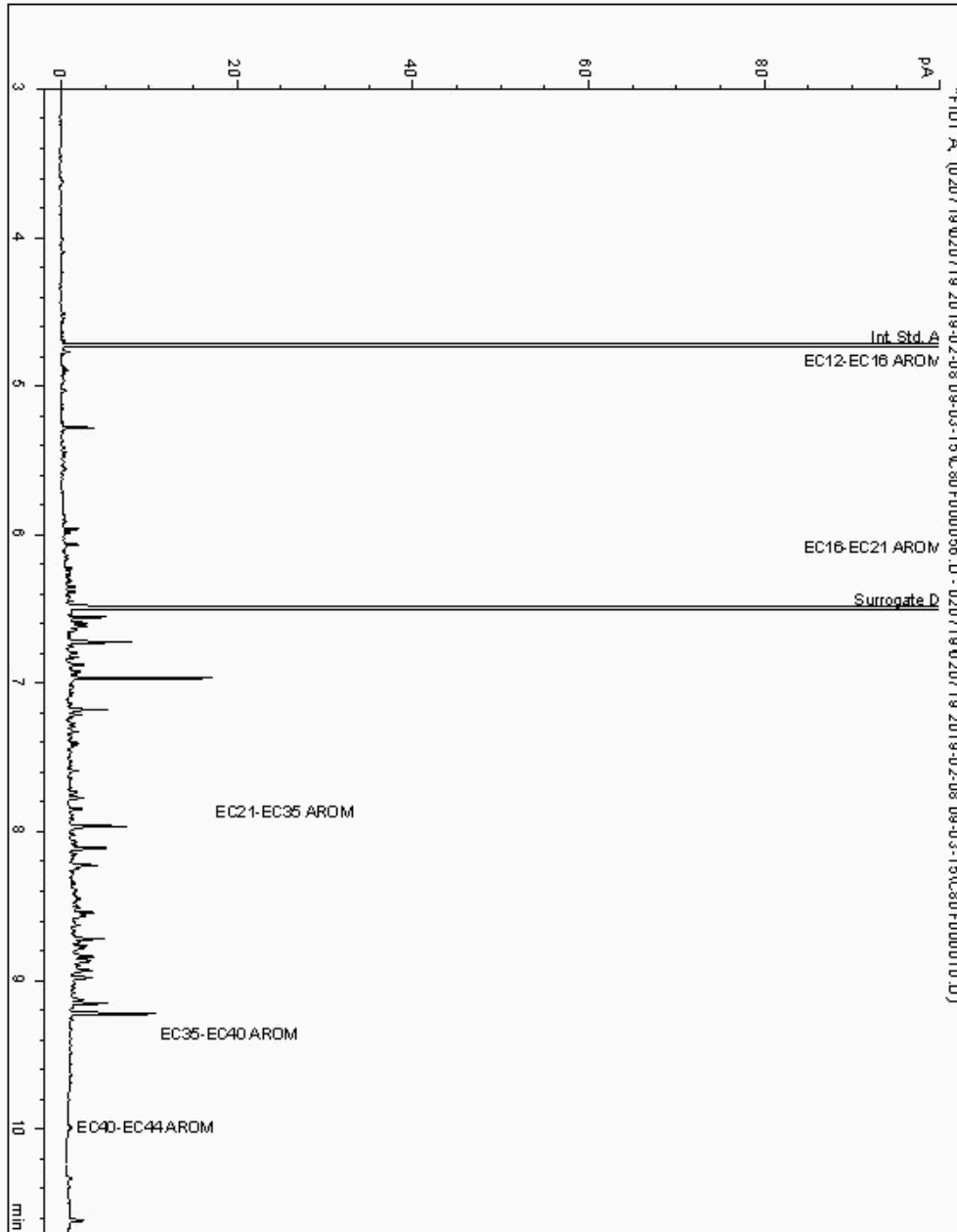
Analysis: EPH CWG (Aromatic) GC (S)
19271706

Sample No :
Sample ID : BH248

19,271,706Depth :5.00 - 6.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18090668-
Date Acquired : 08/02/19 00:15:20
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

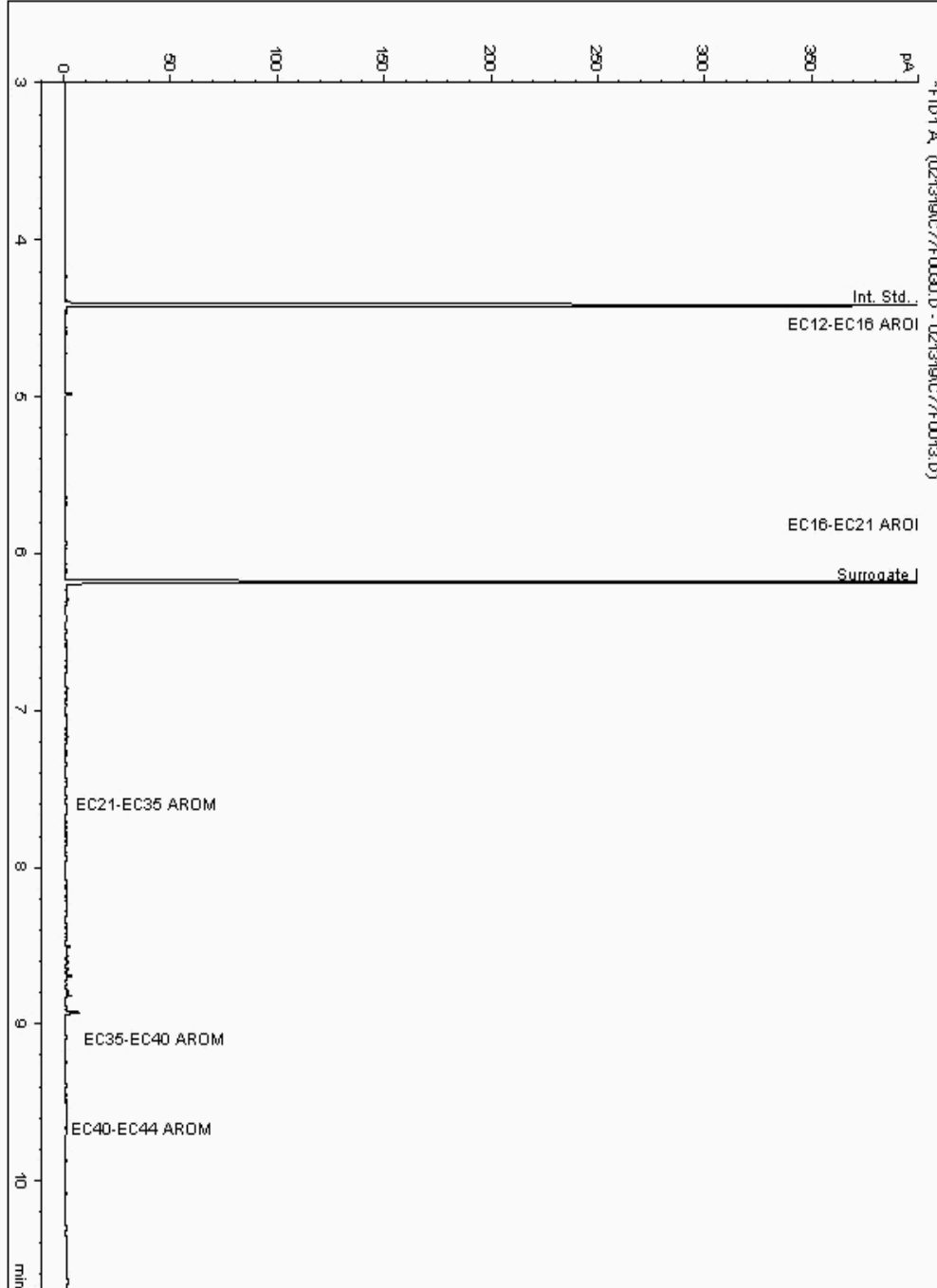
Analysis: EPH CWG (Aromatic) GC (S)
19313384

Sample No :
Sample ID : BH249

19,313,384 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109931-
Date Acquired : 13/02/2019 18:45:23 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

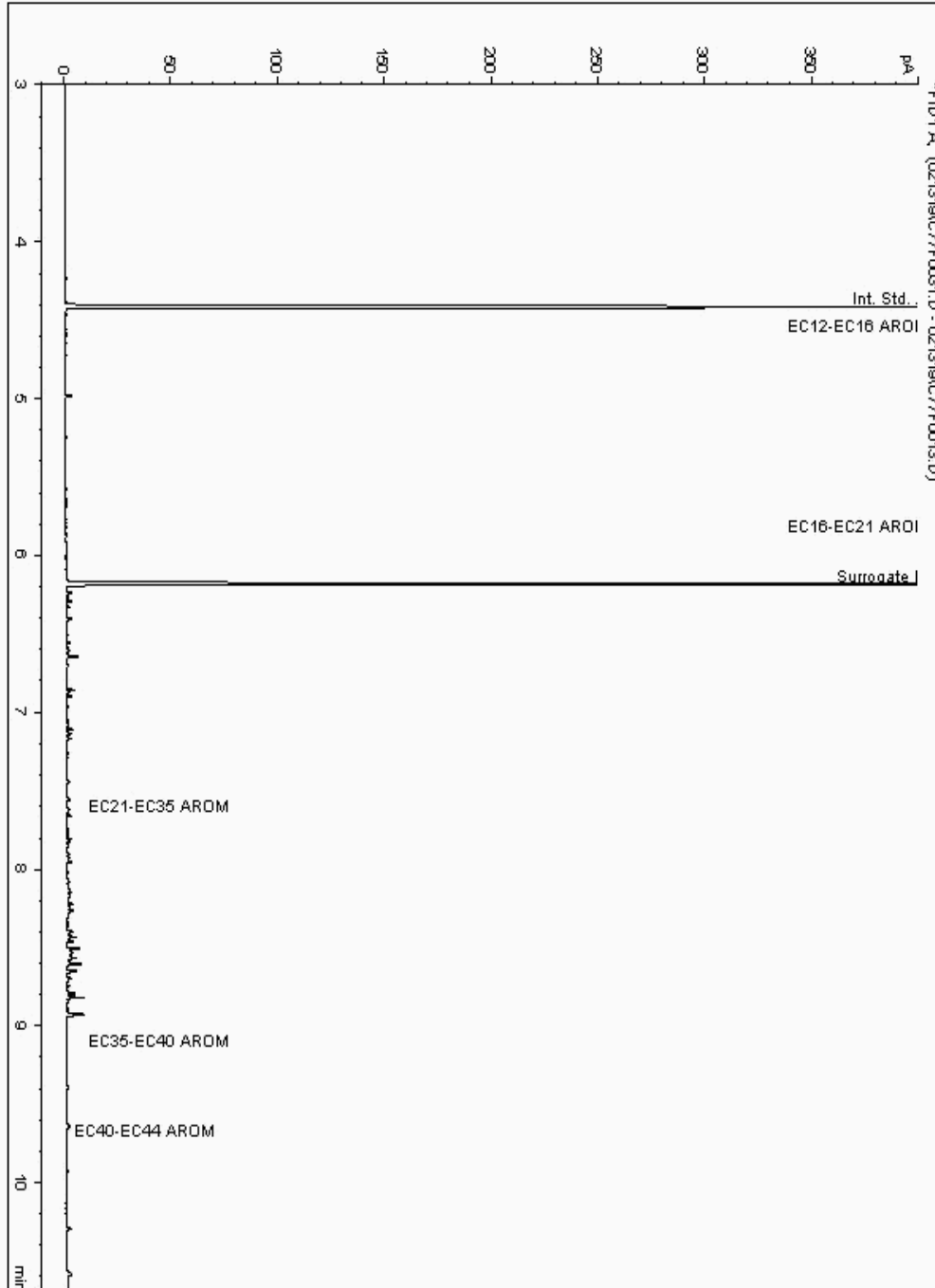
Analysis: EPH CWG (Aromatic) GC (S)
19313462

Sample No :
Sample ID : BH249

19,313,462 Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109880-
Date Acquired : 13/02/2019 19:05:29 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

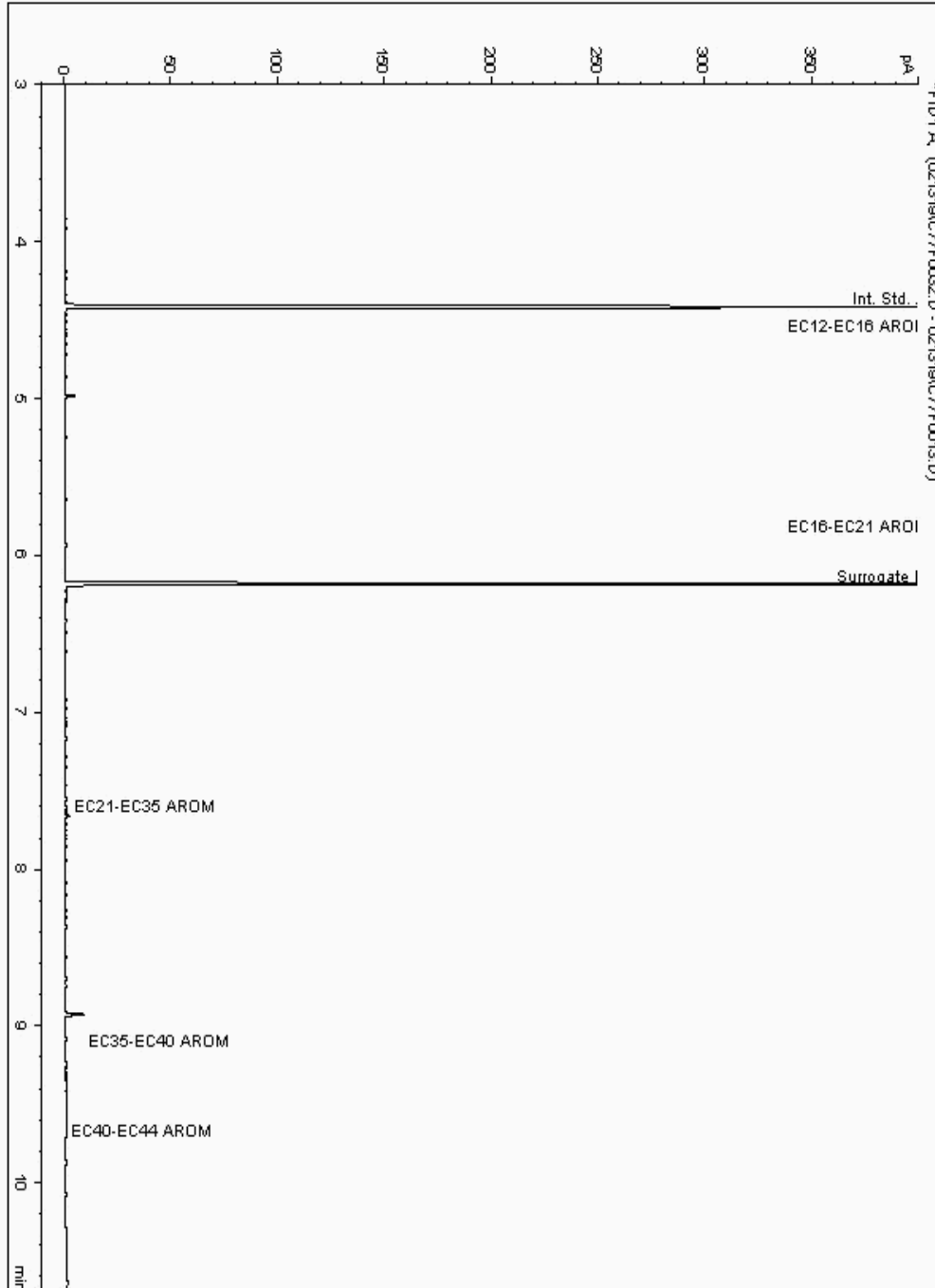
Analysis: EPH CWG (Aromatic) GC (S)
19313614

Sample No :
Sample ID : BH249

19,313,614 Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109732-
Date Acquired : 13/02/2019 19:25:26 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

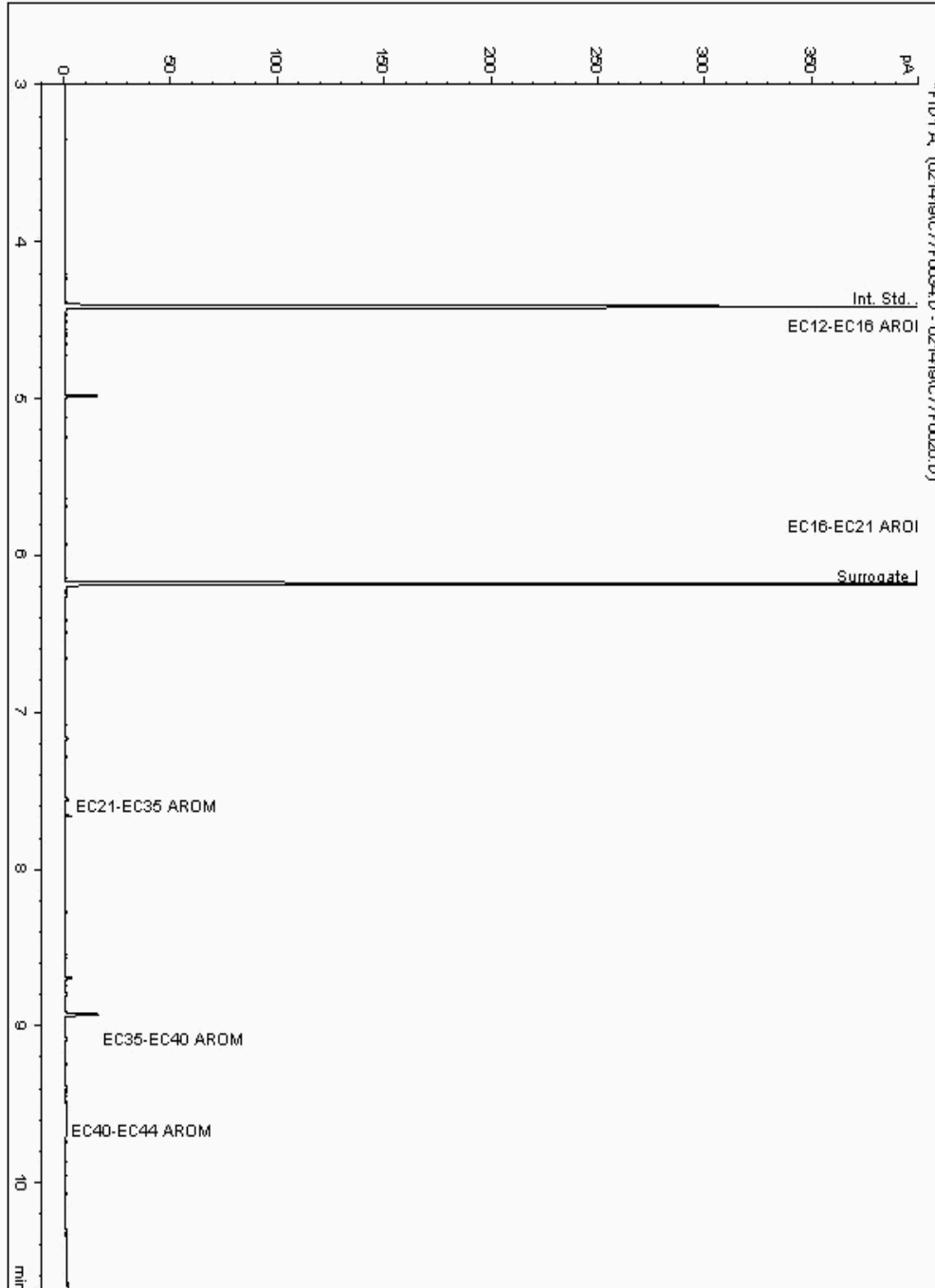
Analysis: EPH CWG (Aromatic) GC (S)
19313681

Sample No :
Sample ID : BH249

19,313,681 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110193-
Date Acquired : 14/02/2019 22:07:21 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

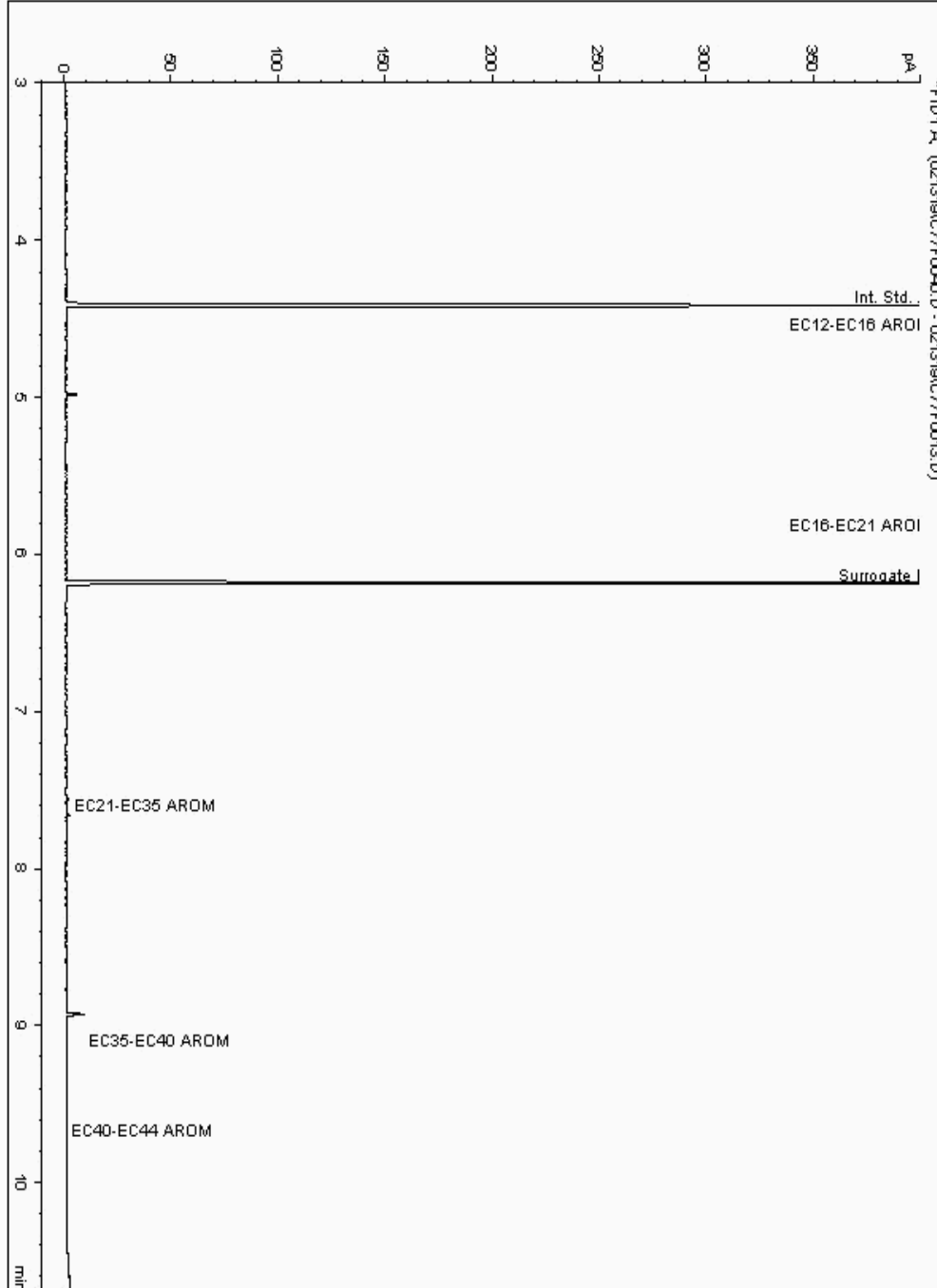
Analysis: EPH CWG (Aromatic) GC (S)
19313743

Sample No :
Sample ID : BH249

19,313,743 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110260-
Date Acquired : 13/02/2019 21:40:50 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

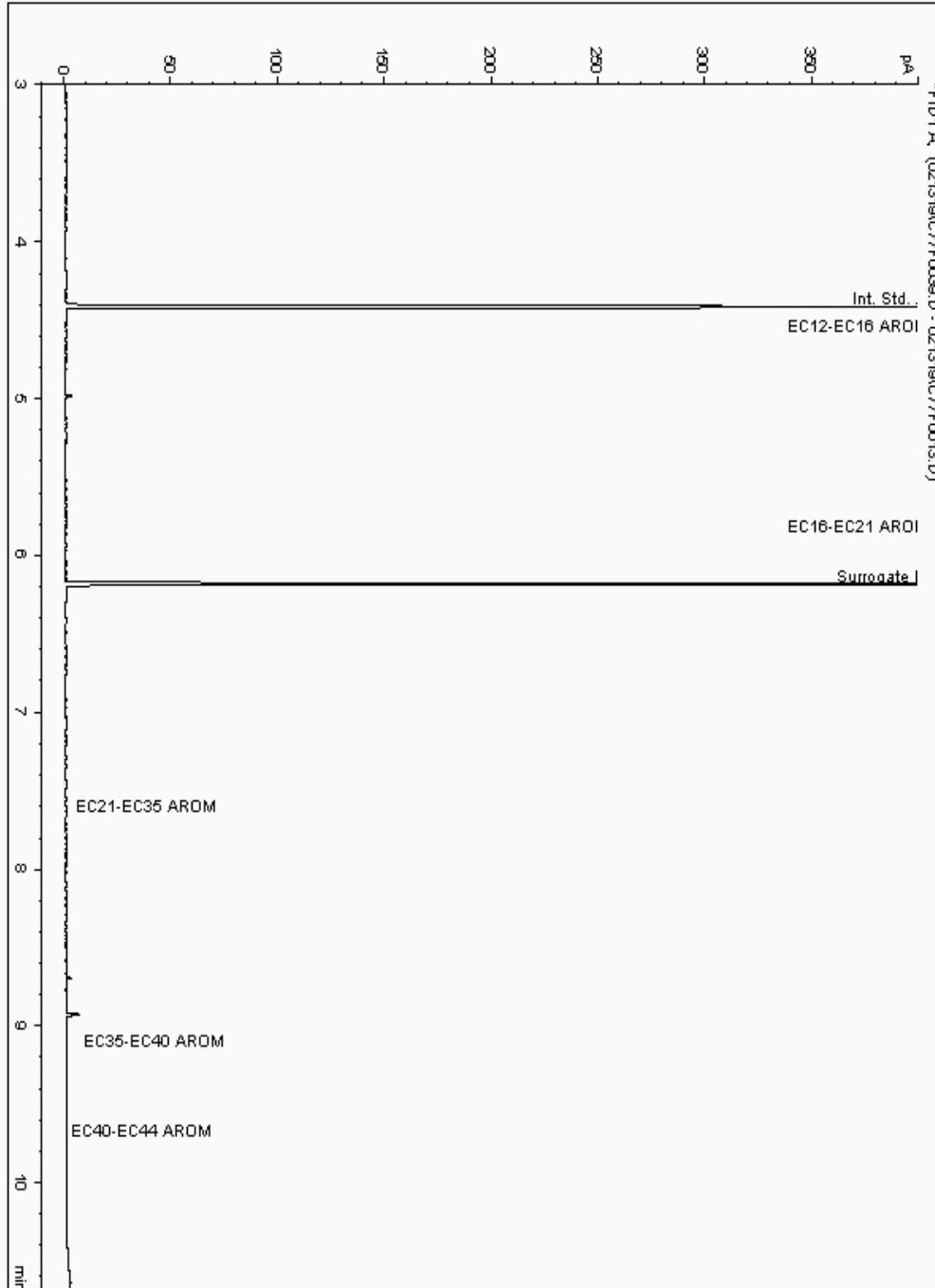
Analysis: EPH CWG (Aromatic) GC (S)
19313906

Sample No :
Sample ID : BH249

19,313,906Depth :6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110028-
Date Acquired : 13/02/2019 21:20:49 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

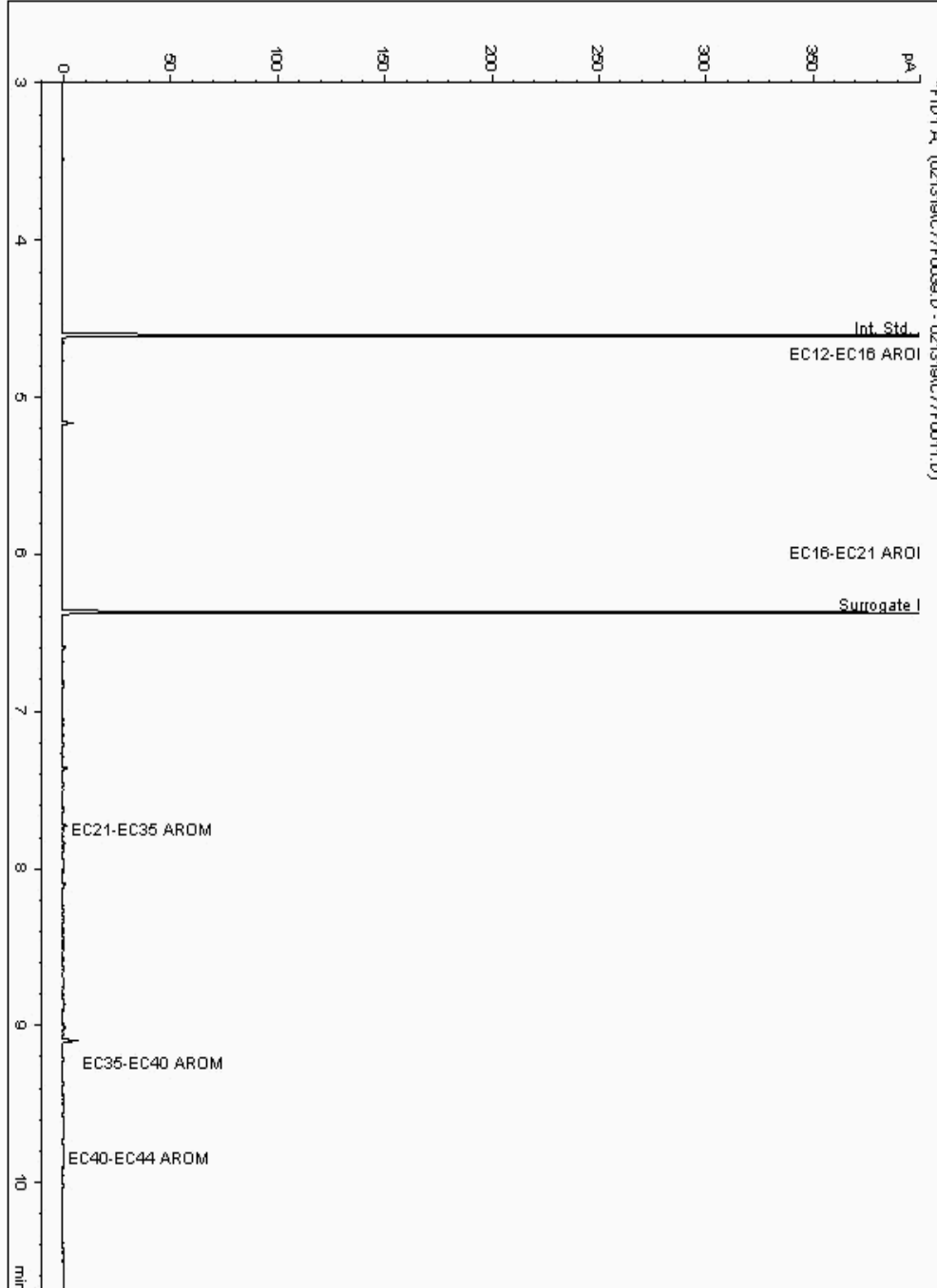
Analysis: EPH CWG (Aromatic) GC (S)
19313980

Sample No :
Sample ID : BH249

19,313,980Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109956-
Date Acquired : 2/13/2019 7:34:54 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

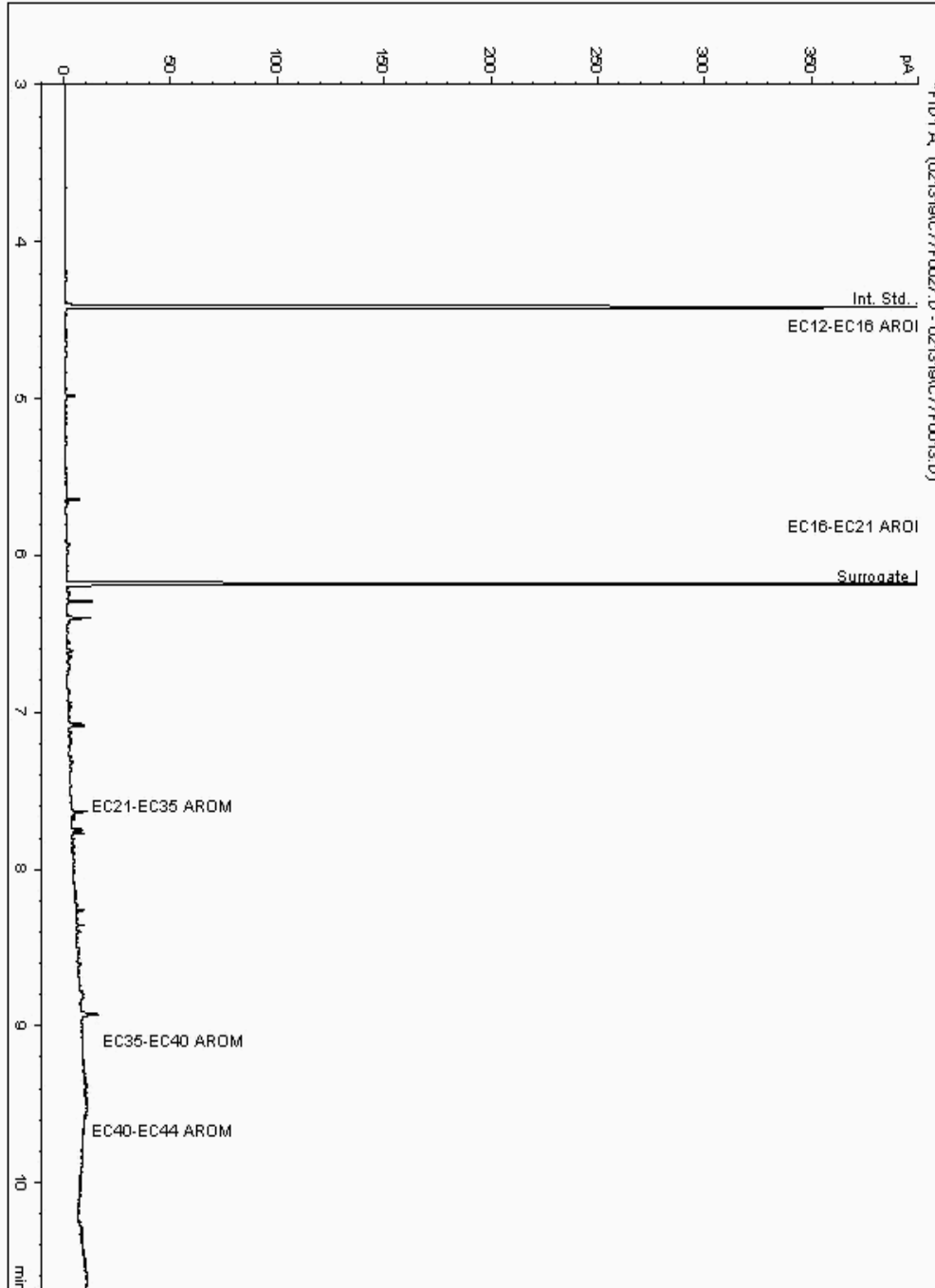
Analysis: EPH CWG (Aromatic) GC (S)
19314065

Sample No :
Sample ID : BH249

19,314,065 Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109756-
Date Acquired : 13/02/2019 18:01:39 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

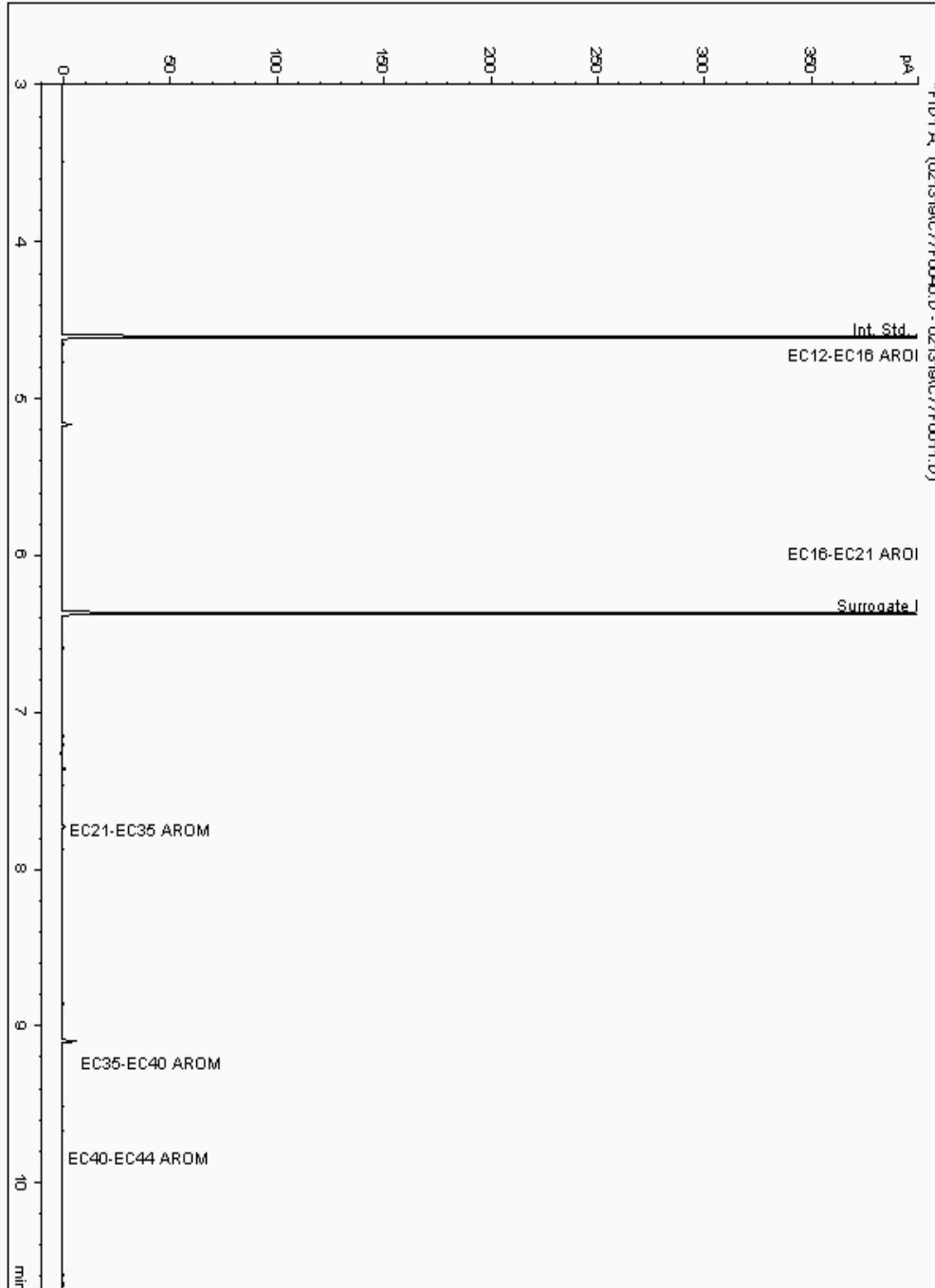
Analysis: EPH CWG (Aromatic) GC (S)
19314111

Sample No :
Sample ID : BH249

19,314,111Depth :9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110093-
Date Acquired : 2/13/2019 7:54:50 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

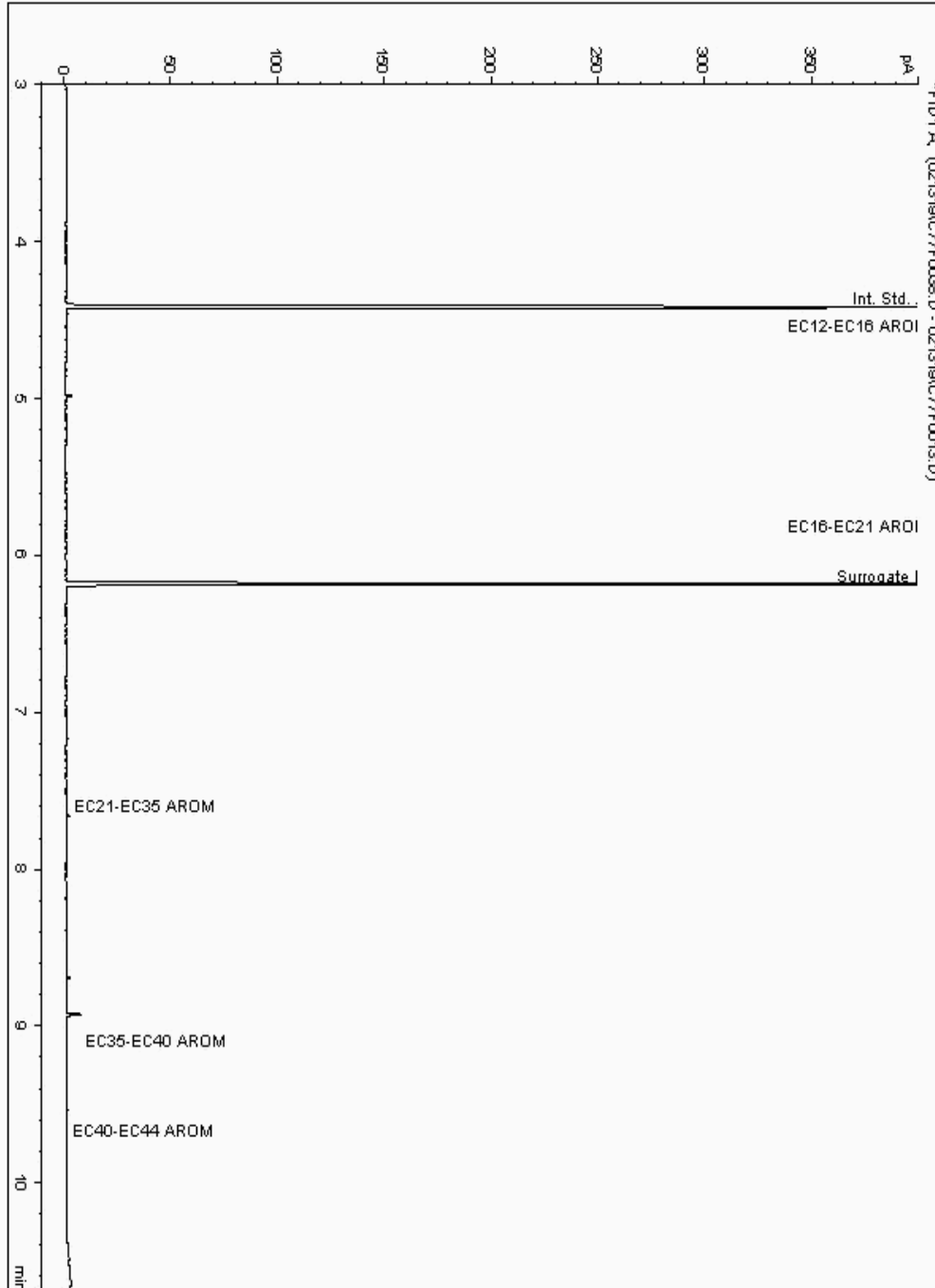
Analysis: EPH CWG (Aromatic) GC (S)
19314217

Sample No :
Sample ID : BH249

19,314,217 Depth : 10.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110136-
Date Acquired : 13/02/2019 21:00:43 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

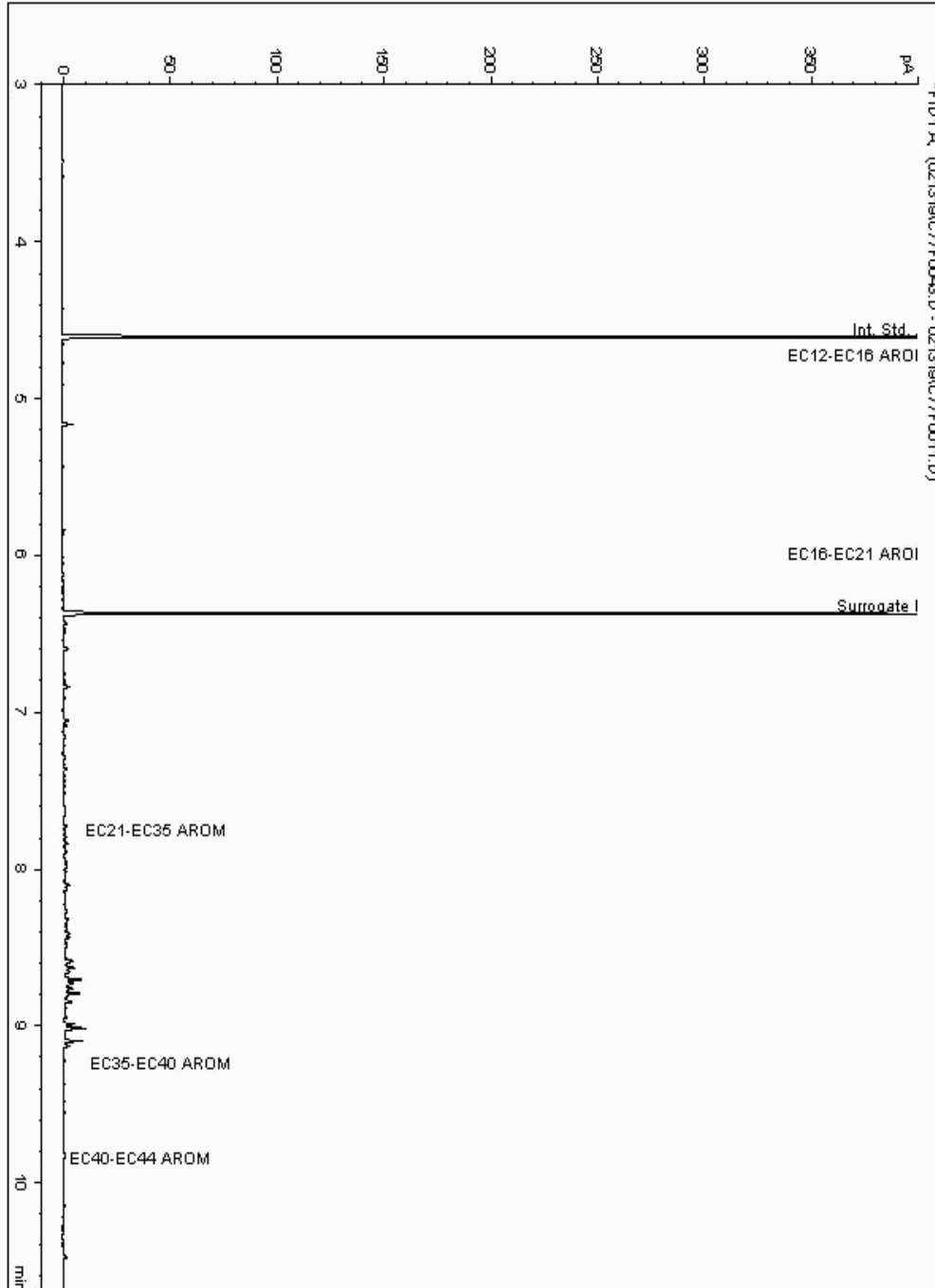
Analysis: EPH CWG (Aromatic) GC (S)
19314336

Sample No :
Sample ID : BH249

19,314,336Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109824-
Date Acquired : 2/13/2019 8:54:28 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

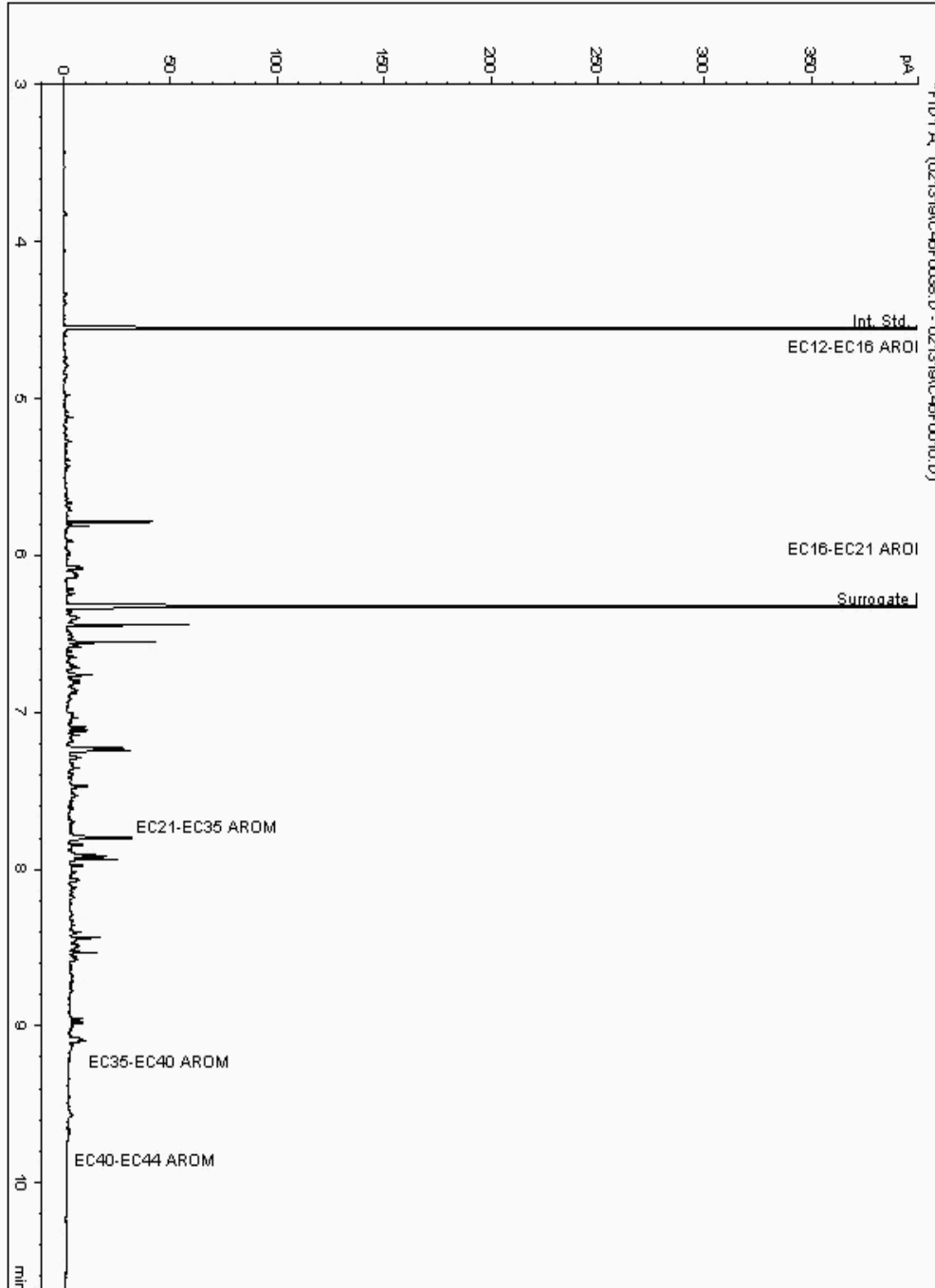
Analysis: EPH CWG (Aromatic) GC (S)
19314426

Sample No :
Sample ID : BH249

19,314,426 Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18109689-
Date Acquired : 13/02/2019 21:38:03 PM
Units : ppb
Dilution: BH249[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

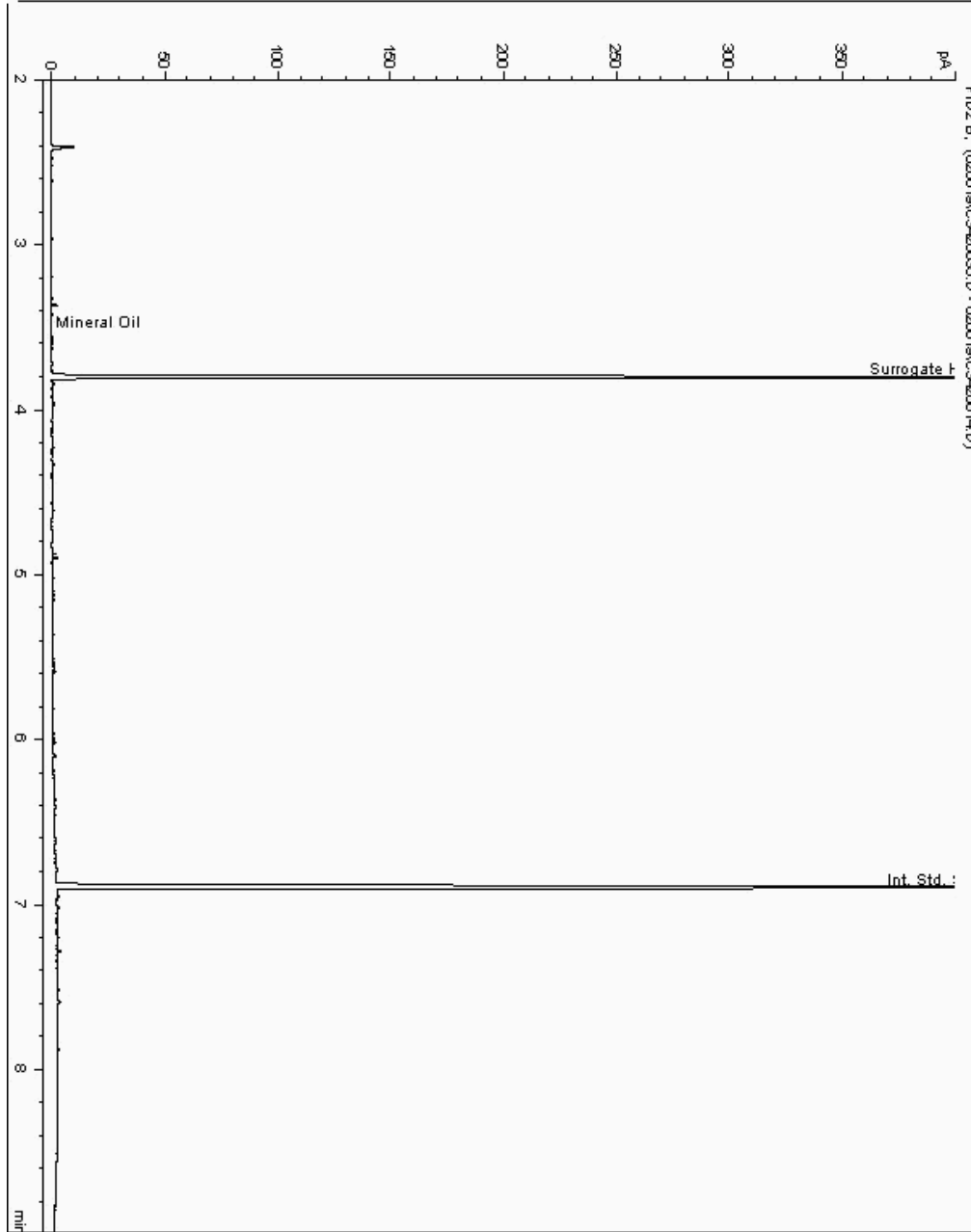
Analysis: Mineral Oil
19260845

Sample No :
Sample ID : BH247

19,260,845 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090194-
Date Acquired : 06/02/19 17:14:33 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

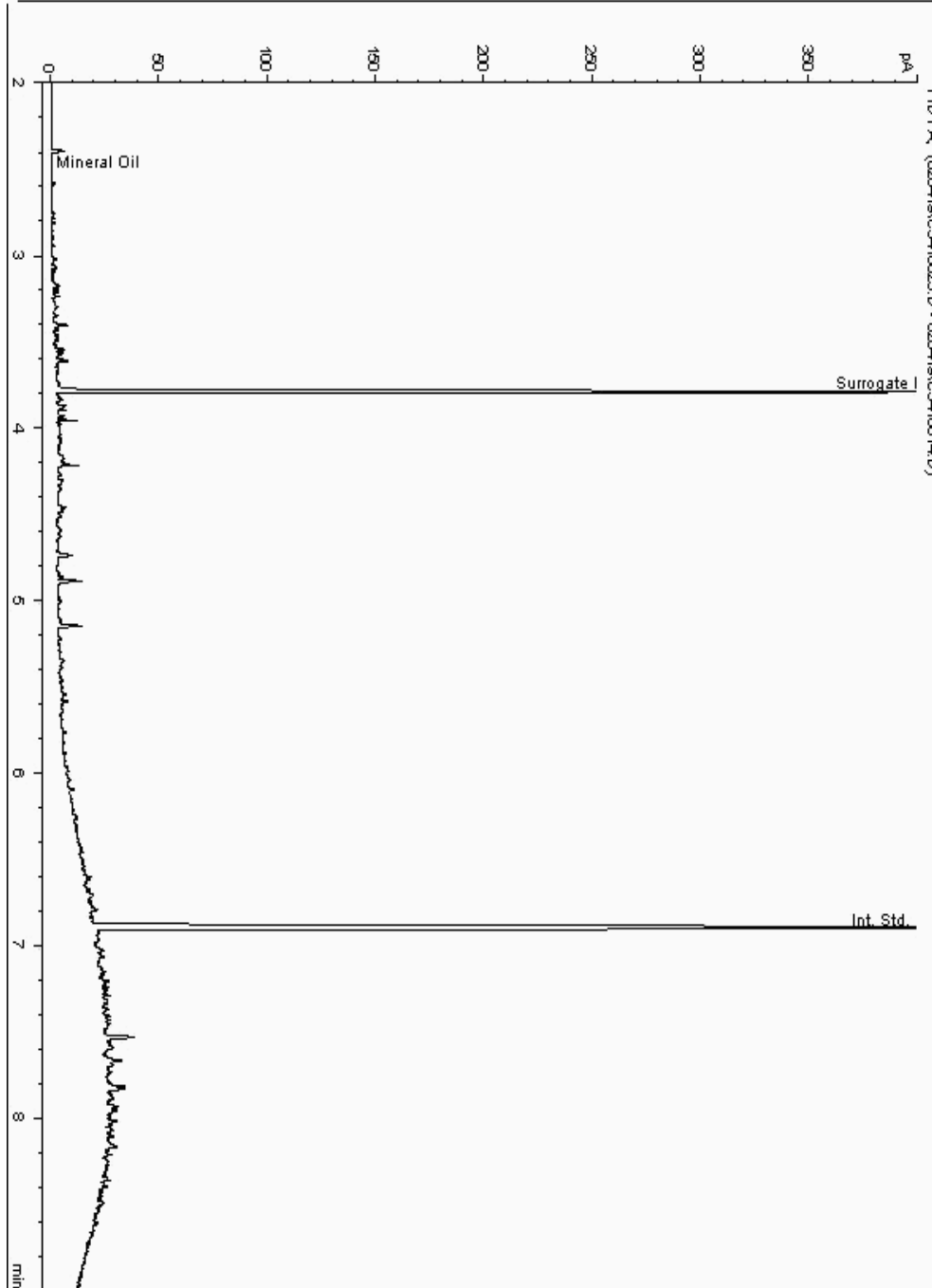
Analysis: Mineral Oil
19261010

Sample No :
Sample ID : BH247

19,261,010Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090216-
Date Acquired : 04/02/2019 18:59:01 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

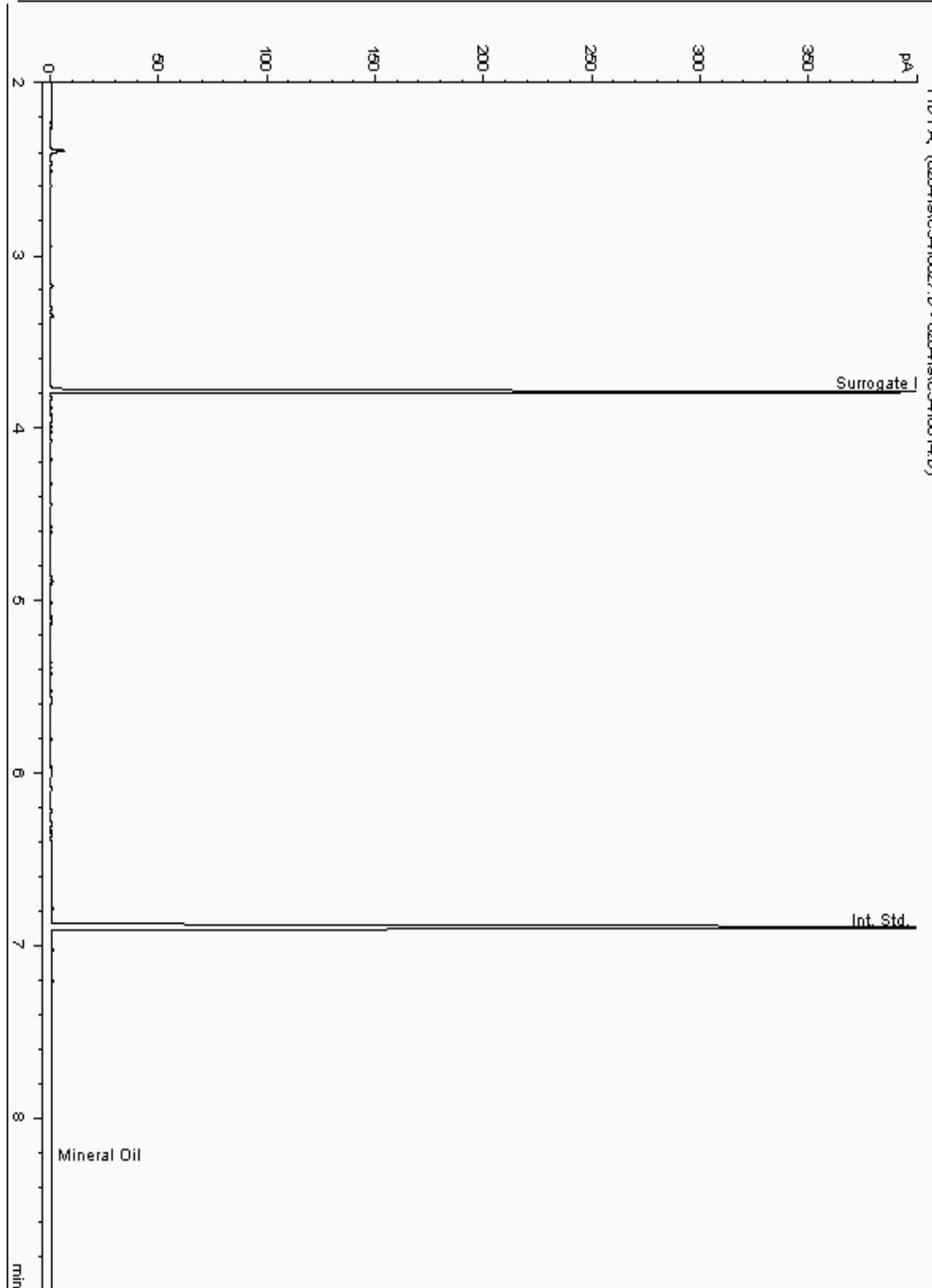
Analysis: Mineral Oil
19261061

Sample No :
Sample ID : BH247

19,261,061 Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090311-
Date Acquired : 04/02/2019 19:31:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

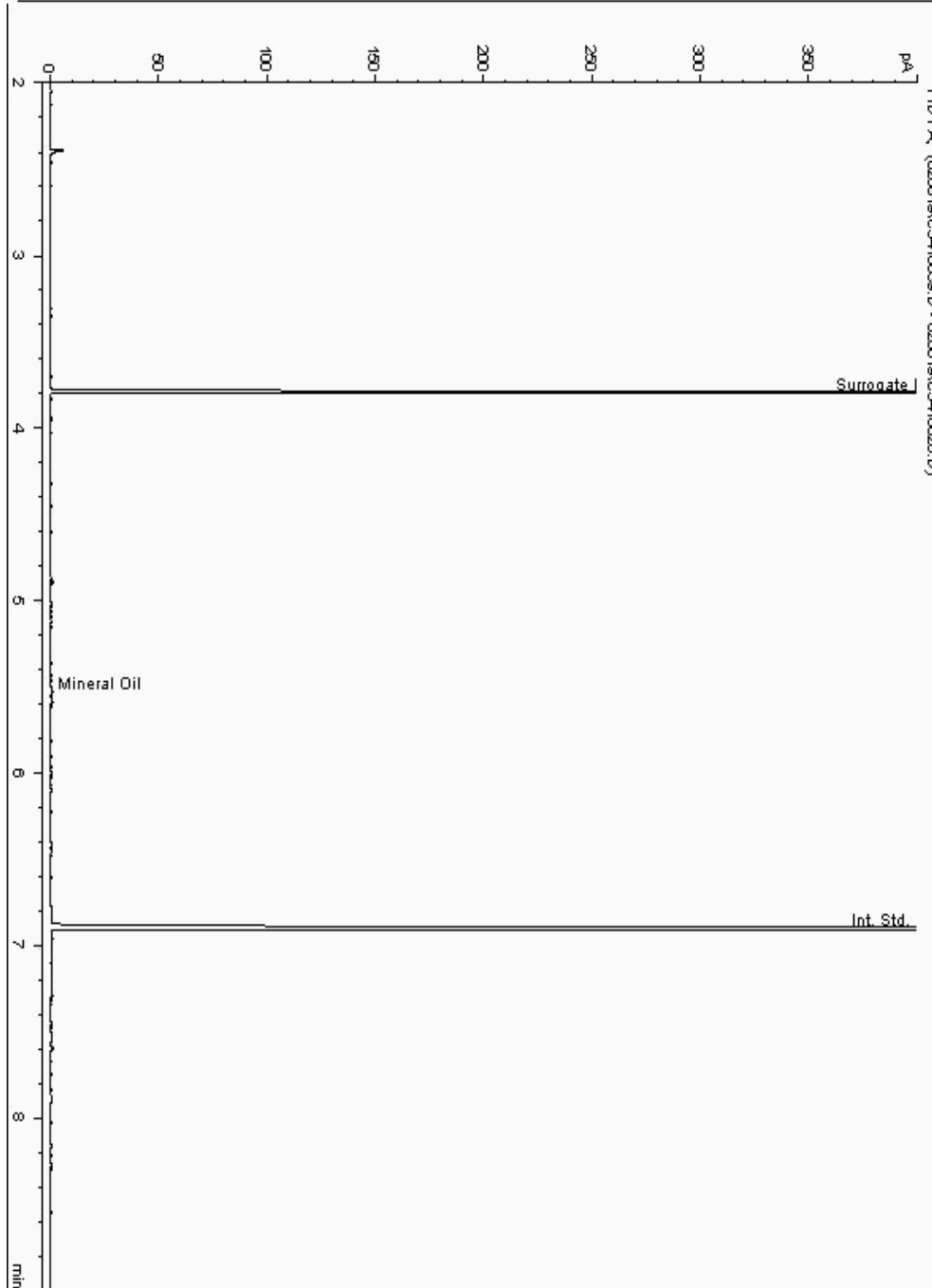
Analysis: Mineral Oil
19261529

Sample No :
Sample ID : BH247

19,261,529 Depth : 0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090169-
Date Acquired : 07/02/2019 11:31:18 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

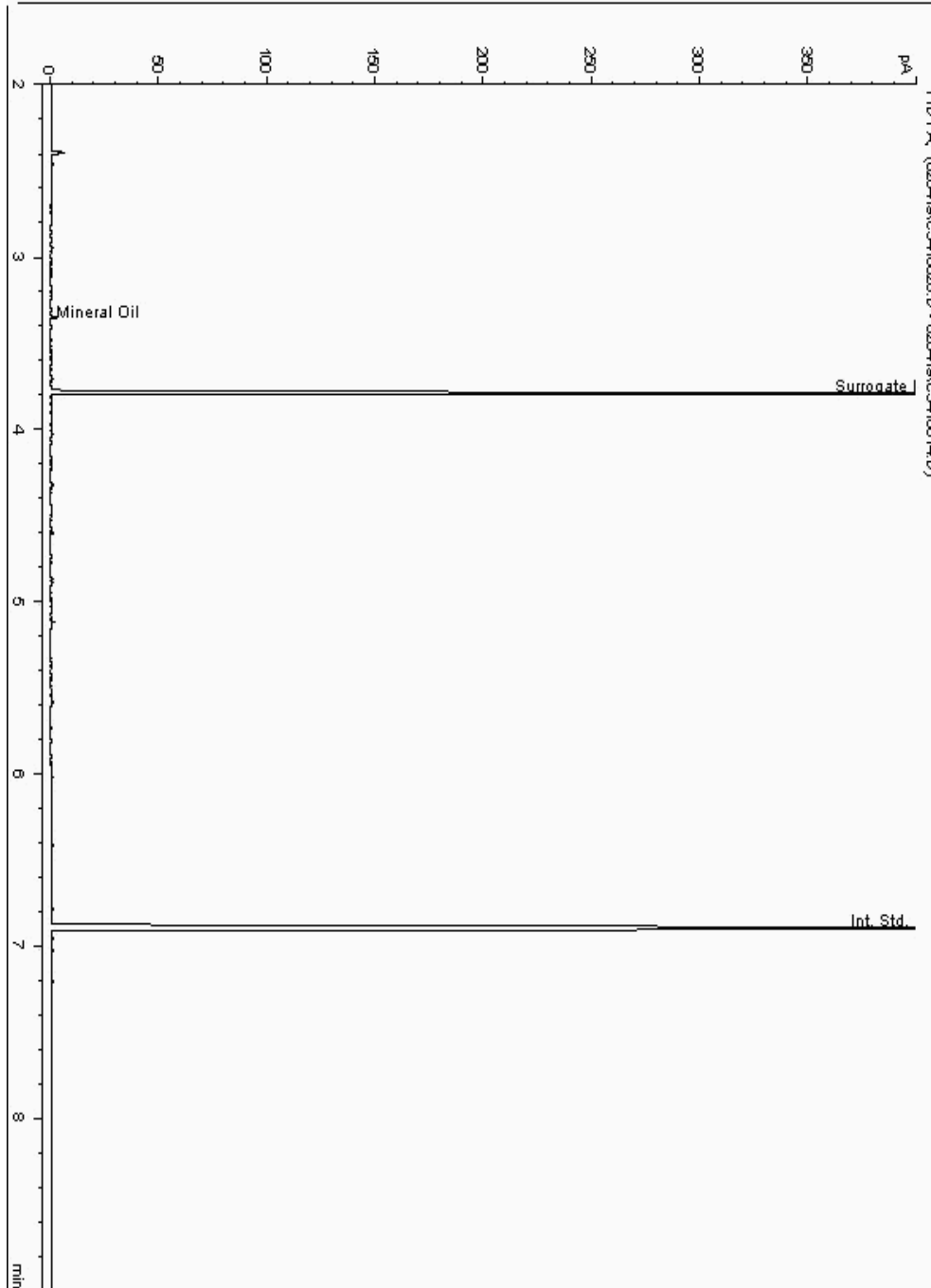
Analysis: Mineral Oil
19261627

Sample No :
Sample ID : BH247

19,261,627Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090384-
Date Acquired : 04/02/2019 19:52:20 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

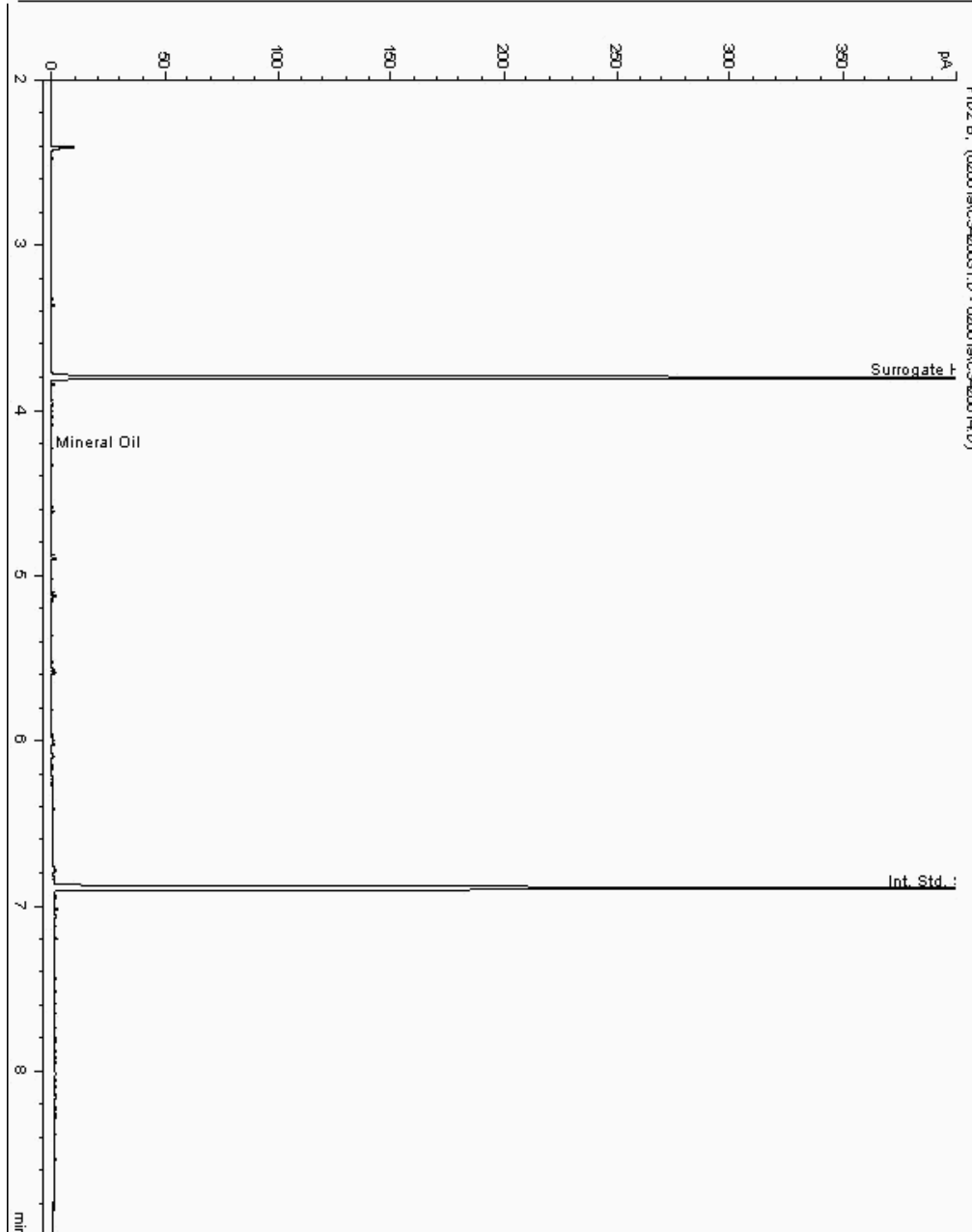
Analysis: Mineral Oil
19261760

Sample No :
Sample ID : BH247

19,261,760 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090287-
Date Acquired : 06/02/19 16:10:07 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

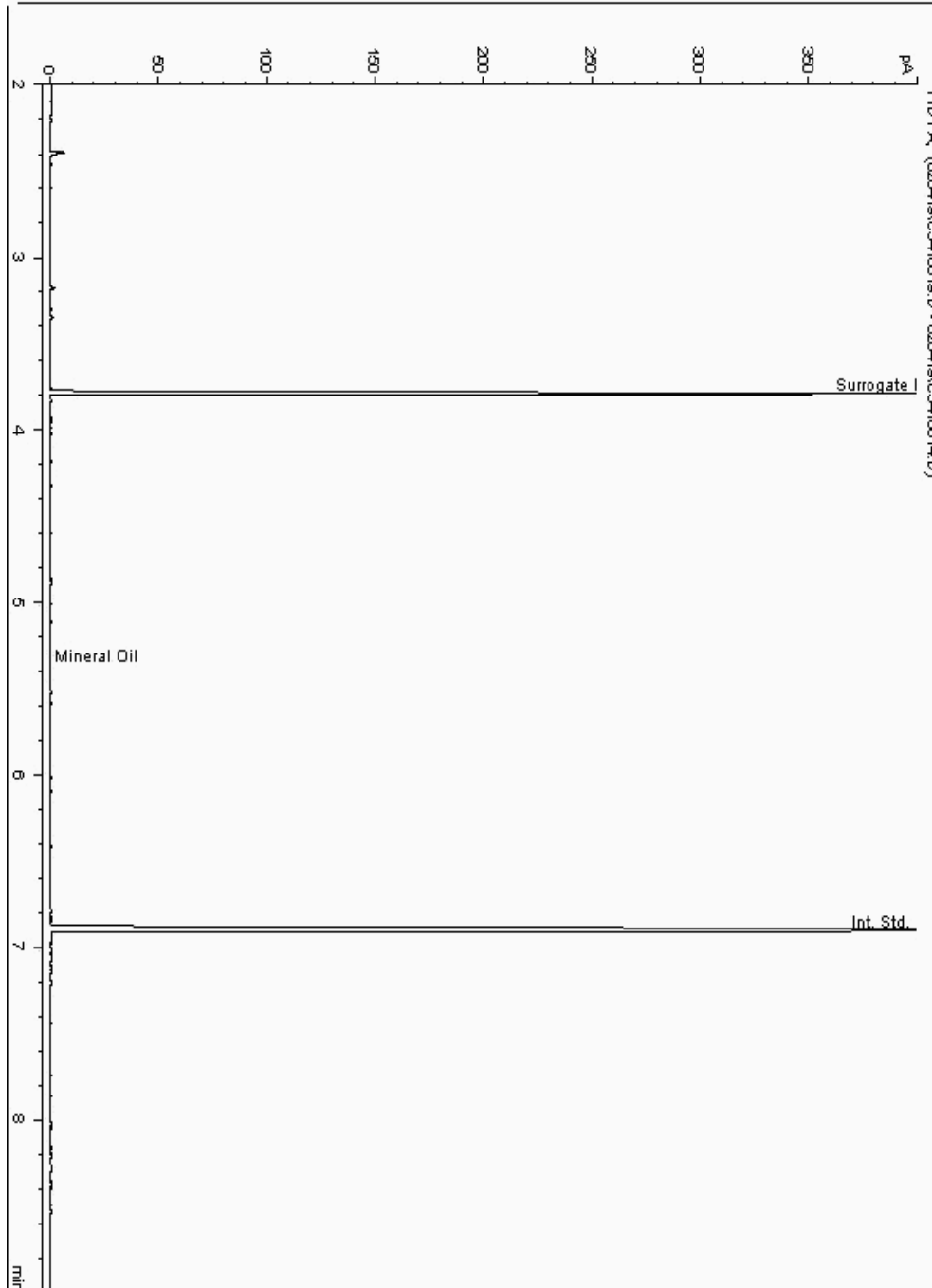
Analysis: Mineral Oil
19261906

Sample No :
Sample ID : BH247

19,261,906 Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090336-
Date Acquired : 04/02/2019 17:04:22 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

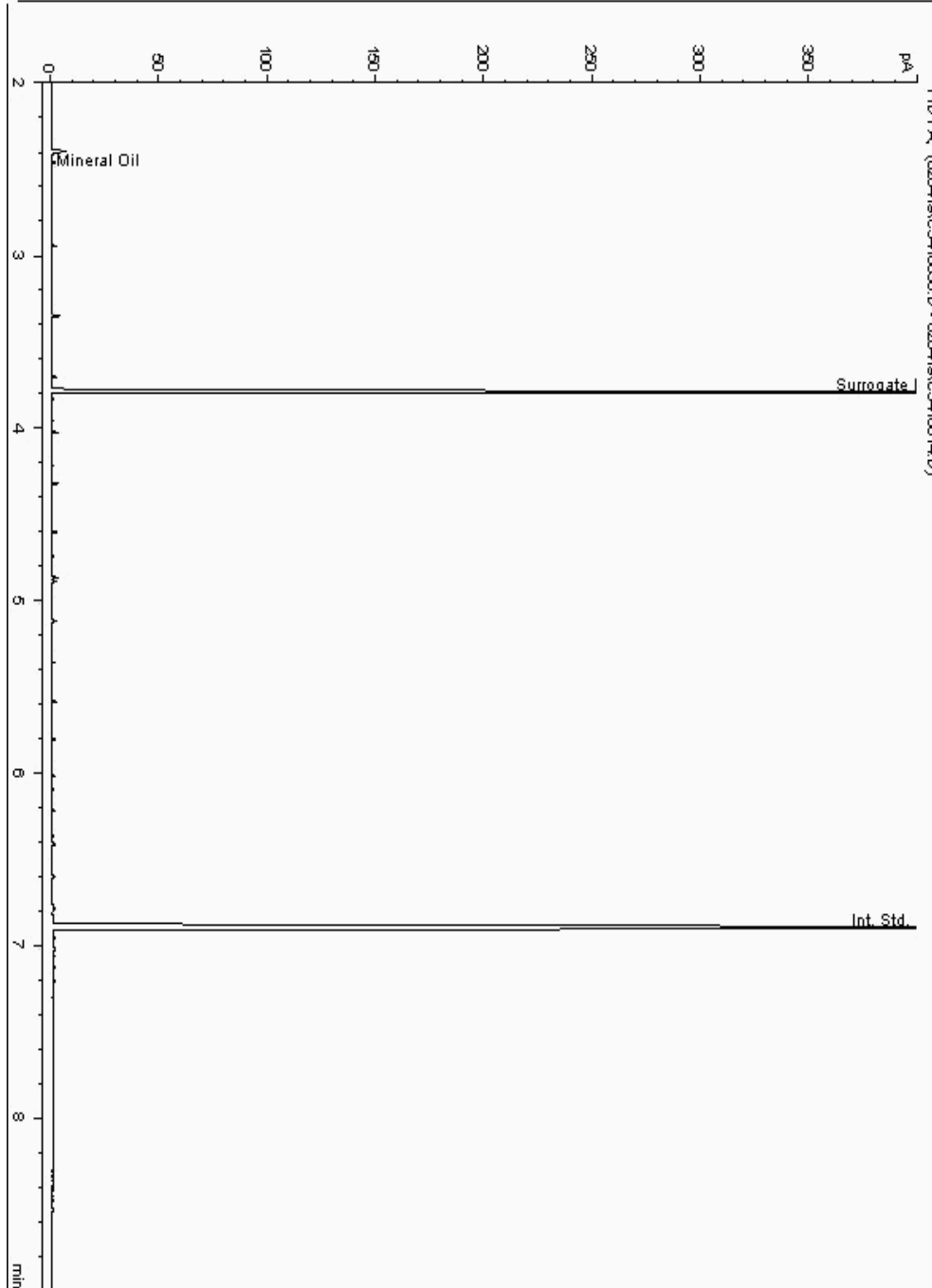
Analysis: Mineral Oil
19262031

Sample No :
Sample ID : BH247

19,262,031 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090414-
Date Acquired : 04/02/2019 22:11:46 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

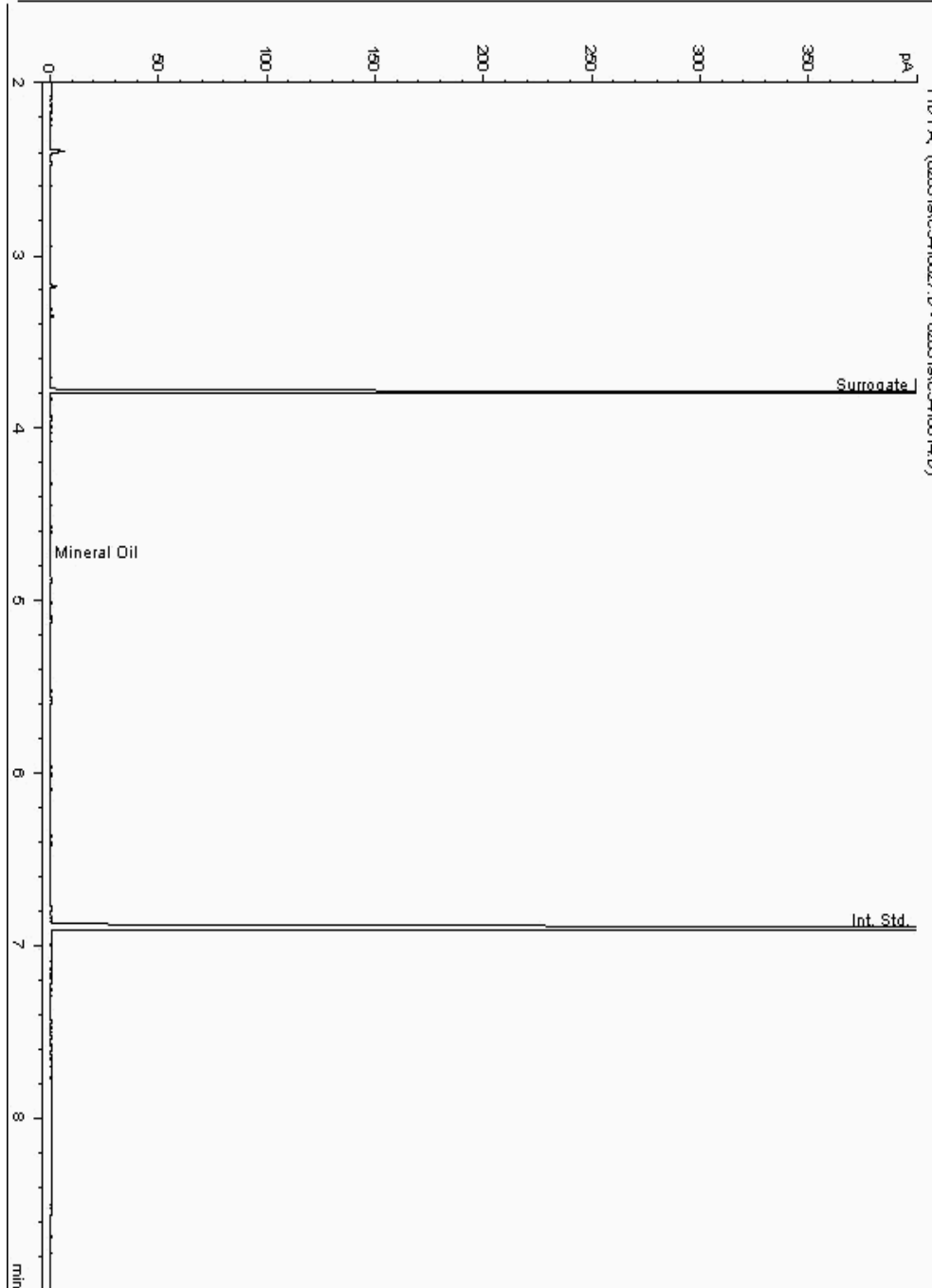
Analysis: Mineral Oil
19262216

Sample No :
Sample ID : BH247

19,262,216 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090359-
Date Acquired : 05/02/2019 14:41:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

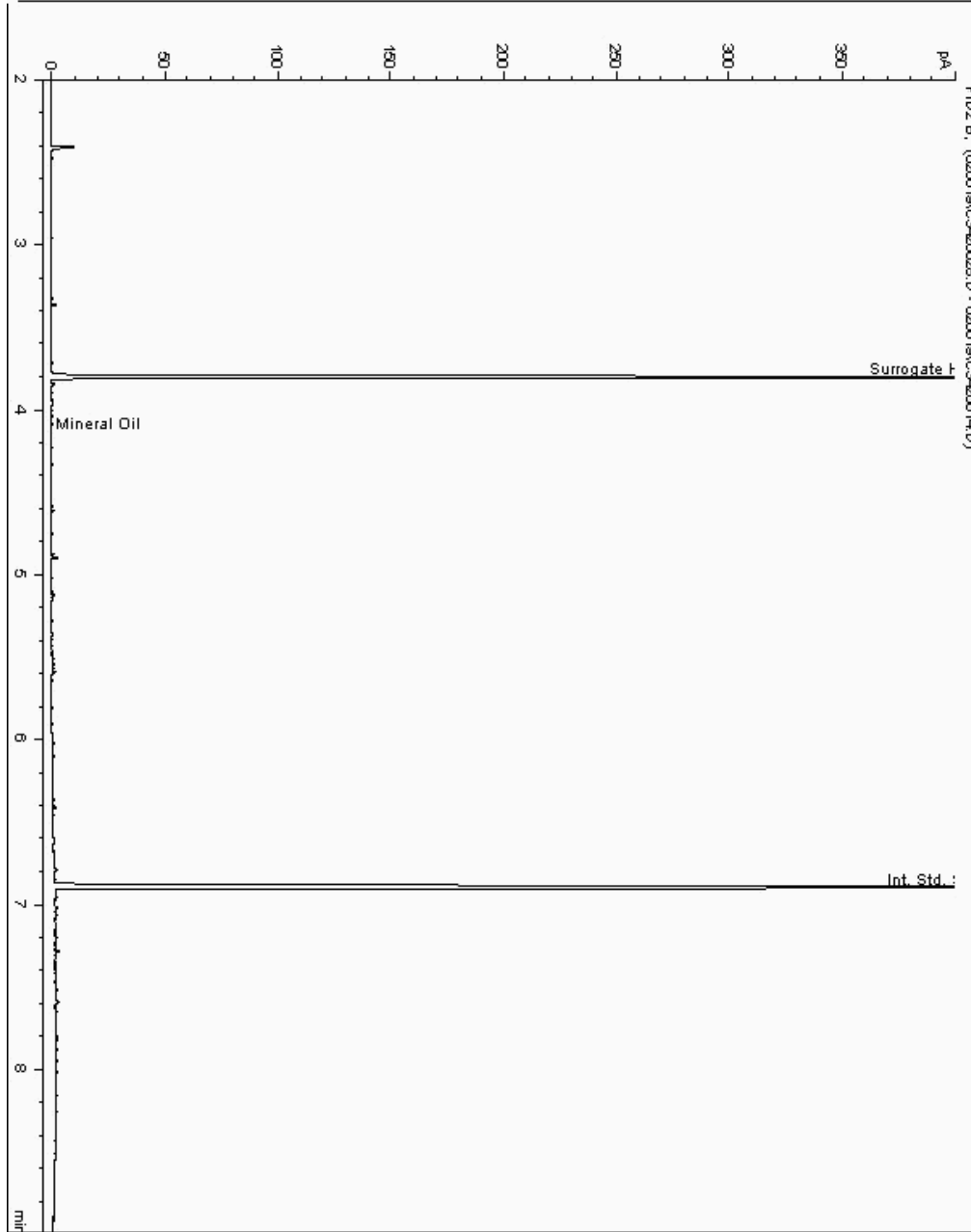
Analysis: Mineral Oil
19262301

Sample No :
Sample ID : BH247

19,262,301 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090261-
Date Acquired : 06/02/19 15:18:00 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

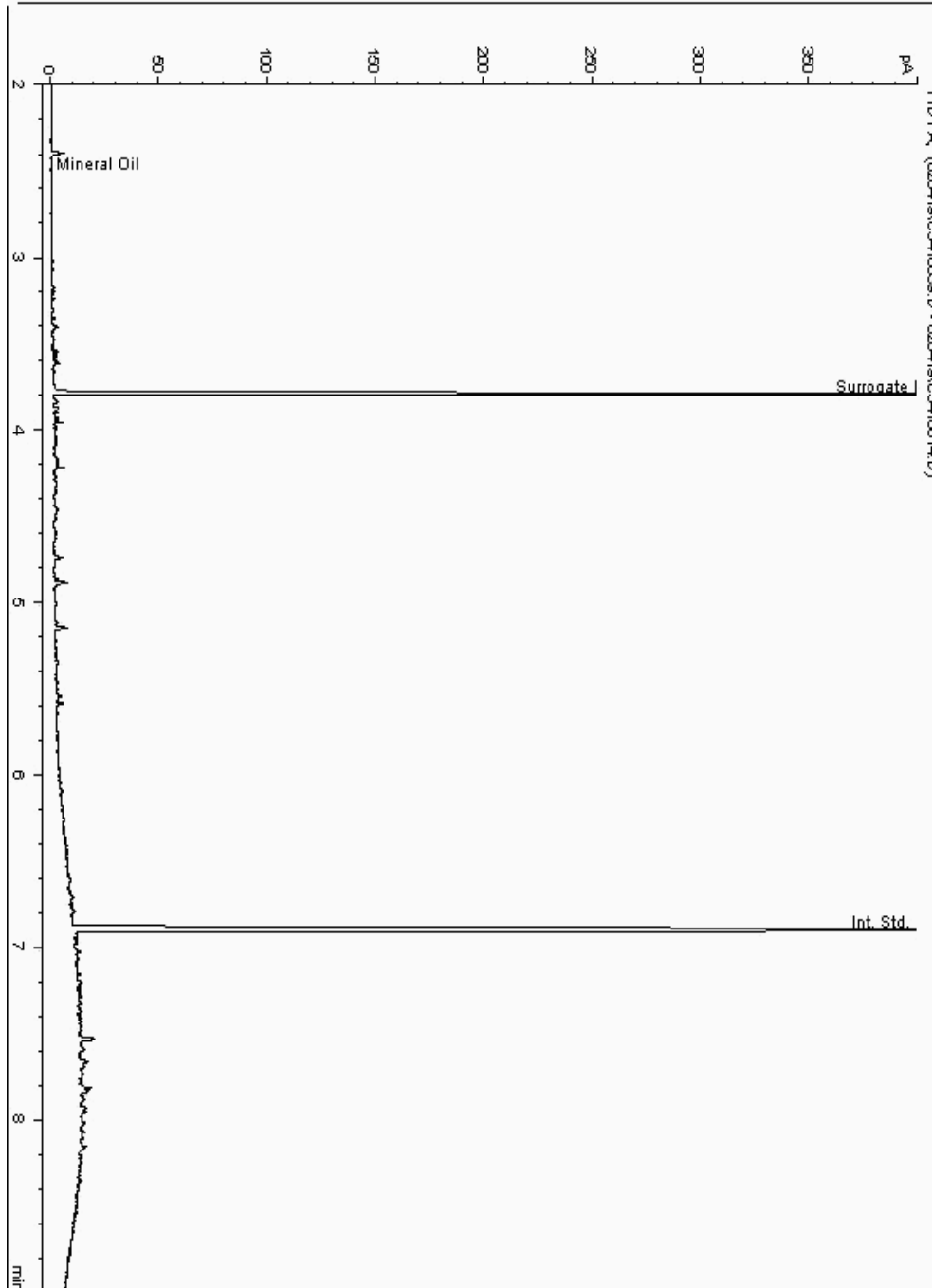
Analysis: Mineral Oil
19262440

Sample No :
Sample ID : BH247

19,262,440Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090239-
Date Acquired : 04/02/2019 23:05:09 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

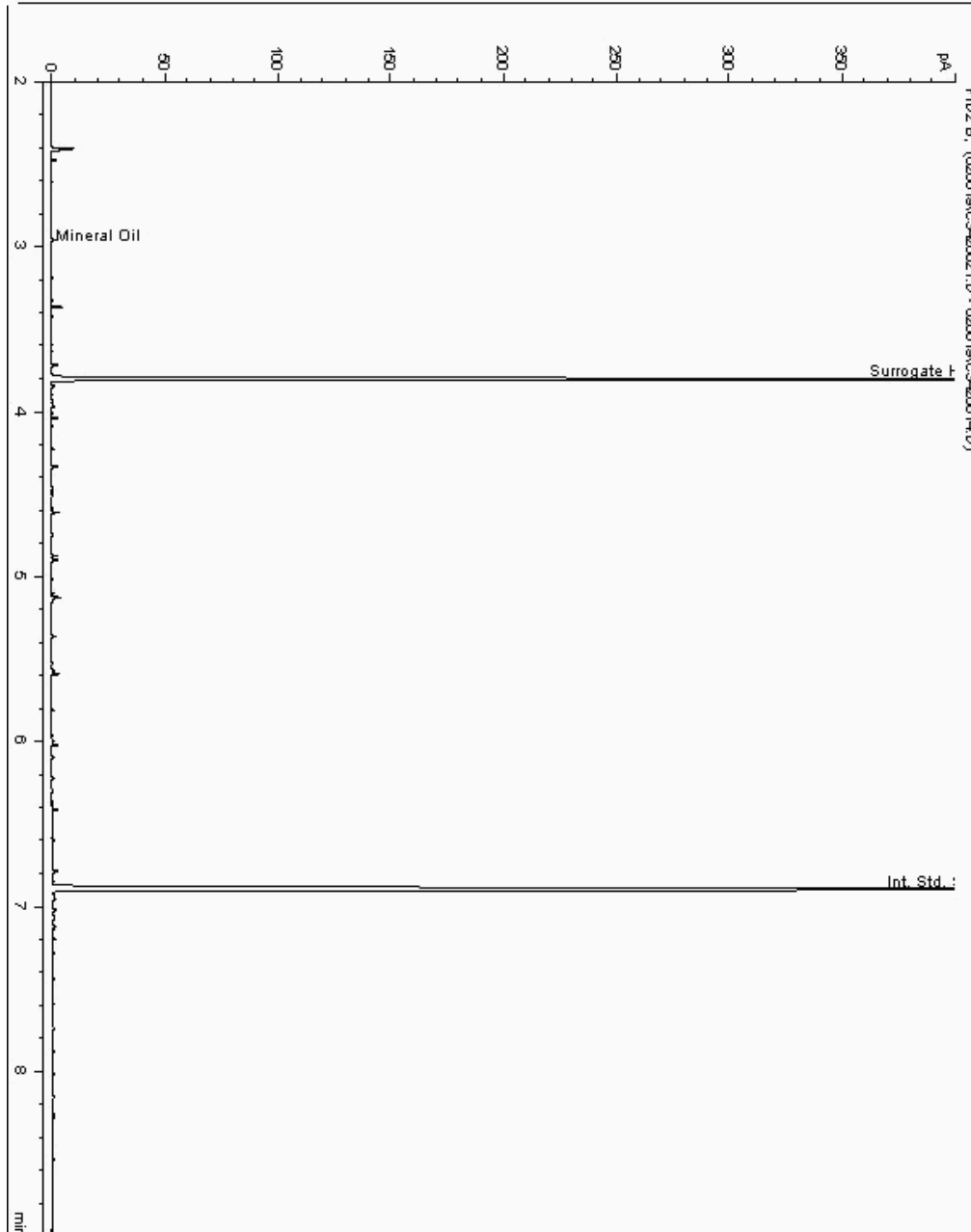
Analysis: Mineral Oil
19262775

Sample No :
Sample ID : BH248

19,262,775 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091026-
Date Acquired : 06/02/19 13:13:09 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

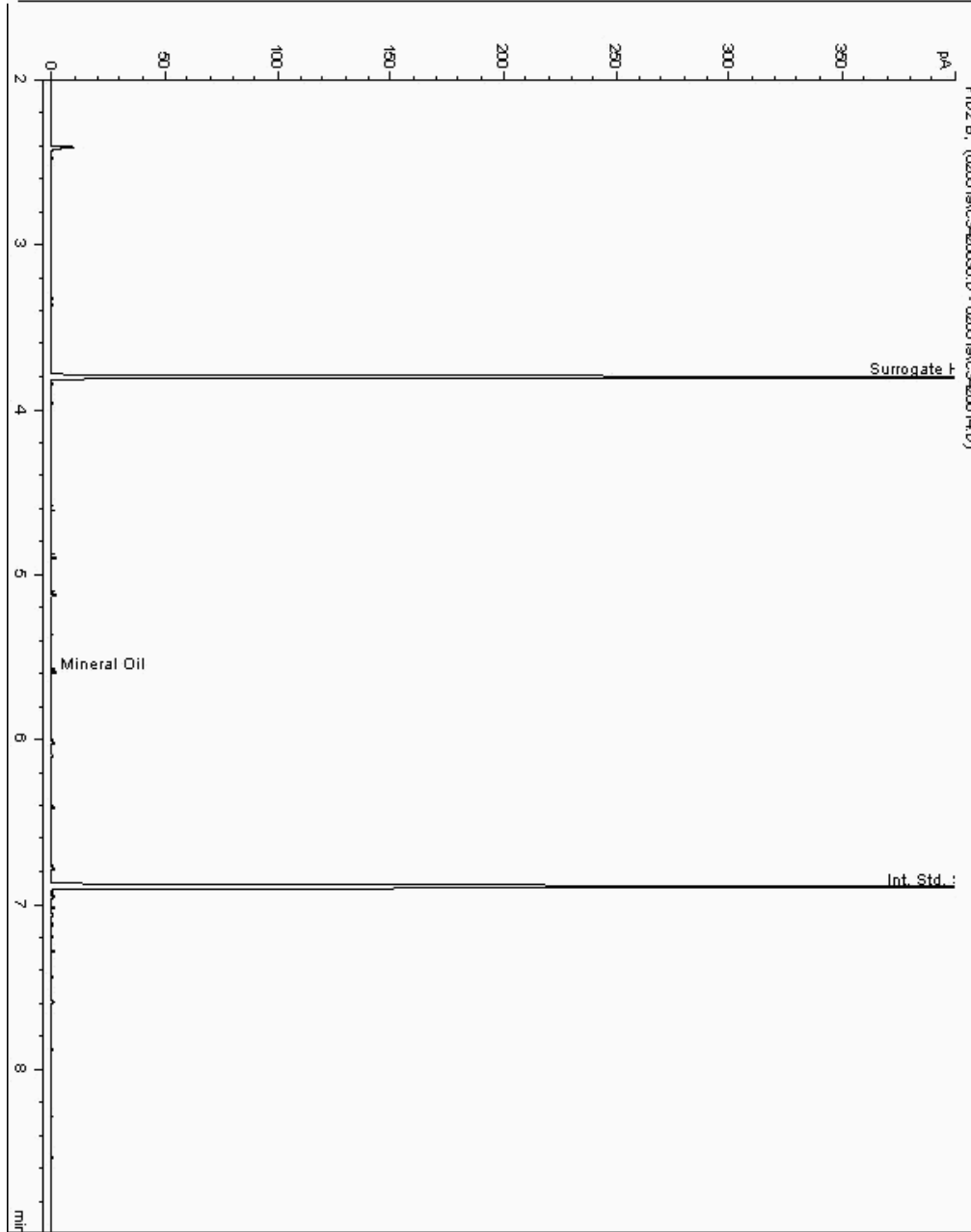
Analysis: Mineral Oil
19270444

Sample No :
Sample ID : BH248

19,270,444Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090526-
Date Acquired : 05/02/19 18:43:19 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

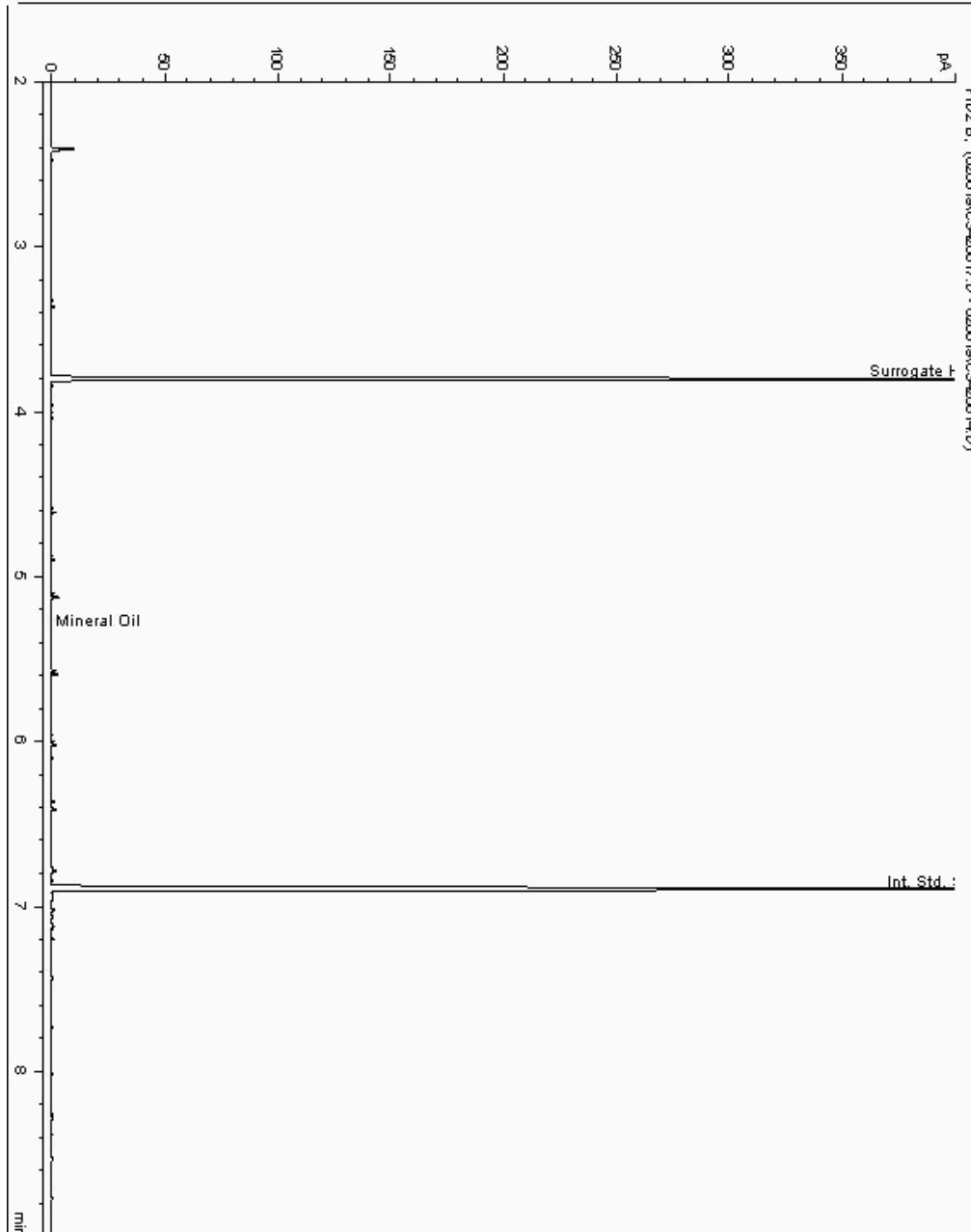
Analysis: Mineral Oil
19270490

Sample No :
Sample ID : BH248

19,270,490 Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090768-
Date Acquired : 06/02/19 11:50:52 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

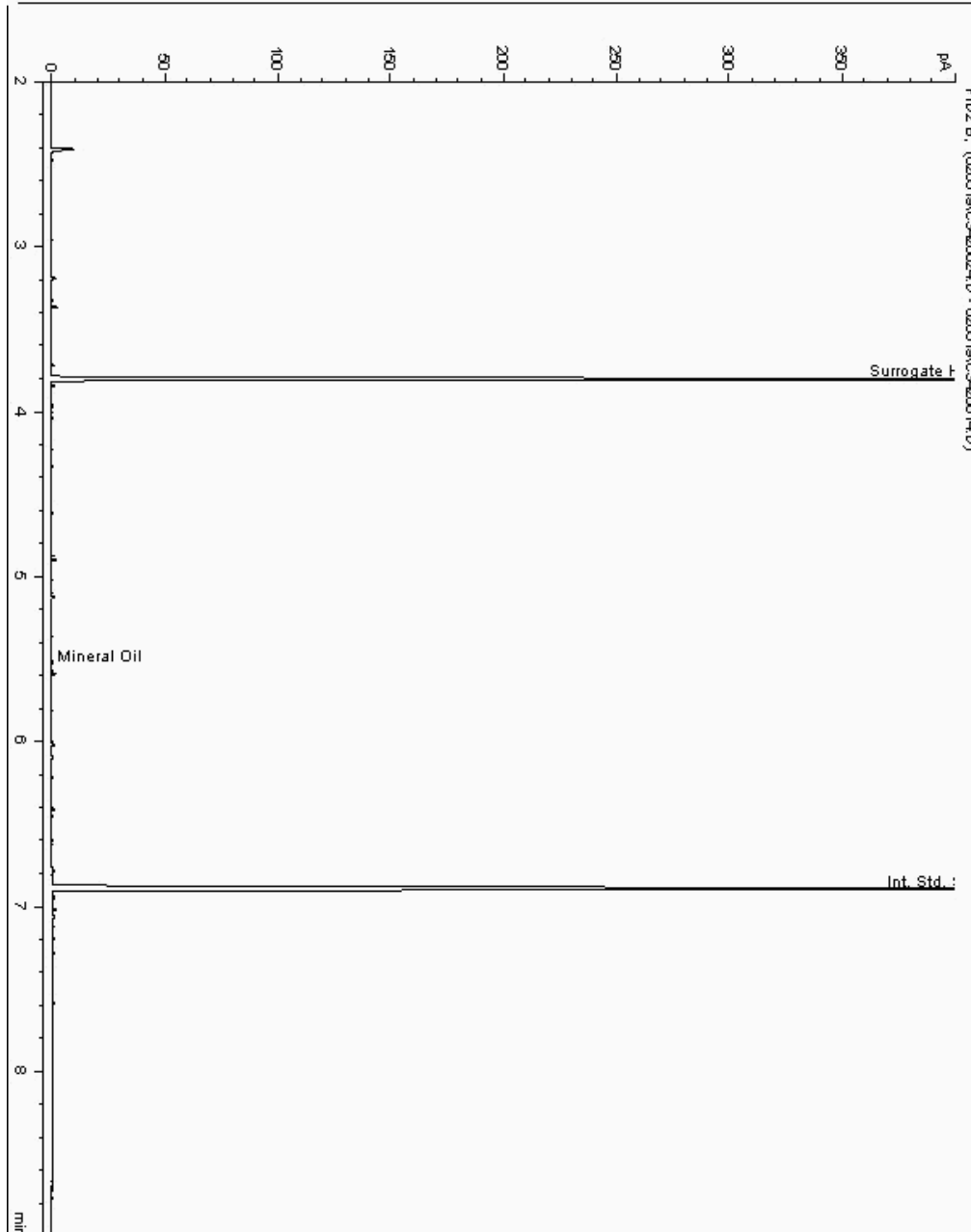
Analysis: Mineral Oil
19270521

Sample No :
Sample ID : BH248

19,270,521 Depth : 0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090500-
Date Acquired : 05/02/19 17:06:34 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

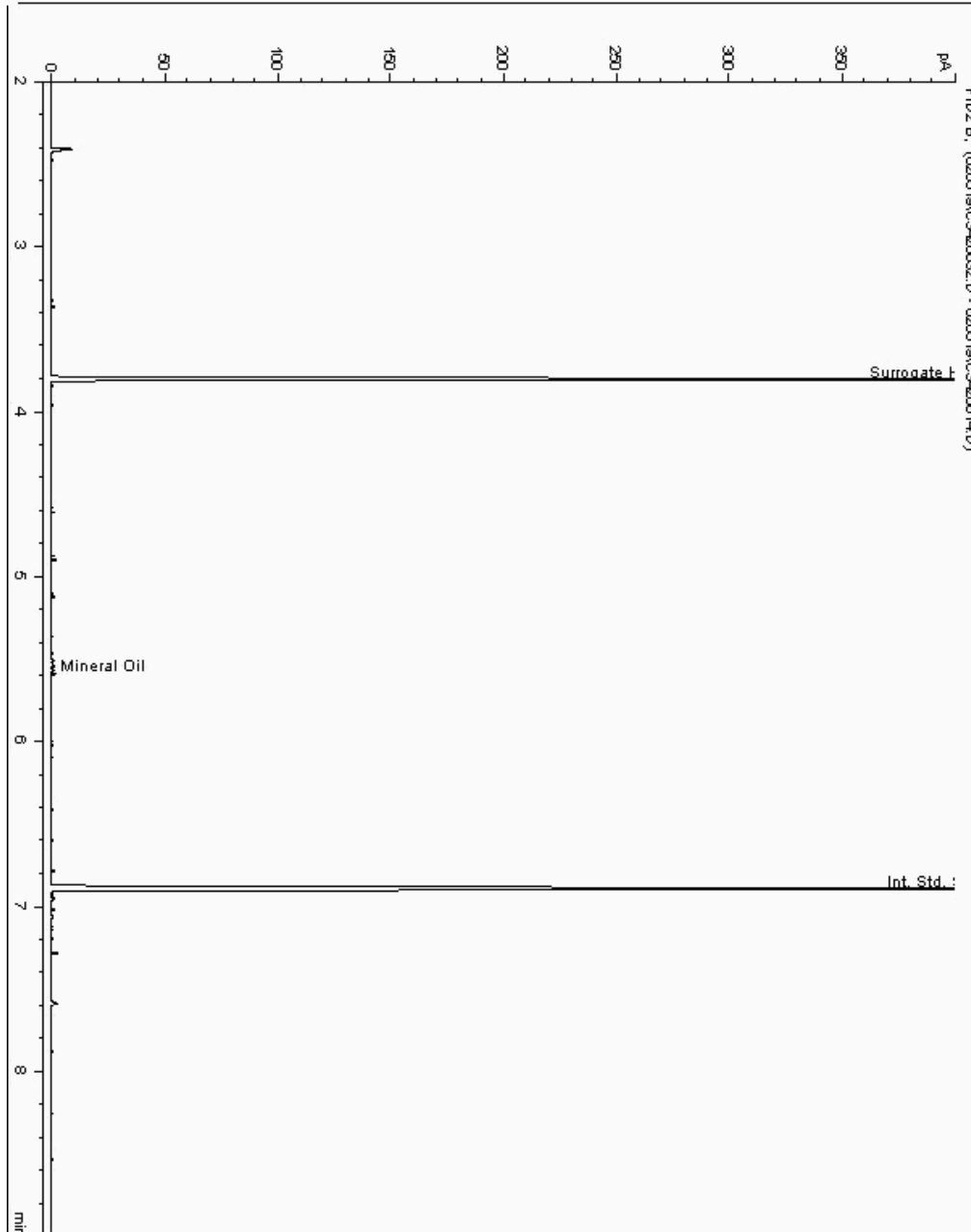
Analysis: Mineral Oil
19270643

Sample No :
Sample ID : BH248

19,270,643Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090556-
Date Acquired : 05/02/19 19:15:31 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

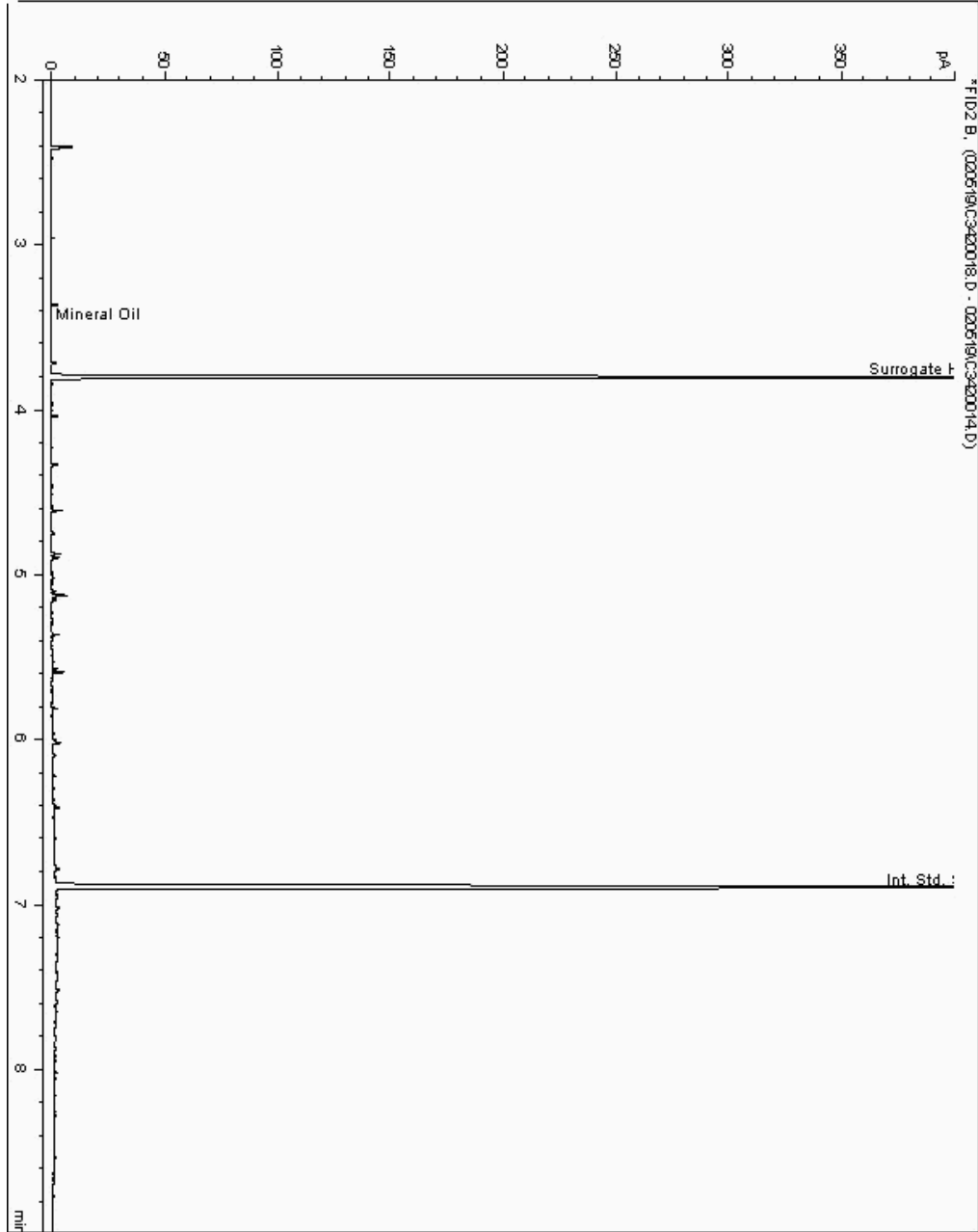
Analysis: Mineral Oil
19270701

Sample No :
Sample ID : BH248

19,270,701 Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090441-
Date Acquired : 05/02/19 15:29:59 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

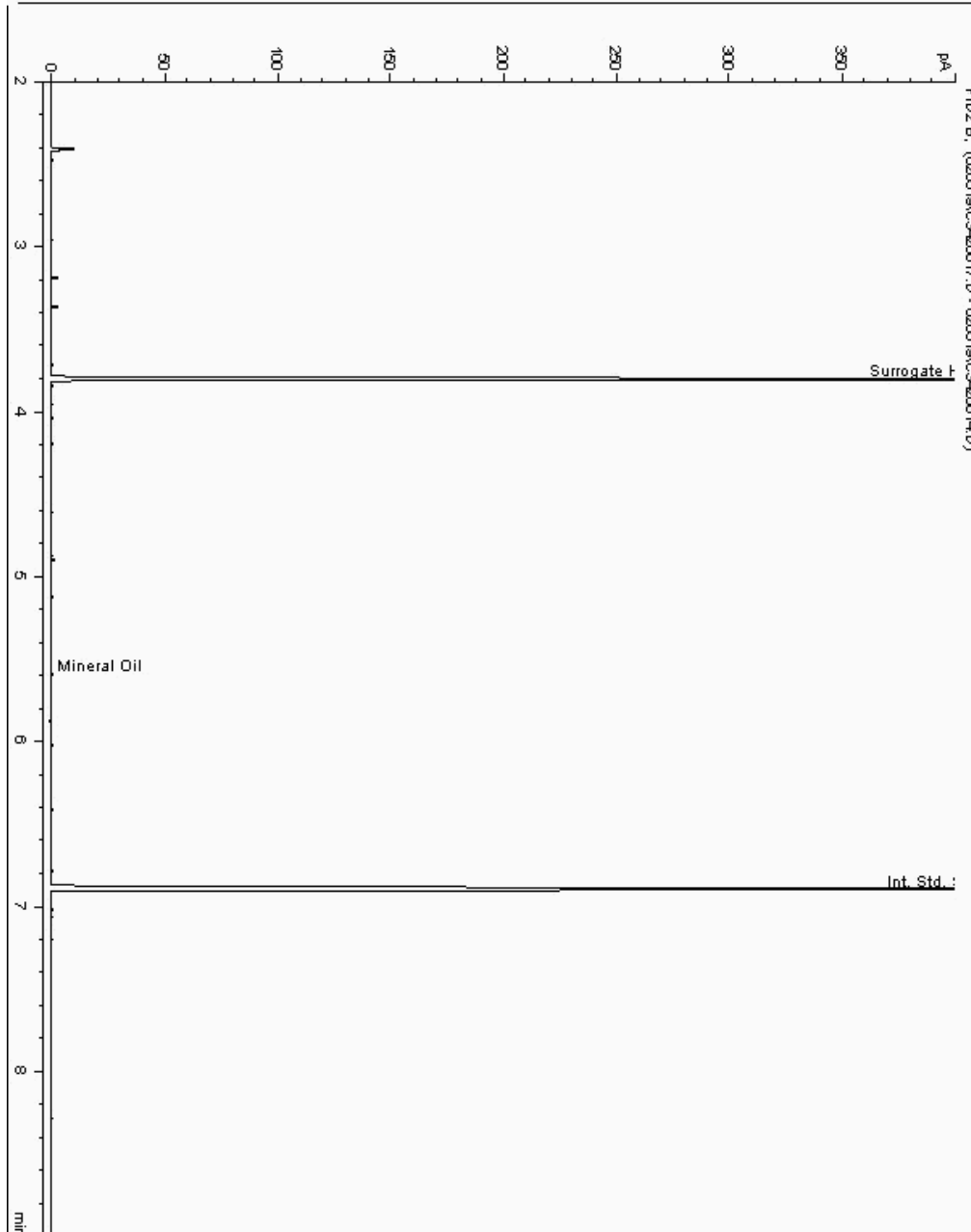
Analysis: Mineral Oil
19270765

Sample No :
Sample ID : BH248

19,270,765Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090818-
Date Acquired : 05/02/19 15:09:46 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

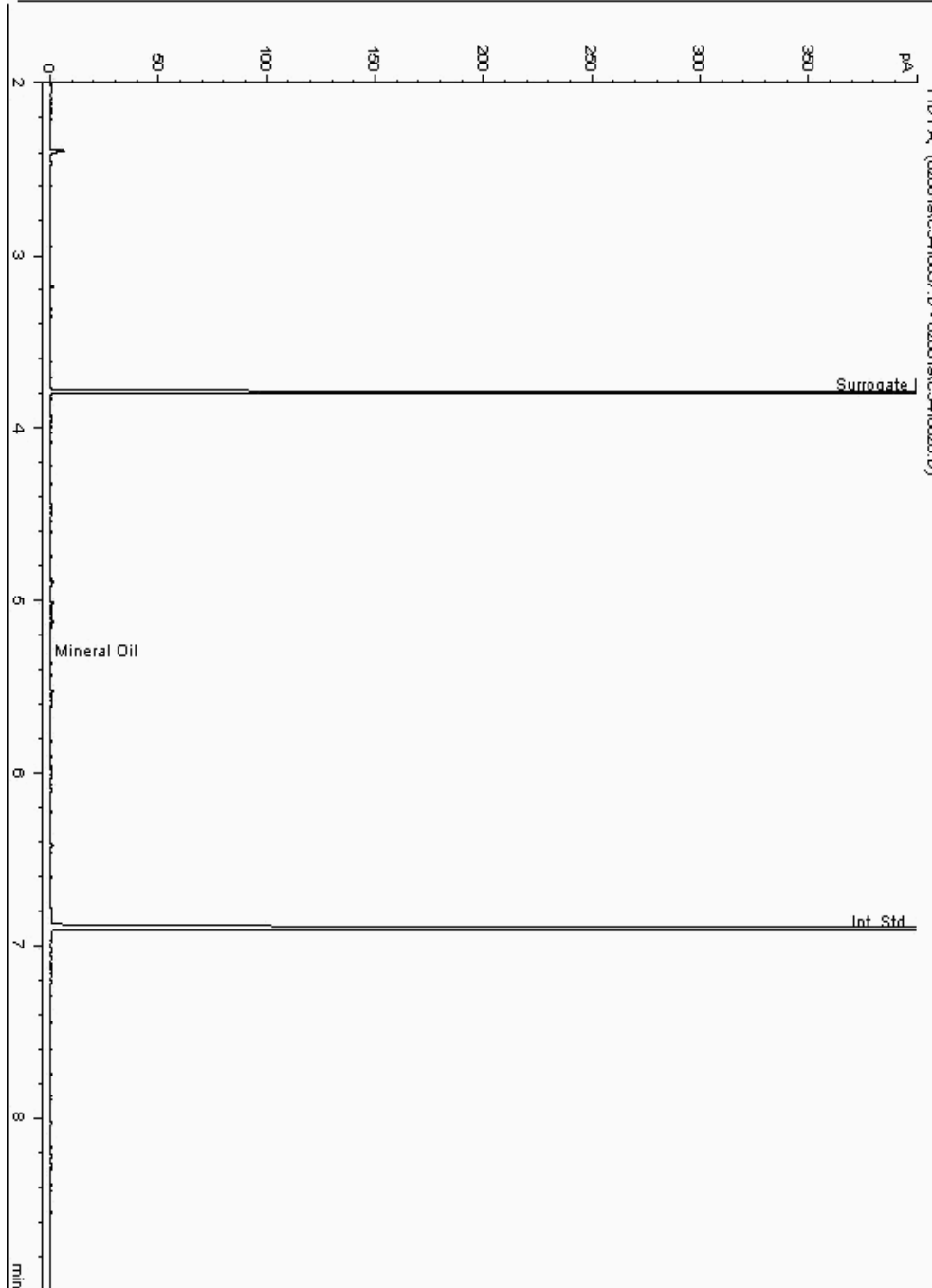
Analysis: Mineral Oil
19271465

Sample No :
Sample ID : BH248

19,271,465Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090888-
Date Acquired : 07/02/2019 10:49:57 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

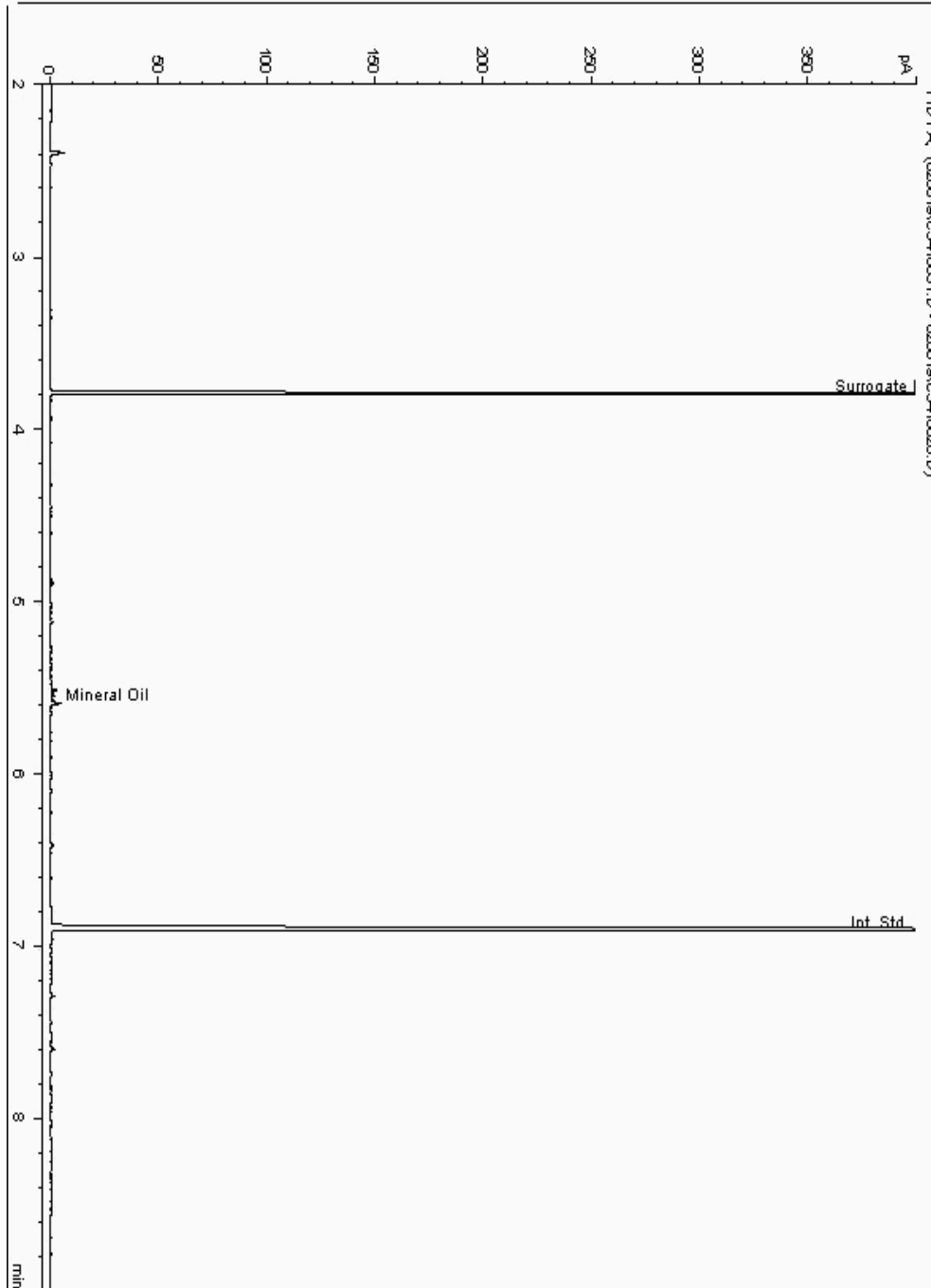
Analysis: Mineral Oil
19271589

Sample No :
Sample ID : BH248

19,271,589Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090614-
Date Acquired : 07/02/2019 08:55:40 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

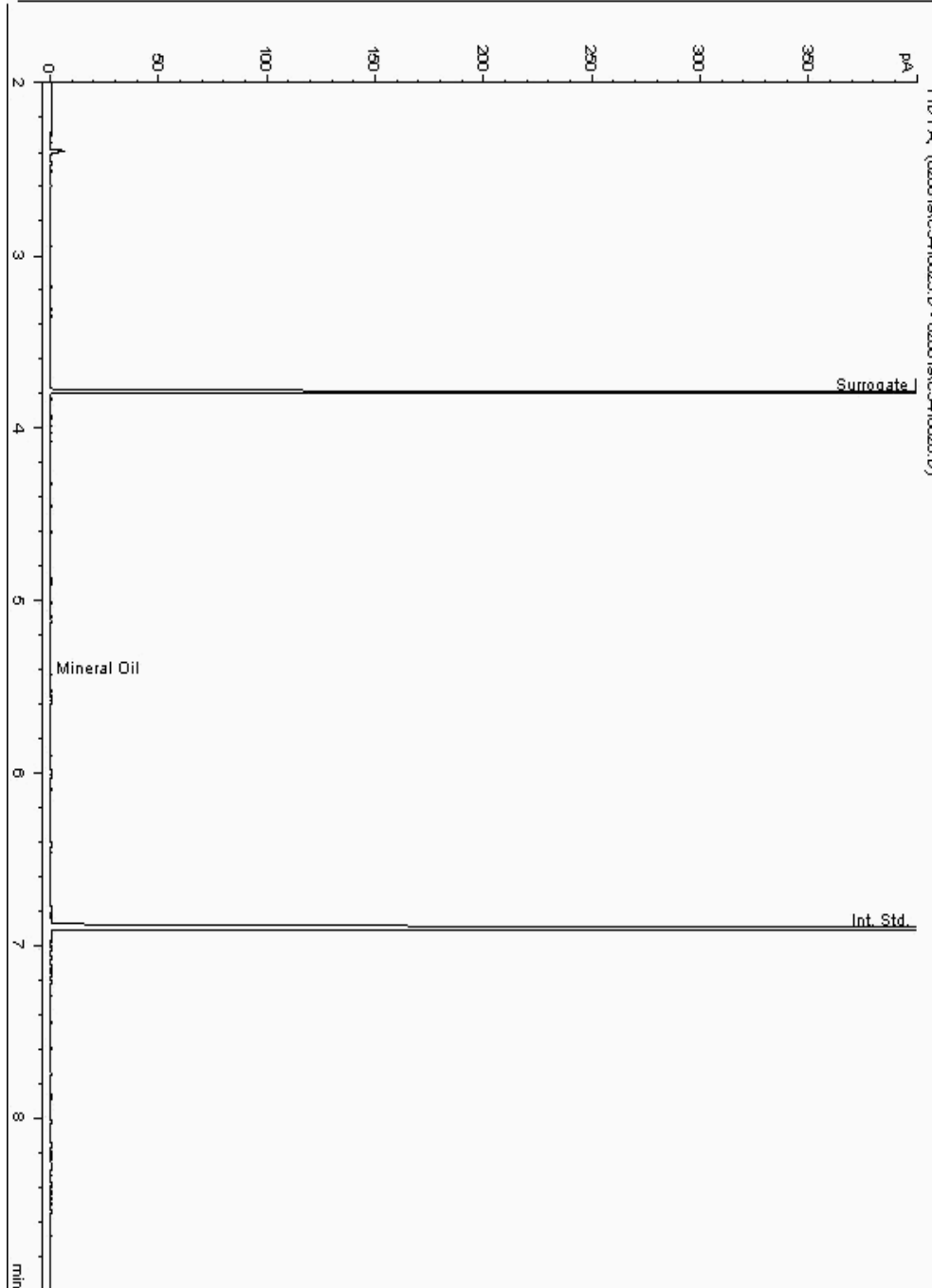
Analysis: Mineral Oil
19271676

Sample No :
Sample ID : BH248

19,271,676 Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090720-
Date Acquired : 06/02/2019 15:22:48 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

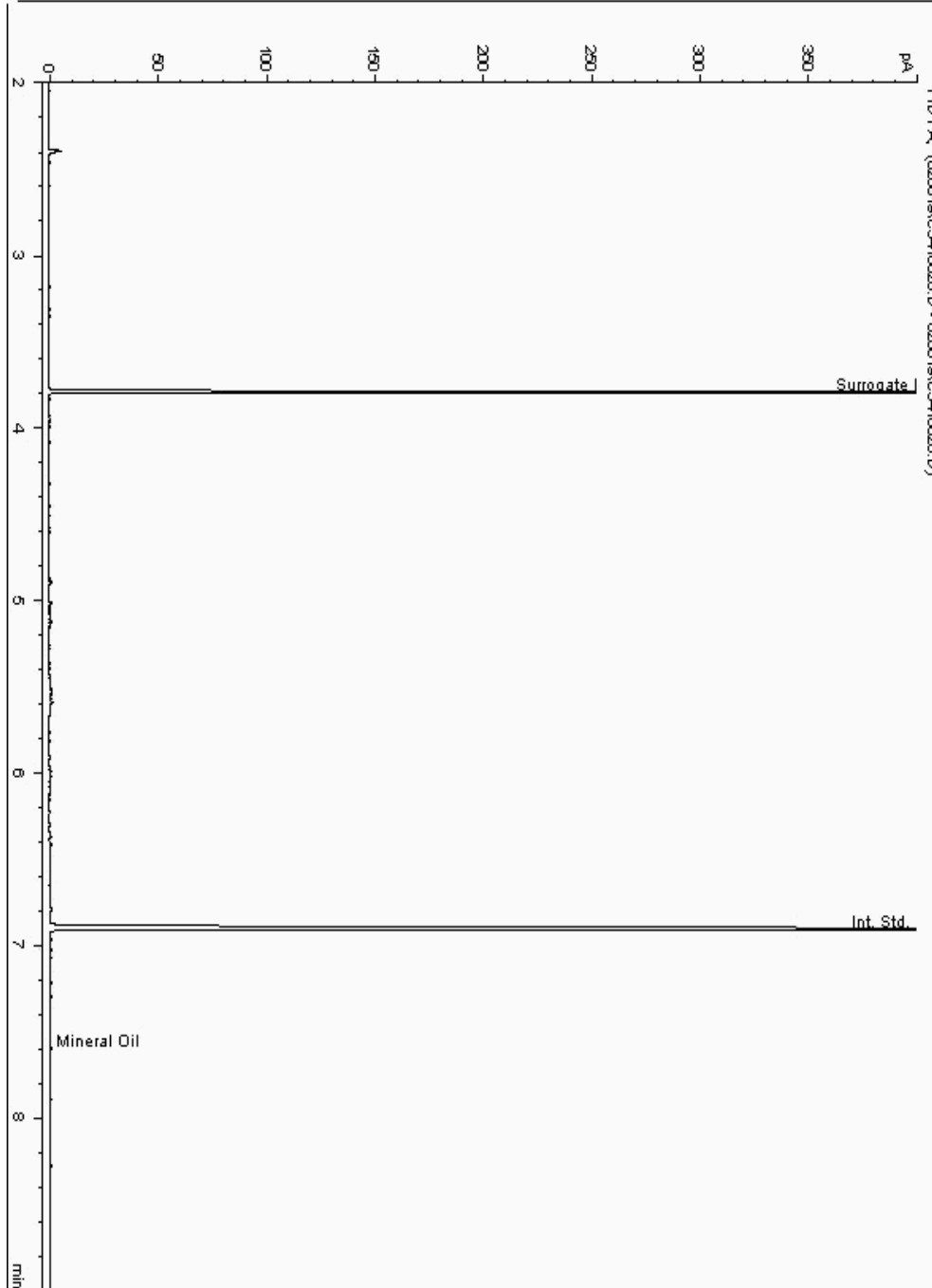
Analysis: Mineral Oil
19271720

Sample No :
Sample ID : BH248

19,271,720Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090669-
Date Acquired : 07/02/2019 07:53:33 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

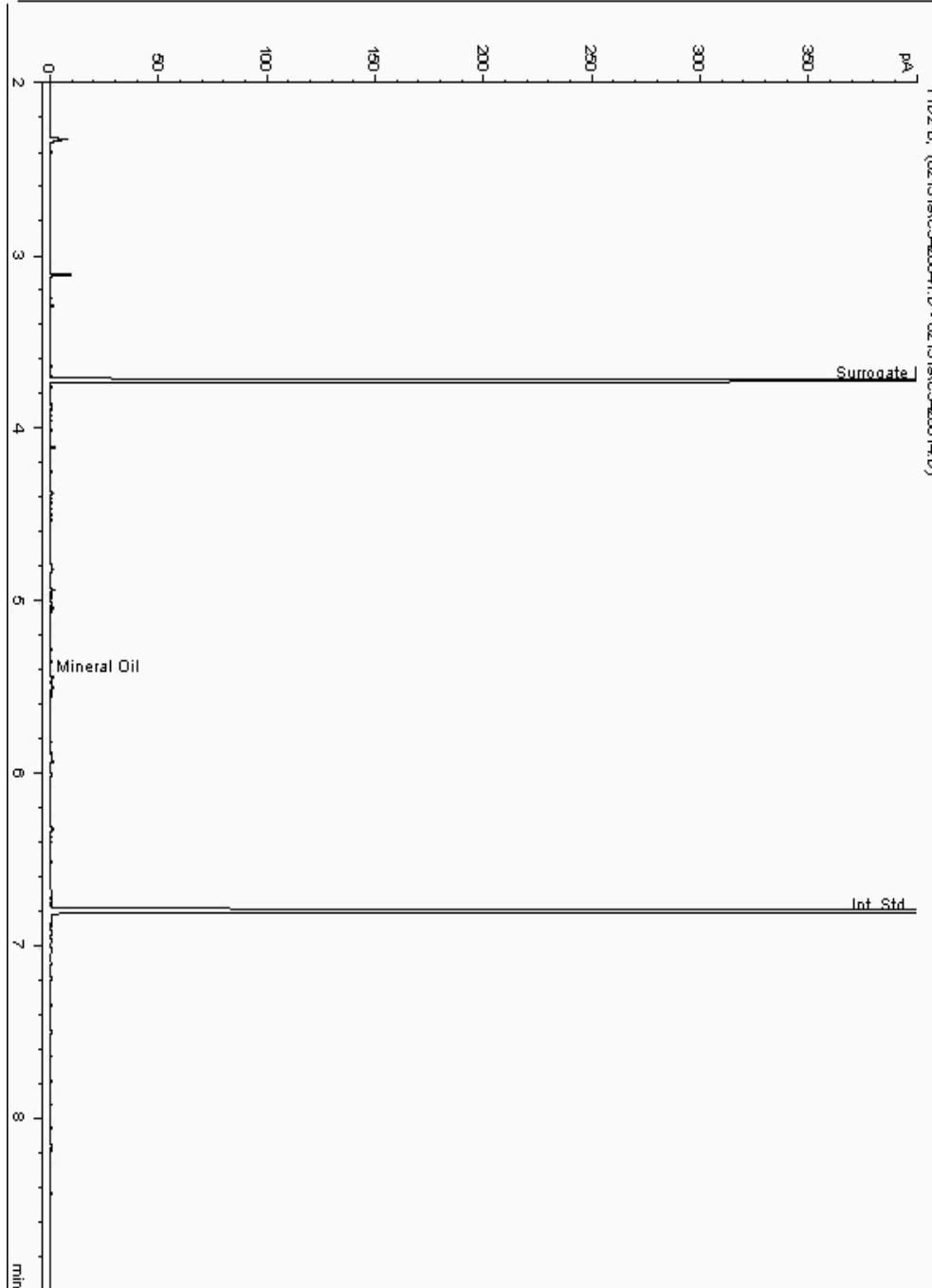
Analysis: Mineral Oil
19313418

Sample No :
Sample ID : BH249

19,313,418 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109932-
Date Acquired : 13/02/2019 19:37:18 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

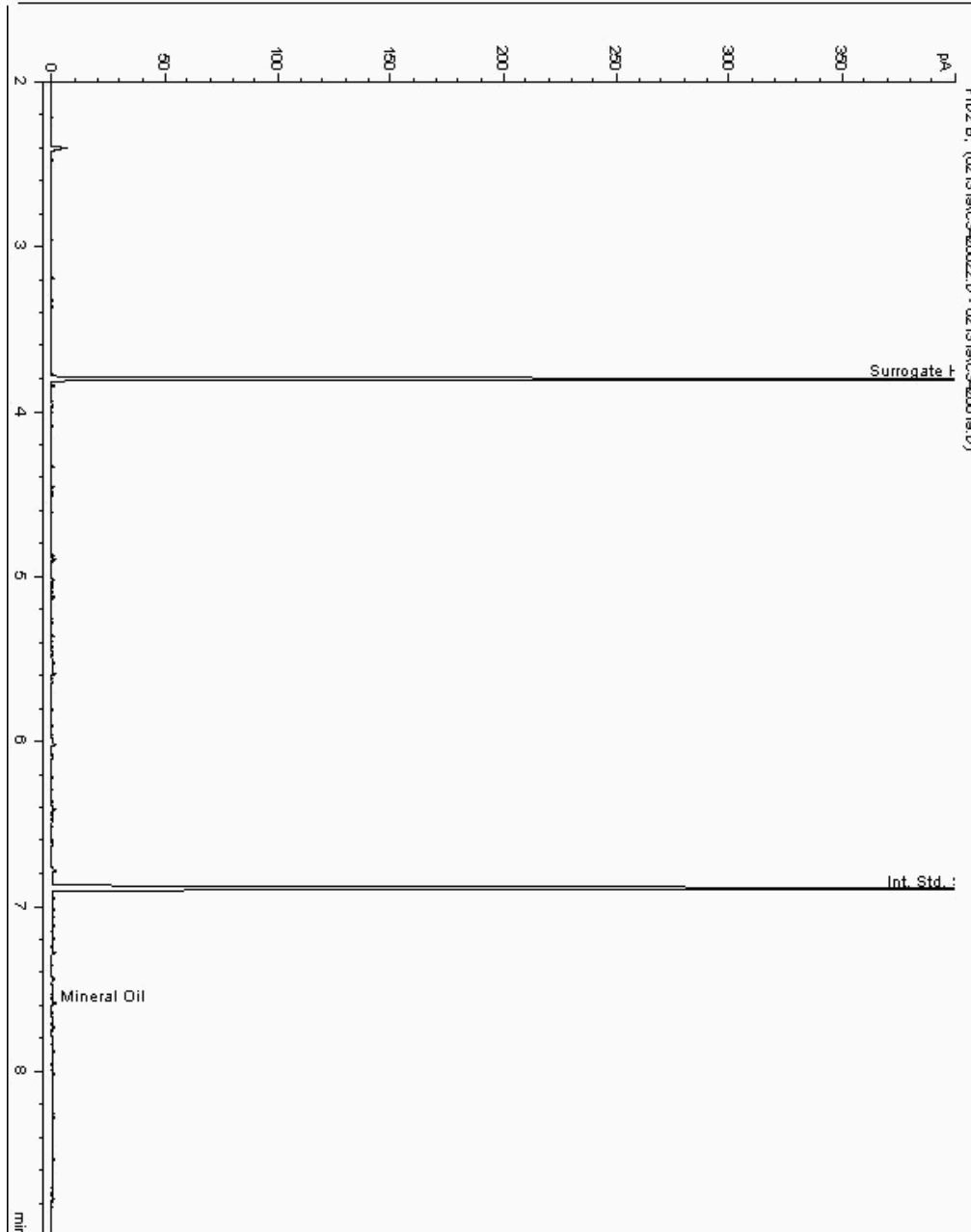
Analysis: Mineral Oil
19313508

Sample No :
Sample ID : BH249

19,313,508Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109881-
Date Acquired : 13/02/19 15:01:40 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

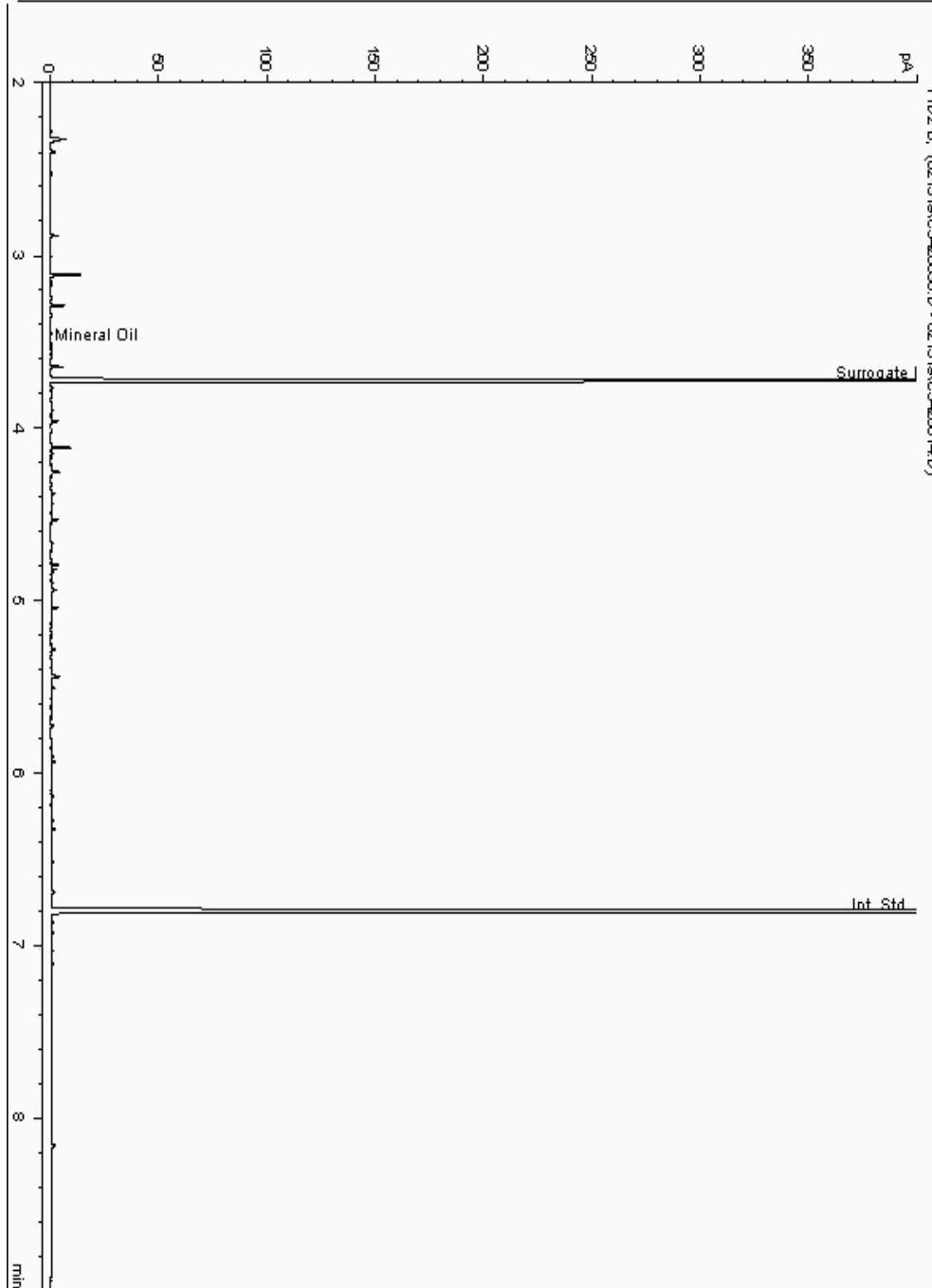
Analysis: Mineral Oil
19313651

Sample No :
Sample ID : BH249

19,313,651 Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109733-
Date Acquired : 13/02/2019 18:10:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

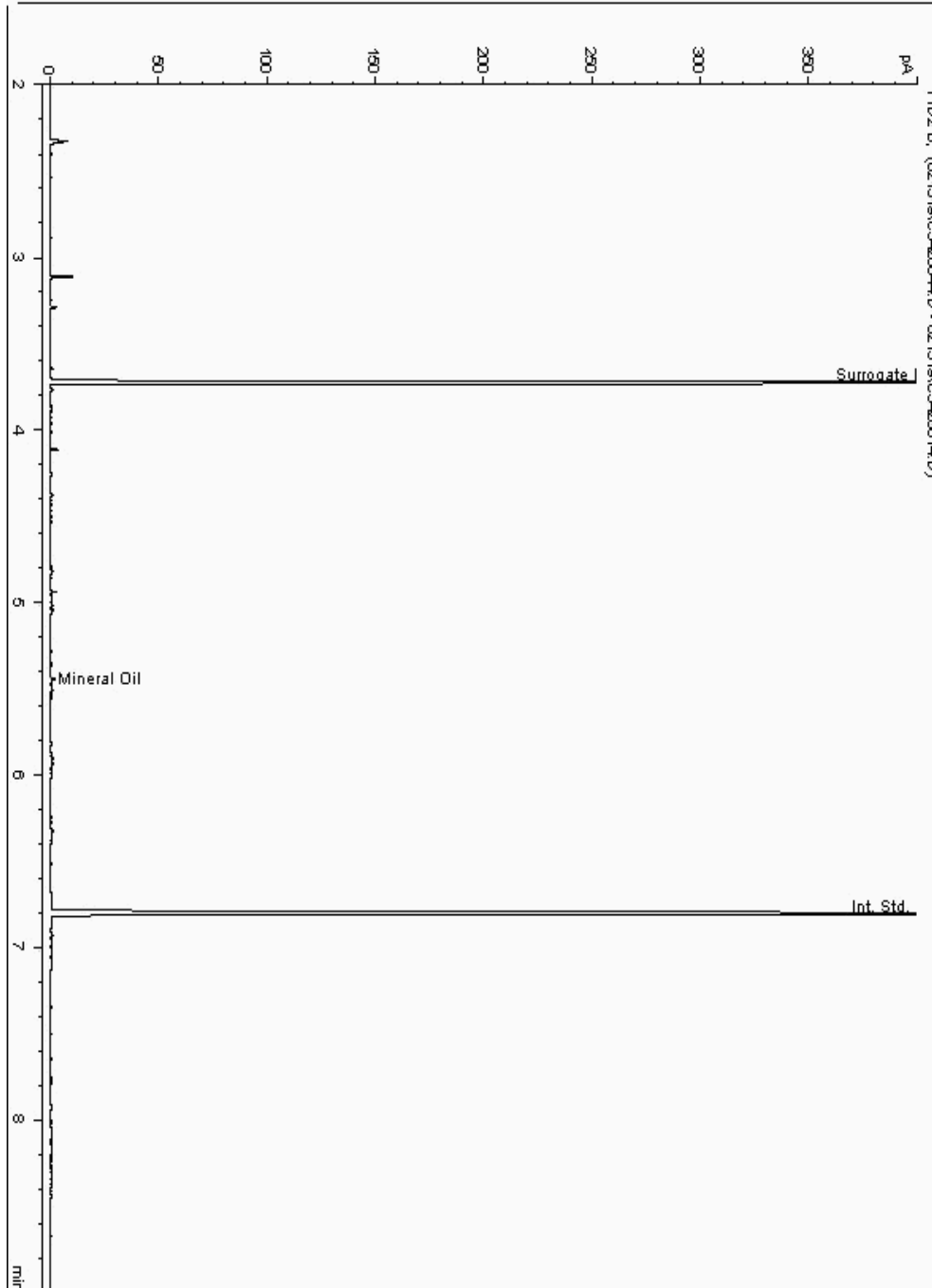
Analysis: Mineral Oil
19313709

Sample No :
Sample ID : BH249

19,313,709 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110194-
Date Acquired : 13/02/2019 20:38:34 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

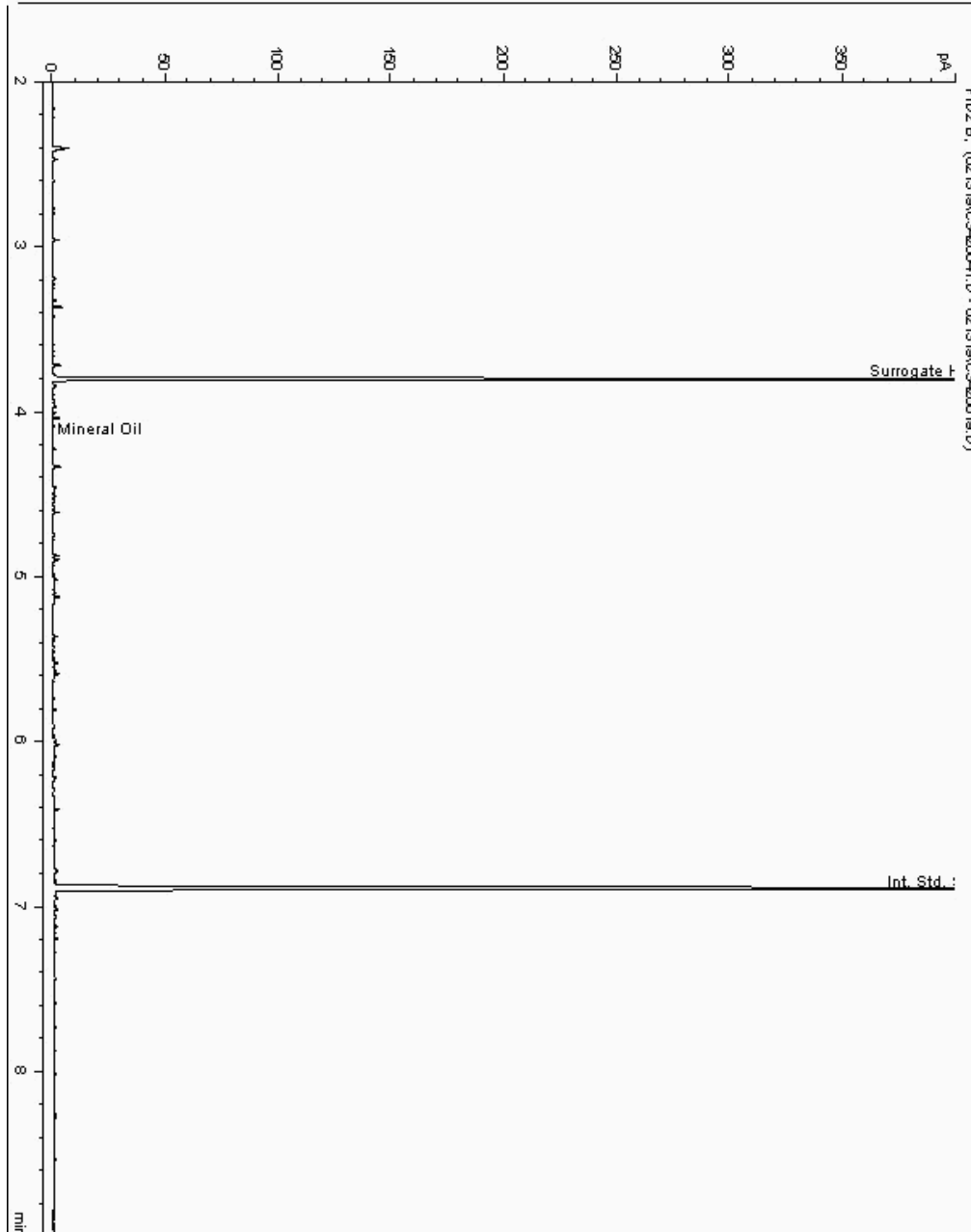
Analysis: Mineral Oil
19313807

Sample No :
Sample ID : BH249

19,313,807Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110261-
Date Acquired : 13/02/19 21:01:12 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

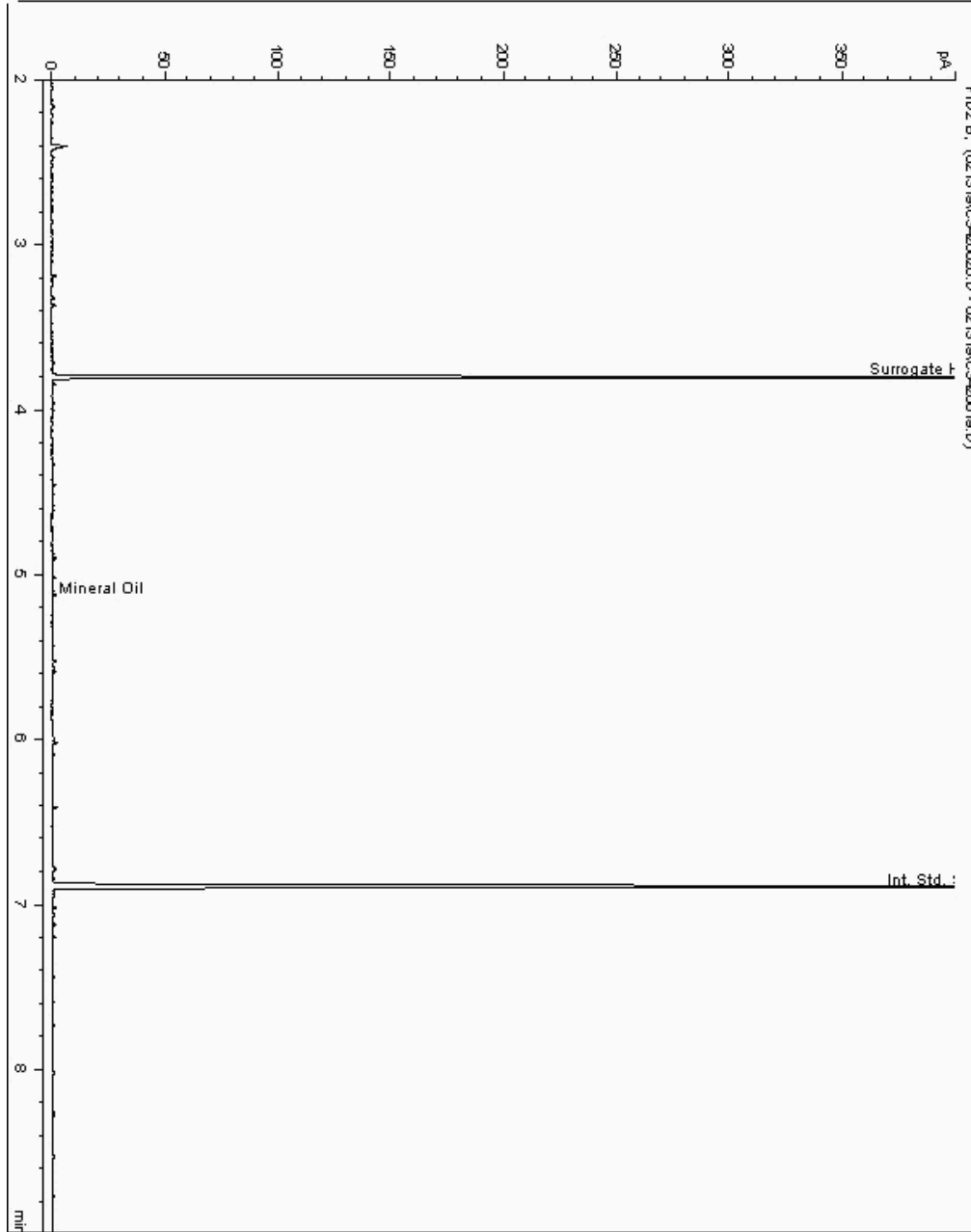
Analysis: Mineral Oil
19313924

Sample No :
Sample ID : BH249

19,313,924Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110029-
Date Acquired : 13/02/19 16:14:44 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

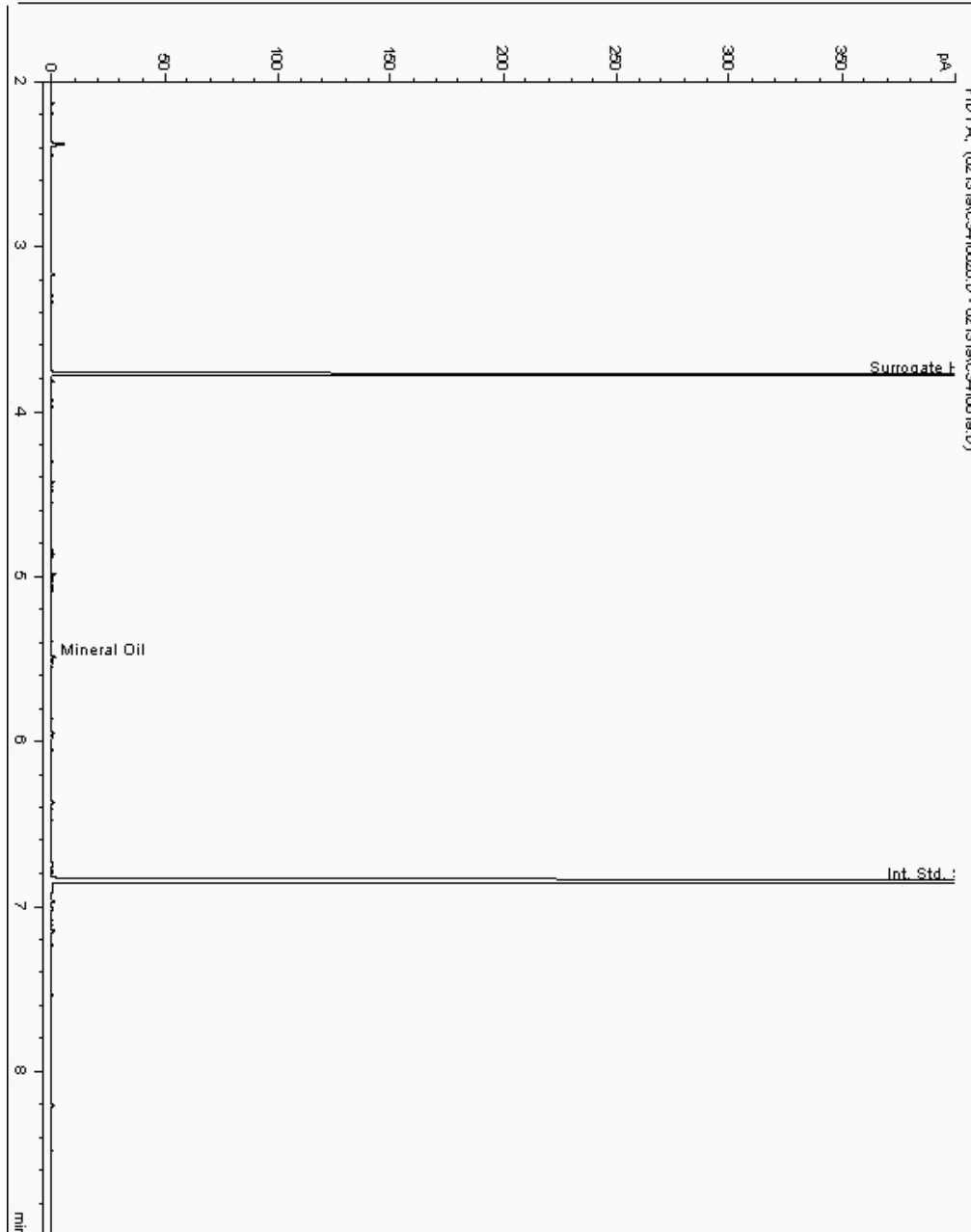
Analysis: Mineral Oil
19314024

Sample No :
Sample ID : BH249

19,314,024 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109957-
Date Acquired : 13/02/19 16:14:44 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

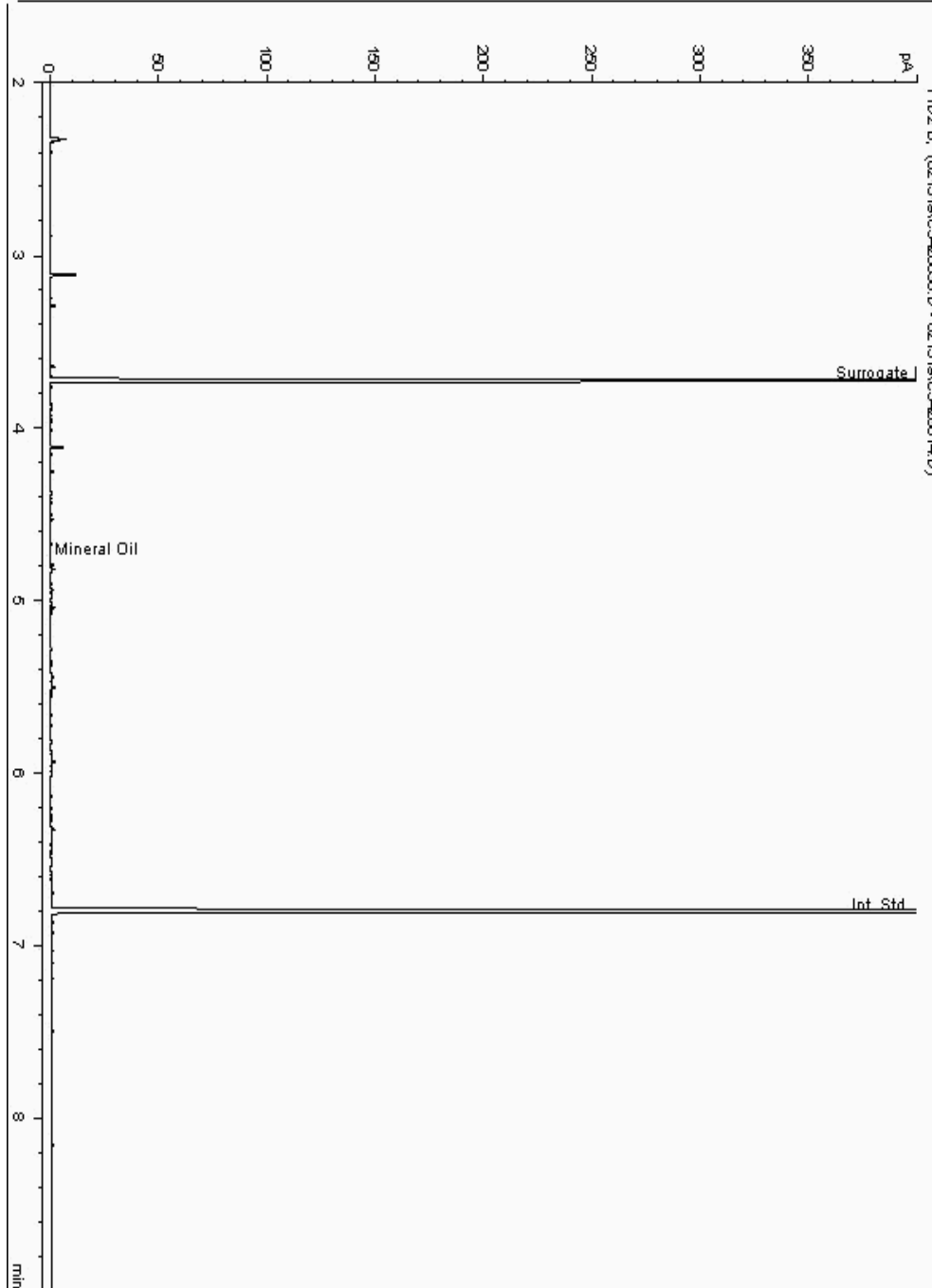
Analysis: Mineral Oil
19314077

Sample No :
Sample ID : BH249

19,314,077Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109757-
Date Acquired : 13/02/2019 18:44:00 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

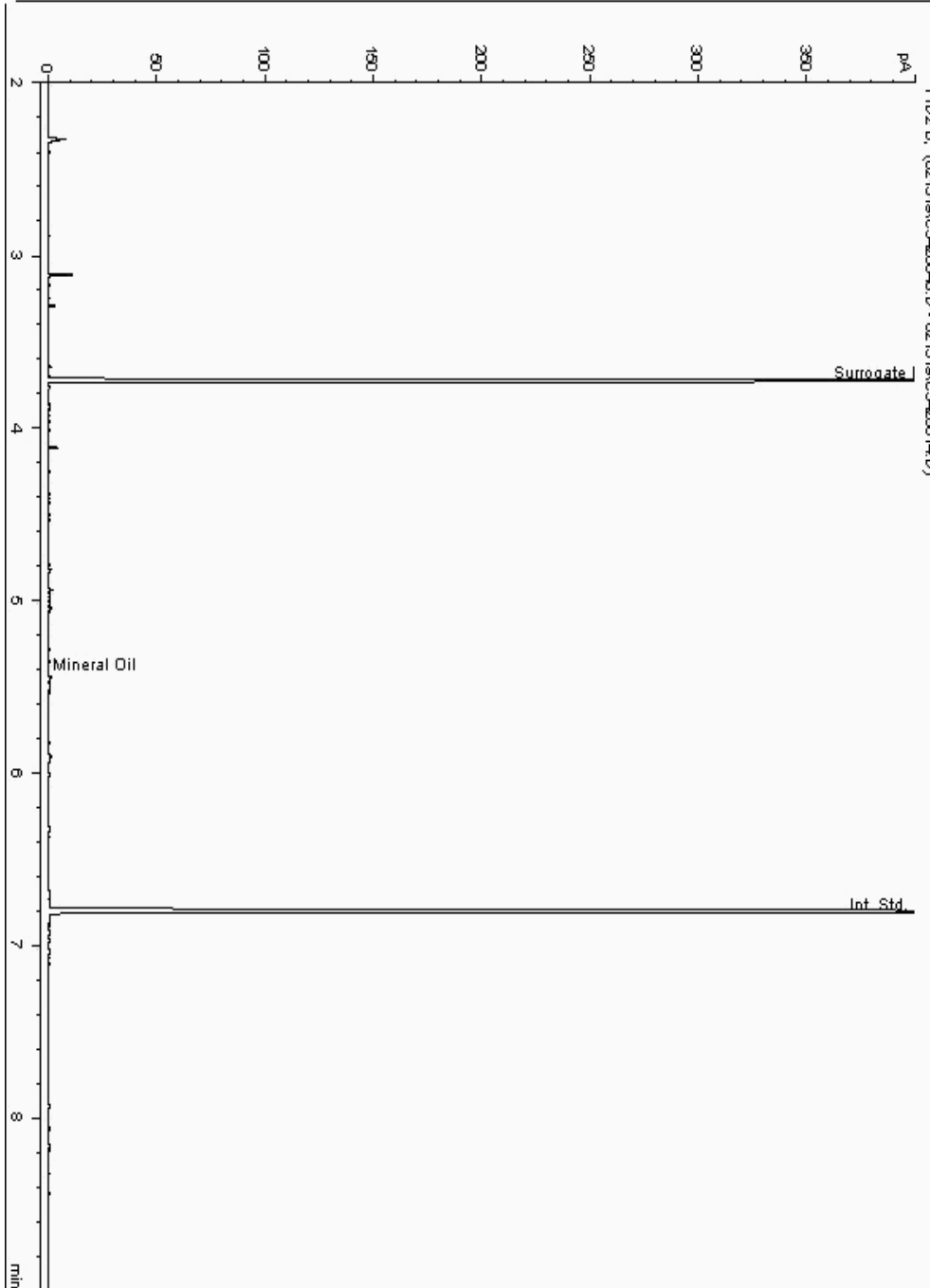
Analysis: Mineral Oil
19314130

Sample No :
Sample ID : BH249

19,314,130Depth :9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110094-
Date Acquired : 13/02/2019 20:18:04 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

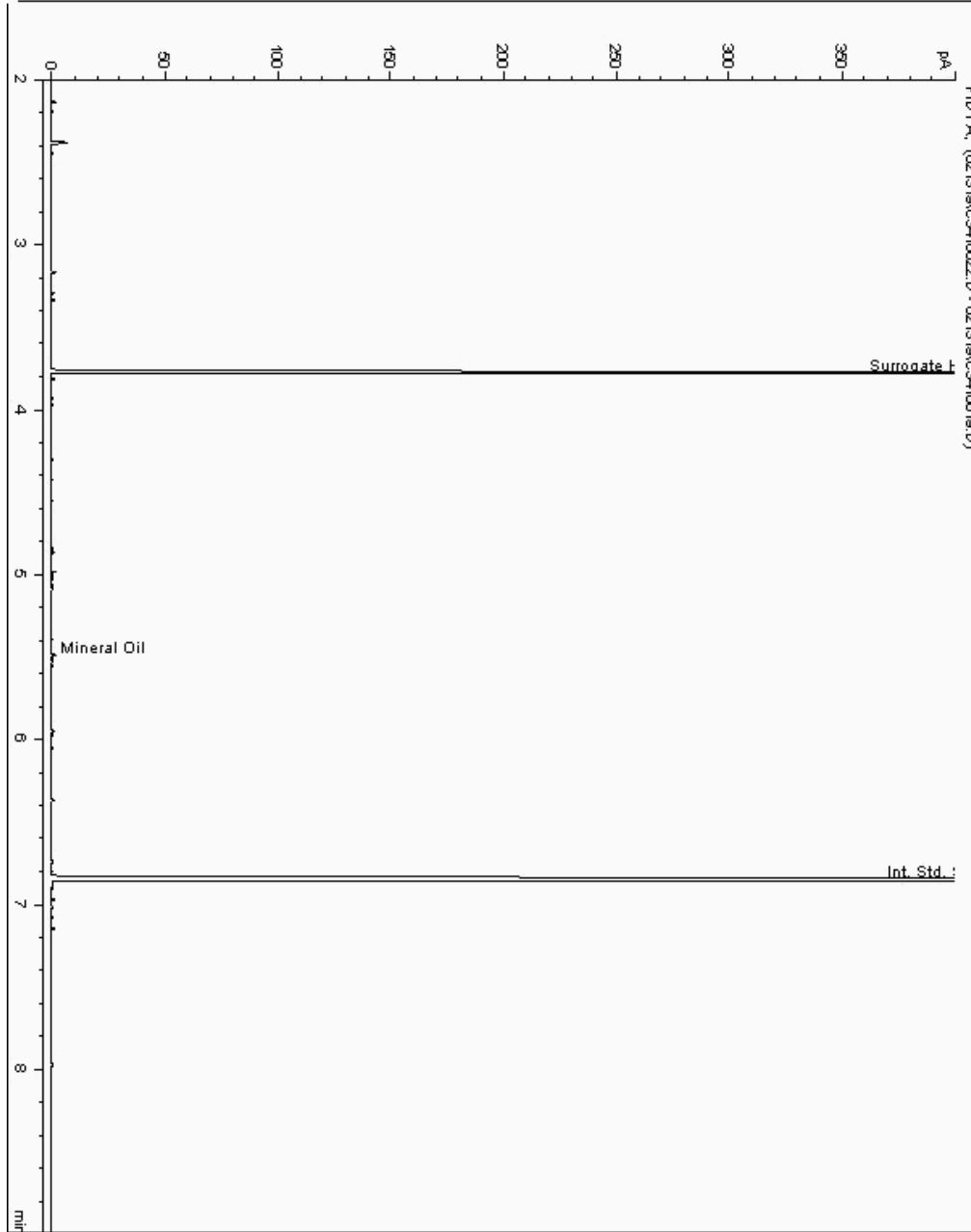
Analysis: Mineral Oil
19314279

Sample No :
Sample ID : BH249

19,314,279 Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110137-
Date Acquired : 13/02/19 15:01:39 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

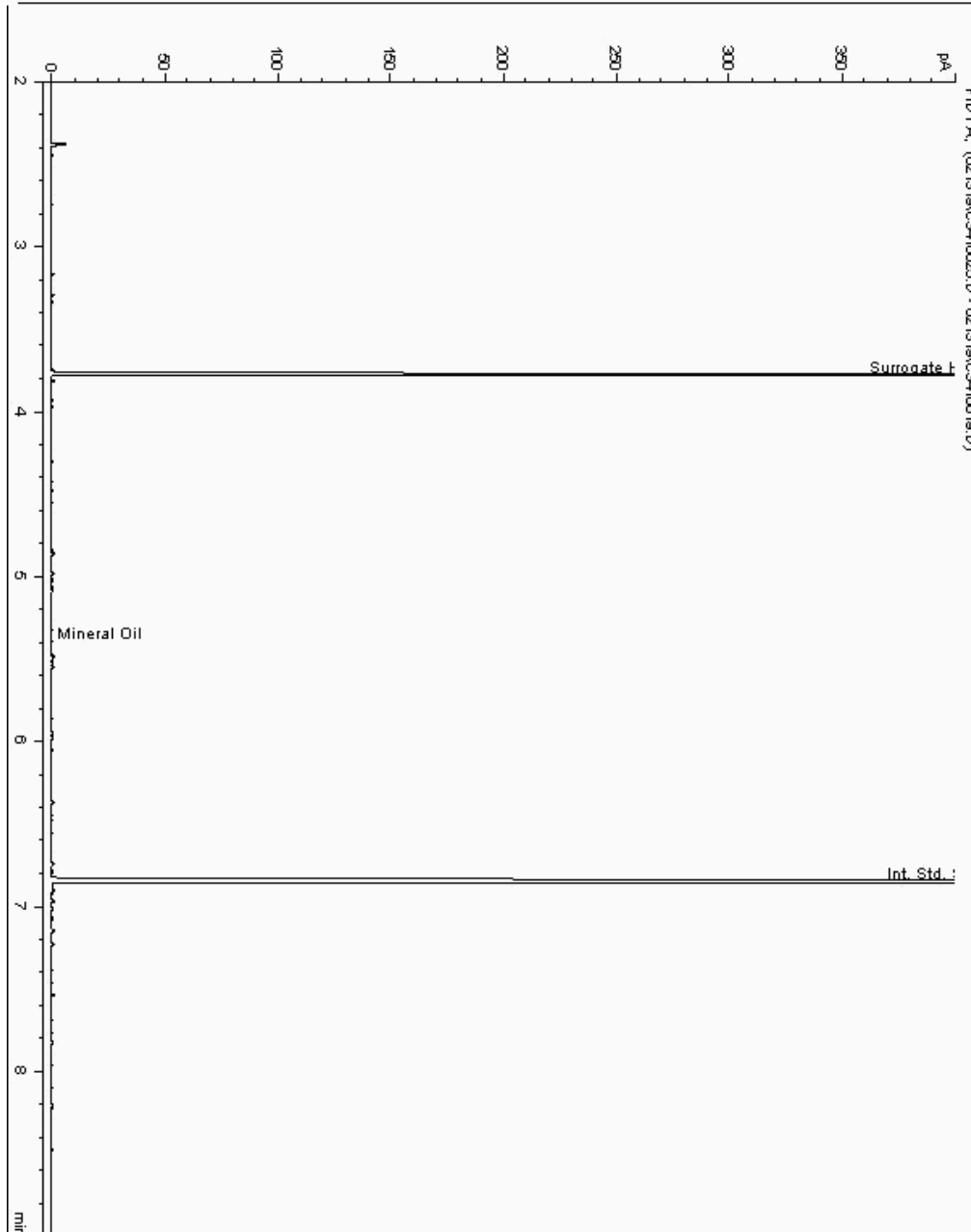
Analysis: Mineral Oil
19314362

Sample No :
Sample ID : BH249

19,314,362 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109825-
Date Acquired : 13/02/19 15:54:24 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

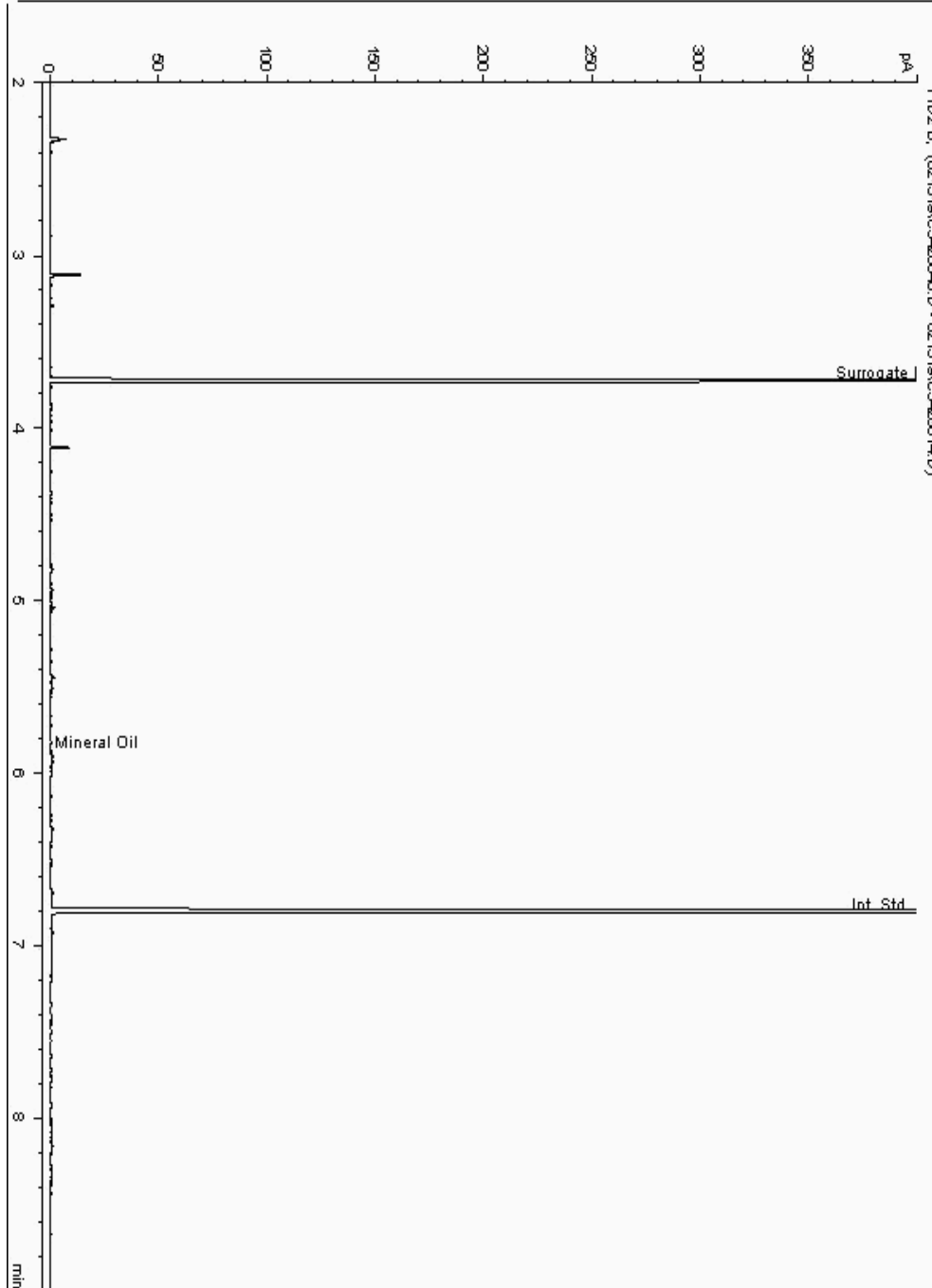
Analysis: Mineral Oil
19314451

Sample No :
Sample ID : BH249

19,314,451 Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18109690-
Date Acquired : 13/02/2019 19:17:11 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

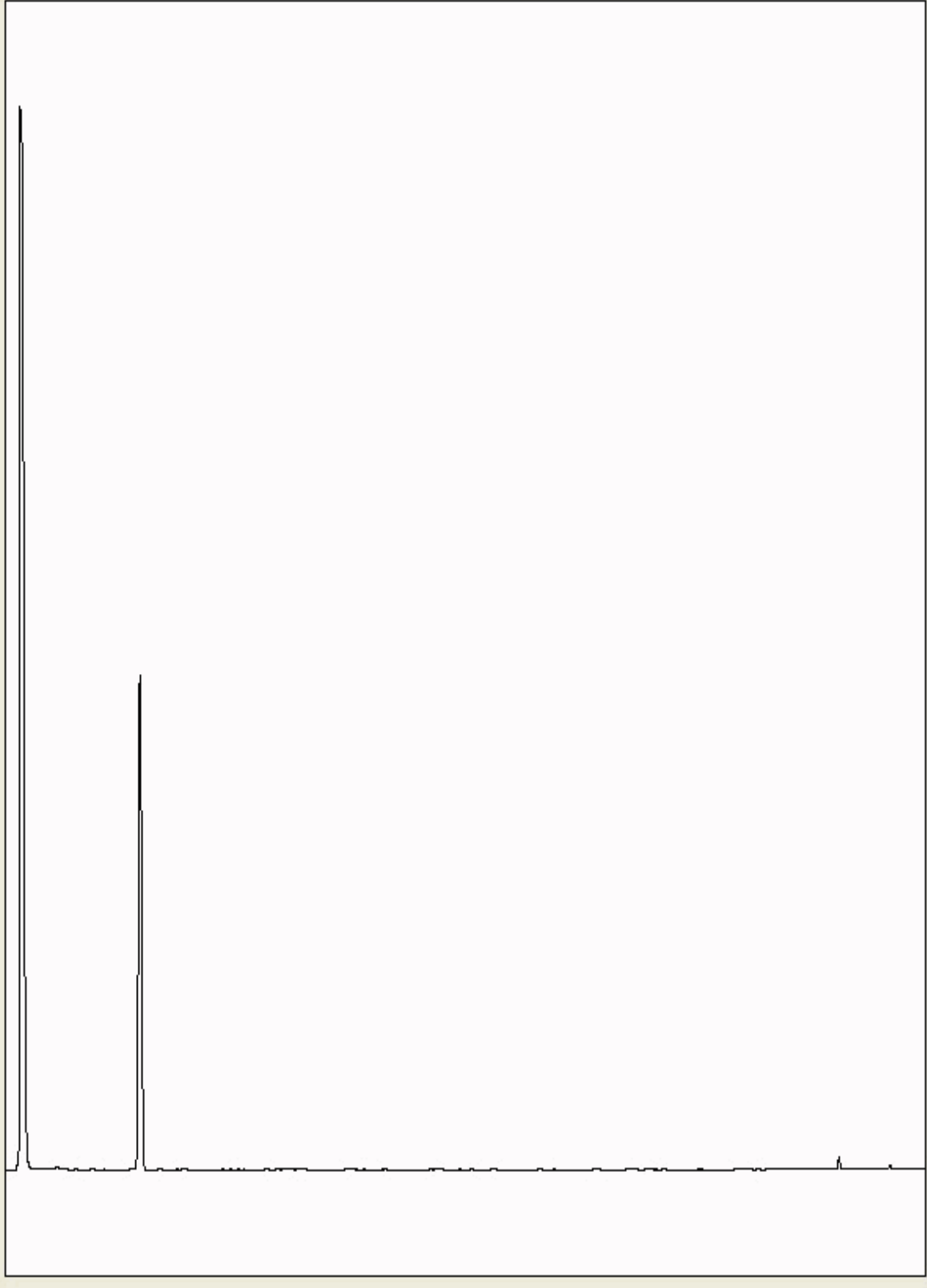
Chromatogram

Analysis: GRO by GC-FID (S)
19276525

Sample No :
Sample ID : BH248

19,276,525 **Depth :** 0.50 - 1.00

19276525_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

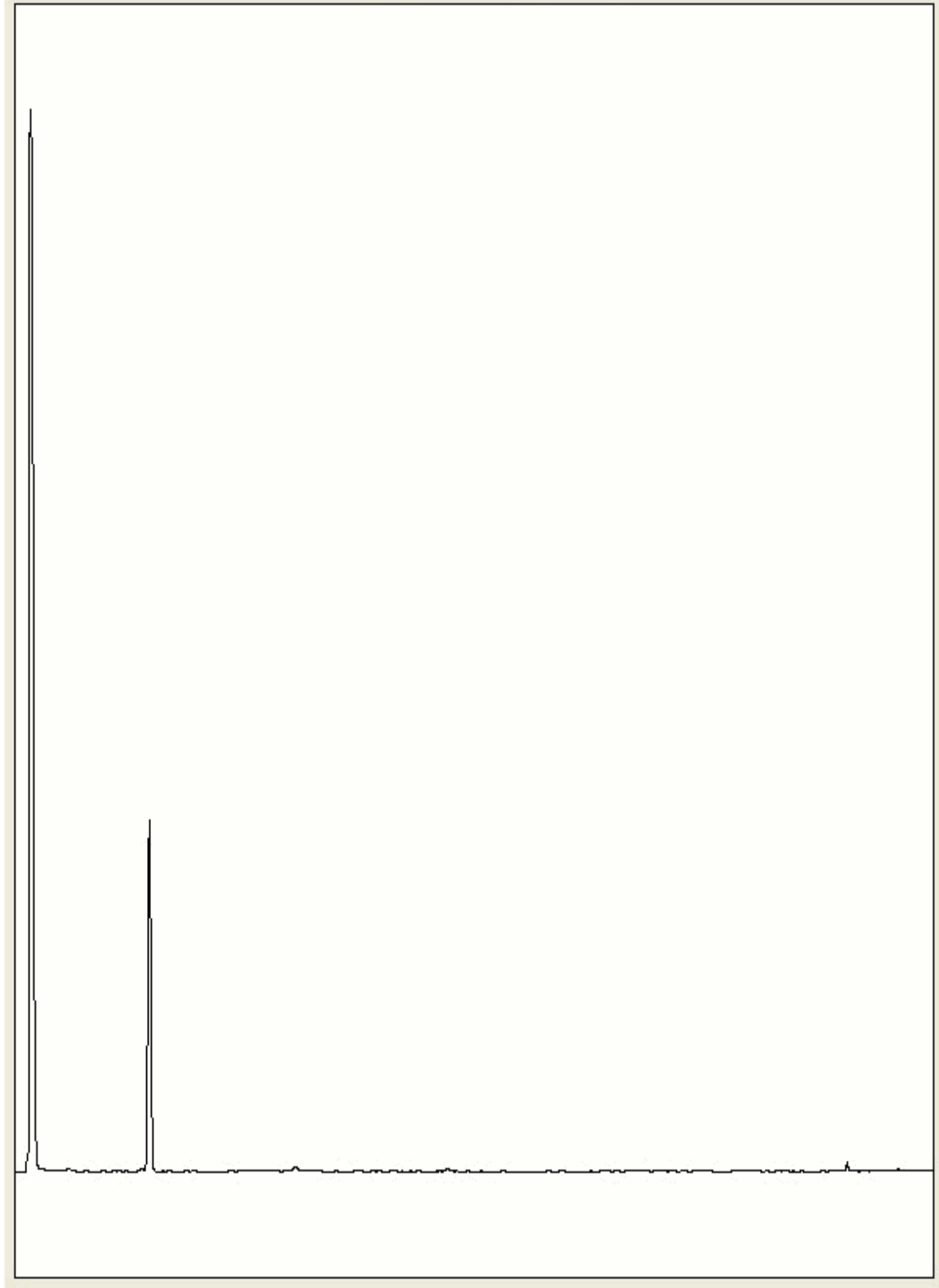
Chromatogram

Analysis: GRO by GC-FID (S)
19276546

Sample No :
Sample ID : BH248

19,276,546**Depth :**2.00 - 3.00

19276546_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

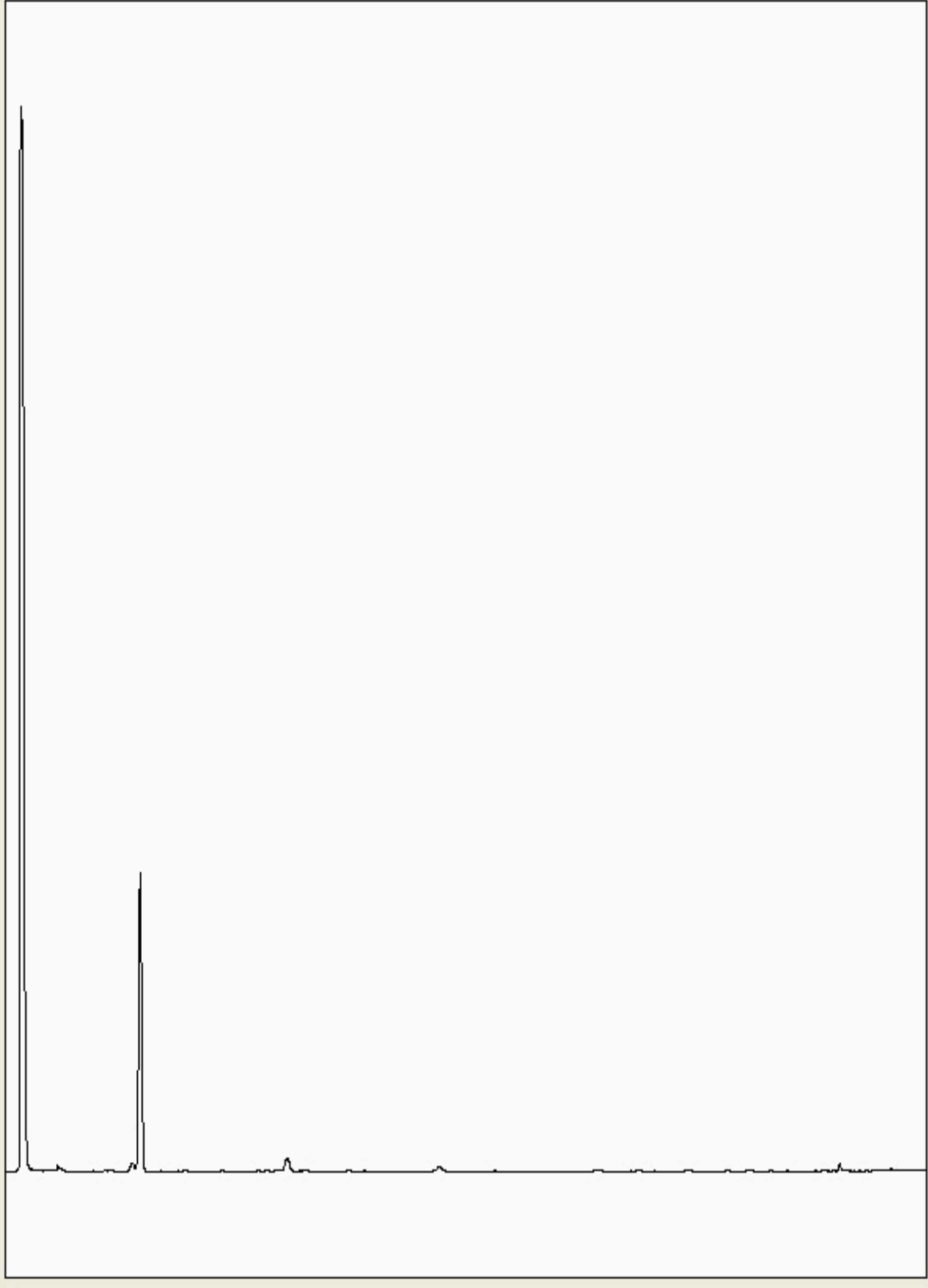
Chromatogram

Analysis: GRO by GC-FID (S)
19276590

Sample No :
Sample ID : BH248

19,276,590 **Depth :** 1.00 - 2.00

19276590_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

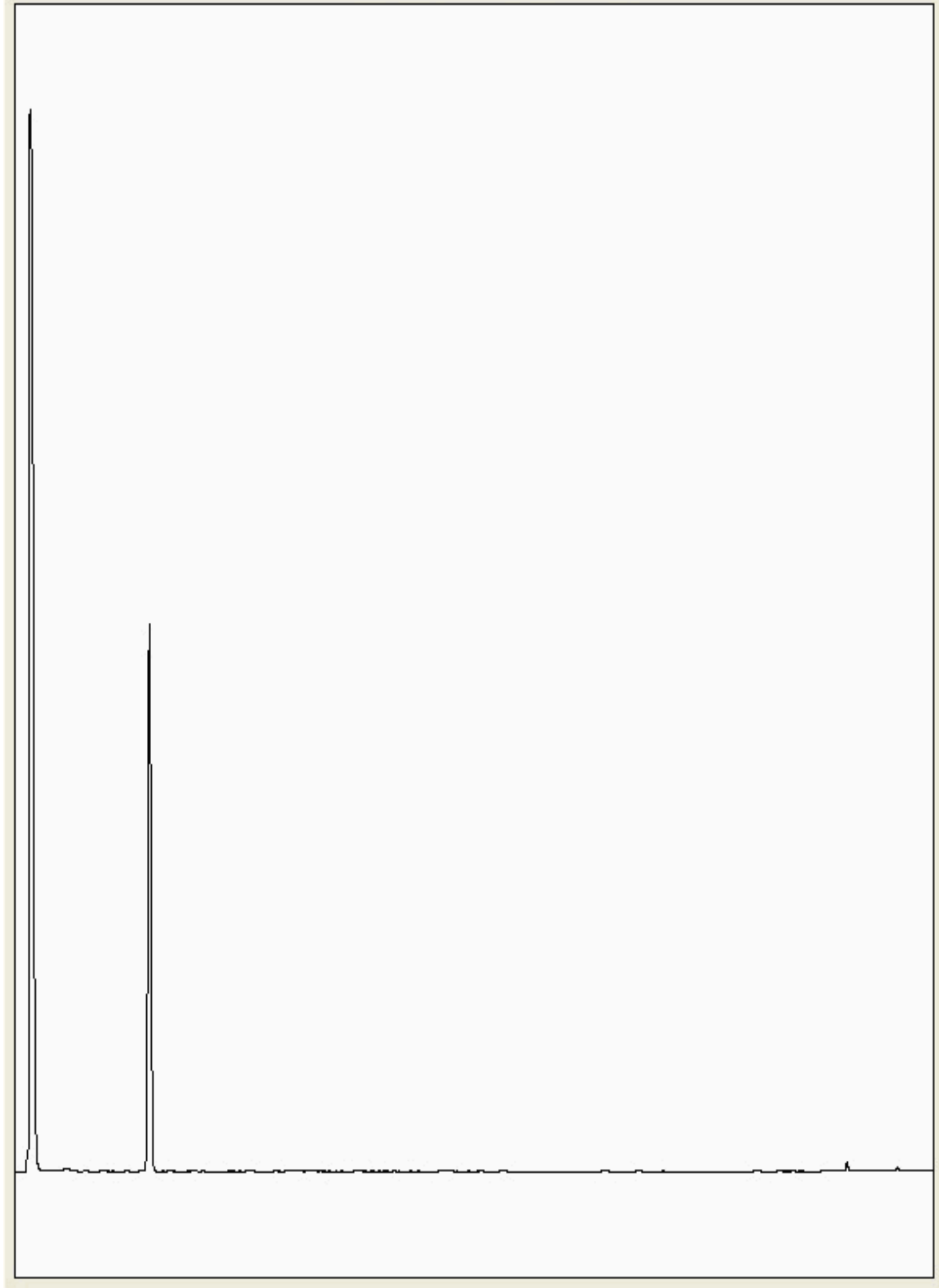
Chromatogram

Analysis: GRO by GC-FID (S)
19276654

Sample No :
Sample ID : BH248

19,276,654 **Depth :** 7.00 - 8.00

19276654_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

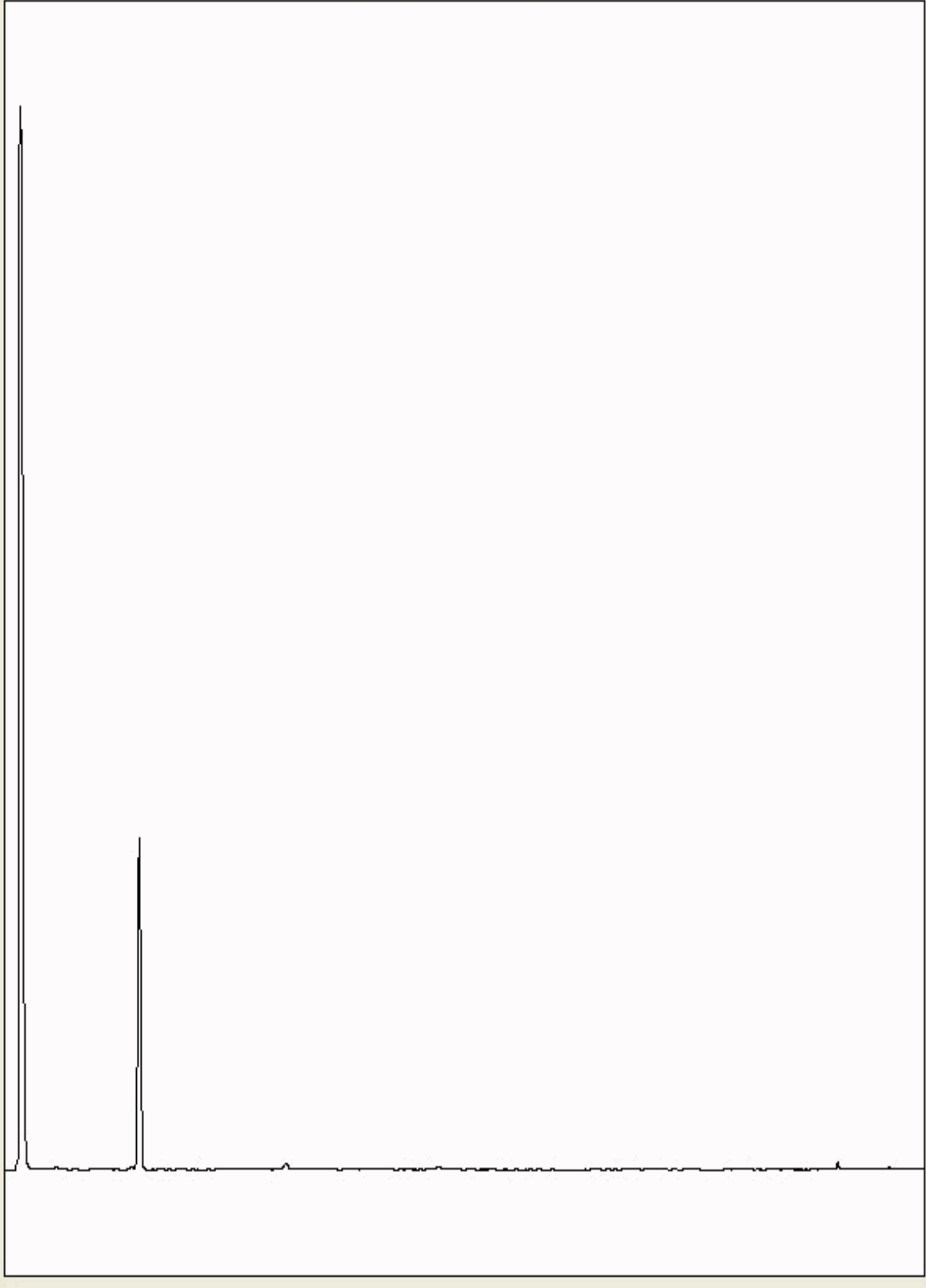
Chromatogram

Analysis: GRO by GC-FID (S)
19276674

Sample No :
Sample ID : BH248

19,276,674 **Depth :** 5.00 - 6.00

19276674_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

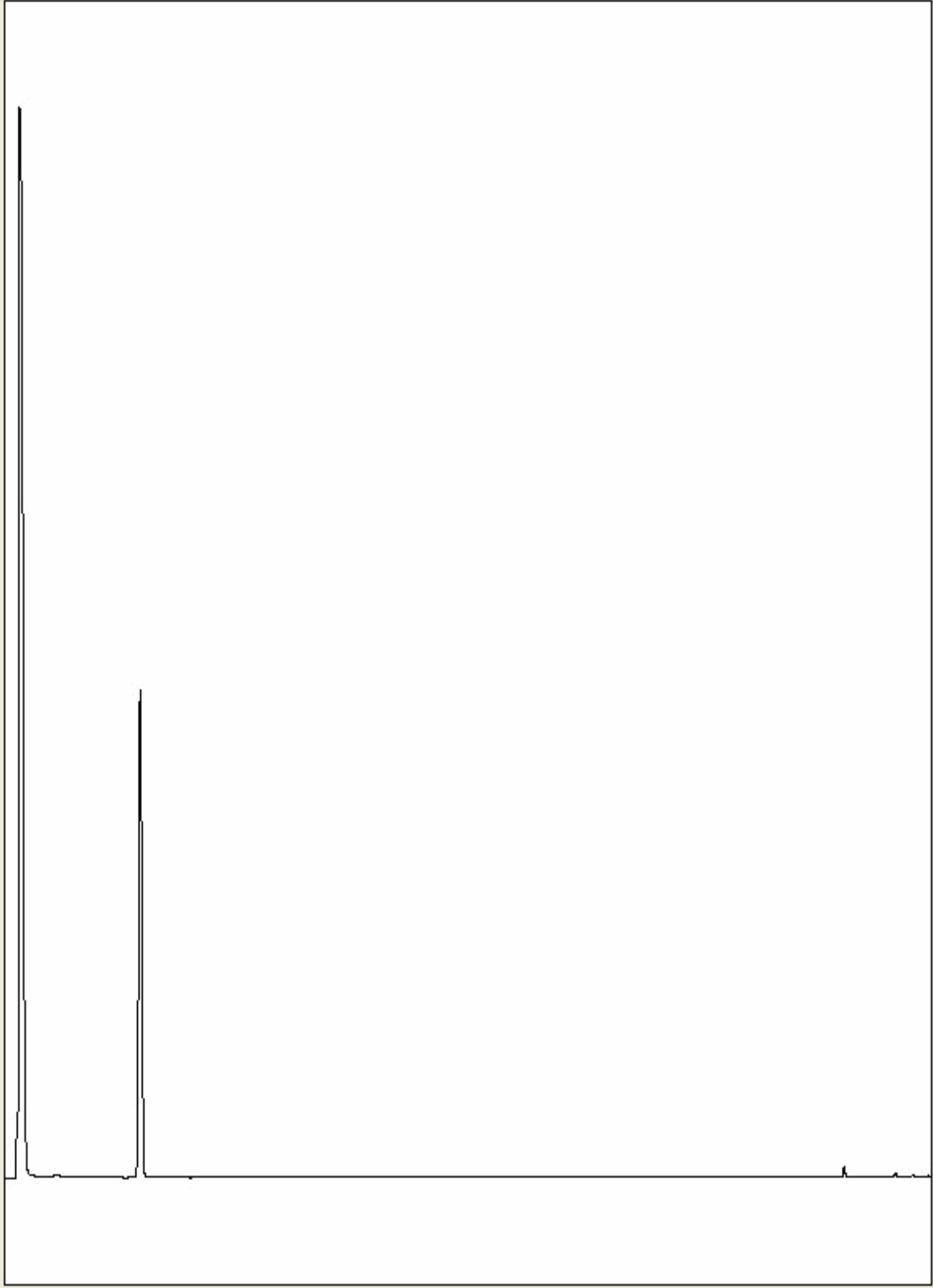
Chromatogram

Analysis: GRO by GC-FID (S)
19276757

Sample No :
Sample ID : BH248

19,276,757Depth :3.00 - 4.00

19276757_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

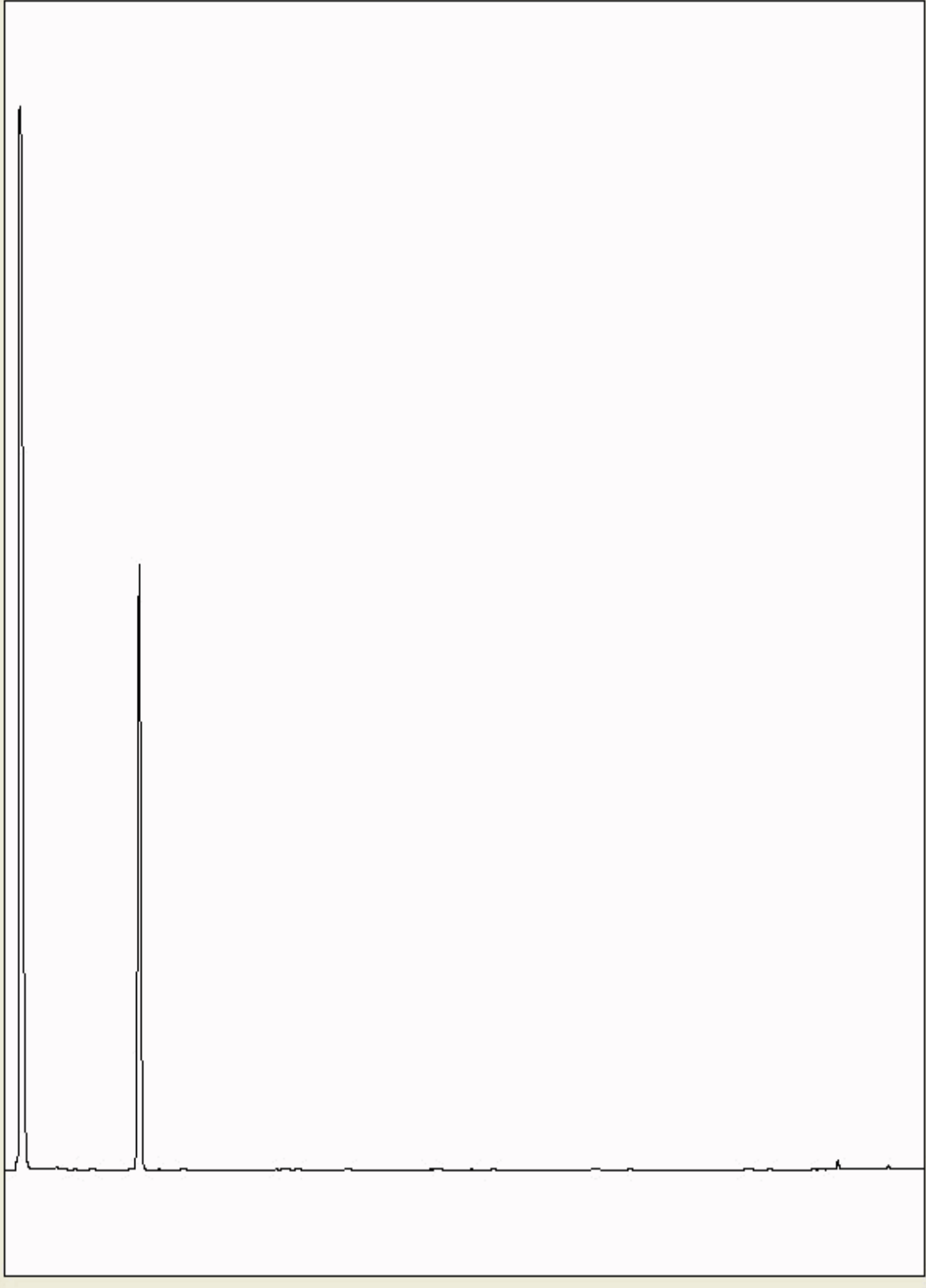
Chromatogram

Analysis: GRO by GC-FID (S)
19276783

Sample No :
Sample ID : BH248

19,276,783 **Depth :** 10.00 - 11.00

19276783_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

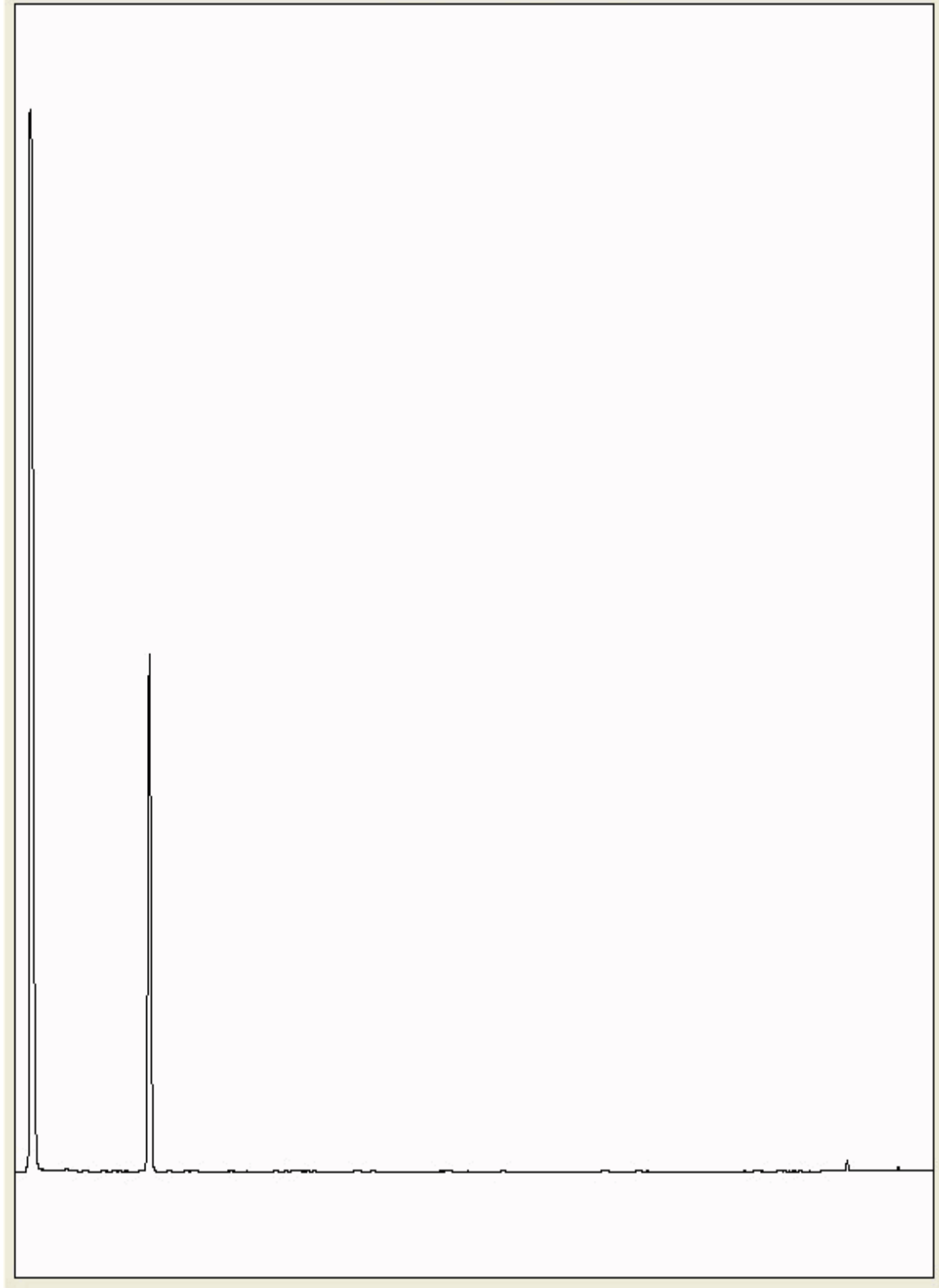
Chromatogram

Analysis: GRO by GC-FID (S)
19277055

Sample No :
Sample ID : BH249

19,277,055 **Depth :** 1.00 - 2.00

19277055_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

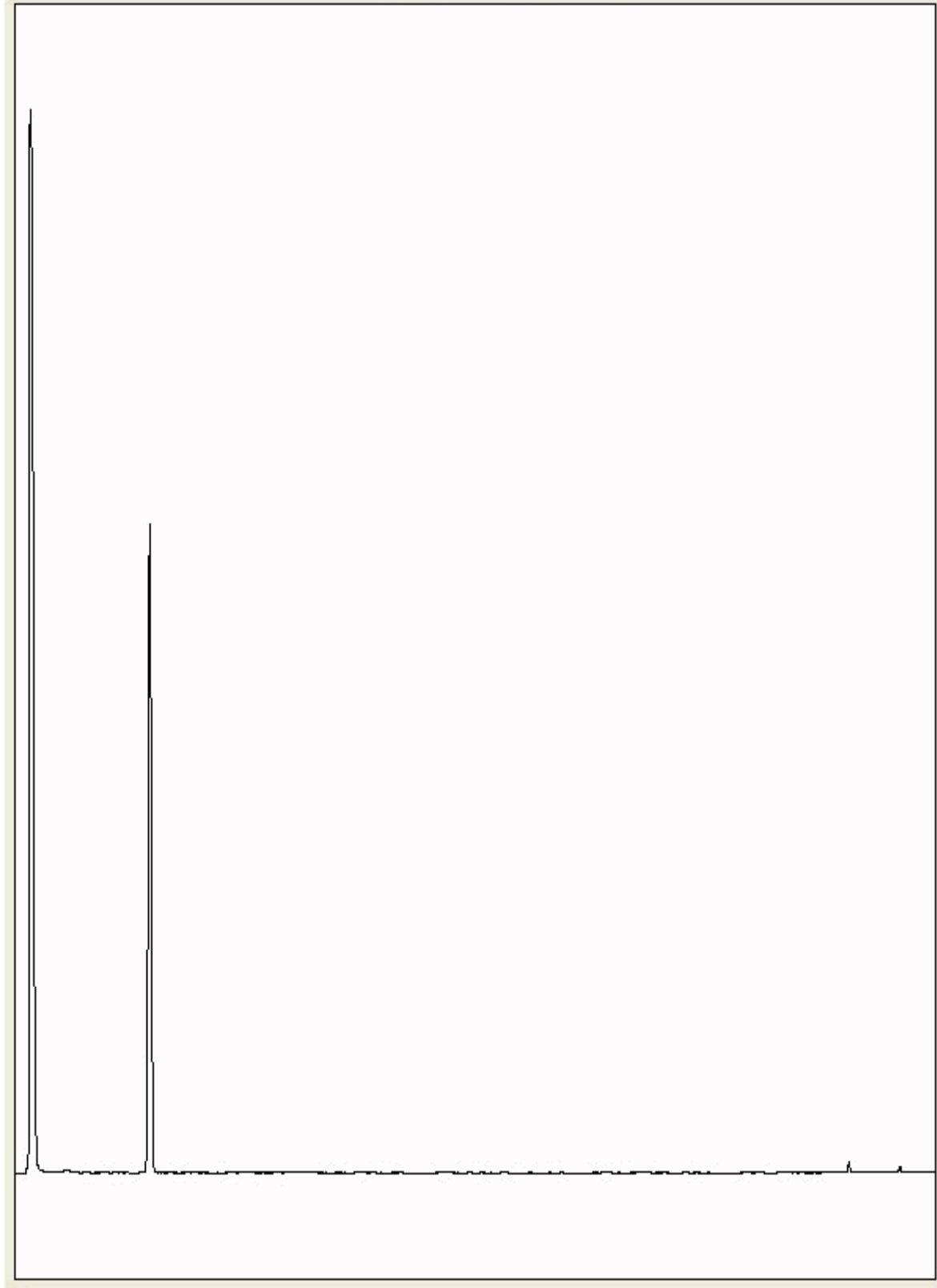
Chromatogram

Analysis: GRO by GC-FID (S)
19277090

Sample No :
Sample ID : BH249

19,277,090Depth :2.00 - 3.00

19277090_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

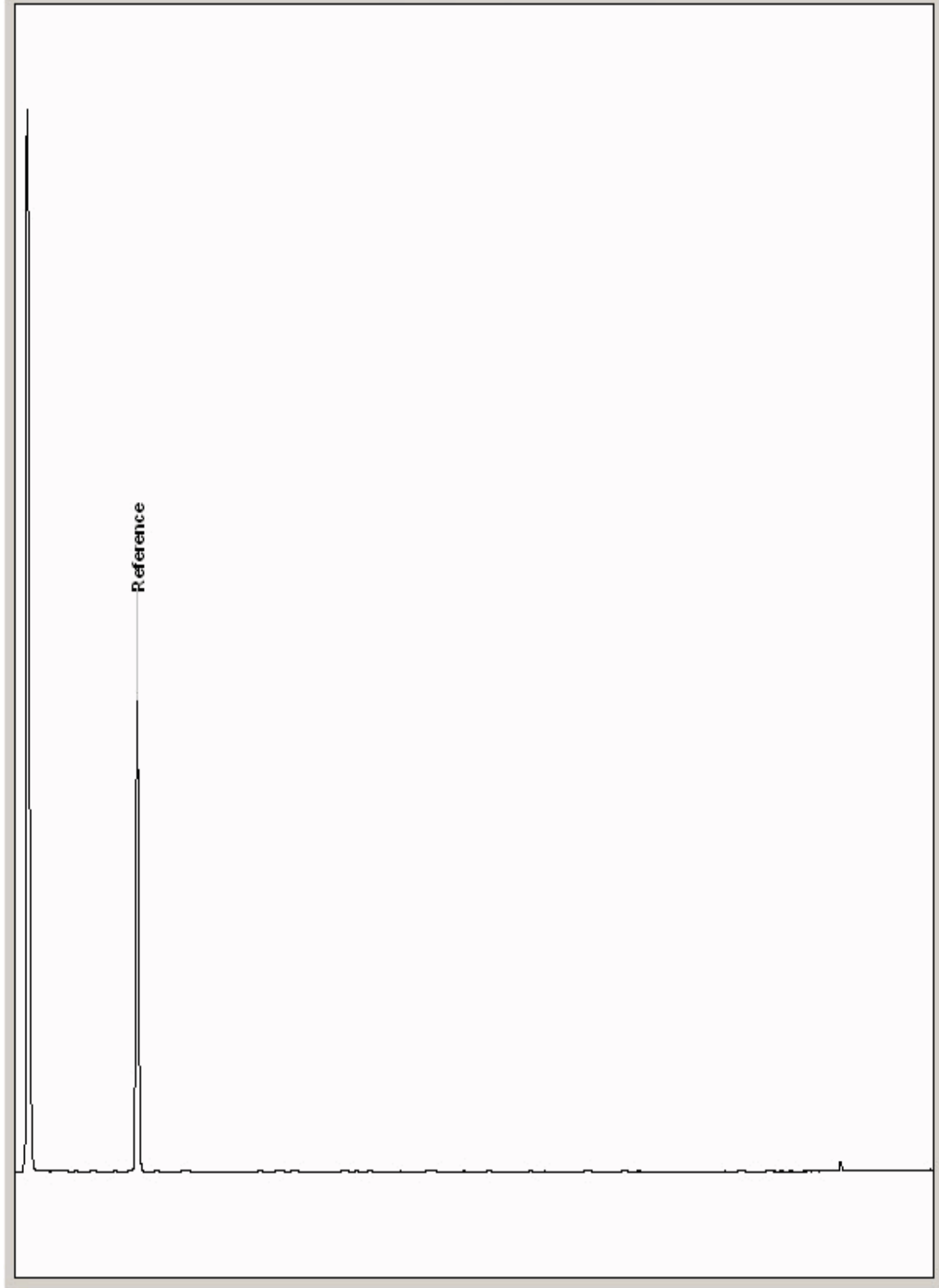
Chromatogram

Analysis: GRO by GC-FID (S)
19283141

Sample No :
Sample ID : BH249

19,283,141 Depth : 9.00 - 10.00

19283141_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

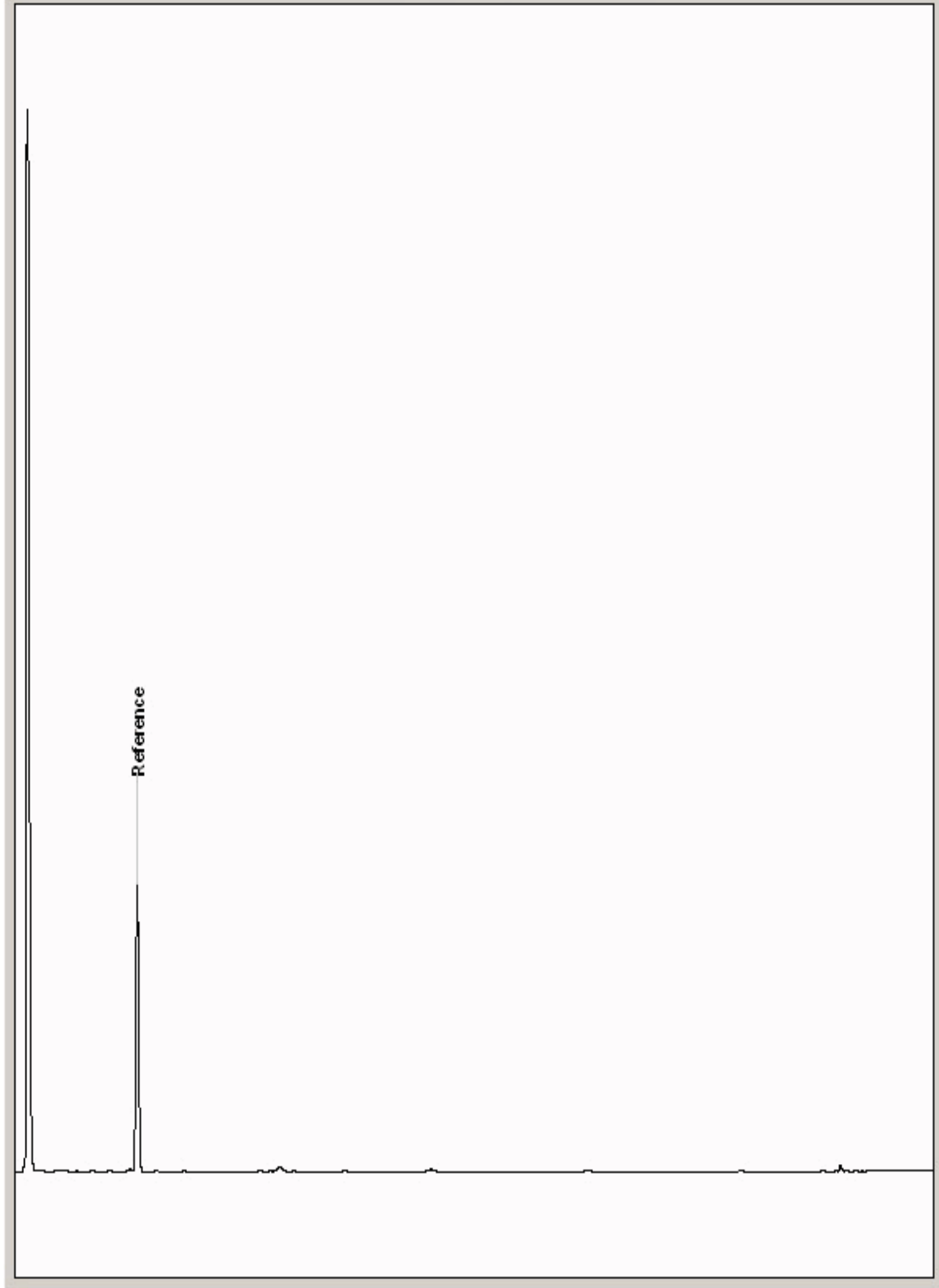
Chromatogram

Analysis: GRO by GC-FID (S)
19283163

Sample No :
Sample ID : BH249

19,283,163Depth :5.00 - 6.00

19283163_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

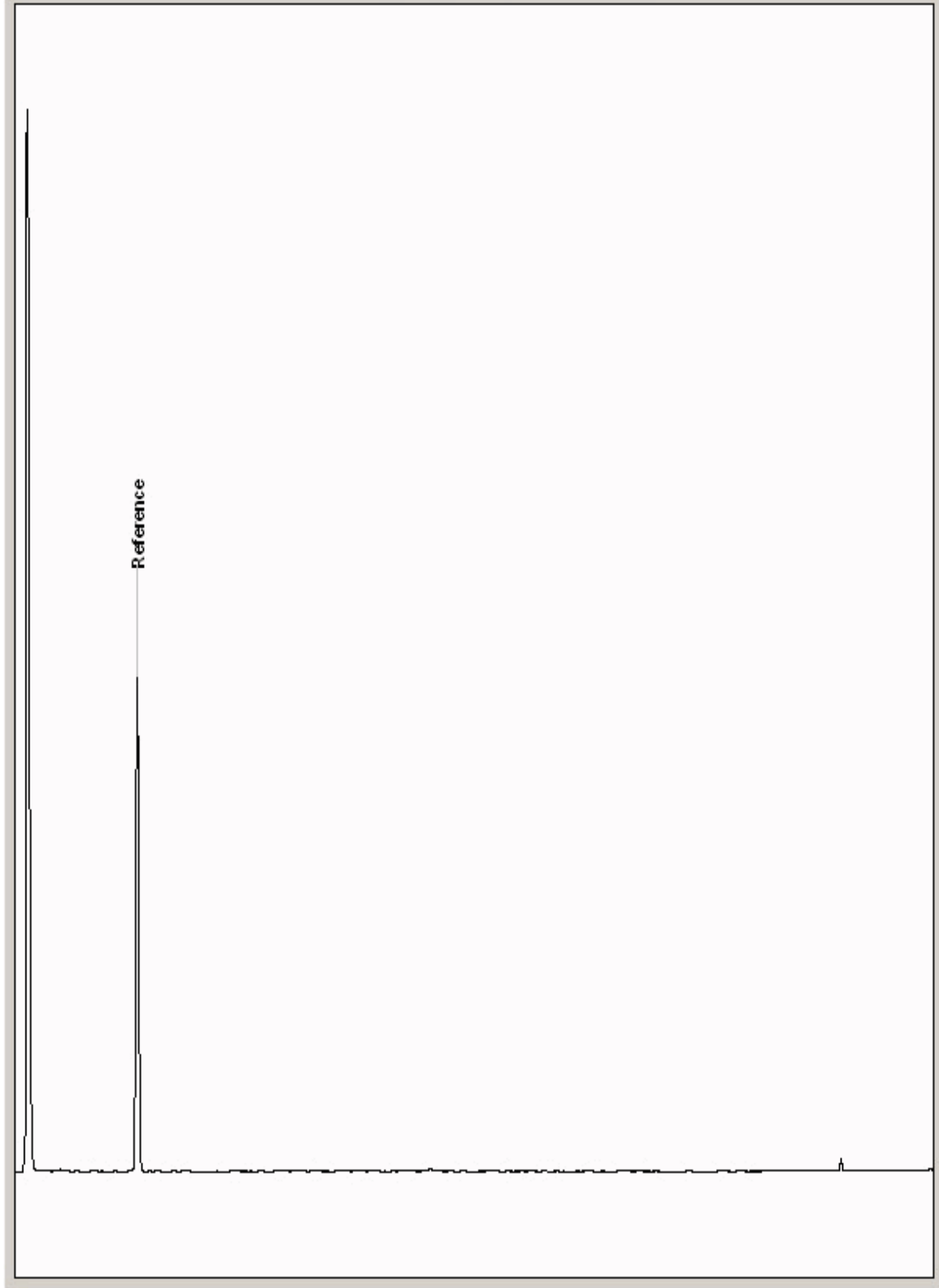
Chromatogram

Analysis: GRO by GC-FID (S)
19283191

Sample No :
Sample ID : BH249

19,283,191 Depth : 10.00 - 11.00

19283191_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

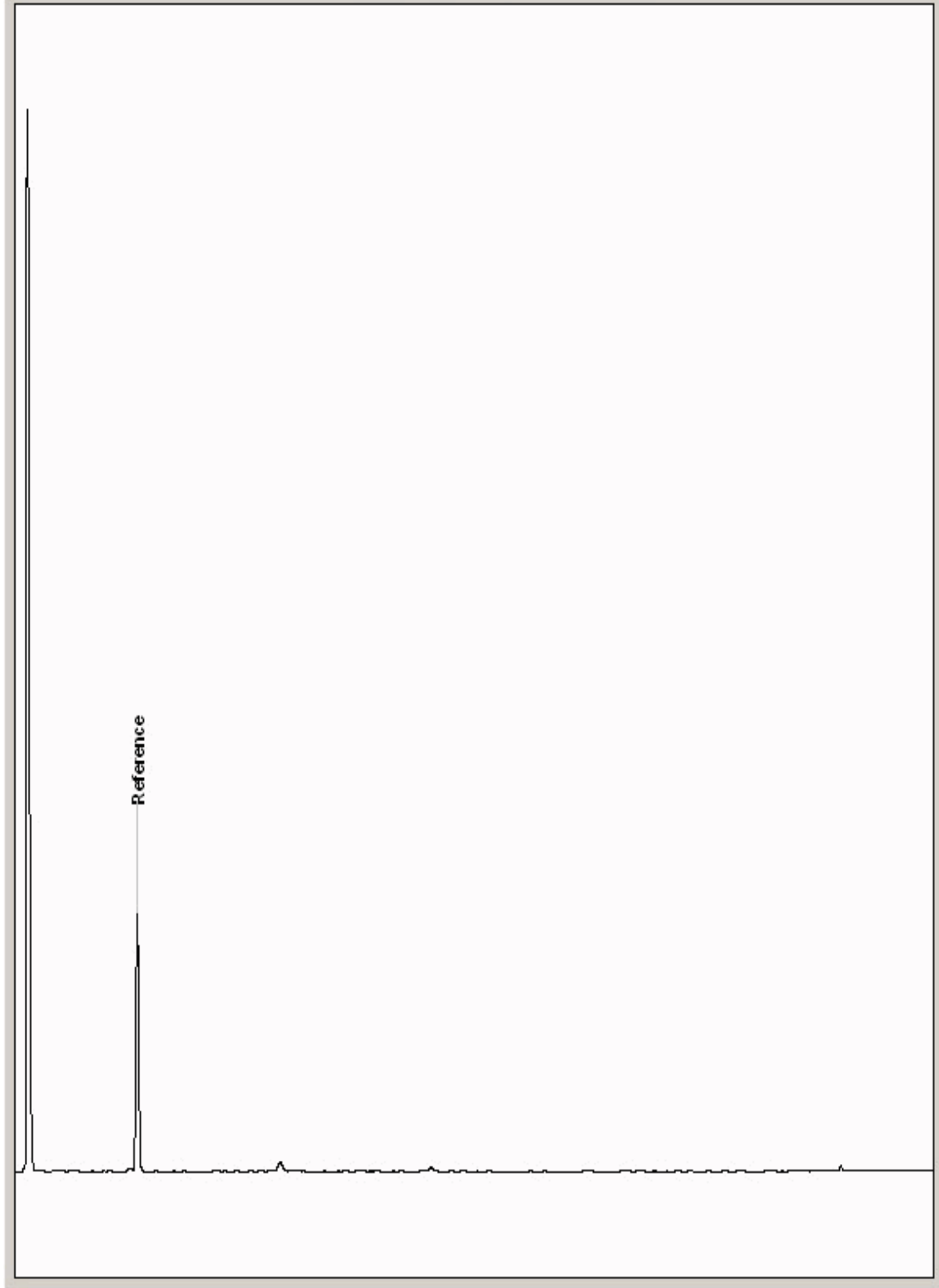
Chromatogram

Analysis: GRO by GC-FID (S)
19283232

Sample No :
Sample ID : BH247

19,283,232Depth : 1.00 - 2.00

19283232_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

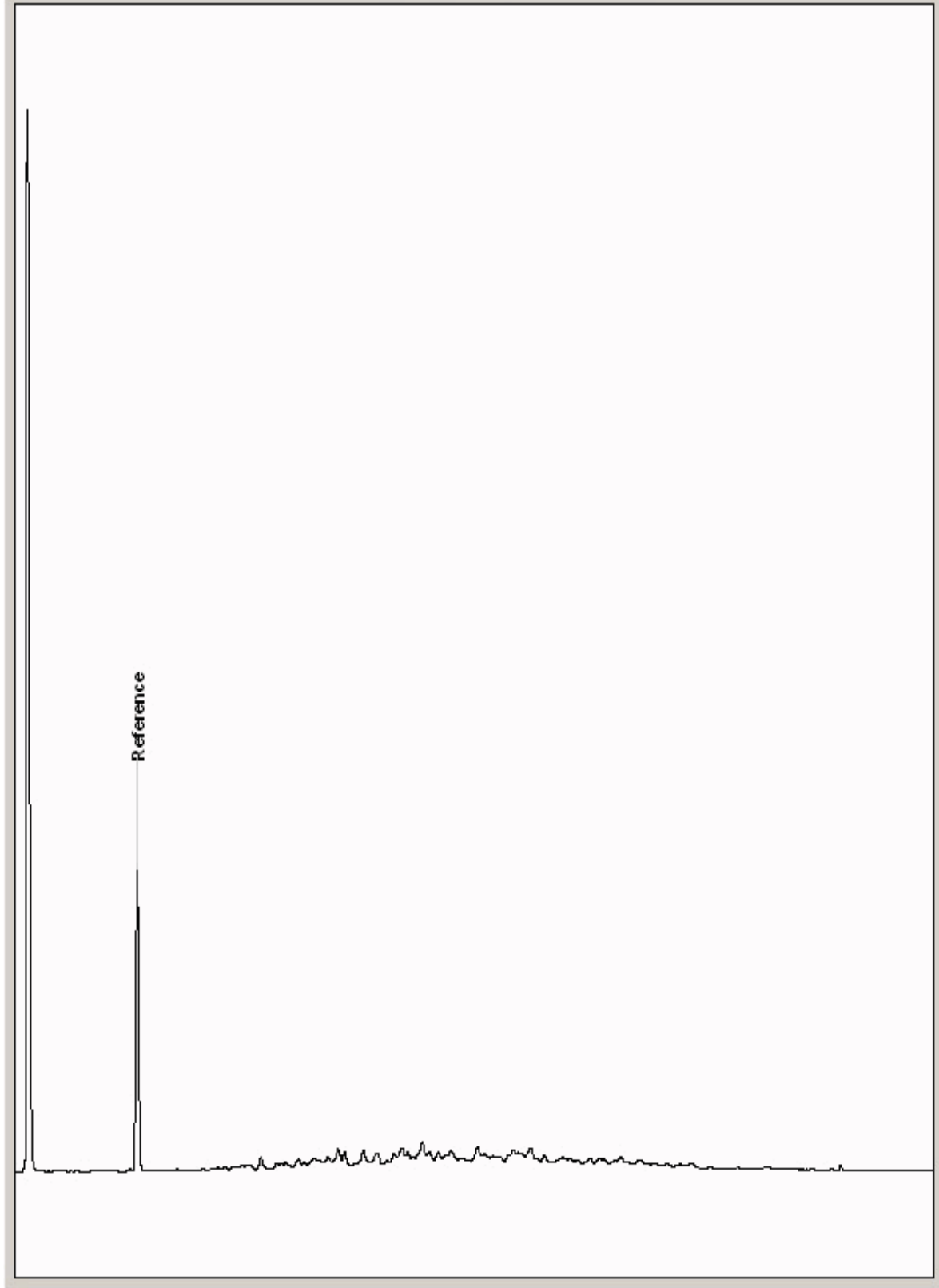
Chromatogram

Analysis: GRO by GC-FID (S)
19283261

Sample No :
Sample ID : BH247

19,283,261 Depth : 2.00 - 3.00

19283261_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

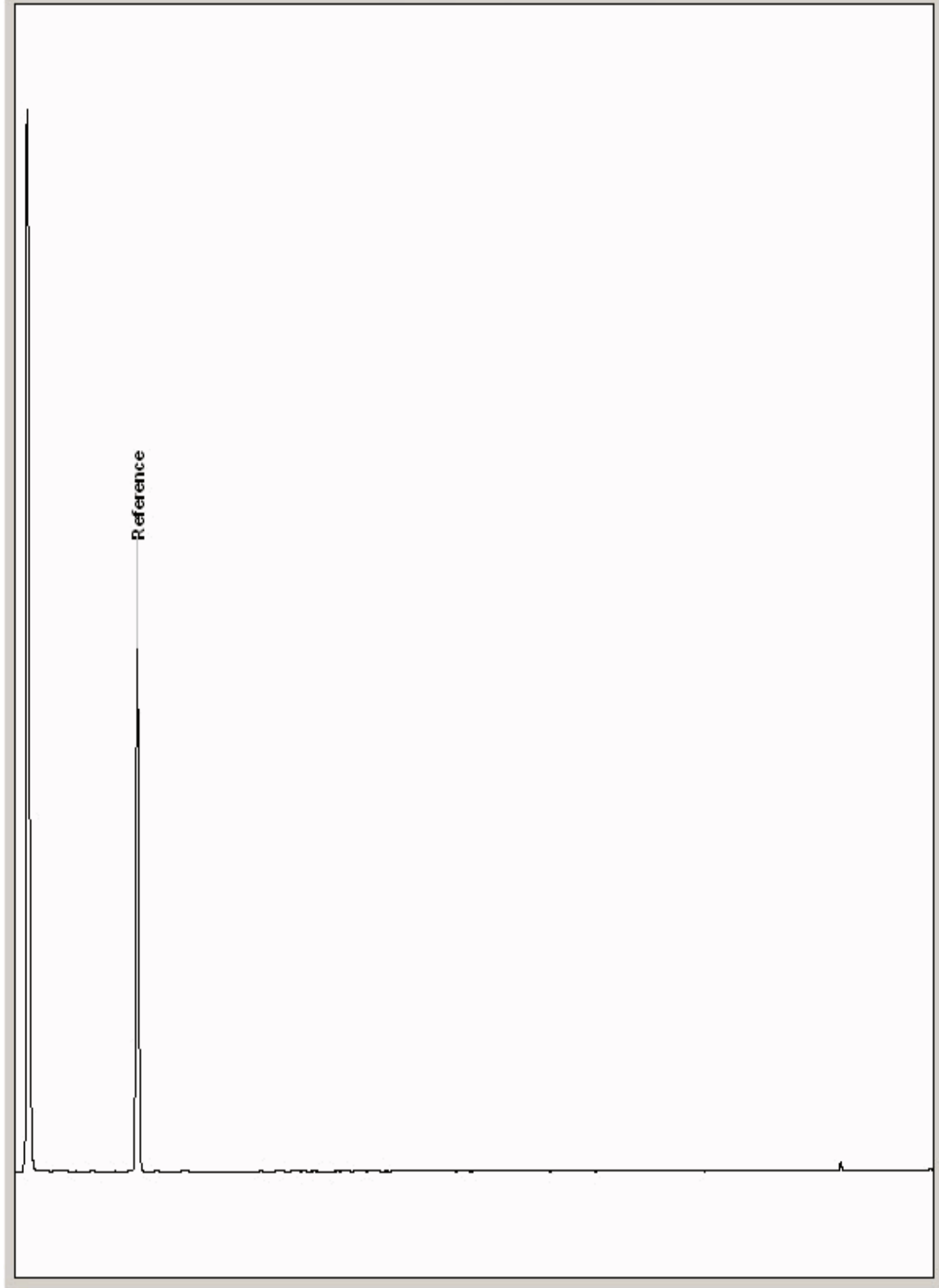
Chromatogram

Analysis: GRO by GC-FID (S)
19283309

Sample No :
Sample ID : BH247

19,283,309Depth :8.00 - 9.00

19283309_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

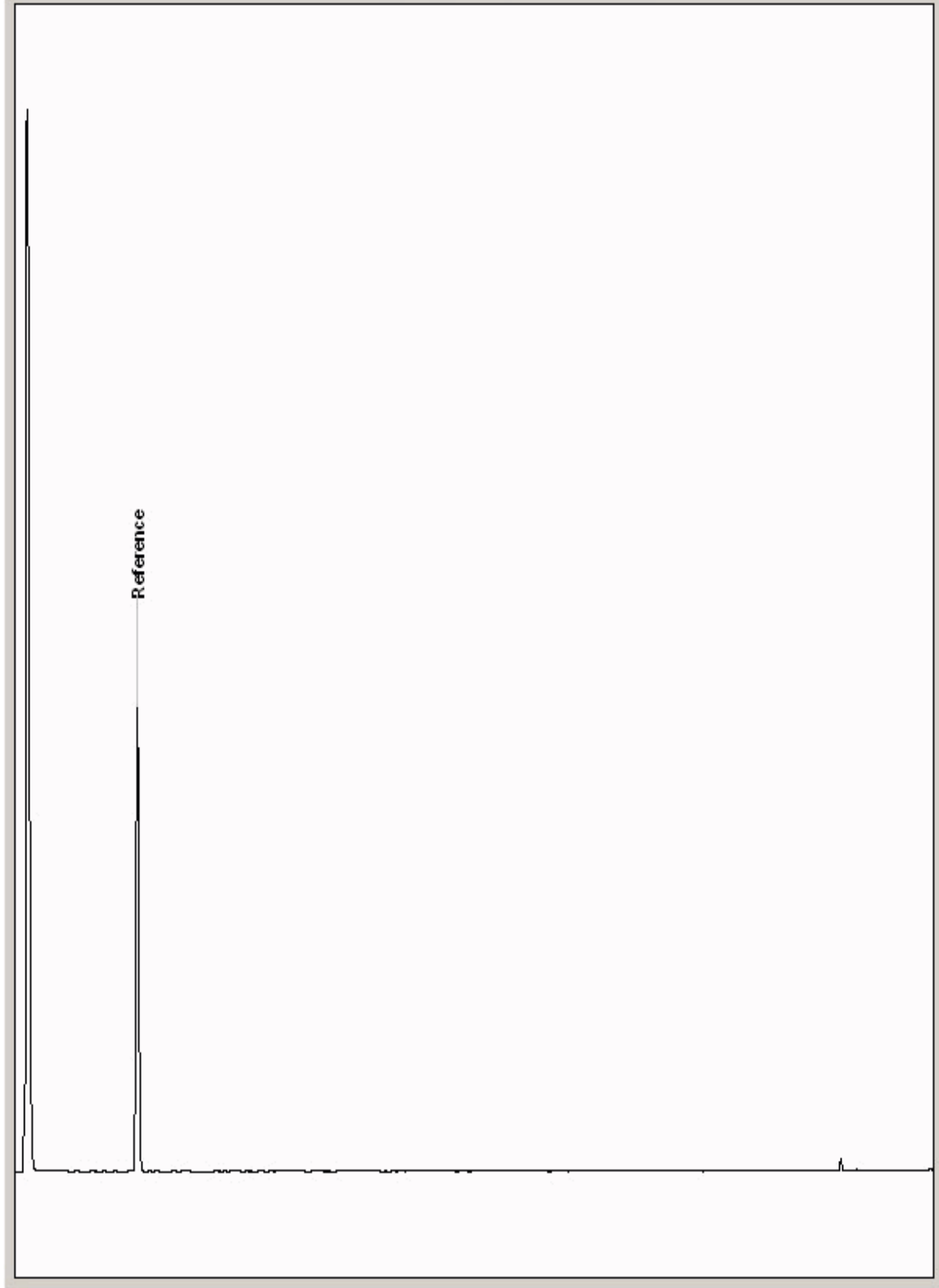
Chromatogram

Analysis: GRO by GC-FID (S)
19283703

Sample No :
Sample ID : BH247

19,283,703 **Depth :** 0.50 - 1.00

19283703_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

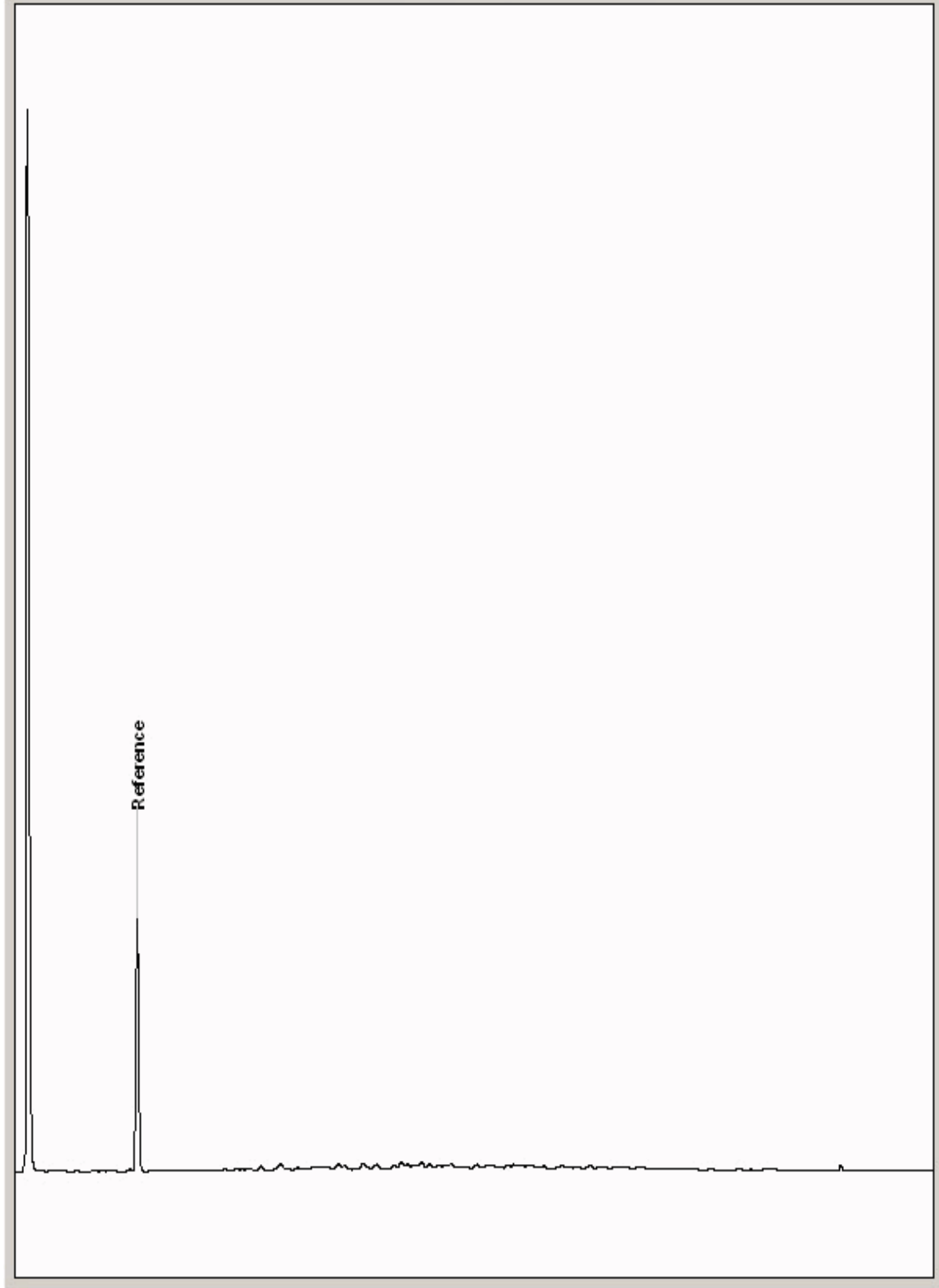
Chromatogram

Analysis: GRO by GC-FID (S)
19283767

Sample No :
Sample ID : BH247

19,283,767Depth :3.00 - 4.00

19283767_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19286322

Sample No :
Sample ID : BH248

19,286,322**Depth :** 0.00 - 0.50

19286322_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

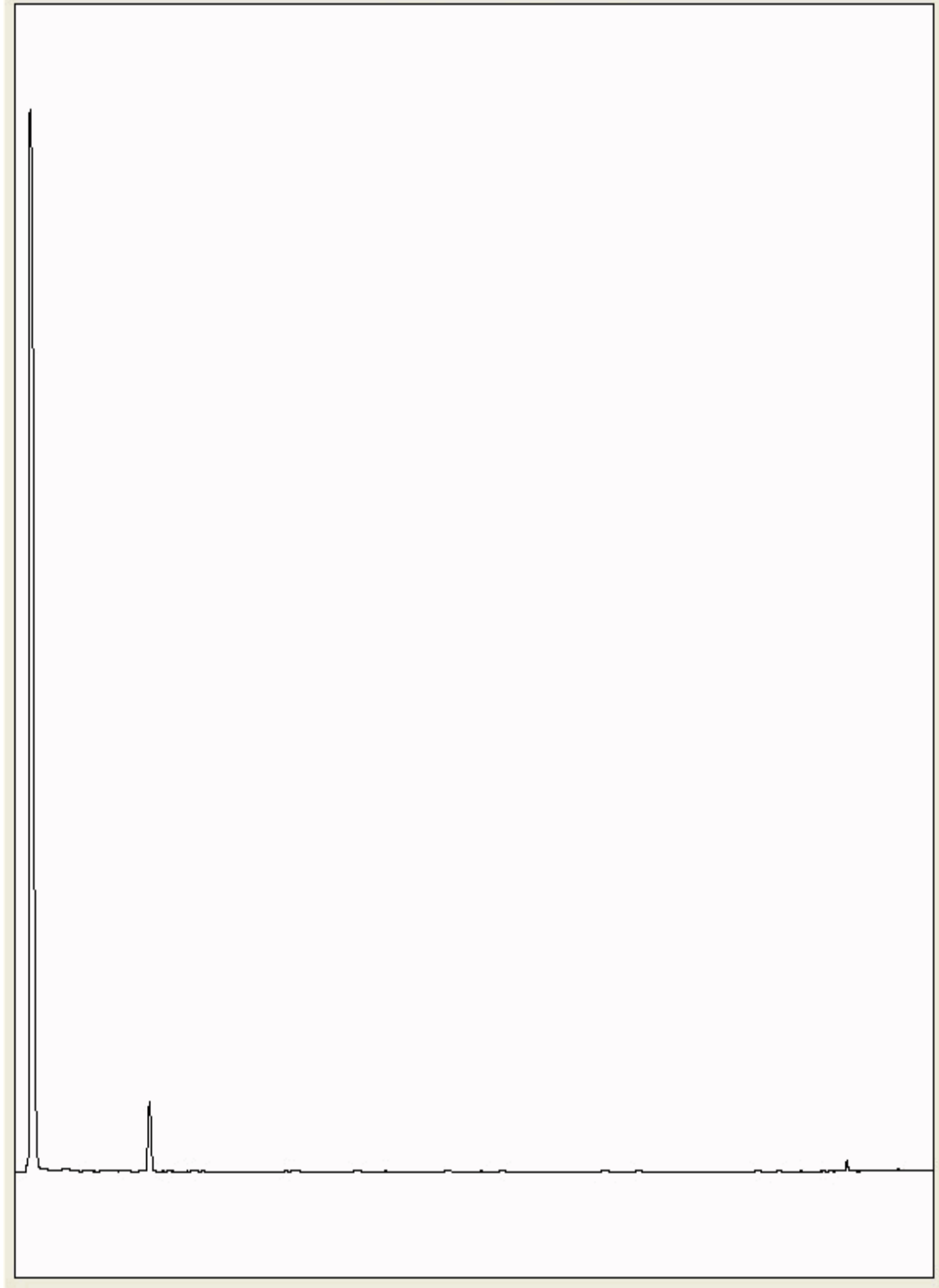
Chromatogram

Analysis: GRO by GC-FID (S)
19286338

Sample No :
Sample ID : BH248

19,286,338 **Depth :** 15.00 - 16.00

19286338_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

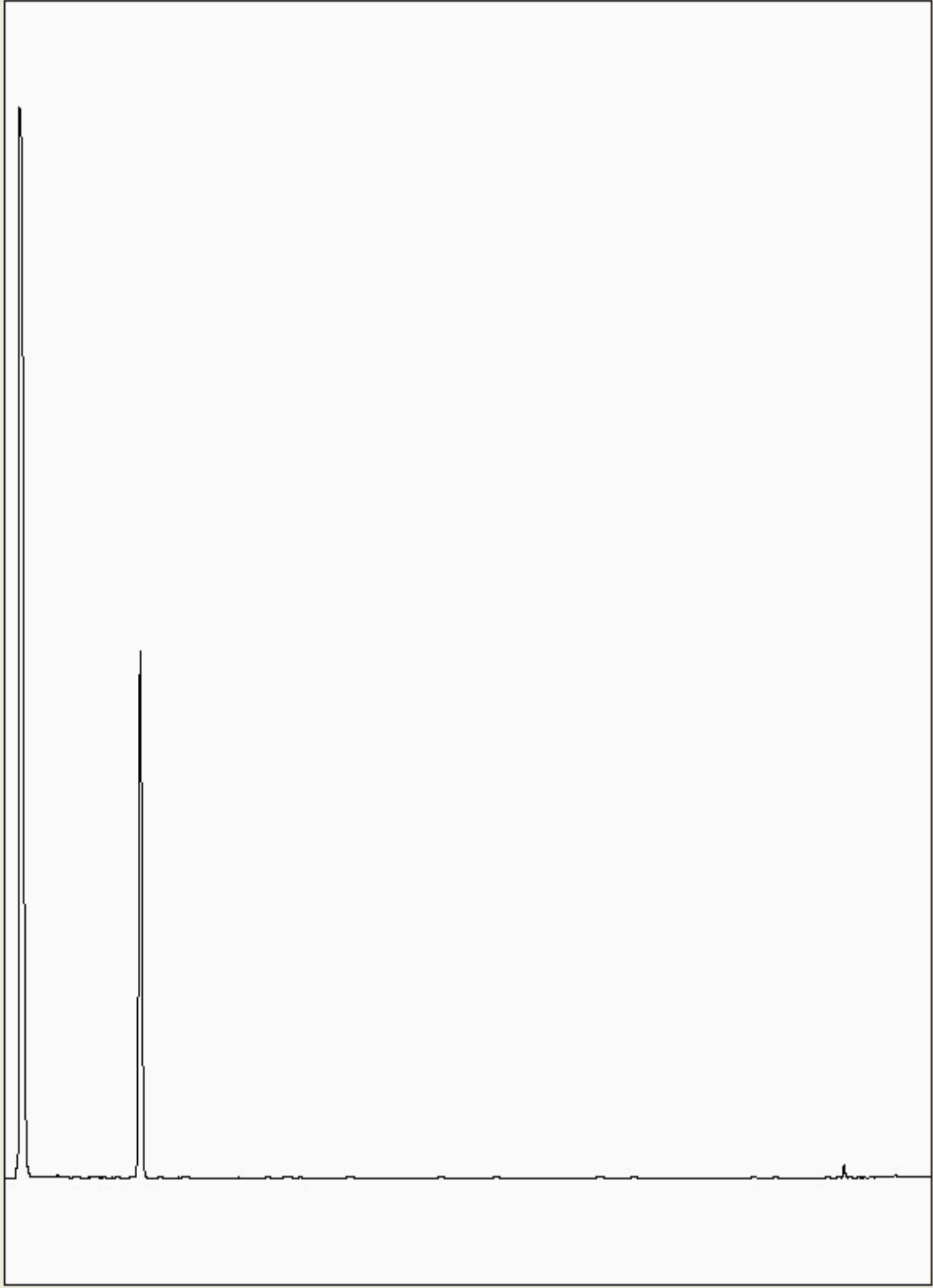
Chromatogram

Analysis: GRO by GC-FID (S)
19286355

Sample No :
Sample ID : BH248

19,286,355 **Depth :** 11.00 - 12.00

19286355_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

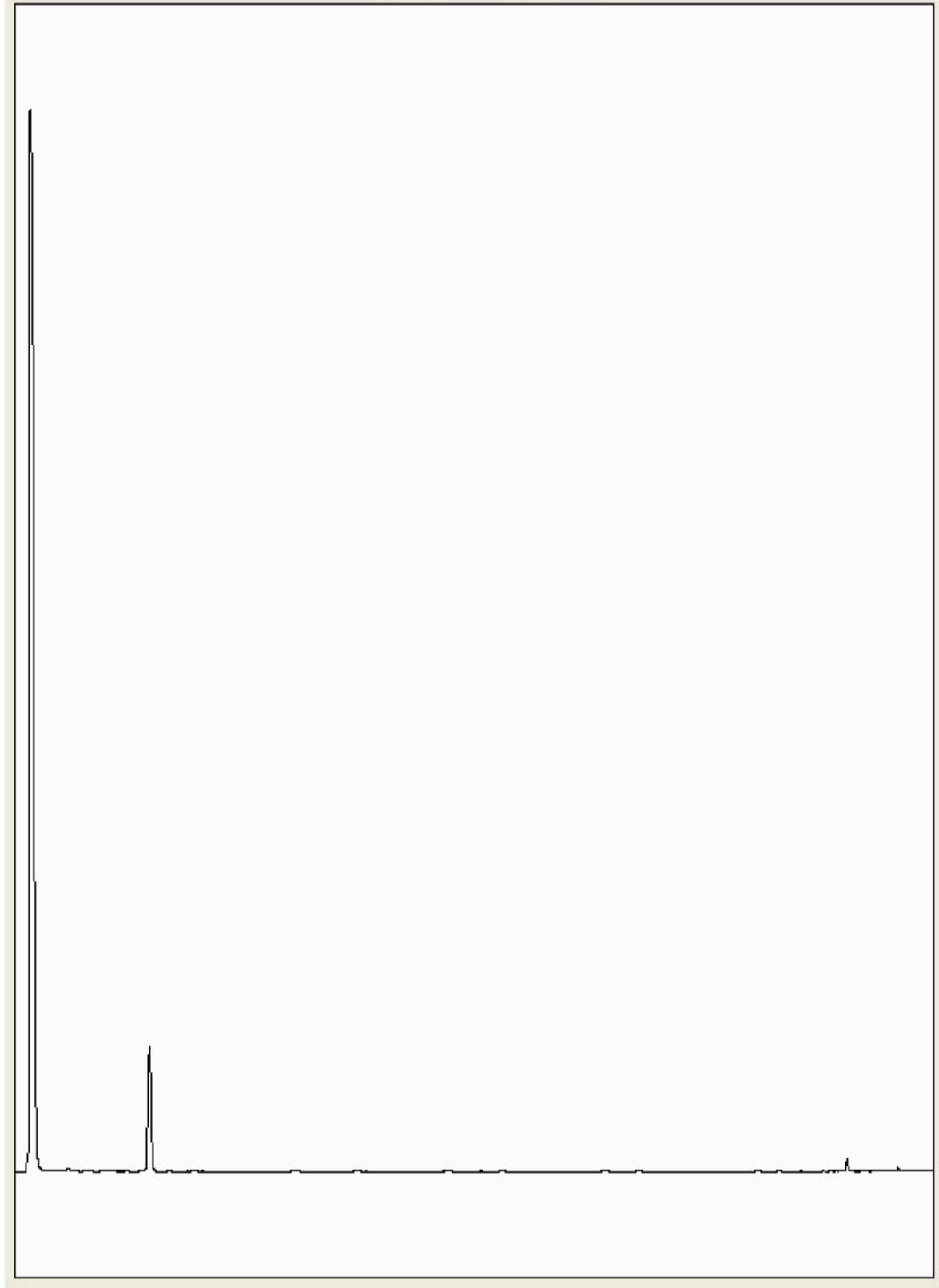
Chromatogram

Analysis: GRO by GC-FID (S)
19286384

Sample No :
Sample ID : BH248

19,286,384 **Depth :** 13.00 - 14.00

19286384_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

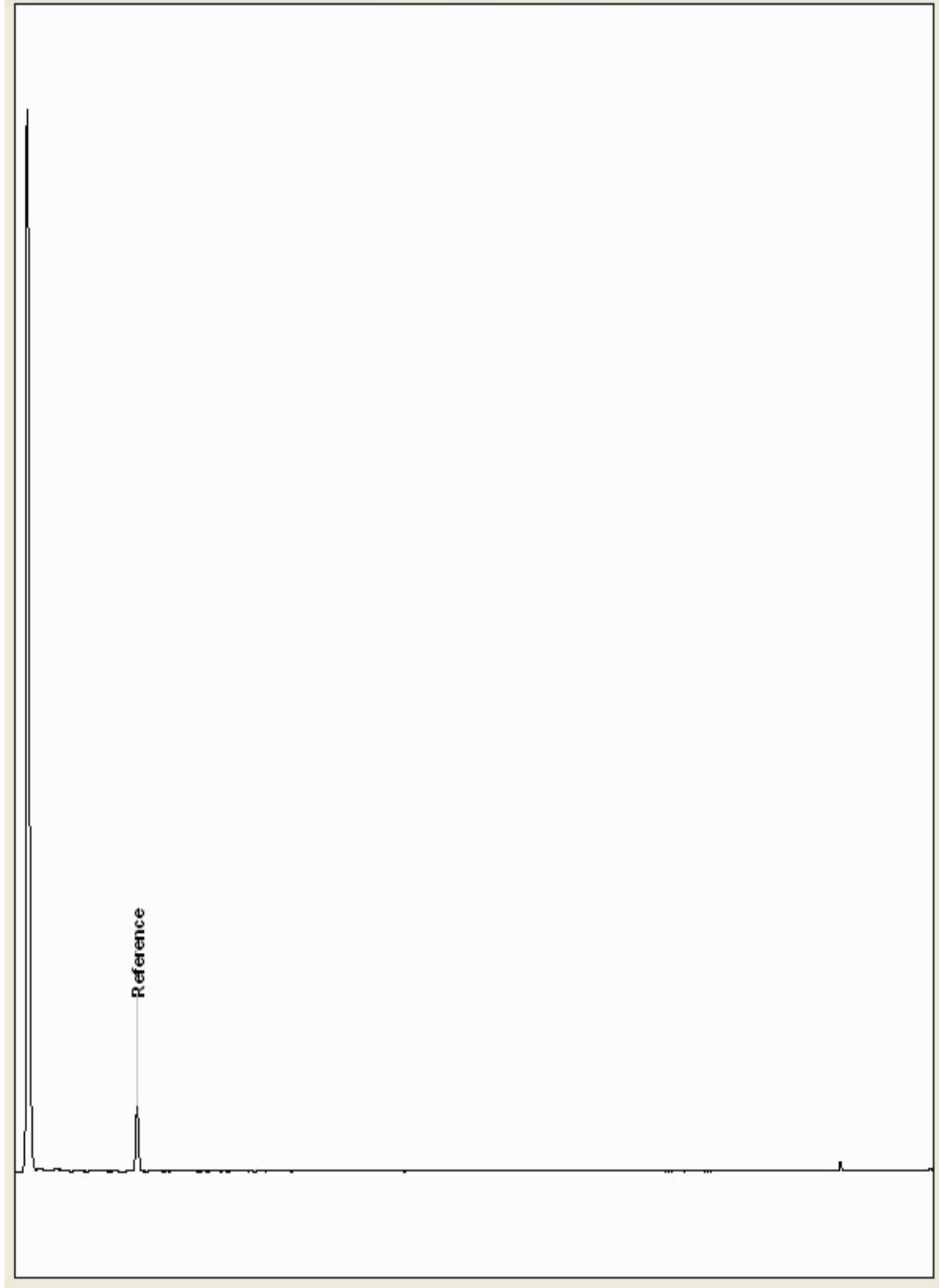
Chromatogram

Analysis: GRO by GC-FID (S)
19313939

Sample No :
Sample ID : BH247

19,313,939 Depth : 15.00 - 16.00

19313939_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

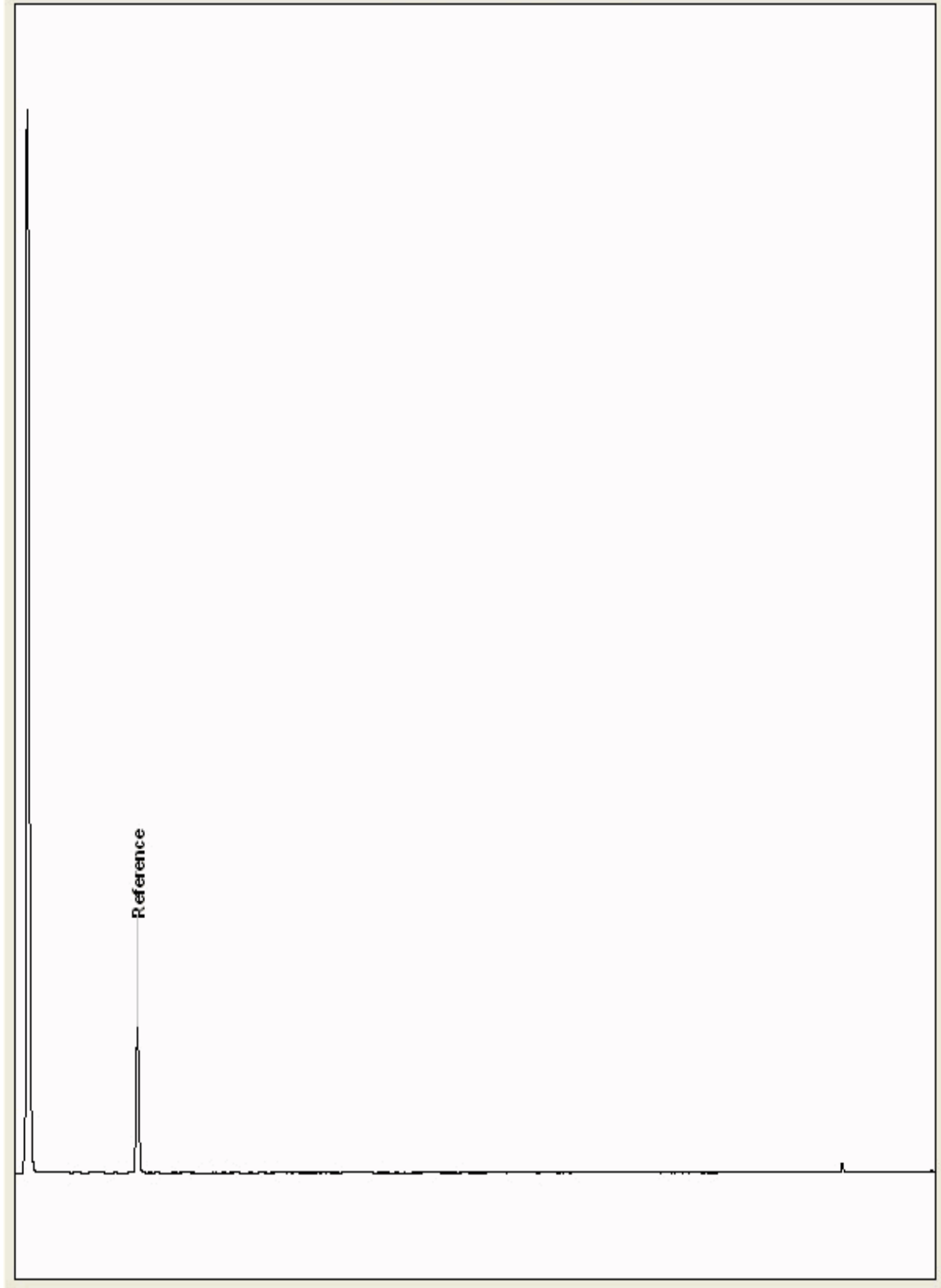
Chromatogram

Analysis: GRO by GC-FID (S)
19313962

Sample No :
Sample ID : BH247

19,313,962**Depth :** 12.00 - 13.00

19313962_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

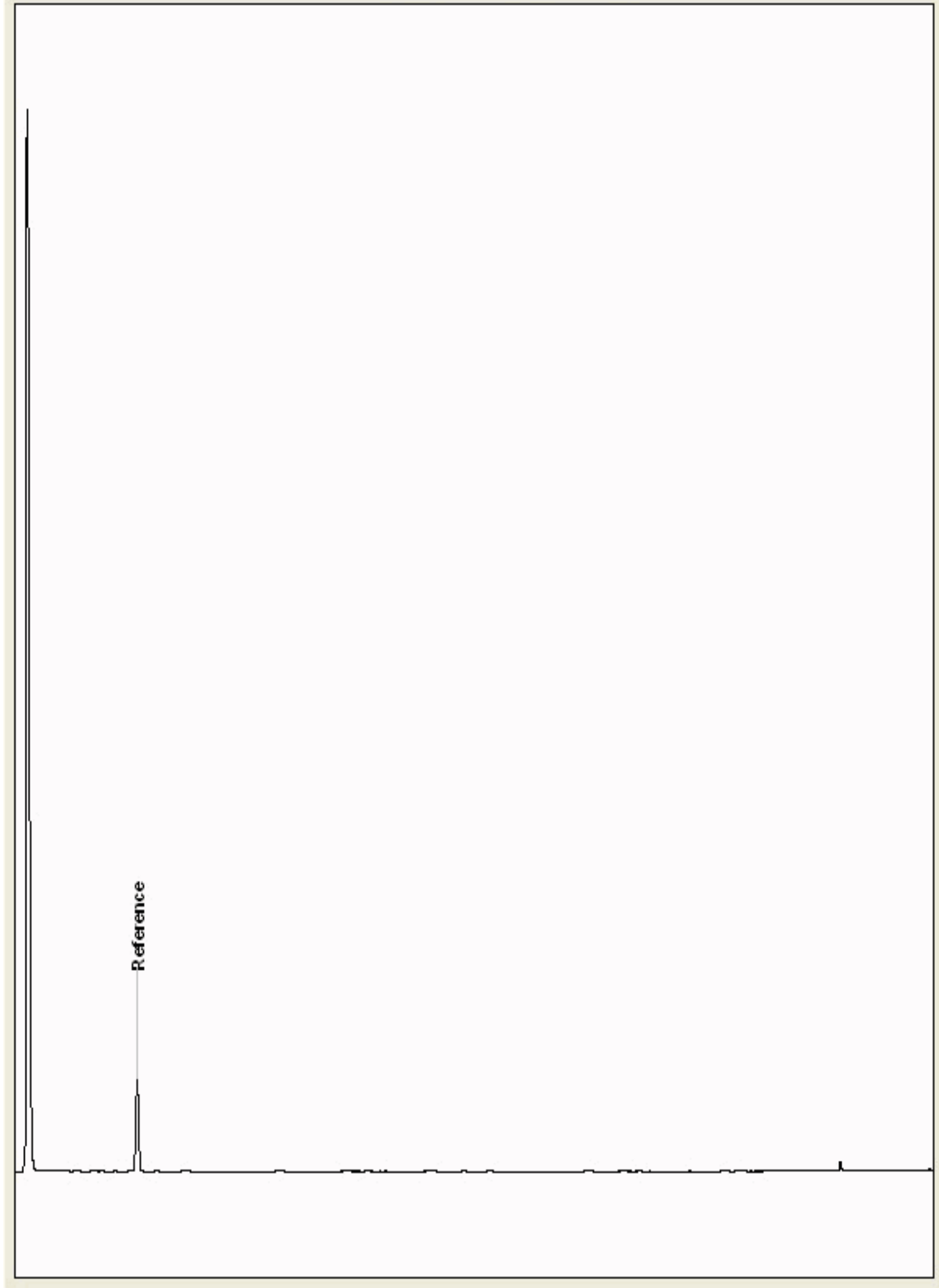
Chromatogram

Analysis: GRO by GC-FID (S)
19314007

Sample No :
Sample ID : BH247

19,314,007 **Depth :** 13.00 - 14.00

19314007_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

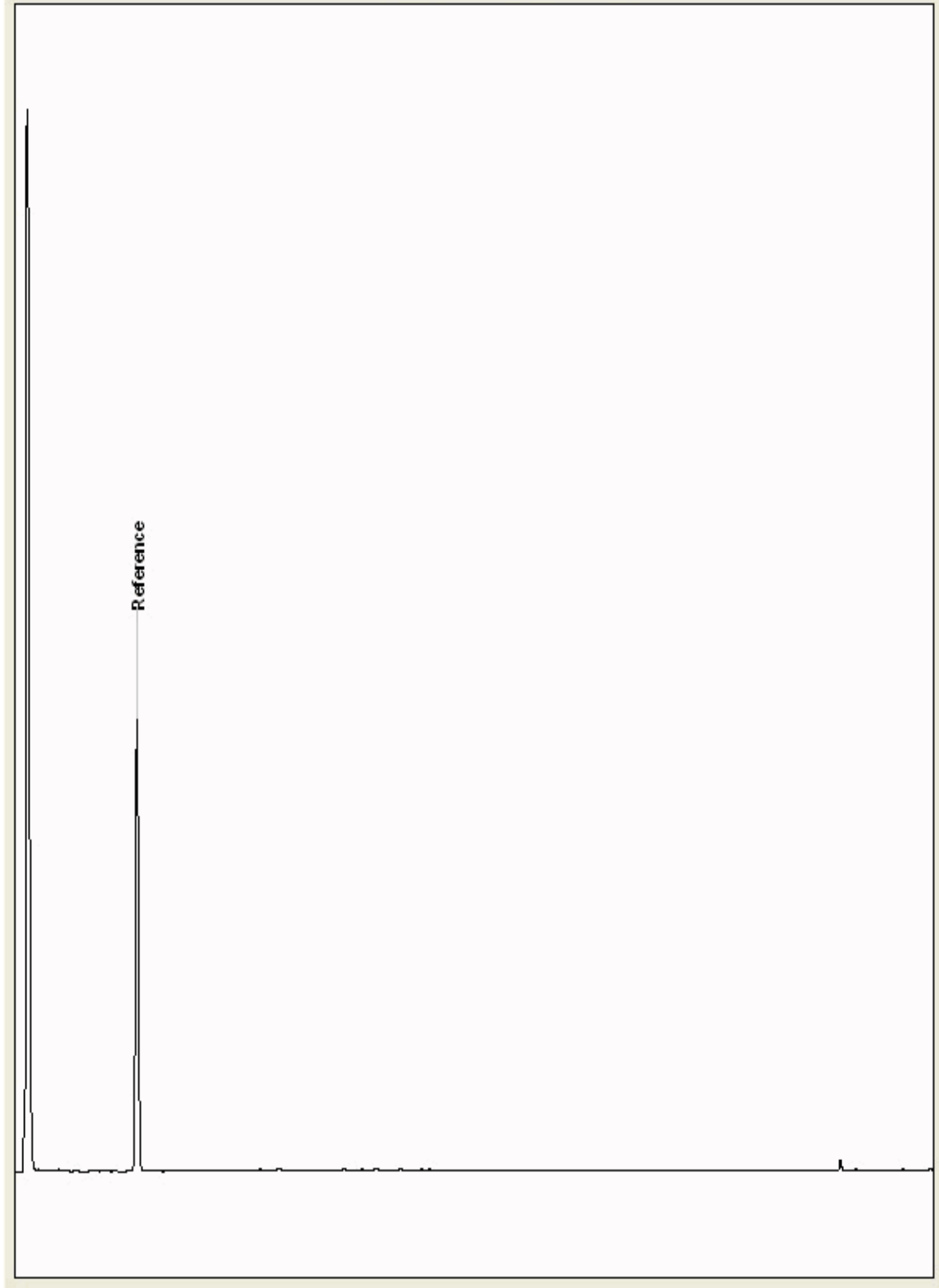
Chromatogram

Analysis: GRO by GC-FID (S)
19314049

Sample No :
Sample ID : BH247

19,314,049Depth :4.00 - 5.00

19314049_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

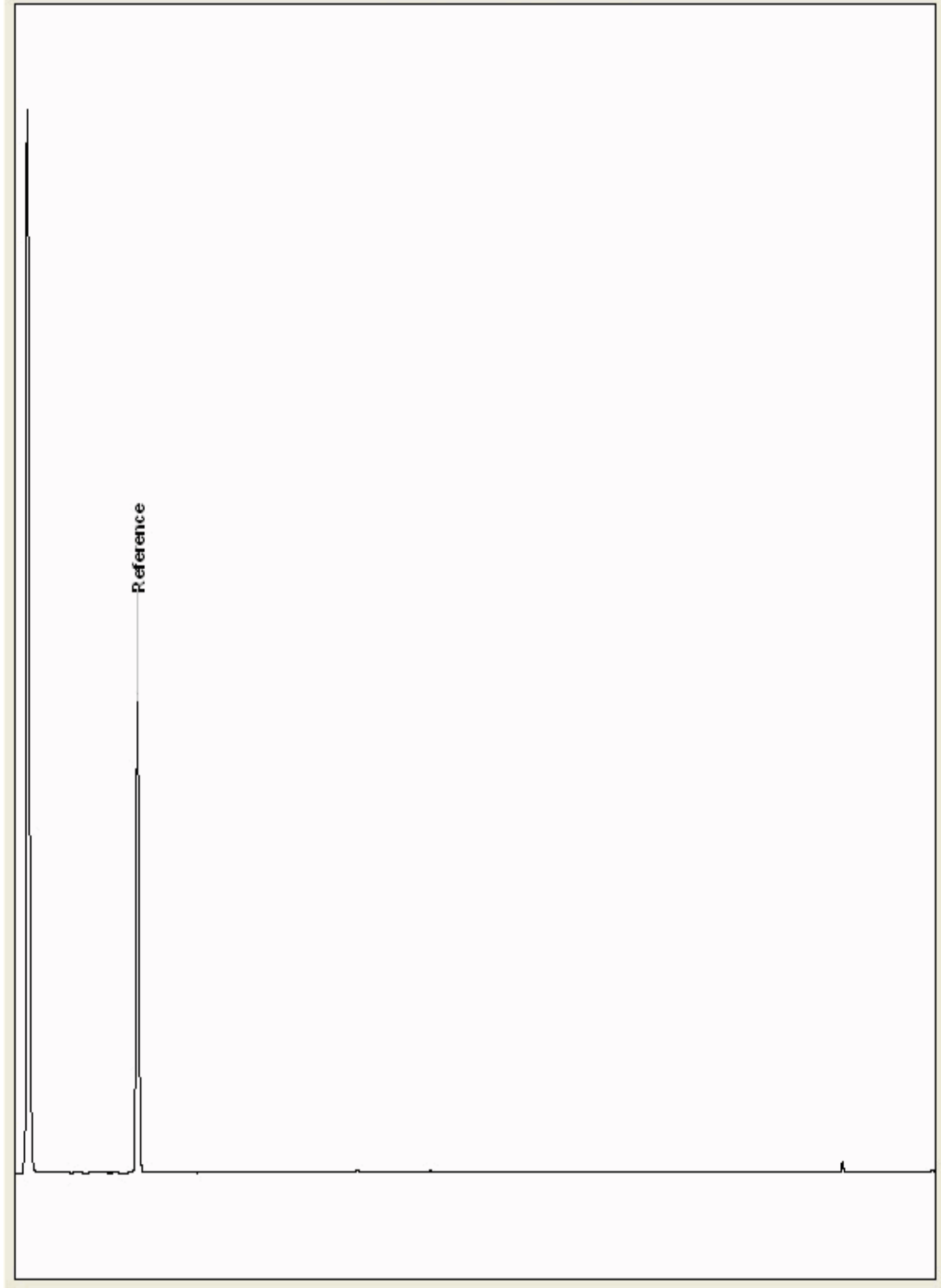
Chromatogram

Analysis: GRO by GC-FID (S)
19314085

Sample No :
Sample ID : BH247

19,314,085**Depth :**6.00 - 7.00

19314085_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

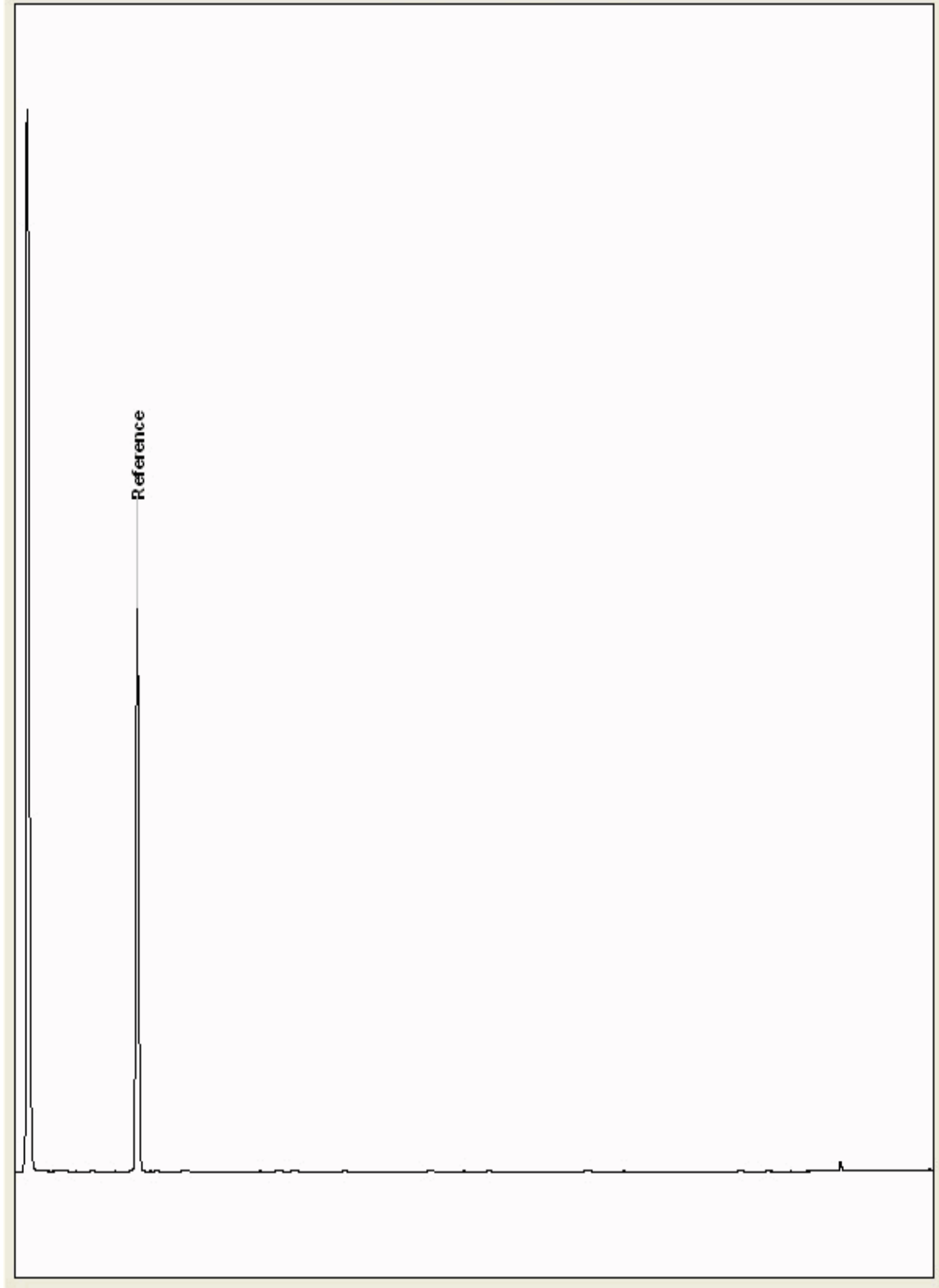
Chromatogram

Analysis: GRO by GC-FID (S)
19314112

Sample No :
Sample ID : BH247

19,314,112Depth :9.00 - 10.00

19314112_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

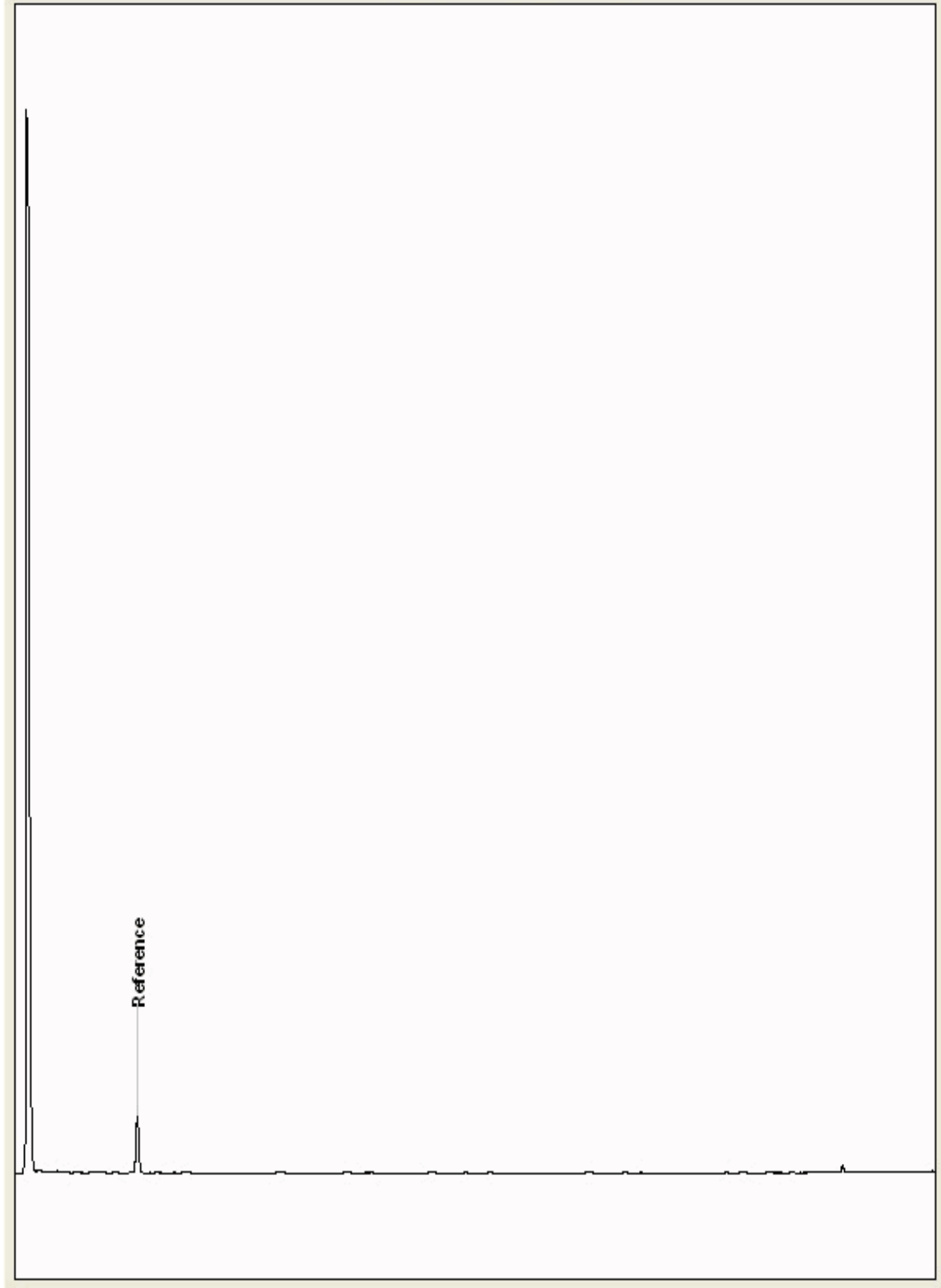
Chromatogram

Analysis: GRO by GC-FID (S)
19314209

Sample No :
Sample ID : BH249

19,314,209Depth : 16.00 - 17.00

19314209_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

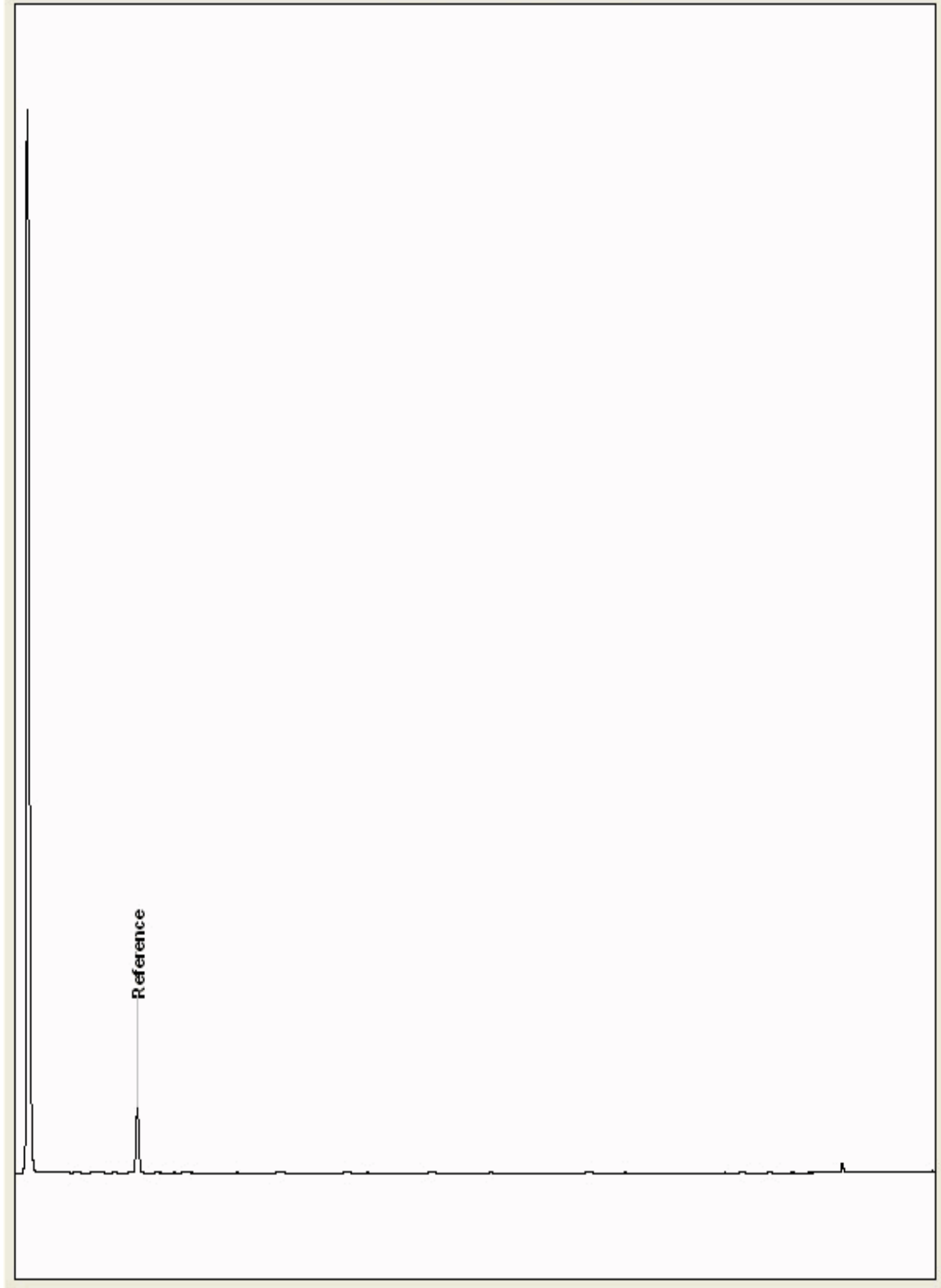
Chromatogram

Analysis: GRO by GC-FID (S)
19314223

Sample No : 19,314,223
Sample ID : BH249

Depth : 14.00 - 15.00

19314223_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

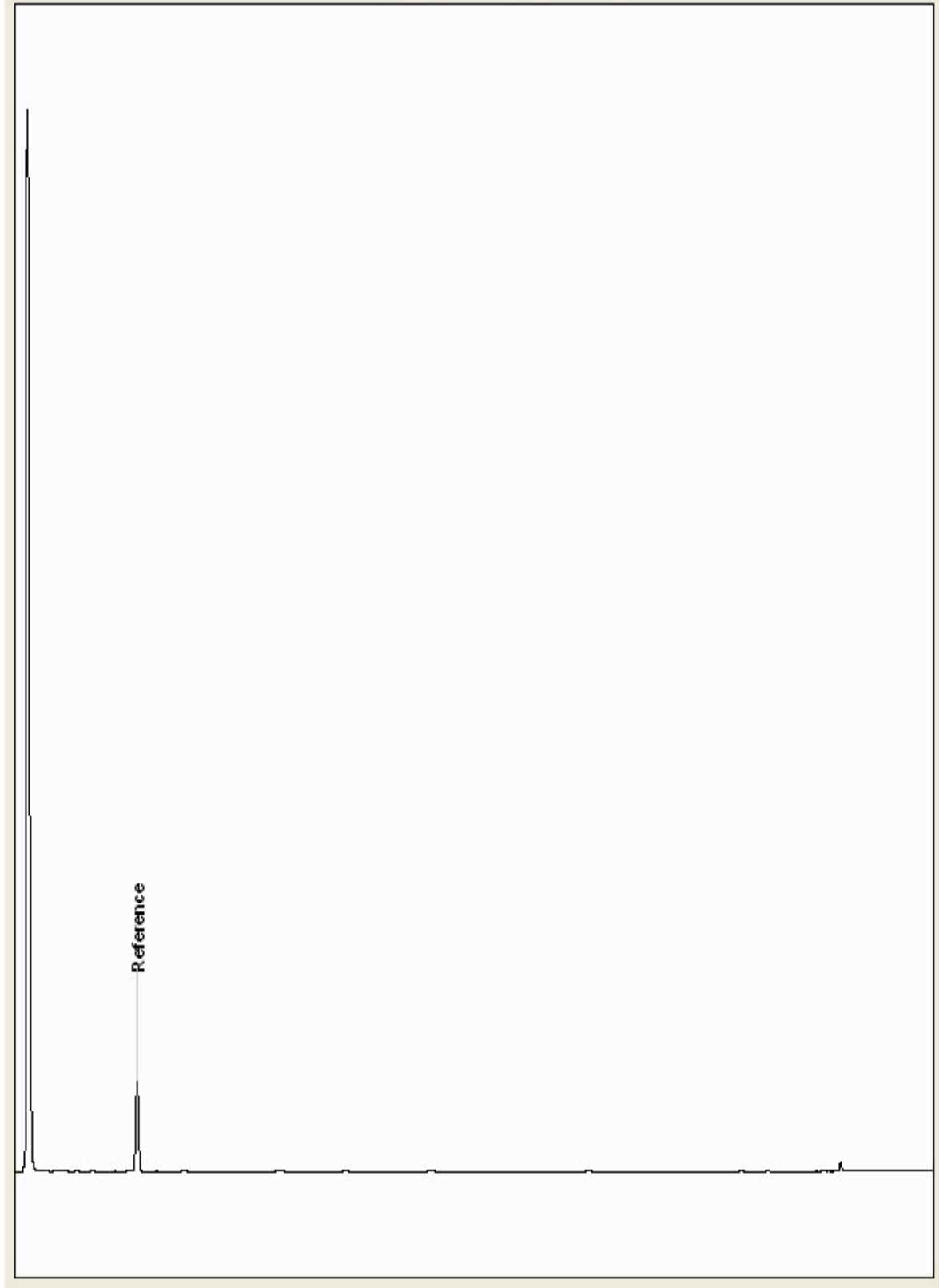
Chromatogram

Analysis: GRO by GC-FID (S)
19314254

Sample No :
Sample ID : BH249

19,314,254 Depth : 12.00 - 13.00

19314254_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

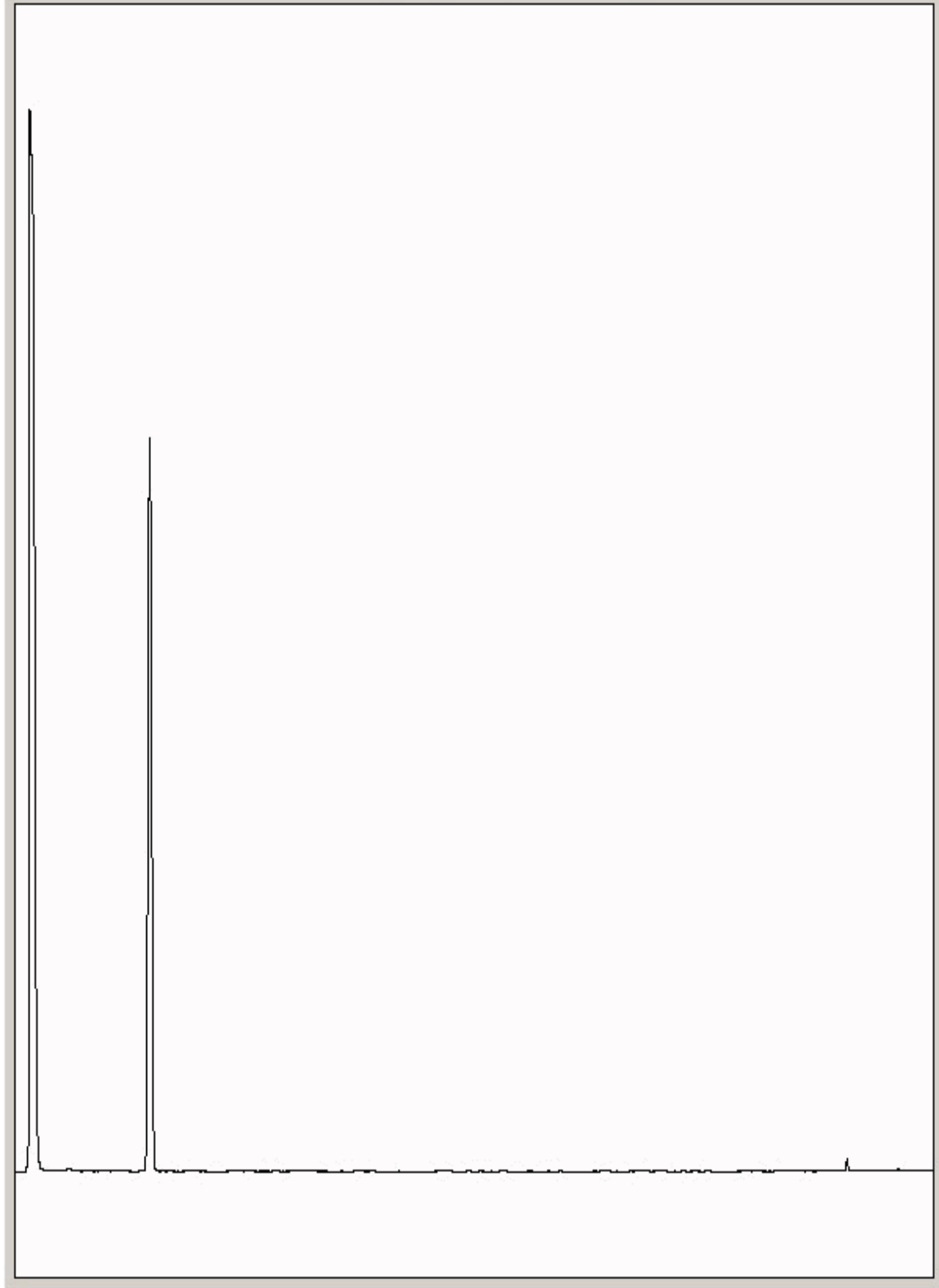
Chromatogram

Analysis: GRO by GC-FID (S)
19328358

Sample No :
Sample ID : BH249

19,328,358**Depth :**4.00 - 5.00

19328358_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

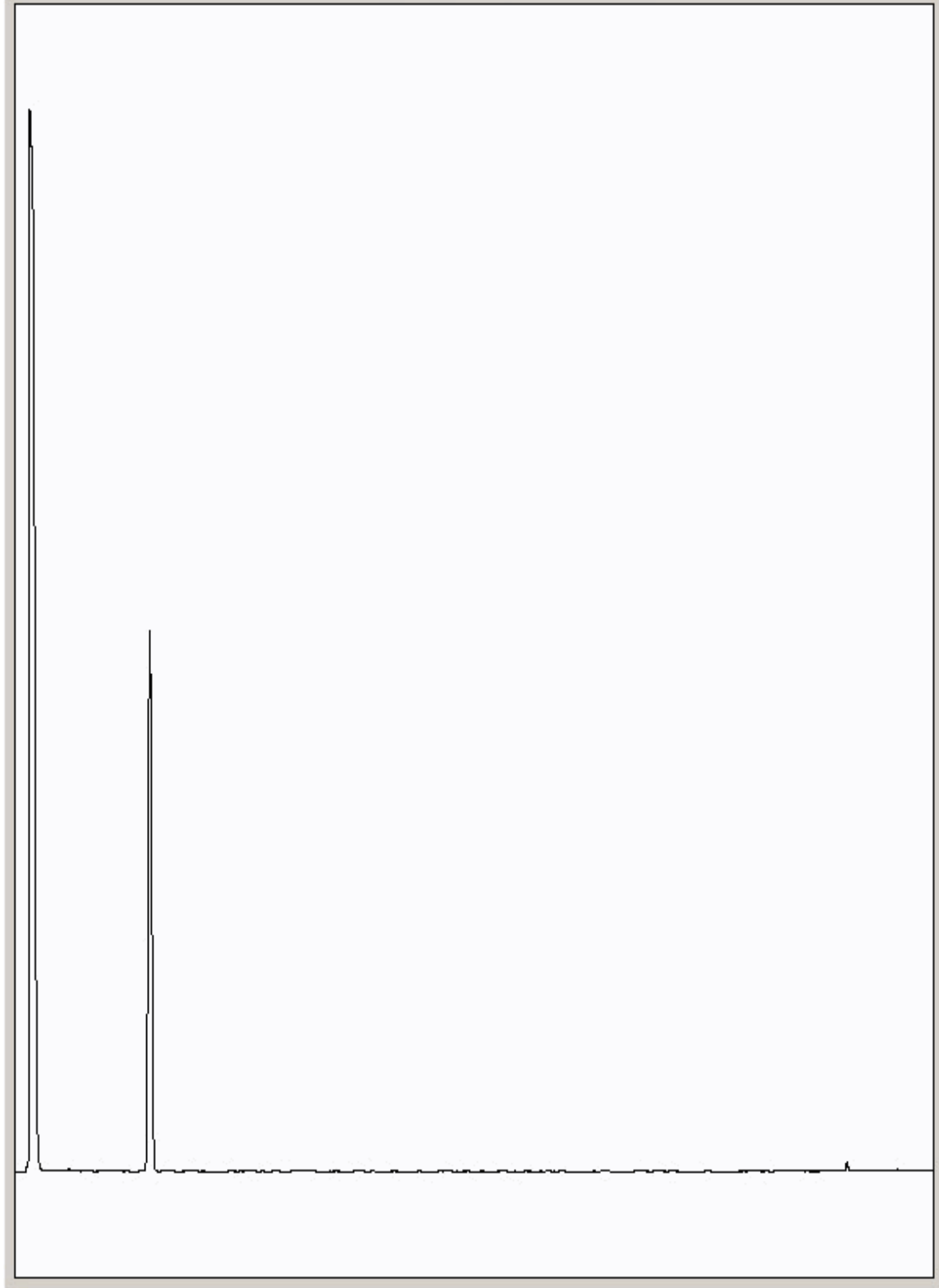
Chromatogram

Analysis: GRO by GC-FID (S)
19328395

Sample No :
Sample ID : BH249

19,328,395Depth :0.00 - 0.50

19328395_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

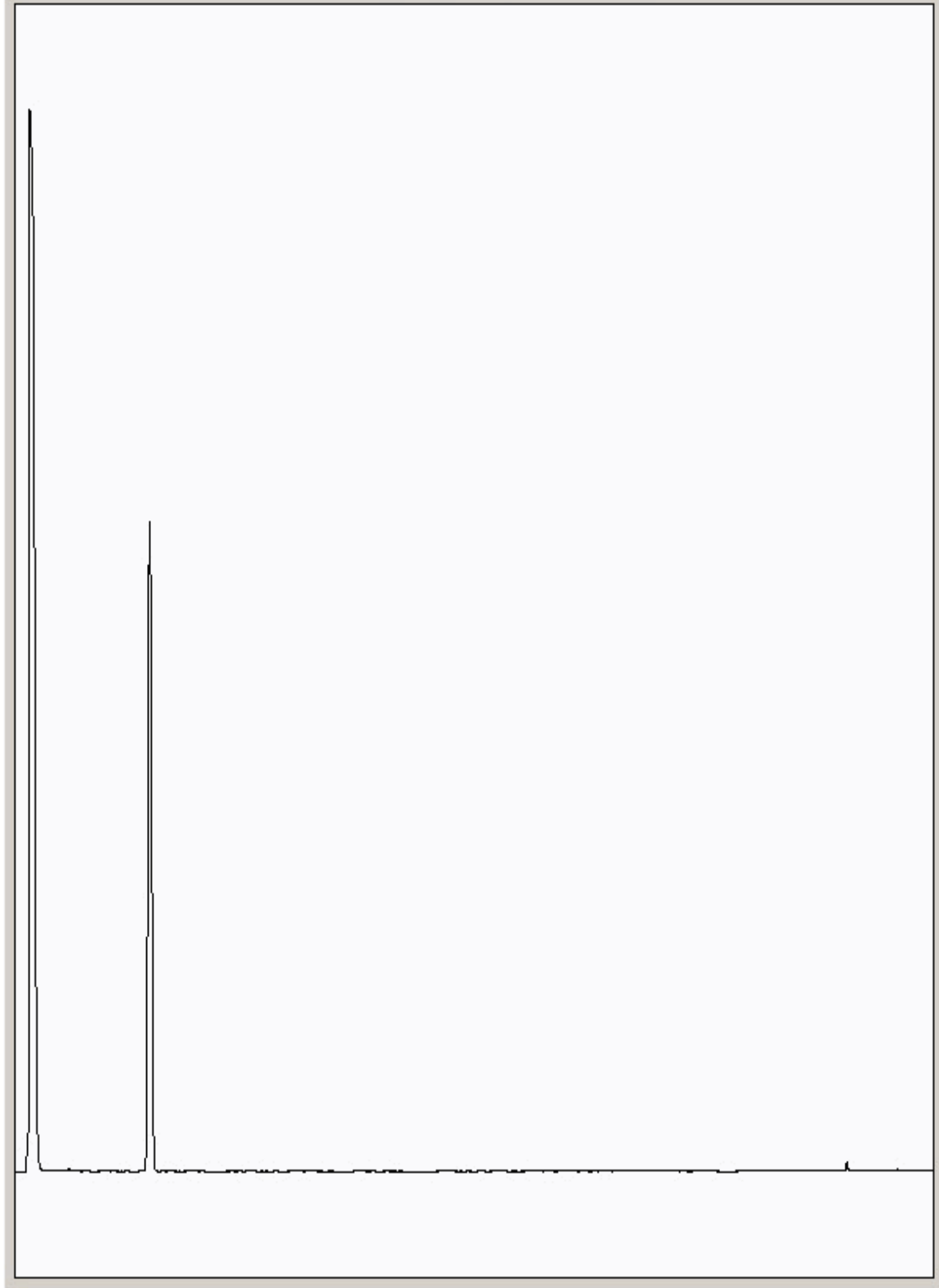
Chromatogram

Analysis: GRO by GC-FID (S)
19328476

Sample No :
Sample ID : BH249

19,328,476**Depth :**6.00 - 7.00

19328476_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

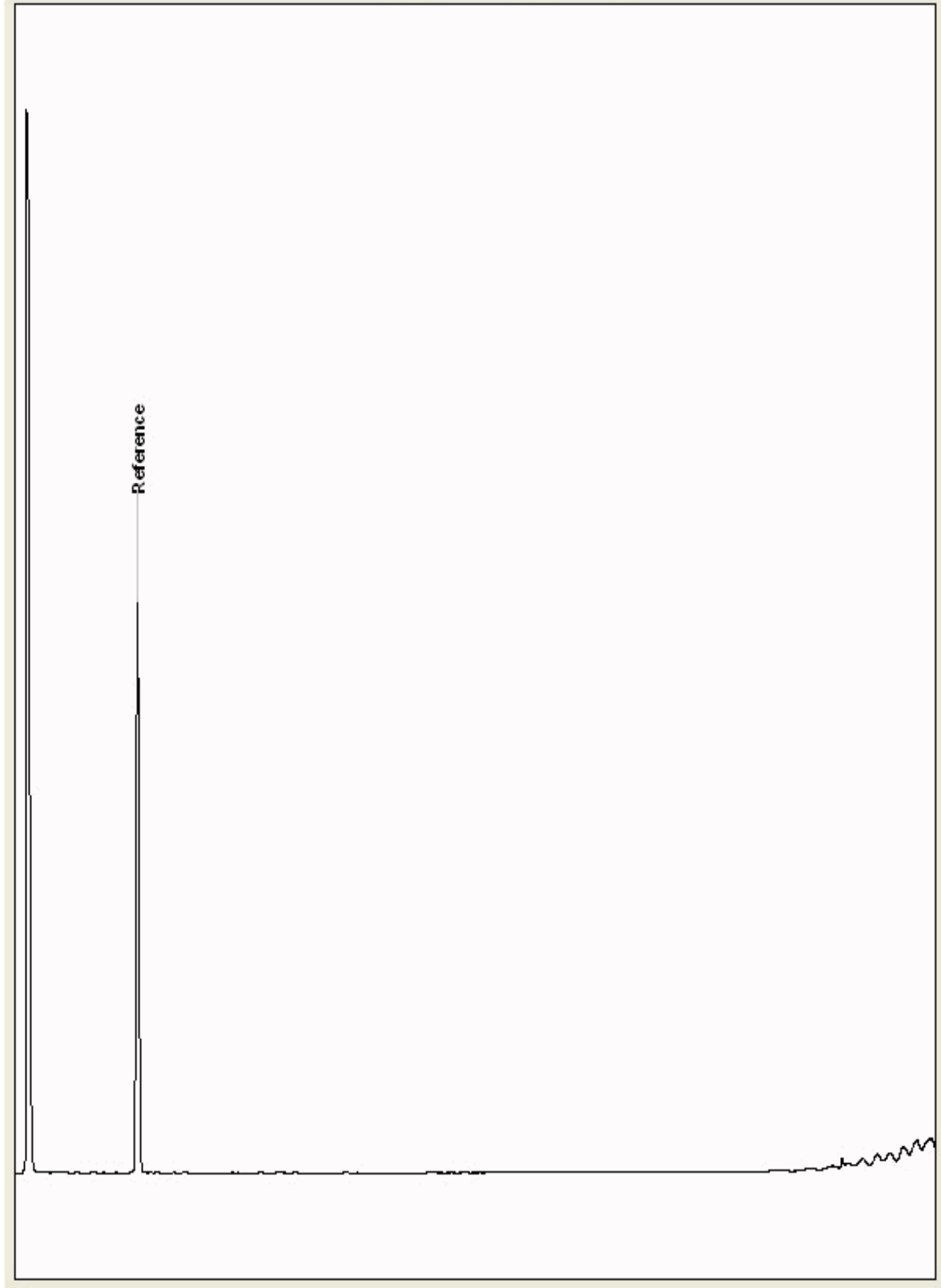
Chromatogram

Analysis: GRO by GC-FID (S)
19343092

Sample No :
Sample ID : BH249

19,343,092Depth :0.50 - 1.00

19343092_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	34
Your Reference:	602387	Samples Scheduled:	33

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19243194	BH244		0.00 - 0.50	22/01/2019
19243207	BH244		10.00 - 11.00	22/01/2019
19243209	BH244		12.00 - 13.00	22/01/2019
19243212	BH244		14.00 - 15.00	22/01/2019
19243214	BH244		16.00 - 17.00	22/01/2019
19243198	BH244		2.00 - 3.00	22/01/2019
19243199	BH244		3.00 - 4.00	22/01/2019
19243202	BH244		5.00 - 6.00	22/01/2019
19243203	BH244		6.00 - 7.00	22/01/2019
19243204	BH244		7.00 - 8.00	22/01/2019
19243205	BH244		8.00 - 9.00	22/01/2019
19243216	BH245		0.50 - 1.00	22/01/2019
19243217	BH245		1.00 - 2.00	22/01/2019
19243229	BH245		12.00 - 13.00	22/01/2019
19251639	BH245		12.00 - 13.00	22/01/2019
19243232	BH245		15.00 - 16.00	22/01/2019
19243218	BH245		2.00 - 3.00	22/01/2019
19243219	BH245		3.00 - 4.00	22/01/2019
19243220	BH245		4.00 - 5.00	22/01/2019
19243221	BH245		5.00 - 6.00	22/01/2019
19243222	BH245		6.00 - 7.00	22/01/2019
19243225	BH245		8.00 - 9.00	22/01/2019
19243226	BH245		9.00 - 10.00	22/01/2019
19243236	BH246		0.50 - 1.00	23/01/2019
19243237	BH246		1.00 - 2.00	23/01/2019
19243249	BH246		10.00 - 11.00	23/01/2019
19243251	BH246		12.00 - 13.00	23/01/2019
19243253	BH246		14.00 - 15.00	23/01/2019
19243255	BH246		16.00 - 17.00	23/01/2019
19243239	BH246		2.00 - 3.00	23/01/2019
19243240	BH246		3.00 - 4.00	23/01/2019
19243241	BH246		4.00 - 5.00	23/01/2019
19243242	BH246		5.00 - 6.00	23/01/2019
19243243	BH246		6.00 - 7.00	23/01/2019

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19243194	19243198	19243199	19243202	19243203	19243204	19243205	19243207	19243209	19243212	19243214	19243216	19243217	19243218
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 32		0.00 - 0.50	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 33		2.00 - 3.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 32		3.00 - 4.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 32		5.00 - 6.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 32		6.00 - 7.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 33		7.00 - 8.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 33		8.00 - 9.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 32		10.00 - 11.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 32		12.00 - 13.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 33		14.00 - 15.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 32		16.00 - 17.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 32		0.50 - 1.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 32		1.00 - 2.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 33		2.00 - 3.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 32		3.00 - 4.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 32		5.00 - 6.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 32		6.00 - 7.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 32		7.00 - 8.00	1kg TUB 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19243242	19243243	19243249	19243251	19243253	19243255
Customer Sample Reference	BH246	BH246	BH246	BH246	BH246	BH246
AGS Reference						
Depth (m)	5.00 - 6.00	6.00 - 7.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00
Container	1kg TUB 250g Amber jar 60g VOC (ALE215)	1kg TUB 250g Amber jar 60g VOC (ALE215)	1kg TUB 250g Amber jar 60g VOC (ALE215)	1kg TUB 250g Amber jar 60g VOC (ALE215)	1kg TUB 250g Amber jar 60g VOC (ALE215)	1kg TUB 250g Amber jar 60g VOC (ALE215)

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 33	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 33	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 33	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 33	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 32	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 32	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19243242	19243243	19243249	19243251	19243253	19243255
					BH246	BH246	BH246	BH246	BH246	BH246
			5.00 - 6.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)						
			6.00 - 7.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)						
			10.00 - 11.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)						
			12.00 - 13.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)						
			14.00 - 15.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)						
			16.00 - 17.00	1kg TUB 250g Amber Jar 60g VOC (ALE215)						
PCBs by GCMS	All	NDPs: 0 Tests: 32			X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 32			X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 32			X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 33			X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 32			X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 33			X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 32			X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 32			X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 32			X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH244	BH244	BH244	BH244	BH244	BH244
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243194	19243207	19243209	19243212	19243214	19243198
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	6.9	8.7	12	6.9	11	28
Loss on ignition	<0.7 %	TM018	1.88	0.892	1.61	<0.7	1.41	7.55
Mineral Oil Surrogate % recovery**	%	TM061	72.7	74.1	75.7	74.7	81.2	72.2
Mineral oil >C10-C40	<1 mg/kg	TM061	30.1	<1	<1	18.9	<1	27.8
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.9	0.244	0.374	0.464	0.459	2.99
pH	1 pH Units	TM133	8.55	9.19	9.04	8.79	8.27	7.44
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	22.9	4.05	4.61	6.99	8.53	11.9
Cadmium	<0.02 mg/kg	TM181	5.54	0.645	0.796	1.63	1.06	1.24
Chromium	<0.9 mg/kg	TM181	7.65	3.27	4.91	5.54	6.12	14.6
Copper	<1.4 mg/kg	TM181	215	7.2	9.91	18	17.9	112
Lead	<0.7 mg/kg	TM181	448	4.5	4.77	11.1	10.3	219
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	3.53
Nickel	<0.2 mg/kg	TM181	21.3	11.5	17.3	29.3	26.6	23.6
Selenium	<1 mg/kg	TM181	<1	1.21	2.41	2.34	2.51	1.1
Zinc	<1.9 mg/kg	TM181	1670	46.5	50.9	79.9	67.9	257
ANC @ pH 4	<0.03 mol/kg	TM182	0.127	0.166	0.159	0.851	1.12	0.717
ANC @ pH 6	<0.03 mol/kg	TM182	0.0542	0.0841	0.0784	0.215	0.16	0.0564
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	16.6	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	237	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH244	BH244	BH244	BH244	BH244	BH245
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	8.00 - 9.00	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243199	19243202	19243203	19243204	19243205	19243216
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	25	14	4.3	3.1	1.2	7.6
Loss on ignition	<0.7 %	TM018	5.22	1.81	1.54	<0.7	<0.7	1.95
Mineral Oil Surrogate % recovery**	%	TM061	79.3	73.9	70.5	74.5	72	72.4
Mineral oil >C10-C40	<1 mg/kg	TM061	29.5	263	423	171	71.7	75.5
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.2	<0.2	0.0413	<0.01	0.0108
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.2	<0.2	0.0103	<0.01	0.0216
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.3	<0.3	0.0619	<0.015	0.0541
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.2	<0.2	0.0206	<0.01	0.0325
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	2.88	0.606	0.402	0.132	0.119
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	2.88	0.606	0.537	0.132	0.238
Organic Carbon, Total	<0.2 %	TM132	2.09	1.48	0.498	0.306	0.411	0.463
pH	1 pH Units	TM133	7.47	7.99	8.67	8.68	9.28	10.8
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11.9	8.88	3.74	5.5	5.04	10.7
Cadmium	<0.02 mg/kg	TM181	1.08	0.621	0.341	0.762	0.668	0.534
Chromium	<0.9 mg/kg	TM181	12.9	7.65	3.49	4.21	4.72	4.93
Copper	<1.4 mg/kg	TM181	52.3	15	7.86	6.59	8.48	17.4
Lead	<0.7 mg/kg	TM181	113	29.3	8.13	6.68	7.04	23.2
Mercury	<0.14 mg/kg	TM181	0.724	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	21.7	18.7	8.15	13.3	13.6	6.85
Selenium	<1 mg/kg	TM181	1.03	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	200	95.3	25.6	42.3	44.5	124
ANC @ pH 4	<0.03 mol/kg	TM182	0.376	0.274	0.112	0.11	0.0953	0.313
ANC @ pH 6	<0.03 mol/kg	TM182	0.0757	0.0674	0.06	0.0601	0.0643	0.153
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	202	135	125	69.2	42.4
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH245	BH245	BH245	BH245	BH245	BH245
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00 - 2.00	12.00 - 13.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
tot.unfilt	Total / unfiltered sample.		190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
* Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery. 1-3*§@ Sample deviation (see appendix)			19243217	19243229	19243232	19243218	19243219	19243220
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	29	13	5.7	23	20	29
Loss on ignition	<0.7 %	TM018		5.14	1.83	5.16	4.27	6.01
Mineral Oil Surrogate % recovery**	%	TM061		73	71.2	71	73.8	79.5
Mineral oil >C10-C40	<1 mg/kg	TM061		15.8	8.14	202	1740	2420
Phenol	<0.01 mg/kg	TM062 (S)		<0.1	<0.01	1.52	<0.4	0.973
Cresols	<0.01 mg/kg	TM062 (S)		<0.1	<0.01	2.44	0.938	2.62
Xylenols	<0.015 mg/kg	TM062 (S)		<0.15	0.0212	1.46	29	3.95
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)		<0.1	<0.01	<0.1	34.4	14.7
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)		<0.15	0.117	12.6	221	123
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)		<0.06	0.138	18	286	146
Organic Carbon, Total	<0.2 %	TM132		0.34	0.695	4.75	1.71	2.42
pH	1 pH Units	TM133		8.81	8.28	7.65	7.31	7.72
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168		<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181		5.86	8.84	13.7	11.6	11.7
Cadmium	<0.02 mg/kg	TM181		1.04	1.37	0.664	0.421	0.775
Chromium	<0.9 mg/kg	TM181		3.53	6.52	12.7	8.37	13.2
Copper	<1.4 mg/kg	TM181		12.5	22.3	44.5	23.6	41.7
Lead	<0.7 mg/kg	TM181		7.86	15.3	268	96.5	77.6
Mercury	<0.14 mg/kg	TM181		<0.14	<0.14	0.158	0.225	0.343
Nickel	<0.2 mg/kg	TM181		20.1	30	19	16	21.6
Selenium	<1 mg/kg	TM181		1.82	2.71	1.12	<1	1.08
Zinc	<1.9 mg/kg	TM181		61.4	64.4	98.9	49.8	82.3
ANC @ pH 4	<0.03 mol/kg	TM182		0.338	1.04	0.244	0.143	0.299
ANC @ pH 6	<0.03 mol/kg	TM182		0.191	0.176	0.0556	0.0509	0.0555
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410		<10	<10	219	1560	557
Moisture Corrected Coronene	<200 µg/kg	TM410		<200	<200	<200	252	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH245	BH245	BH245	BH245	BH246	BH246
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.50 - 1.00	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	22/01/2019	23/01/2019	23/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243221	19243222	19243225	19243226	19243236	19243237
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	9	18	11	8.2	19	28
Loss on ignition	<0.7 %	TM018	1.35	2.38	1.15	<0.7	6.08	3.86
Mineral Oil Surrogate % recovery**	%	TM061	70.4	81.2	74.1	82.2	78.3	80.2
Mineral oil >C10-C40	<1 mg/kg	TM061	192	825	97.9	<1	56.1	1.04
Phenol	<0.01 mg/kg	TM062 (S)	0.462	0.83	0.325	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	1.3	0.891	0.112	0.0109	0.0123	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	11.4	2.28	0.493	<0.015	0.0246	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	7.59	10.2	0.381	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	103	68	0.739	0.0981	0.0861	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	124	82.1	2.05	0.109	0.123	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.82	1.12	0.404	<0.2	4.85	2.44
pH	1 pH Units	TM133	8.33	7.94	8.66	9.3	7.95	7.61
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	6.35	7.63	8.31	3.46	37.4	13.2
Cadmium	<0.02 mg/kg	TM181	0.576	0.313	0.572	0.809	1.26	0.638
Chromium	<0.9 mg/kg	TM181	6.42	7.67	5.28	4.78	15.4	13.2
Copper	<1.4 mg/kg	TM181	10.8	9.74	10	6.17	186	64.2
Lead	<0.7 mg/kg	TM181	21.2	21	9.33	3.71	252	116
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	0.515	0.612
Nickel	<0.2 mg/kg	TM181	13	11.7	17.8	12.7	29.3	24.7
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	43	43.2	51.9	68.6	385	100
ANC @ pH 4	<0.03 mol/kg	TM182	0.112	0.101	0.177	0.0662	0.193	0.536
ANC @ pH 6	<0.03 mol/kg	TM182	0.0603	0.0543	0.0788	0.0448	0.054	0.064
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	176	281	21.4	<10	21.3	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH246	BH246	BH246	BH246	BH246	BH246
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243249	19243251	19243253	19243255	19243239	19243240
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	11	9.5	9.7	8.8	28	27
Loss on ignition	<0.7 %	TM018	1.14	2.87	2.5	1.82	6.38	5.89
Mineral Oil Surrogate % recovery**	%	TM061	80.1	72.5	79.5	73.9	73	78.1
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	17.2	13.4	529	786
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.1 @ M	<0.2 @ M
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.1 @ M	<0.2 @ M
Xylenols	<0.015 mg/kg	TM062 (S)	0.0452 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.15 @ M	0.414 @ M
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	0.0113 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.1 @ M	1.23 @ M
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	0.0678 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M	1.45 @ M	5.46 @ M
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	0.124 @ M	<0.06 @ M	<0.06 @ M	<0.06 @ M	1.45 @ M	7.11 @ M
Organic Carbon, Total	<0.2 %	TM132	0.351 M	0.615 M	0.71 M	0.738 M	2.49 M	2.18 M
pH	1 pH Units	TM133	9.23 M	8.54 M	8.11 M	8.21 M	7.67 M	7.74 M
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #
PCB congener 28	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	4.61 M	7.75 M	8.49 M	8.69 M	12.4 M	11.9 M
Cadmium	<0.02 mg/kg	TM181	0.707 M	1.24 M	1.4 M	1.89 M	0.659 M	0.569 M
Chromium	<0.9 mg/kg	TM181	3.85 M	8.68 M	6.08 M	5.57 M	12 M	10.2 M
Copper	<1.4 mg/kg	TM181	8.08 M	20.8 M	22.8 M	20.9 M	48.9 M	34.2 M
Lead	<0.7 mg/kg	TM181	5.72 M	17.1 M	14.5 M	14.1 M	87 M	78.8 M
Mercury	<0.14 mg/kg	TM181	<0.14 M	<0.14 M	<0.14 M	<0.14 M	0.561 M	0.546 M
Nickel	<0.2 mg/kg	TM181	12.9 M	31.8 M	28 M	29 M	22.1 M	19.4 M
Selenium	<1 mg/kg	TM181	1.39 #	2.42 #	3.57 #	2.39 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181	57.7 M	78.1 M	61.5 M	83.6 M	96.4 M	76.1 M
ANC @ pH 4	<0.03 mol/kg	TM182	0.0916	1.04	0.96	0.68	0.531	0.255
ANC @ pH 6	<0.03 mol/kg	TM182	0.0579	0.252	0.0878	0.144	0.0842	0.0534
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	248	644
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	662



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH246	BH246	BH246			
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00			
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
		Date Sampled	23/01/2019	23/01/2019	23/01/2019			
		Date Received	30/01/2019	30/01/2019	30/01/2019			
		SDG Ref	190131-81	190131-81	190131-81			
		Lab Sample No.(s)	19243241	19243242	19243243			
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	20	16	14			
Loss on ignition	<0.7 %	TM018	3.01	1.62	1.93			
Mineral Oil Surrogate % recovery**	%	TM061	80.5	81.5	81.7			
Mineral oil >C10-C40	<1 mg/kg	TM061	168	51	31.5			
Phenol	<0.01 mg/kg	TM062 (S)	<0.1	<0.1	<0.1			
Cresols	<0.01 mg/kg	TM062 (S)	<0.1	<0.1	<0.1			
Xylenols	<0.015 mg/kg	TM062 (S)	<0.15	<0.15	0.302			
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	0.338	<0.1	0.174			
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	2.23	0.393	1.25			
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	2.56	0.393	1.73			
Organic Carbon, Total	<0.2 %	TM132	1.83	0.777	0.697			
pH	1 pH Units	TM133	7.91	8.26	8.39			
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6			
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3			
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21			
Arsenic	<0.6 mg/kg	TM181	13.2	8.57	9.07			
Cadmium	<0.02 mg/kg	TM181	0.663	0.292	0.618			
Chromium	<0.9 mg/kg	TM181	7.96	8.33	5.36			
Copper	<1.4 mg/kg	TM181	58.7	11.6	13			
Lead	<0.7 mg/kg	TM181	115	24.2	14.7			
Mercury	<0.14 mg/kg	TM181	0.317	<0.14	<0.14			
Nickel	<0.2 mg/kg	TM181	18.5	15.7	15.9			
Selenium	<1 mg/kg	TM181	<1	<1	1.22			
Zinc	<1.9 mg/kg	TM181	179	46.3	61.8			
ANC @ pH 4	<0.03 mol/kg	TM182	0.188	0.194	0.222			
ANC @ pH 6	<0.03 mol/kg	TM182	0.0497	0.0975	0.0855			
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	122	14	14.1			
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH244	BH244	BH244	BH244	BH244	BH244
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243194	19243207	19243209	19243212	19243214	19243198
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	113	116	113	118	109	113
Acenaphthene-d10 % recovery**	%	TM218	112	112	101	116	110	113
Phenanthrene-d10 % recovery**	%	TM218	114	116	103	114	108	114
Chrysene-d12 % recovery**	%	TM218	118	115	88.7	103	95.6	103
Perylene-d12 % recovery**	%	TM218	105	118	83.4	92.2	91.1	95.8
Naphthalene	<9 µg/kg	TM218	121	35.4	11.5	370	21.9	16
Acenaphthylene	<12 µg/kg	TM218	163	<12	<12	21.2	<12	<12
Acenaphthene	<8 µg/kg	TM218	89.4	57.8	11.9	653	29.9	<8
Fluorene	<10 µg/kg	TM218	141	61.8	13.2	570	30	25.8
Phenanthrene	<15 µg/kg	TM218	1970	131	44.4	1710	86.3	129
Anthracene	<16 µg/kg	TM218	350	42.3	<16	249	<16	78.9
Fluoranthene	<17 µg/kg	TM218	2950	109	<17	519	24.1	275
Pyrene	<15 µg/kg	TM218	2600	83.5	<15	327	17	224
Benz(a)anthracene	<14 µg/kg	TM218	1320	20.5	<14	55.5	<14	155
Chrysene	<10 µg/kg	TM218	1260	17	<10	54.2	<10	141
Benzo(b)fluoranthene	<15 µg/kg	TM218	1940	<15	<15	33	<15	185
Benzo(k)fluoranthene	<14 µg/kg	TM218	590	<14	<14	<14	<14	74.6
Benzo(a)pyrene	<15 µg/kg	TM218	1280	<15	<15	<15	<15	117
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	685	<18	<18	<18	<18	53.8
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	122	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	761	<24	<24	<24	<24	64.5
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	16300	558	<118	4570	209	1540



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH245	BH245	BH245	BH245	BH245	BH245
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	12.00 - 13.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243229	19243232	19243218	19243219	19243220	19243221
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	116	108	110	219	190	117
Acenaphthene-d10 % recovery**	%	TM218	114	108	116	97.5	114	112
Phenanthrene-d10 % recovery**	%	TM218	112	105	121	141	126	109
Chrysene-d12 % recovery**	%	TM218	95.6	92.8	111	104	97	93.8
Perylene-d12 % recovery**	%	TM218	85.6	84.6	100	100	114	88.9
Naphthalene	<9 µg/kg	TM218	357	601	22900	373000	96200	19300
			M	M	M	M	M	@ M
Acenaphthylene	<12 µg/kg	TM218	79.1	12.8	1970	12700	10300	1670
			M	M	M	M	M	@ M
Acenaphthene	<8 µg/kg	TM218	266	217	38800	230000	89300	30200
			M	M	M	M	M	@ M
Fluorene	<10 µg/kg	TM218	203	176	31700	175000	73900	23500
			M	M	M	M	M	@ M
Phenanthrene	<15 µg/kg	TM218	590	418	63400	434000	107000	59000
			M	M	M	M	M	@ M
Anthracene	<16 µg/kg	TM218	139	84	17500	82600	41800	10400
			M	M	M	M	M	@ M
Fluoranthene	<17 µg/kg	TM218	277	110	20900	127000	57000	16800
			M	M	M	M	M	@ M
Pyrene	<15 µg/kg	TM218	178	78.4	14000	81800	44800	11000
			M	M	M	M	M	@ M
Benz(a)anthracene	<14 µg/kg	TM218	36.6	<14	2510	14000	10900	1650
			M	M	M	M	M	@ M
Chrysene	<10 µg/kg	TM218	29	16.9	2200	11500	9080	1510
			M	M	M	M	M	@ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	21.4	<15	1420	6380	5670	479
			M	M	M	M	M	@ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	602	2710	2230	232
			M	M	M	M	M	@ M
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	1000	4850	4700	562
			M	M	M	M	M	@ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	347	1610	1310	<180
			M	M	M	M	M	@ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	75.1	<1150	362	<230
			M	M	M	M	M	@ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	331	1920	1600	<240
			M	M	M	M	M	@ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2180	1710	219000	1560000	557000	176000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH245	BH245	BH245	BH246	BH246	BH246
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	23/01/2019	23/01/2019	23/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243222	19243225	19243226	19243236	19243237	19243249
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	129	111	109	110	110	110
Acenaphthene-d10 % recovery**	%	TM218	113	103	109	111	112	110
Phenanthrene-d10 % recovery**	%	TM218	117	104	105	106	109	109
Chrysene-d12 % recovery**	%	TM218	105	95.5	95.7	94.5	102	100
Perylene-d12 % recovery**	%	TM218	117	91.6	95.2	95.3	100	101
Naphthalene	<9 µg/kg	TM218	48900	688	114	641	358	163
			M	@ M	M	M	M	M
Acenaphthylene	<12 µg/kg	TM218	3380	1620	<12	154	20.5	<12
			M	@ M	M	M	M	M
Acenaphthene	<8 µg/kg	TM218	46700	5150	67.2	808	406	56.3
			M	@ M	M	M	M	M
Fluorene	<10 µg/kg	TM218	38200	2400	54.8	513	182	52.3
			M	@ M	M	M	M	M
Phenanthrene	<15 µg/kg	TM218	62900	2600	125	2410	425	120
			M	@ M	M	M	M	M
Anthracene	<16 µg/kg	TM218	17600	1800	34.9	812	153	33.7
			M	@ M	M	M	M	M
Fluoranthene	<17 µg/kg	TM218	29900	3500	72.8	4630	494	59.3
			M	@ M	M	M	M	M
Pyrene	<15 µg/kg	TM218	20500	2280	51.5	3520	377	44.4
			M	@ M	M	M	M	M
Benz(a)anthracene	<14 µg/kg	TM218	4180	416	<14	1320	158	<14
			M	@ M	M	M	M	M
Chrysene	<10 µg/kg	TM218	3280	374	<10	1430	153	<10
			M	@ M	M	M	M	M
Benzo(b)fluoranthene	<15 µg/kg	TM218	2160	217	<15	1650	150	<15
			M	@ M	M	M	M	M
Benzo(k)fluoranthene	<14 µg/kg	TM218	688	95.2	<14	629	72.1	<14
			M	@ M	M	M	M	M
Benzo(a)pyrene	<15 µg/kg	TM218	1520	141	<15	1240	116	<15
			M	@ M	M	M	M	M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	363	30.7	<18	576	53.1	<18
			M	@ M	M	M	M	M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	100	<23	<23	172	<23	<23
			M	@ M	M	M	M	M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	421	42.3	<24	791	69.5	<24
			M	@ M	M	M	M	M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	281000	21400	520	21300	3190	529



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH246	BH246	BH246	BH246	BH246	BH246
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243251	19243253	19243255	19243239	19243240	19243241
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	107	107	110	98.9	109	111
Acenaphthene-d10 % recovery**	%	TM218	110	107	109	123	128	116
Phenanthrene-d10 % recovery**	%	TM218	107	105	106	132	113	110
Chrysene-d12 % recovery**	%	TM218	98.5	93.5	95	113	105	99.7
Perylene-d12 % recovery**	%	TM218	94.1	88.5	87.3	114	113	101
Naphthalene	<9 µg/kg	TM218	159	166	169	37400	229000	18000
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	4690	10400	1720
Acenaphthene	<8 µg/kg	TM218	57.2	58.2	76.2	32700	67900	16200
Fluorene	<10 µg/kg	TM218	45.3	50.8	71.2	28600	53000	12100
Phenanthrene	<15 µg/kg	TM218	122	141	196	54200	126000	28400
Anthracene	<16 µg/kg	TM218	20.8	28.2	30.4	18600	32600	7800
Fluoranthene	<17 µg/kg	TM218	37.4	63.2	57.3	28200	48800	15400
Pyrene	<15 µg/kg	TM218	26.9	45.3	45.5	21400	37300	11100
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	5870	10400	2860
Chrysene	<10 µg/kg	TM218	<10	11.5	13.5	4880	7720	2530
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	3800	6660	2130
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	1530	2760	859
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	3310	6290	1750
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	1080	2060	640
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	312	590	172
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	1300	2540	805
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	469	564	660	248000	644000	122000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH246	BH246				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	5.00 - 6.00	6.00 - 7.00				
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)				
aq	Aqueous / settled sample.		23/01/2019	23/01/2019				
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019				
tot.unfilt	Total / unfiltered sample.		190131-81	190131-81				
*	Subcontracted - refer to subcontractor report for accreditation status.		19243242	19243243				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Naphthalene-d8 % recovery**	%		TM218	116	111			
Acenaphthene-d10 % recovery**	%	TM218	110	112				
Phenanthrene-d10 % recovery**	%	TM218	113	106				
Chrysene-d12 % recovery**	%	TM218	108	96.9				
Perylene-d12 % recovery**	%	TM218	104	96.8				
Naphthalene	<9 µg/kg	TM218	2440	2040	M	M		
Acenaphthylene	<12 µg/kg	TM218	180	161	M	M		
Acenaphthene	<8 µg/kg	TM218	2000	2750	M	M		
Fluorene	<10 µg/kg	TM218	892	1050	M	M		
Phenanthrene	<15 µg/kg	TM218	2310	2200	M	M		
Anthracene	<16 µg/kg	TM218	912	927	M	M		
Fluoranthene	<17 µg/kg	TM218	2170	2090	M	M		
Pyrene	<15 µg/kg	TM218	1650	1490	M	M		
Benz(a)anthracene	<14 µg/kg	TM218	420	360	M	M		
Chrysene	<10 µg/kg	TM218	323	322	M	M		
Benzo(b)fluoranthene	<15 µg/kg	TM218	216	230	M	M		
Benzo(k)fluoranthene	<14 µg/kg	TM218	76.7	97.3	M	M		
Benzo(a)pyrene	<15 µg/kg	TM218	233	191	M	M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	74.2	66.3	M	M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	M	M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218	110	89.6	M	M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	14000	14100				



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH244	BH244	BH244	BH244	BH244	BH244	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
tot.unfilt	Total / unfiltered sample.		190131-81	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
*	Subcontracted - refer to subcontractor report for accreditation status.		19243194	19243207	19243209	19243212	19243214	19243198	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
GRO Surrogate % recovery**	%		TM089	87 @	92 @	85 @	49.4 @	18.3 @	87 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @ M	<100 @ M	<100 @ M	450 @ M	<100 @ M	<100 @ M	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	19.3 @	<10 @	<10 @	
Aliphatics >C6-C8	<10 µg/kg	TM089	11.8 @	<10 @	<10 @	38.7 @	<10 @	22.4 @	
Aliphatics >C8-C10	<10 µg/kg	TM089	11.8 @	<10 @	<10 @	61.2 @	<10 @	15.4 @	
Aliphatics >C10-C12	<10 µg/kg	TM089	11.8 @	<10 @	<10 @	173 @	<10 @	22.4 @	
Aliphatics >C12-C16	<100 µg/kg	TM173	1760 @	<100 @	<100 @	2260 @	1270 @	<100 @	
Aliphatics >C16-C21	<100 µg/kg	TM173	3270 @	<100 @	<100 @	3290 @	1950 @	3110 @	
Aliphatics >C21-C35	<100 µg/kg	TM173	19200 @	<100 @	<100 @	15500 @	9580 @	75900 @	
Aliphatics >C35-C44	<100 µg/kg	TM173	3280 @	<100 @	<100 @	2870 @	1650 @	19800 @	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	27500 @	<100 @	<100 @	23900 @	14500 @	98900 @	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	40.8 @	<10 @	11.2 @	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	115 @	<10 @	14 @	
Aromatics >EC12-EC16	<100 µg/kg	TM173	19600 @	661 @	<100 @	7210 @	1310 @	2000 @	
Aromatics >EC16-EC21	<100 µg/kg	TM173	95400 @	1480 @	<100 @	12300 @	2630 @	16100 @	
Aromatics >EC21-EC35	<100 µg/kg	TM173	193000 @	<100 @	<100 @	8160 @	6800 @	107000 @	
Aromatics >EC35-EC44	<100 µg/kg	TM173	44000 @	<100 @	<100 @	1090 @	1230 @	27100 @	
Aromatics >EC40-EC44	<100 µg/kg	TM173	12600 @	<100 @	<100 @	<100 @	<100 @	7480 @	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	352000 @	2140 @	<100 @	28700 @	12000 @	152000 @	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	380000 @	2140 @	<100 @	53000 @	26400 @	251000 @	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH244	BH244	BH244	BH244	BH244	BH245
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	8.00 - 9.00	0.50 - 1.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
tot.unfilt	Total / unfiltered sample.		190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
*	Subcontracted - refer to subcontractor report for accreditation status.		19243199	19243202	19243203	19243204	19243205	19243216
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	109 @	106 @	96.4 @	104 @	104 @	123 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	193 @ M	292000 @ M	59200 @ #	10200 @ M	2890 @ M	6790 @ #
Aliphatics >C5-C6	<10 µg/kg	TM089	16.1 @	438 @	218 @	21.7 @	17.2 @	33.5 @
Aliphatics >C6-C8	<10 µg/kg	TM089	38.9 @	1090 @	477 @	115 @	55.7 @	68.2 @
Aliphatics >C8-C10	<10 µg/kg	TM089	32.2 @	17400 @	4810 @	868 @	123 @	618 @
Aliphatics >C10-C12	<10 µg/kg	TM089	49.6 @	157000 @	30300 @	5140 @	1560 @	3390 @
Aliphatics >C12-C16	<100 µg/kg	TM173	663 @	138000 @	92800 @	105000 @	9860 @	27800 @
Aliphatics >C16-C21	<100 µg/kg	TM173	2110 @	182000 @	114000 @	128000 @	16800 @	60900 @
Aliphatics >C21-C35	<100 µg/kg	TM173	45200 @	91800 @	46600 @	54000 @	8280 @	270000 @
Aliphatics >C35-C44	<100 µg/kg	TM173	10900 @	4120 @	<100 @	1910 @	<100 @	75400 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173	58800 @	416000 @	254000 @	289000 @	34900 @	434000 @
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<200 @	<100 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<200 @	<100 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	21.4 @	11600 @	3210 @	579 @	82 @	412 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	33.5 @	105000 @	20200 @	3430 @	1040 @	2260 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	1420 @	558000 @	292000 @	318000 @	49700 @	60900 @
Aromatics >EC16-EC21	<100 µg/kg	TM173	9840 @	699000 @	395000 @	459000 @	98600 @	133000 @
Aromatics >EC21-EC35	<100 µg/kg	TM173	57800 @	222000 @	122000 @	147000 @	31000 @	152000 @
Aromatics >EC35-EC44	<100 µg/kg	TM173	15100 @	13500 @	5320 @	8110 @	<100 @	35700 @
Aromatics >EC40-EC44	<100 µg/kg	TM173	4430 @	3970 @	1400 @	2560 @	<100 @	9740 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	84200 @	1490000 @	814000 @	932000 @	179000 @	381000 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	143000 @	2200000 @	1130000 @	1230000 @	217000 @	822000 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH245	BH245	BH245	BH245	BH245	BH245
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	12.00 - 13.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243229	19243232	19243218	19243219	19243220	19243221
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	77	12	103	88.6	96.3	106
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	453 @ M	<100 @ M	77700 @ M	282000 @ M	659000 @ M	64100 @ M
Aliphatics >C5-C6	<10 µg/kg	TM089	12.7 @	<10 @	386 @	431 @	508 @	317 @
Aliphatics >C6-C8	<10 µg/kg	TM089	33.4 @	<10 @	664 @	1580 @	3280 @	622 @
Aliphatics >C8-C10	<10 µg/kg	TM089	61 @	<10 @	6500 @	37400 @	60900 @	6310 @
Aliphatics >C10-C12	<10 µg/kg	TM089	181 @	<10 @	39400 @	130000 @	331000 @	31500 @
Aliphatics >C12-C16	<100 µg/kg	TM173	375 @	1210 @	101000 @	523000 @	458000 @	194000 @
Aliphatics >C16-C21	<100 µg/kg	TM173	874 @	2110 @	80900 @	571000 @	413000 @	221000 @
Aliphatics >C21-C35	<100 µg/kg	TM173	11400 @	16200 @	46500 @	280000 @	209000 @	112000 @
Aliphatics >C35-C44	<100 µg/kg	TM173	3440 @	3180 @	3690 @	6950 @	7840 @	3680 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173	16100 @	22700 @	232000 @	1380000 @	1090000 @	532000 @
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<200 @	<200 @	<200 @	<200 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<200 @	709 @	1800 @	<200 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	41.4 @	<10 @	4330 @	25000 @	40600 @	4210 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	121 @	<10 @	26300 @	86900 @	221000 @	21000 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	2710 @	2180 @	486000 @	2320000 @	2320000 @	838000 @
Aromatics >EC16-EC21	<100 µg/kg	TM173	4130 @	2810 @	463000 @	2400000 @	2140000 @	935000 @
Aromatics >EC21-EC35	<100 µg/kg	TM173	4150 @	5260 @	180000 @	789000 @	810000 @	303000 @
Aromatics >EC35-EC44	<100 µg/kg	TM173	890 @	1100 @	21000 @	59500 @	76300 @	5480 @
Aromatics >EC40-EC44	<100 µg/kg	TM173	168 @	136 @	6050 @	17800 @	23200 @	<500 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	11900 @	11400 @	1150000 @	5570000 @	5350000 @	2080000 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	28400 @	34000 @	1460000 @	7230000 @	7090000 @	2680000 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH245	BH245	BH245	BH246	BH246	BH246
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	23/01/2019	23/01/2019	23/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243222	19243225	19243226	19243236	19243237	19243249
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	97.8 @	97 @	73.8 @	79 @	115 @	83 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	125000 @ M	7750 @ M	288 @ M	557 @ M	1620 @ M	<100 @ M
Aliphatics >C5-C6	<10 µg/kg	TM089	199 @	15.7 @	17.4 @	16 @	37.3 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	745 @	71.7 @	31.6 @	46.7 @	101 @	12.4 @
Aliphatics >C8-C10	<10 µg/kg	TM089	12200 @	732 @	43.6 @	78.7 @	248 @	12.4 @
Aliphatics >C10-C12	<10 µg/kg	TM089	62100 @	3860 @	99.2 @	216 @	631 @	27.1 @
Aliphatics >C12-C16	<100 µg/kg	TM173	153000 @	37500 @	<100 @	10600 @	<100 @	<100 @
Aliphatics >C16-C21	<100 µg/kg	TM173	179000 @	41200 @	<100 @	16300 @	3120 @	<100 @
Aliphatics >C21-C35	<100 µg/kg	TM173	94600 @	16500 @	<100 @	48500 @	16700 @	4430 @
Aliphatics >C35-C44	<100 µg/kg	TM173	3180 @	<100 @	<100 @	8220 @	2460 @	2050 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173	430000 @	95200 @	<100 @	83500 @	22300 @	6480 @
Aromatics >EC5-EC7	<10 µg/kg	TM089	<100 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	171 @	<10 @	<10 @	<10 @	11 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	8130 @	488 @	29.4 @	51.7 @	166 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	41400 @	2570 @	66.5 @	144 @	421 @	18.1 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	669000 @	39200 @	1710 @	20500 @	9670 @	672 @
Aromatics >EC16-EC21	<100 µg/kg	TM173	744000 @	49900 @	2870 @	71500 @	20400 @	1110 @
Aromatics >EC21-EC35	<100 µg/kg	TM173	266000 @	17900 @	2830 @	143000 @	68100 @	1760 @
Aromatics >EC35-EC44	<100 µg/kg	TM173	19800 @	726 @	<100 @	26000 @	14500 @	331 @
Aromatics >EC40-EC44	<100 µg/kg	TM173	4640 @	150 @	<100 @	6640 @	3990 @	<100 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1700000 @	108000 @	7400 @	261000 @	113000 @	3870 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2250000 @	211000 @	7690 @	345000 @	137000 @	10400 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH246	BH246	BH246	BH246	BH246	BH246
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
tot.unfilt	Total / unfiltered sample.		190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
*	Subcontracted - refer to subcontractor report for accreditation status.		19243251	19243253	19243255	19243239	19243240	19243241
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	25.9	23.6	15.2	100	114	101
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @ M	<100 @ M	<100 @ M	446000 @ M	234000 @ M	25700 @ M
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	261 @	504 @	171 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	2730 @	1510 @	369 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	65700 @	31300 @	2970 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	200000 @	107000 @	12100 @
Aliphatics >C12-C16	<100 µg/kg	TM173	321	1200	1540	128000	285000	57600
Aliphatics >C16-C21	<100 µg/kg	TM173	1210	1950	2360	83400	201000	47400
Aliphatics >C21-C35	<100 µg/kg	TM173	17100	21800	17500	52400	138000	45300
Aliphatics >C35-C44	<100 µg/kg	TM173	4270	9290	5840	3650	10200	3900
Total Aliphatics >C12-C44	<100 µg/kg	TM173	22900	34300	27200	268000	634000	154000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<100 @	<200 @	<100 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	632 @	315 @	<100 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	43800 @	20900 @	1980 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	133000 @	71700 @	8070 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	2020	1970	1540	553000	1060000	178000
Aromatics >EC16-EC21	<100 µg/kg	TM173	3530	3330	2700	544000	956000	197000
Aromatics >EC21-EC35	<100 µg/kg	TM173	7940	12300	9400	338000	626000	166000
Aromatics >EC35-EC44	<100 µg/kg	TM173	1140	4300	1980	38000	75200	25700
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	1480	<100	9120	18700	7000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	14600	21900	15600	1470000	2720000	565000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	37500	56100	42800	2190000	3590000	745000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH246	BH246			
#	ISO17025 accredited.						
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted - refer to subcontractor report for accreditation status.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.						
1-3*§@	Sample deviation (see appendix)						
		Depth (m)	5.00 - 6.00	6.00 - 7.00			
		Sample Type	Soil/Solid (S)	Soil/Solid (S)			
		Date Sampled	23/01/2019	23/01/2019			
		Date Received	30/01/2019	30/01/2019			
		SDG Ref	190131-81	190131-81			
		Lab Sample No.(s)	19243242	19243243			
		AGS Reference					
Component	LOD/Units	Method					
GRO Surrogate % recovery**	%	TM089	93	94			
			@	@			
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	3920	3510			
			@ M	@ M			
Aliphatics >C5-C6	<10 µg/kg	TM089	15.5	15.1			
			@	@			
Aliphatics >C6-C8	<10 µg/kg	TM089	105	60.3			
			@	@			
Aliphatics >C8-C10	<10 µg/kg	TM089	565	420			
			@	@			
Aliphatics >C10-C12	<10 µg/kg	TM089	1710	1630			
			@	@			
Aliphatics >C12-C16	<100 µg/kg	TM173	3680	10500			
Aliphatics >C16-C21	<100 µg/kg	TM173	2390	11100			
Aliphatics >C21-C35	<100 µg/kg	TM173	3350	19300			
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	3230			
Total Aliphatics >C12-C44	<100 µg/kg	TM173	9410	44100			
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10			
			@	@			
Aromatics >EC7-EC8	<10 µg/kg	TM089	13.1	<10			
			@	@			
Aromatics >EC8-EC10	<10 µg/kg	TM089	377	280			
			@	@			
Aromatics >EC10-EC12	<10 µg/kg	TM089	1140	1090			
			@	@			
Aromatics >EC12-EC16	<100 µg/kg	TM173	16400	35900			
Aromatics >EC16-EC21	<100 µg/kg	TM173	17400	46400			
Aromatics >EC21-EC35	<100 µg/kg	TM173	12200	35400			
Aromatics >EC35-EC44	<100 µg/kg	TM173	1610	5350			
Aromatics >EC40-EC44	<100 µg/kg	TM173	300	1340			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	47600	123000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	60900	171000			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH244	BH244	BH244	BH244	BH244	BH245	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH244	BH244	BH244	BH244	BH244	BH245	
M	mCERTS accredited.		3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	8.00 - 9.00	0.50 - 1.00	
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
diss.filt	Dissolved / filtered sample.		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	
tot.unfilt	Total / unfiltered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	
*	Subcontracted - refer to subcontractor report for accreditation status.		190131-81	190131-81	190131-81	190131-81	190131-81	190131-81	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.		19243199	19243202	19243203	19243204	19243205	19243216	
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%		TM116	114 @	113 @	111 @	114 @	114 @	112 @
Toluene-d8**	%	TM116	100 @	97.8 @	100 @	101 @	102 @	102 @	
4-Bromofluorobenzene**	%	TM116	96.3 @	91.2 @	95.1 @	99.6 @	103 @	98.3 @	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<200 @ M	<200 @	<200 @ M	<200 @ M	<200 @ #	
Benzene	<9 µg/kg	TM116	<180 @ M	<180 @ M	<180 @	<180 @ M	<180 @ M	<180 @ #	
Toluene	<7 µg/kg	TM116	<140 @ M	<140 @ M	<140 @	<140 @ M	<140 @ M	<140 @ #	
Ethylbenzene	<4 µg/kg	TM116	<80 @ M	387 @ M	<80 @	<80 @ M	<80 @ M	<80 @ #	
p/m-Xylene	<10 µg/kg	TM116	<200 @ #	987 @ #	<200 @	<200 @ #	<200 @ #	<200 @ #	
o-Xylene	<10 µg/kg	TM116	<200 @ M	573 @ M	<200 @	<200 @ M	<200 @ M	<200 @ #	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	1.56 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @	
Sum of BTEX	<40 µg/kg	TM116	<800 @	1950 @	<800 @	<800 @	<800 @	<800 @	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH245	BH245	BH245	BH245	BH245	BH245
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	12.00 - 13.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243229	19243232	19243218	19243219	19243220	19243221
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	110 @	113 @	125 @	115 @	104 @	121 @
Toluene-d8**	%	TM116	101 @	98.5 @	102 @	96.4 @	95.7 @	101 @
4-Bromofluorobenzene**	%	TM116	97 @	88.3 @	96.6 @	82.4 @	84.4 @	95.5 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Benzene	<9 µg/kg	TM116	<180 @ M	<180 @ M	<180 @ M	<180 @ M	668 @ M	<180 @ M
Toluene	<7 µg/kg	TM116	<140 @ M	<140 @ M	<140 @ M	778 @ M	5580 @ M	314 @ M
Ethylbenzene	<4 µg/kg	TM116	<80 @ M	<80 @ M	298 @ M	1530 @ M	3920 @ M	470 @ M
p/m-Xylene	<10 µg/kg	TM116	<200 @ #	<200 @ #	834 @ #	4680 @ #	12500 @ #	1520 @ #
o-Xylene	<10 µg/kg	TM116	<200 @ M	<200 @ M	557 @ M	2470 @ M	6320 @ M	833 @ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	1.39 @	7.15 @	18.8 @	2.35 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	1690 @	9460 @	29000 @	3140 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH245	BH245	BH245	BH246	BH246	BH246
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	22/01/2019	22/01/2019	22/01/2019	23/01/2019	23/01/2019	23/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243222	19243225	19243226	19243236	19243237	19243249
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	113 @	106 @	115 @	106 @	102 @	110 @
Toluene-d8**	%	TM116	99.5 @	101 @	102 @	101 @	101 @	100 @
4-Bromofluorobenzene**	%	TM116	92.2 @	102 @	102 @	96.2 @	98.2 @	95.6 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Benzene	<9 µg/kg	TM116	<180 @ M	<180 @ M	<180 @ M	<180 @ M	<180 @ M	<180 @ M
Toluene	<7 µg/kg	TM116	295 @ M	<140 @ M	<140 @ M	<140 @ M	<140 @ M	<140 @ M
Ethylbenzene	<4 µg/kg	TM116	536 @ M	<80 @ M	<80 @ M	<80 @ M	<80 @ M	<80 @ M
p/m-Xylene	<10 µg/kg	TM116	1630 @ #	<200 @ #	<200 @ #	<200 @ #	<200 @ #	<200 @ #
o-Xylene	<10 µg/kg	TM116	859 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	2.49 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	3320 @	<800 @	<800 @	<800 @	<800 @	<800 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH246	BH246	BH246	BH246	BH246	BH246
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-81	190131-81	190131-81	190131-81	190131-81	190131-81
		Lab Sample No.(s)	19243251	19243253	19243255	19243239	19243240	19243241
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	113	112	115	112	110	105
Toluene-d8**	%	TM116	101	98.2	97.4	97.6	96.4	100
4-Bromofluorobenzene**	%	TM116	92.7	80.4	85.7	83.4	88.2	99.9
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<10	<200	<200	<200
Benzene	<9 µg/kg	TM116	<180	<180	<9	<180	<180	<180
Toluene	<7 µg/kg	TM116	<140	<140	<7	824	2750	<140
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<4	2320	4050	<80
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<10	9290	14500	<200
o-Xylene	<10 µg/kg	TM116	<200	<200	<10	5040	7780	<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.02	14.3	22.3	<0.4
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<40	17500	29100	<800



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+§@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre	
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 0.00 - 0.50 SOLID 22/01/2019 00:00:00 04/02/2019 17:30:11 190131-81 19,243,194 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 10.00 - 11.00 SOLID 22/01/2019 00:00:00 05/02/2019 08:30:00 190131-81 19,243,207 TM048	07/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 12.00 - 13.00 SOLID 22/01/2019 00:00:00 05/02/2019 08:28:25 190131-81 19,243,209 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 14.00 - 15.00 SOLID 22/01/2019 00:00:00 05/02/2019 11:48:23 190131-81 19,243,212 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 16.00 - 17.00 SOLID 22/01/2019 00:00:00 05/02/2019 11:52:26 190131-81 19,243,214 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 2.00 - 3.00 SOLID 22/01/2019 00:00:00 04/02/2019 19:07:50 190131-81 19,243,198 TM048	06/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 2.00 - 3.00 SOLID 22/01/2019 00:00:00 04/02/2019 17:26:23 190131-81 19,243,199 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 3.00 - 4.00 SOLID 22/01/2019 00:00:00 05/02/2019 12:03:38 190131-81 19,243,202 TM048	07/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 5.00 - 6.00 SOLID 22/01/2019 00:00:00 04/02/2019 19:05:28 190131-81 19,243,203 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 6.00 - 7.00 SOLID 22/01/2019 00:00:00 05/02/2019 11:56:14 190131-81 19,243,204 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH244 NS Z 7.00 - 8.00 SOLID 22/01/2019 00:00:00 05/02/2019 11:58:17 190131-81 19,243,205 TM048	7/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 0.50 - 1.00 SOLID 22/01/2019 00:00:00 04/02/2019 19:03:06 190131-81 19,243,216 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 12.00 - 13.00 SOLID 22/01/2019 00:00:00 05/02/2019 11:43:28 190131-81 19,243,229 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 15.00 - 16.00 SOLID 22/01/2019 00:00:00 04/02/2019 09:41:54 190131-81 19,243,232 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 2.00 - 3.00 SOLID 22/01/2019 00:00:00 05/02/2019 12:04:13 190131-81 19,243,218 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 3.00 - 4.00 SOLID 22/01/2019 00:00:00 04/02/2019 17:28:07 190131-81 19,243,219 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 4.00 - 5.00 SOLID 22/01/2019 00:00:00 05/02/2019 11:54:13 190131-81 19,243,220 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 5.00 - 6.00 SOLID 22/01/2019 00:00:00 04/02/2019 17:31:44 190131-81 19,243,221 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 6.00 - 7.00 SOLID 22/01/2019 00:00:00 05/02/2019 08:01:09 190131-81 19,243,222 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 8.00 - 9.00 SOLID 22/01/2019 00:00:00 05/02/2019 11:41:07 190131-81 19,243,225 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH245 NS Z 9.00 - 10.00 SOLID 22/01/2019 00:00:00 04/02/2019 18:59:53 190131-81 19,243,226 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 0.50 - 1.00 SOLID 23/01/2019 00:00:00 05/02/2019 08:02:44 190131-81 19,243,236 TM048	07/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 1.00 - 2.00 SOLID 23/01/2019 00:00:00 02/02/2019 13:37:06 190131-81 19,243,237 TM048	06/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 10.00 - 11.00 SOLID 23/01/2019 00:00:00 05/02/2019 12:00:28 190131-81 19,243,249 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 12.00 - 13.00 SOLID 23/01/2019 00:00:00 04/02/2019 17:23:21 190131-81 19,243,251 TM048	07/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 14.00 - 15.00 SOLID 23/01/2019 00:00:00 04/02/2019 09:43:38 190131-81 19,243,253 TM048	05/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 16.00 - 17.00 SOLID 23/01/2019 00:00:00 04/02/2019 09:45:11 190131-81 19,243,255 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 2.00 - 3.00 SOLID 23/01/2019 00:00:00 02/02/2019 13:34:11 190131-81 19,243,239 TM048	7/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 3.00 - 4.00 SOLID 23/01/2019 00:00:00 05/02/2019 11:45:17 190131-81 19,243,240 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 4.00 - 5.00 SOLID 23/01/2019 00:00:00 02/02/2019 13:35:38 190131-81 19,243,241 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 5.00 - 6.00 SOLID 23/01/2019 00:00:00 02/02/2019 13:32:48 190131-81 19,243,242 TM048	06/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH246 NS Z 6.00 - 7.00 SOLID 23/01/2019 00:00:00 02/02/2019 13:31:25 190131-81 19,243,243 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.41
Dry Matter Content (%)	93.1

Case	
SDG	190131-81
Lab Sample Number(s)	19243194
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.90
Loss on Ignition (%)	1.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	30.1
PAH Sum of 17 (mg/kg)	16.6
pH (pH Units)	8.55
ANC to pH 6 (mol/kg)	0.0542
ANC to pH 4 (mol/kg)	0.127

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0215	<0.0005	0.215	<0.005	0.5	2	25
Barium	0.00771	<0.0002	0.0771	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00667	<0.0003	0.0667	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0224	<0.003	0.224	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	0.00289	<0.0002	0.0289	<0.002	0.5	10	50
Antimony	0.00121	<0.001	0.0121	<0.01	0.06	0.7	5
Selenium	0.00131	<0.001	0.0131	<0.01	0.1	0.5	7
Zinc	0.00361	<0.001	0.0361	<0.01	4	50	200
Chloride	13.3	<2	133	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	14.9	<2	149	<20	1000	20000	50000
Total Dissolved Solids	106	<5	1060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.11	<3	31.1	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	9.68
Conductivity (µS/cm)	139
Temperature (°C)	17.50
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:43:06



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.41
Dry Matter Content (%)	93.1

Case	
SDG	190131-81
Lab Sample Number(s)	19243194
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.90
Loss on Ignition (%)	1.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	30.1
PAH Sum of 17 (mg/kg)	16.6
pH (pH Units)	8.55
ANC to pH 6 (mol/kg)	0.0542
ANC to pH 4 (mol/kg)	0.127

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	9.68
Conductivity (µS/cm)	139
Temperature (°C)	17.50
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:43:06



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.125
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.9
Dry Matter Content (%)	72.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243198
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.99
Loss on Ignition (%)	7.55
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	27.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.44
ANC to pH 6 (mol/kg)	0.0564
ANC to pH 4 (mol/kg)	0.717

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00406	<0.0005	0.0406	<0.005	0.5	2	25
Barium	0.00913	<0.0002	0.0913	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0617	<0.003	0.617	<0.03	0.5	10	30
Nickel	0.00113	<0.0004	0.0113	<0.004	0.4	10	40
Lead	0.000642	<0.0002	0.00642	<0.002	0.5	10	50
Antimony	0.00395	<0.001	0.0395	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00573	<0.001	0.0573	<0.01	4	50	200
Chloride	7	<2	70	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	85.2	<2	852	<20	1000	20000	50000
Total Dissolved Solids	263	<5	2630	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.29	<3	82.9	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.15
Conductivity (µS/cm)	321
Temperature (°C)	14.80
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.125
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.9
Dry Matter Content (%)	72.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243198
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.99
Loss on Ignition (%)	7.55
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	27.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.44
ANC to pH 6 (mol/kg)	0.0564
ANC to pH 4 (mol/kg)	0.717

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.15
Conductivity (µS/cm)	321
Temperature (°C)	14.80
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243199
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.09
Loss on Ignition (%)	5.22
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.47
ANC to pH 6 (mol/kg)	0.0757
ANC to pH 4 (mol/kg)	0.376

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00319	<0.0005	0.0319	<0.005	0.5	2	25
Barium	0.00802	<0.0002	0.0802	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0351	<0.003	0.351	<0.03	0.5	10	30
Nickel	0.00115	<0.0004	0.0115	<0.004	0.4	10	40
Lead	0.000363	<0.0002	0.00363	<0.002	0.5	10	50
Antimony	0.00277	<0.001	0.0277	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00348	<0.001	0.0348	<0.01	4	50	200
Chloride	5.4	<2	54	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	81.1	<2	811	<20	1000	20000	50000
Total Dissolved Solids	240	<5	2400	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.19	<3	81.9	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.72
Conductivity (µS/cm)	311
Temperature (°C)	15.10
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243199
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.09
Loss on Ignition (%)	5.22
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.47
ANC to pH 6 (mol/kg)	0.0757
ANC to pH 4 (mol/kg)	0.376

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.72
Conductivity (µS/cm)	311
Temperature (°C)	15.10
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243202
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	1.81
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	263
PAH Sum of 17 (mg/kg)	202
pH (pH Units)	7.99
ANC to pH 6 (mol/kg)	0.0674
ANC to pH 4 (mol/kg)	0.274

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00213	<0.0005	0.0213	<0.005	0.5	2	25
Barium	0.00641	<0.0002	0.0641	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00178	<0.0003	0.0178	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0168	<0.003	0.168	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00391	<0.001	0.0391	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00233	<0.001	0.0233	<0.01	4	50	200
Chloride	7.1	<2	71	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	154	<5	1540	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.05	<0.016	0.5	<0.16	1	-	-
Dissolved Organic Carbon	13.7	<3	137	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	201
Temperature (°C)	17.80
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243202
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	1.81
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	263
PAH Sum of 17 (mg/kg)	202
pH (pH Units)	7.99
ANC to pH 6 (mol/kg)	0.0674
ANC to pH 4 (mol/kg)	0.274

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	201
Temperature (°C)	17.80
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	4.49
Dry Matter Content (%)	95.7

Case	
SDG	190131-81
Lab Sample Number(s)	19243203
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.498
Loss on Ignition (%)	1.54
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	423
PAH Sum of 17 (mg/kg)	135
pH (pH Units)	8.67
ANC to pH 6 (mol/kg)	0.0600
ANC to pH 4 (mol/kg)	0.112

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00256	<0.0005	0.0256	<0.005	0.5	2	25
Barium	0.00305	<0.0002	0.0305	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00127	<0.0003	0.0127	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00122	<0.0004	0.0122	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00129	<0.001	0.0129	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	5.9	<2	59	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	3.1	<2	31	<20	1000	20000	50000
Total Dissolved Solids	53.7	<5	537	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.04	<0.016	0.4	<0.16	1	-	-
Dissolved Organic Carbon	7.53	<3	75.3	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.29
Conductivity (µS/cm)	66.6
Temperature (°C)	16.90
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	4.49
Dry Matter Content (%)	95.7

Case	
SDG	190131-81
Lab Sample Number(s)	19243203
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.498
Loss on Ignition (%)	1.54
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	423
PAH Sum of 17 (mg/kg)	135
pH (pH Units)	8.67
ANC to pH 6 (mol/kg)	0.0600
ANC to pH 4 (mol/kg)	0.112

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.29
Conductivity (µS/cm)	66.6
Temperature (°C)	16.90
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	3.20
Dry Matter Content (%)	96.9

Case	
SDG	190131-81
Lab Sample Number(s)	19243204
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.306
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	171
PAH Sum of 17 (mg/kg)	125
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.0601
ANC to pH 4 (mol/kg)	0.110

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00538	<0.0005	0.0538	<0.005	0.5	2	25
Barium	0.00426	<0.0002	0.0426	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0016	<0.0003	0.016	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00814	<0.003	0.0814	<0.03	0.5	10	30
Nickel	0.00143	<0.0004	0.0143	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0029	<0.001	0.029	<0.01	0.06	0.7	5
Selenium	0.0012	<0.001	0.012	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	16.7	<2	167	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	8	<2	80	<20	1000	20000	50000
Total Dissolved Solids	96.6	<5	966	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.17	<3	51.7	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	130
Temperature (°C)	17.30
Volume Leachant (Litres)	0.897

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.092	Natural Moisture Content (%)	3.20
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	96.9
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243204
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.306
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	171
PAH Sum of 17 (mg/kg)	125
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.0601
ANC to pH 4 (mol/kg)	0.110

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	130
Temperature (°C)	17.30
Volume Leachant (Litres)	0.897

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.091
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	1.21
Dry Matter Content (%)	98.8

Case	
SDG	190131-81
Lab Sample Number(s)	19243205
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.411
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	71.7
PAH Sum of 17 (mg/kg)	69.2
pH (pH Units)	9.28
ANC to pH 6 (mol/kg)	0.0643
ANC to pH 4 (mol/kg)	0.0953

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00311	<0.0005	0.0311	<0.005	0.5	2	25
Barium	0.00702	<0.0002	0.0702	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000469	<0.0003	0.00469	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00452	<0.003	0.0452	<0.03	0.5	10	30
Nickel	0.000455	<0.0004	0.00455	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.001	<0.001	0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	19.4	<2	194	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	9.3	<2	93	<20	1000	20000	50000
Total Dissolved Solids	108	<5	1080	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.87
Conductivity (µS/cm)	147
Temperature (°C)	17.20
Volume Leachant (Litres)	0.899

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.091	Natural Moisture Content (%)	1.21
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	98.8
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243205
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.411
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	71.7
PAH Sum of 17 (mg/kg)	69.2
pH (pH Units)	9.28
ANC to pH 6 (mol/kg)	0.0643
ANC to pH 4 (mol/kg)	0.0953

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.87
Conductivity (µS/cm)	147
Temperature (°C)	17.20
Volume Leachant (Litres)	0.899

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.53
Dry Matter Content (%)	91.3

Case	
SDG	190131-81
Lab Sample Number(s)	19243207
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.244
Loss on Ignition (%)	0.892
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.19
ANC to pH 6 (mol/kg)	0.0841
ANC to pH 4 (mol/kg)	0.166

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000931	<0.0005	0.00931	<0.005	0.5	2	25
Barium	0.00487	<0.0002	0.0487	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00068	<0.0003	0.0068	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000407	<0.0004	0.00407	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00143	<0.001	0.0143	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	74	<2	740	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.5	<2	125	<20	1000	20000	50000
Total Dissolved Solids	235	<5	2350	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.84
Conductivity (µS/cm)	310
Temperature (°C)	16.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.53
Dry Matter Content (%)	91.3

Case	
SDG	190131-81
Lab Sample Number(s)	19243207
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.244
Loss on Ignition (%)	0.892
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.19
ANC to pH 6 (mol/kg)	0.0841
ANC to pH 4 (mol/kg)	0.166

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.84
Conductivity (µS/cm)	310
Temperature (°C)	16.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243209
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.374
Loss on Ignition (%)	1.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.04
ANC to pH 6 (mol/kg)	0.0784
ANC to pH 4 (mol/kg)	0.159

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000919	<0.0005	0.00919	<0.005	0.5	2	25
Barium	0.053	<0.0002	0.53	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000788	<0.0003	0.00788	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000423	<0.0004	0.00423	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00194	<0.001	0.0194	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	198	<4	1980	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	31.5	<2	315	<20	1000	20000	50000
Total Dissolved Solids	578	<5	5780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	9.29
Conductivity (µS/cm)	769
Temperature (°C)	16.40
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243209
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.374
Loss on Ignition (%)	1.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.04
ANC to pH 6 (mol/kg)	0.0784
ANC to pH 4 (mol/kg)	0.159

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	9.29
Conductivity (µS/cm)	769
Temperature (°C)	16.40
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.41
Dry Matter Content (%)	93.1

Case	
SDG	190131-81
Lab Sample Number(s)	19243212
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.464
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.79
ANC to pH 6 (mol/kg)	0.215
ANC to pH 4 (mol/kg)	0.851

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00112	<0.0005	0.0112	<0.005	0.5	2	25
Barium	0.0713	<0.0002	0.713	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000998	<0.0003	0.00998	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0101	<0.003	0.101	<0.03	0.5	10	30
Nickel	0.000815	<0.0004	0.00815	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00347	<0.001	0.0347	<0.01	0.06	0.7	5
Selenium	0.029	<0.001	0.29	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	191	<2	1910	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	34.7	<2	347	<20	1000	20000	50000
Total Dissolved Solids	532	<5	5320	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.95
Conductivity (µS/cm)	715
Temperature (°C)	17.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.41
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.1
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243212
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.464
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.79
ANC to pH 6 (mol/kg)	0.215
ANC to pH 4 (mol/kg)	0.851

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.95
Conductivity (µS/cm)	715
Temperature (°C)	17.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243214
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.459
Loss on Ignition (%)	1.41
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.160
ANC to pH 4 (mol/kg)	1.12

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0666	<0.0002	0.666	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000696	<0.0003	0.00696	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0161	<0.003	0.161	<0.03	0.5	10	30
Nickel	0.00142	<0.0004	0.0142	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00308	<0.001	0.0308	<0.01	0.06	0.7	5
Selenium	0.0263	<0.001	0.263	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	251	<4	2510	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	43.2	<2	432	<20	1000	20000	50000
Total Dissolved Solids	671	<5	6710	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.92
Conductivity (µS/cm)	864
Temperature (°C)	17.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243214
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH244
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.459
Loss on Ignition (%)	1.41
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.160
ANC to pH 4 (mol/kg)	1.12

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.92
Conductivity (µS/cm)	864
Temperature (°C)	17.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.23
Dry Matter Content (%)	92.4

Case	
SDG	190131-81
Lab Sample Number(s)	19243216
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.463
Loss on Ignition (%)	1.95
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	75.5
PAH Sum of 17 (mg/kg)	42.4
pH (pH Units)	10.83
ANC to pH 6 (mol/kg)	0.153
ANC to pH 4 (mol/kg)	0.313

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0028	<0.0005	0.028	<0.005	0.5	2	25
Barium	0.0121	<0.0002	0.121	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00691	<0.001	0.0691	<0.01	0.5	10	70
Copper	0.0195	<0.0003	0.195	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00662	<0.003	0.0662	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	0.00026	<0.0002	0.0026	<0.002	0.5	10	50
Antimony	0.00237	<0.001	0.0237	<0.01	0.06	0.7	5
Selenium	0.00229	<0.001	0.0229	<0.01	0.1	0.5	7
Zinc	0.00309	<0.001	0.0309	<0.01	4	50	200
Chloride	17.6	<2	176	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	19	<2	190	<20	1000	20000	50000
Total Dissolved Solids	324	<5	3240	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.03	<3	60.3	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	10.83
Conductivity (µS/cm)	440
Temperature (°C)	16.60
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.23
Dry Matter Content (%)	92.4

Case	
SDG	190131-81
Lab Sample Number(s)	19243216
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.463
Loss on Ignition (%)	1.95
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	75.5
PAH Sum of 17 (mg/kg)	42.4
pH (pH Units)	10.83
ANC to pH 6 (mol/kg)	0.153
ANC to pH 4 (mol/kg)	0.313

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	10.83
Conductivity (µS/cm)	440
Temperature (°C)	16.60
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.126
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	40.1
Dry Matter Content (%)	71.4

Case	
SDG	190131-81
Lab Sample Number(s)	19243217
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	-
Loss on Ignition (%)	-
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	-
Mineral Oil (mg/kg)	-
PAH Sum of 17 (mg/kg)	-
pH (pH Units)	-
ANC to pH 6 (mol/kg)	-
ANC to pH 4 (mol/kg)	-

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00584	<0.0005	0.0584	<0.005	0.5	2	25
Barium	0.00828	<0.0002	0.0828	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0392	<0.003	0.392	<0.03	0.5	10	30
Nickel	0.000988	<0.0004	0.00988	<0.004	0.4	10	40
Lead	0.000286	<0.0002	0.00286	<0.002	0.5	10	50
Antimony	0.00253	<0.001	0.0253	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00227	<0.001	0.0227	<0.01	4	50	200
Chloride	11.3	<2	113	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	141	<5	1410	<50	4000	60000	100000
Total Monohydric Phenols (W)	1.53	<0.016	15.3	<0.16	1	-	-
Dissolved Organic Carbon	41.1	<3	411	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.09
Conductivity (µS/cm)	181
Temperature (°C)	16.30
Volume Leachant (Litres)	0.864

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.126	Natural Moisture Content (%)	40.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	71.4
Particle Size <4mm	>95%		

Case

SDG	190131-81
Lab Sample Number(s)	19243217
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Solid Waste Analysis

Result	
Total Organic Carbon (%)	-
Loss on Ignition (%)	-
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	-
Mineral Oil (mg/kg)	-
PAH Sum of 17 (mg/kg)	-
pH (pH Units)	-
ANC to pH 6 (mol/kg)	-
ANC to pH 4 (mol/kg)	-

Eluate Analysis

	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.09
Conductivity (µS/cm)	181
Temperature (°C)	16.30
Volume Leachant (Litres)	0.864

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243218
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.75
Loss on Ignition (%)	5.16
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	202
PAH Sum of 17 (mg/kg)	219
pH (pH Units)	7.65
ANC to pH 6 (mol/kg)	0.0556
ANC to pH 4 (mol/kg)	0.244

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00404	<0.0005	0.0404	<0.005	0.5	2	25
Barium	0.00952	<0.0002	0.0952	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00336	<0.0003	0.0336	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0397	<0.003	0.397	<0.03	0.5	10	30
Nickel	0.00177	<0.0004	0.0177	<0.004	0.4	10	40
Lead	0.000316	<0.0002	0.00316	<0.002	0.5	10	50
Antimony	0.00549	<0.001	0.0549	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00321	<0.001	0.0321	<0.01	4	50	200
Chloride	6.8	<2	68	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10.2	<2	102	<20	1000	20000	50000
Total Dissolved Solids	172	<5	1720	<50	4000	60000	100000
Total Monohydric Phenols (W)	1.03	<0.016	10.3	<0.16	1	-	-
Dissolved Organic Carbon	25.4	<3	254	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.14
Conductivity (µS/cm)	230
Temperature (°C)	17.20
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243218
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.75
Loss on Ignition (%)	5.16
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	202
PAH Sum of 17 (mg/kg)	219
pH (pH Units)	7.65
ANC to pH 6 (mol/kg)	0.0556
ANC to pH 4 (mol/kg)	0.244

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.14
Conductivity (µS/cm)	230
Temperature (°C)	17.20
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243219
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	4.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1740
PAH Sum of 17 (mg/kg)	1560
pH (pH Units)	7.31
ANC to pH 6 (mol/kg)	0.0509
ANC to pH 4 (mol/kg)	0.143

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00563	<0.0005	0.0563	<0.005	0.5	2	25
Barium	0.00841	<0.0002	0.0841	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00103	<0.0003	0.0103	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.038	<0.003	0.38	<0.03	0.5	10	30
Nickel	0.00174	<0.0004	0.0174	<0.004	0.4	10	40
Lead	0.000222	<0.0002	0.00222	<0.002	0.5	10	50
Antimony	0.00434	<0.001	0.0434	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00221	<0.001	0.0221	<0.01	4	50	200
Chloride	8.4	<2	84	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	7.1	<2	71	<20	1000	20000	50000
Total Dissolved Solids	185	<5	1850	<50	4000	60000	100000
Total Monohydric Phenols (W)	3.27	<0.016	32.7	<0.16	1	-	-
Dissolved Organic Carbon	46.7	<3	467	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.13
Conductivity (µS/cm)	236
Temperature (°C)	14.60
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.113	Natural Moisture Content (%)	25.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	80.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243219
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	4.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1740
PAH Sum of 17 (mg/kg)	1560
pH (pH Units)	7.31
ANC to pH 6 (mol/kg)	0.0509
ANC to pH 4 (mol/kg)	0.143

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.13
Conductivity (µS/cm)	236
Temperature (°C)	14.60
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.127
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	40.8
Dry Matter Content (%)	71.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243220
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.42
Loss on Ignition (%)	6.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2420
PAH Sum of 17 (mg/kg)	557
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0555
ANC to pH 4 (mol/kg)	0.299

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00396	<0.0005	0.0396	<0.005	0.5	2	25
Barium	0.00524	<0.0002	0.0524	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00087	<0.0003	0.0087	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0466	<0.003	0.466	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	0.000354	<0.0002	0.00354	<0.002	0.5	10	50
Antimony	0.00301	<0.001	0.0301	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00113	<0.001	0.0113	<0.01	4	50	200
Chloride	11.4	<2	114	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	137	<5	1370	<50	4000	60000	100000
Total Monohydric Phenols (W)	5.36	<0.016	53.6	<0.16	1	-	-
Dissolved Organic Carbon	45	<3	450	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.62
Conductivity (µS/cm)	183
Temperature (°C)	17.50
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.127
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	40.8
Dry Matter Content (%)	71.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243220
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.42
Loss on Ignition (%)	6.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2420
PAH Sum of 17 (mg/kg)	557
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0555
ANC to pH 4 (mol/kg)	0.299

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.62
Conductivity (µS/cm)	183
Temperature (°C)	17.50
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.89
Dry Matter Content (%)	91.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243221
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.820
Loss on Ignition (%)	1.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	192
PAH Sum of 17 (mg/kg)	176
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0603
ANC to pH 4 (mol/kg)	0.112

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0031	<0.0005	0.031	<0.005	0.5	2	25
Barium	0.00274	<0.0002	0.0274	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00216	<0.0003	0.0216	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0204	<0.003	0.204	<0.03	0.5	10	30
Nickel	0.0013	<0.0004	0.013	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00509	<0.001	0.0509	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	12.3	<2	123	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	110	<5	1100	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.63	<0.016	6.3	<0.16	1	-	-
Dissolved Organic Carbon	18.1	<3	181	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.66
Conductivity (µS/cm)	149
Temperature (°C)	4.60
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.89
Dry Matter Content (%)	91.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243221
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.820
Loss on Ignition (%)	1.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	192
PAH Sum of 17 (mg/kg)	176
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0603
ANC to pH 4 (mol/kg)	0.112

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.66
Conductivity (µS/cm)	149
Temperature (°C)	4.60
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.109
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243222
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.12
Loss on Ignition (%)	2.38
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	825
PAH Sum of 17 (mg/kg)	281
pH (pH Units)	7.94
ANC to pH 6 (mol/kg)	0.0543
ANC to pH 4 (mol/kg)	0.101

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0022	<0.0005	0.022	<0.005	0.5	2	25
Barium	0.00479	<0.0002	0.0479	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00132	<0.0003	0.0132	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0312	<0.003	0.312	<0.03	0.5	10	30
Nickel	0.00109	<0.0004	0.0109	<0.004	0.4	10	40
Lead	0.000217	<0.0002	0.00217	<0.002	0.5	10	50
Antimony	0.00345	<0.001	0.0345	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00178	<0.001	0.0178	<0.01	4	50	200
Chloride	11.9	<2	119	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	130	<5	1300	<50	4000	60000	100000
Total Monohydric Phenols (W)	1.24	<0.016	12.4	<0.16	1	-	-
Dissolved Organic Carbon	25.8	<3	258	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.61
Conductivity (µS/cm)	170
Temperature (°C)	15.50
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:43:06



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.109
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243222
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.12
Loss on Ignition (%)	2.38
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	825
PAH Sum of 17 (mg/kg)	281
pH (pH Units)	7.94
ANC to pH 6 (mol/kg)	0.0543
ANC to pH 4 (mol/kg)	0.101

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.61
Conductivity (µS/cm)	170
Temperature (°C)	15.50
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243225
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.404
Loss on Ignition (%)	1.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	97.9
PAH Sum of 17 (mg/kg)	21.4
pH (pH Units)	8.66
ANC to pH 6 (mol/kg)	0.0788
ANC to pH 4 (mol/kg)	0.177

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00444	<0.0005	0.0444	<0.005	0.5	2	25
Barium	0.00361	<0.0002	0.0361	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00816	<0.003	0.0816	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00403	<0.001	0.0403	<0.01	0.06	0.7	5
Selenium	0.00113	<0.001	0.0113	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	13.4	<2	134	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	6.4	<2	64	<20	1000	20000	50000
Total Dissolved Solids	103	<5	1030	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.05	<0.016	0.5	<0.16	1	-	-
Dissolved Organic Carbon	8.1	<3	81	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.09
Conductivity (µS/cm)	140
Temperature (°C)	17.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:43:06



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243225
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.404
Loss on Ignition (%)	1.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	97.9
PAH Sum of 17 (mg/kg)	21.4
pH (pH Units)	8.66
ANC to pH 6 (mol/kg)	0.0788
ANC to pH 4 (mol/kg)	0.177

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.09
Conductivity (µS/cm)	140
Temperature (°C)	17.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190131-81
Lab Sample Number(s)	19243226
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.30
ANC to pH 6 (mol/kg)	0.0448
ANC to pH 4 (mol/kg)	0.0662

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00131	<0.0005	0.0131	<0.005	0.5	2	25
Barium	0.00394	<0.0002	0.0394	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00102	<0.0003	0.0102	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00115	<0.001	0.0115	<0.01	0.06	0.7	5
Selenium	0.00368	<0.001	0.0368	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	48	<2	480	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	9	<2	90	<20	1000	20000	50000
Total Dissolved Solids	176	<5	1760	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	233
Temperature (°C)	16.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:43:06



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.93
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.8
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243226
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.30
ANC to pH 6 (mol/kg)	0.0448
ANC to pH 4 (mol/kg)	0.0662

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	233
Temperature (°C)	16.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference
 Mass Sample taken (kg)
 Mass of dry sample (kg) 0.090
 Particle Size <4mm >95%

Site Location City Block 9
 Natural Moisture Content (%) 14.9
 Dry Matter Content (%) 87.0

Case
 SDG 190131-81
 Lab Sample Number(s) 19243229
 Sampled Date 22-Jan-2019
 Customer Sample Ref. BH245
 Depth (m) 12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.340
Loss on Ignition (%)	5.14
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.81
ANC to pH 6 (mol/kg)	0.191
ANC to pH 4 (mol/kg)	0.338

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00123	<0.0005	0.0123	<0.005	0.5	2	25
Barium	0.027	<0.0002	0.27	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00056	<0.0003	0.0056	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00466	<0.003	0.0466	<0.03	0.5	10	30
Nickel	0.000486	<0.0004	0.00486	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0025	<0.001	0.025	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	119	<2	1190	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	19.2	<2	192	<20	1000	20000	50000
Total Dissolved Solids	350	<5	3500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared 11-Feb-2019
 pH (pH Units)
 Conductivity (µS/cm)
 Temperature (°C)
 Volume Leachant (Litres)

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference
 Mass Sample taken (kg)
 Mass of dry sample (kg) 0.090
 Particle Size <4mm >95%

Site Location City Block 9
 Natural Moisture Content (%) 14.9
 Dry Matter Content (%) 87.0

Case
 SDG 190131-81
 Lab Sample Number(s) 19243229
 Sampled Date 22-Jan-2019
 Customer Sample Ref. BH245
 Depth (m) 12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.340
Loss on Ignition (%)	5.14
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.81
ANC to pH 6 (mol/kg)	0.191
ANC to pH 4 (mol/kg)	0.338

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared 11-Feb-2019
 pH (pH Units)
 Conductivity (µS/cm)
 Temperature (°C)
 Volume Leachant (Litres)

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.04
Dry Matter Content (%)	94.3

Case	
SDG	190131-81
Lab Sample Number(s)	19243232
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.695
Loss on Ignition (%)	1.83
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.14
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.28
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	1.04

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0386	<0.0002	0.386	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00138	<0.0003	0.0138	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0265	<0.003	0.265	<0.03	0.5	10	30
Nickel	0.00115	<0.0004	0.0115	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00201	<0.001	0.0201	<0.01	0.06	0.7	5
Selenium	0.033	<0.001	0.33	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	158	<2	1580	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	63.2	<2	632	<20	1000	20000	50000
Total Dissolved Solids	450	<5	4500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.92
Conductivity (µS/cm)	603
Temperature (°C)	17.20
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.095	Natural Moisture Content (%)	6.04
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	94.3
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243232
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH245
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.695
Loss on Ignition (%)	1.83
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.14
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.28
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	1.04

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.92
Conductivity (µS/cm)	603
Temperature (°C)	17.20
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243236
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.85
Loss on Ignition (%)	6.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	56.1
PAH Sum of 17 (mg/kg)	21.3
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0540
ANC to pH 4 (mol/kg)	0.193

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00145	<0.0005	0.0145	<0.005	0.5	2	25
Barium	0.0175	<0.0002	0.175	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.005	<0.0003	0.05	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0361	<0.003	0.361	<0.03	0.5	10	30
Nickel	0.00124	<0.0004	0.0124	<0.004	0.4	10	40
Lead	0.000456	<0.0002	0.00456	<0.002	0.5	10	50
Antimony	0.00342	<0.001	0.0342	<0.01	0.06	0.7	5
Selenium	0.00127	<0.001	0.0127	<0.01	0.1	0.5	7
Zinc	0.00413	<0.001	0.0413	<0.01	4	50	200
Chloride	24.5	<2	245	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	96.3	<2	963	<20	1000	20000	50000
Total Dissolved Solids	302	<5	3020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.73	<3	47.3	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.61
Conductivity (µS/cm)	394
Temperature (°C)	15.00
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.112	Natural Moisture Content (%)	23.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243236
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.85
Loss on Ignition (%)	6.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	56.1
PAH Sum of 17 (mg/kg)	21.3
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0540
ANC to pH 4 (mol/kg)	0.193

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.61
Conductivity (µS/cm)	394
Temperature (°C)	15.00
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.125
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.9
Dry Matter Content (%)	72.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243237
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.44
Loss on Ignition (%)	3.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.04
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.61
ANC to pH 6 (mol/kg)	0.0640
ANC to pH 4 (mol/kg)	0.536

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00463	<0.0005	0.0463	<0.005	0.5	2	25
Barium	0.0125	<0.0002	0.125	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0398	<0.003	0.398	<0.03	0.5	10	30
Nickel	0.00119	<0.0004	0.0119	<0.004	0.4	10	40
Lead	0.000266	<0.0002	0.00266	<0.002	0.5	10	50
Antimony	0.0029	<0.001	0.029	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00162	<0.001	0.0162	<0.01	4	50	200
Chloride	11.2	<2	112	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	80.4	<2	804	<20	1000	20000	50000
Total Dissolved Solids	262	<5	2620	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10	<3	100	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.14
Conductivity (µS/cm)	349
Temperature (°C)	17.40
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.125	Natural Moisture Content (%)	38.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	72.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243237
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.44
Loss on Ignition (%)	3.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.04
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.61
ANC to pH 6 (mol/kg)	0.0640
ANC to pH 4 (mol/kg)	0.536

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.14
Conductivity (µS/cm)	349
Temperature (°C)	17.40
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.125
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.9
Dry Matter Content (%)	72.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243239
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.49
Loss on Ignition (%)	6.38
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	529
PAH Sum of 17 (mg/kg)	248
pH (pH Units)	7.67
ANC to pH 6 (mol/kg)	0.0842
ANC to pH 4 (mol/kg)	0.531

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0031	<0.0005	0.031	<0.005	0.5	2	25
Barium	0.00656	<0.0002	0.0656	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0337	<0.003	0.337	<0.03	0.5	10	30
Nickel	0.00168	<0.0004	0.0168	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00291	<0.001	0.0291	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00134	<0.001	0.0134	<0.01	4	50	200
Chloride	10.3	<2	103	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.1	<2	121	<20	1000	20000	50000
Total Dissolved Solids	171	<5	1710	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.03	<0.016	0.3	<0.16	1	-	-
Dissolved Organic Carbon	20.1	<3	201	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	227
Temperature (°C)	17.70
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.125
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.9
Dry Matter Content (%)	72.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243239
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.49
Loss on Ignition (%)	6.38
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	529
PAH Sum of 17 (mg/kg)	248
pH (pH Units)	7.67
ANC to pH 6 (mol/kg)	0.0842
ANC to pH 4 (mol/kg)	0.531

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	227
Temperature (°C)	17.70
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.123
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243240
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.18
Loss on Ignition (%)	5.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	786
PAH Sum of 17 (mg/kg)	644
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.255

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00432	<0.0005	0.0432	<0.005	0.5	2	25
Barium	0.00629	<0.0002	0.0629	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0332	<0.003	0.332	<0.03	0.5	10	30
Nickel	0.00182	<0.0004	0.0182	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00248	<0.001	0.0248	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00193	<0.001	0.0193	<0.01	4	50	200
Chloride	7.3	<2	73	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	2	<2	20	<20	1000	20000	50000
Total Dissolved Solids	146	<5	1460	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.06	<0.016	0.6	<0.16	1	-	-
Dissolved Organic Carbon	20.8	<3	208	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.88
Conductivity (µS/cm)	197
Temperature (°C)	17.50
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.123
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243240
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.18
Loss on Ignition (%)	5.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	786
PAH Sum of 17 (mg/kg)	644
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.255

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.88
Conductivity (µS/cm)	197
Temperature (°C)	17.50
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243241
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.83
Loss on Ignition (%)	3.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	168
PAH Sum of 17 (mg/kg)	122
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.0497
ANC to pH 4 (mol/kg)	0.188

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00438	<0.0005	0.0438	<0.005	0.5	2	25
Barium	0.00496	<0.0002	0.0496	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0433	<0.003	0.433	<0.03	0.5	10	30
Nickel	0.00133	<0.0004	0.0133	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0039	<0.001	0.039	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	5.6	<2	56	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	9.2	<2	92	<20	1000	20000	50000
Total Dissolved Solids	141	<5	1410	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.06	<0.016	0.6	<0.16	1	-	-
Dissolved Organic Carbon	13.5	<3	135	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.52
Conductivity (µS/cm)	191
Temperature (°C)	17.20
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243241
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.83
Loss on Ignition (%)	3.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	168
PAH Sum of 17 (mg/kg)	122
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.0497
ANC to pH 4 (mol/kg)	0.188

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.52
Conductivity (µS/cm)	191
Temperature (°C)	17.20
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243242
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.777
Loss on Ignition (%)	1.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	51.0
PAH Sum of 17 (mg/kg)	14.0
pH (pH Units)	8.26
ANC to pH 6 (mol/kg)	0.0975
ANC to pH 4 (mol/kg)	0.194

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00356	<0.0005	0.0356	<0.005	0.5	2	25
Barium	0.00669	<0.0002	0.0669	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00105	<0.0003	0.0105	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0271	<0.003	0.271	<0.03	0.5	10	30
Nickel	0.00119	<0.0004	0.0119	<0.004	0.4	10	40
Lead	0.000203	<0.0002	0.00203	<0.002	0.5	10	50
Antimony	0.0049	<0.001	0.049	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00107	<0.001	0.0107	<0.01	4	50	200
Chloride	9.3	<2	93	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	14.3	<2	143	<20	1000	20000	50000
Total Dissolved Solids	152	<5	1520	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.2	<0.016	2	<0.16	1	-	-
Dissolved Organic Carbon	8.63	<3	86.3	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.63
Conductivity (µS/cm)	188
Temperature (°C)	16.20
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)	19.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	84.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243242
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.777
Loss on Ignition (%)	1.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	51.0
PAH Sum of 17 (mg/kg)	14.0
pH (pH Units)	8.26
ANC to pH 6 (mol/kg)	0.0975
ANC to pH 4 (mol/kg)	0.194

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.63
Conductivity (µS/cm)	188
Temperature (°C)	16.20
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243243
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.697
Loss on Ignition (%)	1.93
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.5
PAH Sum of 17 (mg/kg)	14.1
pH (pH Units)	8.39
ANC to pH 6 (mol/kg)	0.0855
ANC to pH 4 (mol/kg)	0.222

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00168	<0.0005	0.0168	<0.005	0.5	2	25
Barium	0.0334	<0.0002	0.334	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00141	<0.0003	0.0141	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0158	<0.003	0.158	<0.03	0.5	10	30
Nickel	0.000964	<0.0004	0.00964	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00262	<0.001	0.0262	<0.01	0.06	0.7	5
Selenium	0.00202	<0.001	0.0202	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	24.1	<2	241	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	18.2	<2	182	<20	1000	20000	50000
Total Dissolved Solids	195	<5	1950	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.2	<0.016	2	<0.16	1	-	-
Dissolved Organic Carbon	11.9	<3	119	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.87
Conductivity (µS/cm)	240
Temperature (°C)	16.70
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243243
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.697
Loss on Ignition (%)	1.93
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.5
PAH Sum of 17 (mg/kg)	14.1
pH (pH Units)	8.39
ANC to pH 6 (mol/kg)	0.0855
ANC to pH 4 (mol/kg)	0.222

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.87
Conductivity (µS/cm)	240
Temperature (°C)	16.70
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-81
Lab Sample Number(s)	19243249
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.351
Loss on Ignition (%)	1.14
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.23
ANC to pH 6 (mol/kg)	0.0579
ANC to pH 4 (mol/kg)	0.0916

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00114	<0.0005	0.0114	<0.005	0.5	2	25
Barium	0.00639	<0.0002	0.0639	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00118	<0.0003	0.0118	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0032	<0.001	0.032	<0.01	0.1	0.5	7
Zinc	0.00121	<0.001	0.0121	<0.01	4	50	200
Chloride	79.1	<2	791	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.6	<2	126	<20	1000	20000	50000
Total Dissolved Solids	243	<5	2430	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.02	<0.016	0.2	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	9.54
Conductivity (µS/cm)	320
Temperature (°C)	17.80
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243249
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.351
Loss on Ignition (%)	1.14
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.23
ANC to pH 6 (mol/kg)	0.0579
ANC to pH 4 (mol/kg)	0.0916

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	9.54
Conductivity (µS/cm)	320
Temperature (°C)	17.80
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.5
Dry Matter Content (%)	90.5

Case	
SDG	190131-81
Lab Sample Number(s)	19243251
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.615
Loss on Ignition (%)	2.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.54
ANC to pH 6 (mol/kg)	0.252
ANC to pH 4 (mol/kg)	1.04

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0531	<0.0002	0.531	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0146	<0.003	0.146	<0.03	0.5	10	30
Nickel	0.000722	<0.0004	0.00722	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00227	<0.001	0.0227	<0.01	0.06	0.7	5
Selenium	0.0198	<0.001	0.198	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	150	<2	1500	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	51.9	<2	519	<20	1000	20000	50000
Total Dissolved Solids	442	<5	4420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.78
Conductivity (µS/cm)	501
Temperature (°C)	10.30
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.5
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243251
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.615
Loss on Ignition (%)	2.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.54
ANC to pH 6 (mol/kg)	0.252
ANC to pH 4 (mol/kg)	1.04

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.78
Conductivity (µS/cm)	501
Temperature (°C)	10.30
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.7
Dry Matter Content (%)	90.3

Case	
SDG	190131-81
Lab Sample Number(s)	19243253
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.710
Loss on Ignition (%)	2.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.0878
ANC to pH 4 (mol/kg)	0.960

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000552	<0.0005	0.00552	<0.005	0.5	2	25
Barium	0.0533	<0.0002	0.533	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000561	<0.0003	0.00561	<0.003	2	50	100
Mercury Dissolved (CVAf)	0.0000122	<0.00001	0.000122	<0.0001	0.01	0.2	2
Molybdenum	0.0224	<0.003	0.224	<0.03	0.5	10	30
Nickel	0.00134	<0.0004	0.0134	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0027	<0.001	0.027	<0.01	0.06	0.7	5
Selenium	0.0295	<0.001	0.295	<0.01	0.1	0.5	7
Zinc	0.00105	<0.001	0.0105	<0.01	4	50	200
Chloride	165	<2	1650	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47	<2	470	<20	1000	20000	50000
Total Dissolved Solids	489	<5	4890	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.39	<3	33.9	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.18
Conductivity (µS/cm)	657
Temperature (°C)	17.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:43:06



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.7
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.3
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243253
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.710
Loss on Ignition (%)	2.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.0878
ANC to pH 4 (mol/kg)	0.960

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.18
Conductivity (µS/cm)	657
Temperature (°C)	17.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.65
Dry Matter Content (%)	91.2

Case	
SDG	190131-81
Lab Sample Number(s)	19243255
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.738
Loss on Ignition (%)	1.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.21
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.680

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000639	<0.0005	0.00639	<0.005	0.5	2	25
Barium	0.0499	<0.0002	0.499	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000344	<0.0003	0.00344	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000267	<0.00001	0.000267	<0.0001	0.01	0.2	2
Molybdenum	0.0229	<0.003	0.229	<0.03	0.5	10	30
Nickel	0.00141	<0.0004	0.0141	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00261	<0.001	0.0261	<0.01	0.06	0.7	5
Selenium	0.03	<0.001	0.3	<0.01	0.1	0.5	7
Zinc	0.00126	<0.001	0.0126	<0.01	4	50	200
Chloride	167	<2	1670	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47.8	<2	478	<20	1000	20000	50000
Total Dissolved Solids	466	<5	4660	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.79
Conductivity (µS/cm)	633
Temperature (°C)	17.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:43:06



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.65
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.2
Particle Size <4mm	>95%		

Case	
SDG	190131-81
Lab Sample Number(s)	19243255
Sampled Date	23-Jan-2019
Customer Sample Ref.	BH246
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.738
Loss on Ignition (%)	1.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.21
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.680

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	7.79
Conductivity (µS/cm)	633
Temperature (°C)	17.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 05/04/2019 15:43:06



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19243194	19243198	19243199	19243202	19243203	19243204	19243205	19243207	19243209	19243212
	BH244	BH244	BH244	BH244	BH244	BH244	BH244	BH244	BH244	BH244
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	0.00 - 0.50	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	8.00 - 9.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	08-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	10-Feb-2019
Anions by Kone (w)	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Asbestos ID in Solid Samples	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019
CEN 10:1 Leachate (1 Stage)	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	05-Feb-2019	05-Feb-2019	08-Feb-2019	08-Feb-2019	05-Feb-2019
CEN Readings	10-Feb-2019	09-Feb-2019	09-Feb-2019	10-Feb-2019	09-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019
Dissolved Metals by ICP-MS	11-Feb-2019	11-Feb-2019	11-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019
Dissolved Organic/Inorganic Carbon	12-Feb-2019	11-Feb-2019	12-Feb-2019	12-Feb-2019	11-Feb-2019	17-Feb-2019	20-Feb-2019	11-Feb-2019	11-Feb-2019	17-Feb-2019
EPH CWG (Aliphatic) GC (S)	11-Feb-2019	07-Feb-2019	11-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
EPH CWG (Aromatic) GC (S)	11-Feb-2019	07-Feb-2019	11-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Fluoride	12-Feb-2019	11-Feb-2019	11-Feb-2019	12-Feb-2019	11-Feb-2019	13-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019	13-Feb-2019
GRO by GC-FID (S)	06-Feb-2019	06-Feb-2019	06-Feb-2019	09-Feb-2019	09-Feb-2019	06-Feb-2019	06-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019
Loss on Ignition in soils	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
Mercury Dissolved	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	13-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019	13-Feb-2019
Metals in solid samples by OES	12-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	12-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019	13-Feb-2019
Mineral Oil	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019
PAH 16 & 17 Calc	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	07-Feb-2019	06-Feb-2019
PAH by GCMS	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019
PCBs by GCMS	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	09-Feb-2019	12-Feb-2019
pH	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	13-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	11-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	08-Feb-2019
Phenols by HPLC (W)	18-Feb-2019	14-Feb-2019	18-Feb-2019	15-Feb-2019	14-Feb-2019	15-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019
Sample description	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	04-Feb-2019	04-Feb-2019	02-Feb-2019	02-Feb-2019	04-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	08-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019
TPH CWG GC (S)	11-Feb-2019	07-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019	07-Feb-2019	07-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
VOC MS (S)	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19243214	19243216	19243217	19243218	19243219	19243220	19243221	19243222	19243225	19243226
	BH244	BH245	BH245	BH245	BH245	BH245	BH245	BH245	BH245	BH245
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	16.00 - 17.00	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	10-Feb-2019	08-Feb-2019		11-Feb-2019	10-Feb-2019	10-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	10-Feb-2019
Anions by Kone (w)	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	06-Feb-2019		07-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019
CEN 10:1 Leachate (1 Stage)	07-Feb-2019	08-Feb-2019	05-Feb-2019	05-Feb-2019	07-Feb-2019	07-Feb-2019	05-Feb-2019	07-Feb-2019	05-Feb-2019	08-Feb-2019
CEN Readings	10-Feb-2019	09-Feb-2019	06-Feb-2019	08-Feb-2019	09-Feb-2019	10-Feb-2019	08-Feb-2019	09-Feb-2019	08-Feb-2019	09-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019		06-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	12-Feb-2019	11-Feb-2019	09-Feb-2019	12-Feb-2019	11-Feb-2019	12-Feb-2019	12-Feb-2019	11-Feb-2019	09-Feb-2019	12-Feb-2019
Dissolved Organic/Inorganic Carbon	12-Feb-2019	11-Feb-2019	08-Feb-2019	17-Feb-2019	12-Feb-2019	12-Feb-2019	17-Feb-2019	12-Feb-2019	09-Feb-2019	11-Feb-2019
EPH CWG (Aliphatic) GC (S)	07-Feb-2019	07-Feb-2019		07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
EPH CWG (Aromatic) GC (S)	07-Feb-2019	07-Feb-2019		07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Fluoride	12-Feb-2019	11-Feb-2019	07-Feb-2019	13-Feb-2019	11-Feb-2019	12-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
GRO by GC-FID (S)	11-Feb-2019	09-Feb-2019		12-Feb-2019	09-Feb-2019	12-Feb-2019	12-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	07-Feb-2019		07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Loss on Ignition in soils	08-Feb-2019	08-Feb-2019		11-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019
Mercury Dissolved	11-Feb-2019	11-Feb-2019	08-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
Metals in solid samples by OES	14-Feb-2019	08-Feb-2019		13-Feb-2019	14-Feb-2019	14-Feb-2019	08-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019
Mineral Oil	06-Feb-2019	06-Feb-2019		06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019
PAH 16 & 17 Calc	06-Feb-2019	06-Feb-2019		06-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	06-Feb-2019
PAH by GCMS	06-Feb-2019	06-Feb-2019		06-Feb-2019	07-Feb-2019	06-Feb-2019	08-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019
PCBs by GCMS	09-Feb-2019	08-Feb-2019		12-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
pH	07-Feb-2019	07-Feb-2019		07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	12-Feb-2019	07-Feb-2019		14-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019	13-Feb-2019
Phenols by HPLC (W)	15-Feb-2019	14-Feb-2019	13-Feb-2019	15-Feb-2019	14-Feb-2019	16-Feb-2019	15-Feb-2019	14-Feb-2019	15-Feb-2019	14-Feb-2019
Sample description	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	04-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	07-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	11-Feb-2019	08-Feb-2019		11-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019
TPH CWG GC (S)	11-Feb-2019	09-Feb-2019		12-Feb-2019	09-Feb-2019	12-Feb-2019	12-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019
VOC MS (S)	08-Feb-2019	07-Feb-2019		07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	19243229	19243232	19243236	19243237	19243239	19243240	19243241	19243242	19243243	19243249
	BH245	BH245	BH246	BH246	BH246	BH246	BH246	BH246	BH246	BH246
	12.00 - 13.00	15.00 - 16.00	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	10.00 - 11.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	08-Feb-2019	10-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	10-Feb-2019	08-Feb-2019	08-Feb-2019
Anions by Kone (w)	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019
CEN 10:1 Leachate (1 Stage)	09-Feb-2019	07-Feb-2019	07-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
CEN Readings		10-Feb-2019	09-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	09-Feb-2019	10-Feb-2019
Coronene	06-Feb-2019	07-Feb-2019	07-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	11-Feb-2019	12-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	12-Feb-2019
Dissolved Organic/Inorganic Carbon	12-Feb-2019	12-Feb-2019	12-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	12-Feb-2019	11-Feb-2019	12-Feb-2019
EPH CWG (Aliphatic) GC (S)	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
EPH CWG (Aromatic) GC (S)	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Fluoride	12-Feb-2019	12-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019	12-Feb-2019
GRO by GC-FID (S)	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	11-Feb-2019	14-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019
Loss on Ignition in soils	11-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019
Mercury Dissolved	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
Metals in solid samples by OES	11-Feb-2019	14-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	14-Feb-2019	12-Feb-2019	11-Feb-2019
Mineral Oil	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019
PAH 16 & 17 Calc	08-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	08-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019
PAH by GCMS	06-Feb-2019	07-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019
PCBs by GCMS	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
pH	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	12-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	12-Feb-2019	11-Feb-2019	11-Feb-2019	12-Feb-2019	12-Feb-2019	11-Feb-2019
Phenols by HPLC (W)	18-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	15-Feb-2019
Sample description	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	11-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019
TPH CWG GC (S)	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	11-Feb-2019	14-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
VOC MS (S)	08-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	19243251	19243253	19243255
	BH246	BH246	BH246
	12.00 - 13.00	14.00 - 15.00	16.00 - 17.00
	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	10-Feb-2019	10-Feb-2019	07-Feb-2019
Anions by Kone (w)	15-Feb-2019	15-Feb-2019	15-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	05-Feb-2019	06-Feb-2019
CEN 10:1 Leachate (1 Stage)	07-Feb-2019	05-Feb-2019	05-Feb-2019
CEN Readings	09-Feb-2019	08-Feb-2019	08-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	11-Feb-2019	12-Feb-2019	12-Feb-2019
Dissolved Organic/Inorganic Carbon	12-Feb-2019	17-Feb-2019	17-Feb-2019
EPH CWG (Aliphatic) GC (S)	07-Feb-2019	07-Feb-2019	07-Feb-2019
EPH CWG (Aromatic) GC (S)	07-Feb-2019	07-Feb-2019	07-Feb-2019
Fluoride	11-Feb-2019	13-Feb-2019	13-Feb-2019
GRO by GC-FID (S)	12-Feb-2019	12-Feb-2019	12-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	07-Feb-2019	07-Feb-2019
Loss on Ignition in soils	08-Feb-2019	11-Feb-2019	07-Feb-2019
Mercury Dissolved	11-Feb-2019	13-Feb-2019	13-Feb-2019
Metals in solid samples by OES	14-Feb-2019	13-Feb-2019	08-Feb-2019
Mineral Oil	06-Feb-2019	06-Feb-2019	06-Feb-2019
PAH 16 & 17 Calc	06-Feb-2019	05-Feb-2019	08-Feb-2019
PAH by GCMS	07-Feb-2019	06-Feb-2019	06-Feb-2019
PCBs by GCMS	09-Feb-2019	12-Feb-2019	08-Feb-2019
pH	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	11-Feb-2019	11-Feb-2019	11-Feb-2019
Phenols by HPLC (W)	14-Feb-2019	15-Feb-2019	15-Feb-2019
Sample description	02-Feb-2019	02-Feb-2019	02-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	11-Feb-2019	11-Feb-2019	08-Feb-2019
TPH CWG GC (S)	12-Feb-2019	12-Feb-2019	12-Feb-2019
VOC MS (S)	07-Feb-2019	07-Feb-2019	07-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

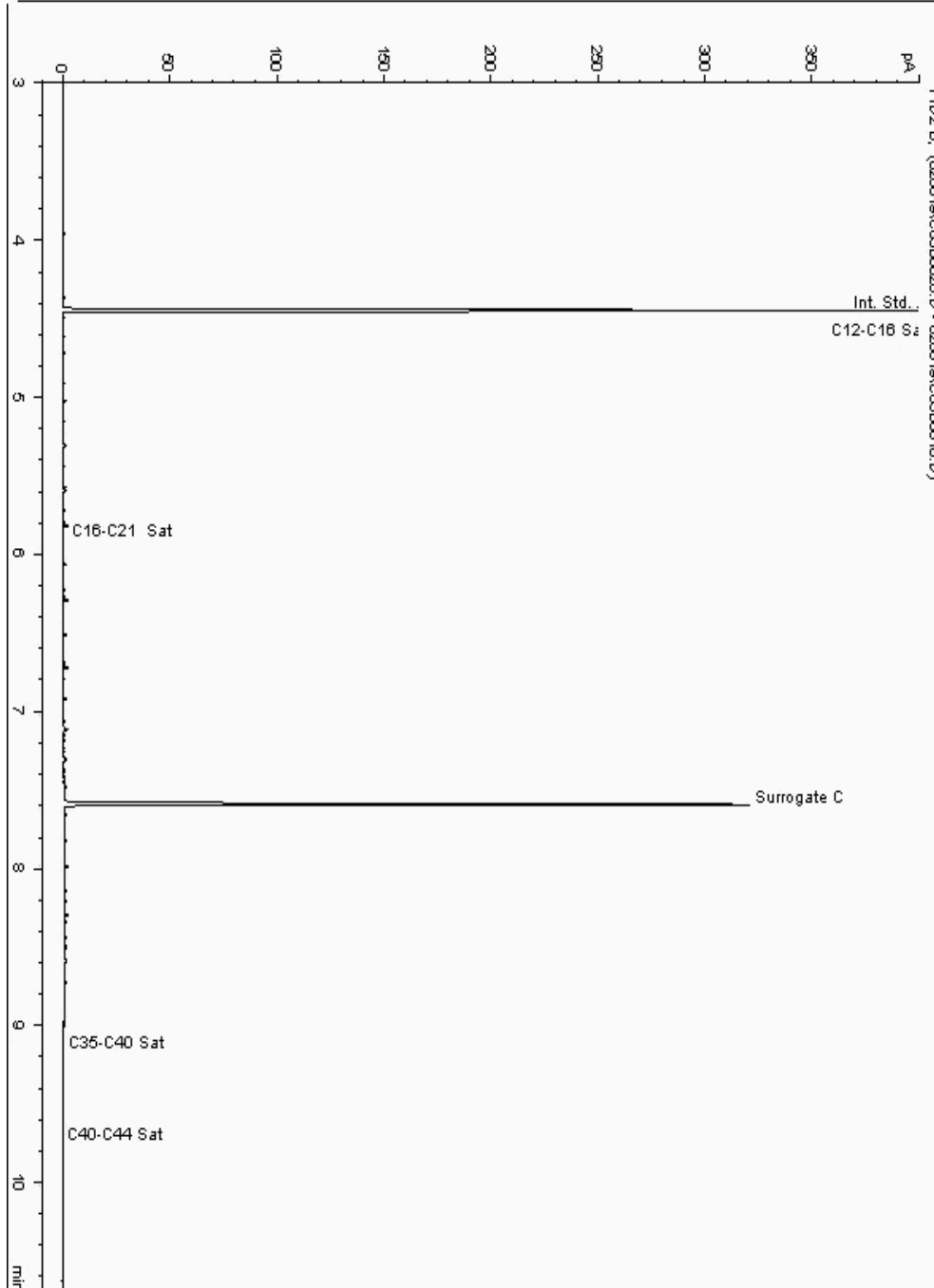
Analysis: EPH CWG (Aliphatic) GC (S)
19259353

Sample No :
Sample ID : BH244

19,259,353Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091673-
Date Acquired : 08/02/2019 14:54:34 PM
Units : ppb
Dilution: BH244[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

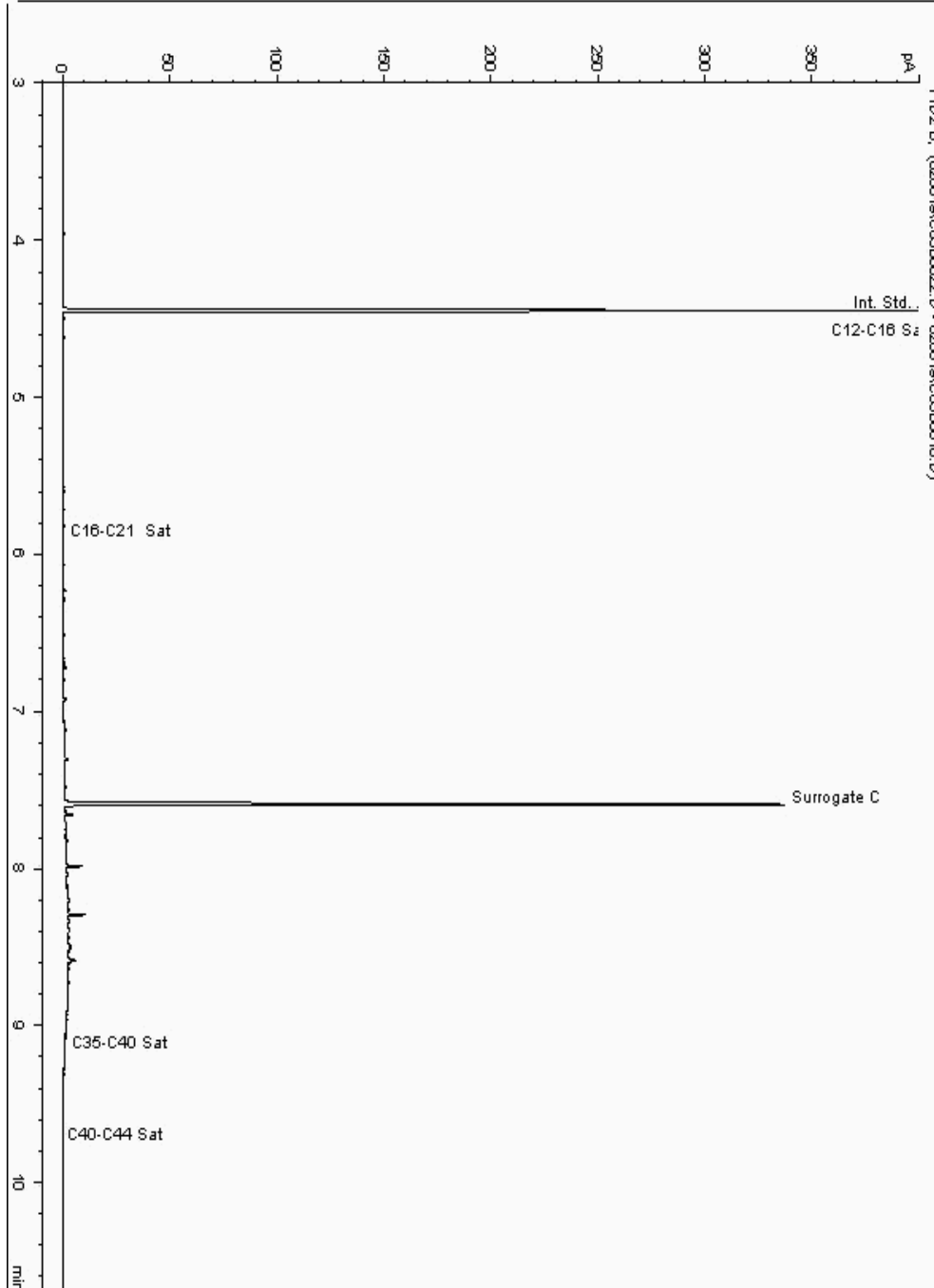
Analysis: EPH CWG (Aliphatic) GC (S)
19259461

Sample No :
Sample ID : BH244

19,259,461 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091829-
Date Acquired : 08/02/2019 13:16:06 PM
Units : ppb
Dilution: BH244[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

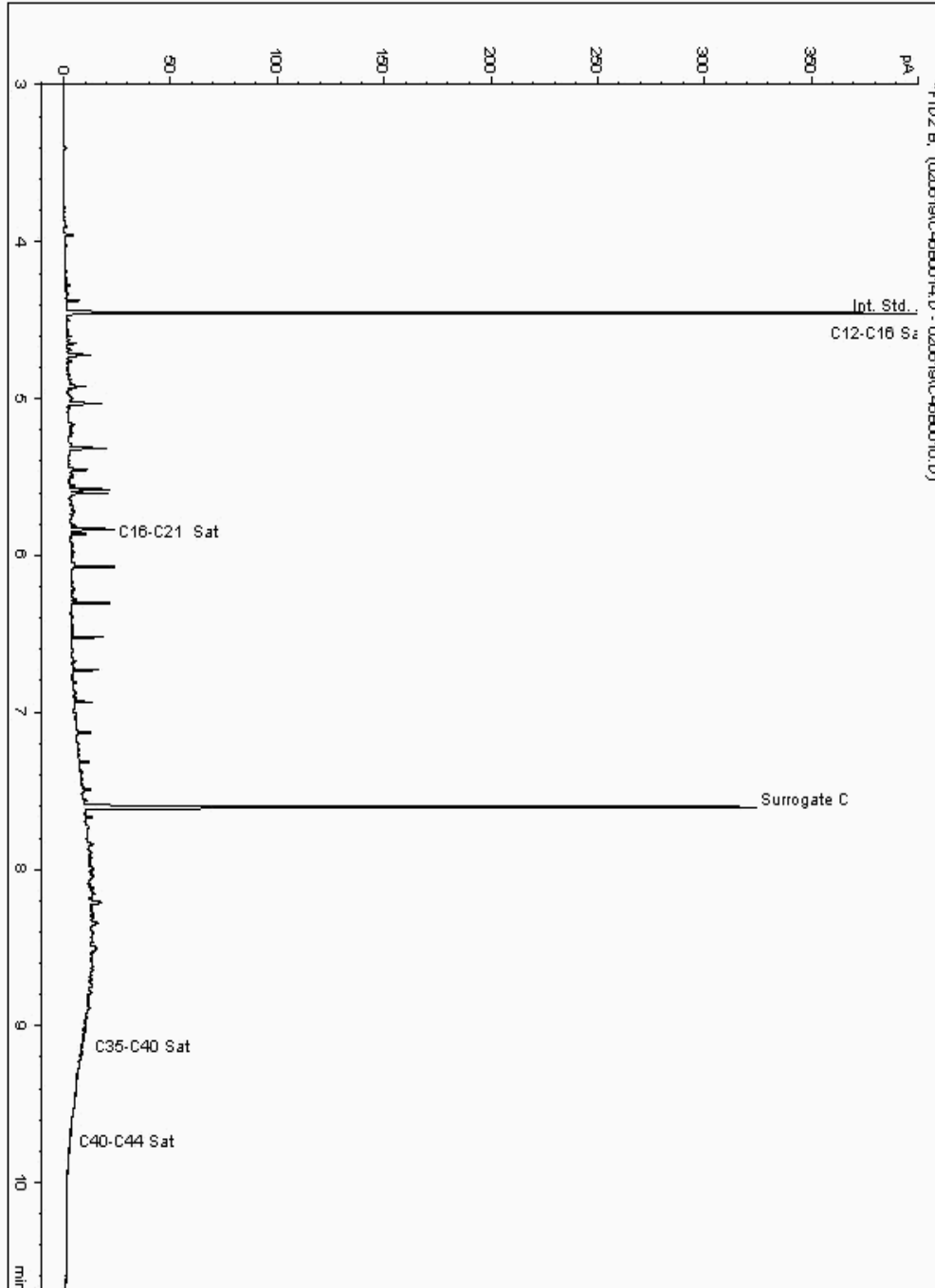
Analysis: EPH CWG (Aliphatic) GC (S)
19260990

Sample No :
Sample ID : BH245

19,260,990Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092635-
Date Acquired : 06/02/2019 16:58:13 PM
Units : ppb
Dilution: BH245[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

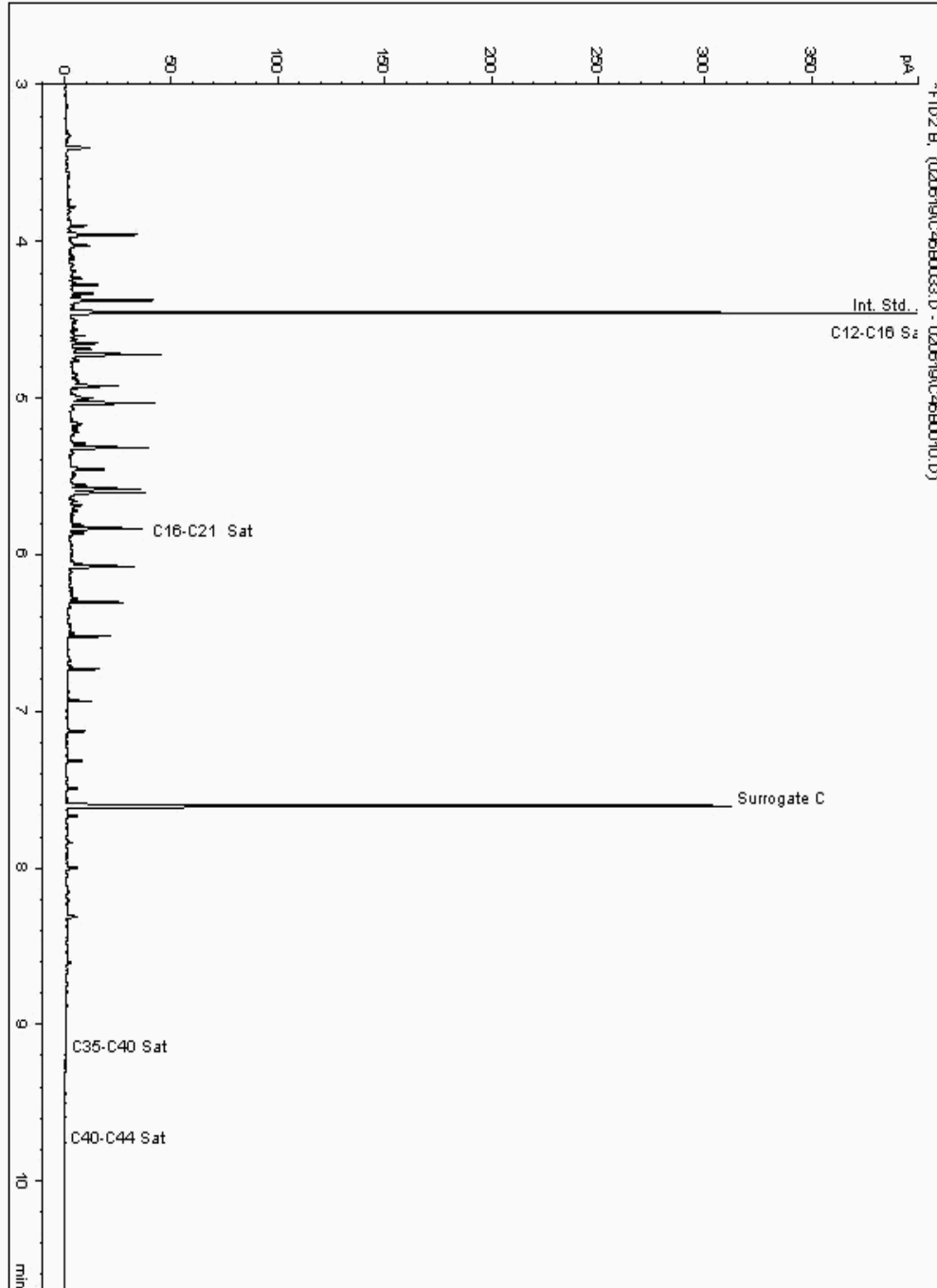
Analysis: EPH CWG (Aliphatic) GC (S)
19261019

Sample No :
Sample ID : BH245

19,261,019 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092699-
Date Acquired : 06/02/2019 22:00:42 PM
Units : ppb
Dilution: BH245[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

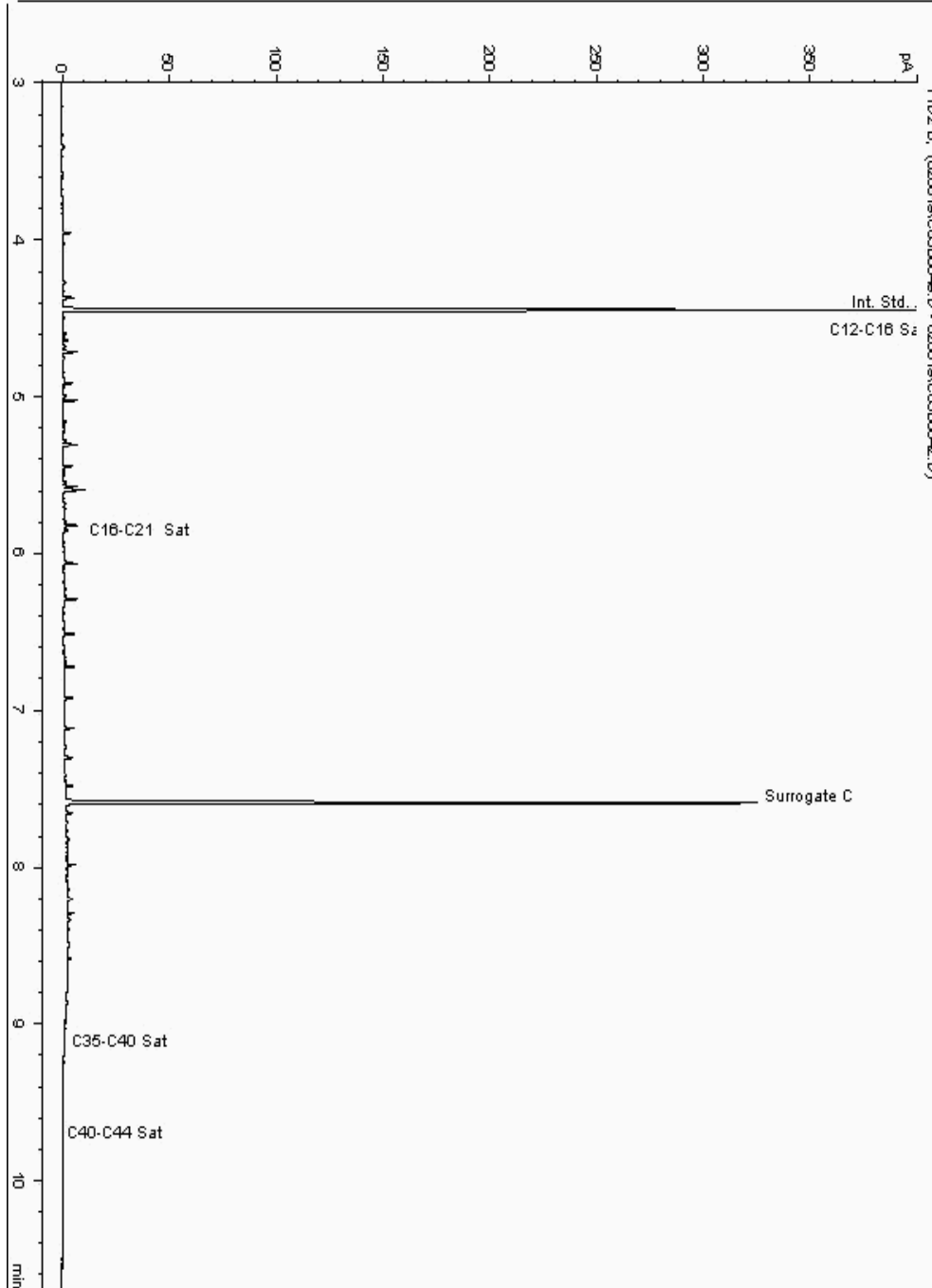
Analysis: EPH CWG (Aliphatic) GC (S)
19261076

Sample No :
Sample ID : BH246

19,261,076Depth :0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090691-
Date Acquired : 06/02/2019 22:22:15 PM
Units : ppb
Dilution: BH246[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

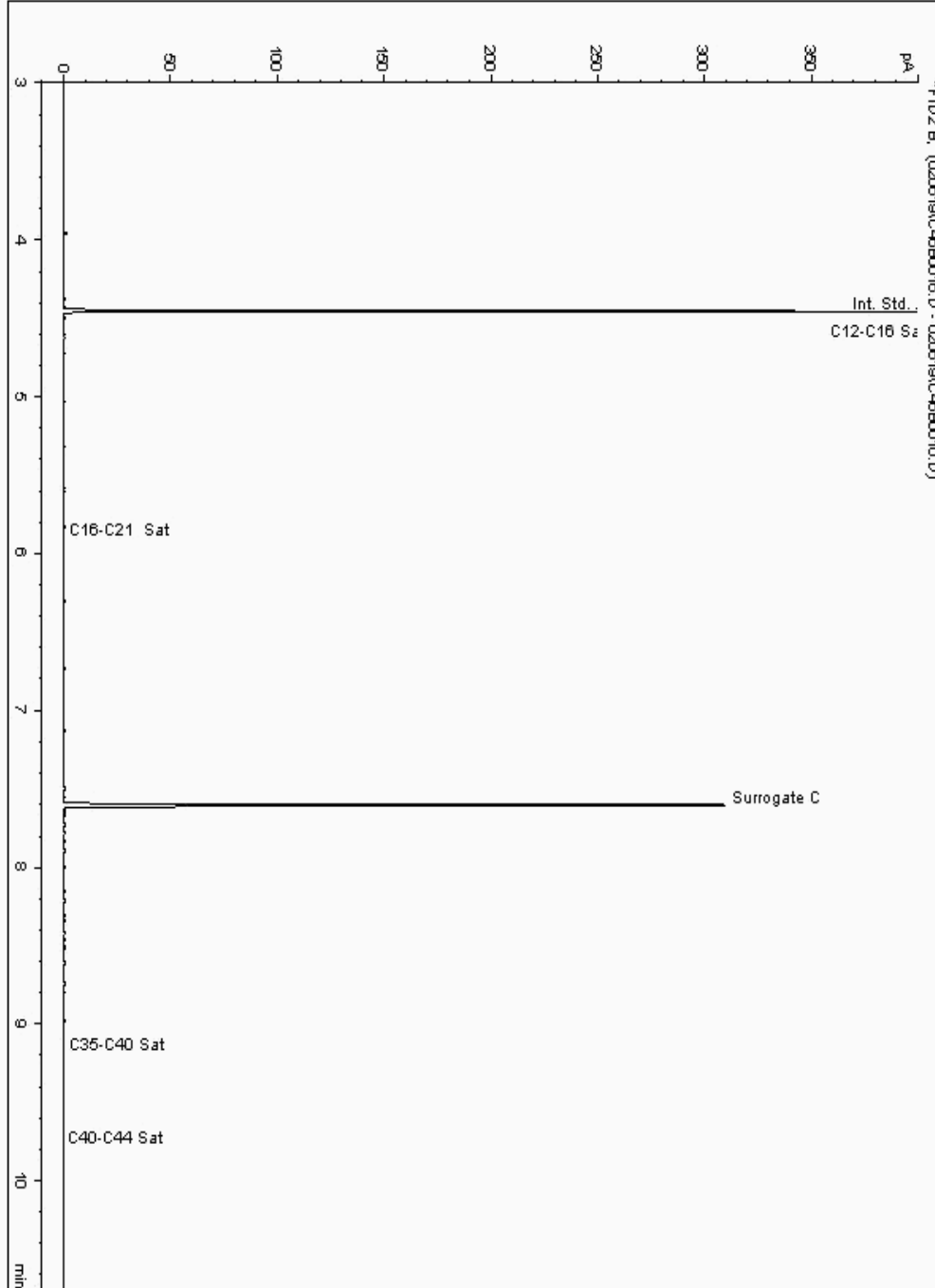
Analysis: EPH CWG (Aliphatic) GC (S)
19261173

Sample No :
Sample ID : BH246

19,261,173 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091048-
Date Acquired : 06/02/2019 17:30:43 PM
Units : ppb
Dilution: BH246[10.00 - 11.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

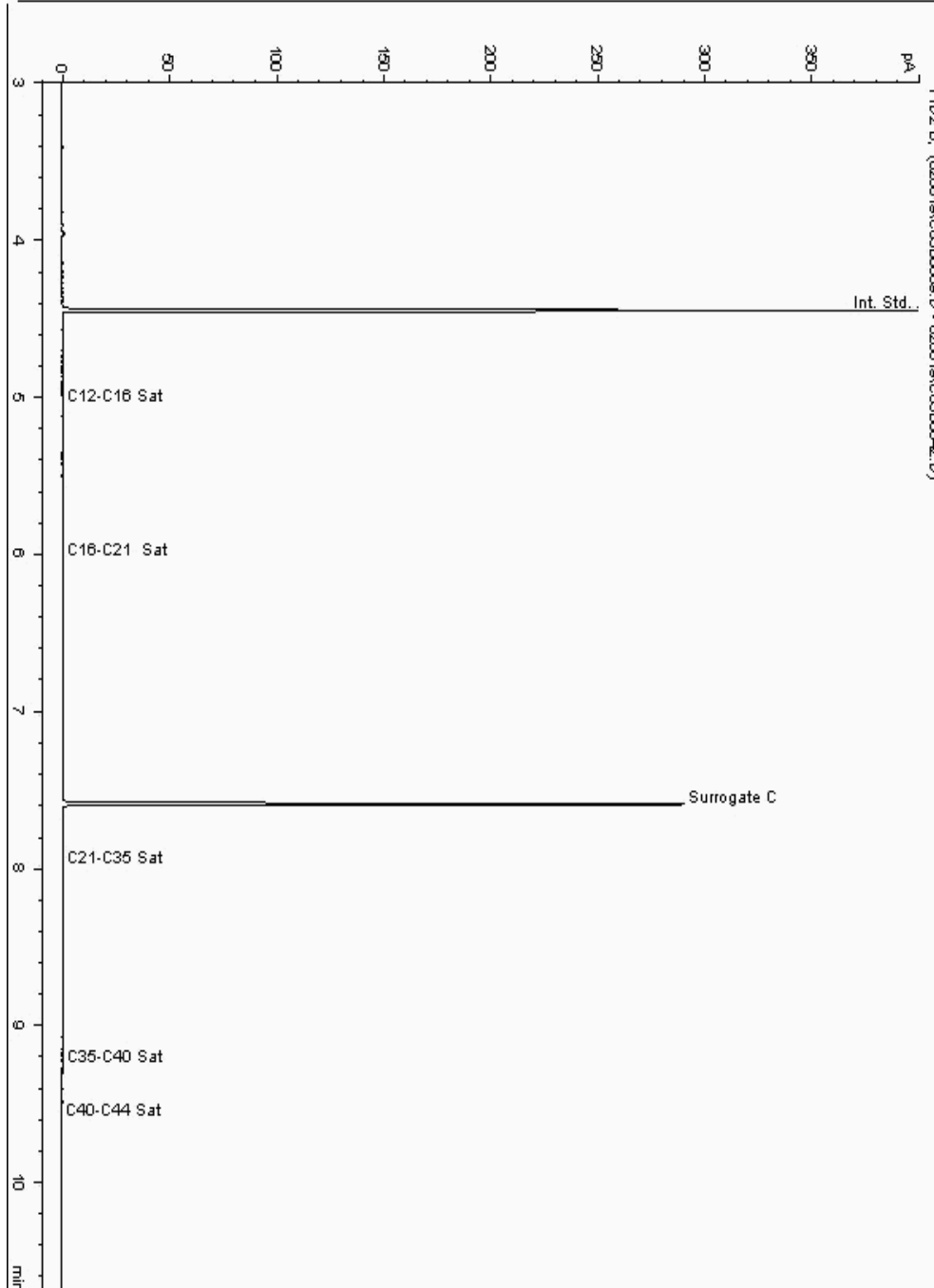
Analysis: EPH CWG (Aliphatic) GC (S)
19261241

Sample No :
Sample ID : BH244

19,261,241 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092277-
Date Acquired : 07/02/2019 04:11:47 PM
Units : ppb
Dilution: BH244[12.00 - 13.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

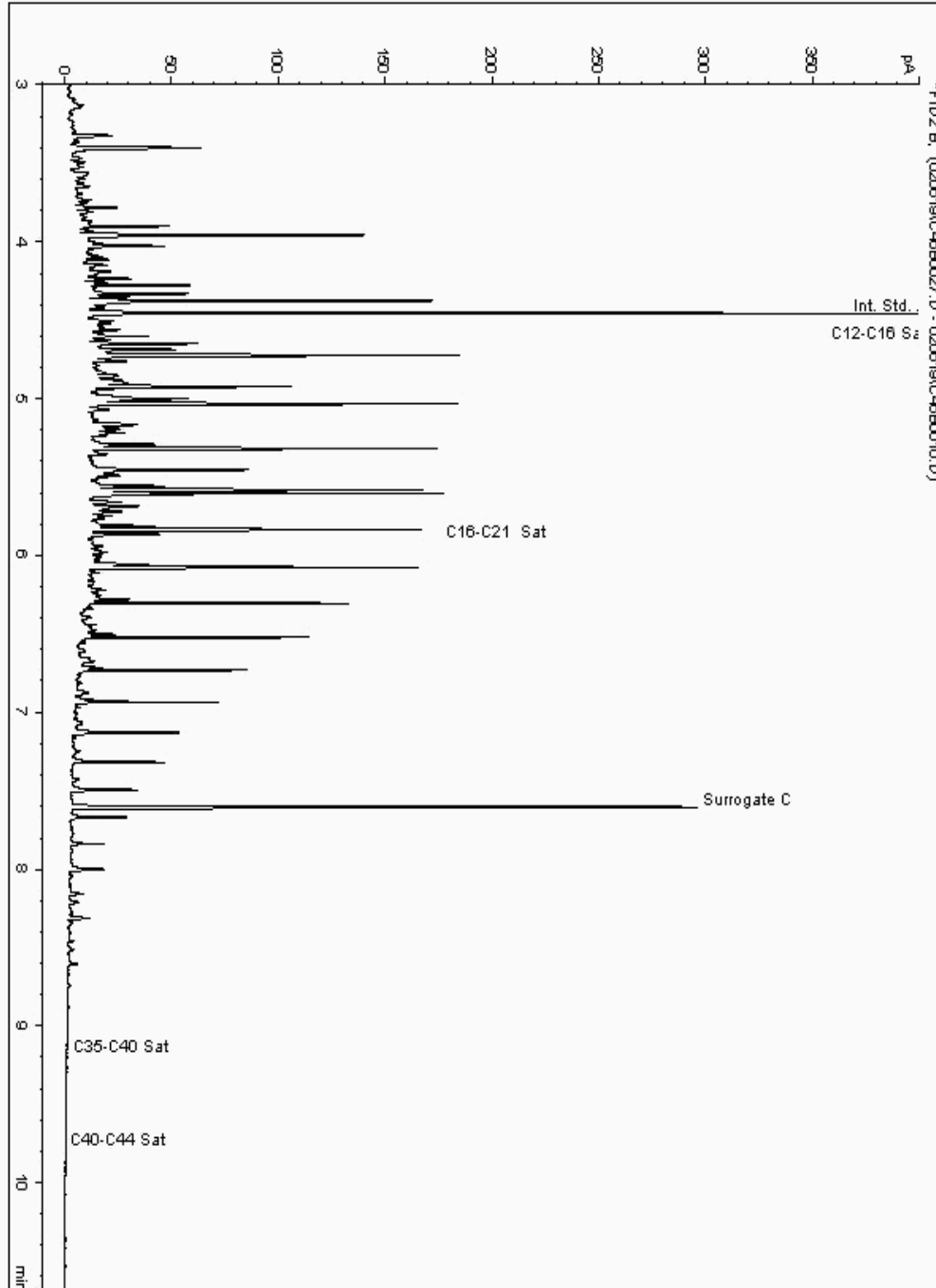
Analysis: EPH CWG (Aliphatic) GC (S)
19261467

Sample No :
Sample ID : BH245

19,261,467Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092864-
Date Acquired : 06/02/2019 20:32:13 PM
Units : ppb
Dilution: BH245[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

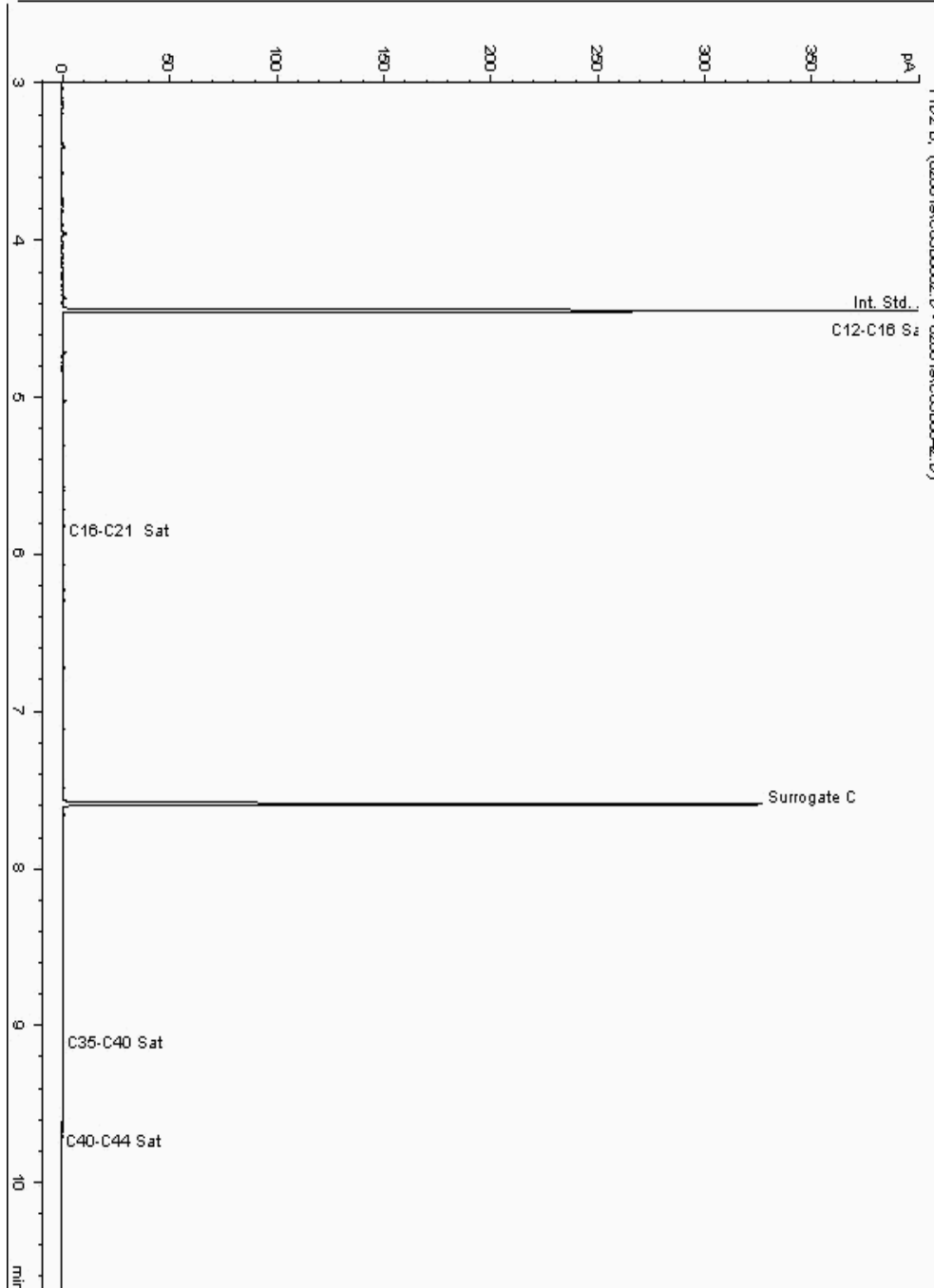
Analysis: EPH CWG (Aliphatic) GC (S)
19261519

Sample No :
Sample ID : BH244

19,261,519 Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092467-
Date Acquired : 07/02/2019 02:05:39 PM
Units : ppb
Dilution: BH244[16.00 - 17.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

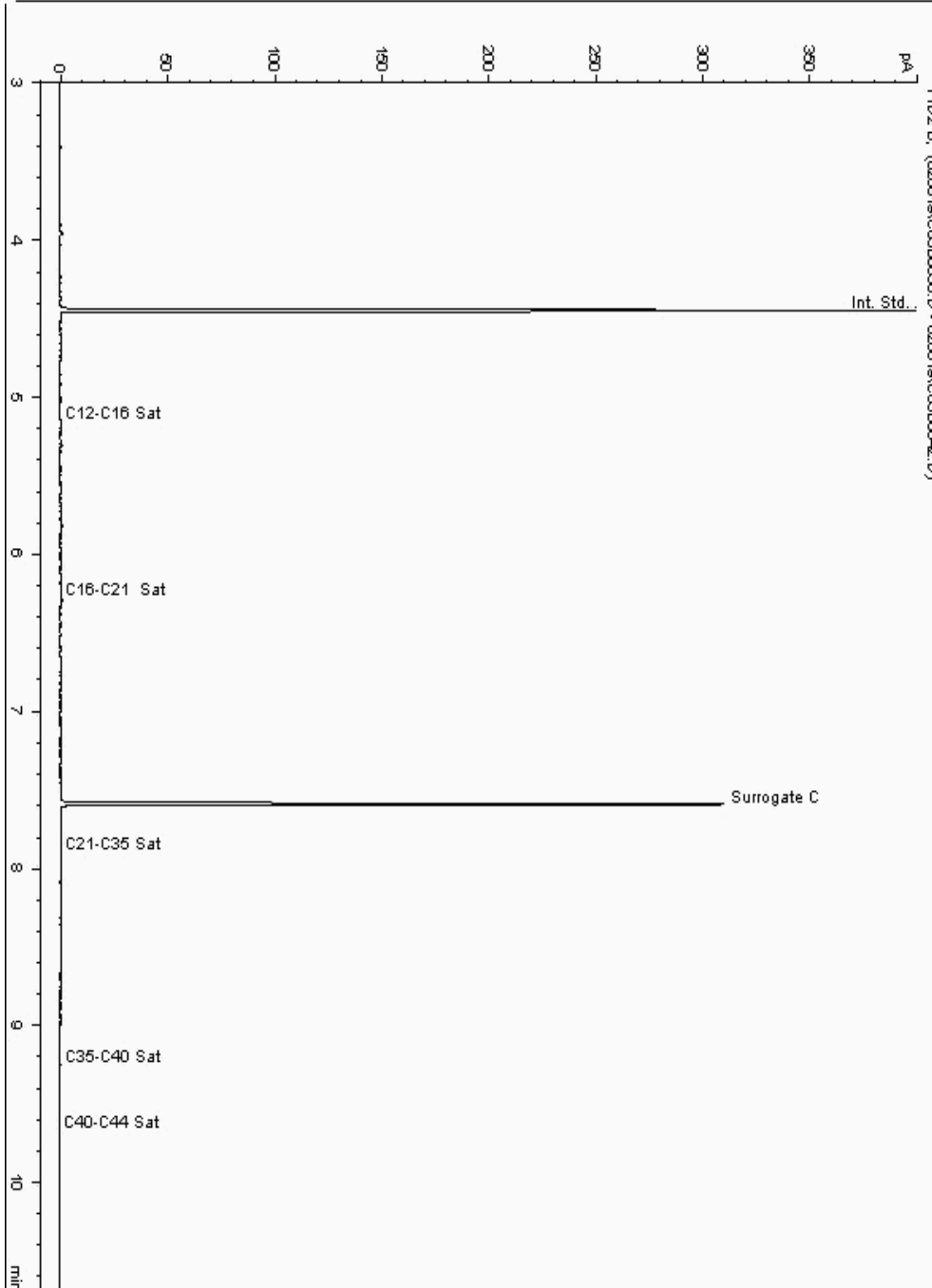
Analysis: EPH CWG (Aliphatic) GC (S)
19261609

Sample No :
Sample ID : BH245

19,261,609Depth :9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18093268-
Date Acquired : 07/02/2019 00:20:16 PM
Units : ppb
Dilution: BH245[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

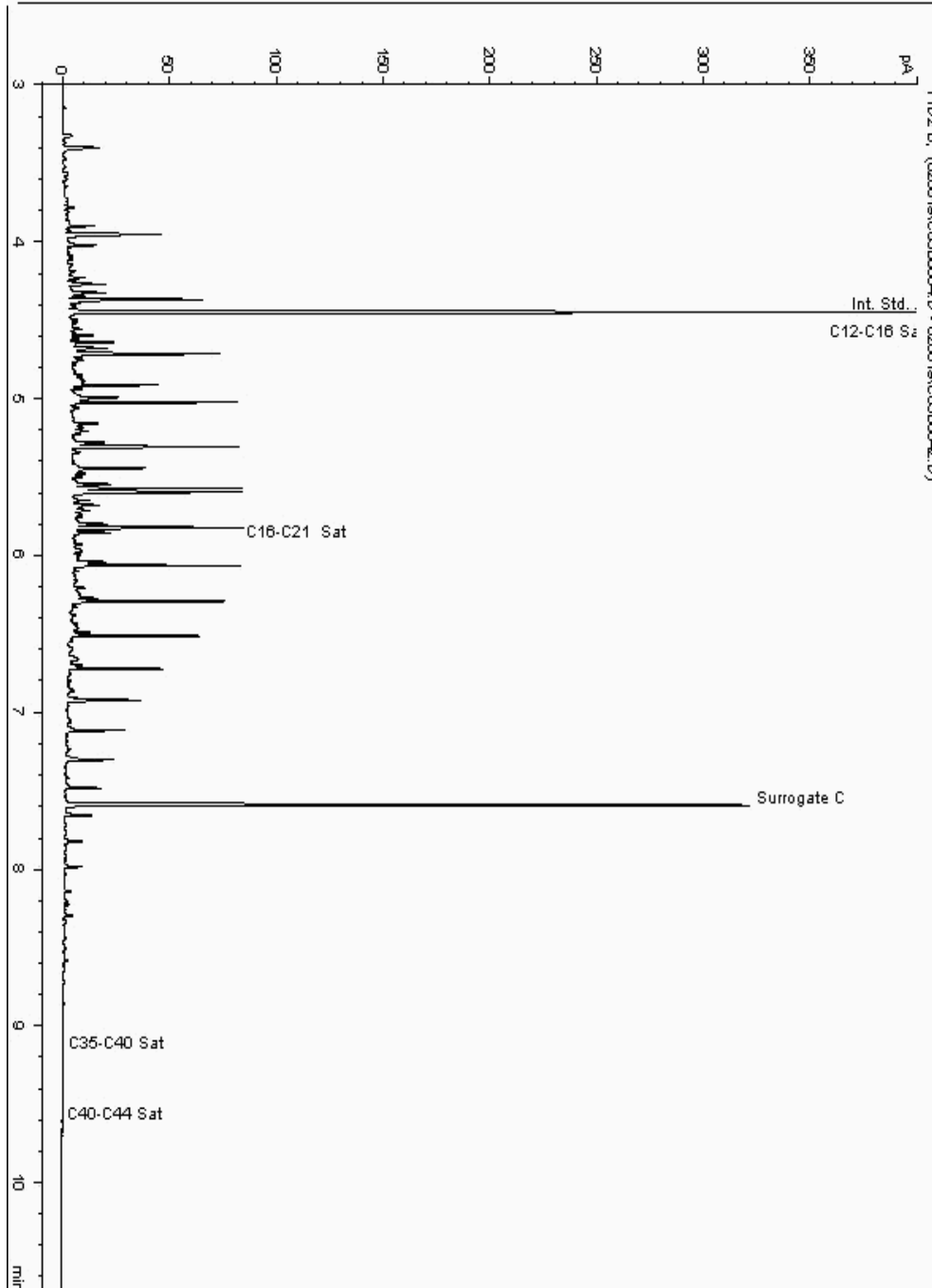
Analysis: EPH CWG (Aliphatic) GC (S)
19261866

Sample No :
Sample ID : BH245

19,261,866Depth :6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18093083-
Date Acquired : 07/02/2019 02:46:13 PM
Units : ppb
Dilution: BH245[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

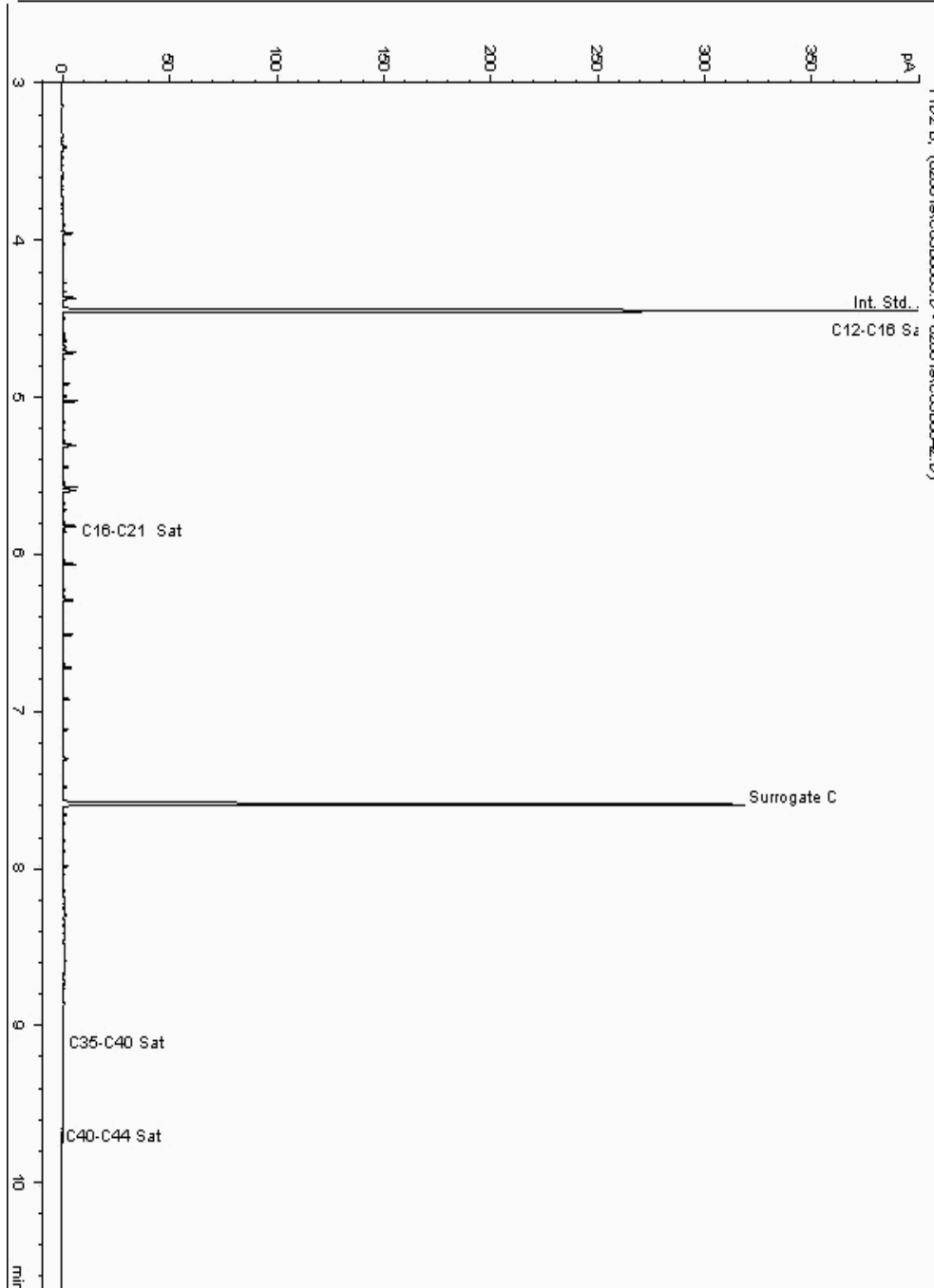
Analysis: EPH CWG (Aliphatic) GC (S)
19261936

Sample No :
Sample ID : BH246

19,261,936Depth :6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090998-
Date Acquired : 07/02/2019 02:25:52 PM
Units : ppb
Dilution: BH246[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

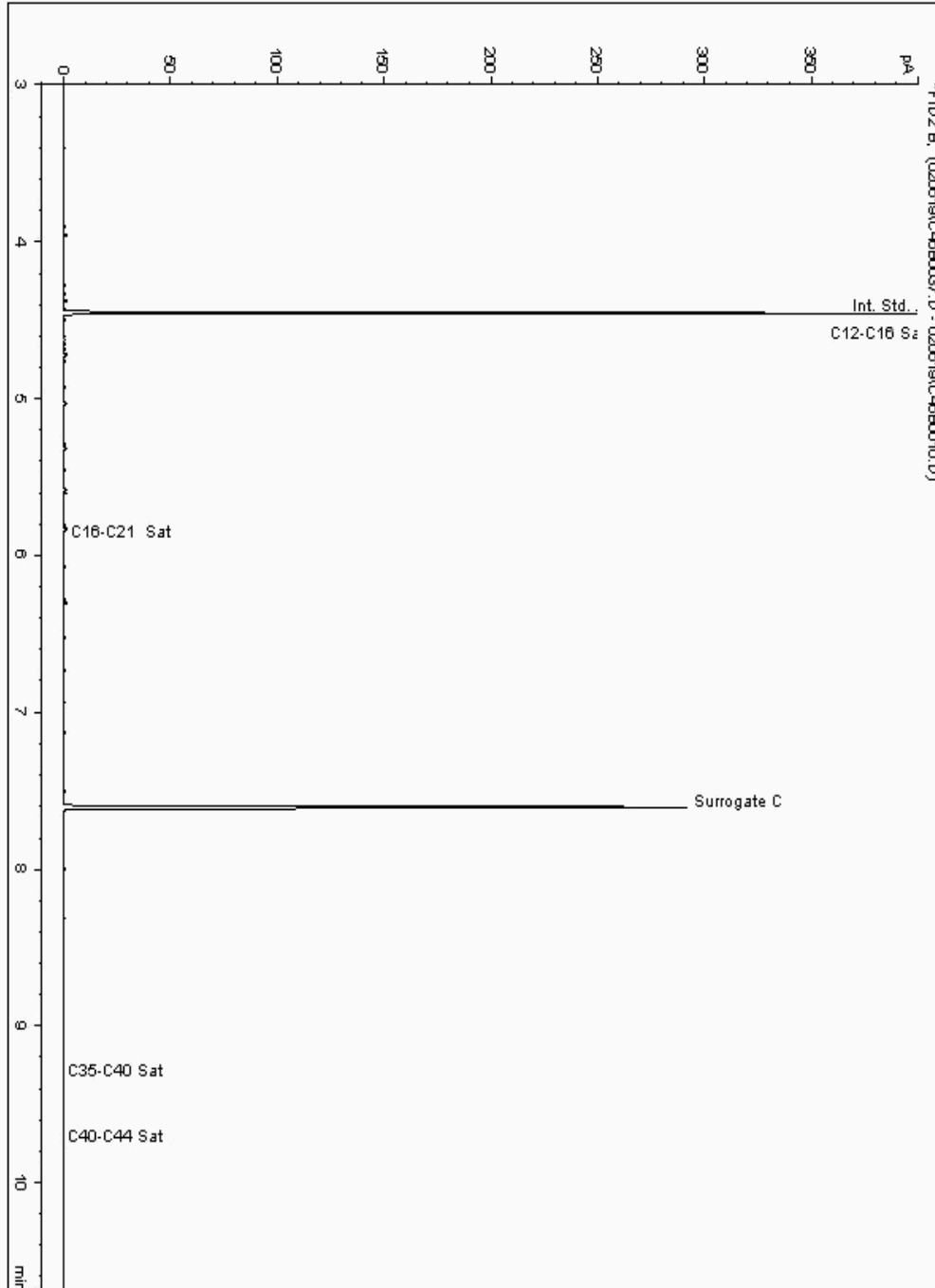
Analysis: EPH CWG (Aliphatic) GC (S)
19262054

Sample No :
Sample ID : BH246

19,262,054 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090913-
Date Acquired : 06/02/2019 23:13:33 PM
Units : ppb
Dilution: BH246[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

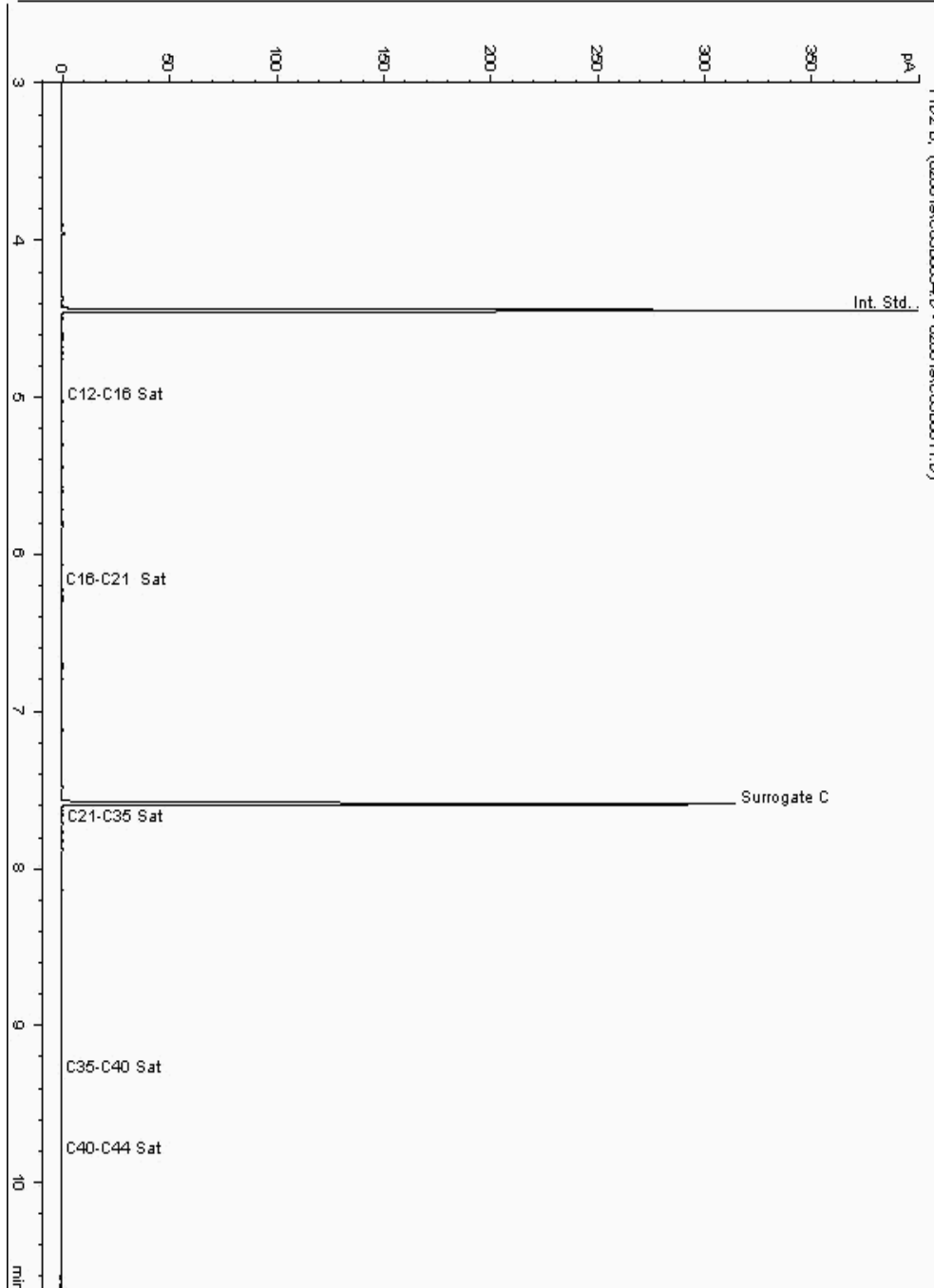
Analysis: EPH CWG (Aliphatic) GC (S)
19262116

Sample No :
Sample ID : BH244

19,262,116 Depth : 10.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092188-
Date Acquired : 06/02/2019 17:45:15 PM
Units : ppb
Dilution: BH244[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

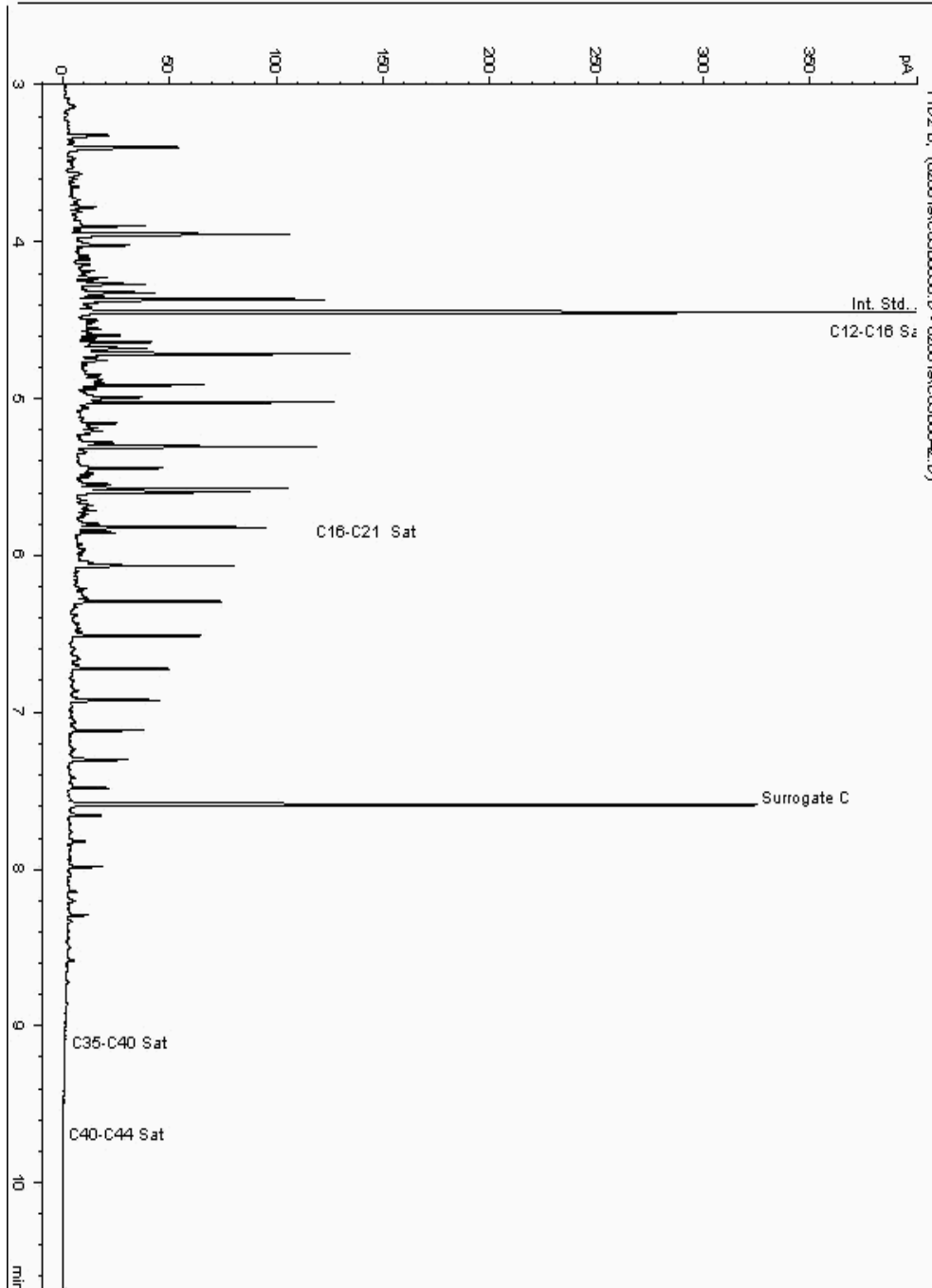
Analysis: EPH CWG (Aliphatic) GC (S)
19262188

Sample No :
Sample ID : BH246

19,262,188Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090838-
Date Acquired : 07/02/2019 01:01:01 PM
Units : ppb
Dilution: BH246[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

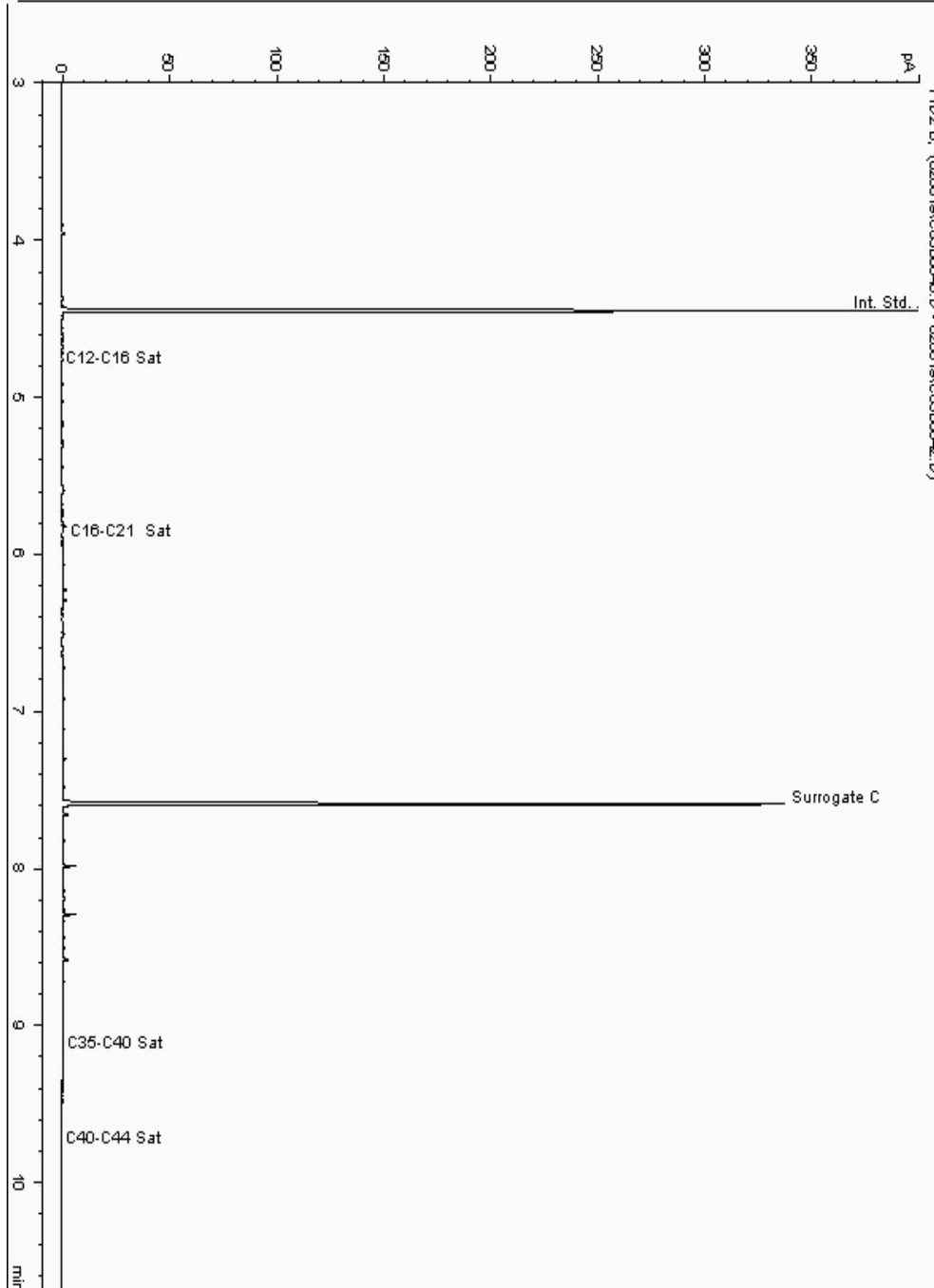
Analysis: EPH CWG (Aliphatic) GC (S)
19262257

Sample No :
Sample ID : BH246

19,262,257Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090740-
Date Acquired : 06/02/2019 21:29:18 PM
Units : ppb
Dilution: BH246[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

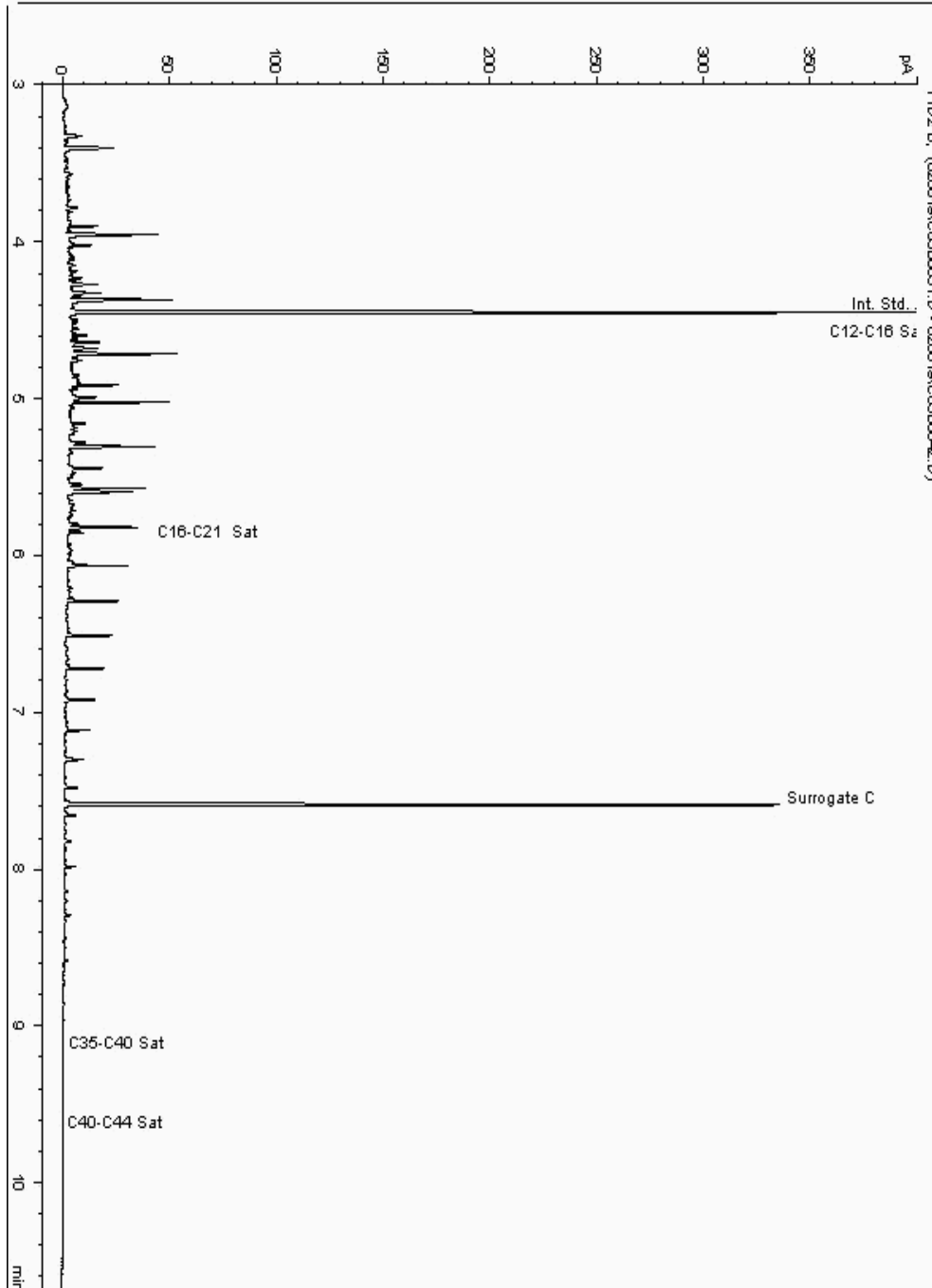
Analysis: EPH CWG (Aliphatic) GC (S)
19262360

Sample No :
Sample ID : BH246

19,262,360Depth :2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090787-
Date Acquired : 06/02/2019 22:54:47 PM
Units : ppb
Dilution: BH246[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

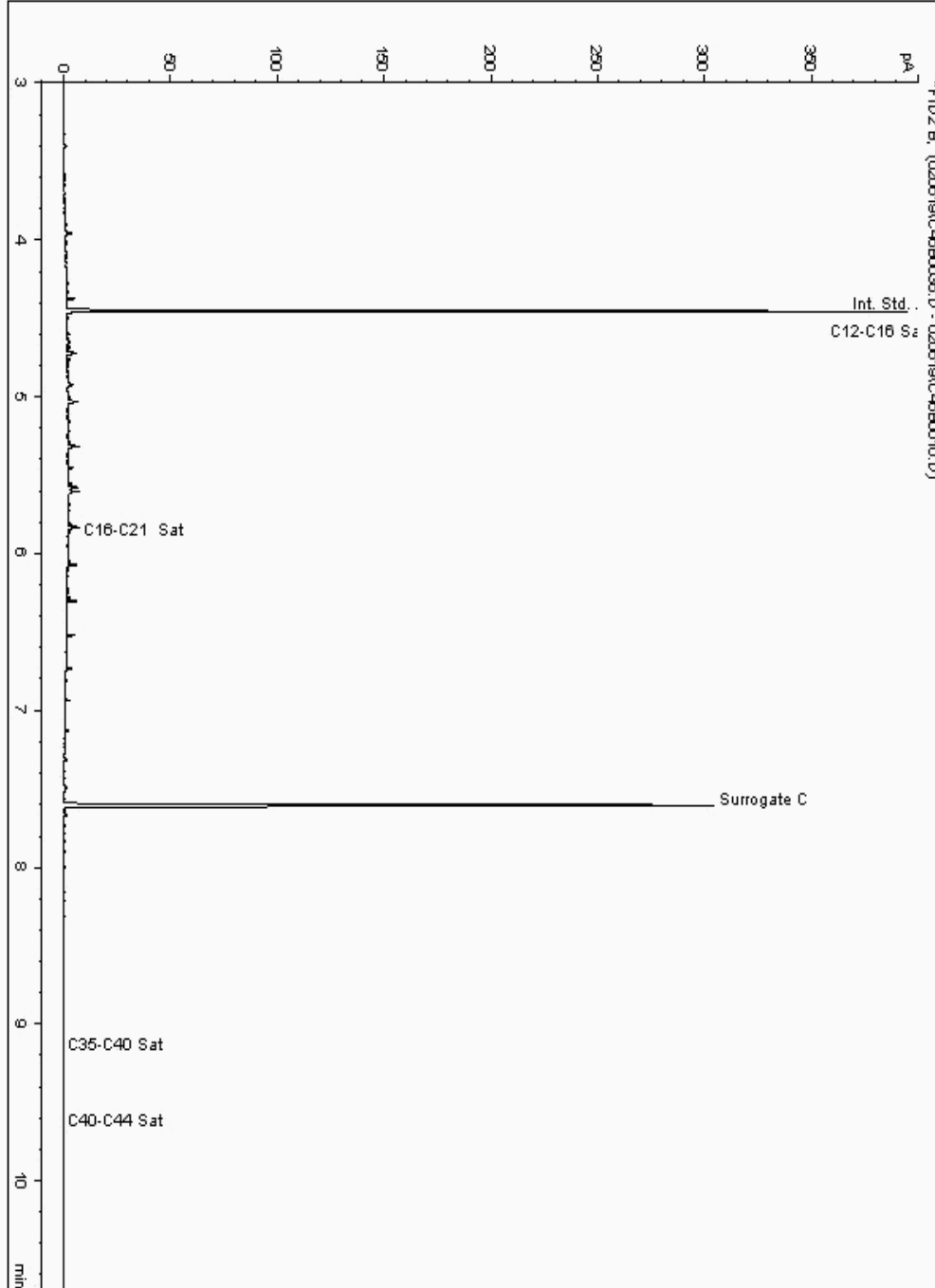
Analysis: EPH CWG (Aliphatic) GC (S)
19262791

Sample No :
Sample ID : BH245

19,262,791 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18093188-
Date Acquired : 06/02/2019 22:53:17 PM
Units : ppb
Dilution: BH245[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

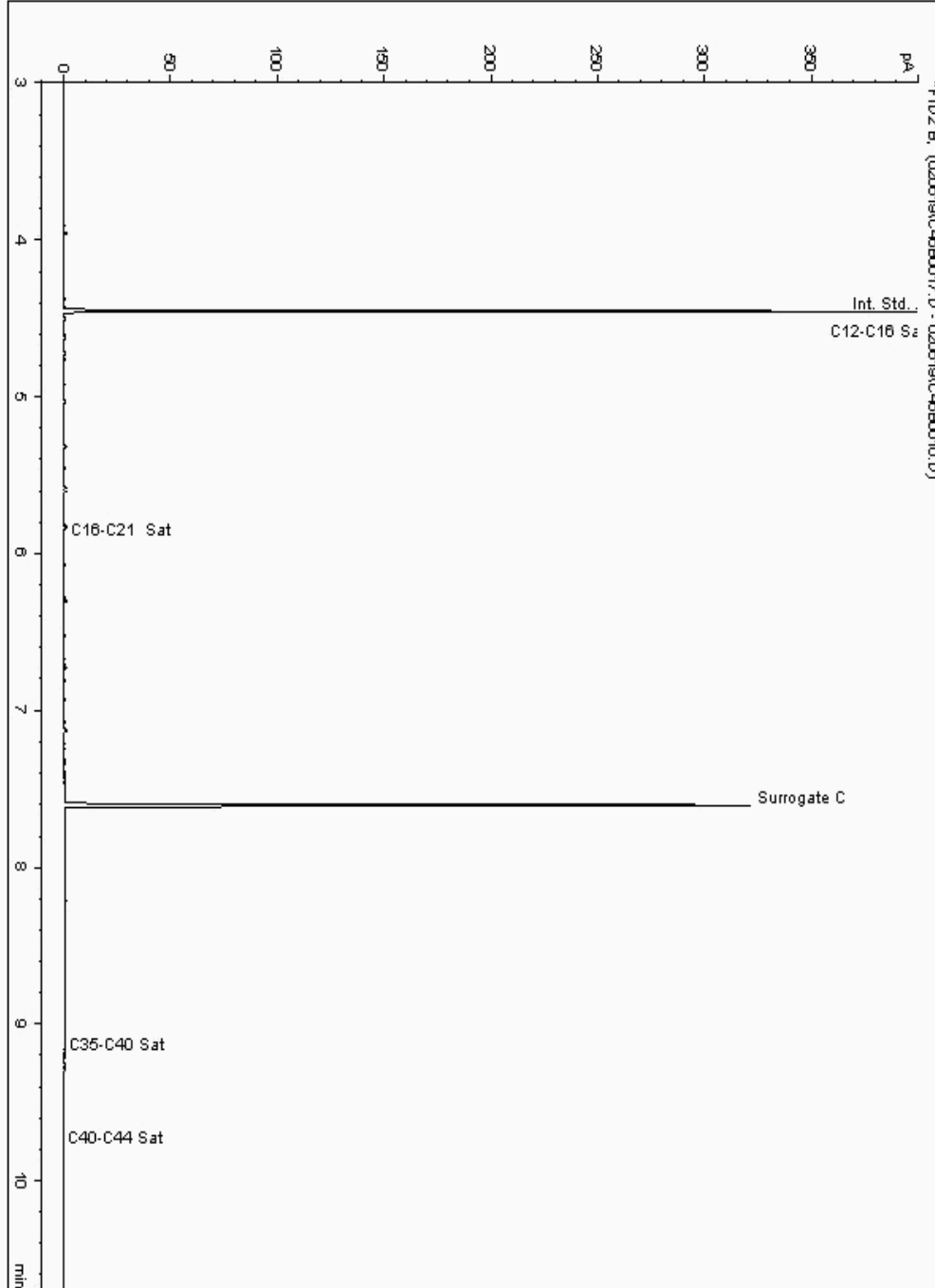
Analysis: EPH CWG (Aliphatic) GC (S)
19262881

Sample No :
Sample ID : BH245

19,262,881 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18093334-
Date Acquired : 06/02/2019 17:50:58 PM
Units : ppb
Dilution: BH245[12.00 - 13.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

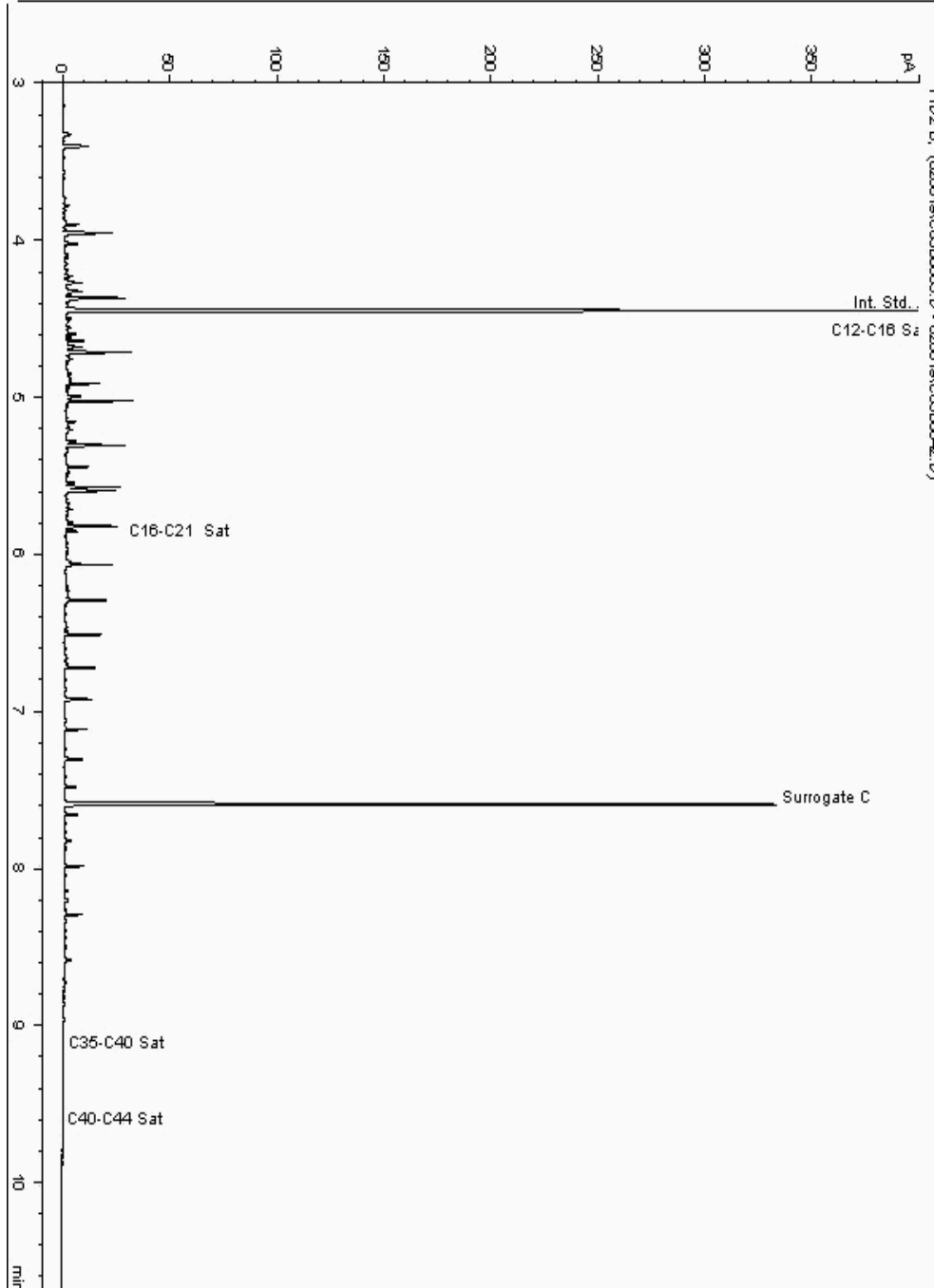
Analysis: EPH CWG (Aliphatic) GC (S)
19262962

Sample No :
Sample ID : BH246

19,262,962Depth :4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18090581-
Date Acquired : 07/02/2019 03:06:34 PM
Units : ppb
Dilution: BH246[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

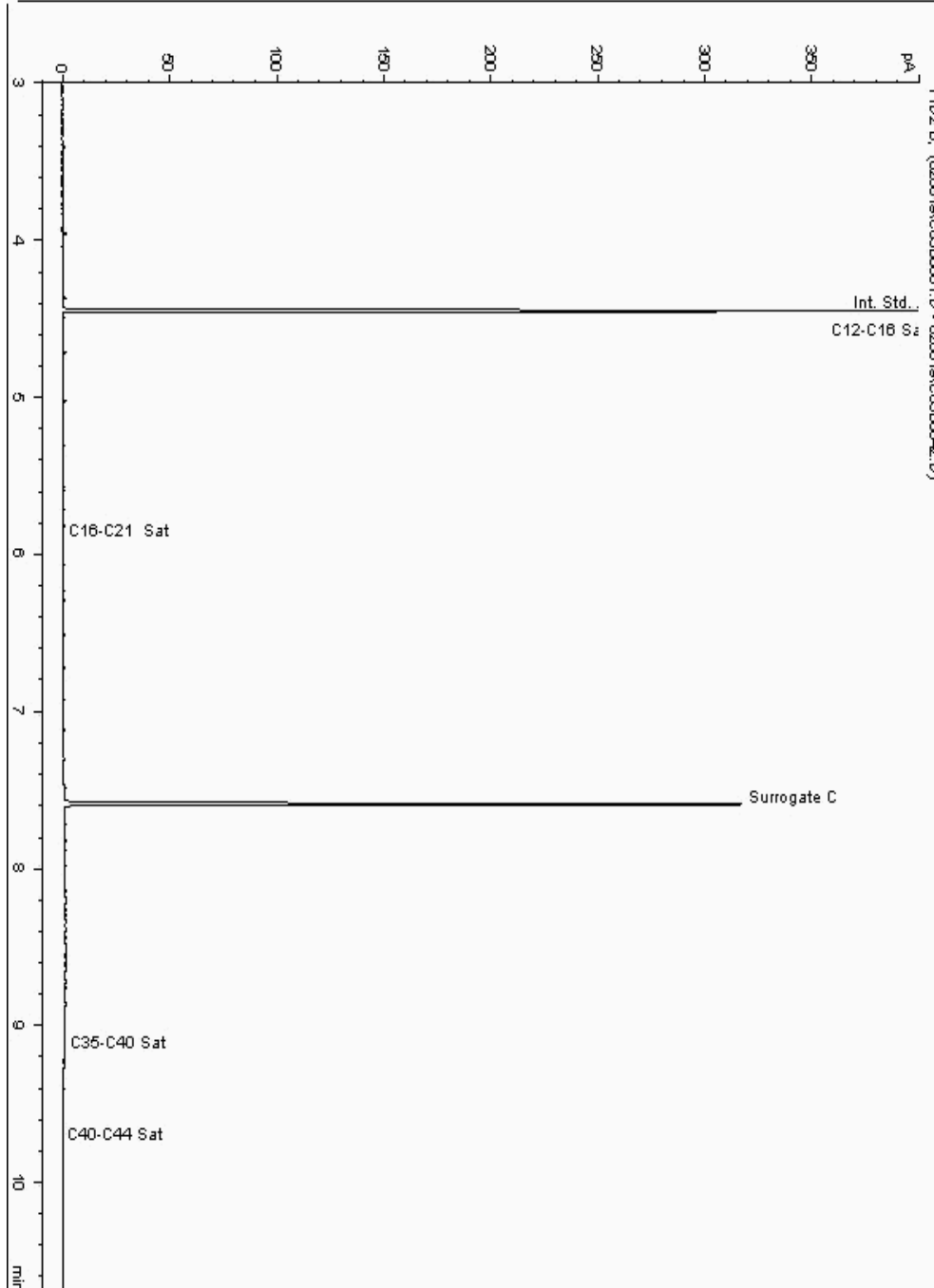
Analysis: EPH CWG (Aliphatic) GC (S)
19263146

Sample No :
Sample ID : BH246

19,263,146 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091134-
Date Acquired : 07/02/2019 01:45:12 PM
Units : ppb
Dilution: BH246[14.00 - 15.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

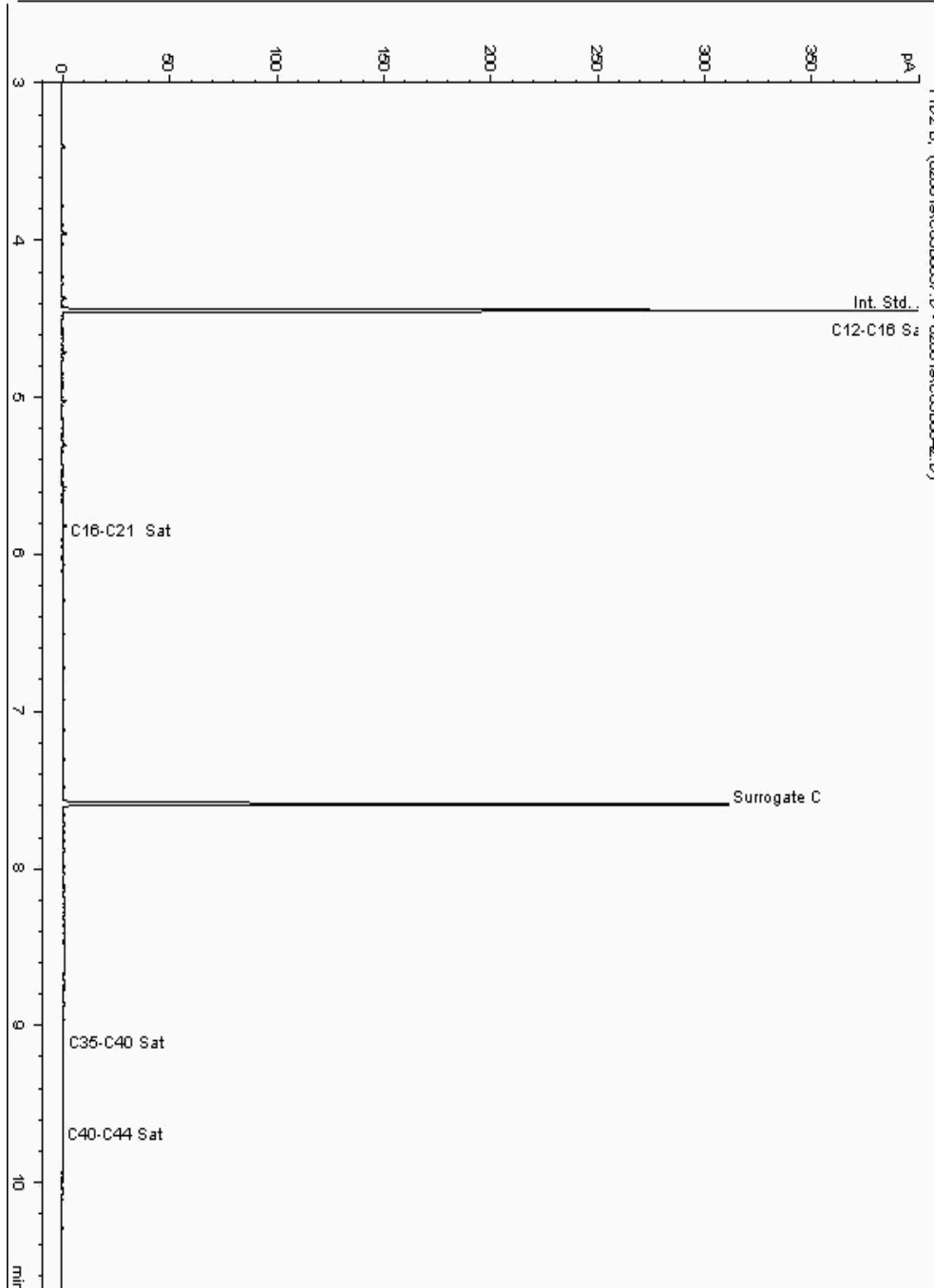
Analysis: EPH CWG (Aliphatic) GC (S)
19263201

Sample No :
Sample ID : BH246

19,263,201 Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091198-
Date Acquired : 07/02/2019 00:40:37 PM
Units : ppb
Dilution: BH246[16.00 - 17.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

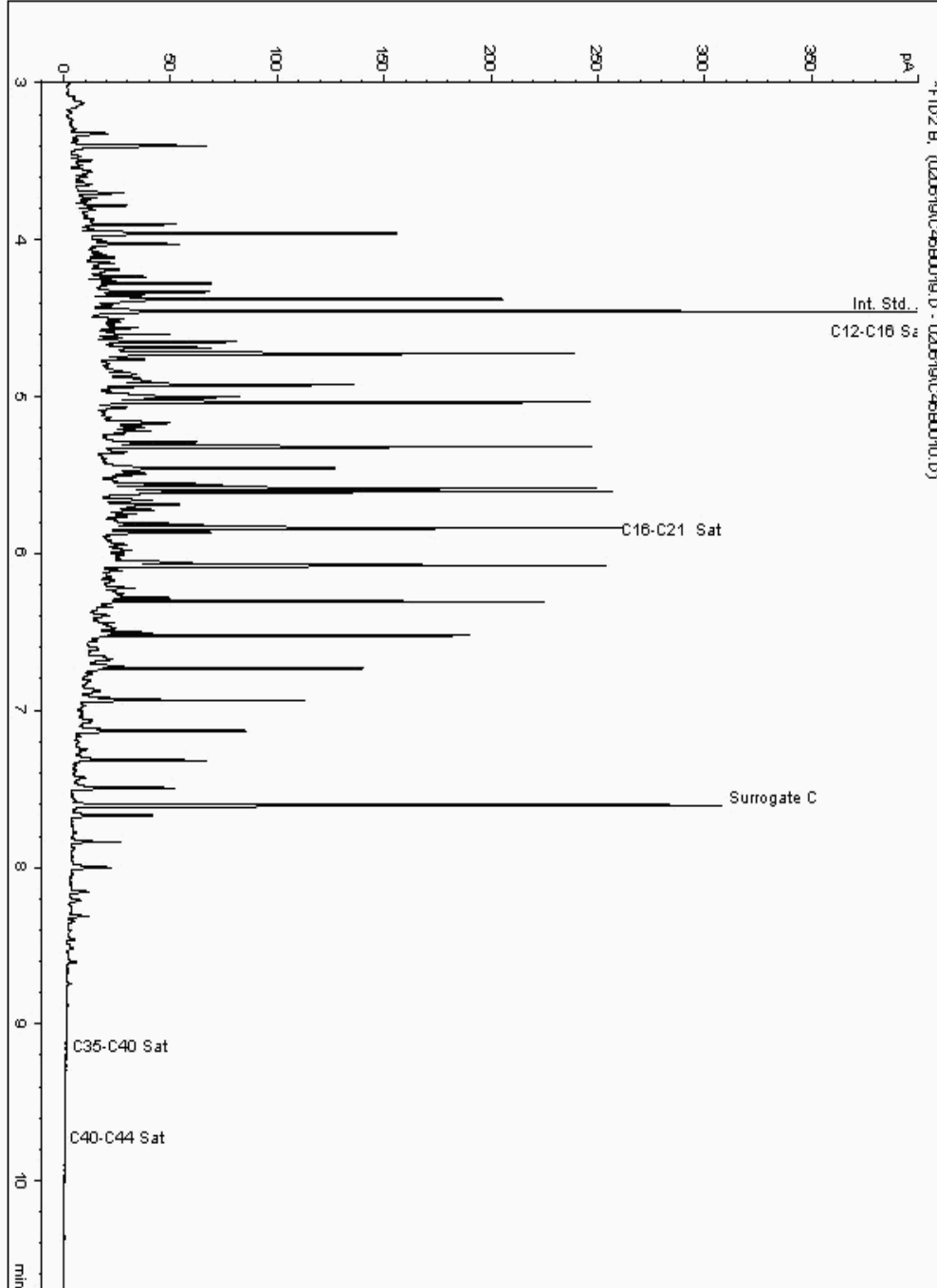
Analysis: EPH CWG (Aliphatic) GC (S)
19263252

Sample No :
Sample ID : BH245

19,263,252Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092775-
Date Acquired : 06/02/2019 18:31:28 PM
Units : ppb
Dilution: BH245[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

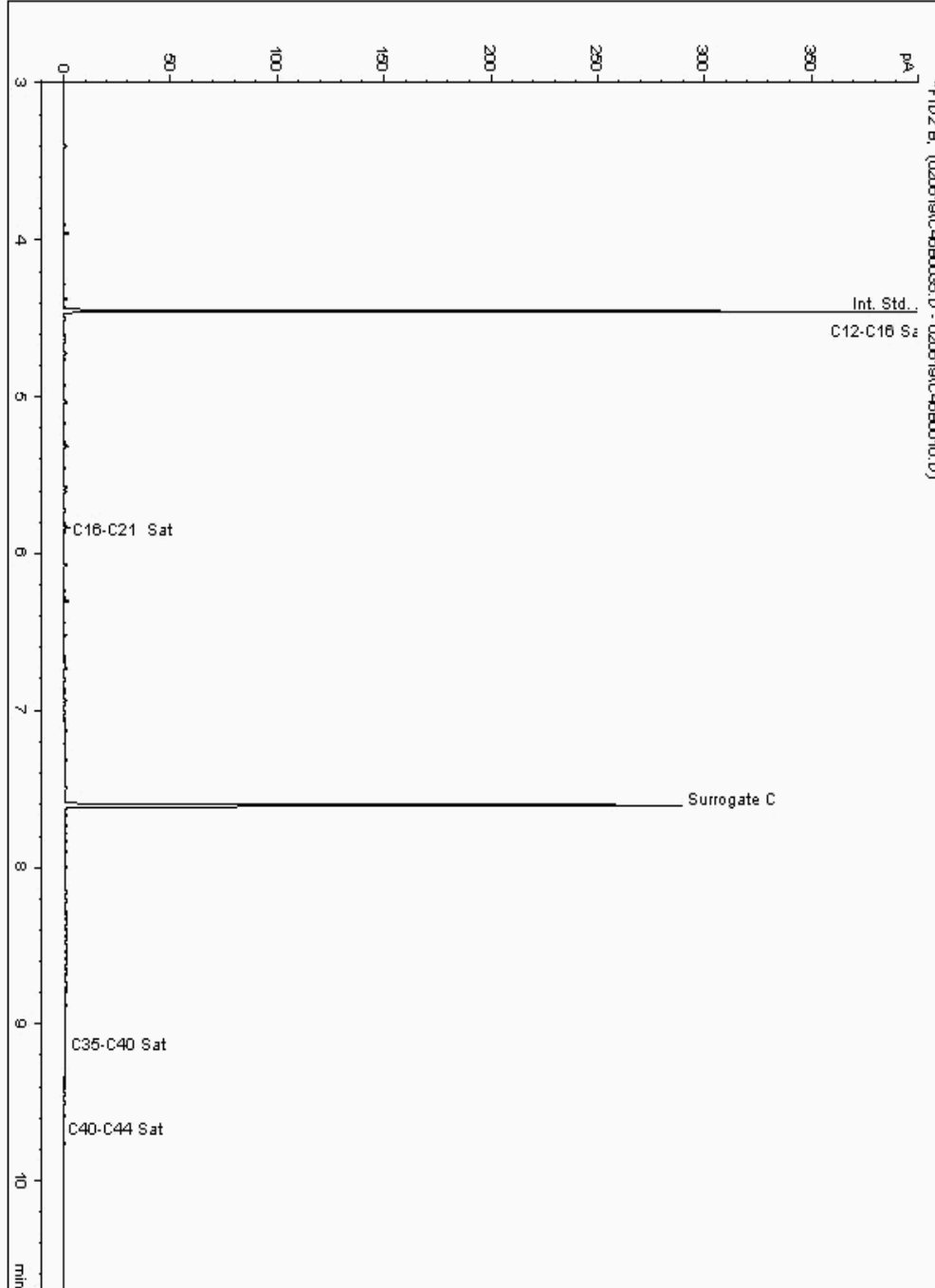
Analysis: EPH CWG (Aliphatic) GC (S)
19263315

Sample No :
Sample ID : BH245

19,263,315 Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18093365-
Date Acquired : 06/02/2019 22:33:01 PM
Units : ppb
Dilution: BH245[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

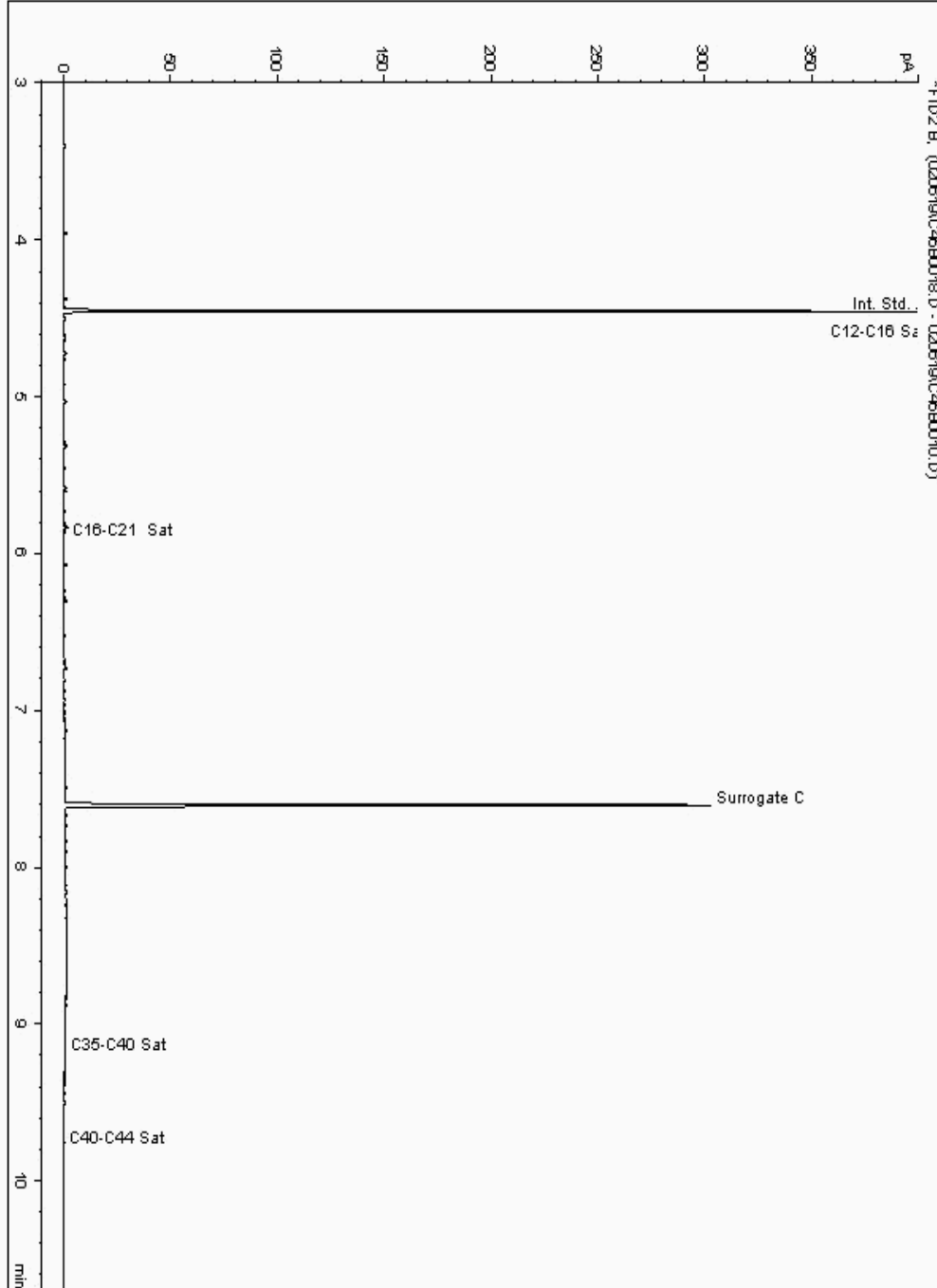
Analysis: EPH CWG (Aliphatic) GC (S)
19263366

Sample No :
Sample ID : BH246

19,263,366 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091081-
Date Acquired : 06/02/2019 18:11:20 PM
Units : ppb
Dilution: BH246[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

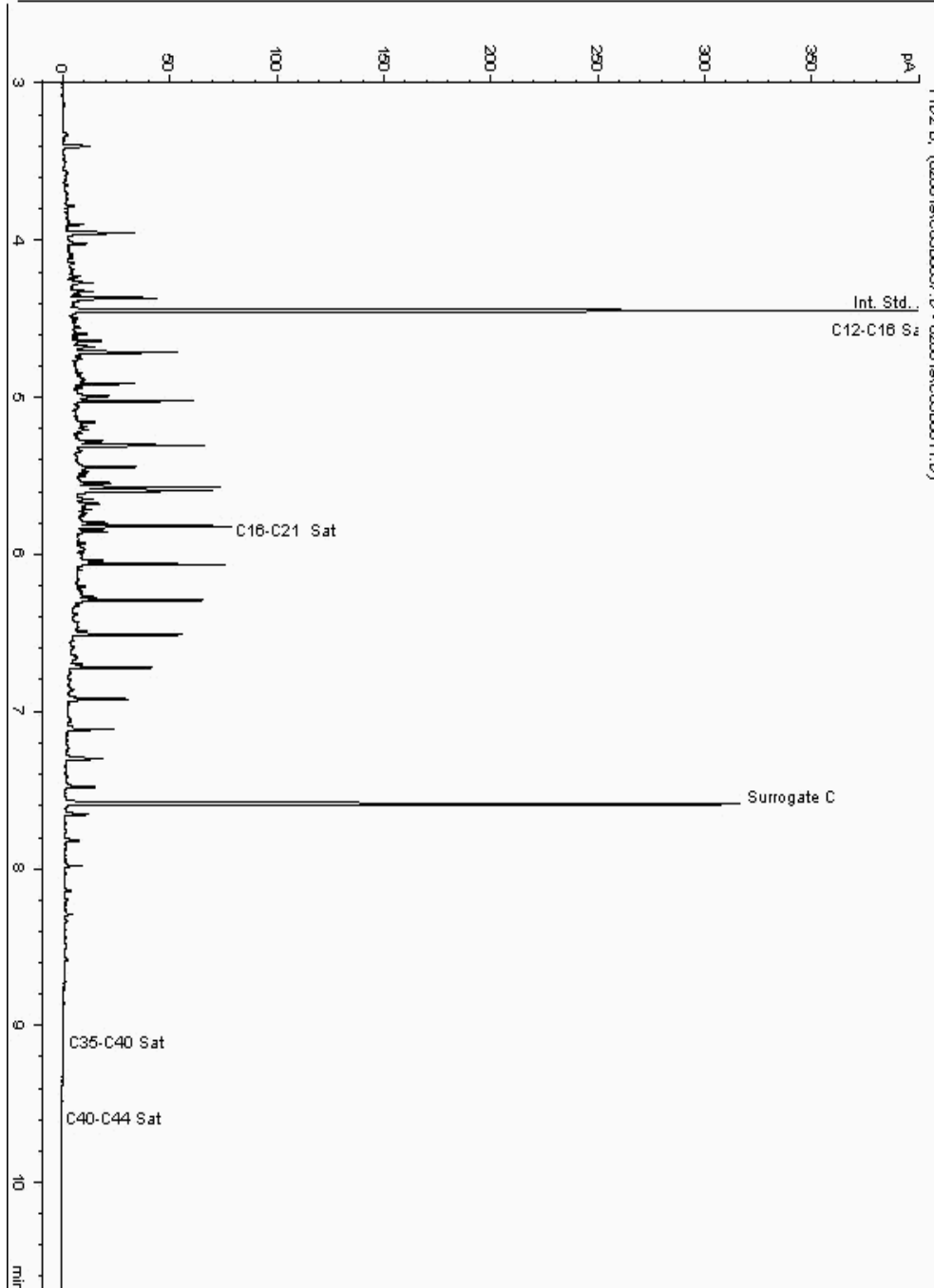
Analysis: EPH CWG (Aliphatic) GC (S)
19263433

Sample No :
Sample ID : BH244

19,263,433 Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091887-
Date Acquired : 06/02/2019 18:46:06 PM
Units : ppb
Dilution: BH244[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

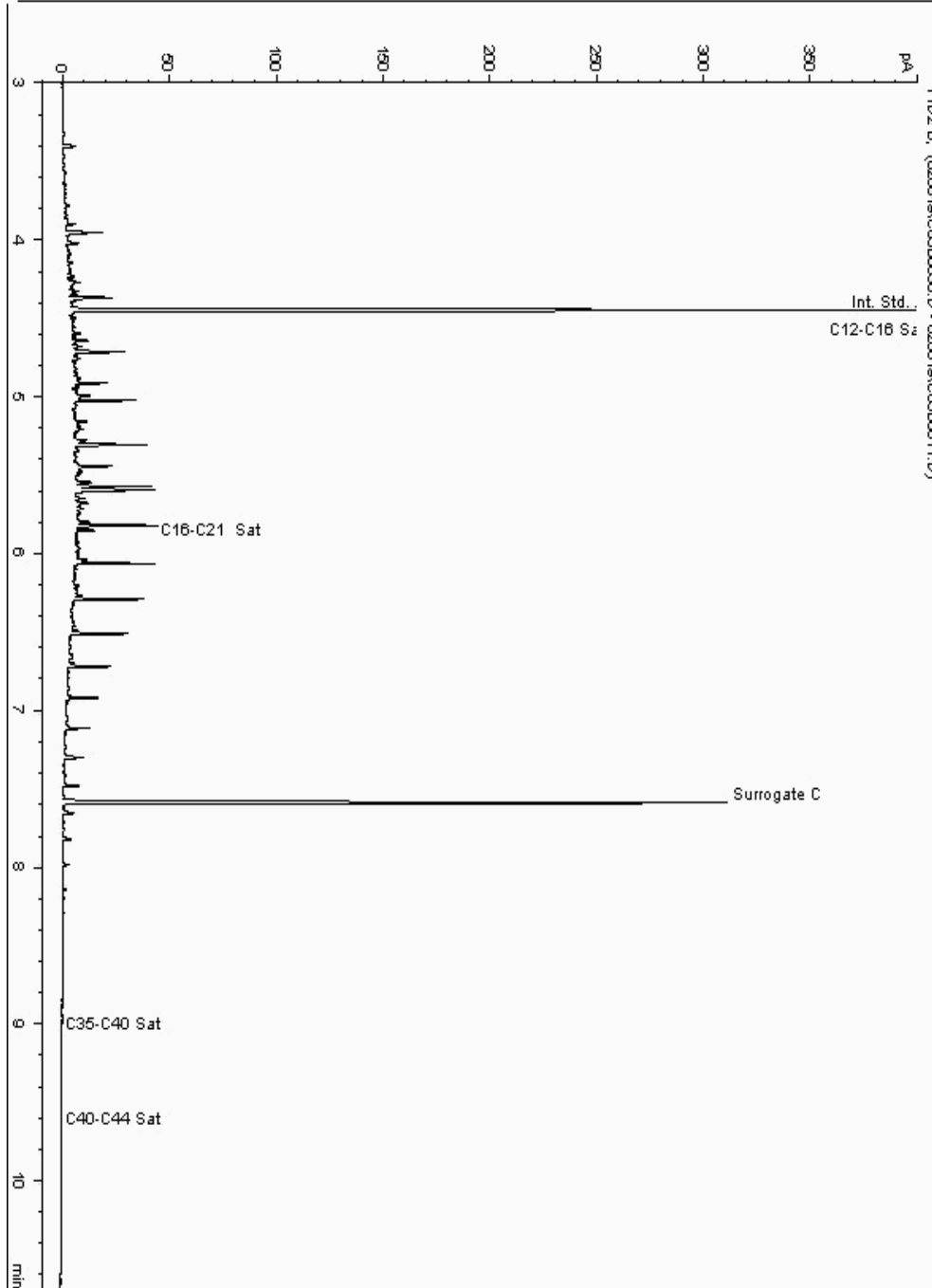
Analysis: EPH CWG (Aliphatic) GC (S)
19263441

Sample No :
Sample ID : BH244

19,263,441 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091942-
Date Acquired : 06/02/2019 18:25:49 PM
Units : ppb
Dilution: BH244[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

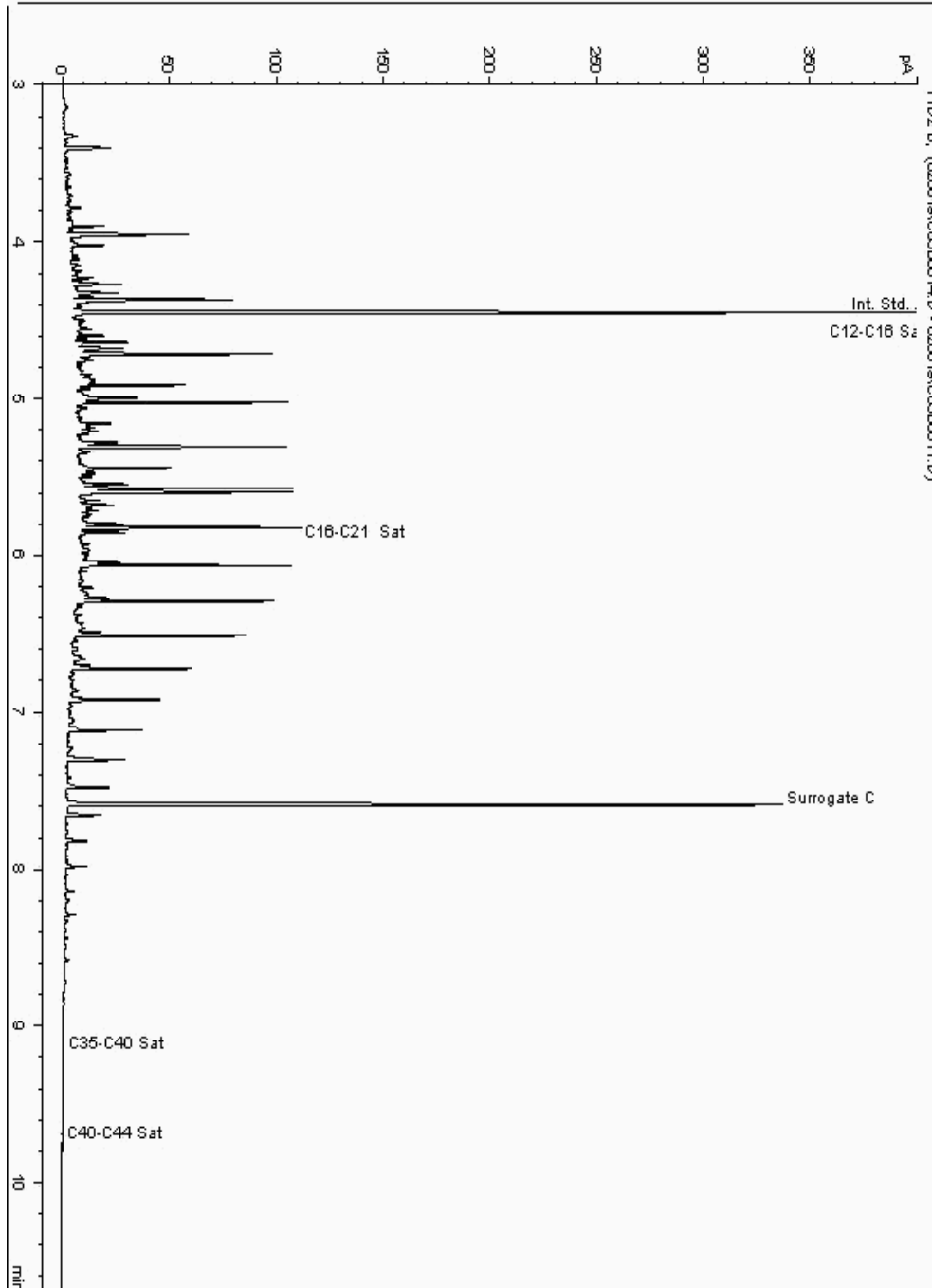
Analysis: EPH CWG (Aliphatic) GC (S)
19266194

Sample No :
Sample ID : BH245

19,266,194Depth :5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092986-
Date Acquired : 06/02/2019 11:14:26 PM
Units : ppb
Dilution: BH245[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

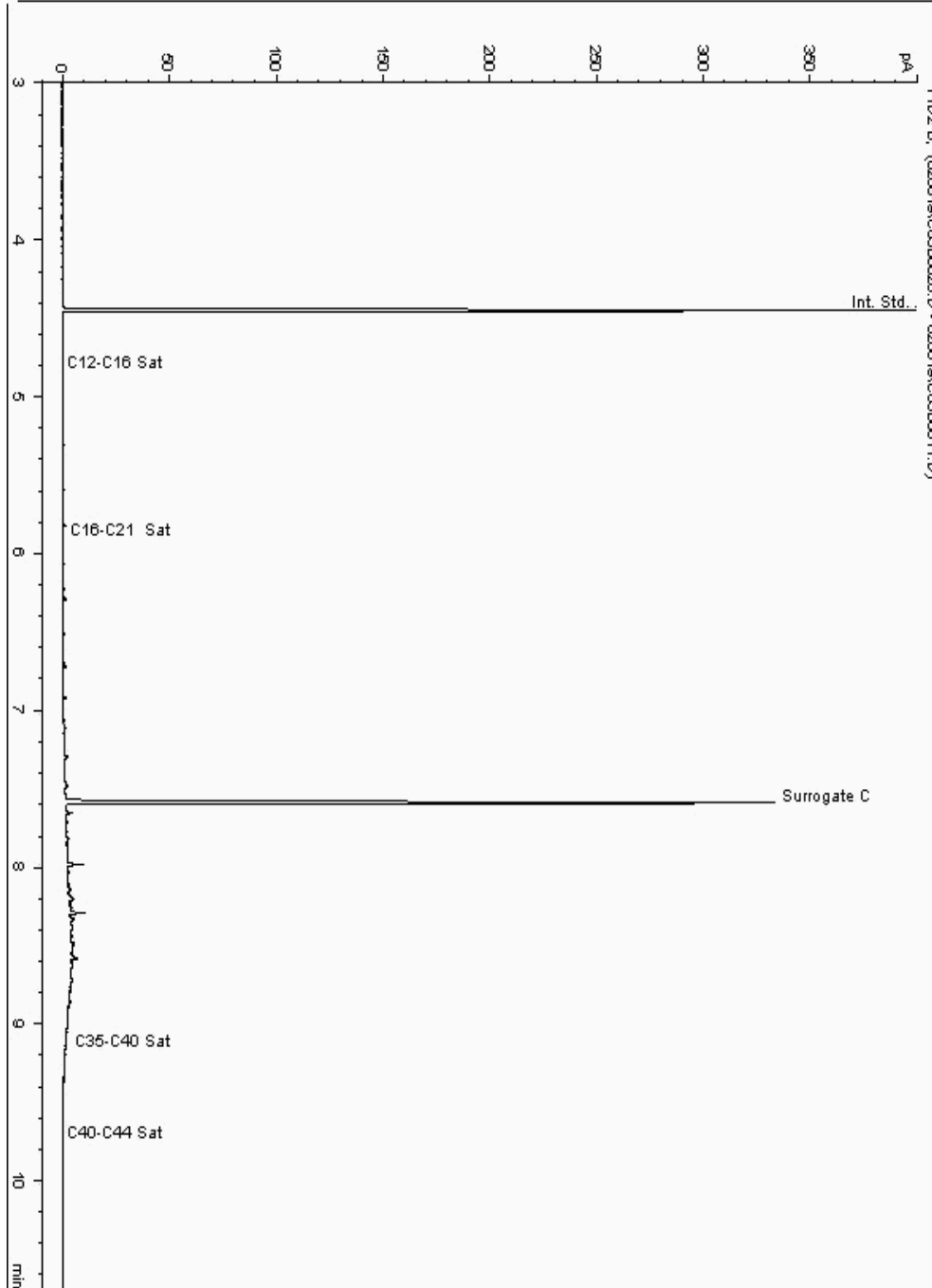
Analysis: EPH CWG (Aliphatic) GC (S)
19266483

Sample No :
Sample ID : BH244

19,266,483 Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091777-
Date Acquired : 06/02/2019 12:51:31 PM
Units : ppb
Dilution: BH244[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

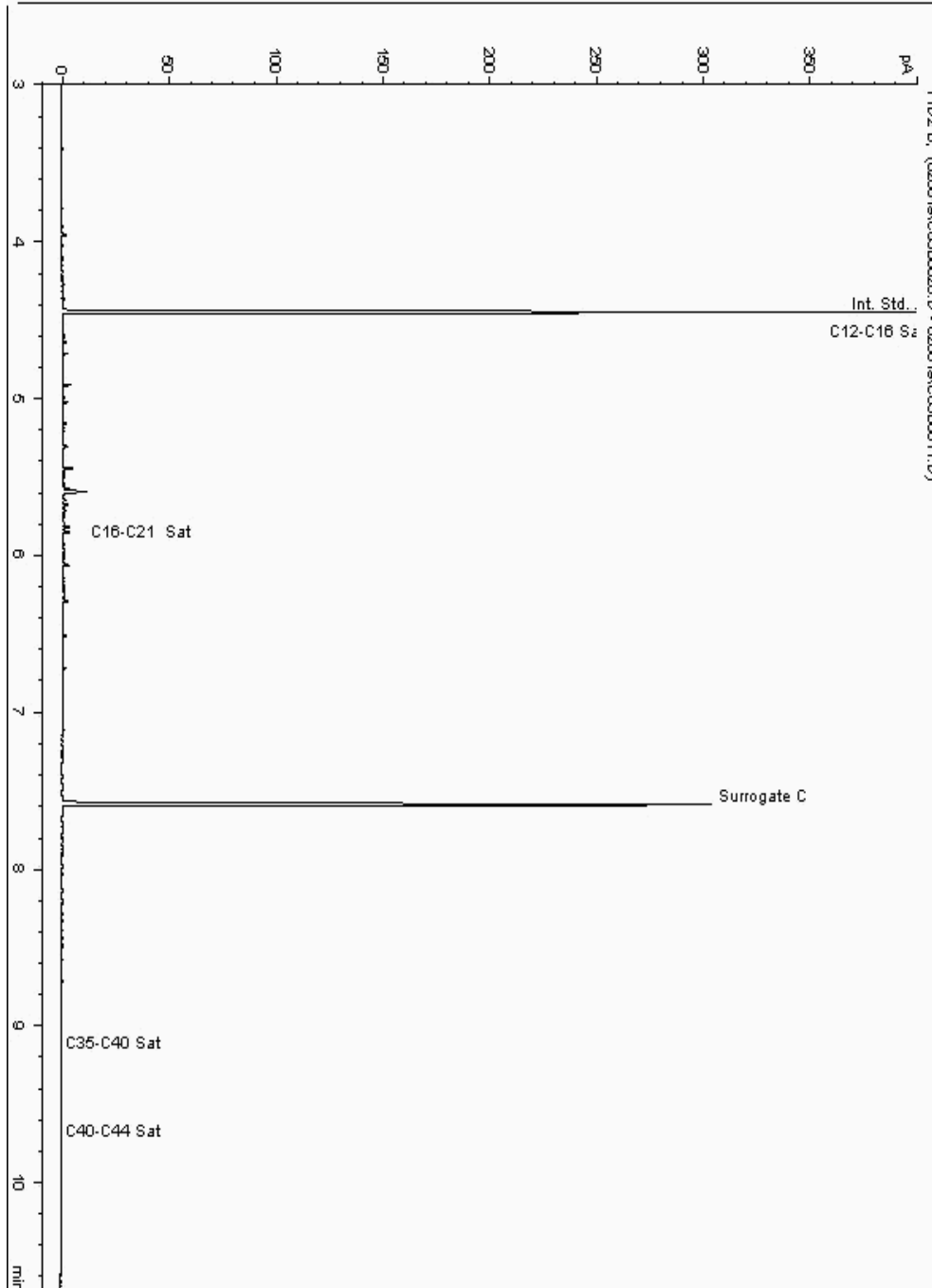
Analysis: EPH CWG (Aliphatic) GC (S)
19266622

Sample No :
Sample ID : BH244

19,266,622Depth :8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092105-
Date Acquired : 06/02/2019 15:19:26 PM
Units : ppb
Dilution: BH244[8.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

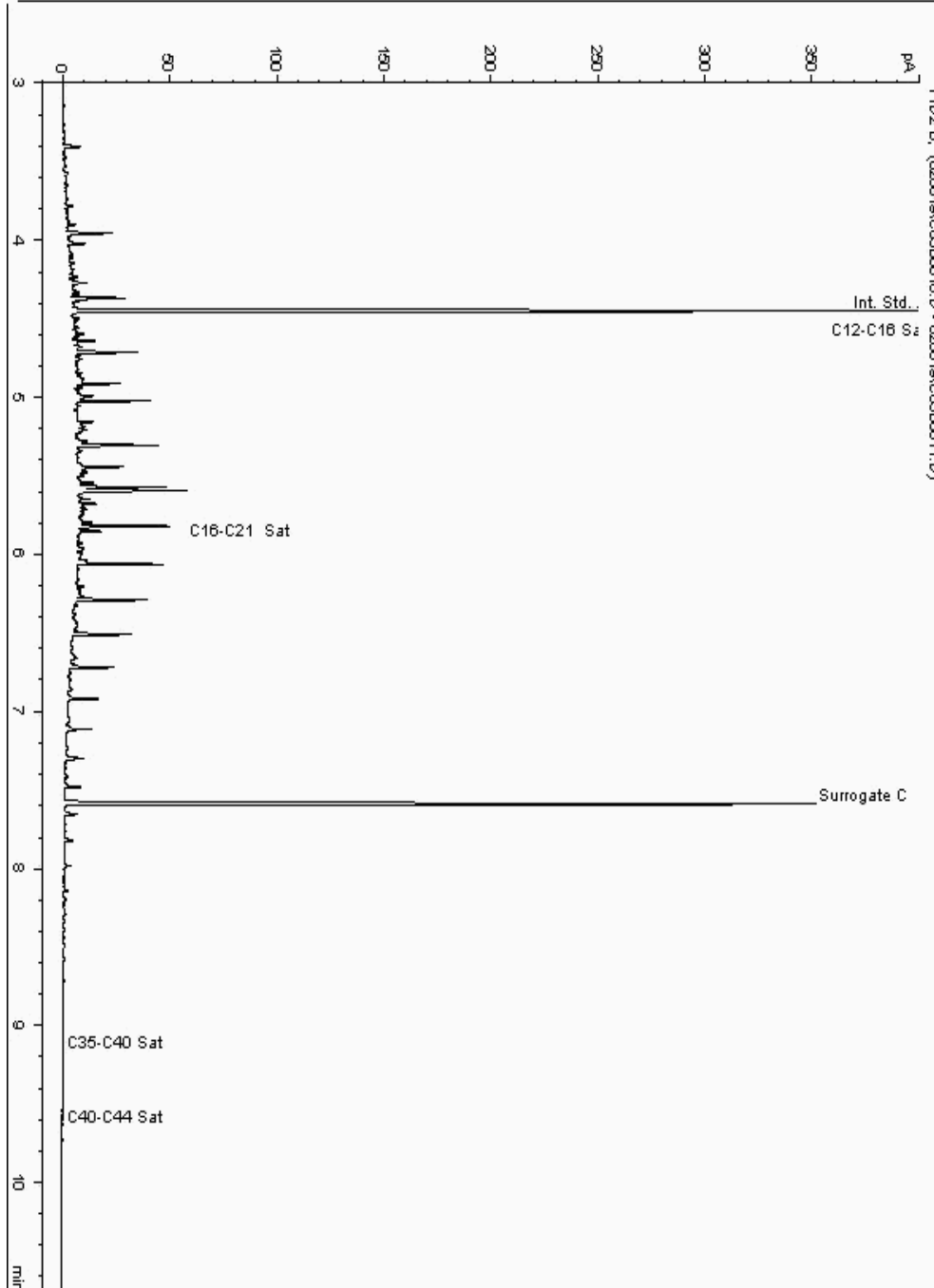
Analysis: EPH CWG (Aliphatic) GC (S)
19266810

Sample No :
Sample ID : BH244

19,266,810 Depth : 7.00 - 8.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092023-
Date Acquired : 06/02/2019 11:46:51 PM
Units : ppb
Dilution: BH244[7.00 - 8.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

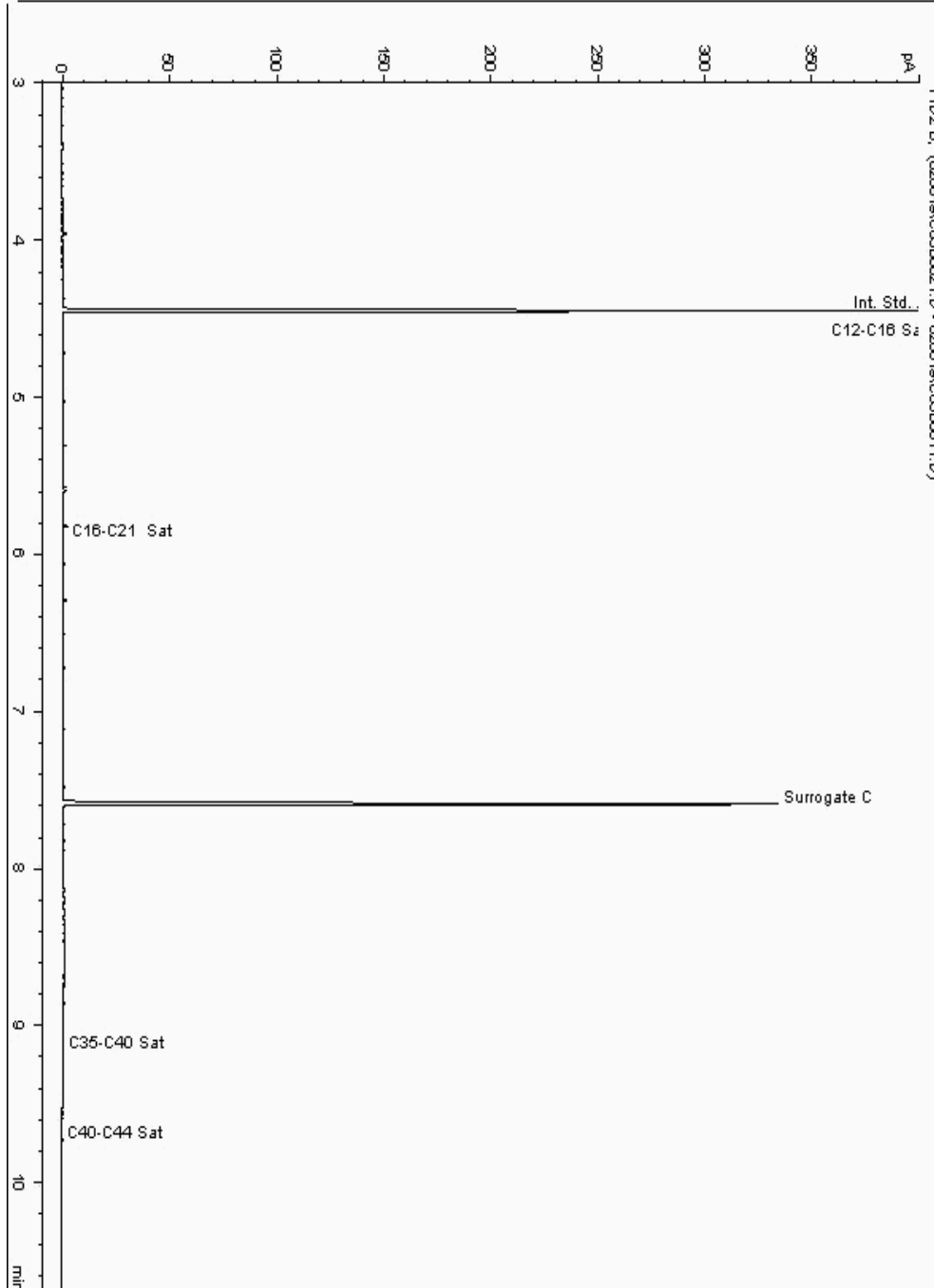
Analysis: EPH CWG (Aliphatic) GC (S)
19266952

Sample No :
Sample ID : BH244

19,266,952 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092352-
Date Acquired : 06/02/2019 13:12:03 PM
Units : ppb
Dilution: BH244[14.00 - 15.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

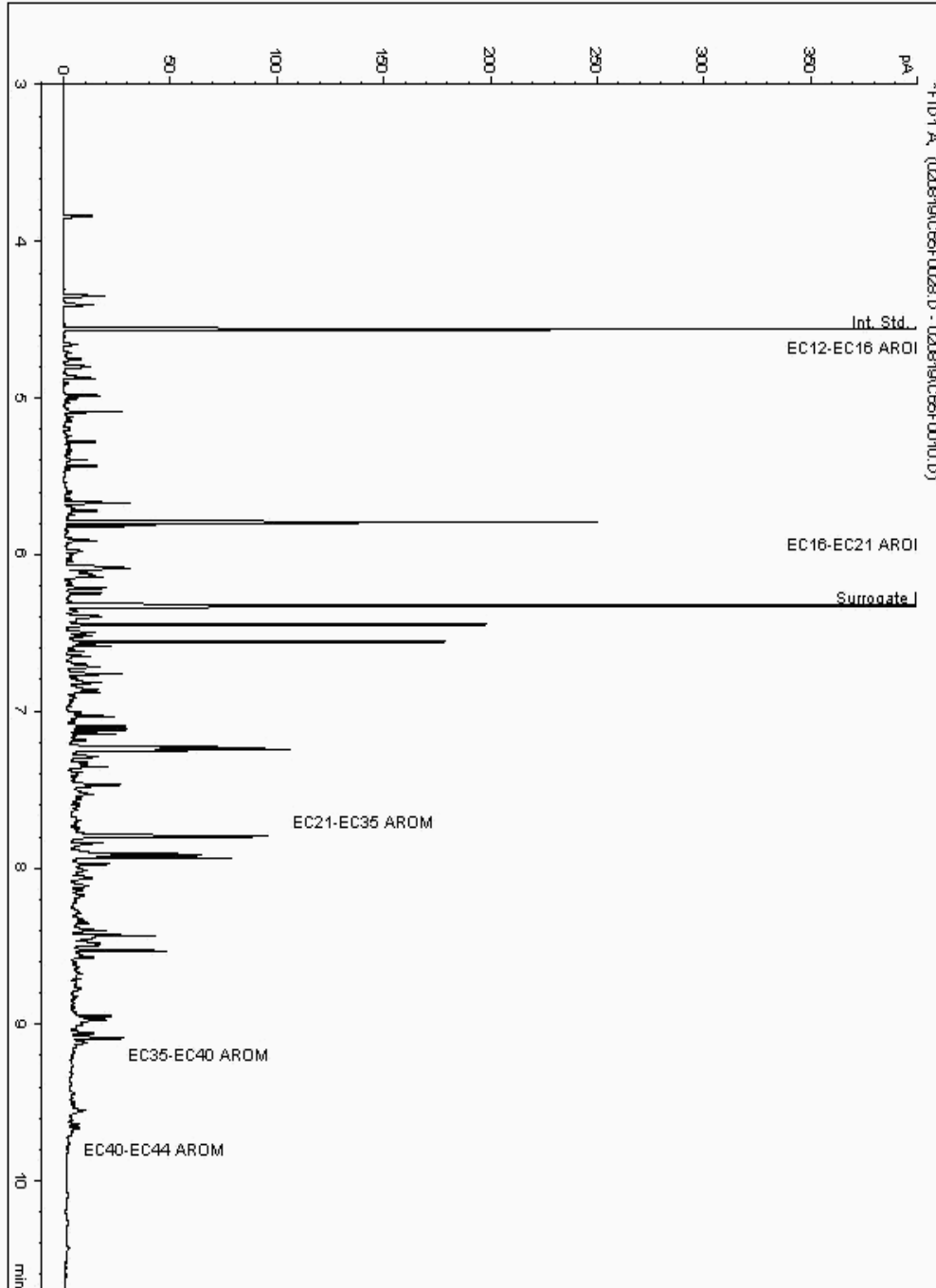
Analysis: EPH CWG (Aromatic) GC (S)
19259353

Sample No :
Sample ID : BH244

19,259,353Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091674-
Date Acquired : 08/02/2019 14:54:34 PM
Units : ppb
Dilution: BH244[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

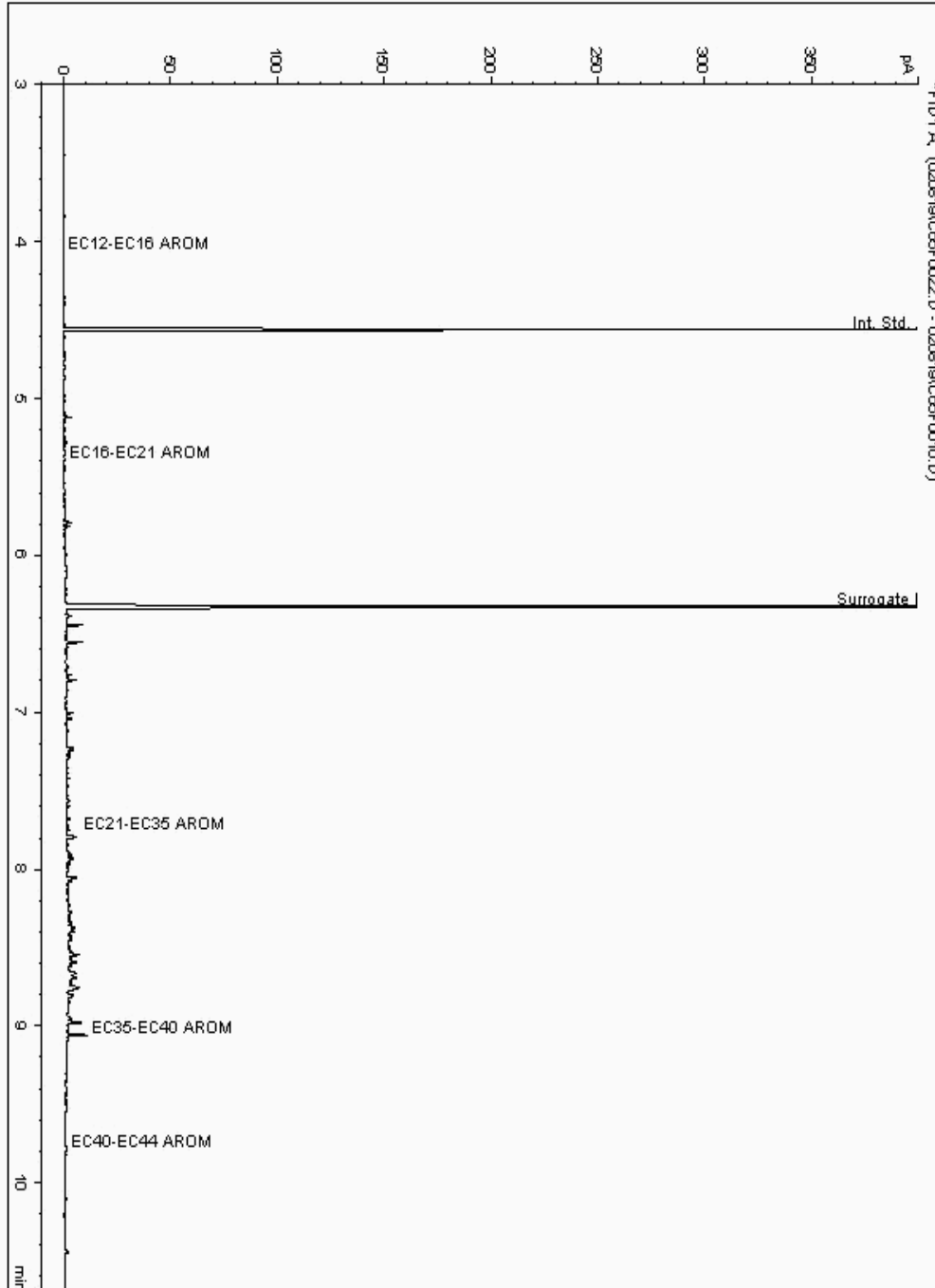
Analysis: EPH CWG (Aromatic) GC (S)
19259461

Sample No :
Sample ID : BH244

19,259,461 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091830-
Date Acquired : 08/02/2019 13:16:06 PM
Units : ppb
Dilution: BH244[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

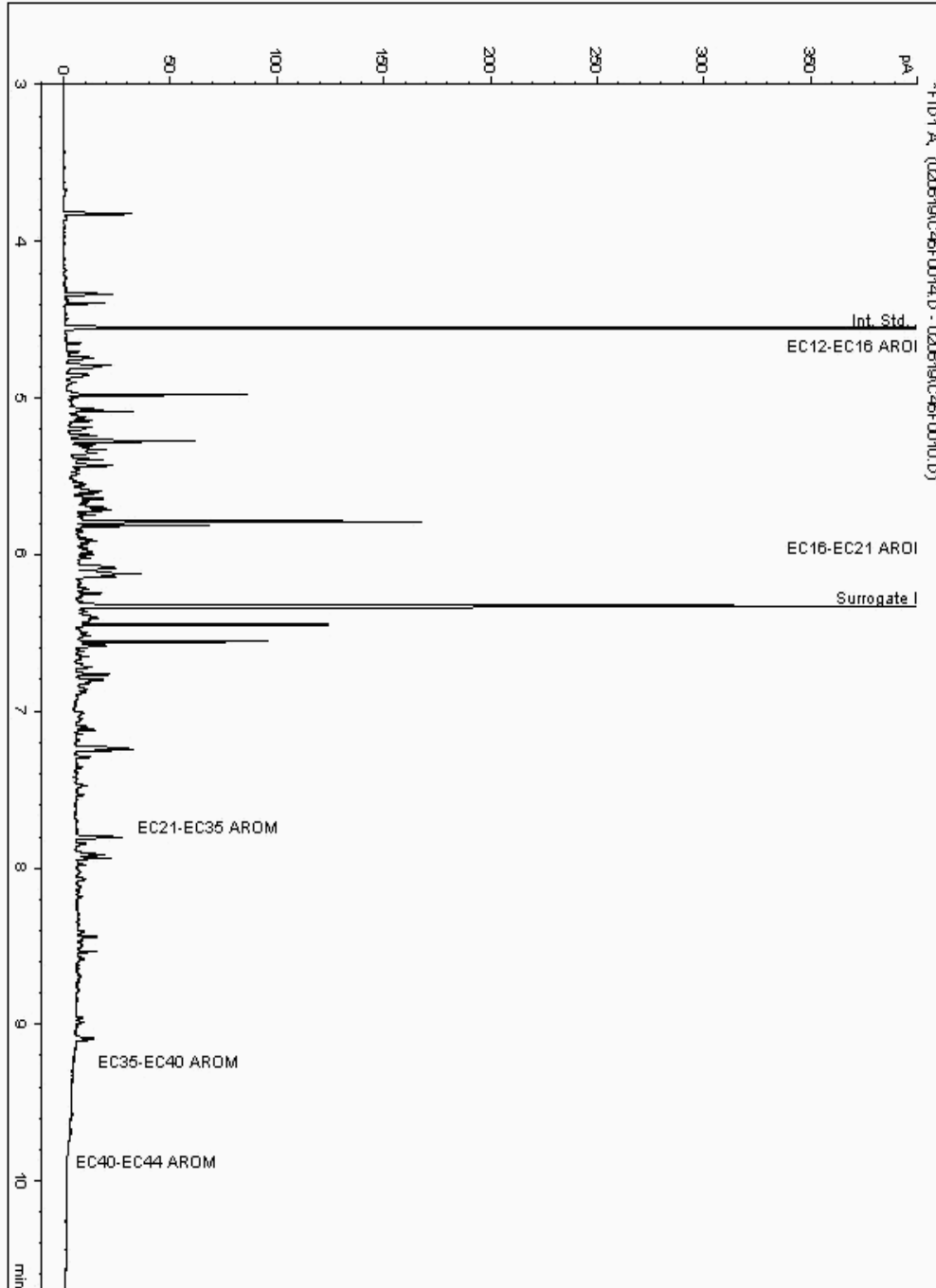
Analysis: EPH CWG (Aromatic) GC (S)
19260990

Sample No :
Sample ID : BH245

19,260,990Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092636-
Date Acquired : 06/02/2019 16:58:13 PM
Units : ppb
Dilution: BH245[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

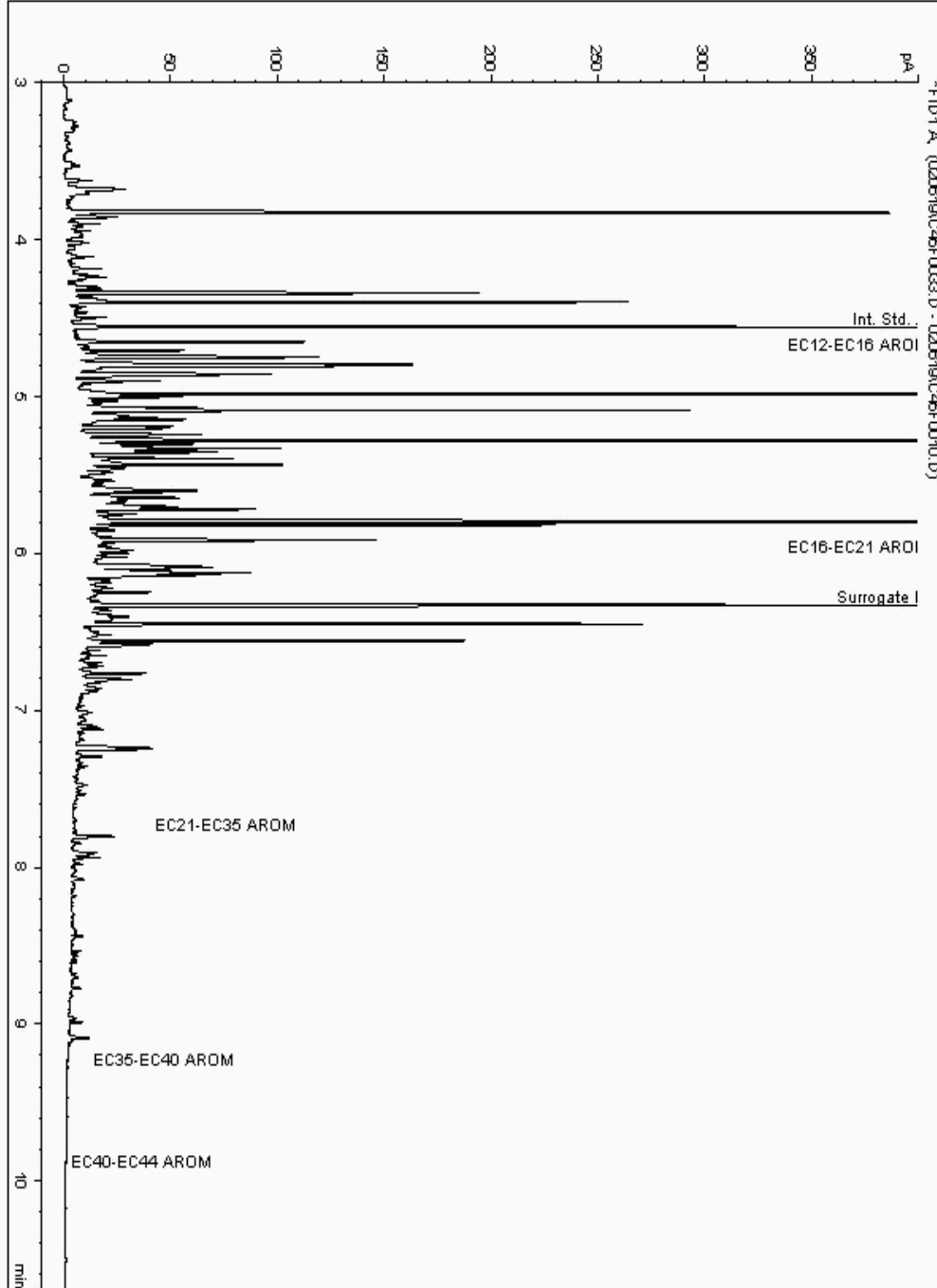
Analysis: EPH CWG (Aromatic) GC (S)
19261019

Sample No :
Sample ID : BH245

19,261,019Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092700-
Date Acquired : 06/02/2019 22:00:42 PM
Units : ppb
Dilution: BH245[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

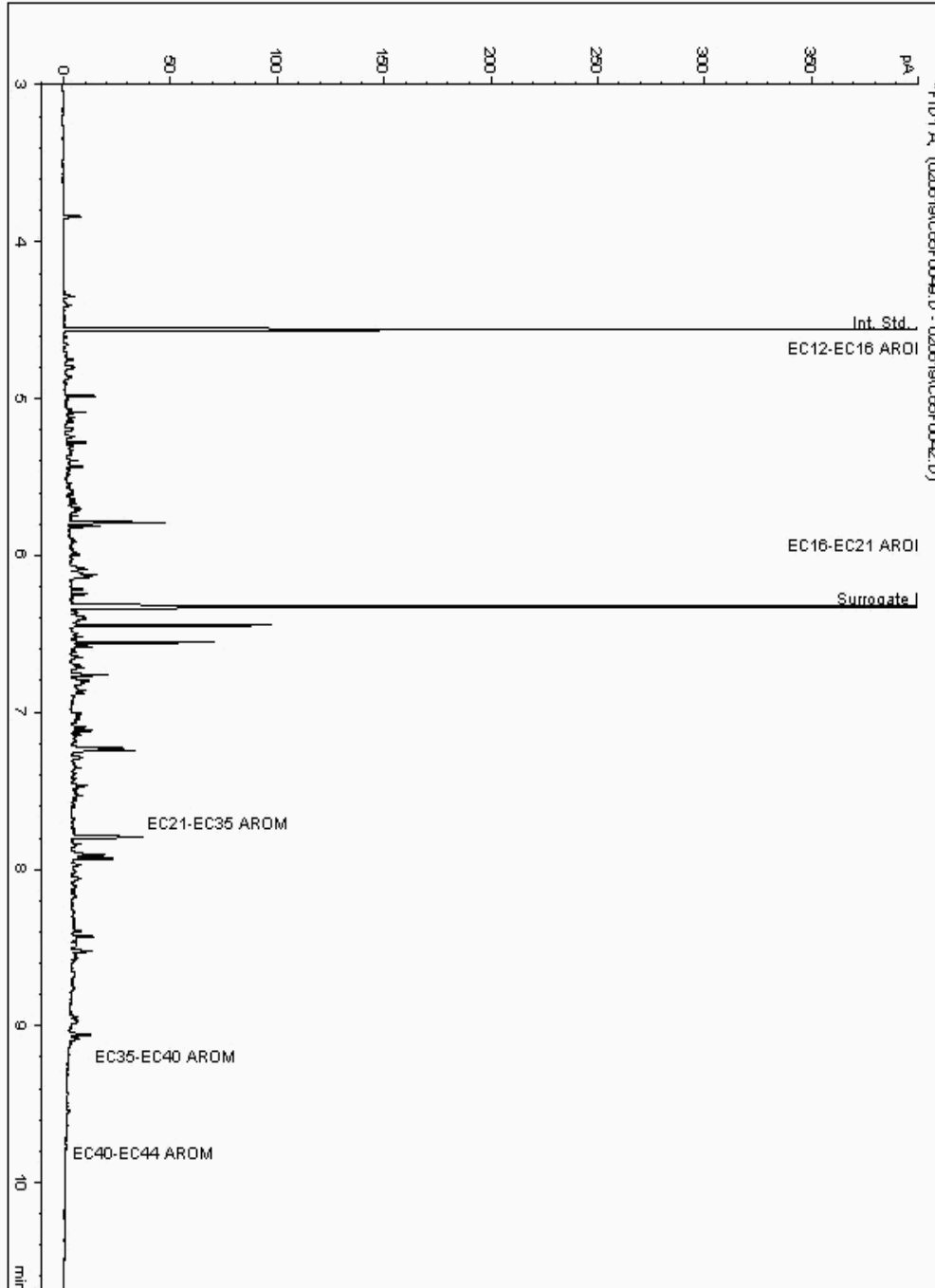
Analysis: EPH CWG (Aromatic) GC (S)
19261076

Sample No :
Sample ID : BH246

19,261,076 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090692-
Date Acquired : 06/02/2019 22:22:15 PM
Units : ppb
Dilution: BH246[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

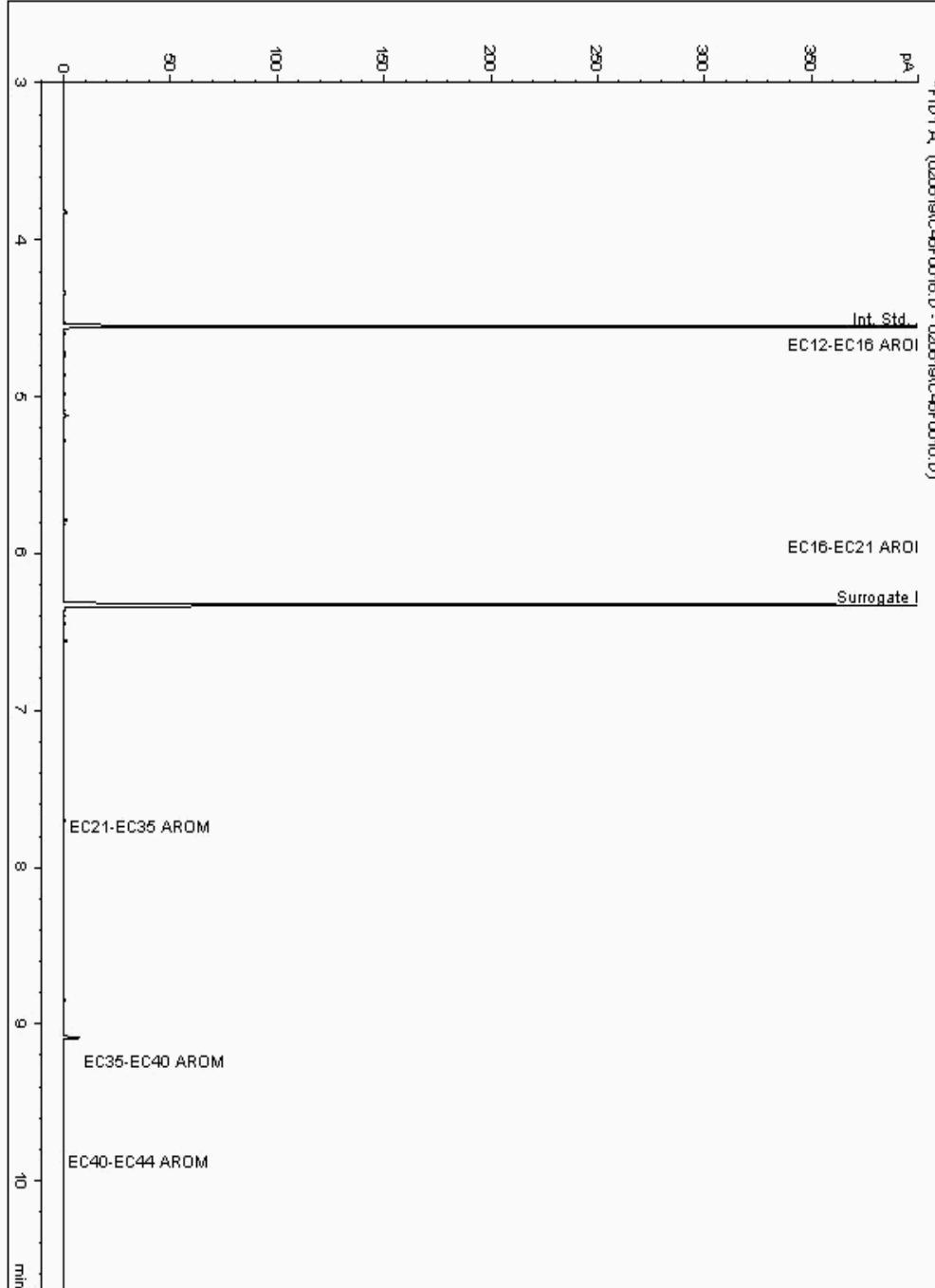
Analysis: EPH CWG (Aromatic) GC (S)
19261173

Sample No :
Sample ID : BH246

19,261,173 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091049-
Date Acquired : 06/02/2019 17:30:44 PM
Units : ppb
Dilution: BH246[10.00 - 11.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

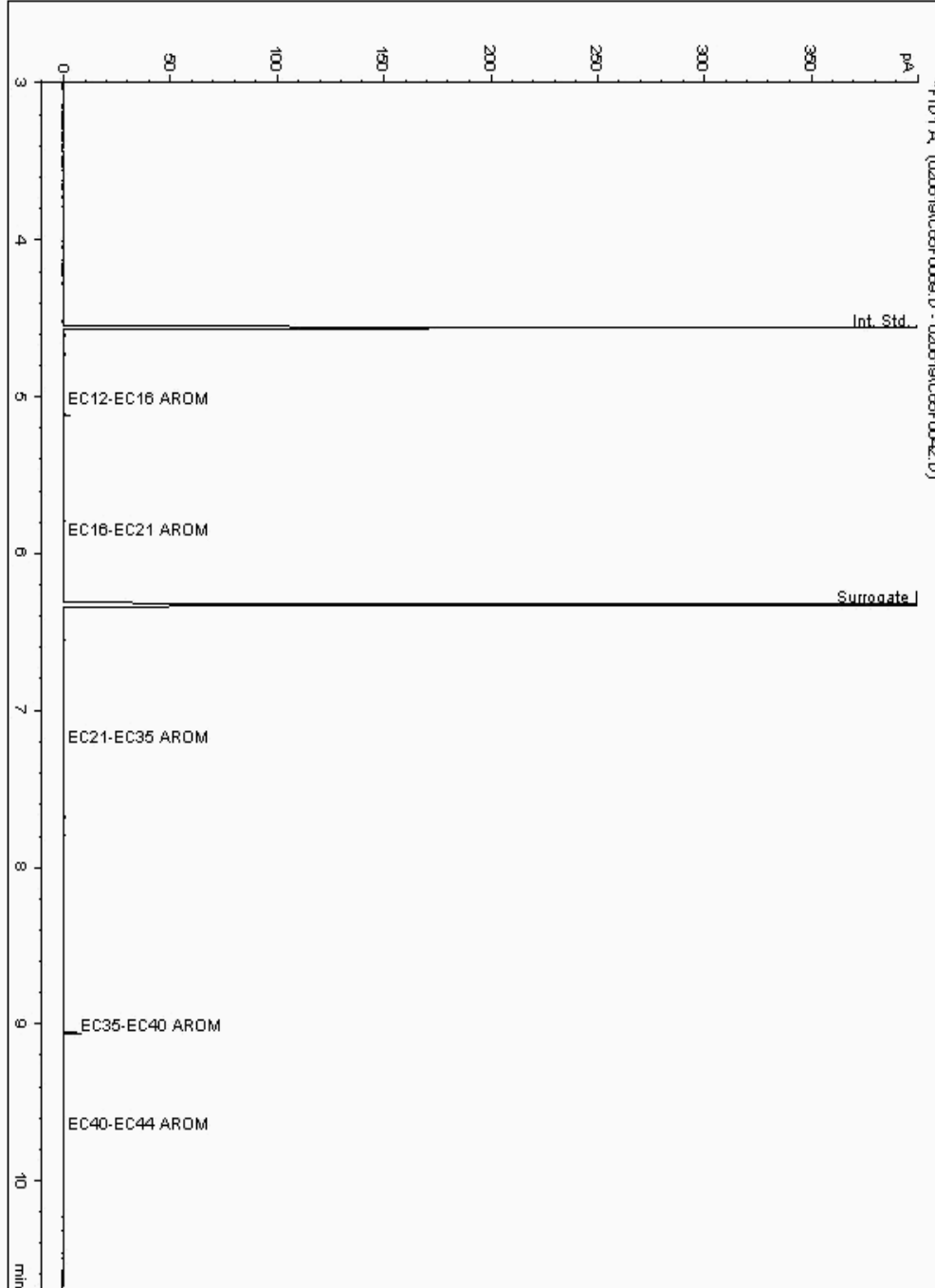
Analysis: EPH CWG (Aromatic) GC (S)
19261241

Sample No :
Sample ID : BH244

19,261,241 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092278-
Date Acquired : 07/02/2019 04:11:48 PM
Units : ppb
Dilution: BH244[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

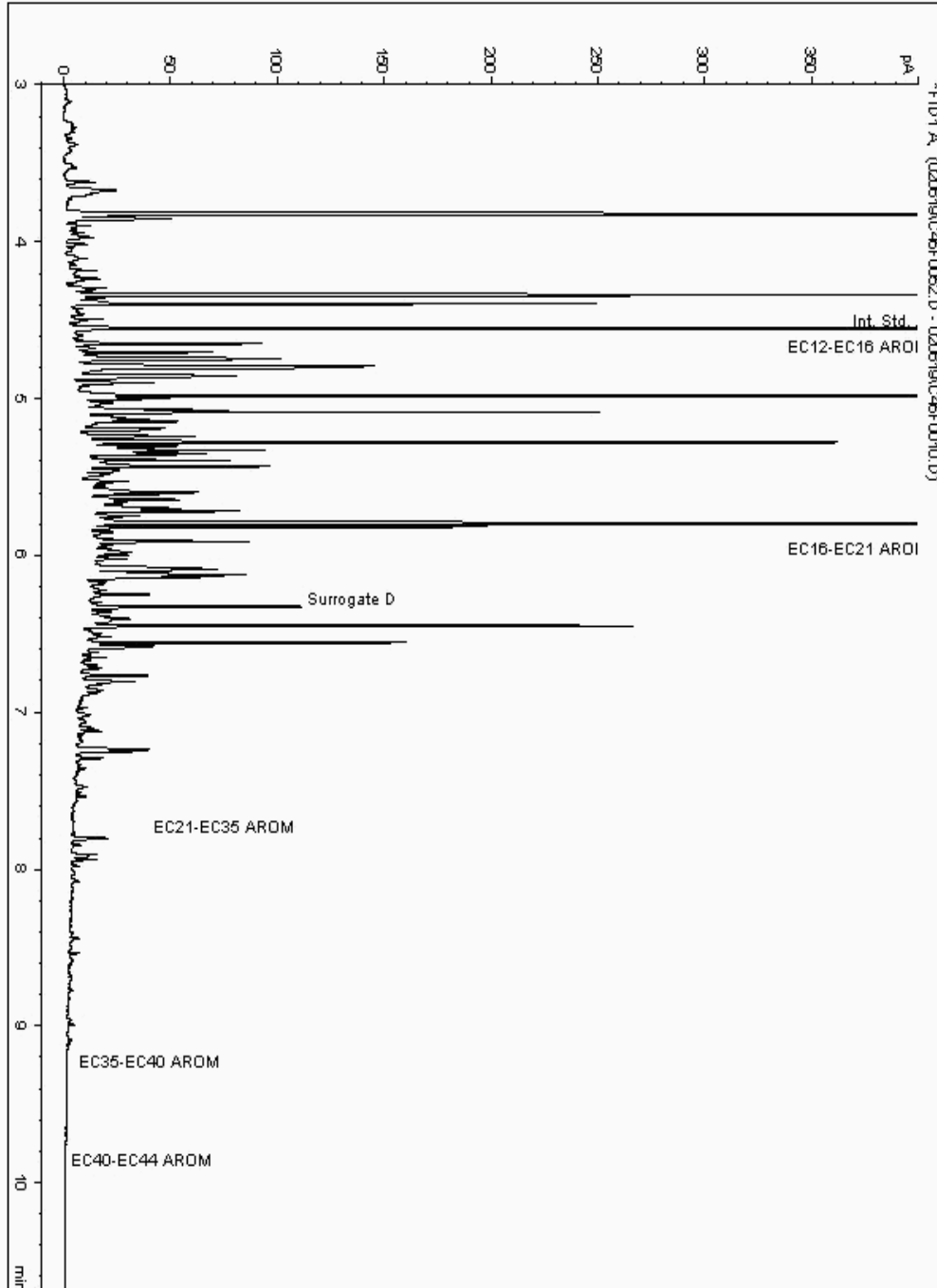
Analysis: EPH CWG (Aromatic) GC (S)
19261467

Sample No :
Sample ID : BH245

19,261,467Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092865-
Date Acquired : 07/02/2019 12:38:04 PM
Units : ppb
Dilution: BH245[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

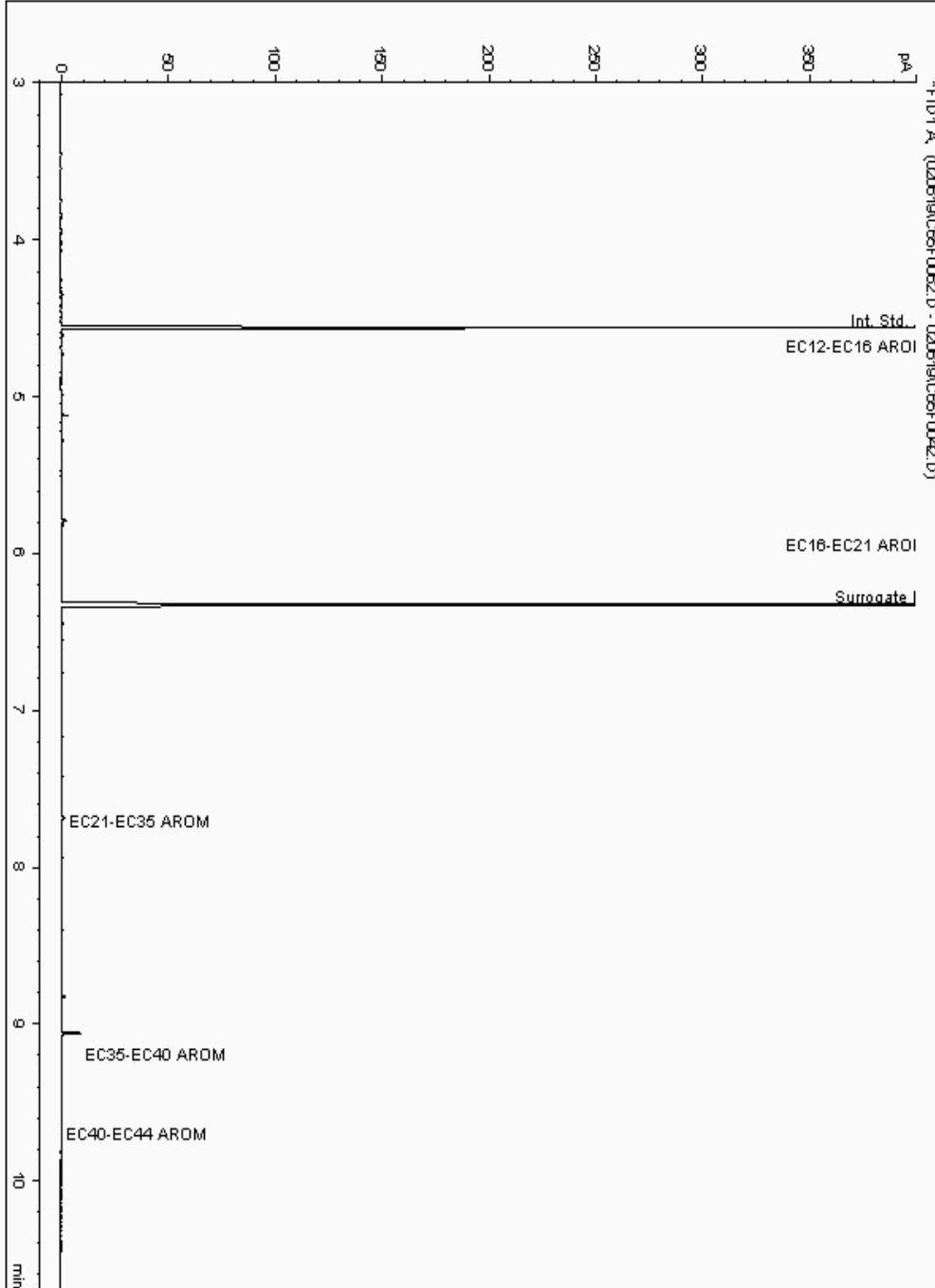
Analysis: EPH CWG (Aromatic) GC (S)
19261519

Sample No :
Sample ID : BH244

19,261,519 Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092468-
Date Acquired : 07/02/2019 02:05:39 PM
Units : ppb
Dilution: BH244[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

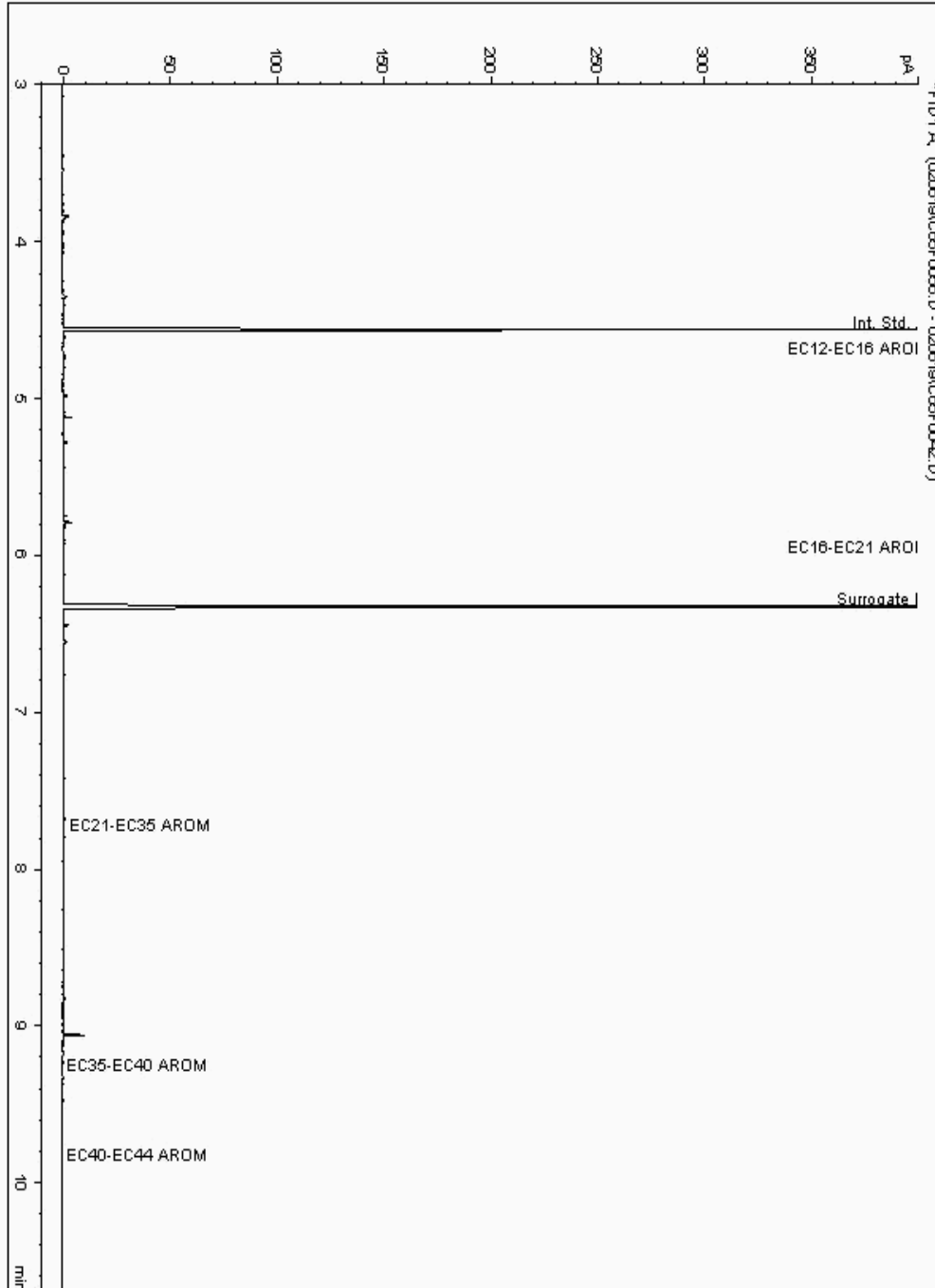
Analysis: EPH CWG (Aromatic) GC (S)
19261609

Sample No :
Sample ID : BH245

19,261,609Depth :9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18093269-
Date Acquired : 07/02/2019 00:20:15 PM
Units : ppb
Dilution: BH245[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

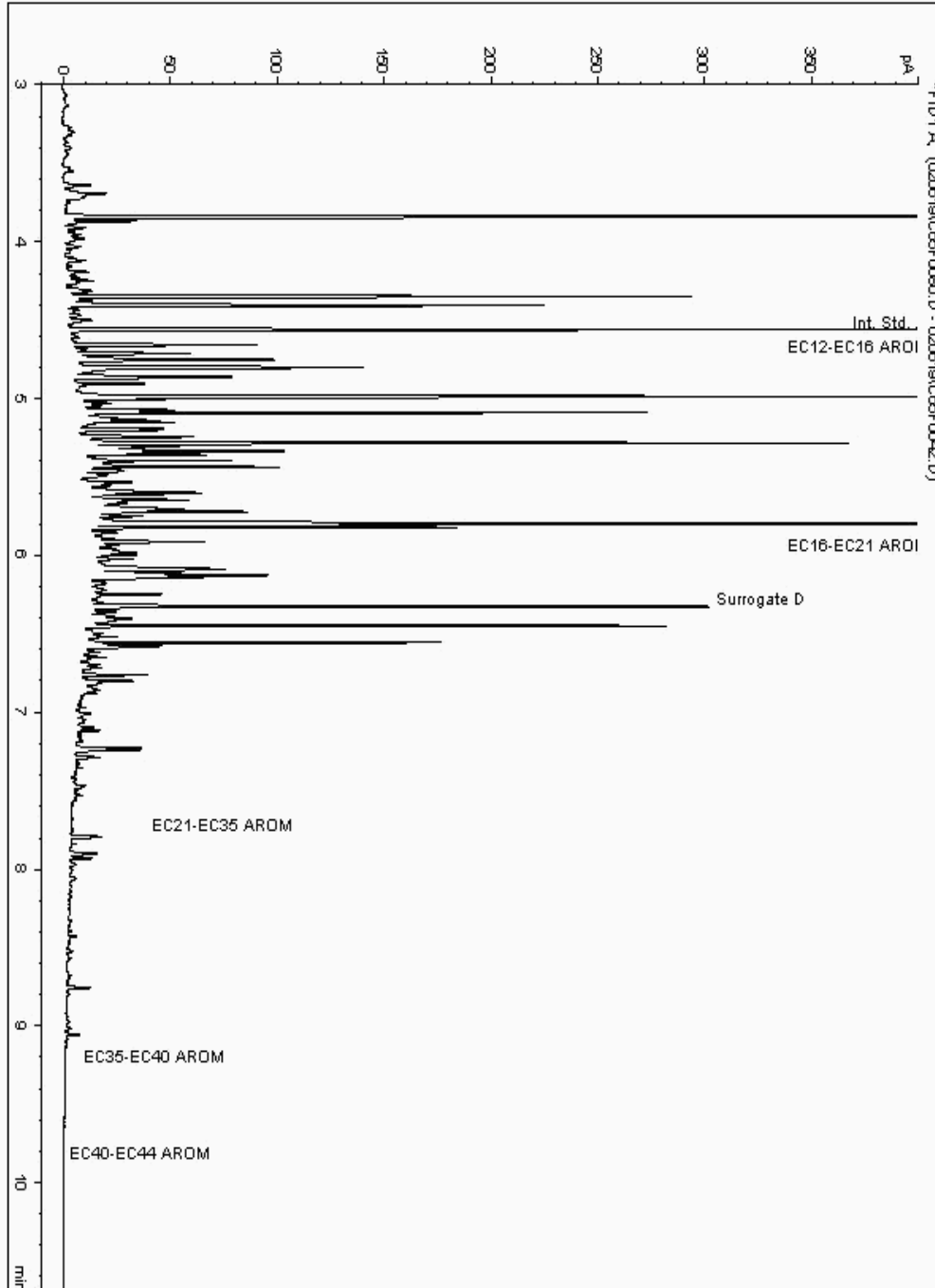
Analysis: EPH CWG (Aromatic) GC (S)
19261866

Sample No :
Sample ID : BH245

19,261,866Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18093084-
Date Acquired : 07/02/2019 15:43:28 PM
Units : ppb
Dilution: BH245[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

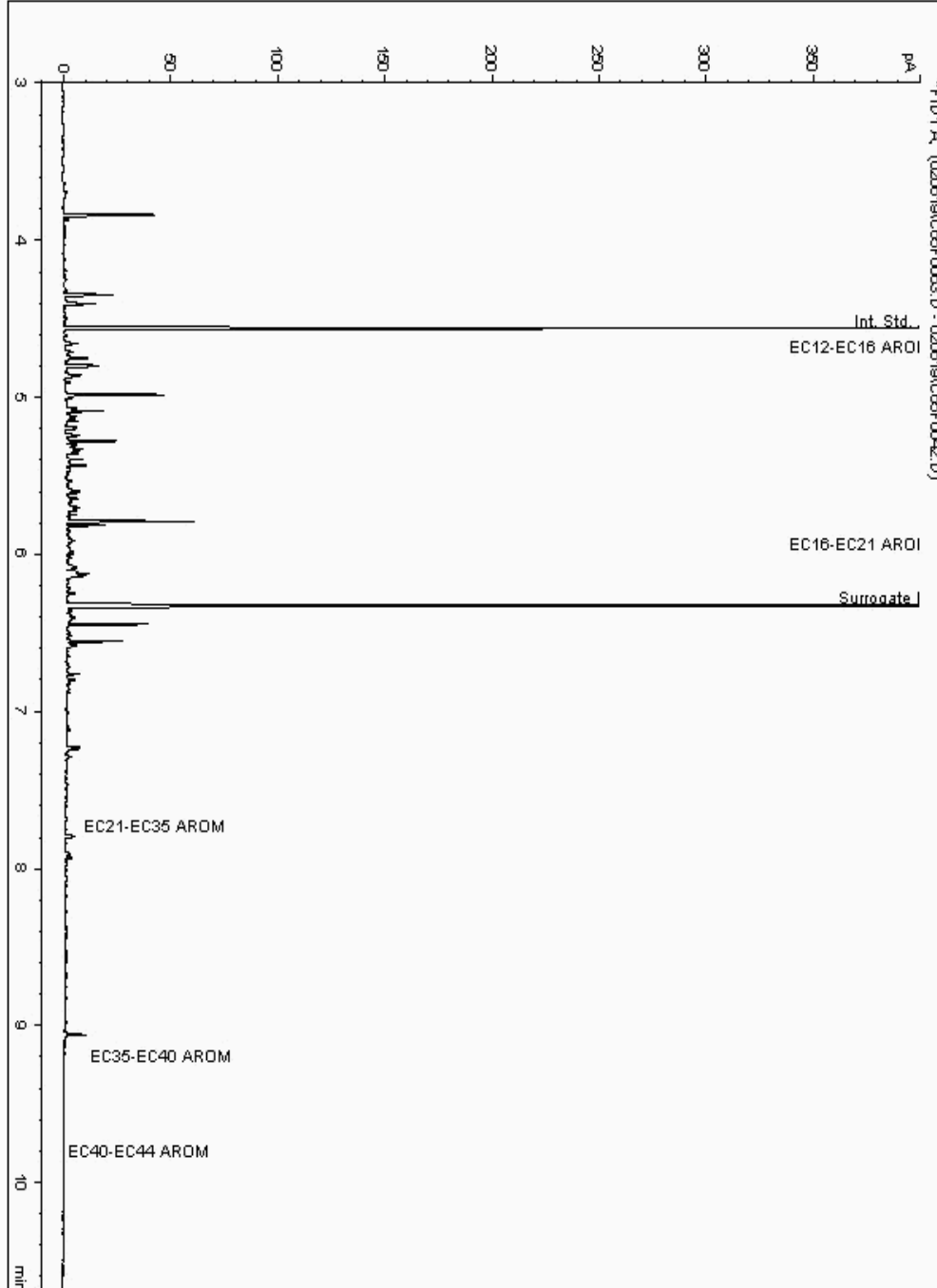
Analysis: EPH CWG (Aromatic) GC (S)
19261936

Sample No :
Sample ID : BH246

19,261,936Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090999-
Date Acquired : 07/02/2019 02:25:52 PM
Units : ppb
Dilution: BH246[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

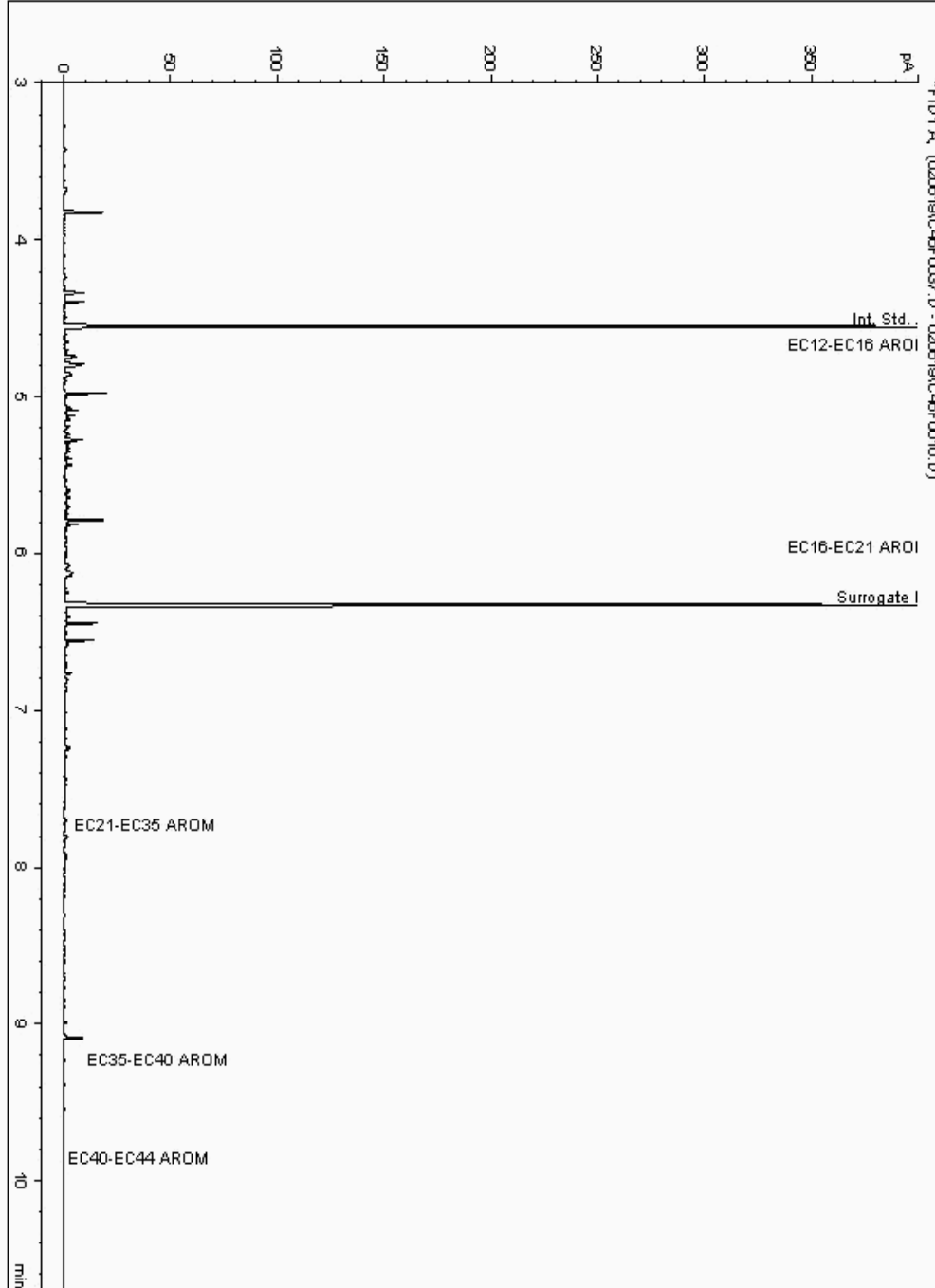
Analysis: EPH CWG (Aromatic) GC (S)
19262054

Sample No :
Sample ID : BH246

19,262,054 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090914-
Date Acquired : 06/02/2019 23:13:33 PM
Units : ppb
Dilution: BH246[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

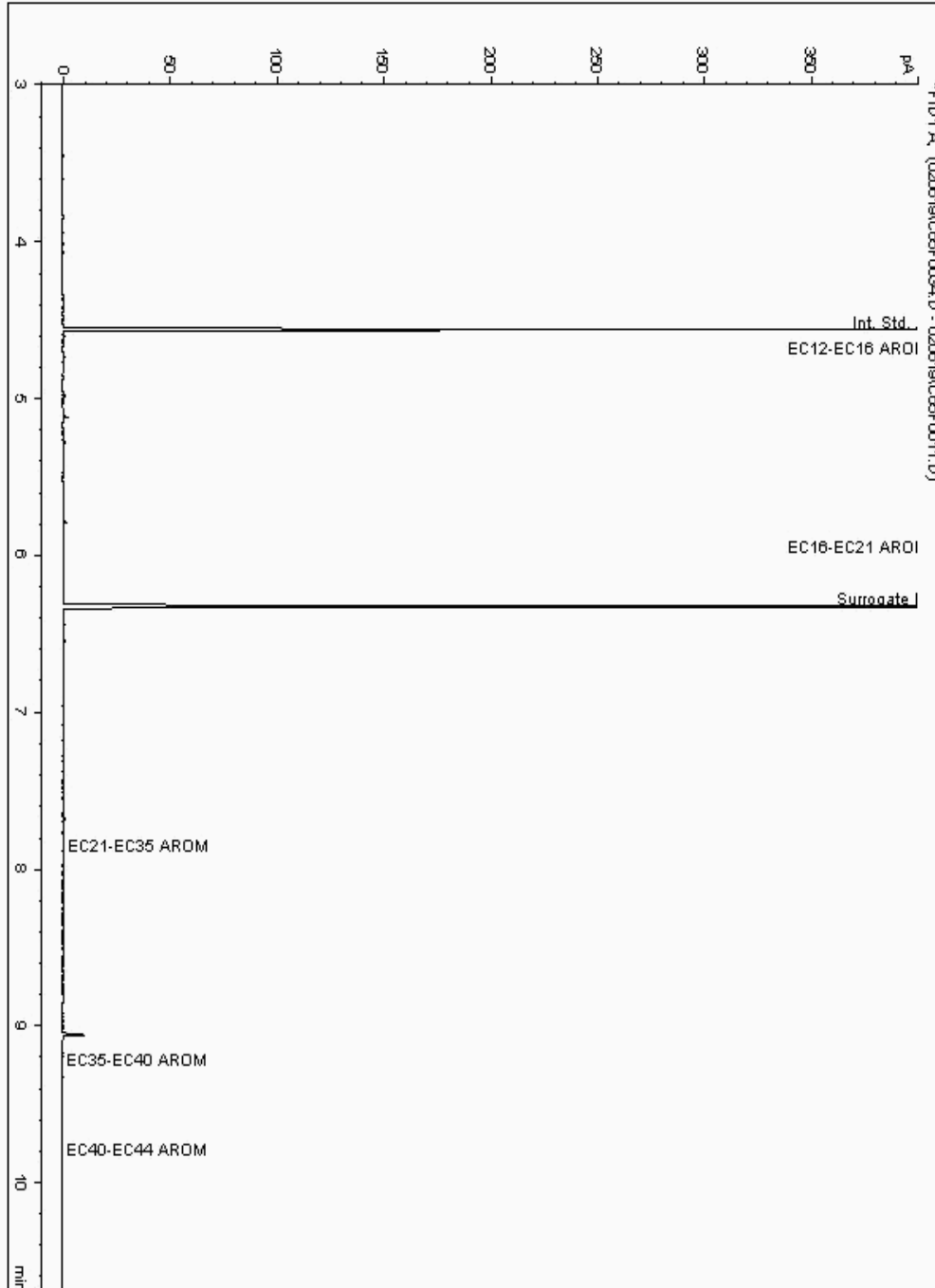
Analysis: EPH CWG (Aromatic) GC (S)
19262116

Sample No :
Sample ID : BH244

19,262,116Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092189-
Date Acquired : 06/02/2019 17:45:15 PM
Units : ppb
Dilution: BH244[10.00 - 11.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

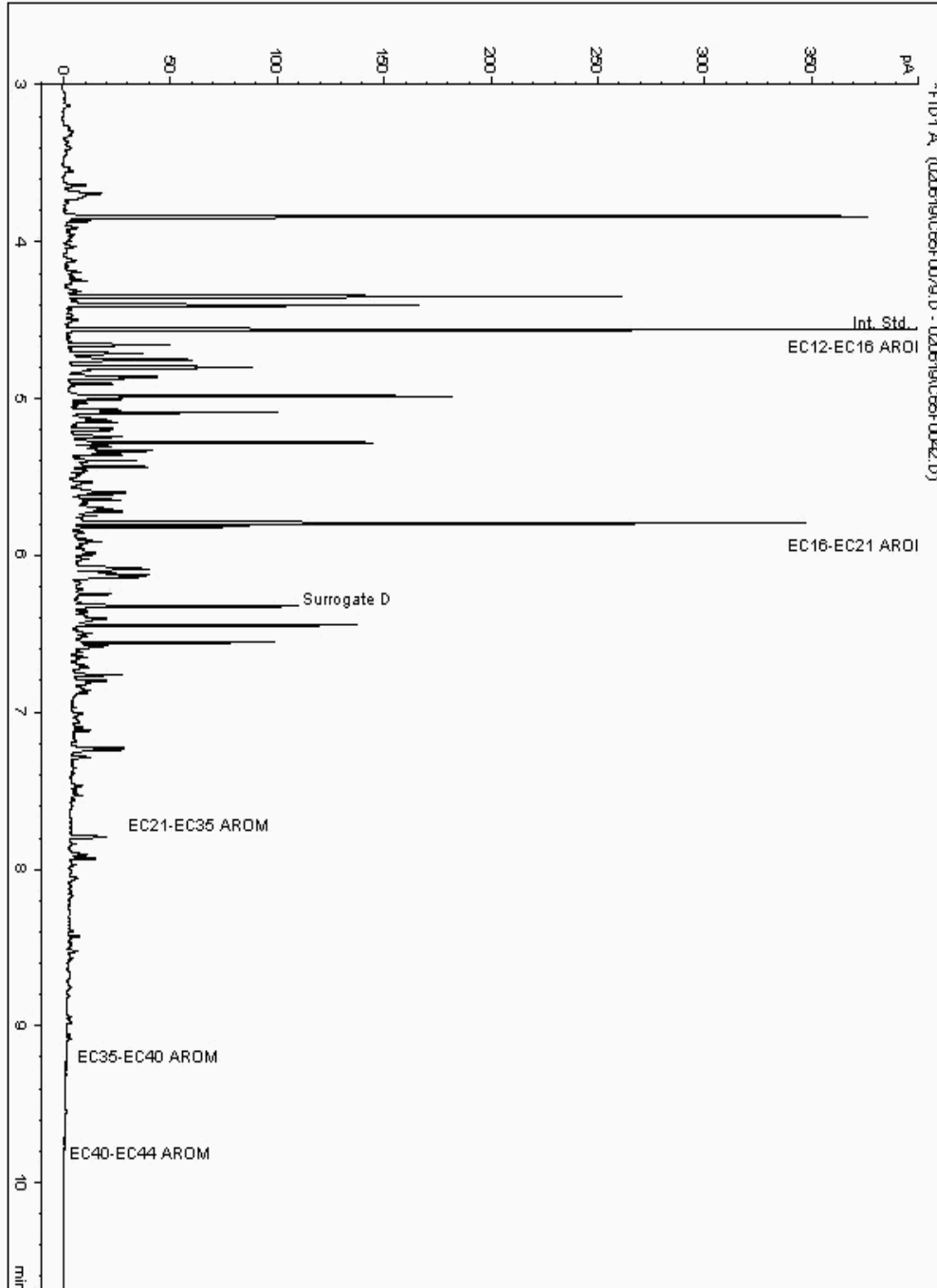
Analysis: EPH CWG (Aromatic) GC (S)
19262188

Sample No :
Sample ID : BH246

19,262,188Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090839-
Date Acquired : 07/02/2019 15:23:10 PM
Units : ppb
Dilution: BH246[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

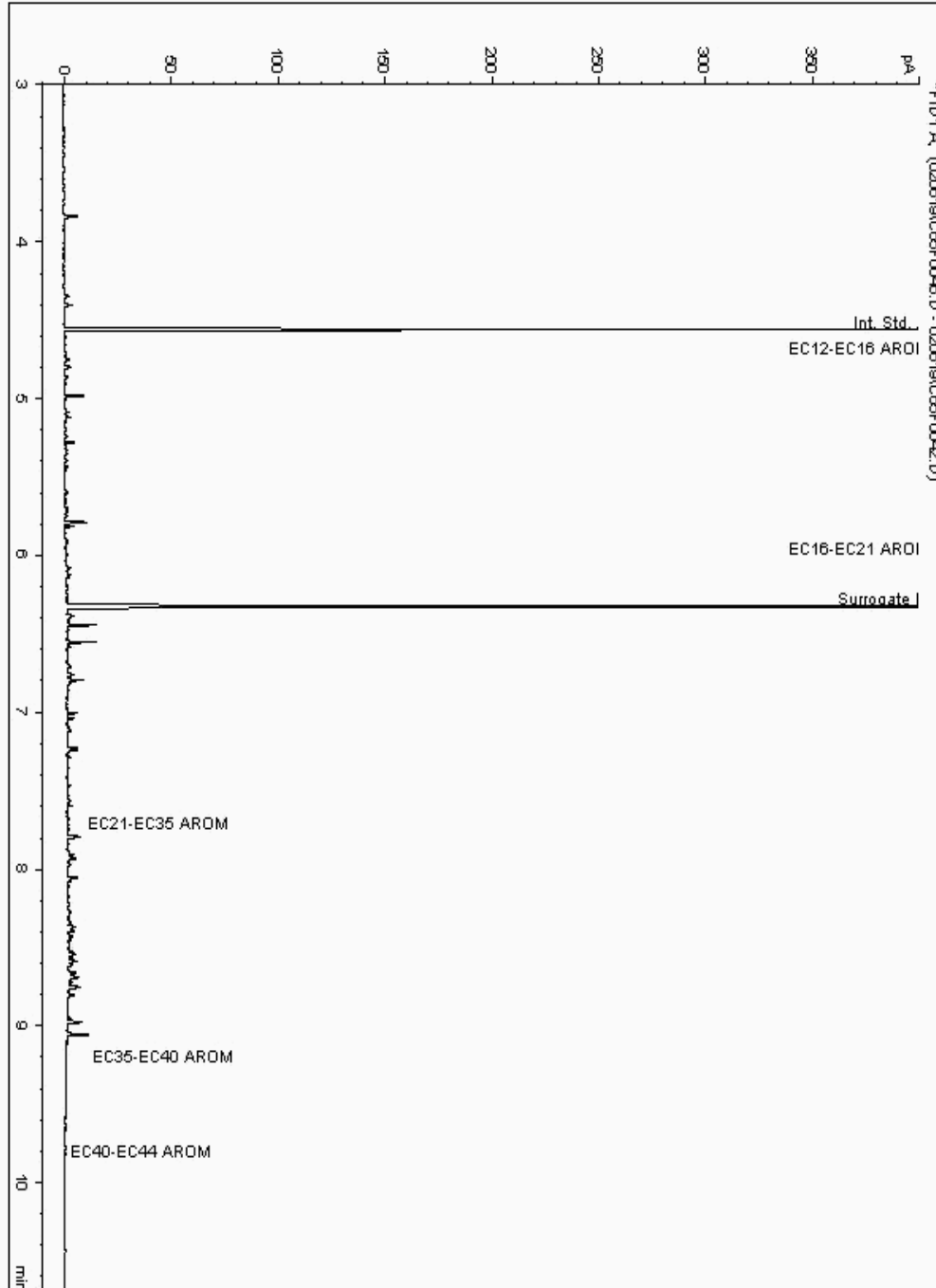
Analysis: EPH CWG (Aromatic) GC (S)
19262257

Sample No :
Sample ID : BH246

19,262,257Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090741-
Date Acquired : 06/02/2019 21:29:18 PM
Units : ppb
Dilution: BH246[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

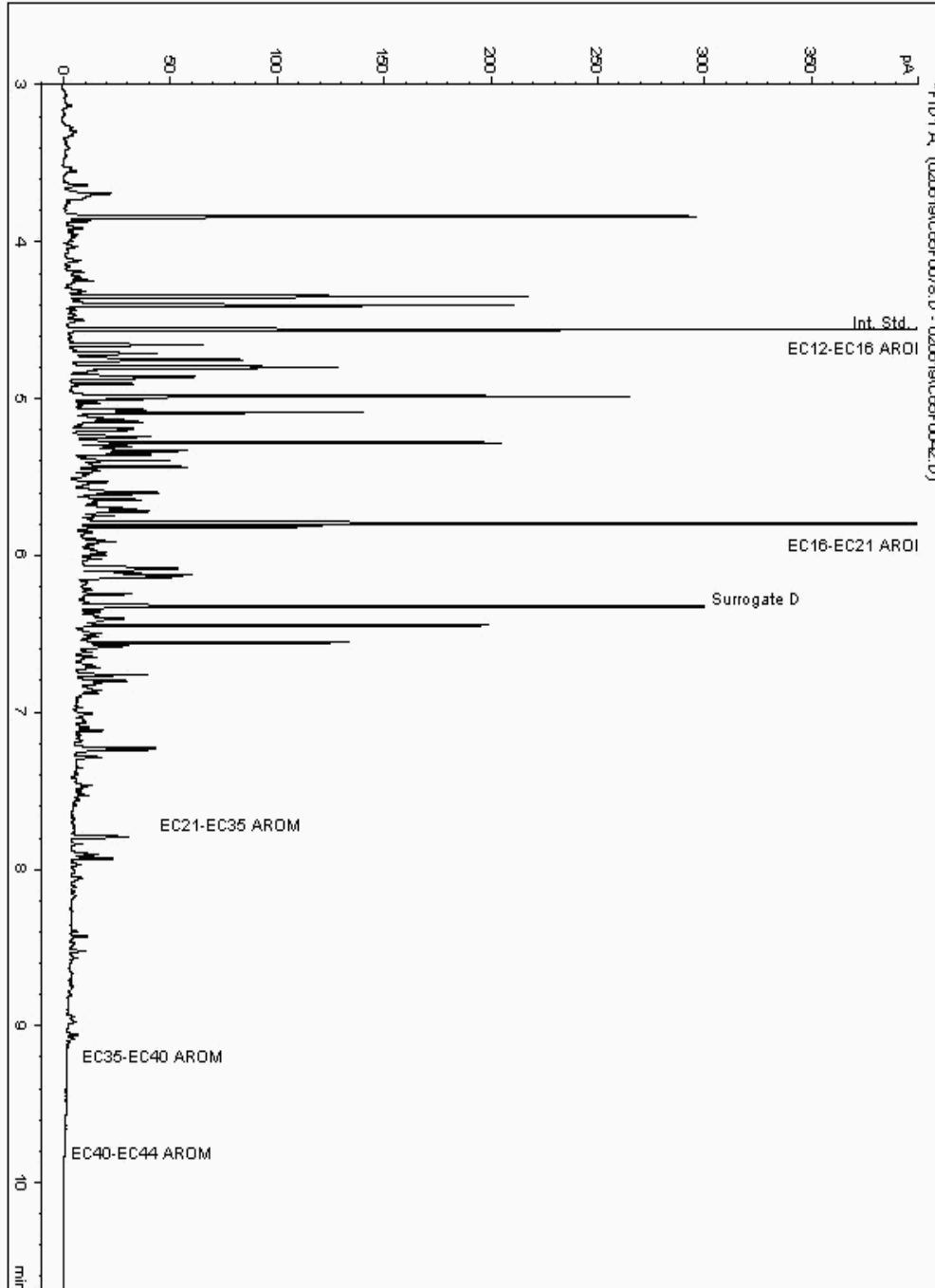
Analysis: EPH CWG (Aromatic) GC (S)
19262360

Sample No :
Sample ID : BH246

19,262,360 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090788-
Date Acquired : 07/02/2019 15:02:50 PM
Units : ppb
Dilution: BH246[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

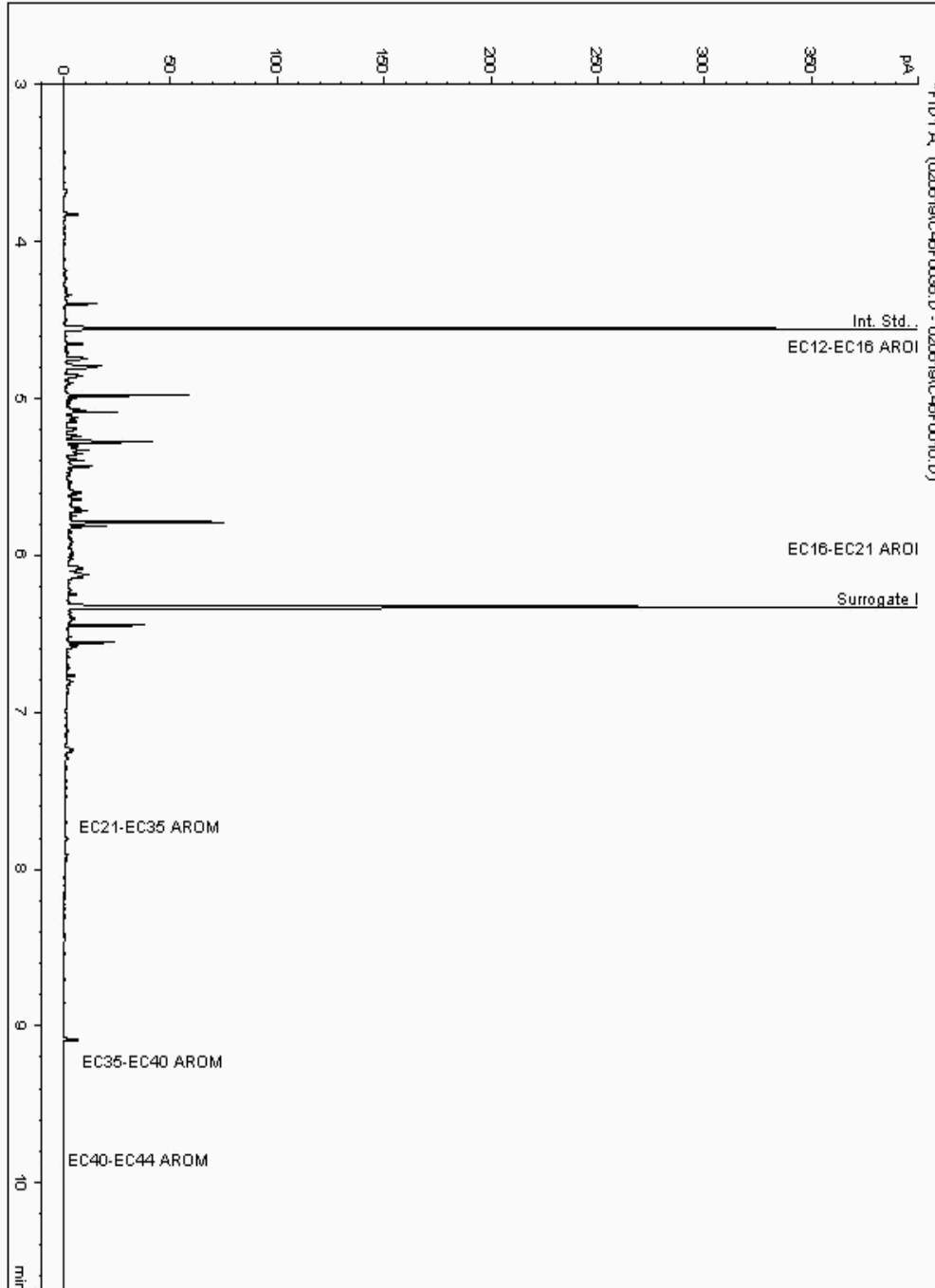
Analysis: EPH CWG (Aromatic) GC (S)
19262791

Sample No :
Sample ID : BH245

19,262,791 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18093189-
Date Acquired : 06/02/2019 22:53:17 PM
Units : ppb
Dilution: BH245[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

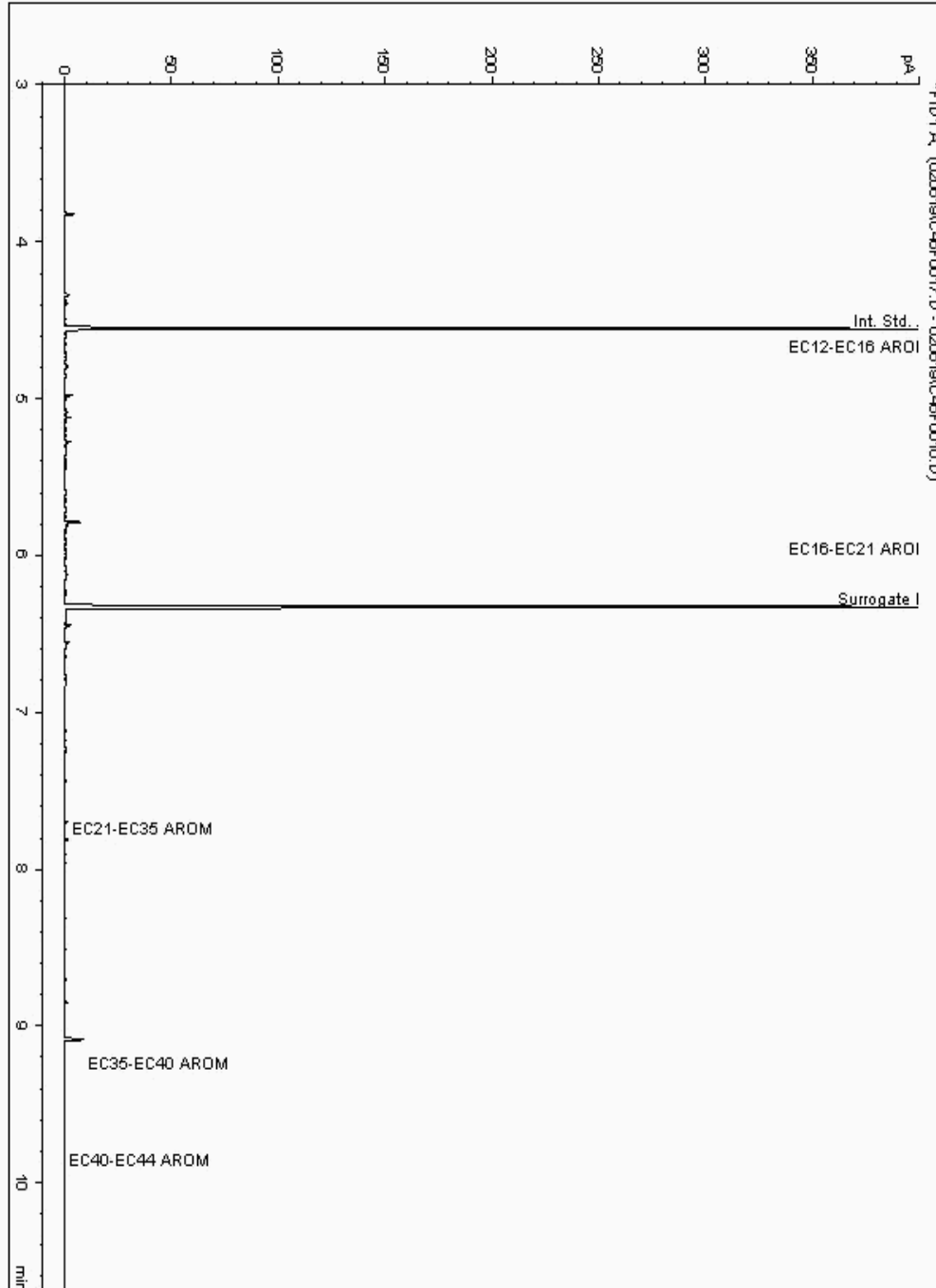
Analysis: EPH CWG (Aromatic) GC (S)
19262881

Sample No :
Sample ID : BH245

19,262,881 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18093335-
Date Acquired : 06/02/2019 17:50:59 PM
Units : ppb
Dilution: BH245[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

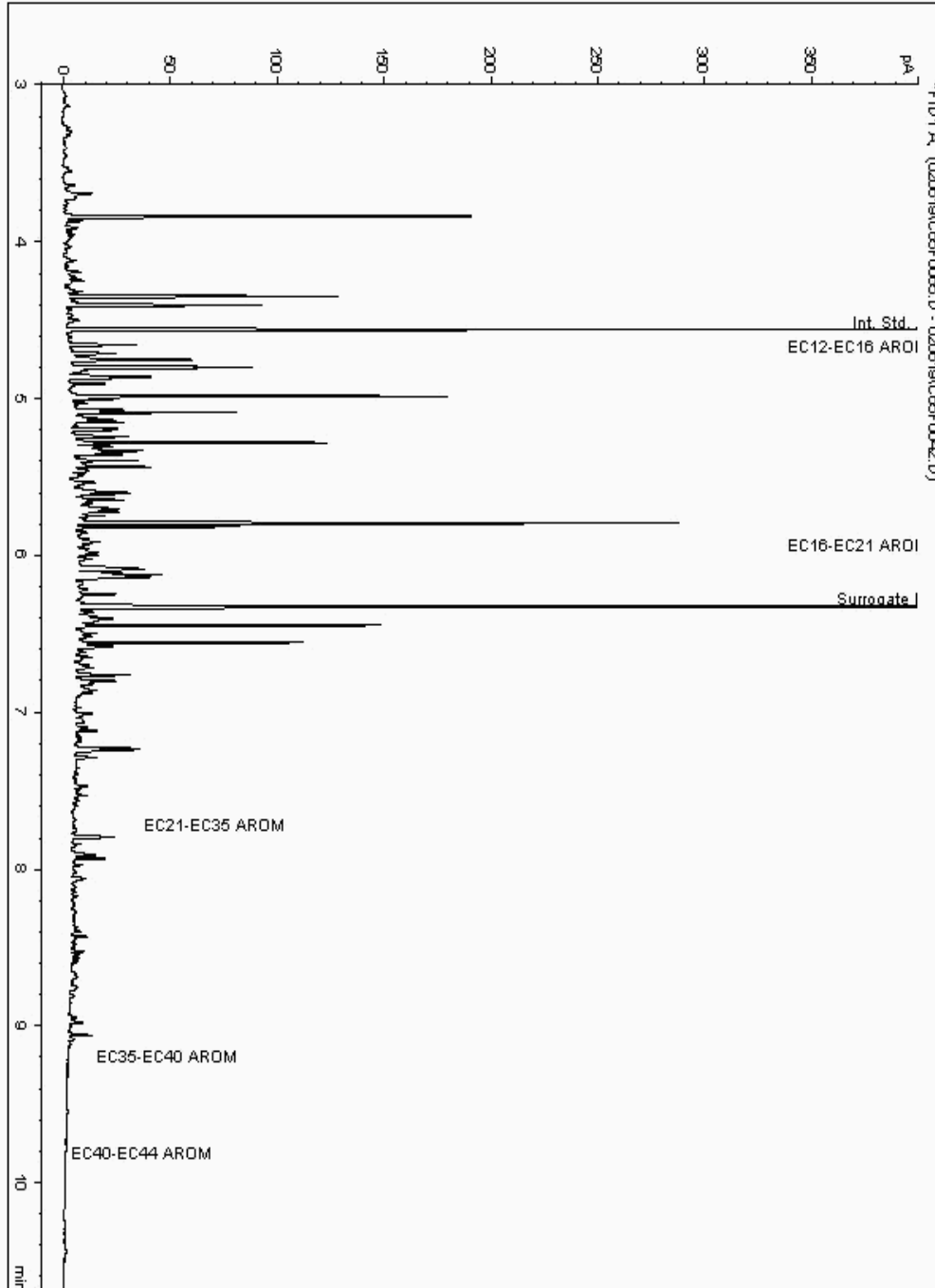
Analysis: EPH CWG (Aromatic) GC (S)
19262962

Sample No :
Sample ID : BH246

19,262,962Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18090582-
Date Acquired : 07/02/2019 03:06:34 PM
Units : ppb
Dilution: BH246[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

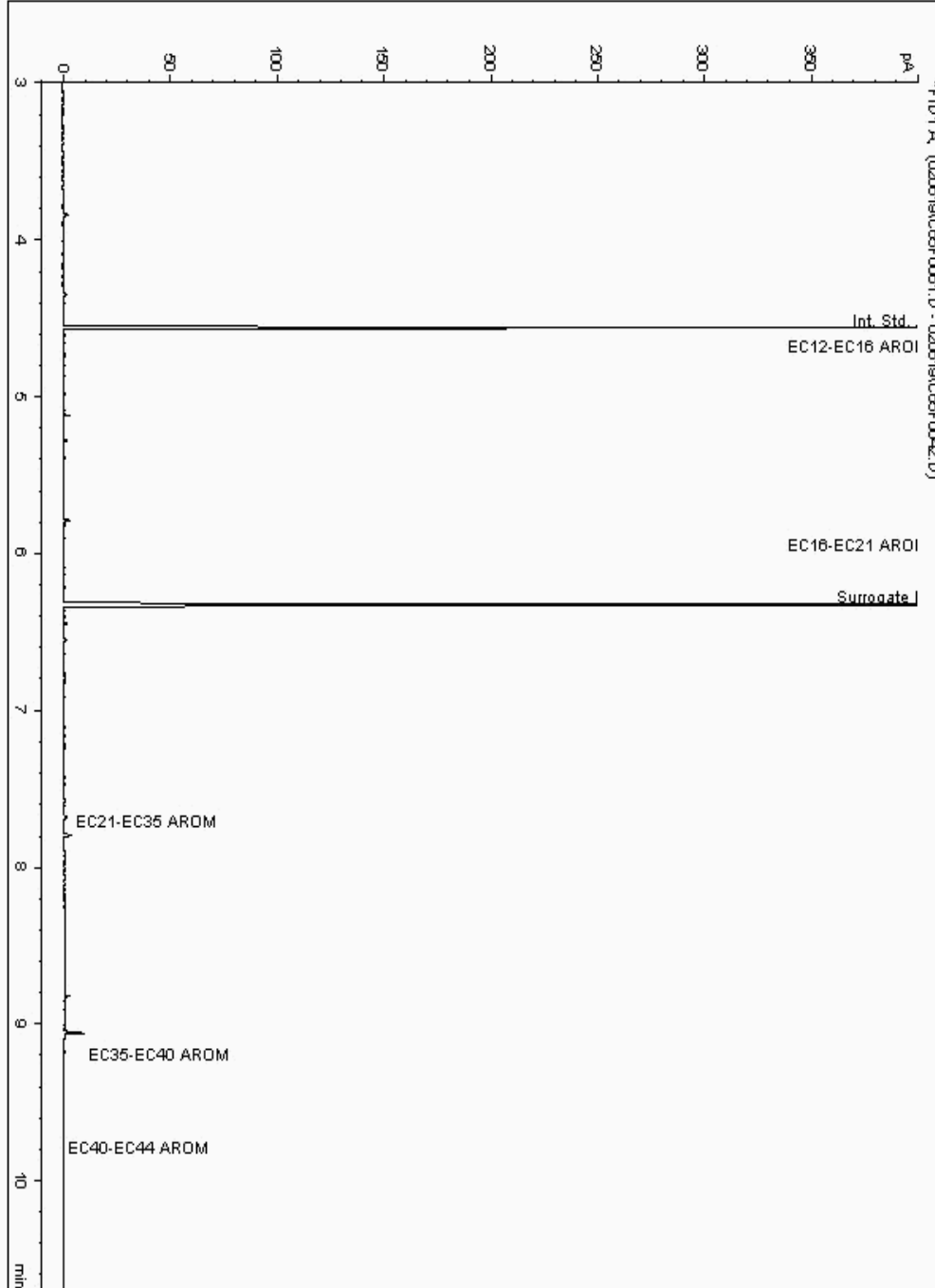
Analysis: EPH CWG (Aromatic) GC (S)
19263146

Sample No :
Sample ID : BH246

19,263,146Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091135-
Date Acquired : 07/02/2019 01:45:12 PM
Units : ppb
Dilution: BH246[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

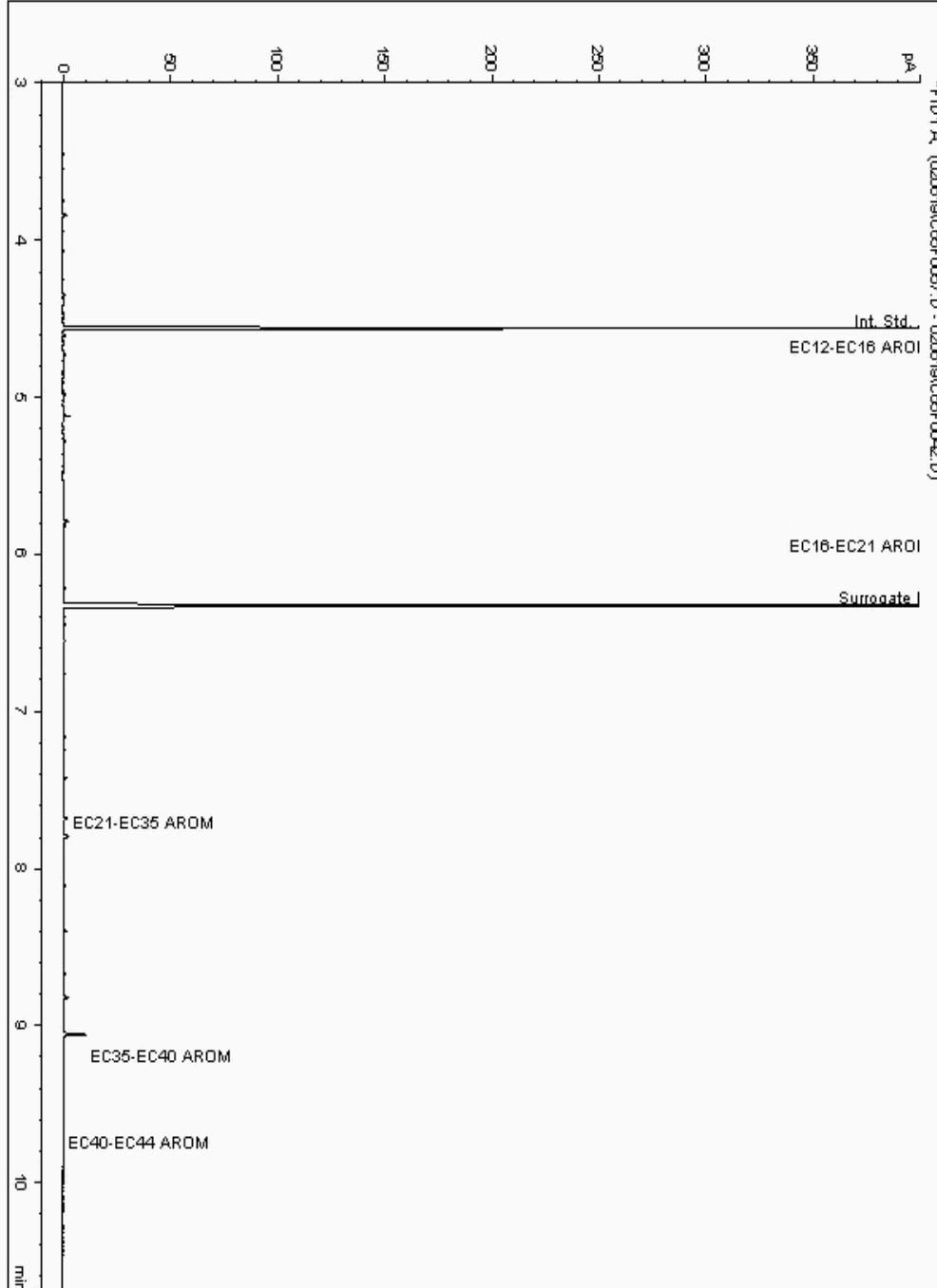
Analysis: EPH CWG (Aromatic) GC (S)
19263201

Sample No :
Sample ID : BH246

19,263,201Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091199-
Date Acquired : 07/02/2019 00:40:38 PM
Units : ppb
Dilution: BH246[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

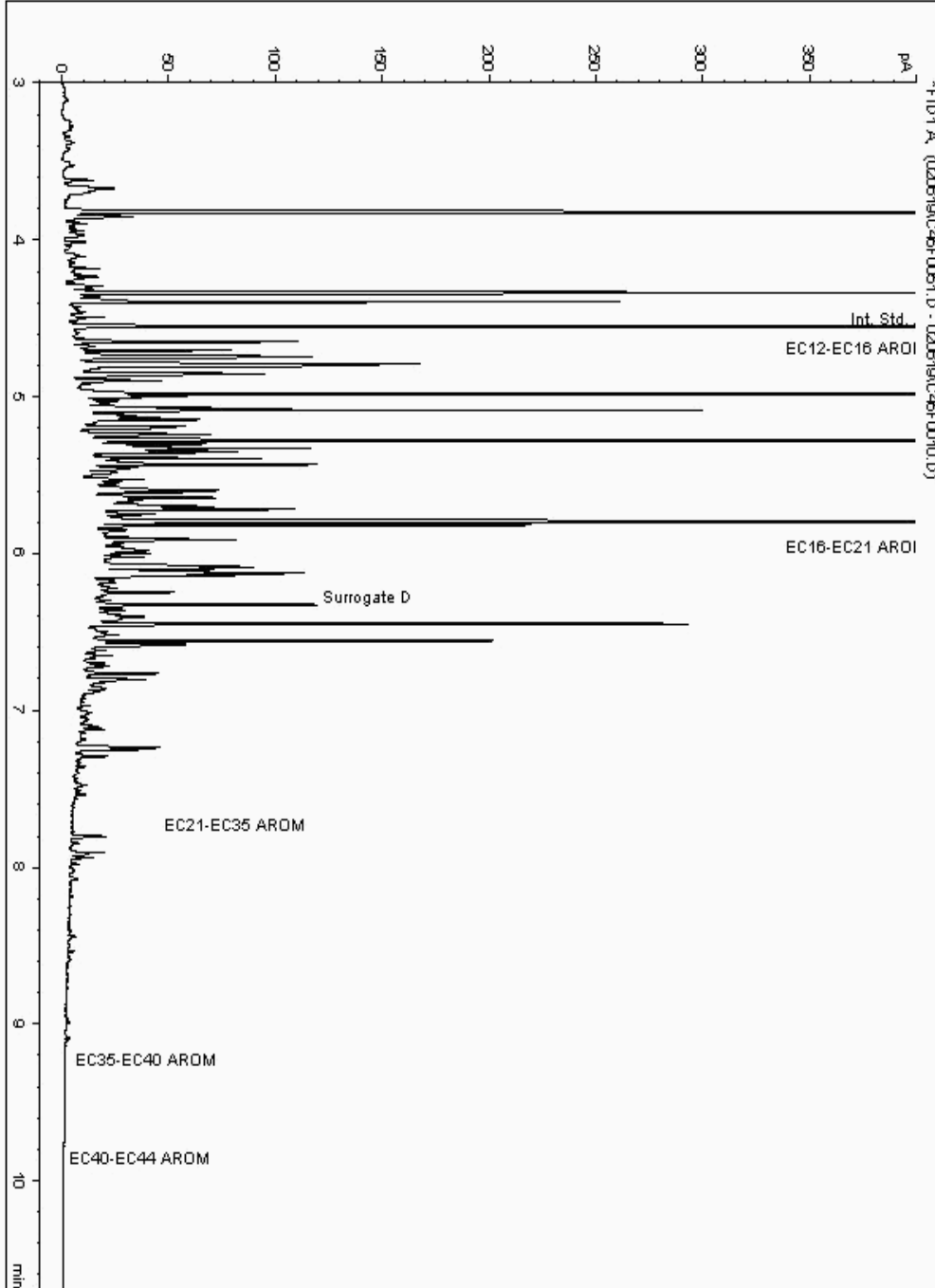
Analysis: EPH CWG (Aromatic) GC (S)
19263252

Sample No :
Sample ID : BH245

19,263,252Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092776-
Date Acquired : 07/02/2019 12:17:46 PM
Units : ppb
Dilution: BH245[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

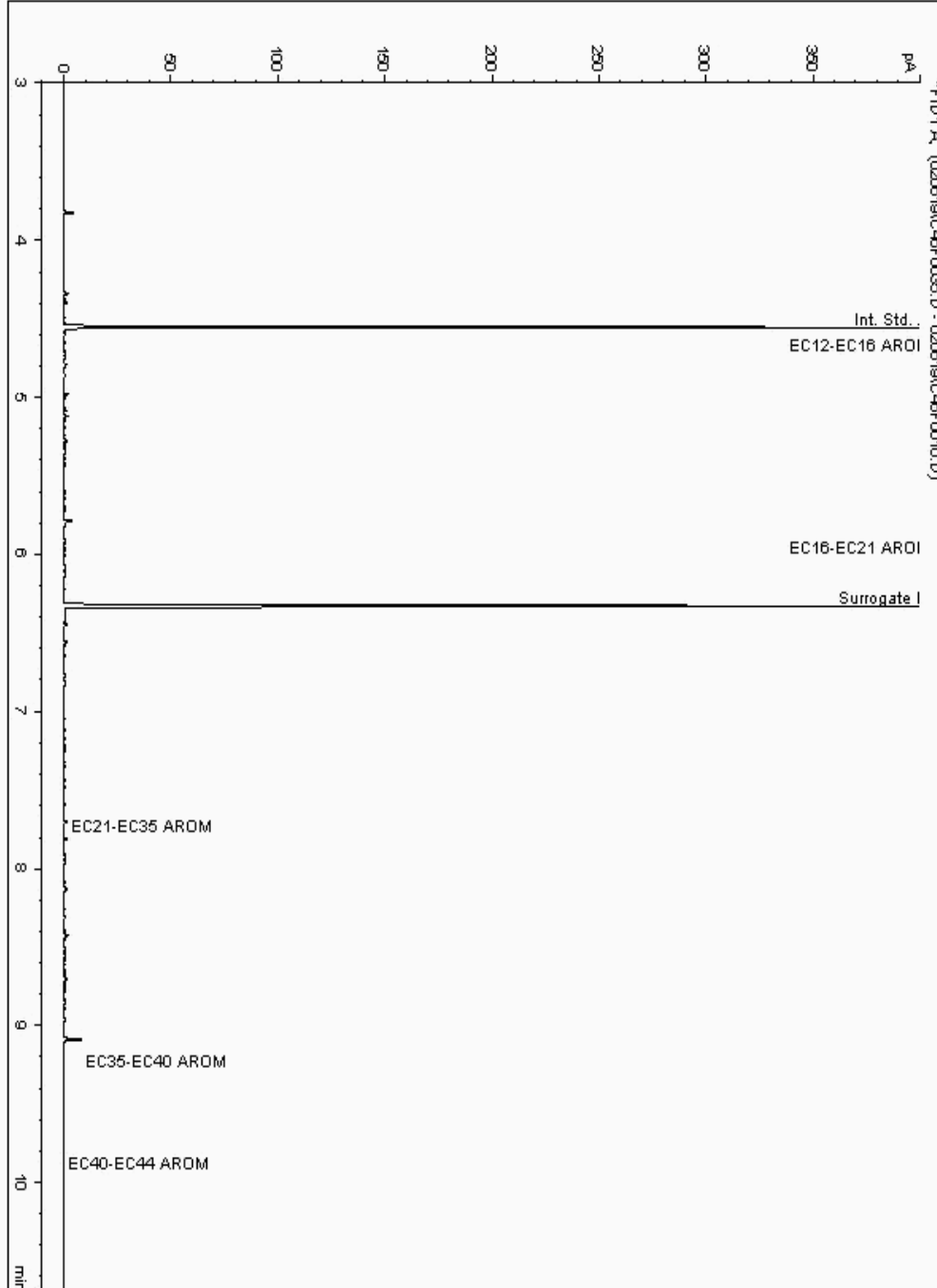
Analysis: EPH CWG (Aromatic) GC (S)
19263315

Sample No :
Sample ID : BH245

19,263,315 Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18093366-
Date Acquired : 06/02/2019 22:33:01 PM
Units : ppb
Dilution: BH245[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

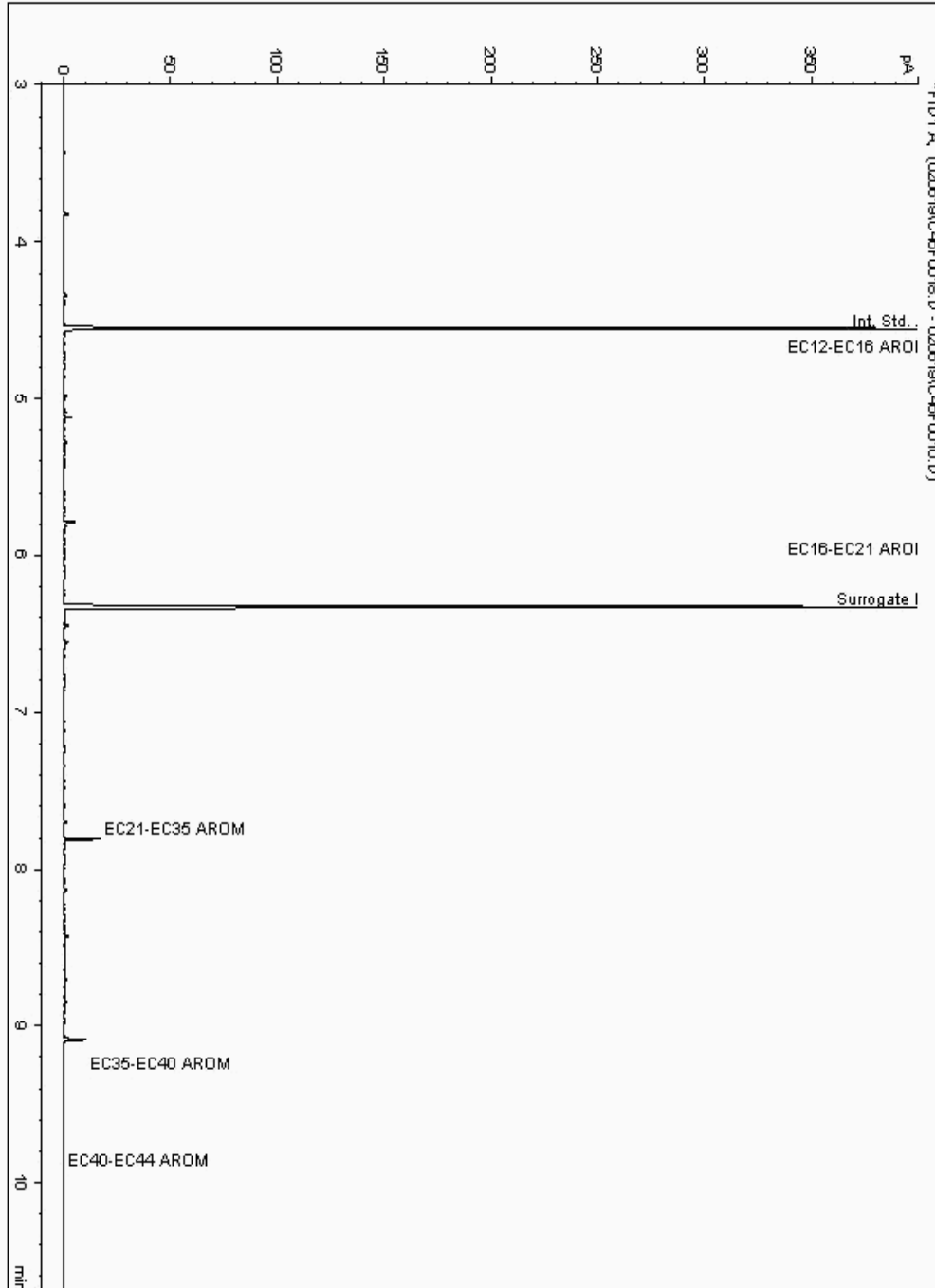
Analysis: EPH CWG (Aromatic) GC (S)
19263366

Sample No :
Sample ID : BH246

19,263,366Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091082-
Date Acquired : 06/02/2019 18:11:20 PM
Units : ppb
Dilution: BH246[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

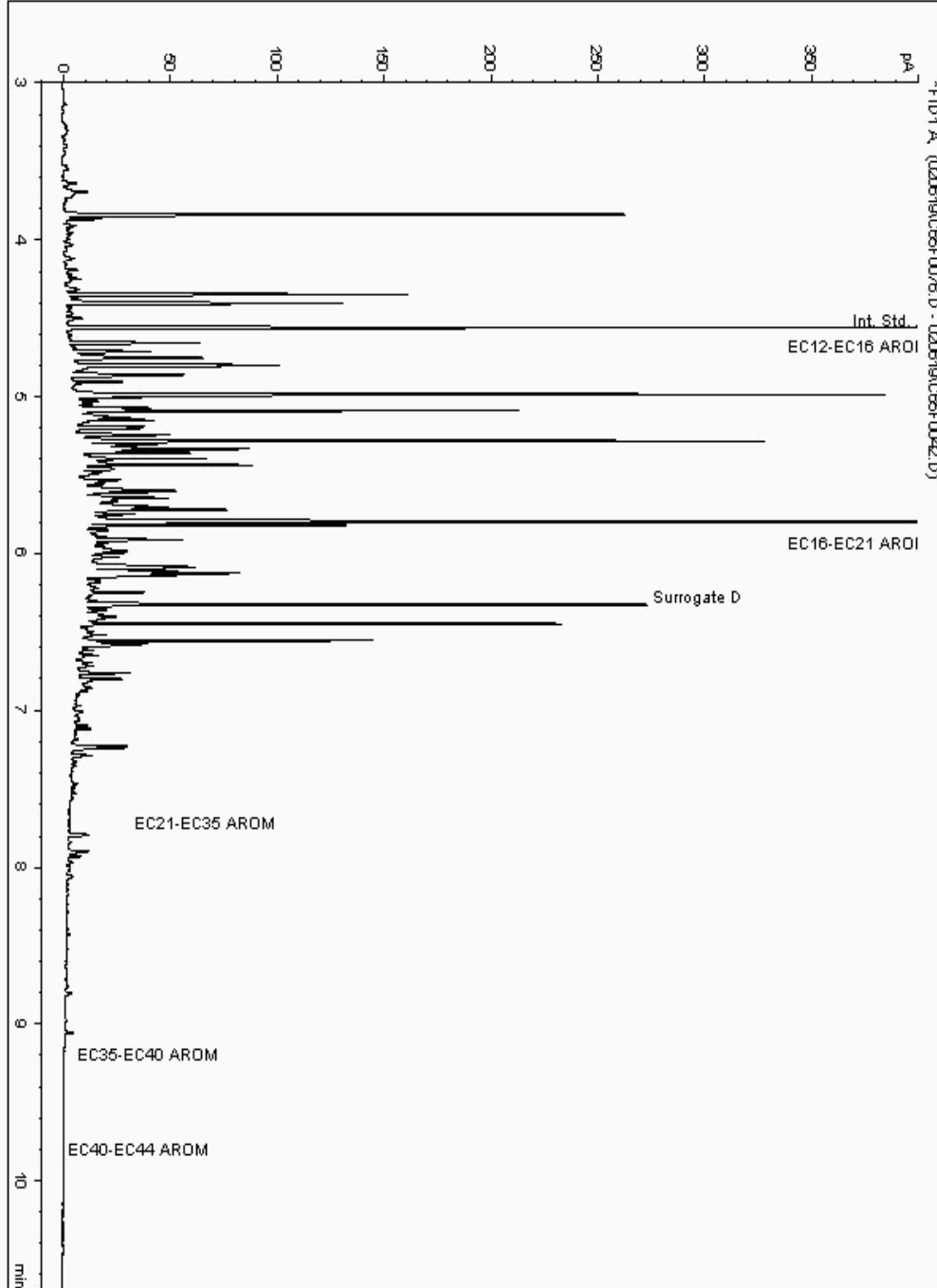
Analysis: EPH CWG (Aromatic) GC (S)
19263433

Sample No :
Sample ID : BH244

19,263,433Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091888-
Date Acquired : 07/02/2019 13:56:02 PM
Units : ppb
Dilution: BH244[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

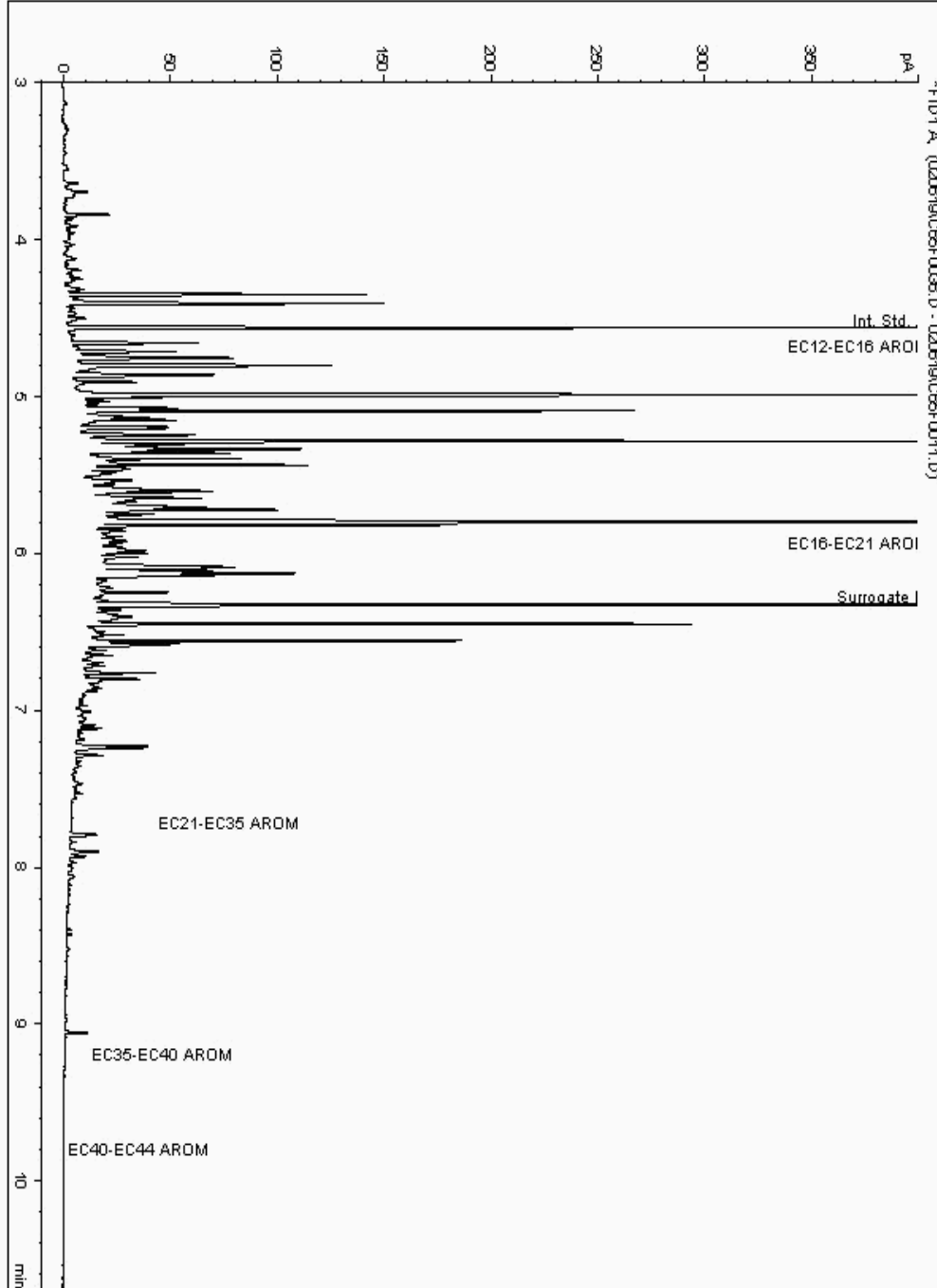
Analysis: EPH CWG (Aromatic) GC (S)
19263441

Sample No :
Sample ID : BH244

19,263,441 Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091943-
Date Acquired : 06/02/2019 18:25:49 PM
Units : ppb
Dilution: BH244[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

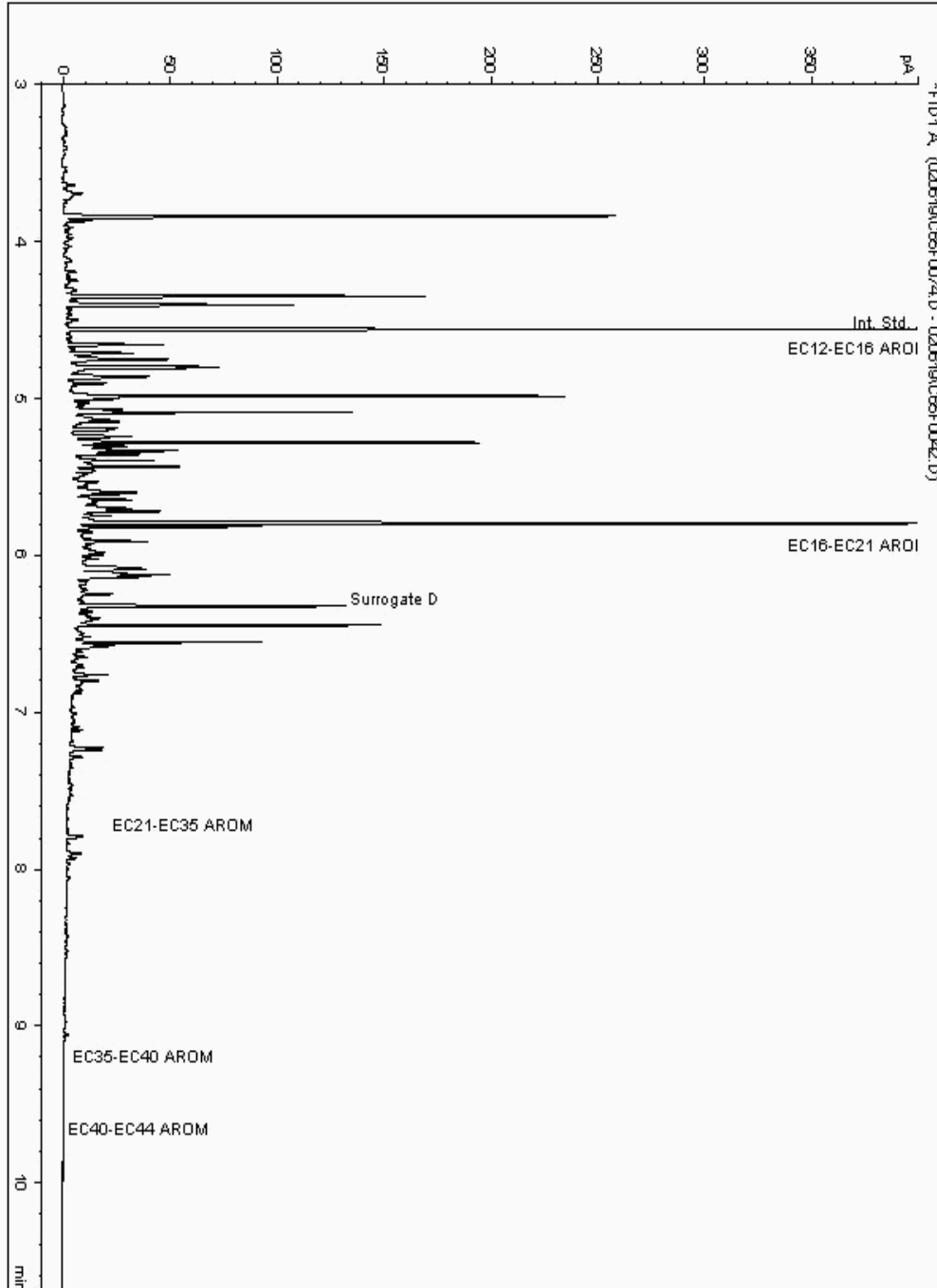
Analysis: EPH CWG (Aromatic) GC (S)
19266194

Sample No :
Sample ID : BH245

19,266,194Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092987-
Date Acquired : 07/02/2019 13:15:28 PM
Units : ppb
Dilution: BH245[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

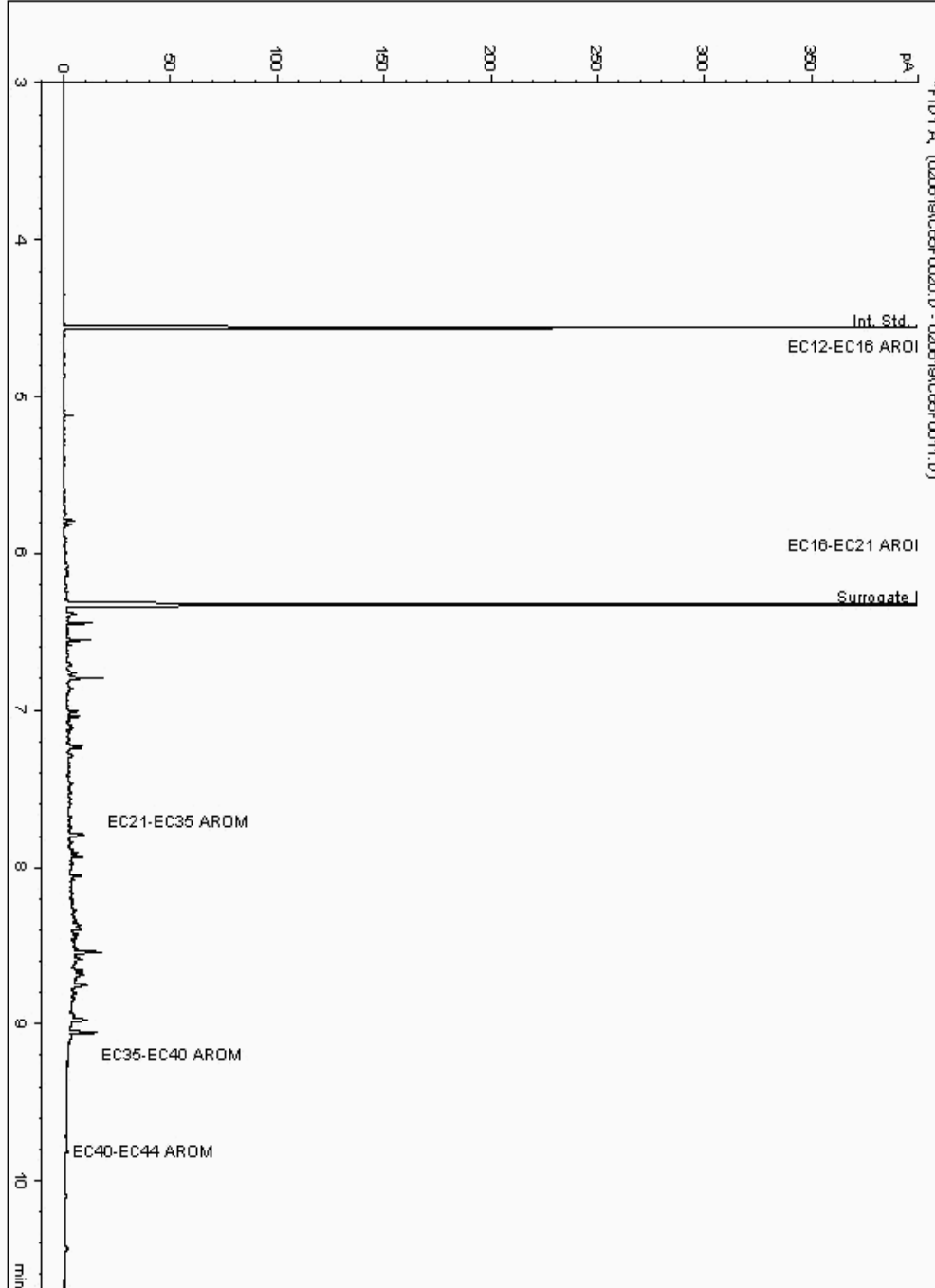
Analysis: EPH CWG (Aromatic) GC (S)
19266483

Sample No :
Sample ID : BH244

19,266,483Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091778-
Date Acquired : 06/02/2019 12:51:31 PM
Units : ppb
Dilution: BH244[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

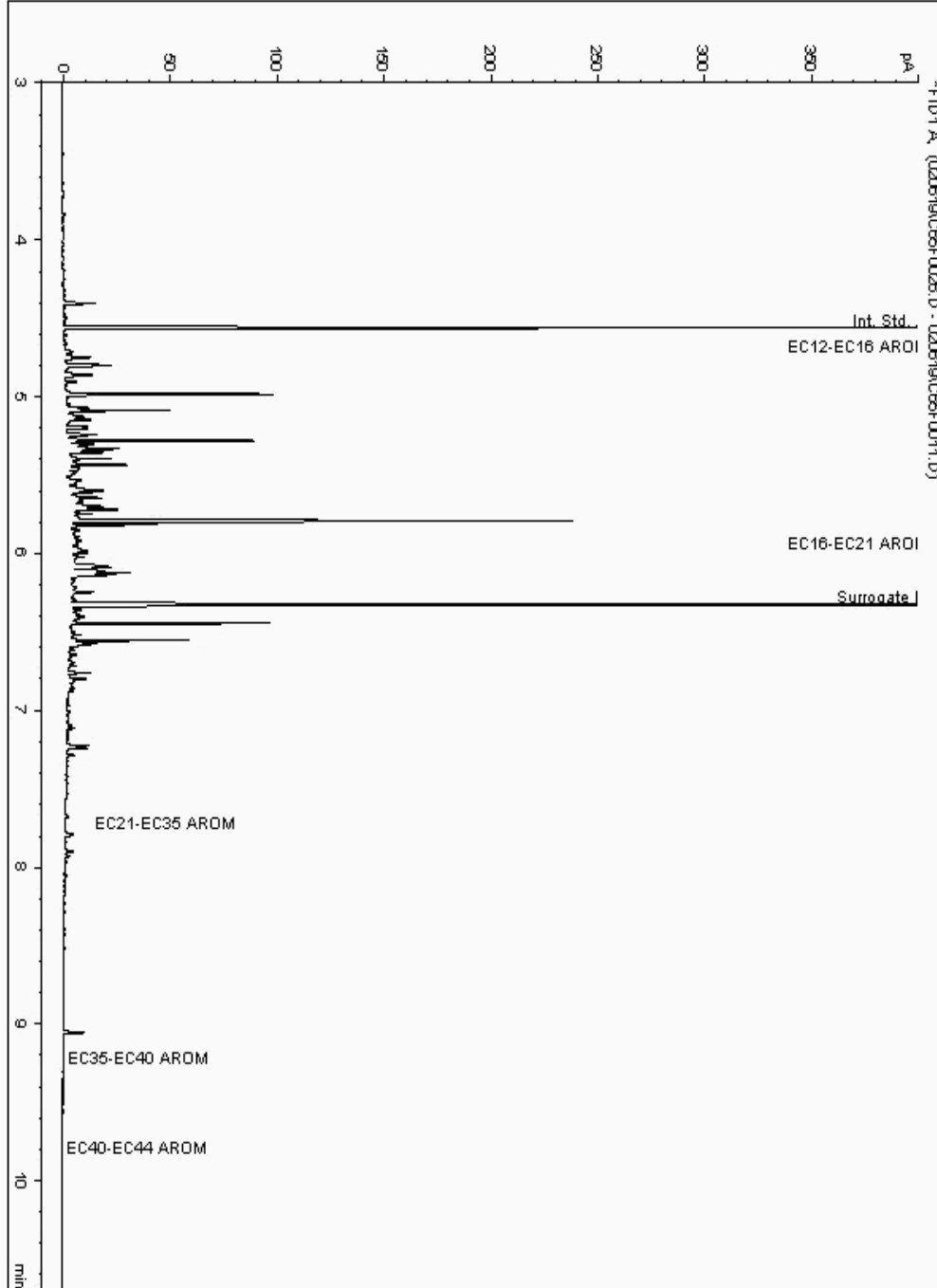
Analysis: EPH CWG (Aromatic) GC (S)
19266622

Sample No :
Sample ID : BH244

19,266,622 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092106-
Date Acquired : 06/02/2019 15:19:25 PM
Units : ppb
Dilution: BH244[8.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

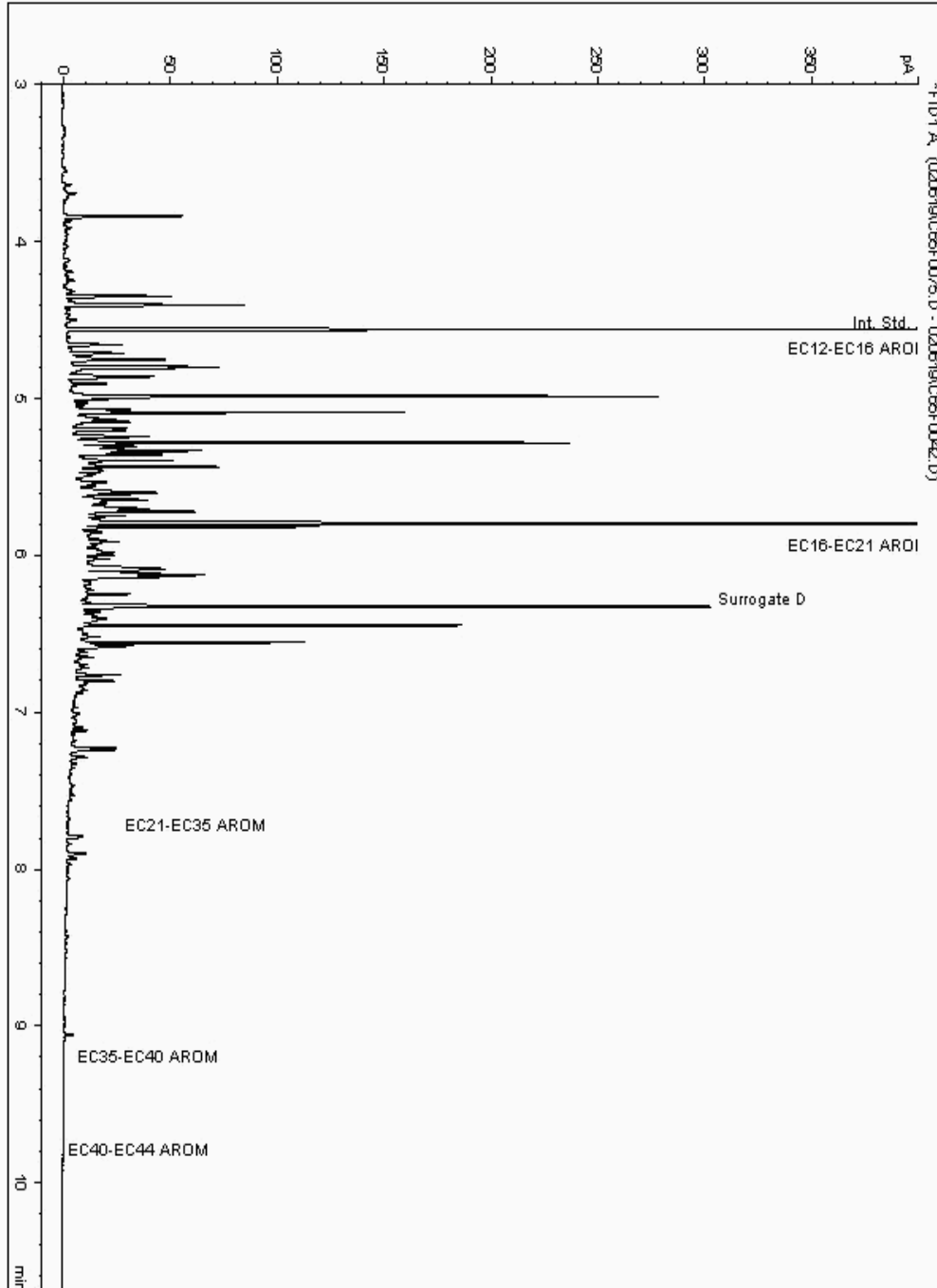
Analysis: EPH CWG (Aromatic) GC (S)
19266810

Sample No :
Sample ID : BH244

19,266,810 Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092024-
Date Acquired : 07/02/2019 13:35:46 PM
Units : ppb
Dilution: BH244[7.00 - 8.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

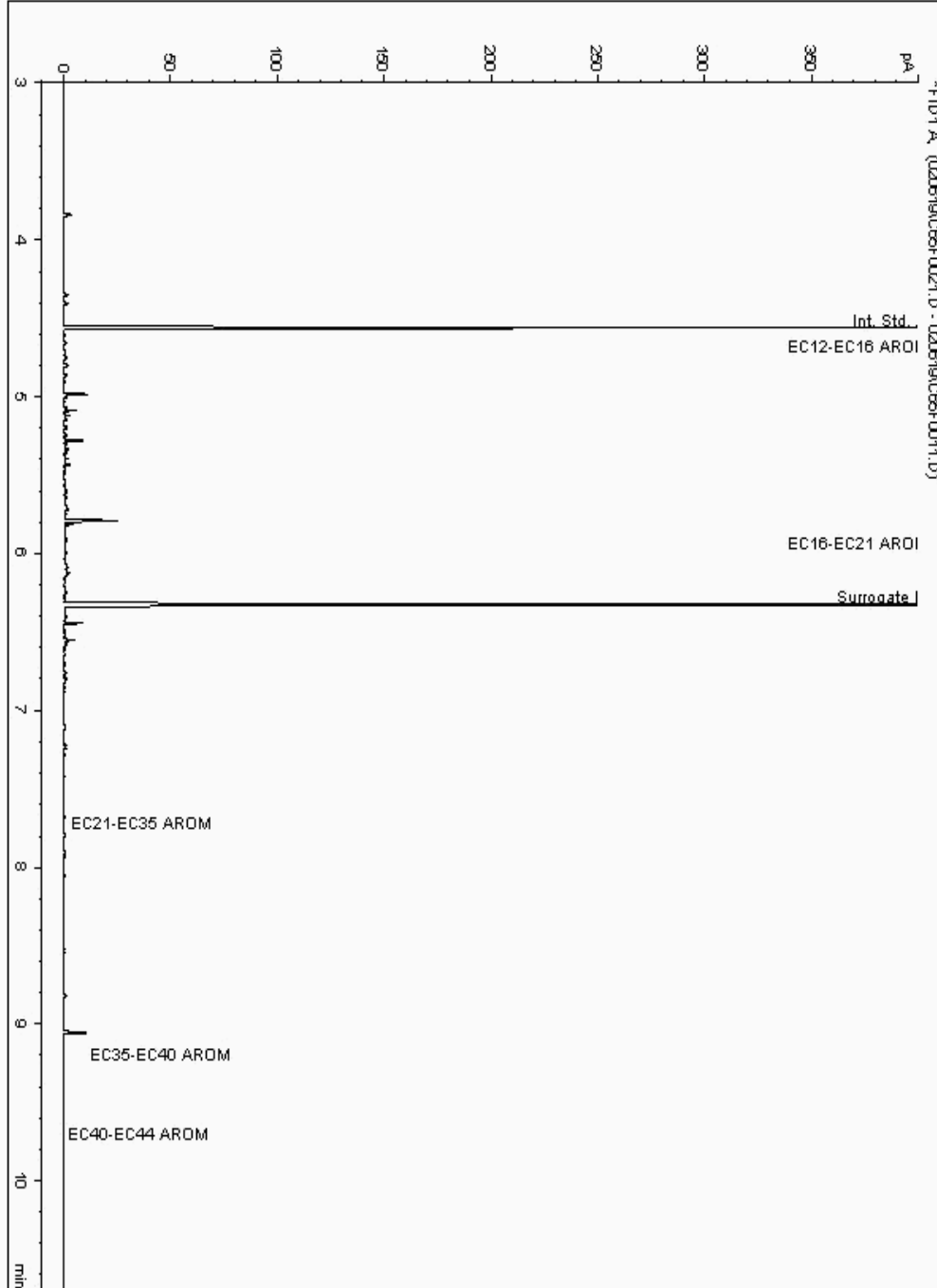
Analysis: EPH CWG (Aromatic) GC (S)
19266952

Sample No :
Sample ID : BH244

19,266,952 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092353-
Date Acquired : 06/02/2019 13:12:03 PM
Units : ppb
Dilution: BH244[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

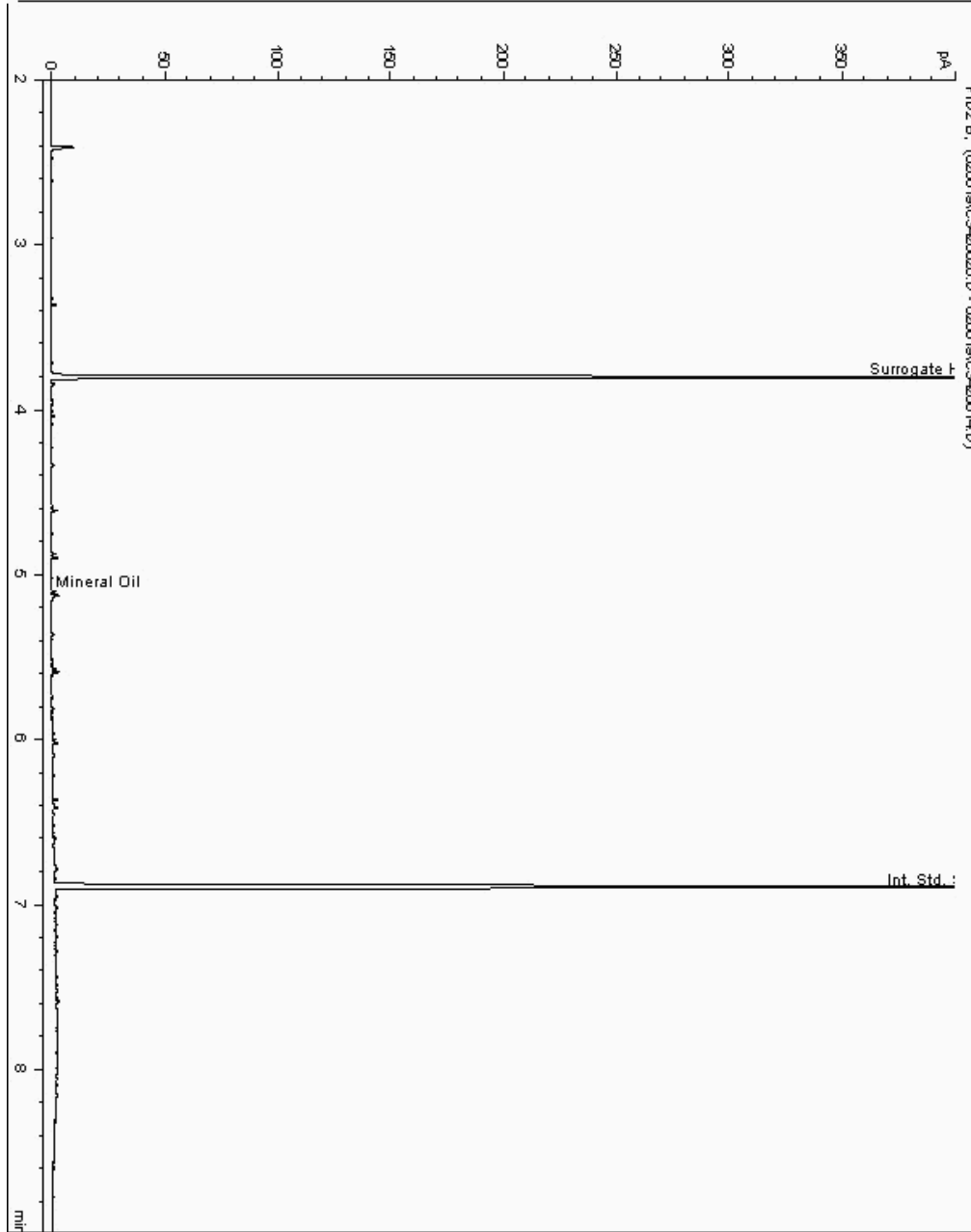
Analysis: Mineral Oil
19259363

Sample No :
Sample ID : BH244

19,259,363Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091675-
Date Acquired : 06/02/19 14:37:42 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

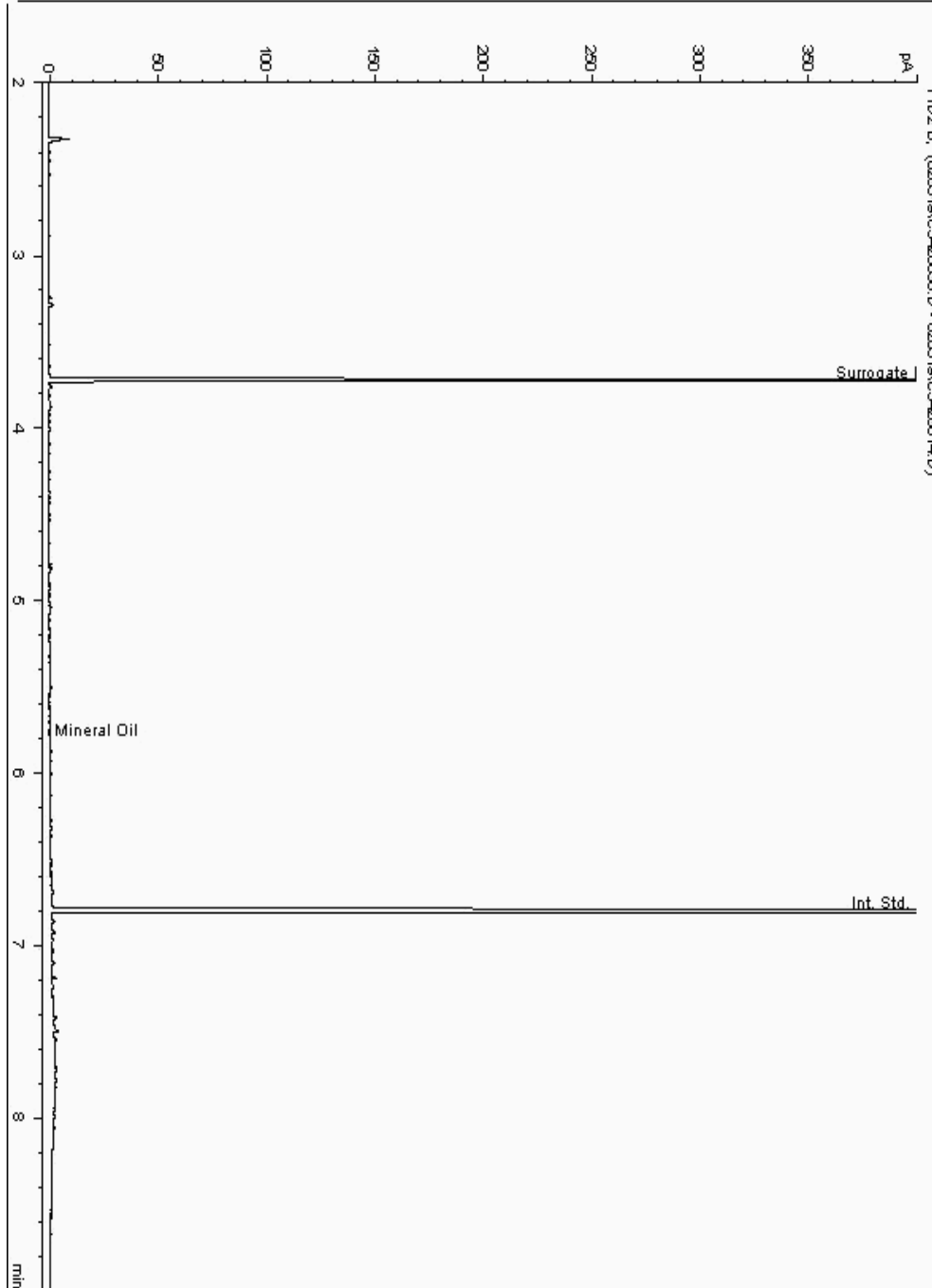
Analysis: Mineral Oil
19259475

Sample No :
Sample ID : BH244

19,259,475 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091831-
Date Acquired : 05/02/2019 18:03:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

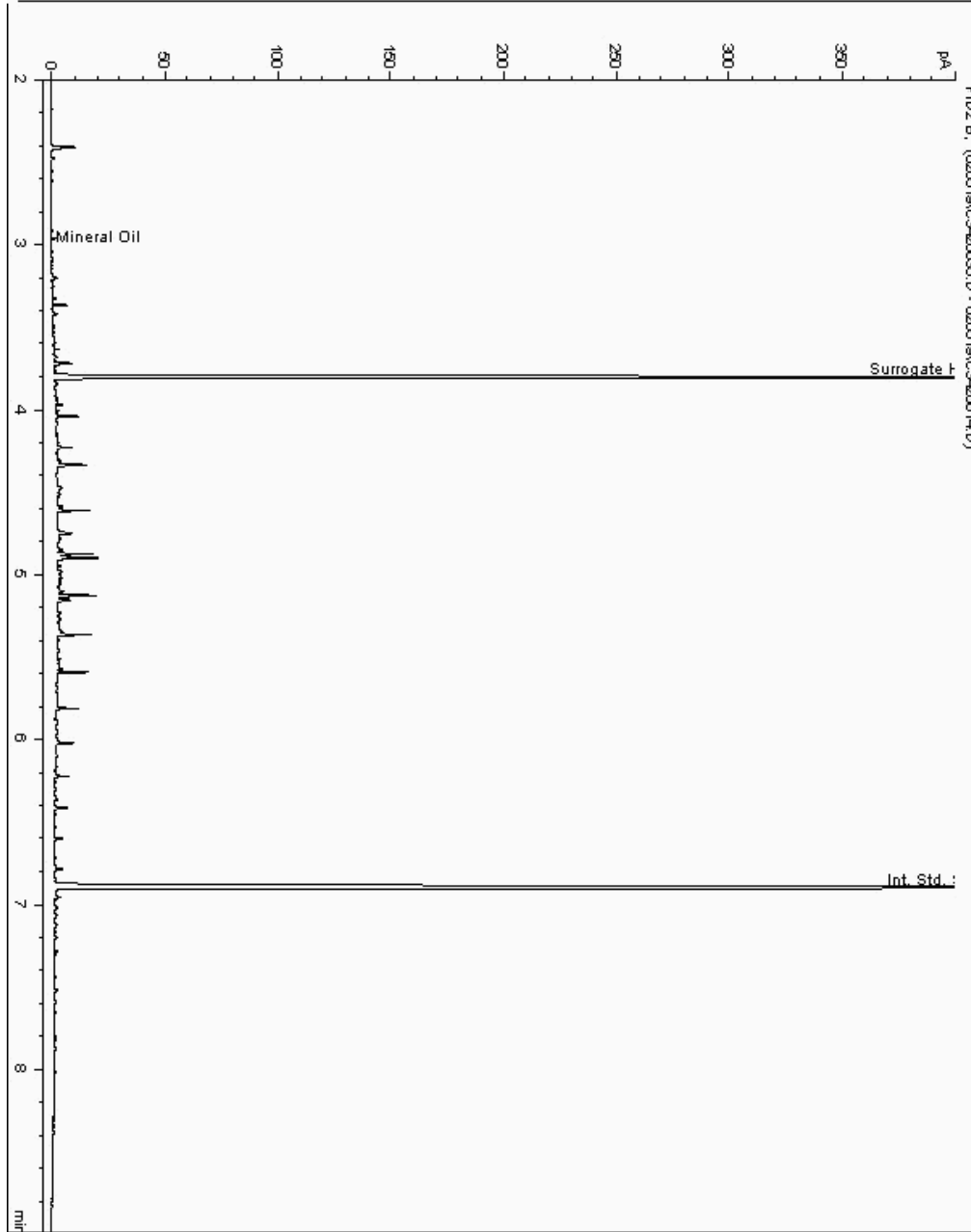
Analysis: Mineral Oil
19261000

Sample No :
Sample ID : BH245

19,261,000Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092637-
Date Acquired : 05/02/19 20:08:22 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

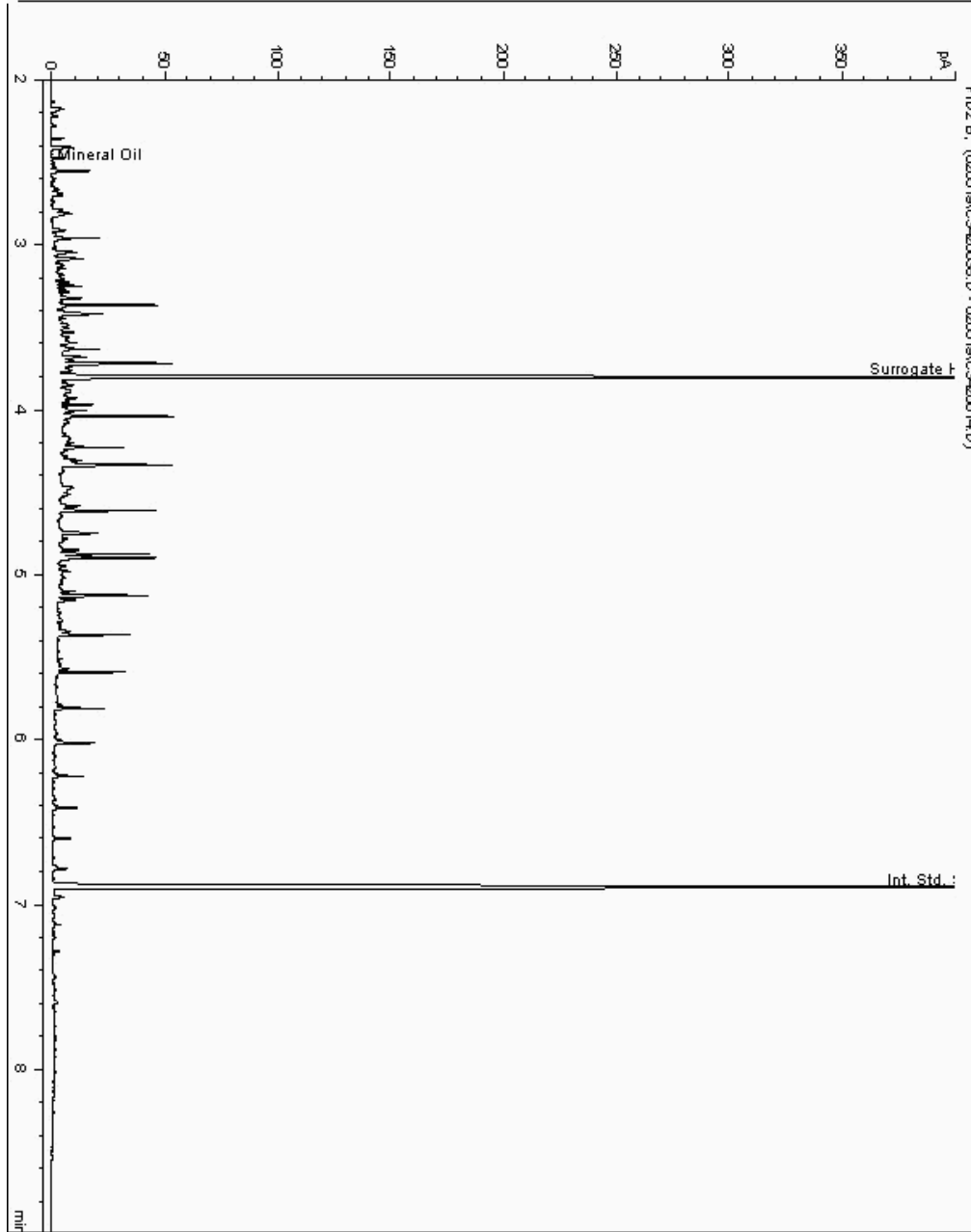
Analysis: Mineral Oil
19261035

Sample No :
Sample ID : BH245

19,261,035Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092701-
Date Acquired : 05/02/19 21:01:09 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

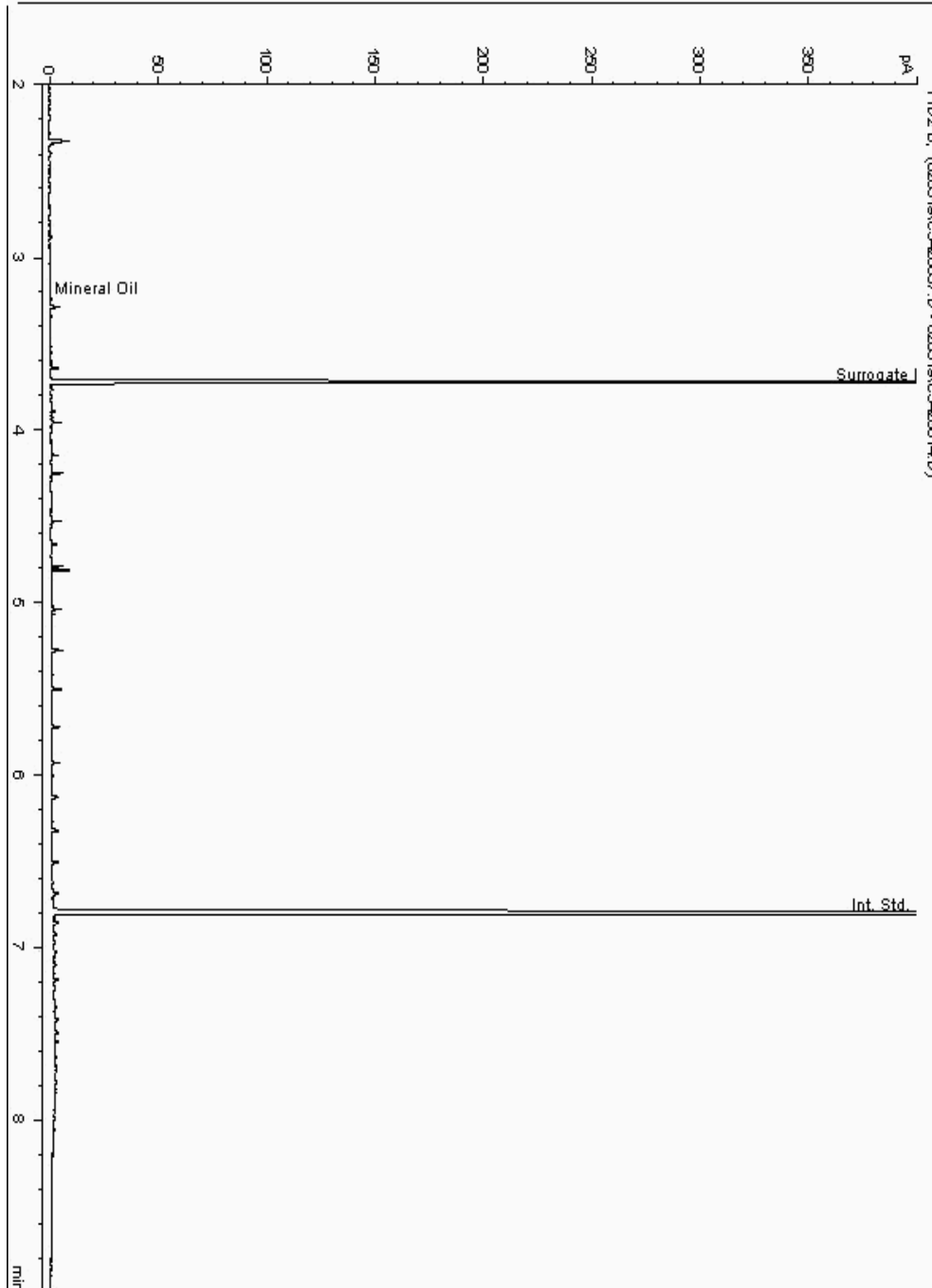
Analysis: Mineral Oil
19261105

Sample No :
Sample ID : BH246

19,261,105Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090693-
Date Acquired : 05/02/2019 17:43:21 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

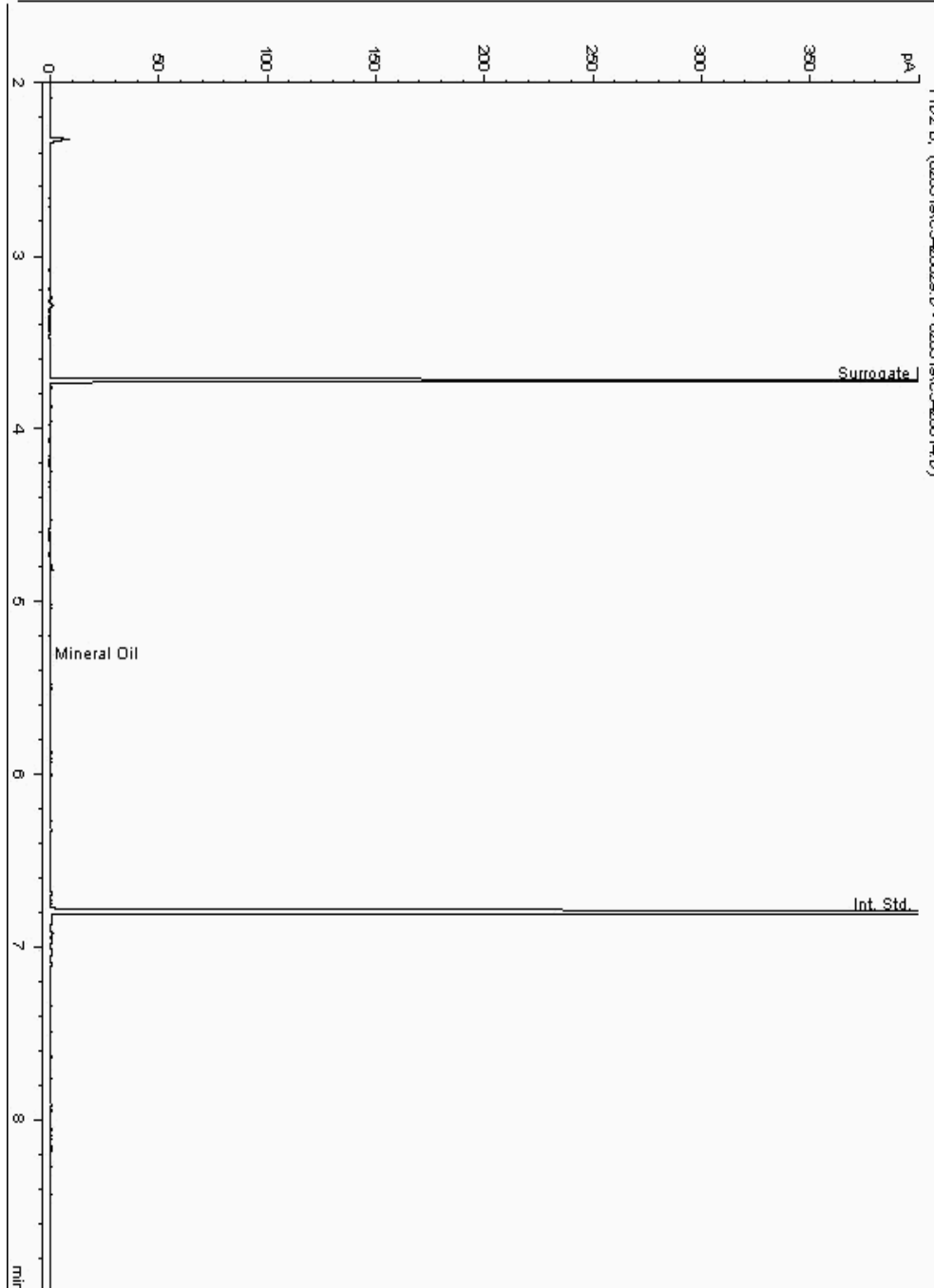
Analysis: Mineral Oil
19261199

Sample No :
Sample ID : BH246

19,261,199Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091050-
Date Acquired : 05/02/2019 15:14:51 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

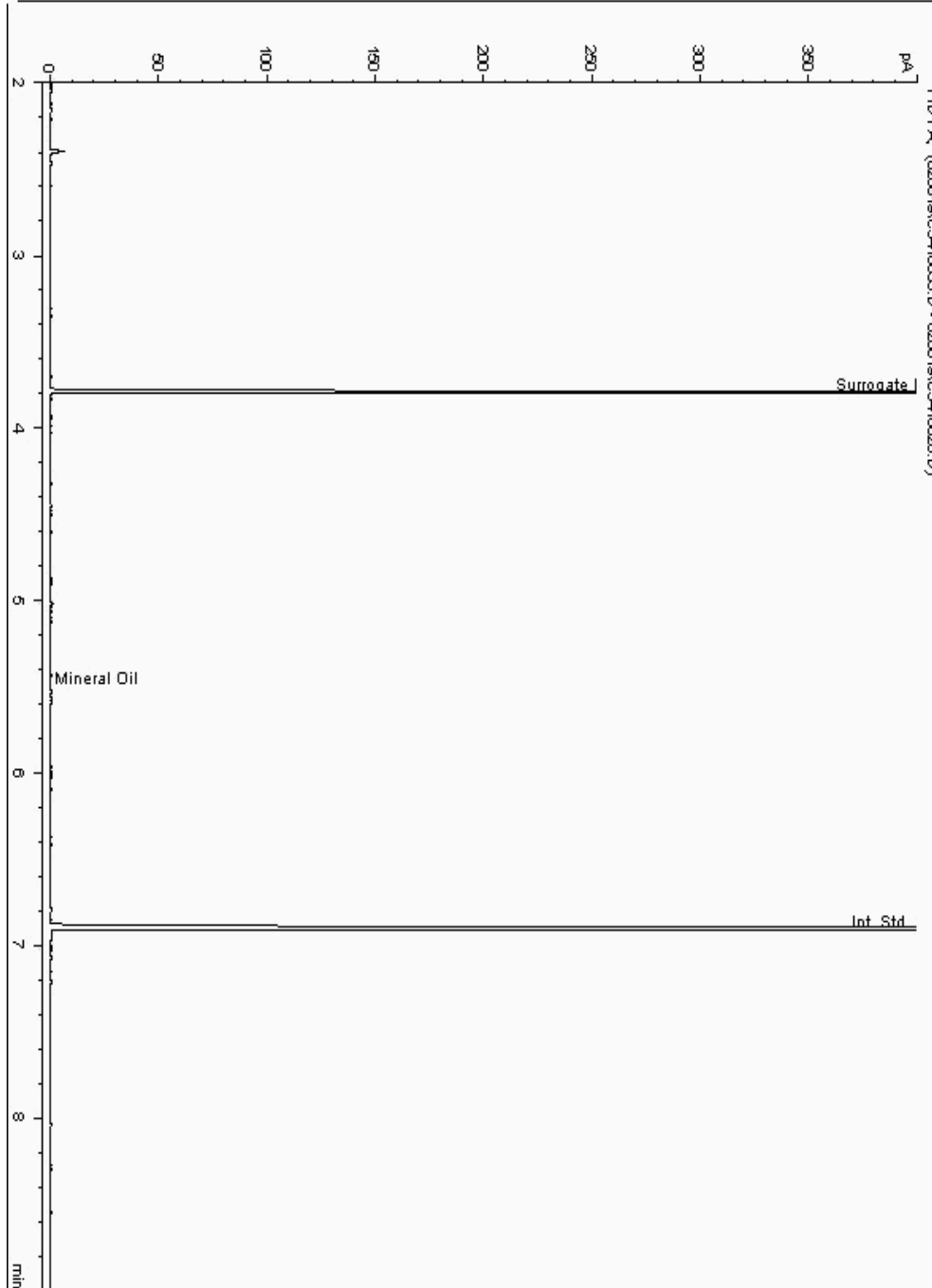
Analysis: Mineral Oil
19261255

Sample No :
Sample ID : BH244

19,261,255Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092279-
Date Acquired : 07/02/2019 10:08:19 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

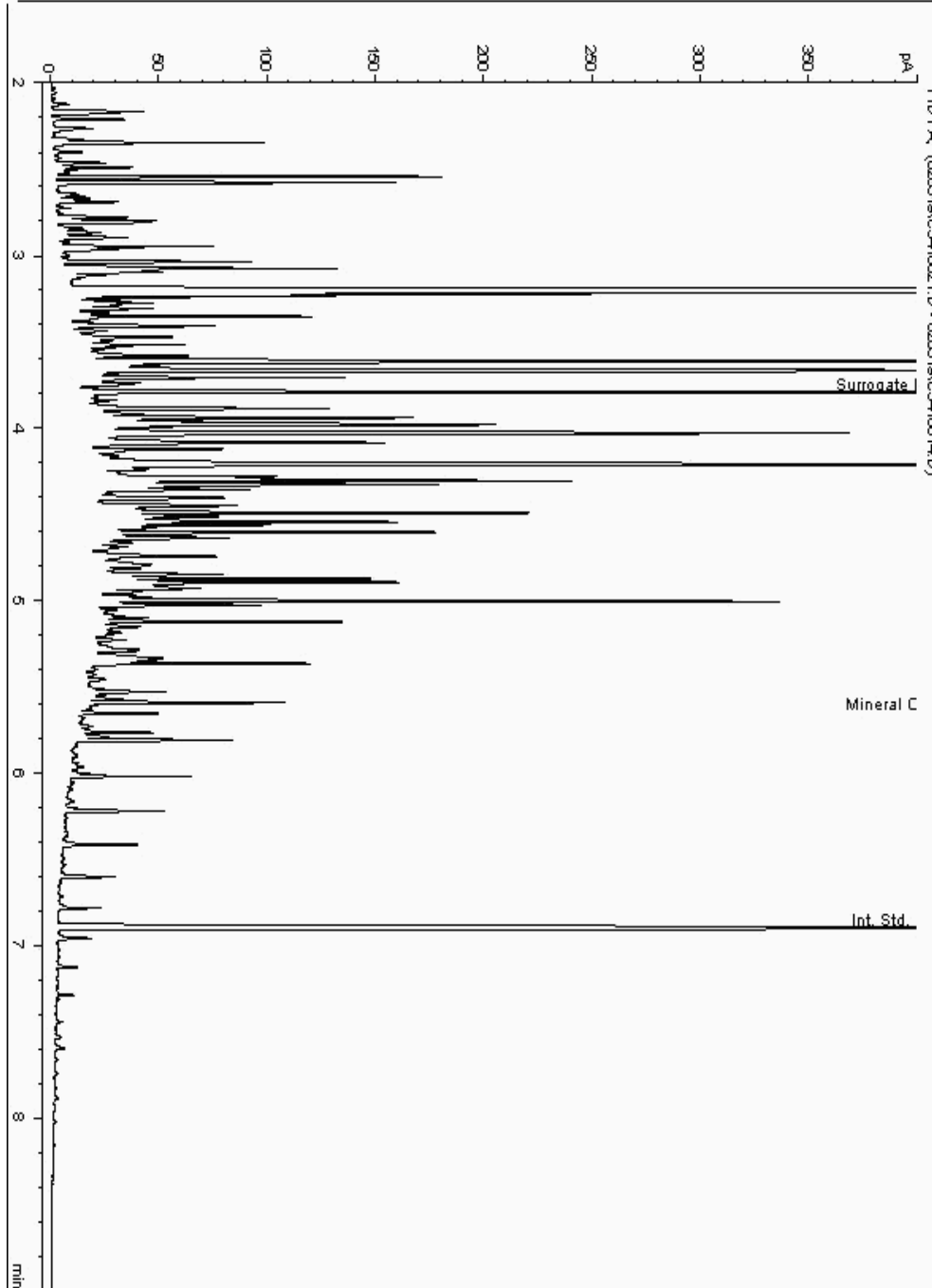
Analysis: Mineral Oil
19261495

Sample No :
Sample ID : BH245

19,261,495Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092866-
Date Acquired : 05/02/2019 12:54:40 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

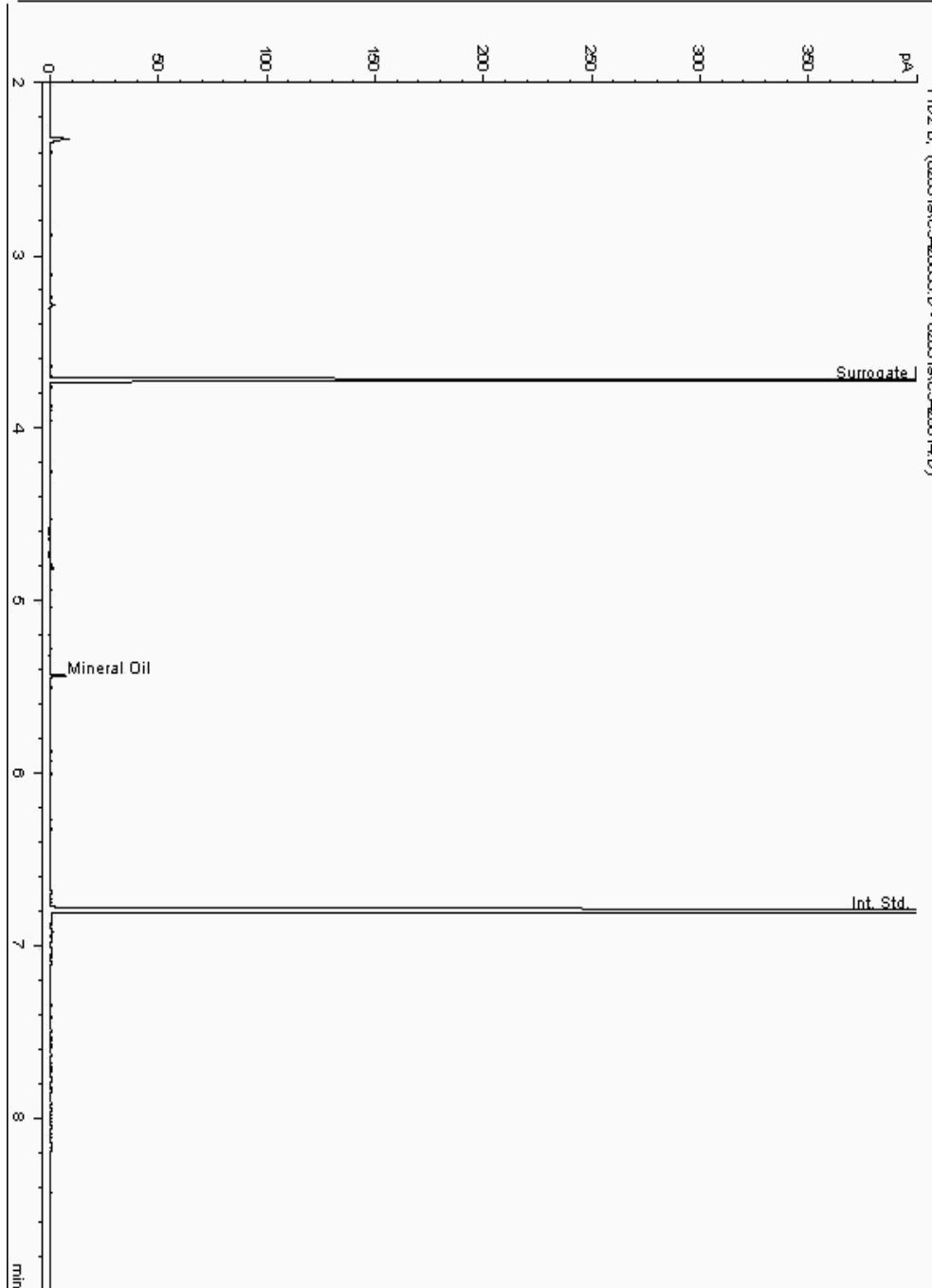
Analysis: Mineral Oil
19261536

Sample No :
Sample ID : BH244

19,261,536 Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092469-
Date Acquired : 05/02/2019 17:10:38 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

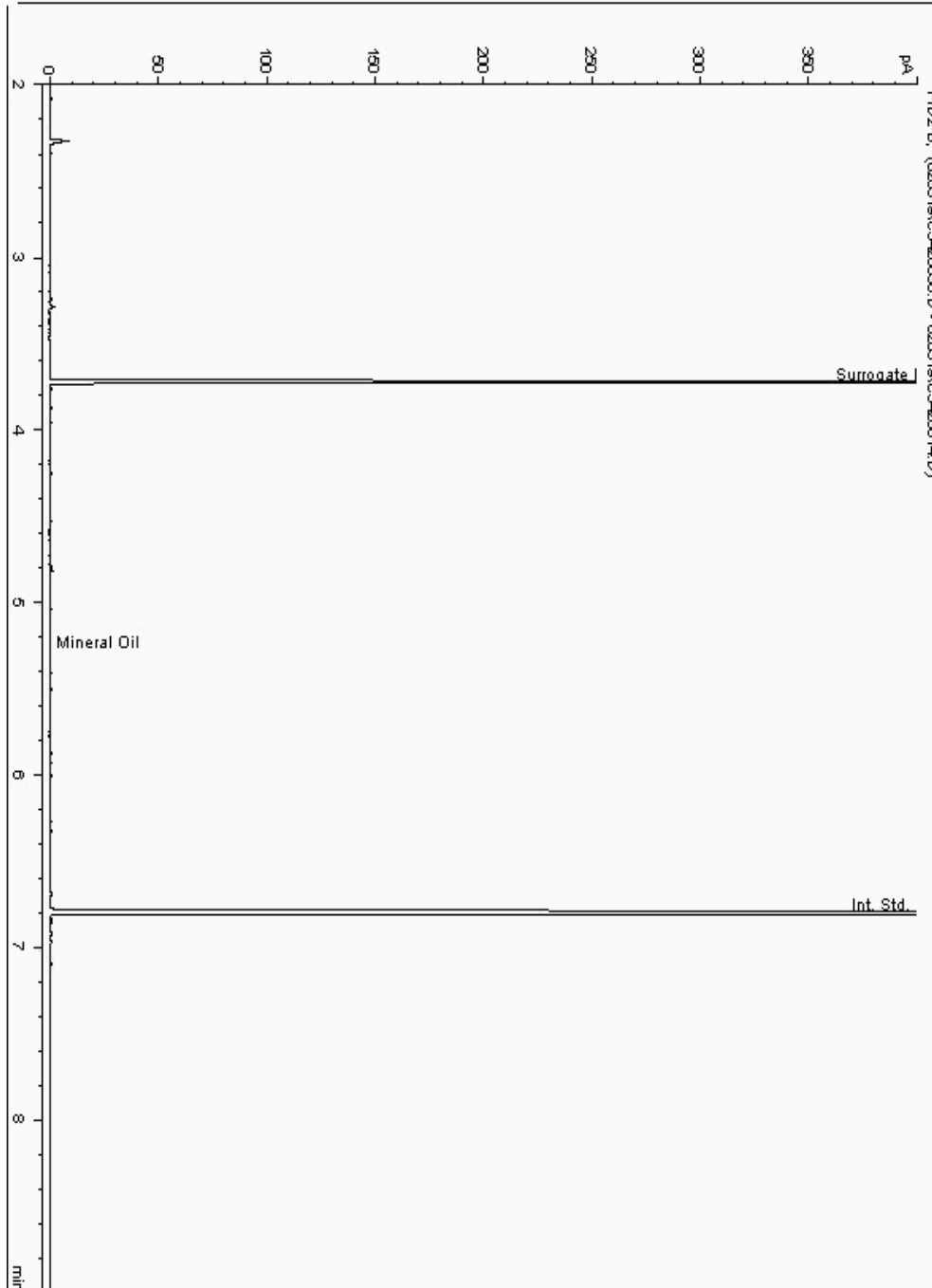
Analysis: Mineral Oil
19261628

Sample No :
Sample ID : BH245

19,261,628 Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18093270-
Date Acquired : 05/02/2019 15:35:29 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

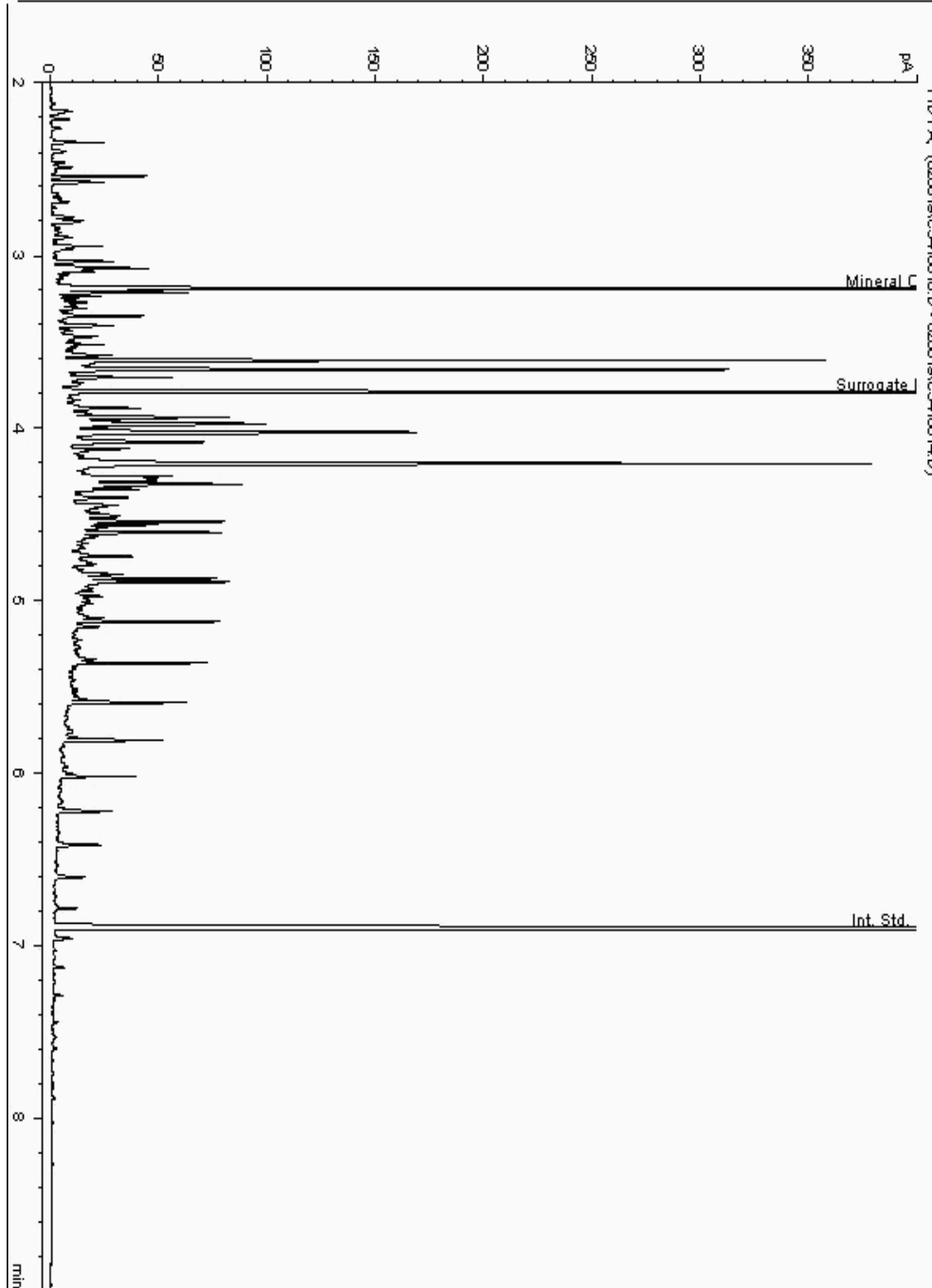
Analysis: Mineral Oil
19261883

Sample No :
Sample ID : BH245

19,261,883 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18093085-
Date Acquired : 06/02/2019 11:34:27 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

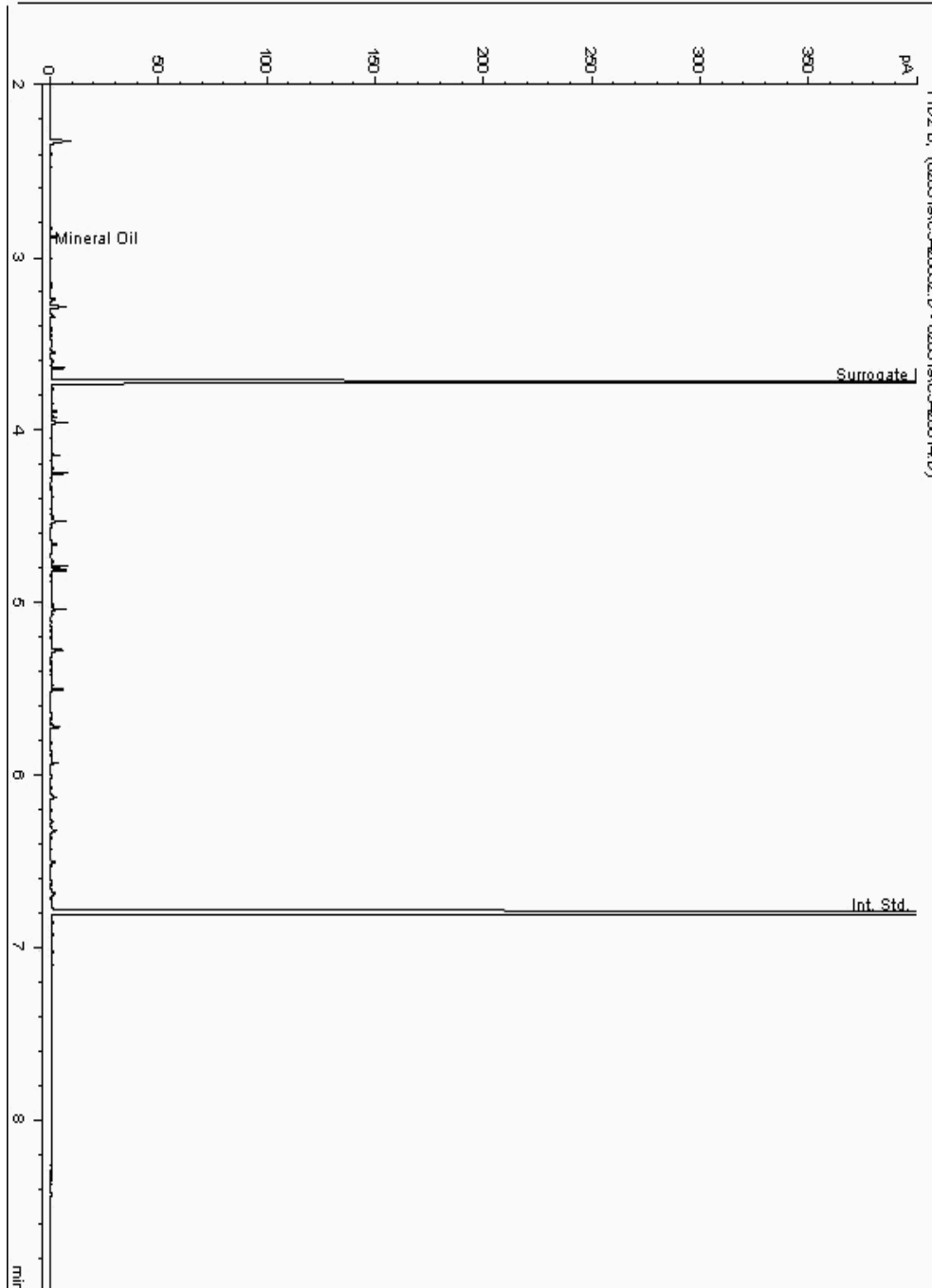
Analysis: Mineral Oil
19261987

Sample No :
Sample ID : BH246

19,261,987Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091000-
Date Acquired : 05/02/2019 16:16:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

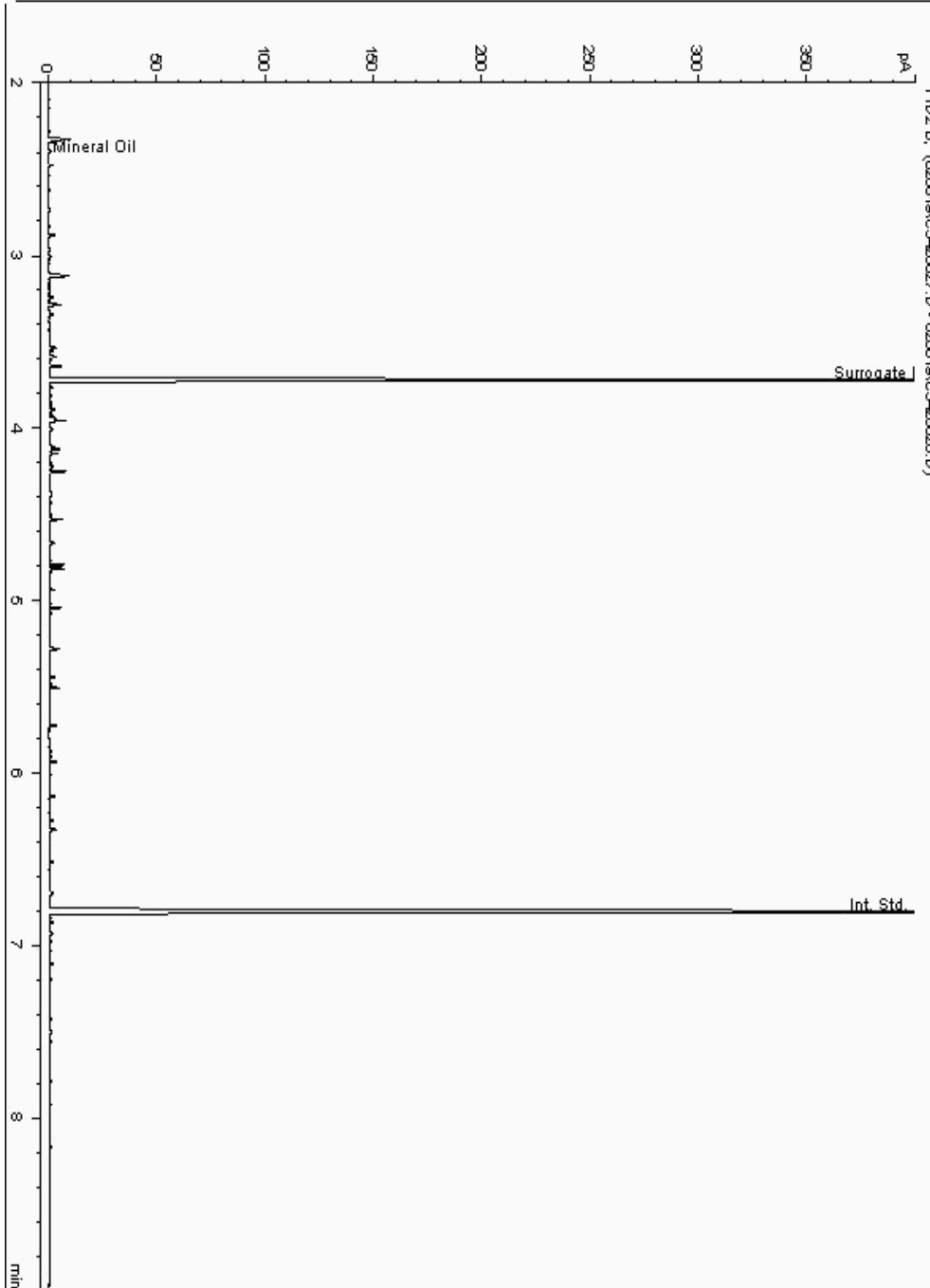
Analysis: Mineral Oil
19262086

Sample No :
Sample ID : BH246

19,262,086Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090915-
Date Acquired : 07/02/2019 07:33:03 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

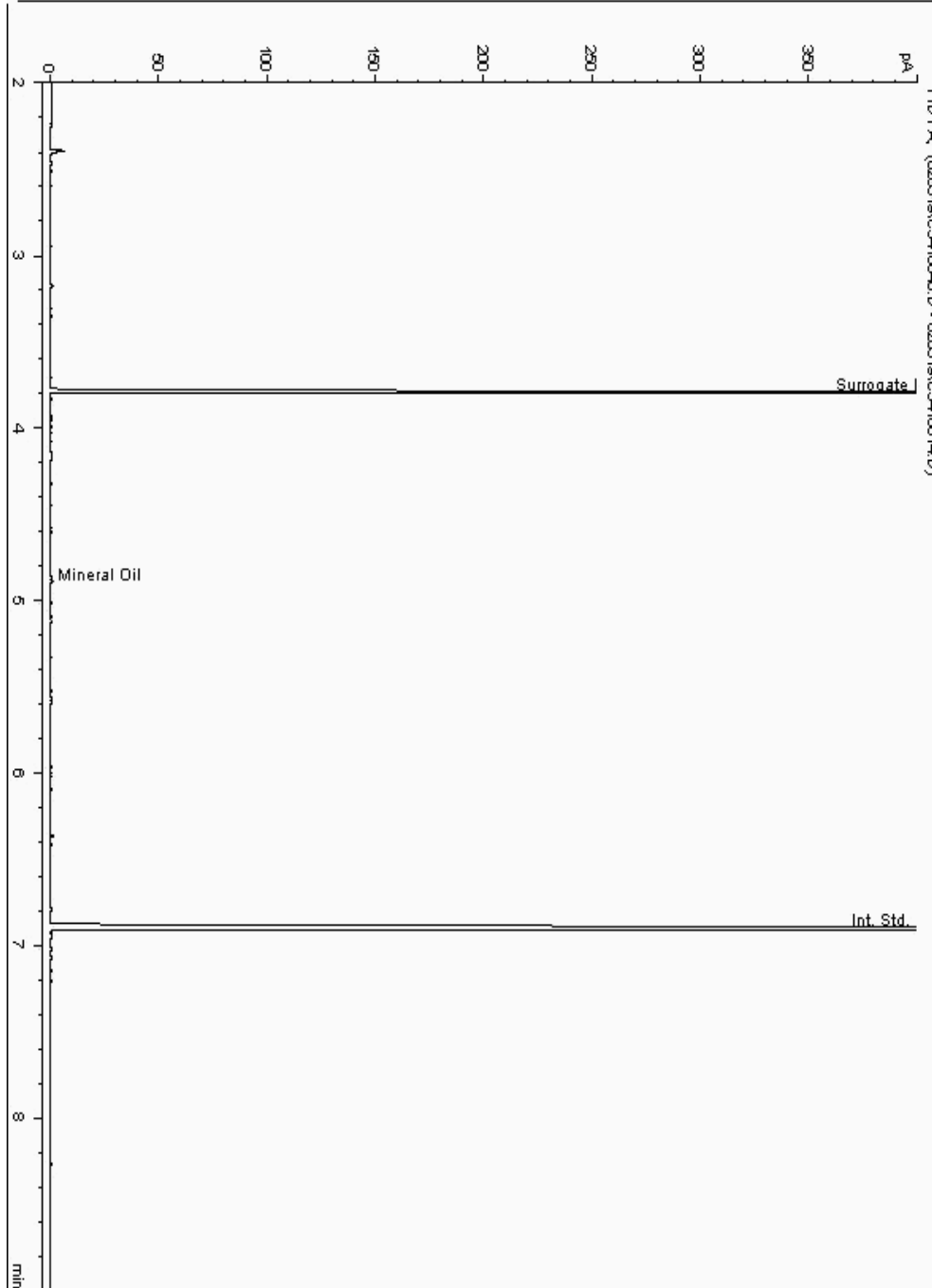
Analysis: Mineral Oil
19262127

Sample No :
Sample ID : BH244

19,262,127Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092190-
Date Acquired : 05/02/2019 18:36:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

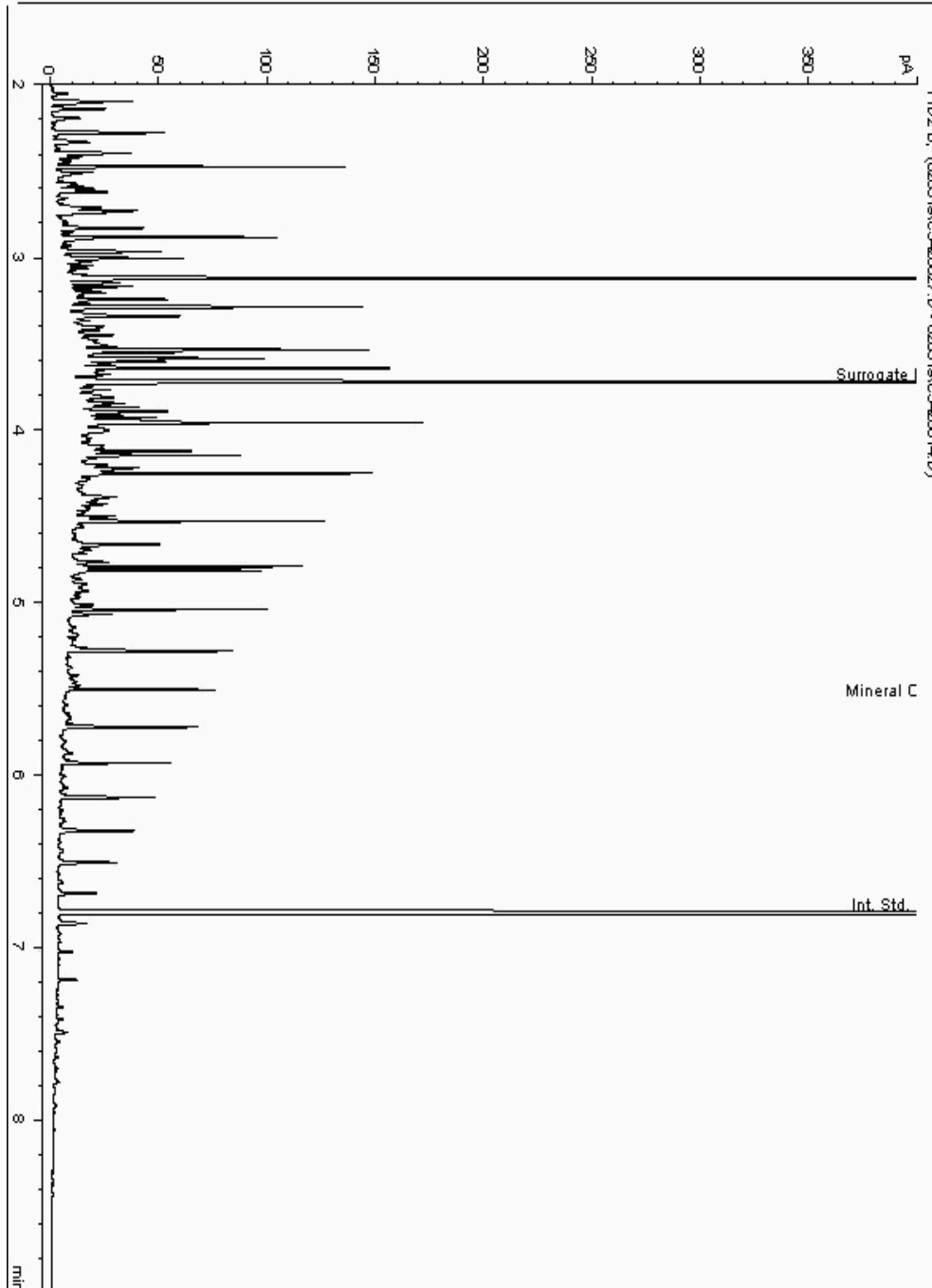
Analysis: Mineral Oil
19262204

Sample No :
Sample ID : BH246

19,262,204Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090840-
Date Acquired : 05/02/2019 14:41:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

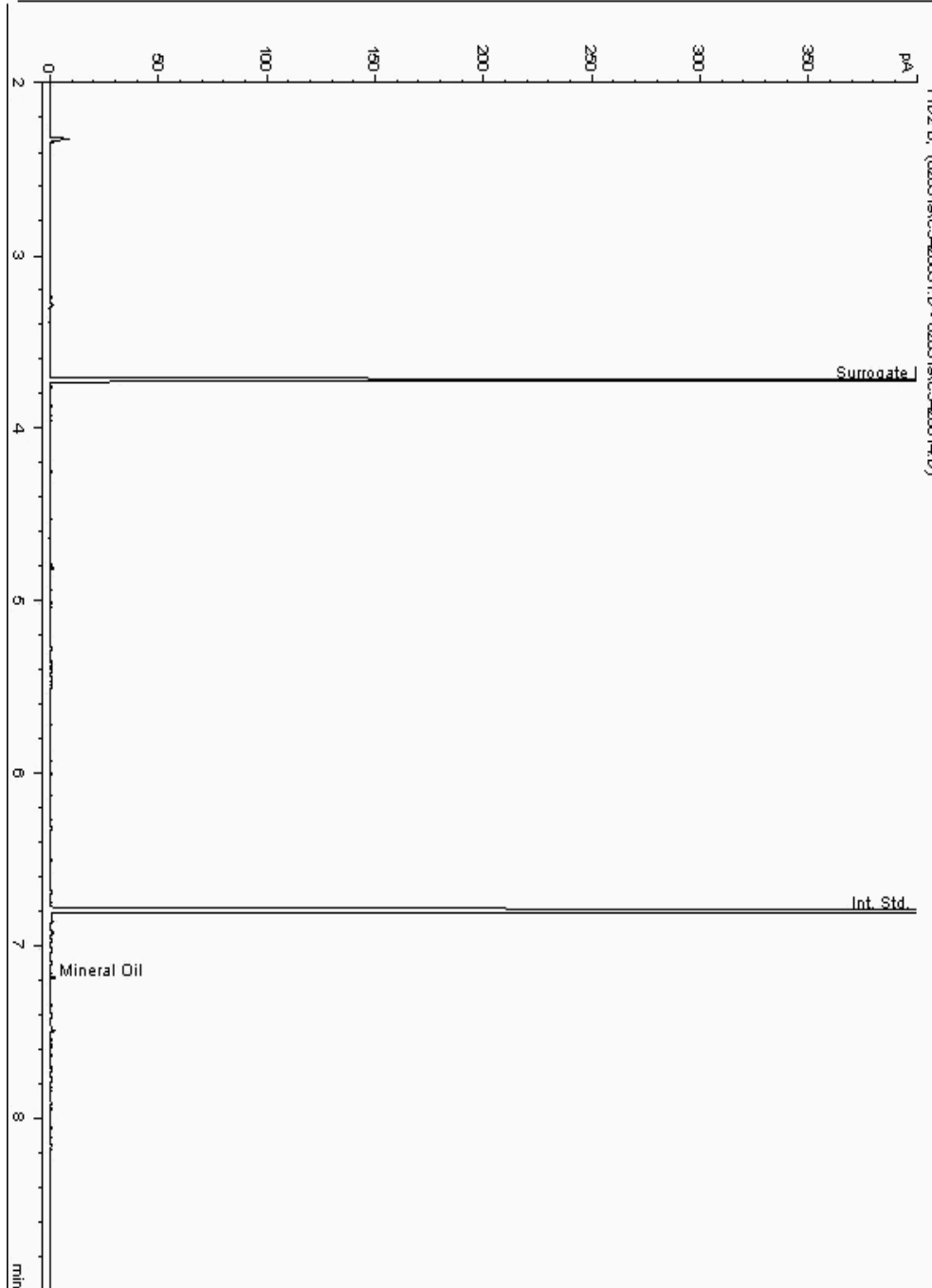
Analysis: Mineral Oil
19262271

Sample No :
Sample ID : BH246

19,262,271 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090742-
Date Acquired : 05/02/2019 15:56:21 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

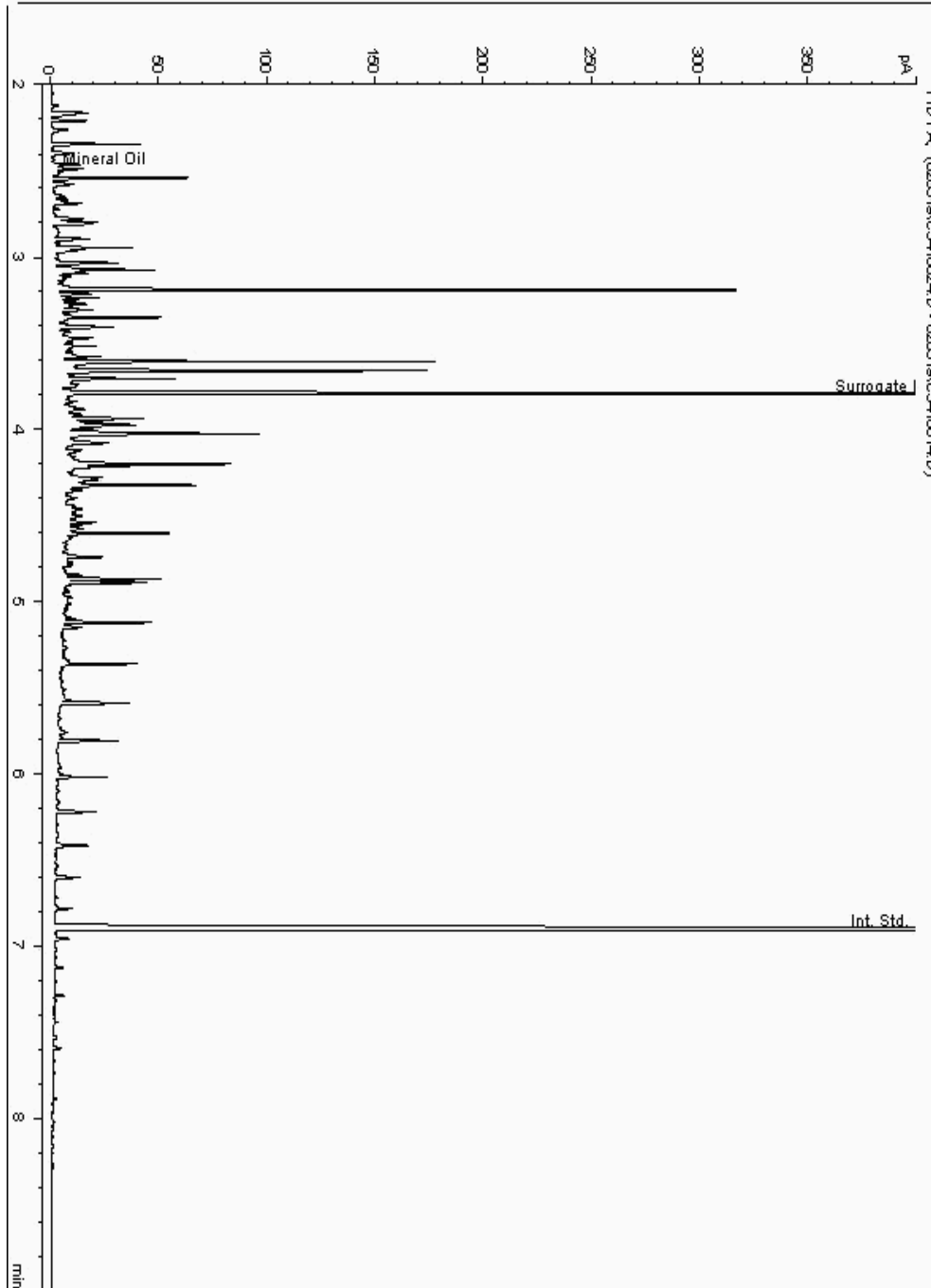
Analysis: Mineral Oil
19262430

Sample No :
Sample ID : BH246

19,262,430 Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090789-
Date Acquired : 05/02/2019 13:48:21 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

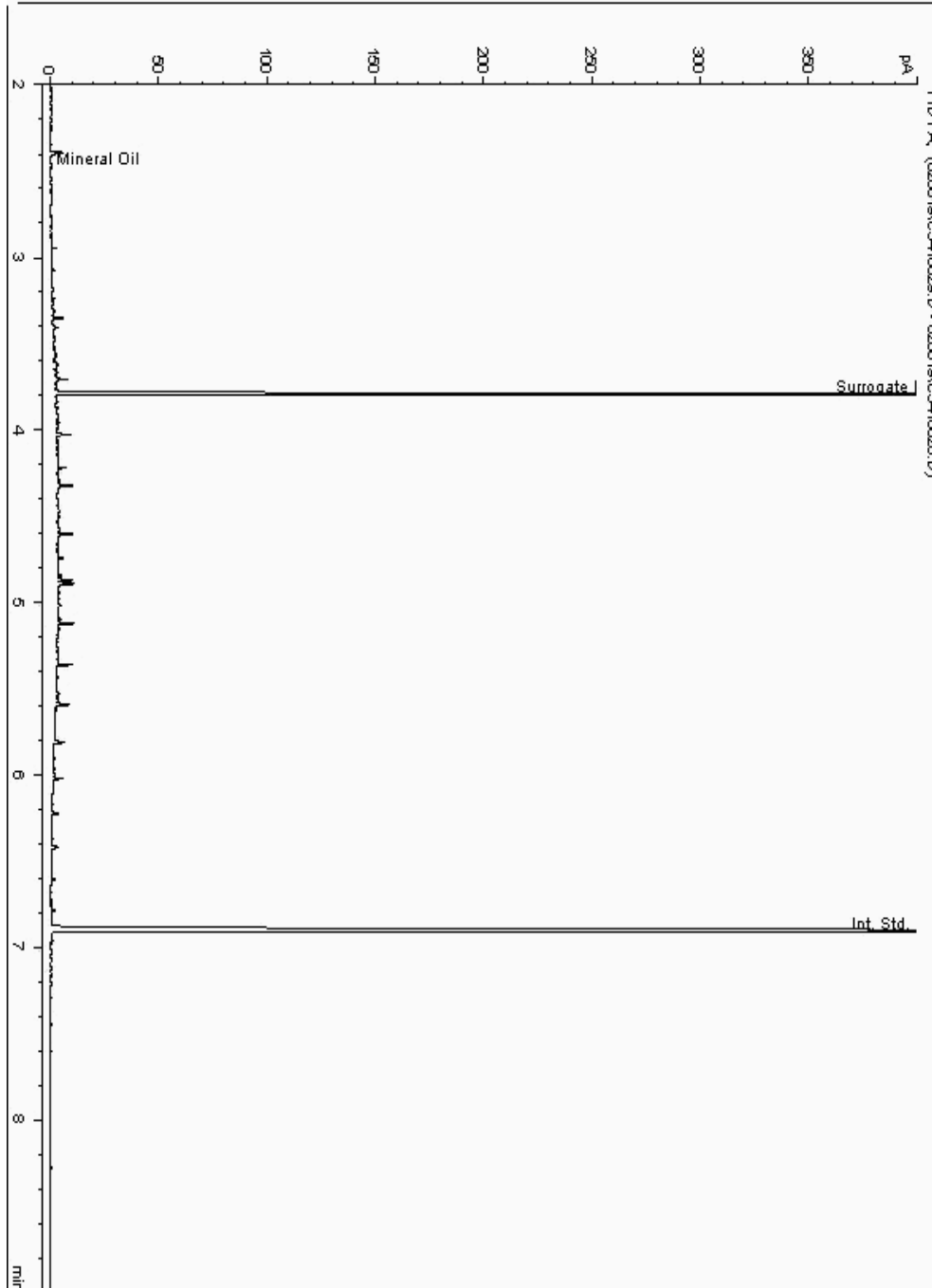
Analysis: Mineral Oil
19262811

Sample No :
Sample ID : BH245

19,262,811Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18093190-
Date Acquired : 07/02/2019 08:14:08 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

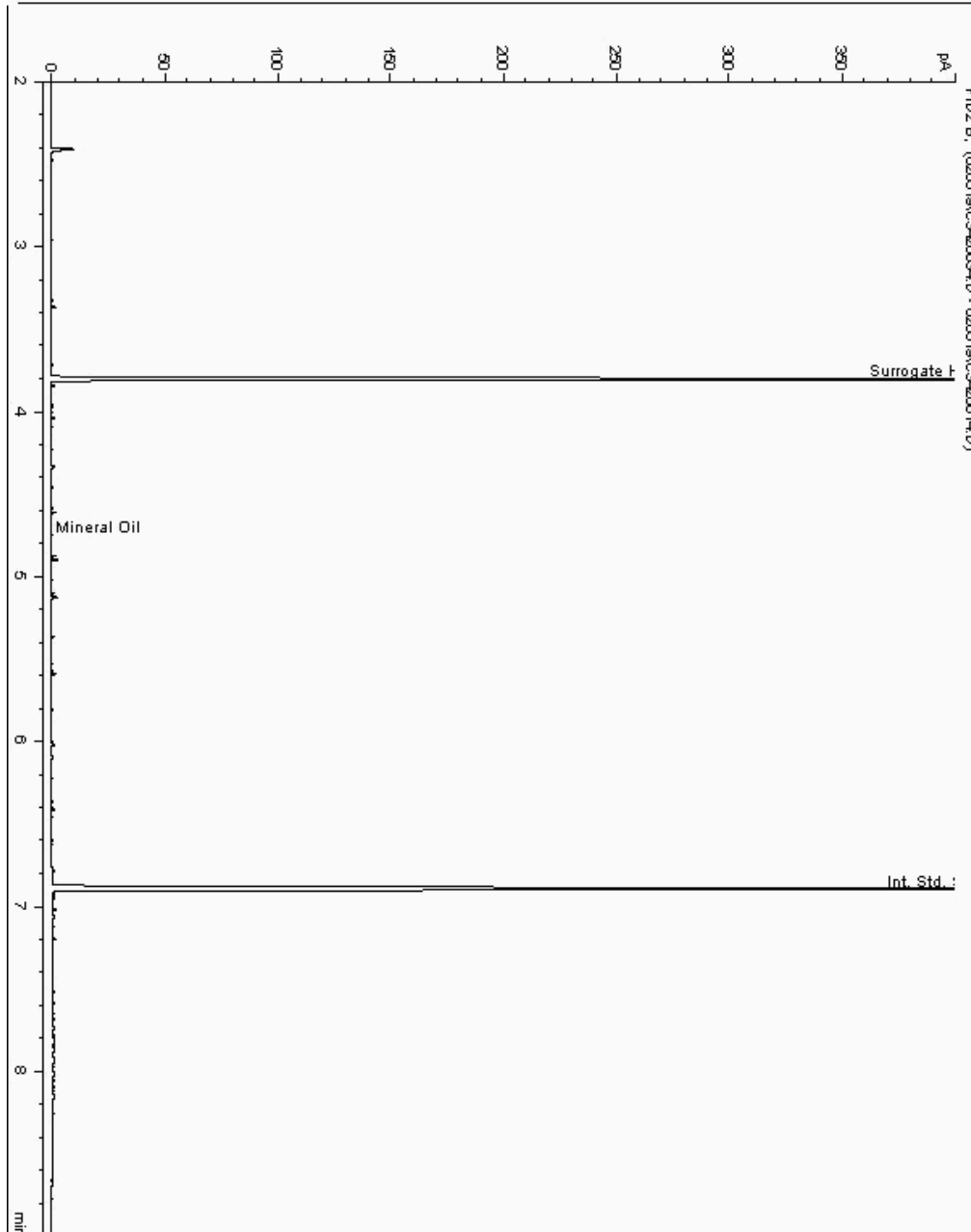
Analysis: Mineral Oil
19262903

Sample No :
Sample ID : BH245

19,262,903 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18093336-
Date Acquired : 05/02/19 19:47:56 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

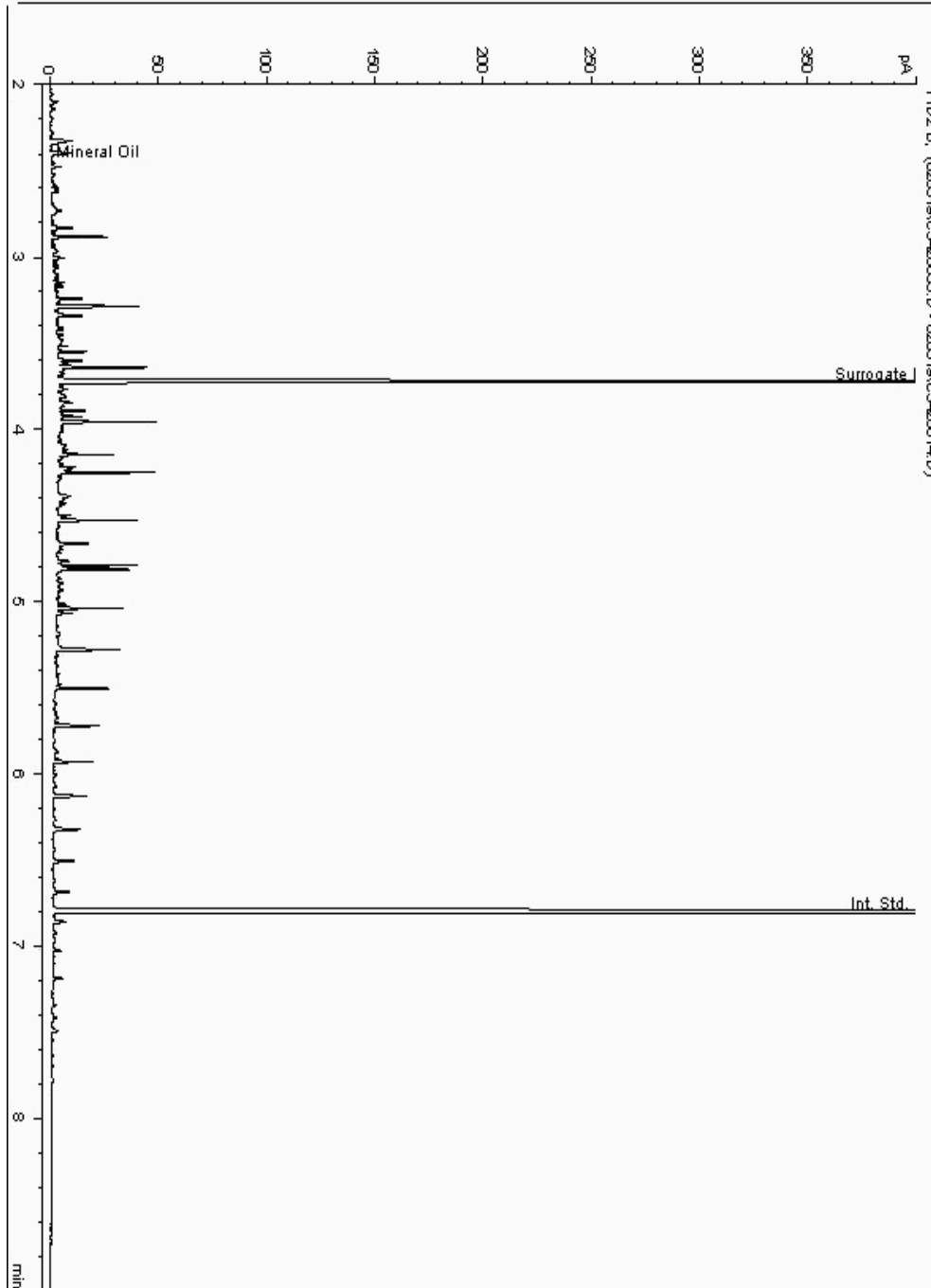
Analysis: Mineral Oil
19262979

Sample No :
Sample ID : BH246

19,262,979 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18090583-
Date Acquired : 05/02/2019 16:37:29 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

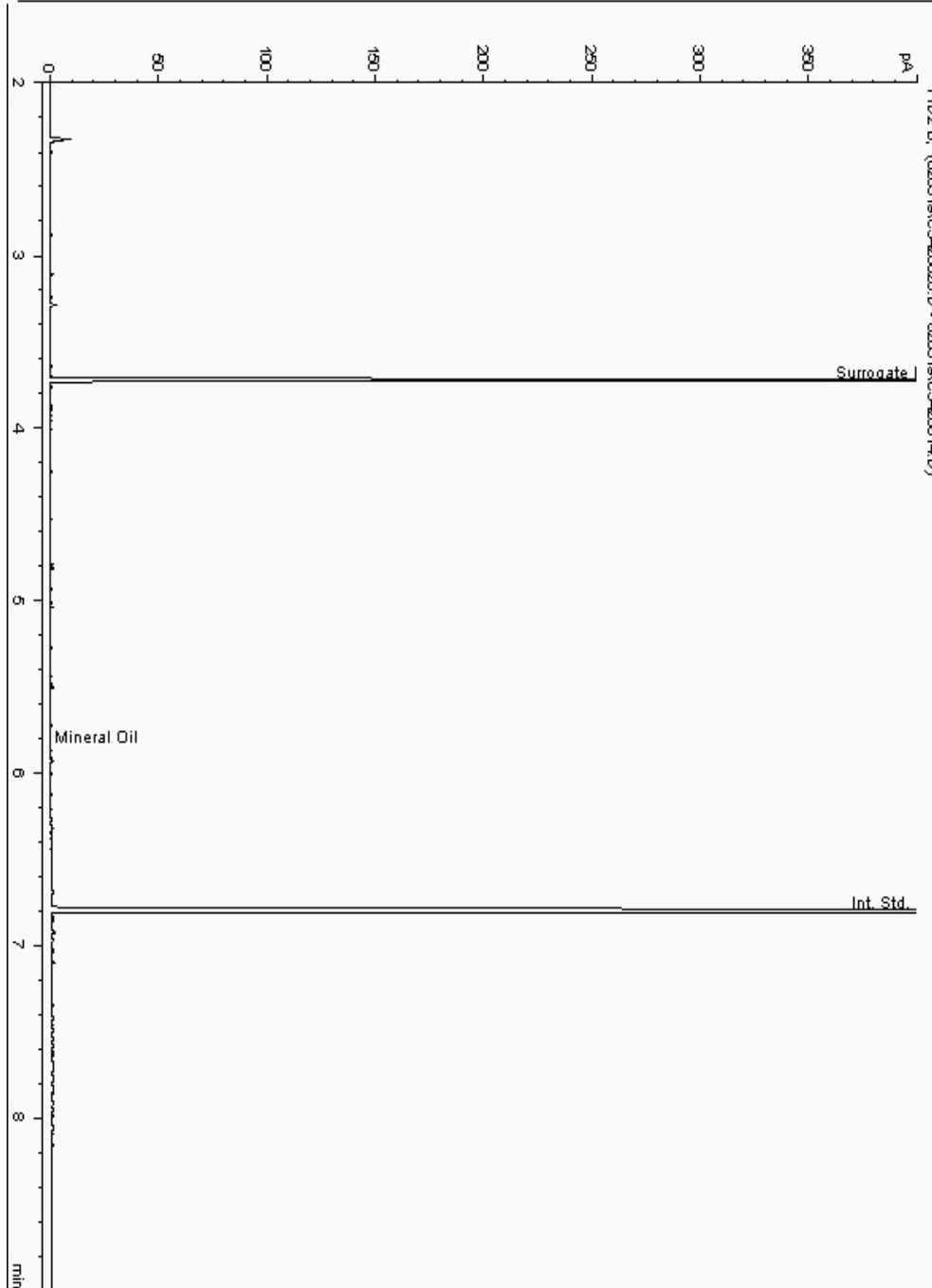
Analysis: Mineral Oil
19263160

Sample No :
Sample ID : BH246

19,263,160 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091136-
Date Acquired : 05/02/2019 14:21:03 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

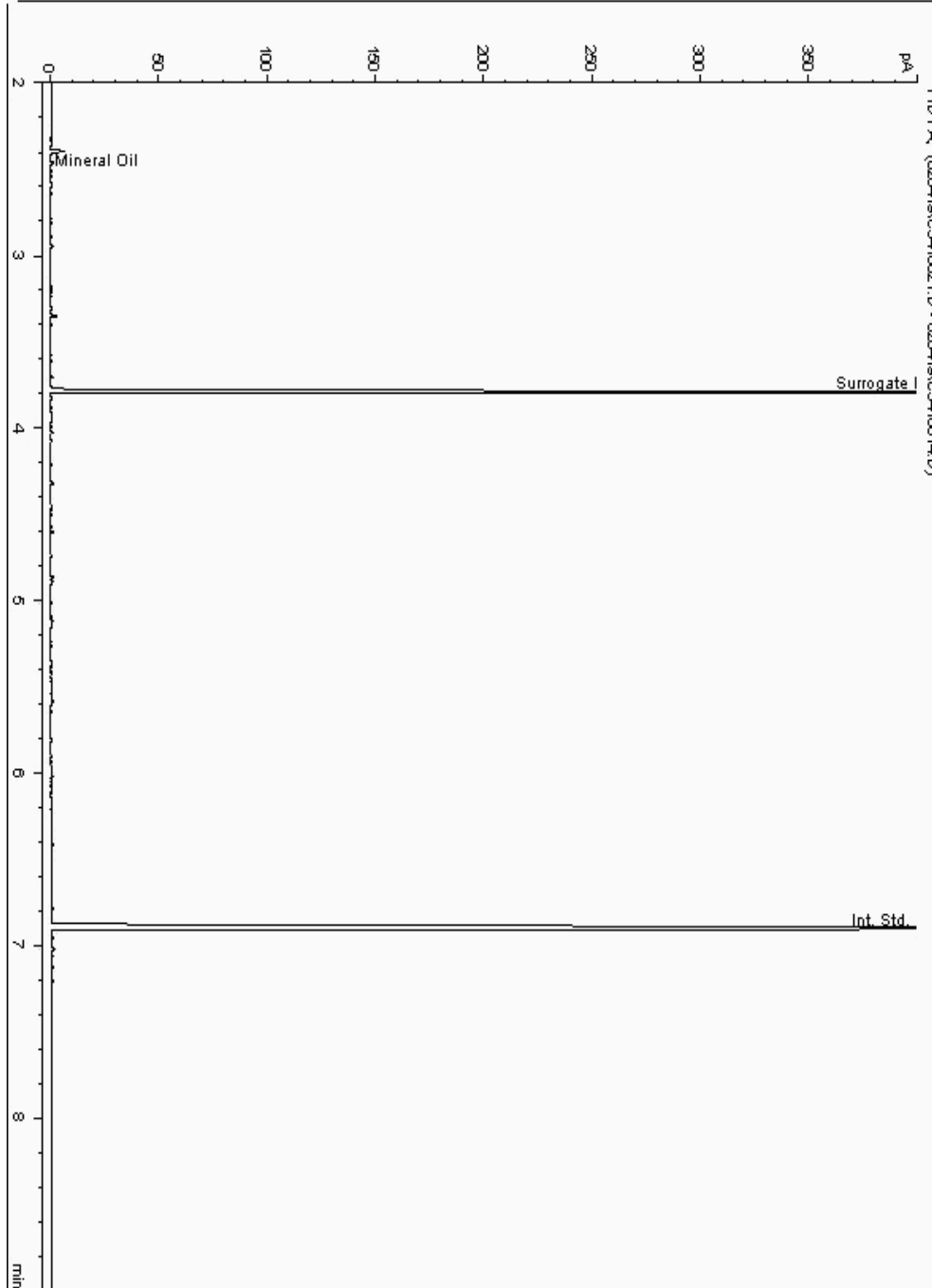
Analysis: Mineral Oil
19263213

Sample No :
Sample ID : BH246

19,263,213 Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091200-
Date Acquired : 04/02/2019 17:45:42 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

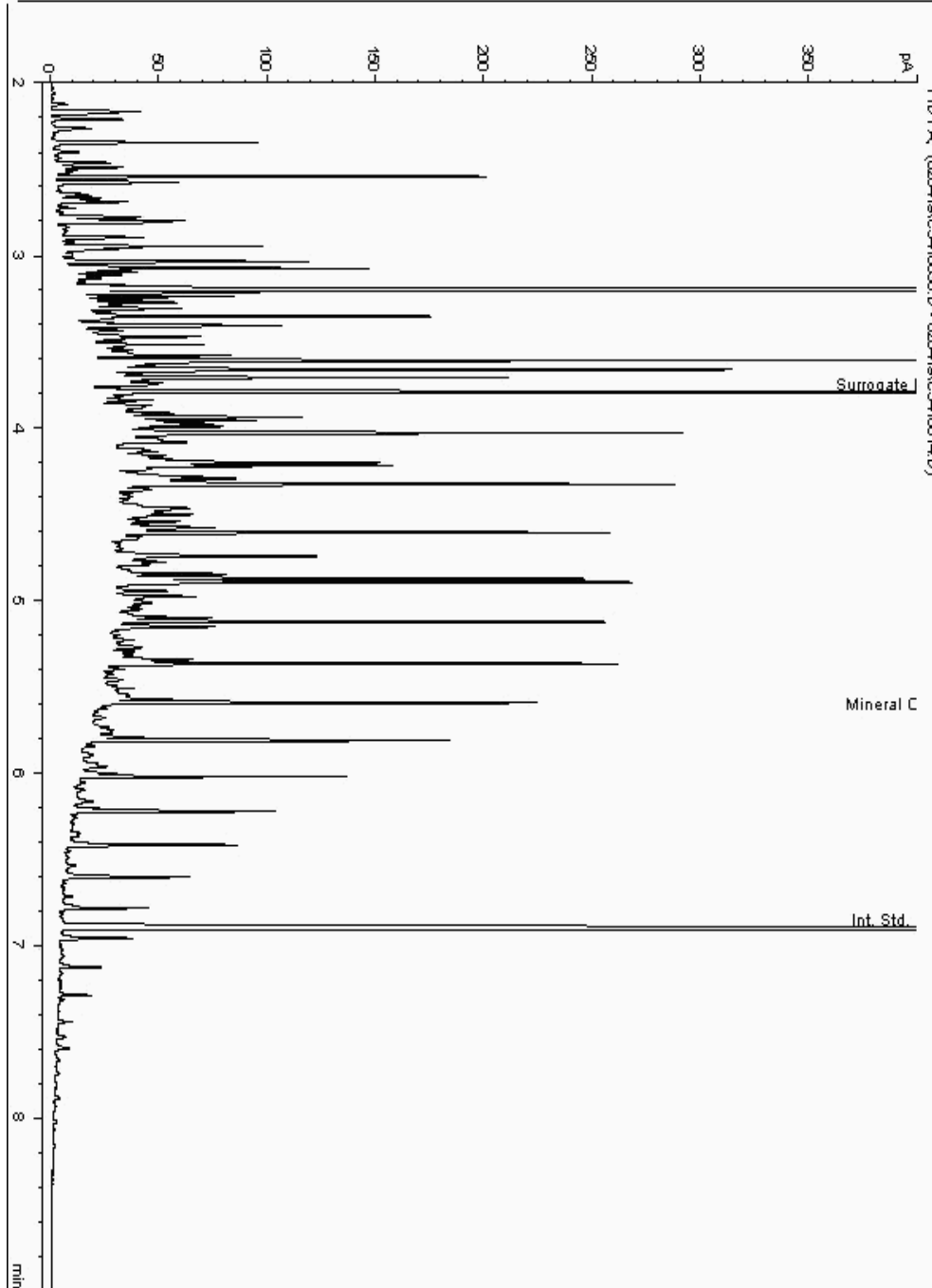
Analysis: Mineral Oil
19263272

Sample No :
Sample ID : BH245

19,263,272Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092777-
Date Acquired : 04/02/2019 20:33:36 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

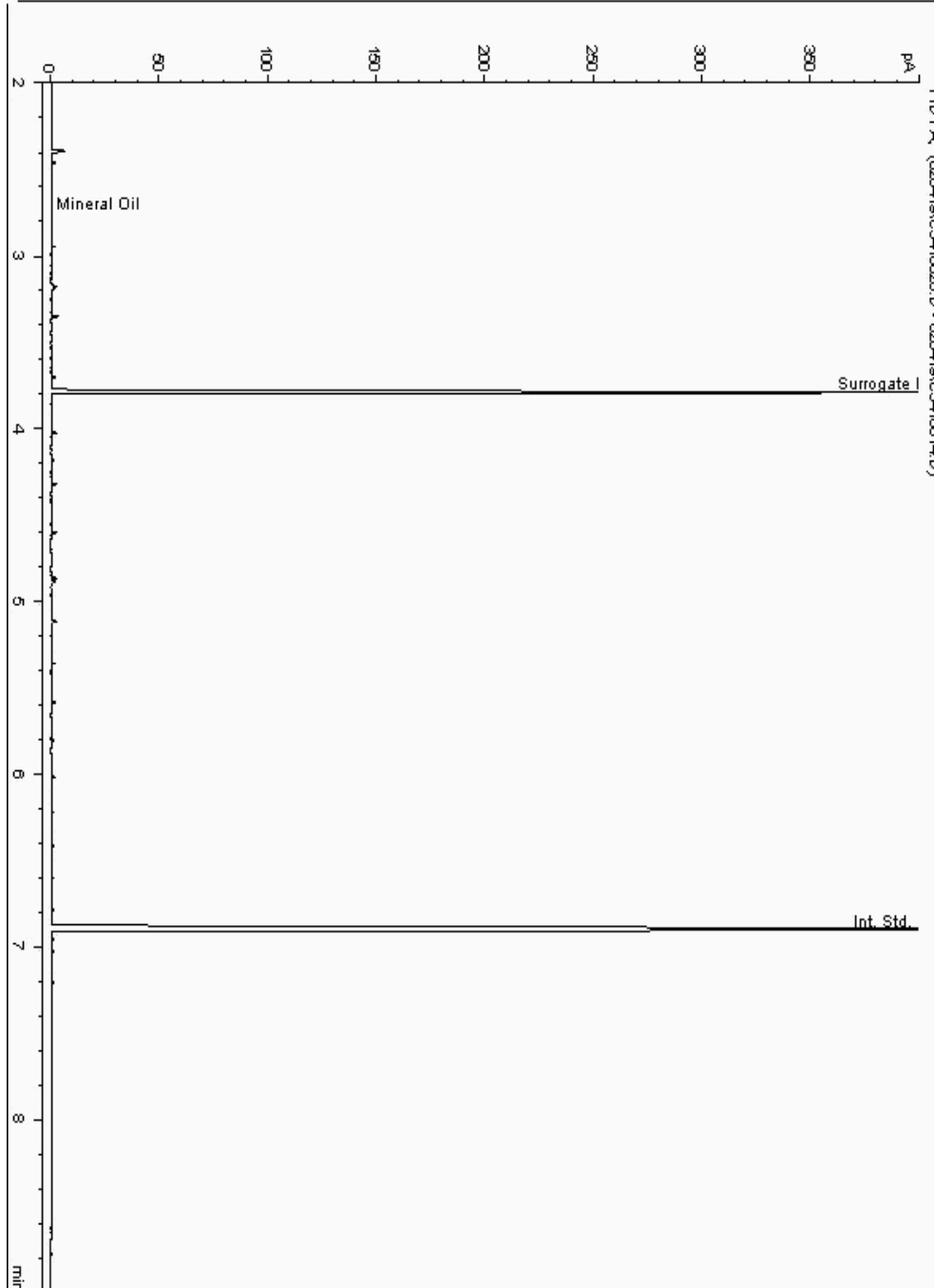
Analysis: Mineral Oil
19263349

Sample No :
Sample ID : BH245

19,263,349 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18093367-
Date Acquired : 04/02/2019 17:24:56 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

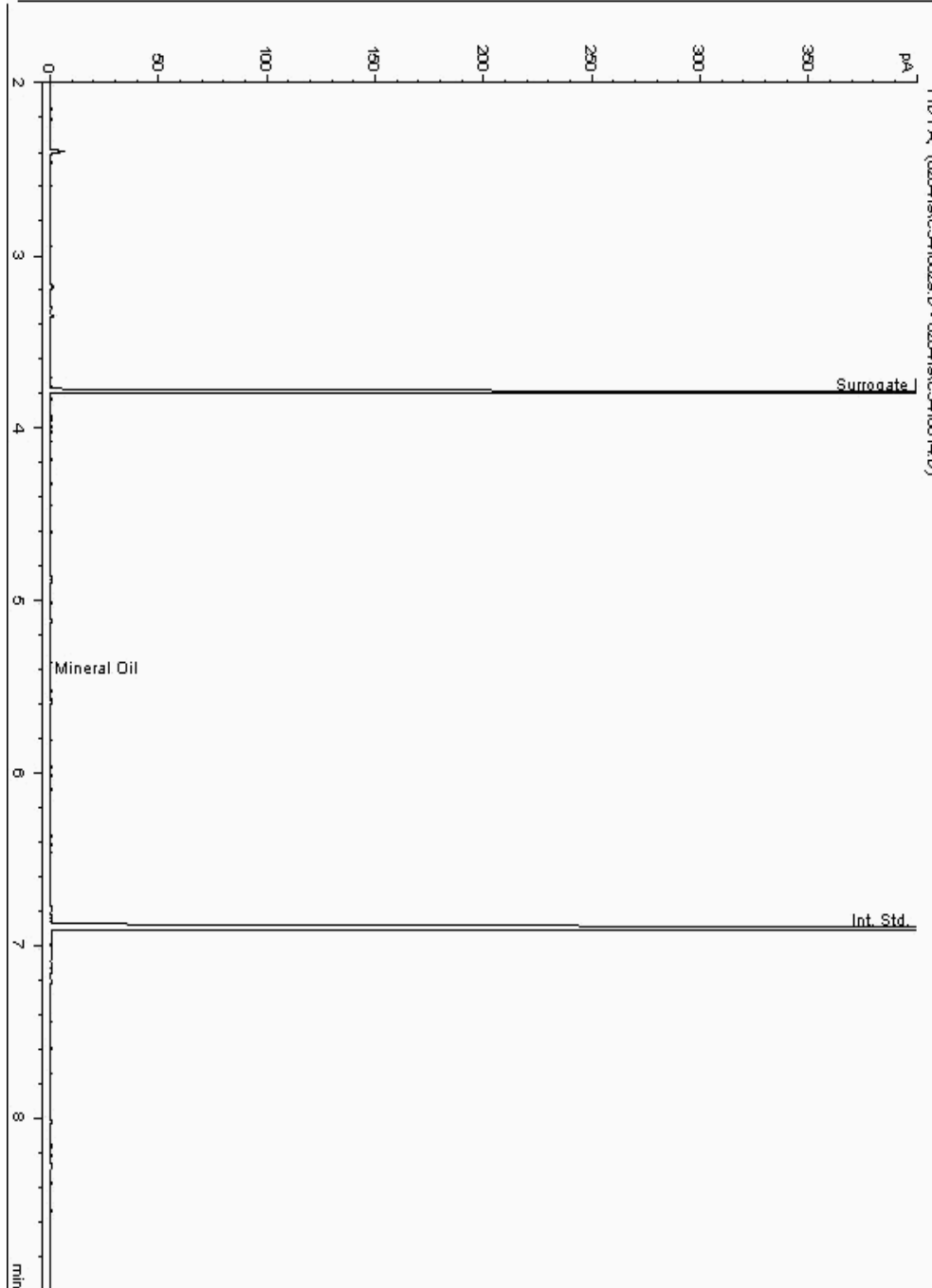
Analysis: Mineral Oil
19263369

Sample No :
Sample ID : BH246

19,263,369 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091083-
Date Acquired : 04/02/2019 20:13:04 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

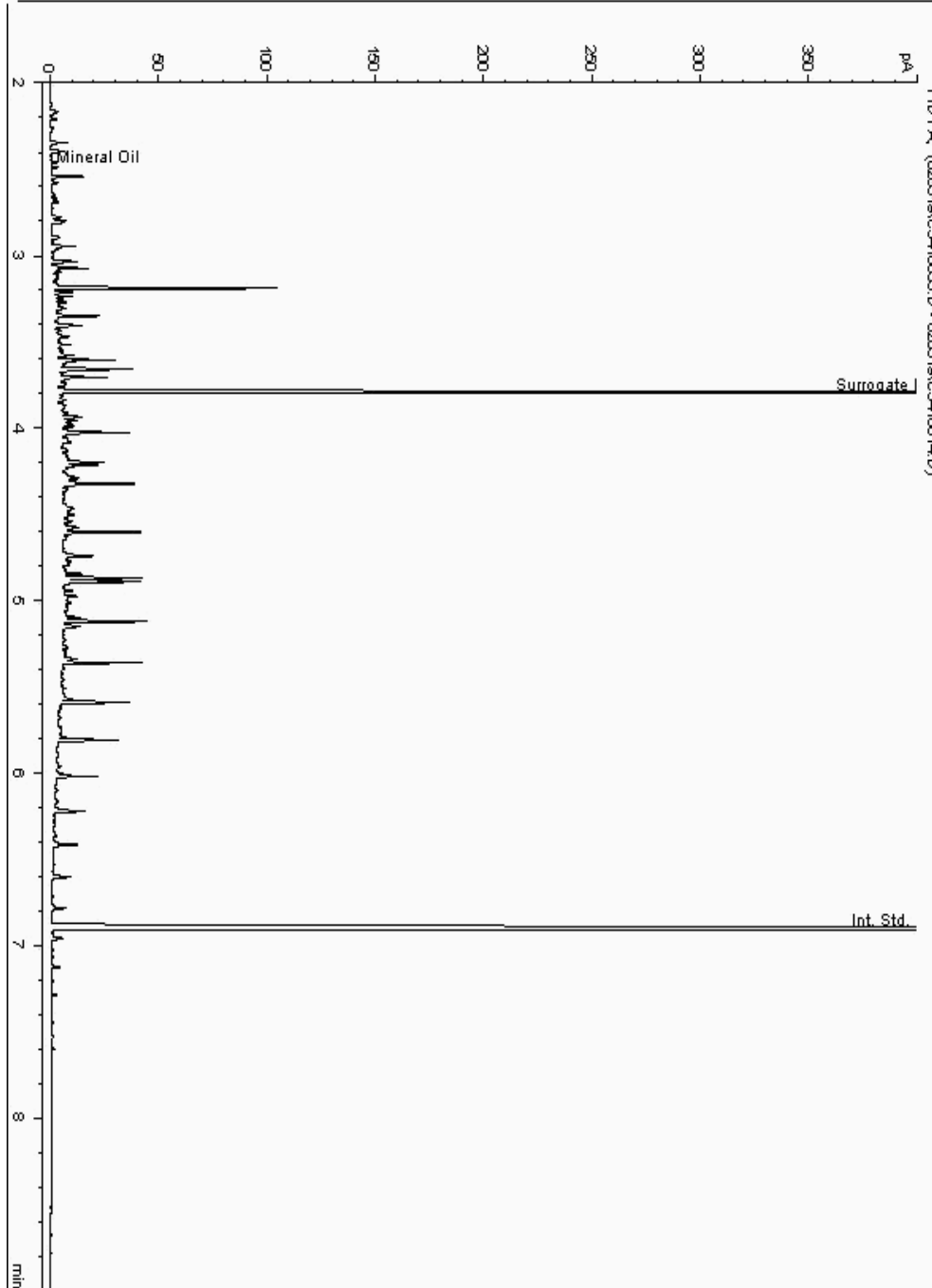
Analysis: Mineral Oil
19263437

Sample No :
Sample ID : BH244

19,263,437Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091889-
Date Acquired : 05/02/2019 17:10:38 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

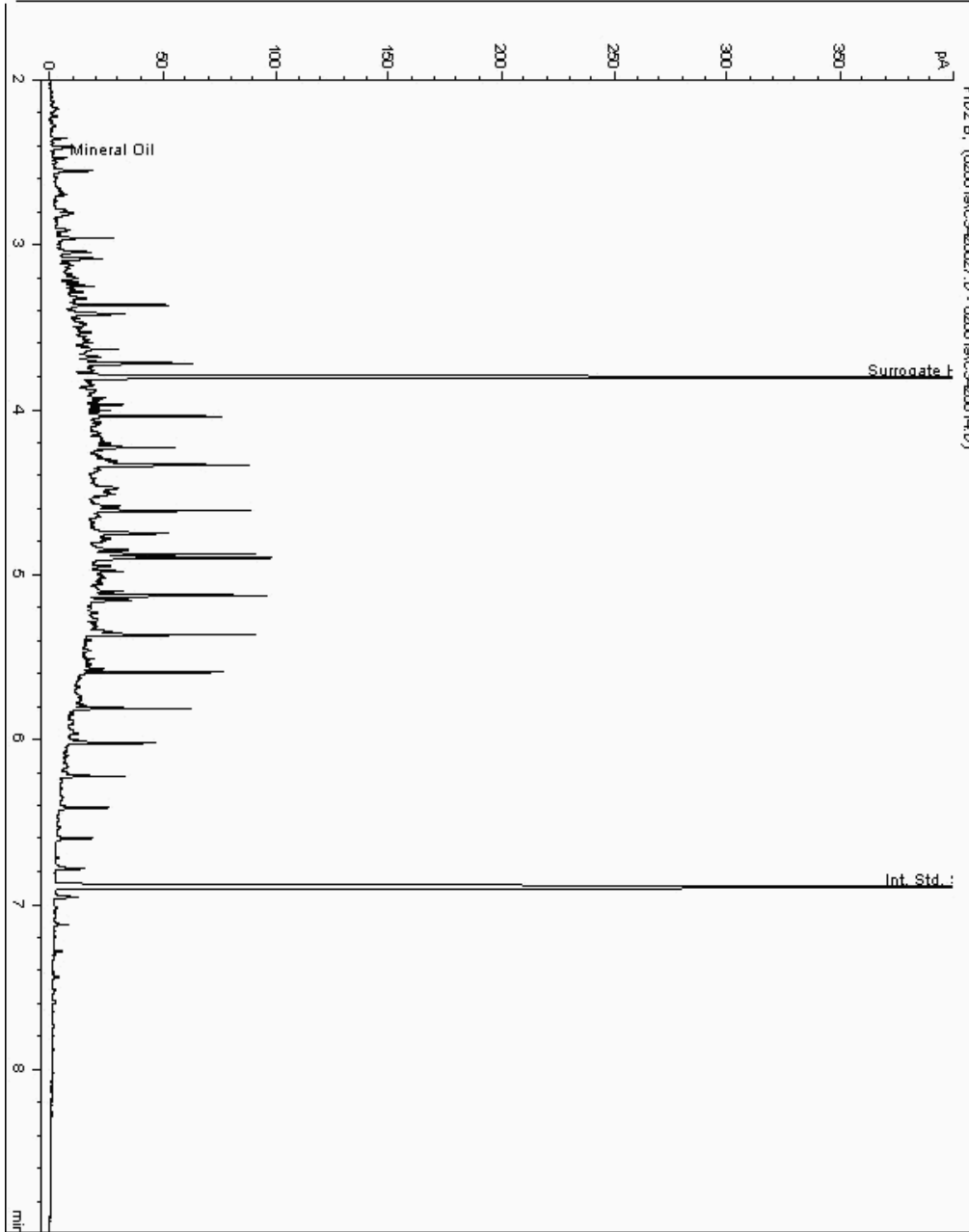
Analysis: Mineral Oil
19263447

Sample No :
Sample ID : BH244

19,263,447 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091944-
Date Acquired : 06/02/19 14:57:54 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

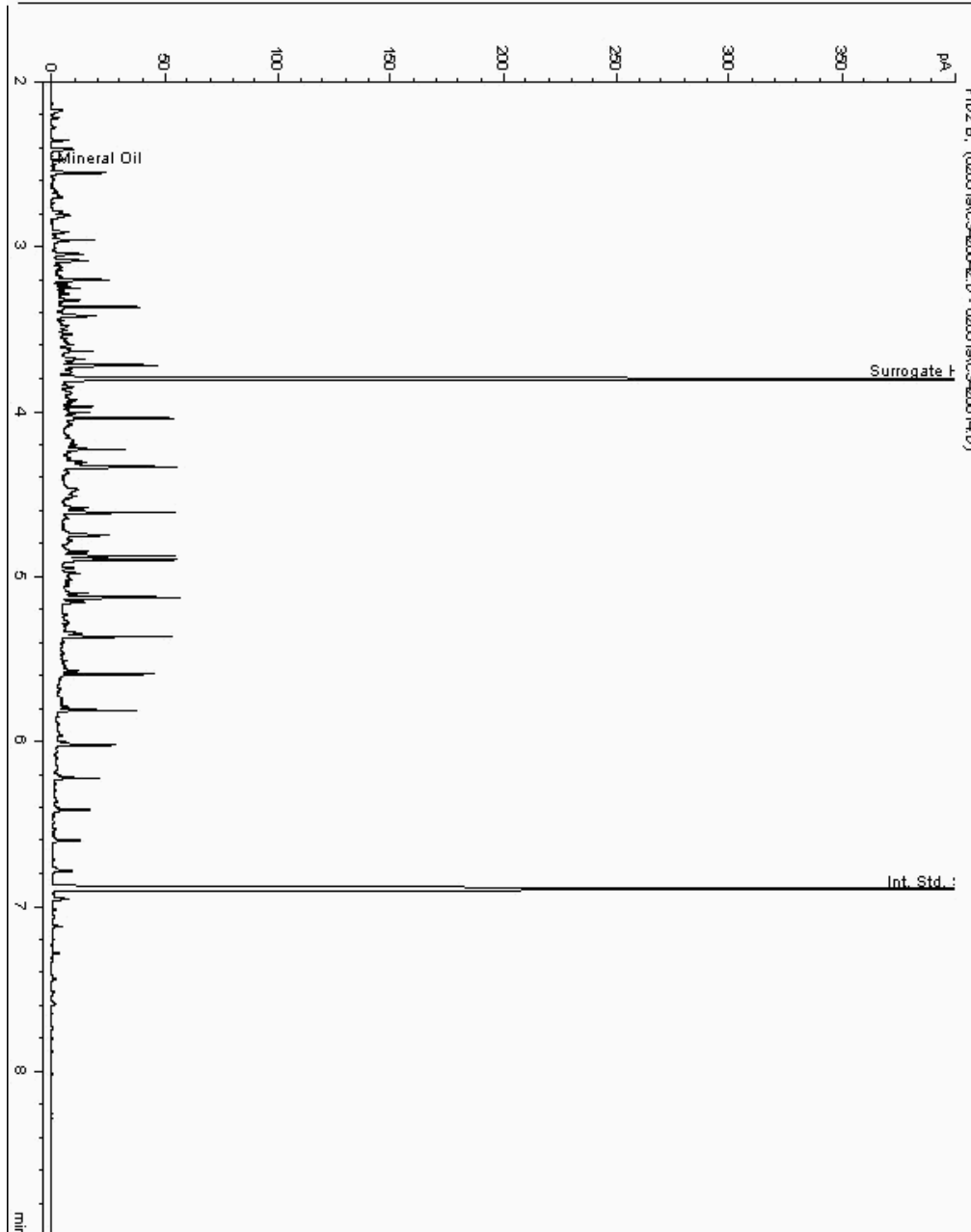
Analysis: Mineral Oil
19266259

Sample No :
Sample ID : BH245

19,266,259Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092988-
Date Acquired : 05/02/19 22:13:26 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

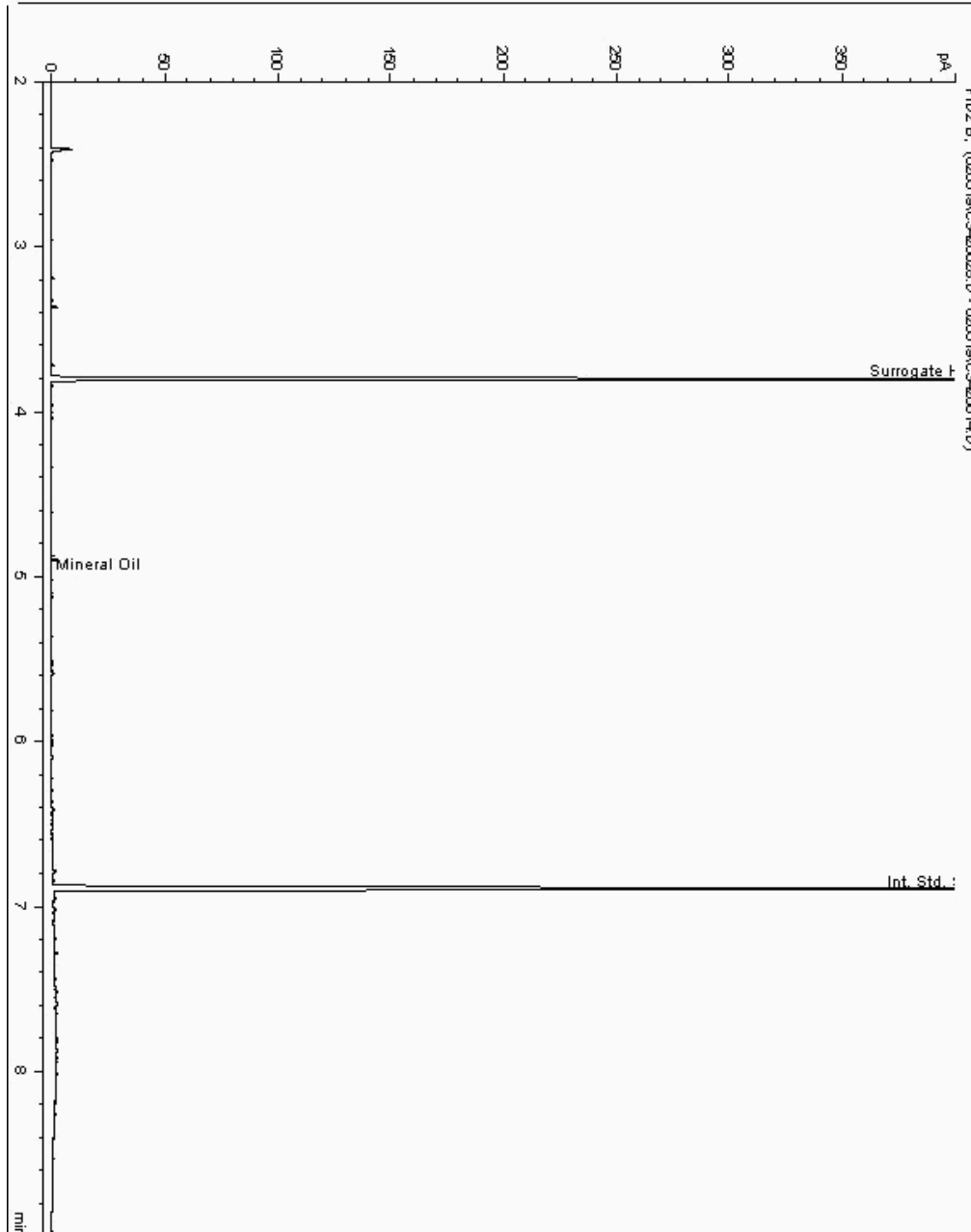
Analysis: Mineral Oil
19266514

Sample No :
Sample ID : BH244

19,266,514 Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091779-
Date Acquired : 05/02/19 18:10:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

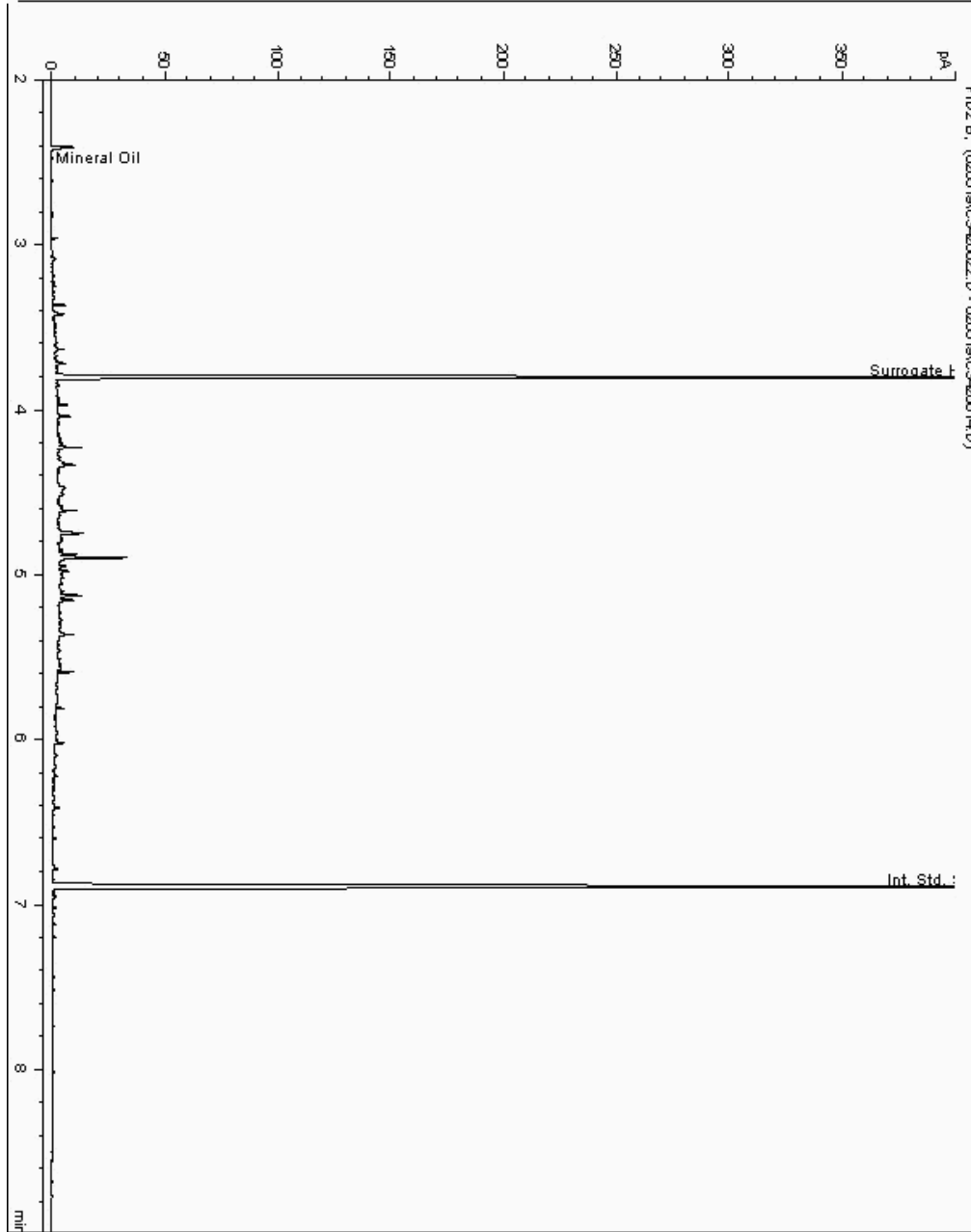
Analysis: Mineral Oil
19266667

Sample No :
Sample ID : BH244

19,266,667Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092107-
Date Acquired : 05/02/19 16:34:24 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

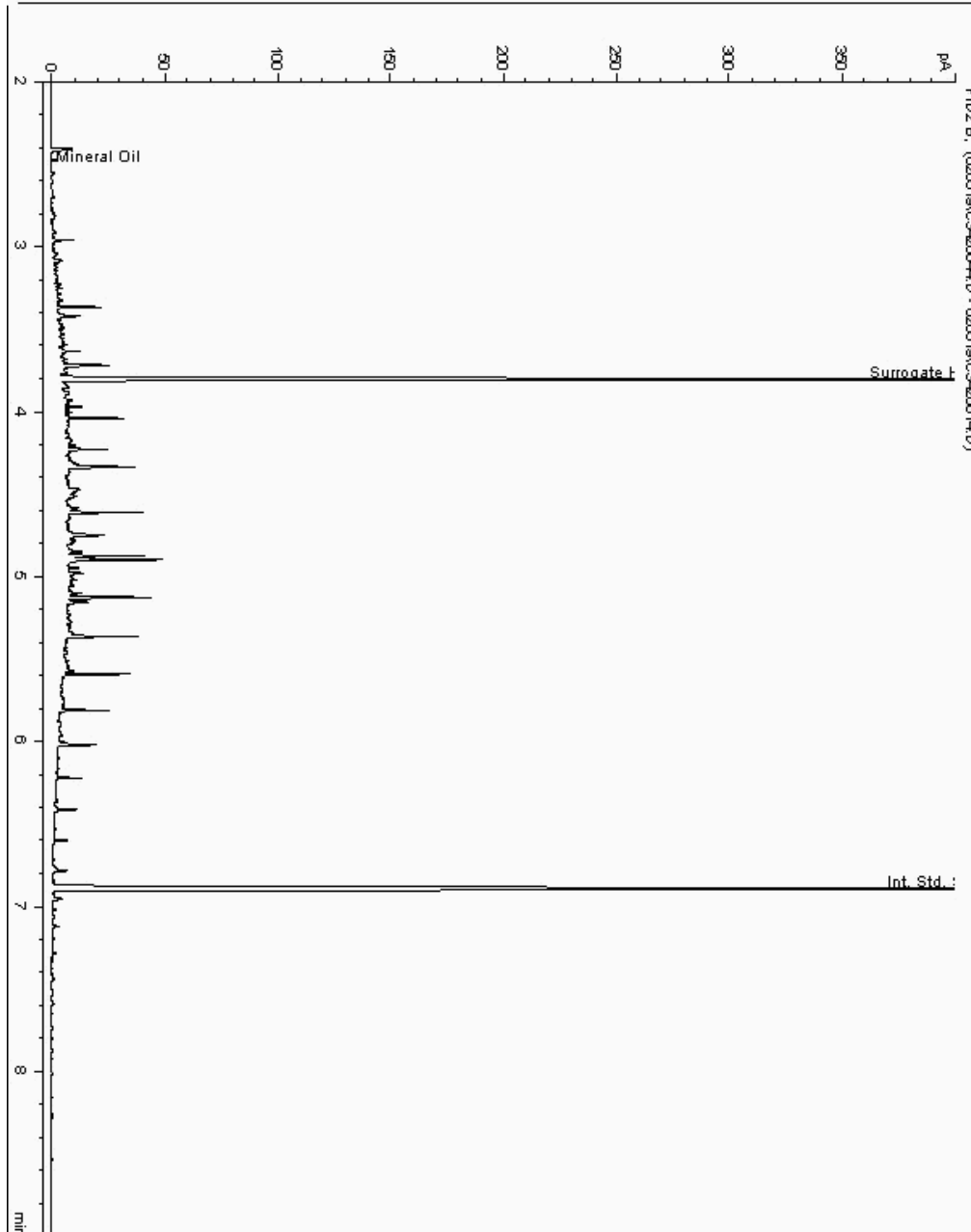
Analysis: Mineral Oil
19266869

Sample No :
Sample ID : BH244

19,266,869Depth :7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092025-
Date Acquired : 05/02/19 22:45:30 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

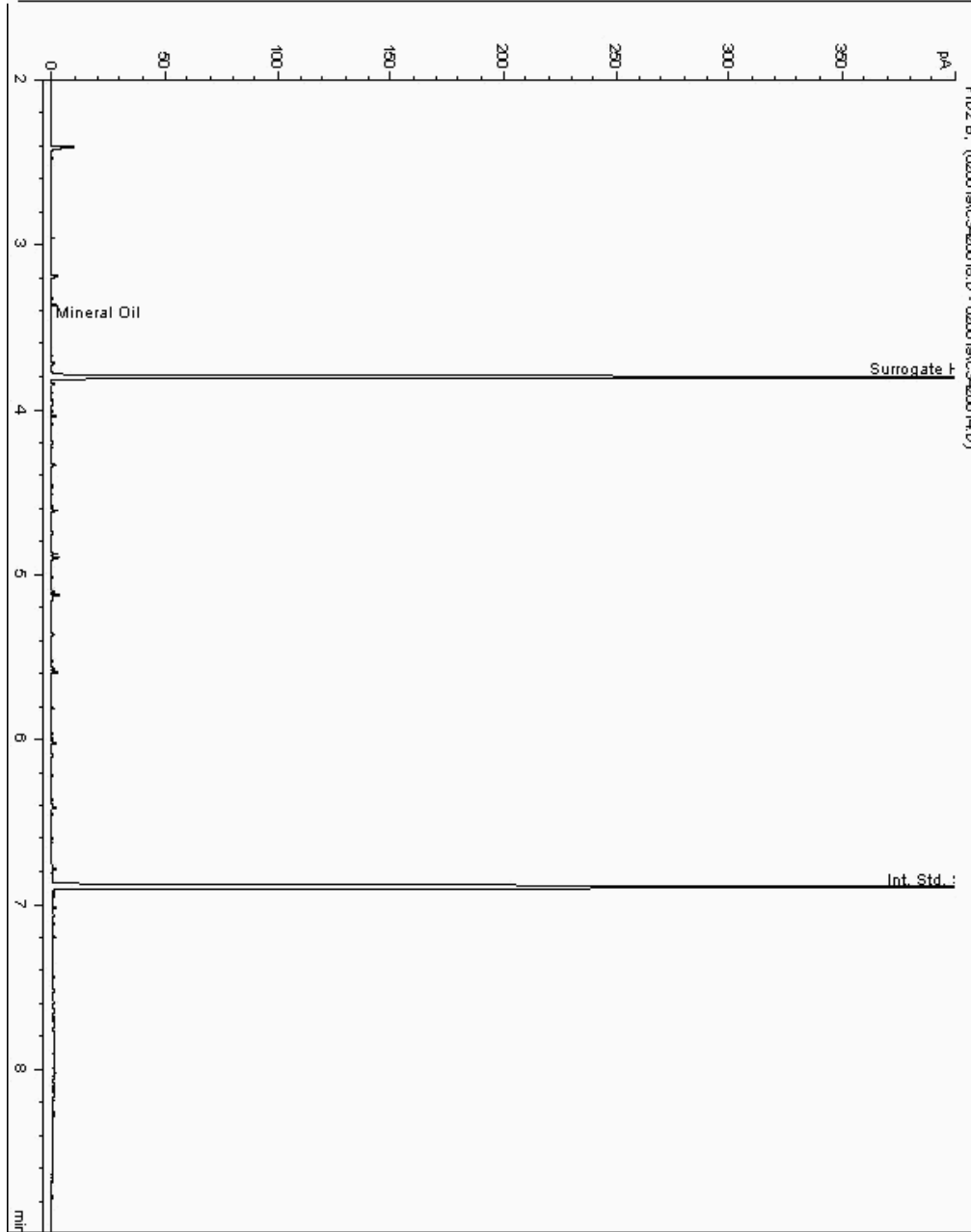
Analysis: Mineral Oil
19266971

Sample No :
Sample ID : BH244

19,266,971 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092354-
Date Acquired : 06/02/19 12:11:06 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

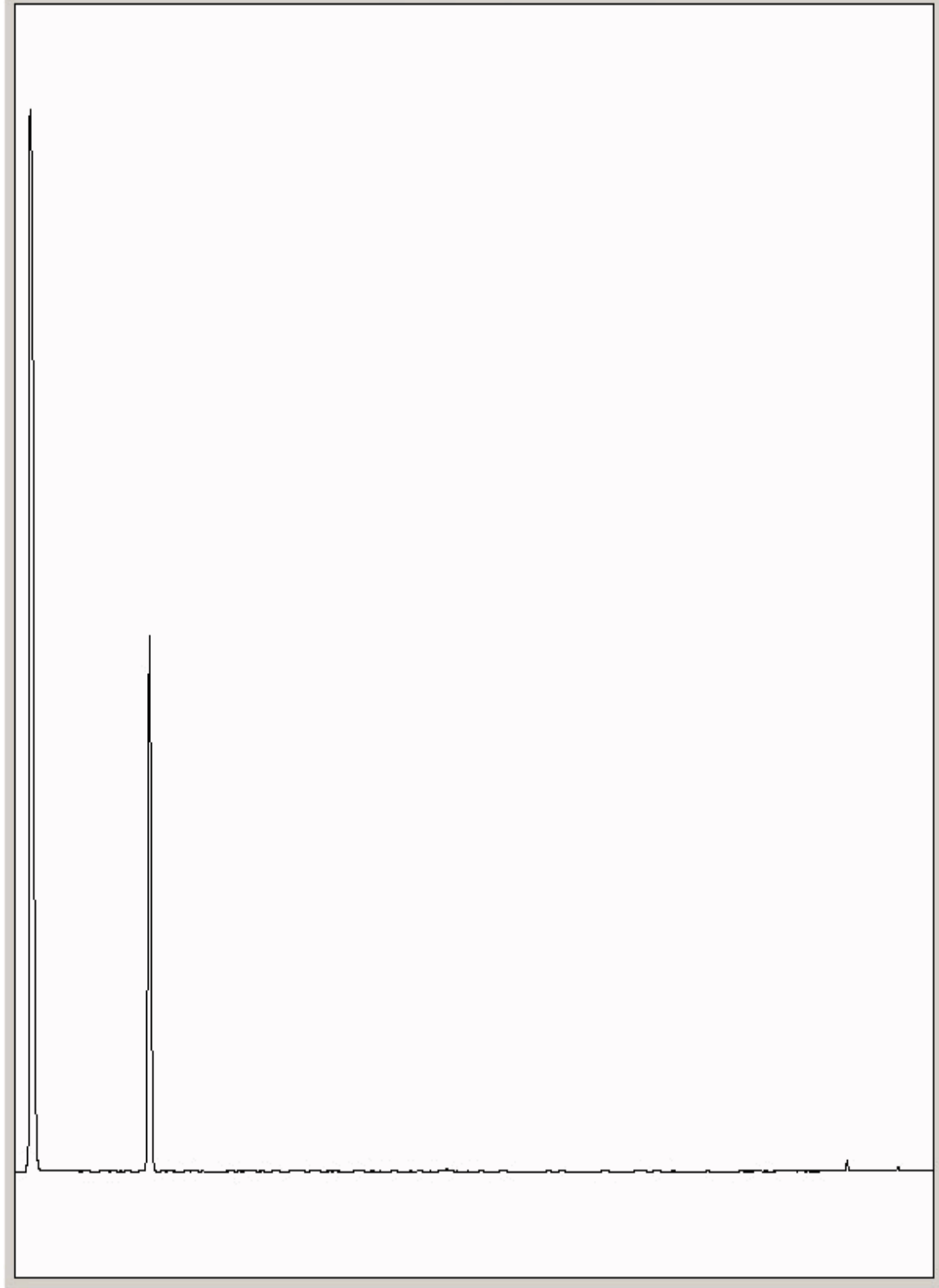
Chromatogram

Analysis: GRO by GC-FID (S)
19279083

Sample No :
Sample ID : BH244

19,279,083 **Depth :** 0.00 - 0.50

19279083_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

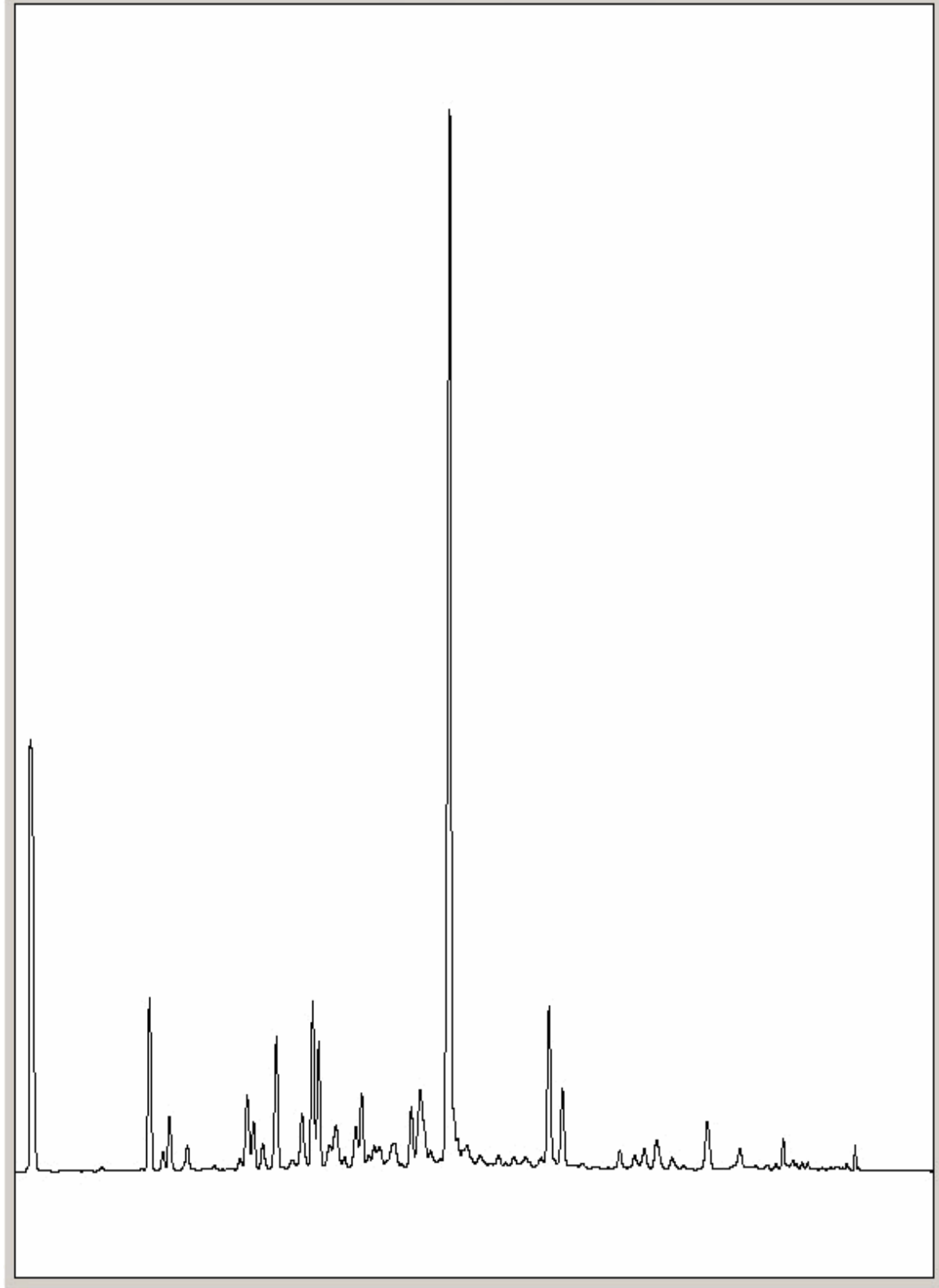
Chromatogram

Analysis: GRO by GC-FID (S)
19279144

Sample No :
Sample ID : BH244

19,279,144Depth :5.00 - 6.00

19279144_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

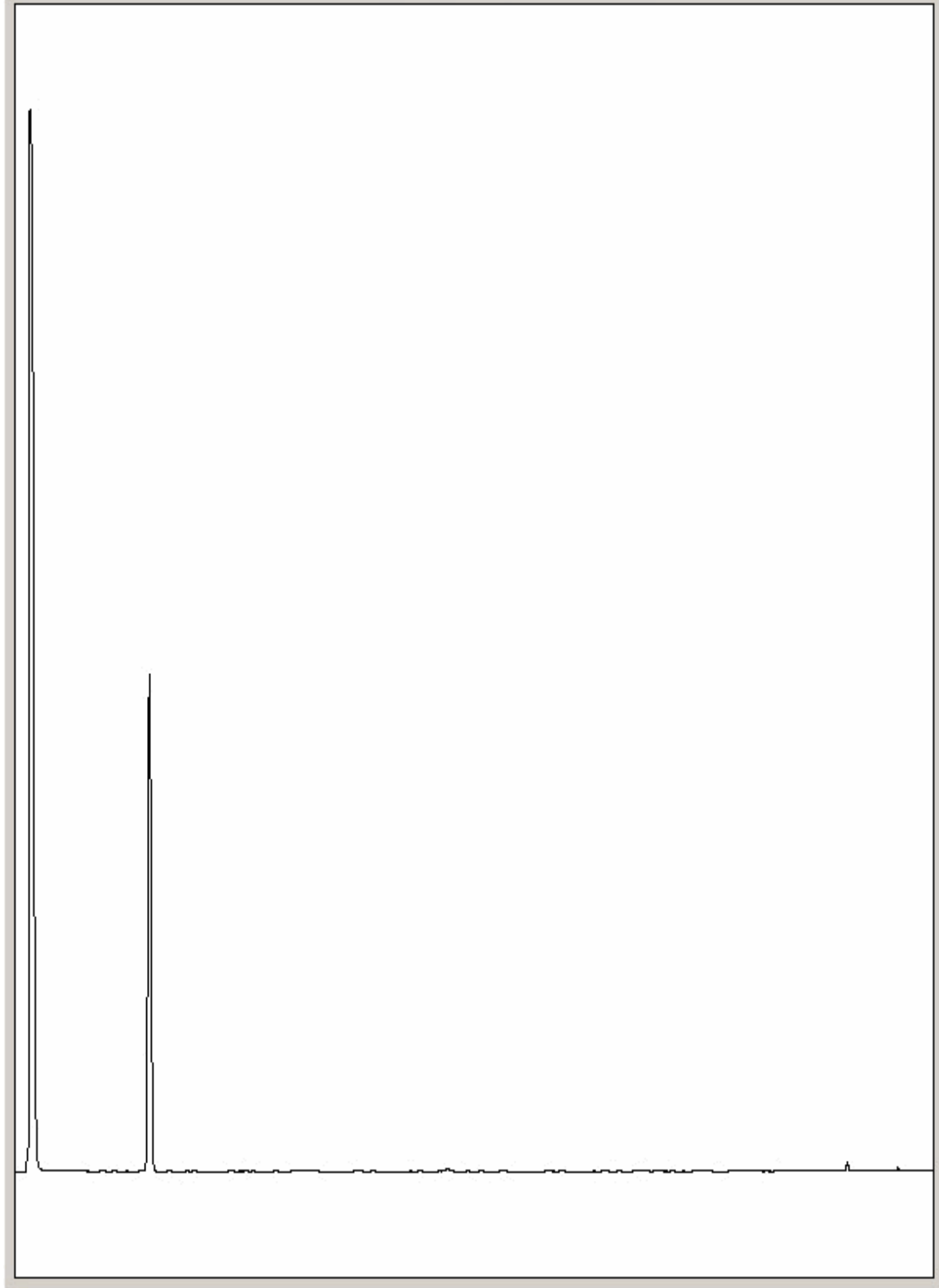
Chromatogram

Analysis: GRO by GC-FID (S)
19279158

Sample No :
Sample ID : BH244

19,279,158Depth :3.00 - 4.00

19279158_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

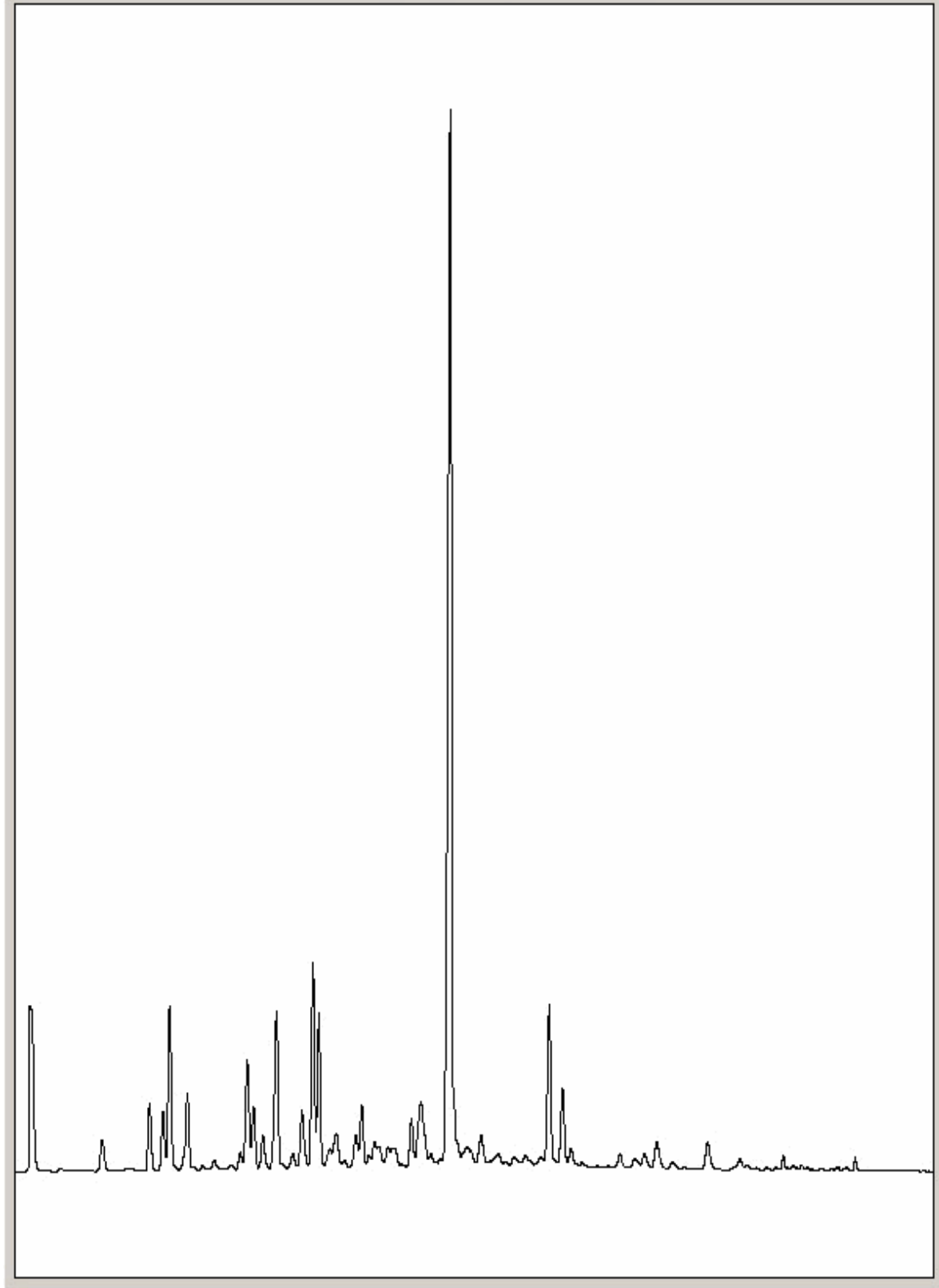
Chromatogram

Analysis: GRO by GC-FID (S)
19279176

Sample No :
Sample ID : BH245

19,279,176 **Depth :** 3.00 - 4.00

19279176_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

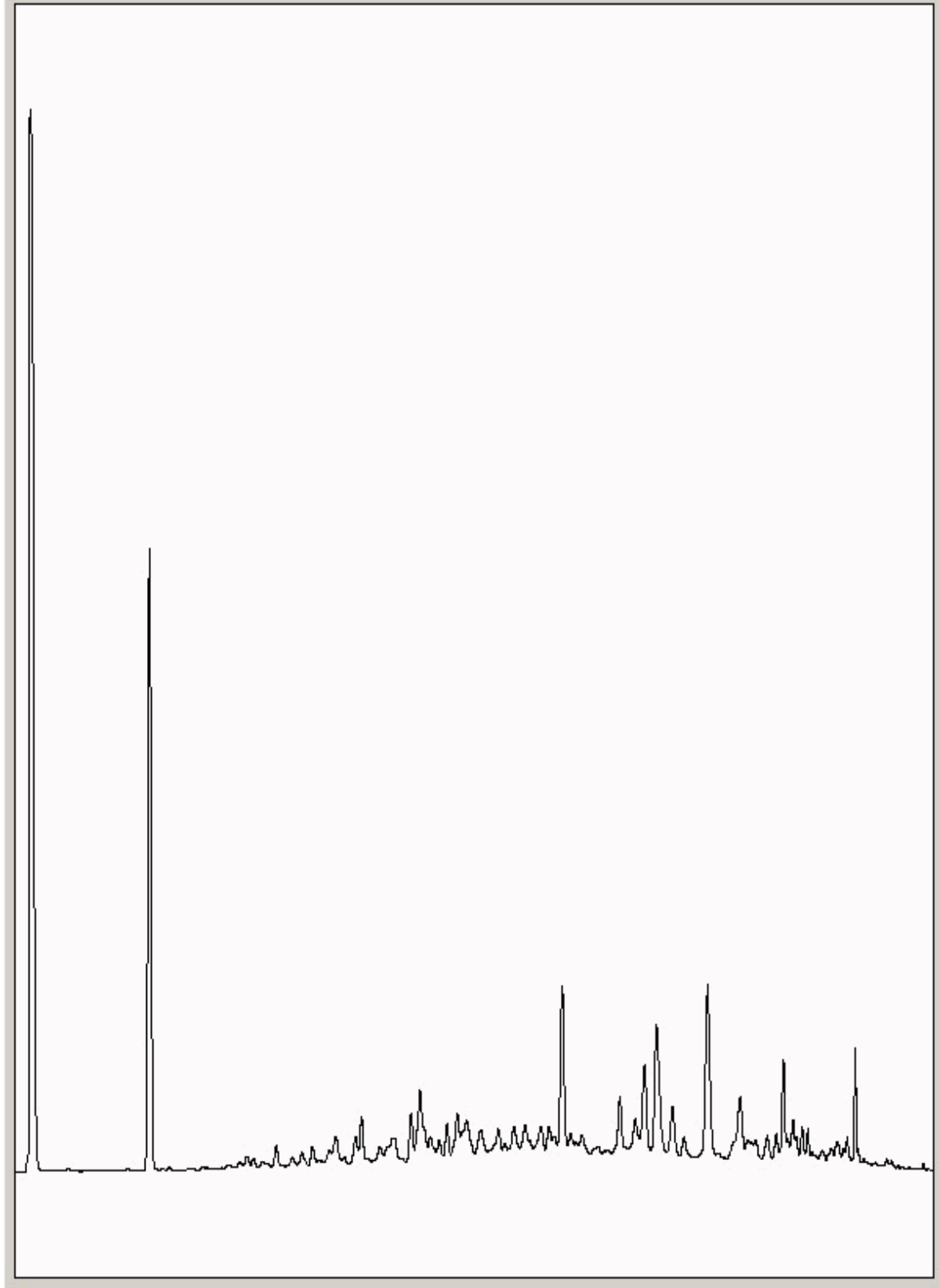
Chromatogram

Analysis: GRO by GC-FID (S)
19279221

Sample No :
Sample ID : BH244

19,279,221 **Depth :** 7.00 - 8.00

19279221_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

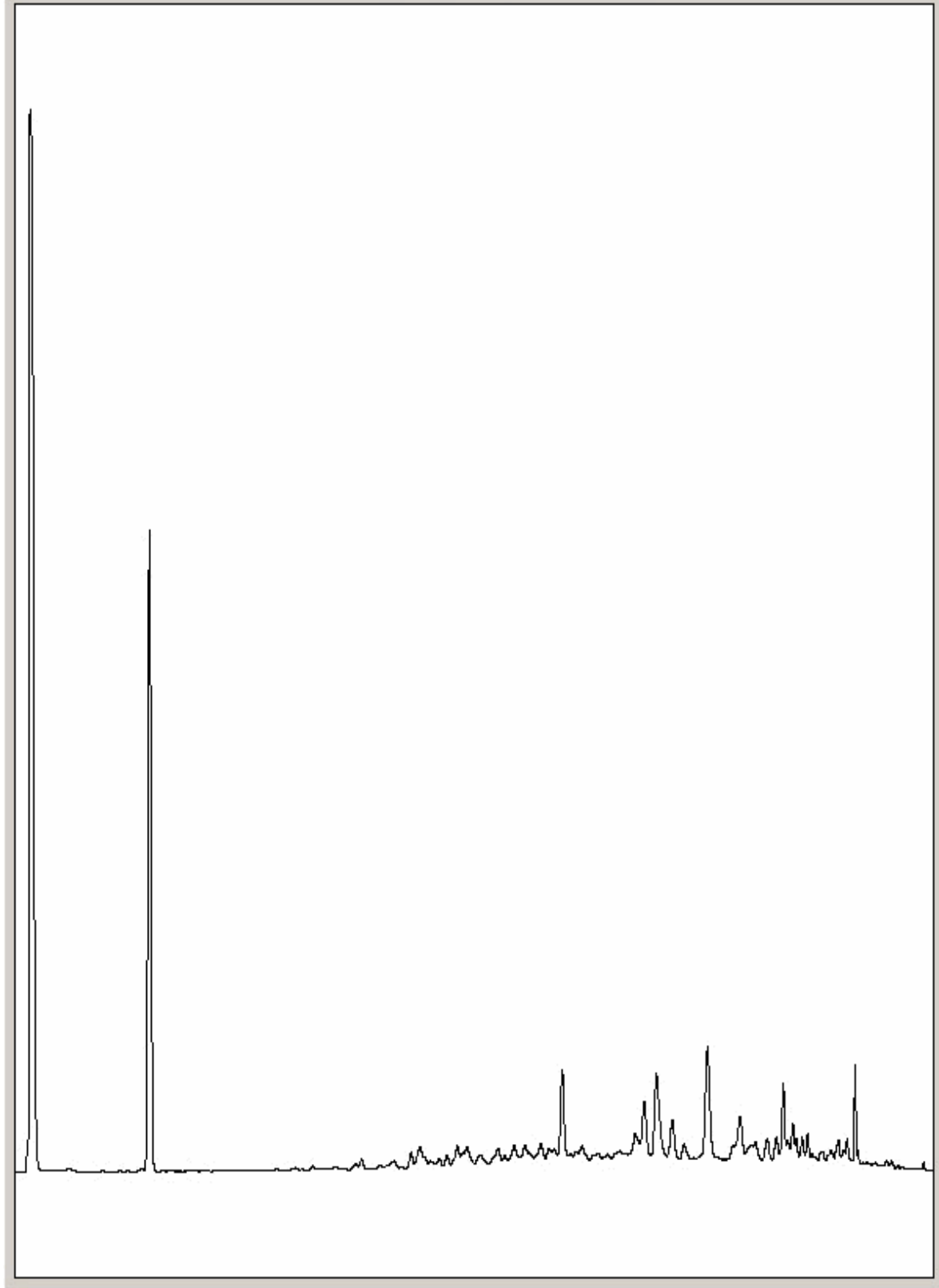
Chromatogram

Analysis: GRO by GC-FID (S)
19279803

Sample No :
Sample ID : BH244

19,279,803 **Depth :** 8.00 - 9.00

19279803_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

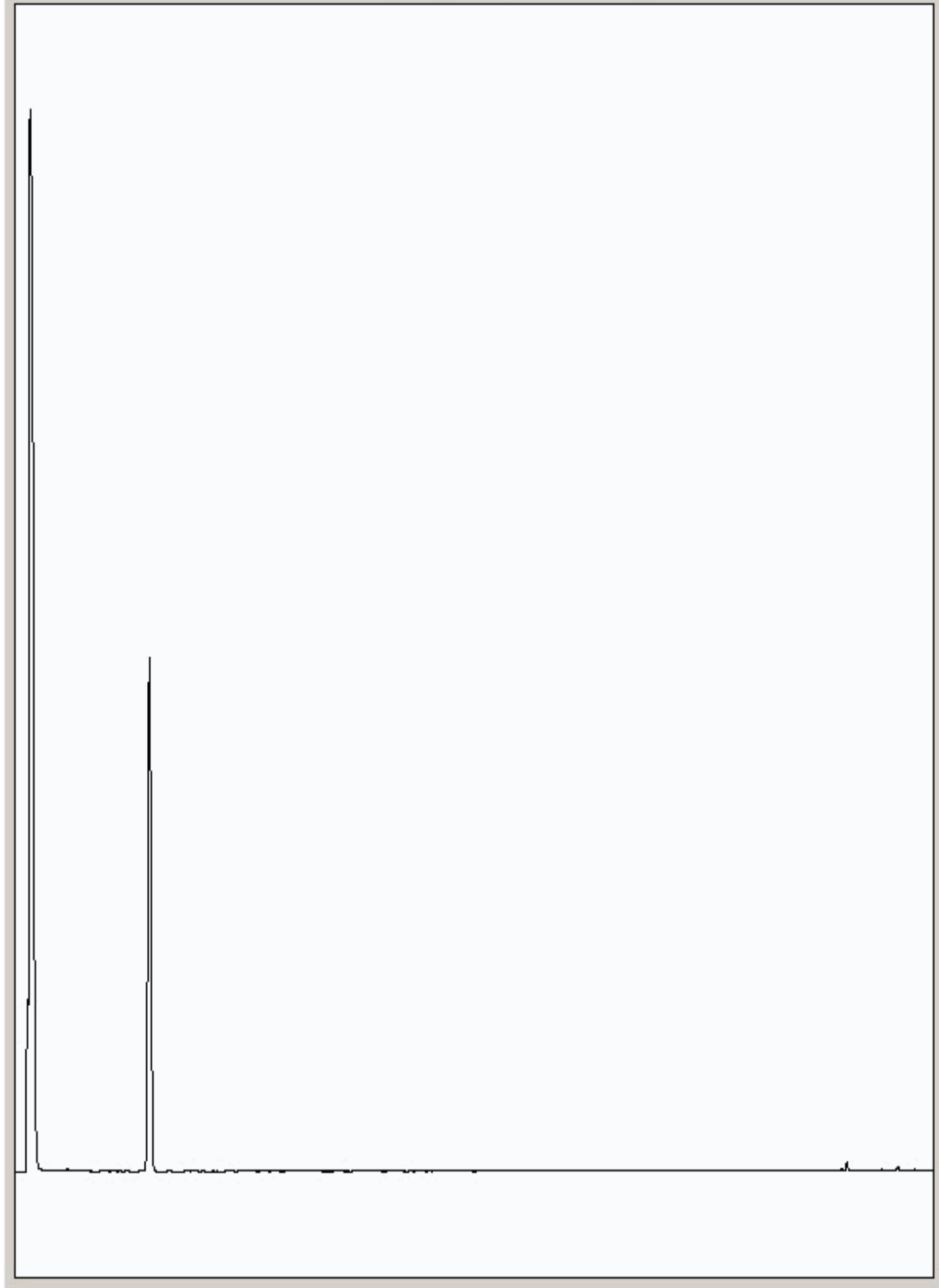
Chromatogram

Analysis: GRO by GC-FID (S)
19279819

Sample No :
Sample ID : BH244

19,279,819 **Depth :** 2.00 - 3.00

19279819_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

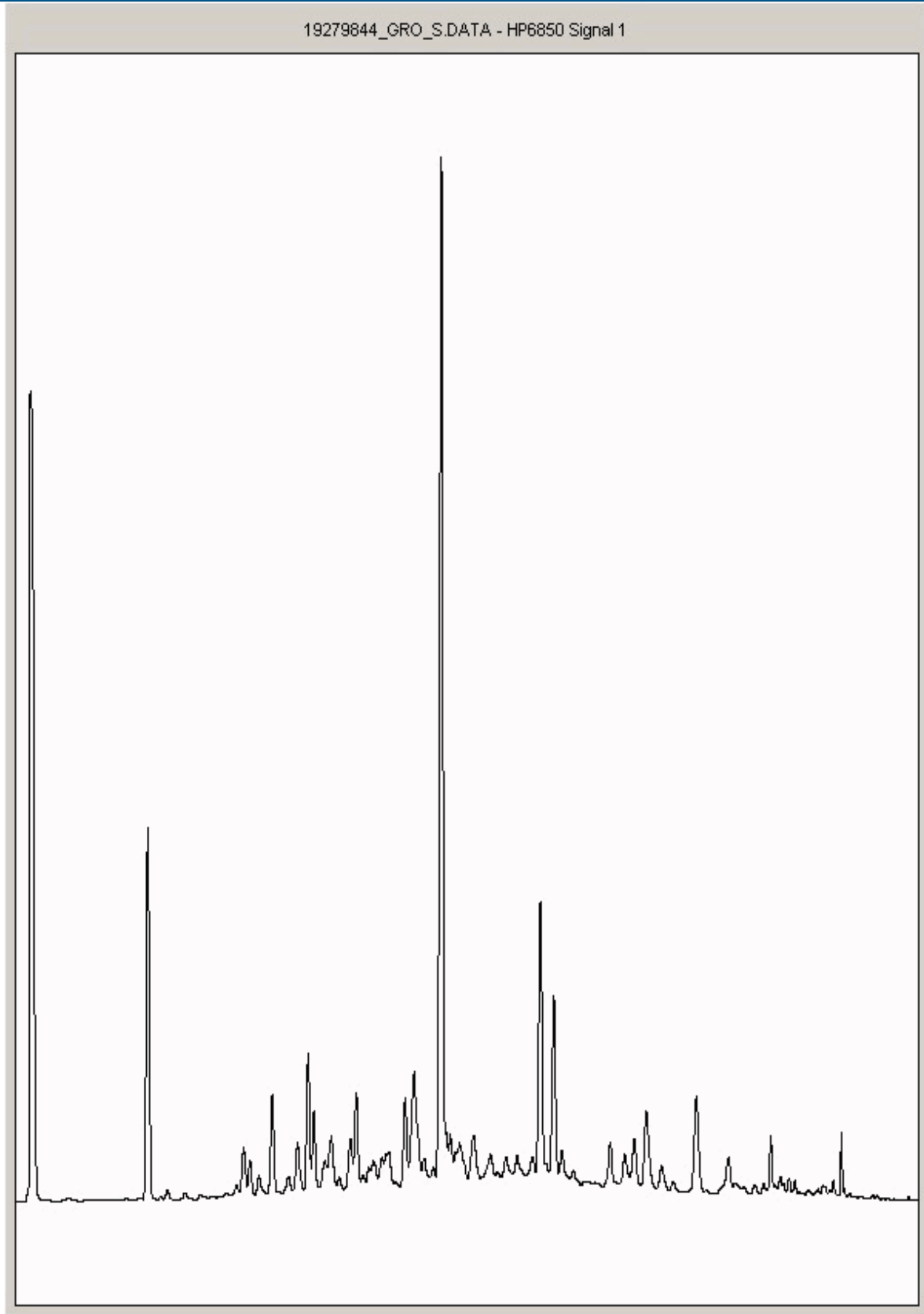
Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19279844

Sample No :
Sample ID : BH244

19,279,844**Depth :** 6.00 - 7.00





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

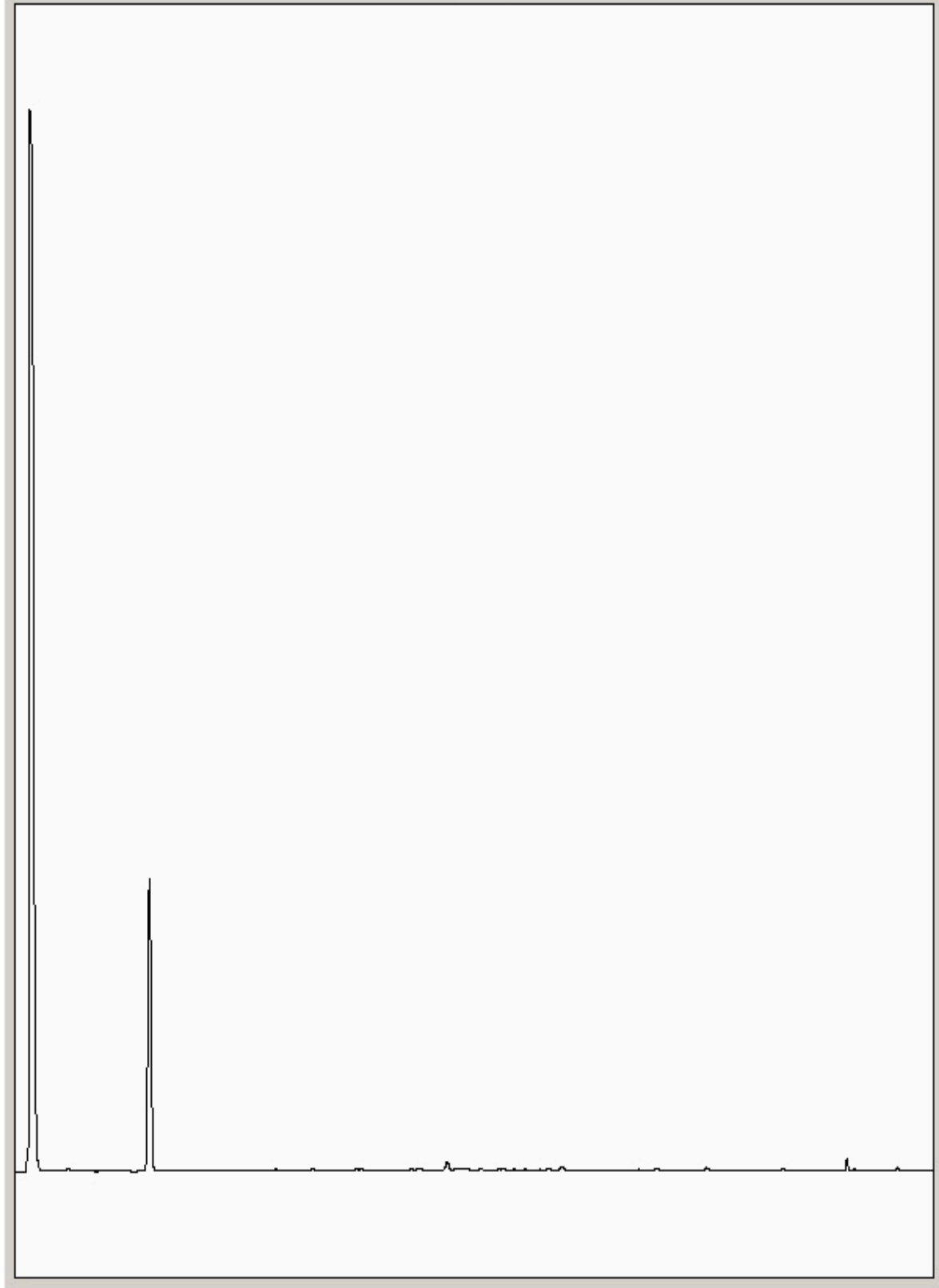
Chromatogram

Analysis: GRO by GC-FID (S)
19279869

Sample No :
Sample ID : BH244

19,279,869 **Depth :** 14.00 - 15.00

19279869_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

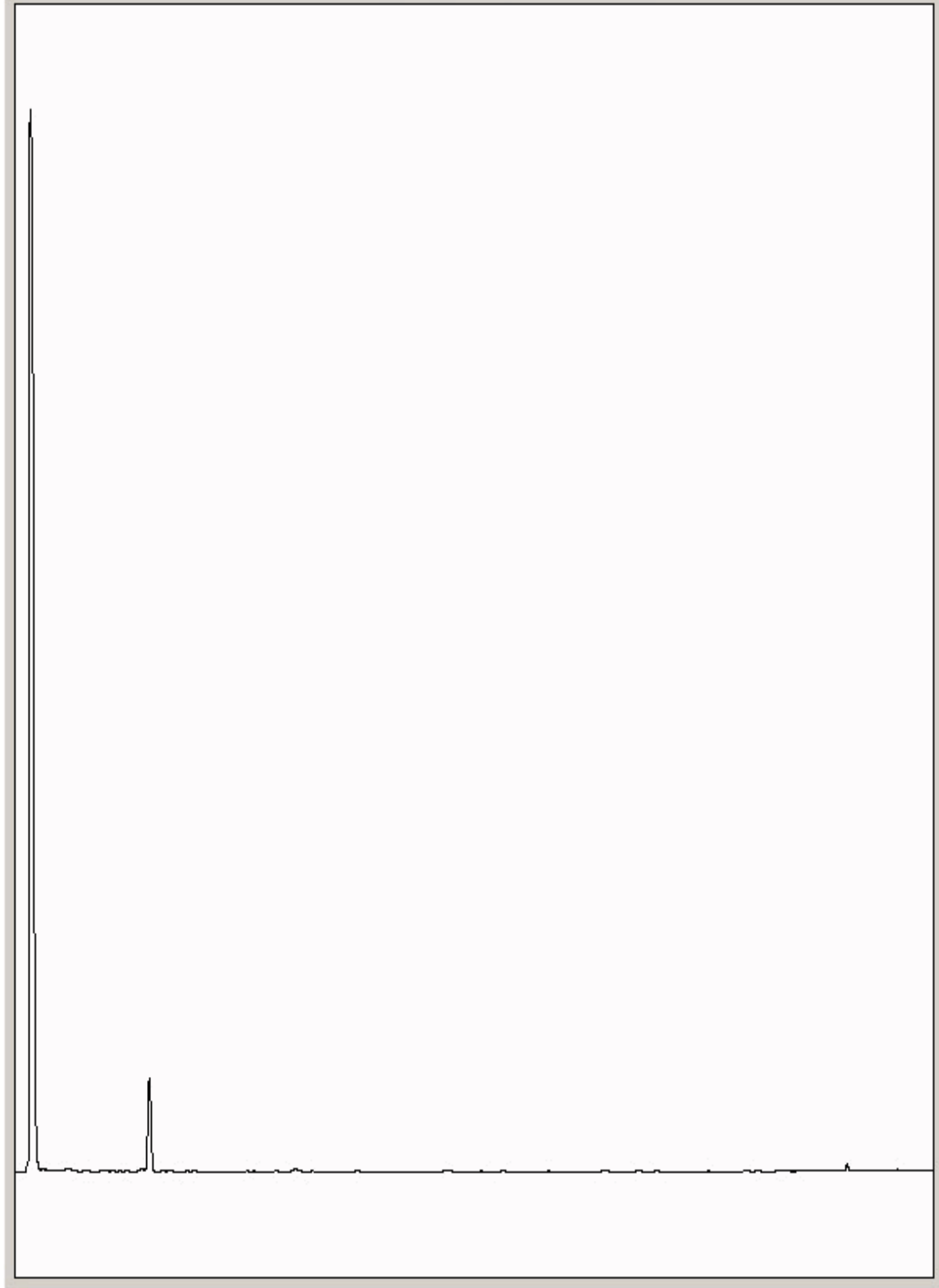
Chromatogram

Analysis: GRO by GC-FID (S)
19279905

Sample No :
Sample ID : BH245

19,279,905 **Depth :** 15.00 - 16.00

19279905_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

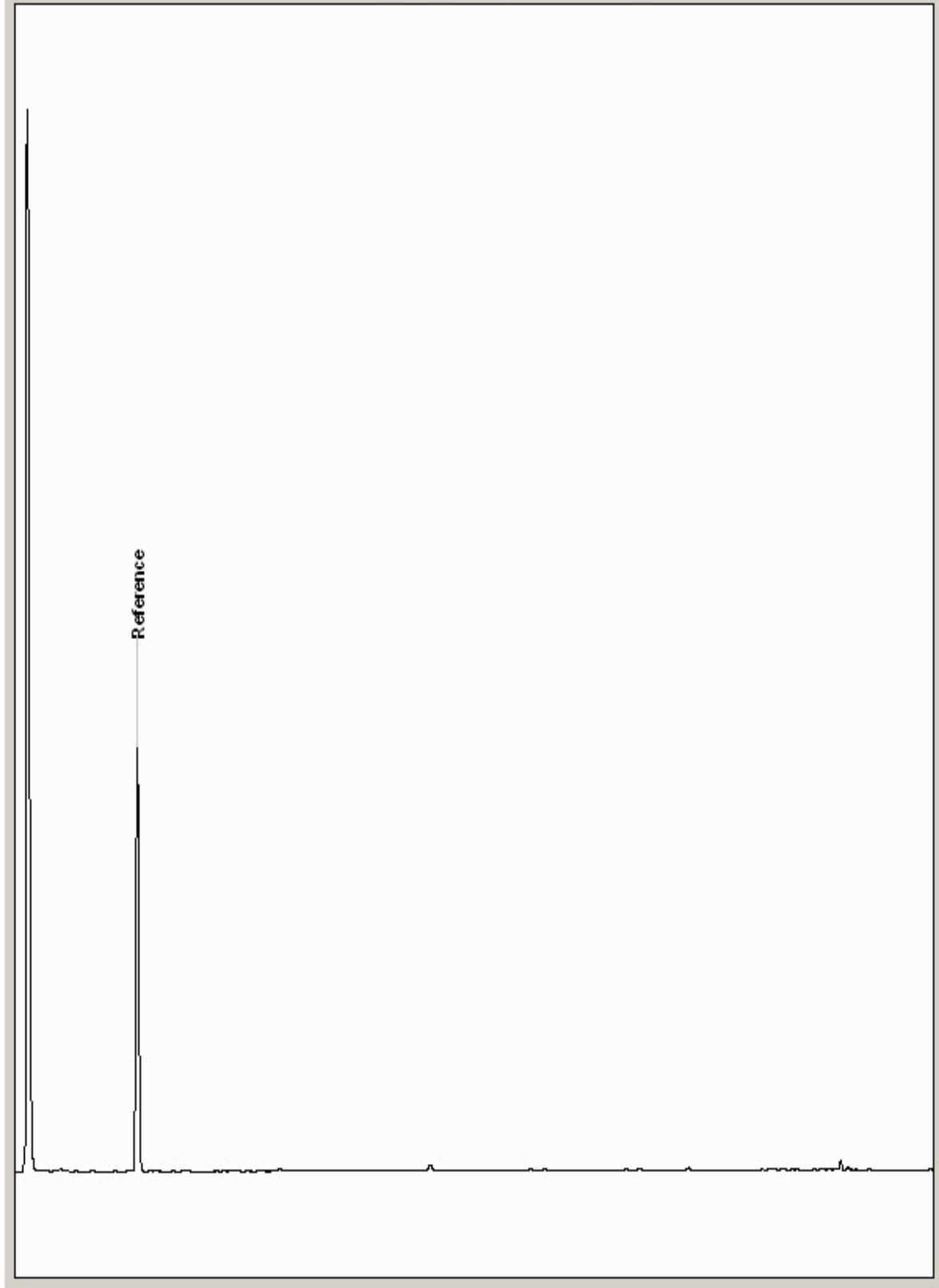
Chromatogram

Analysis: GRO by GC-FID (S)
19280685

Sample No :
Sample ID : BH245

19,280,685Depth :9.00 - 10.00

19280685_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

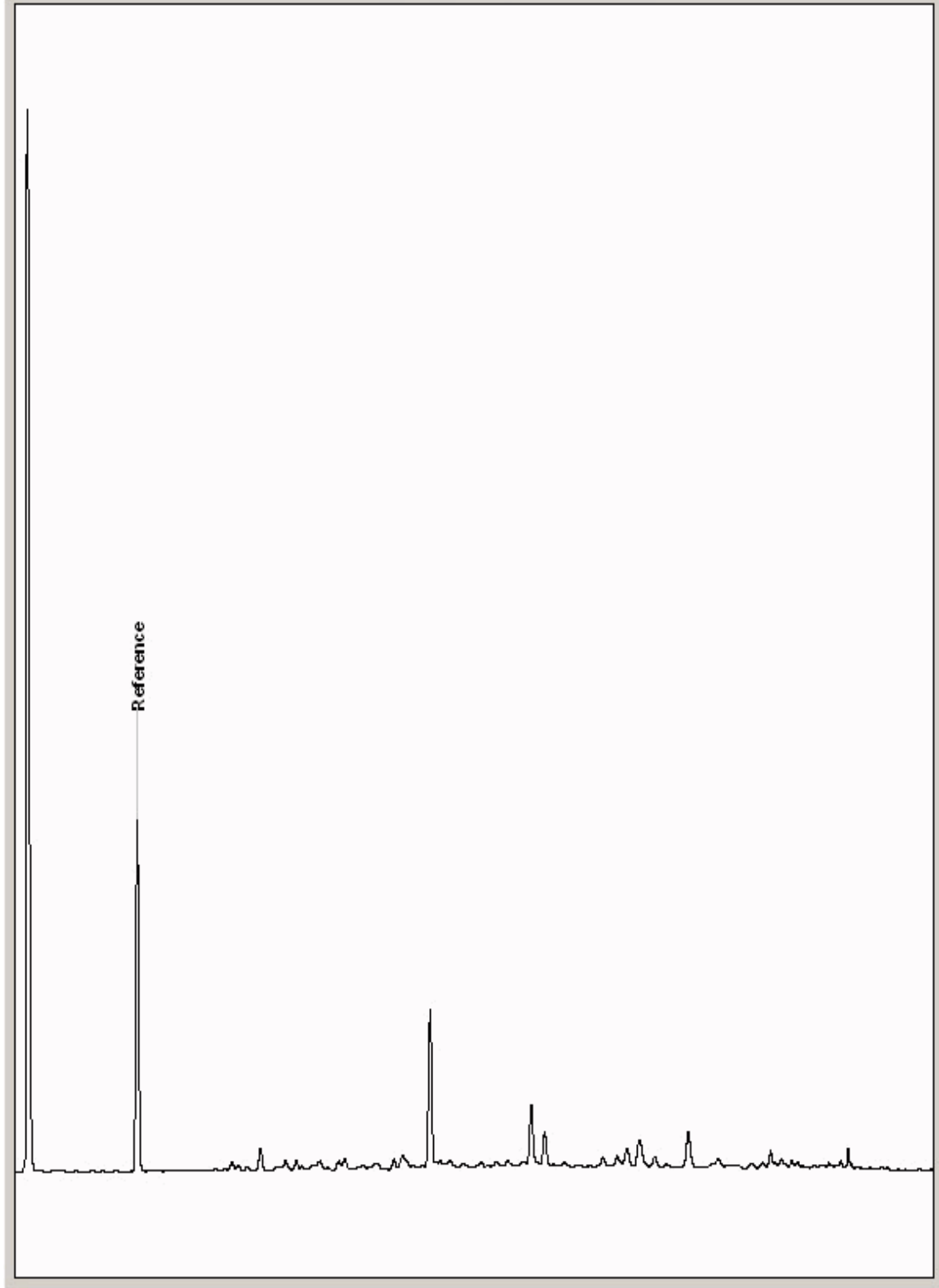
Chromatogram

Analysis: GRO by GC-FID (S)
19280714

Sample No :
Sample ID : BH245

19,280,714 Depth : 0.50 - 1.00

19280714_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

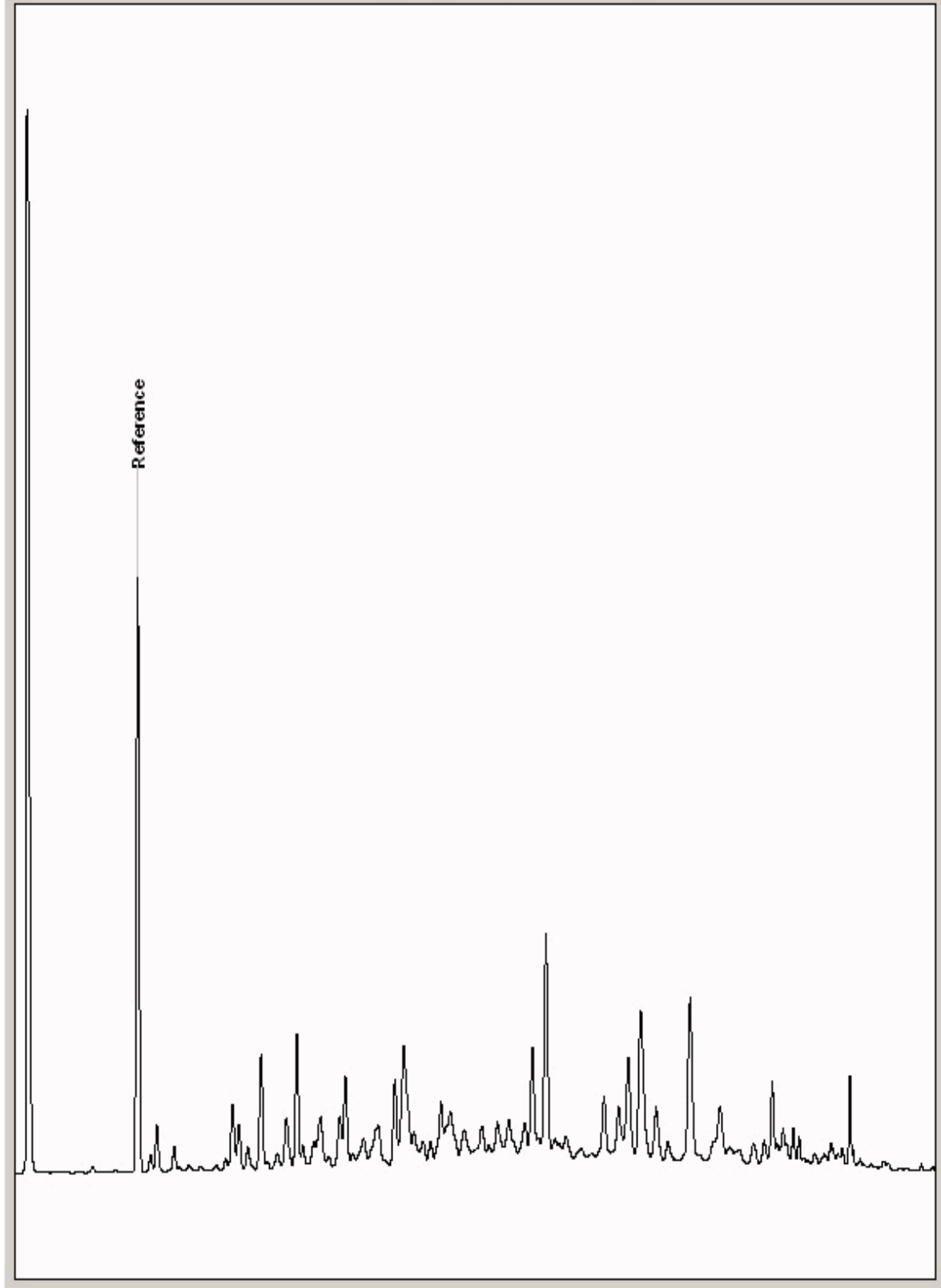
Chromatogram

Analysis: GRO by GC-FID (S)
19288175

Sample No :
Sample ID : BH245

19,288,175Depth :3.00 - 4.00

19288175_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

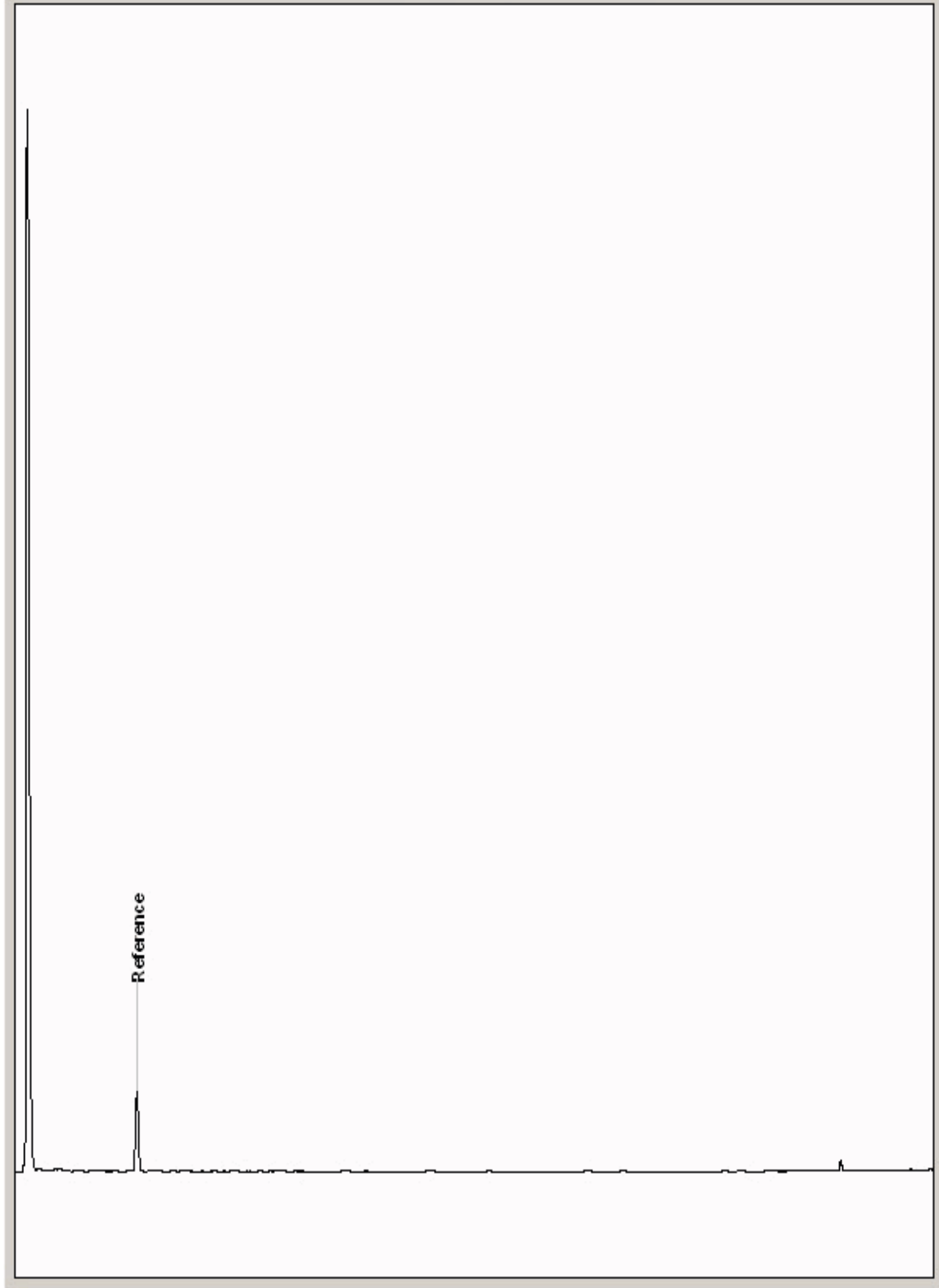
Chromatogram

Analysis: GRO by GC-FID (S)
19288178

Sample No :
Sample ID : BH245

19,288,178 Depth : 15.00 - 16.00

19288178_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

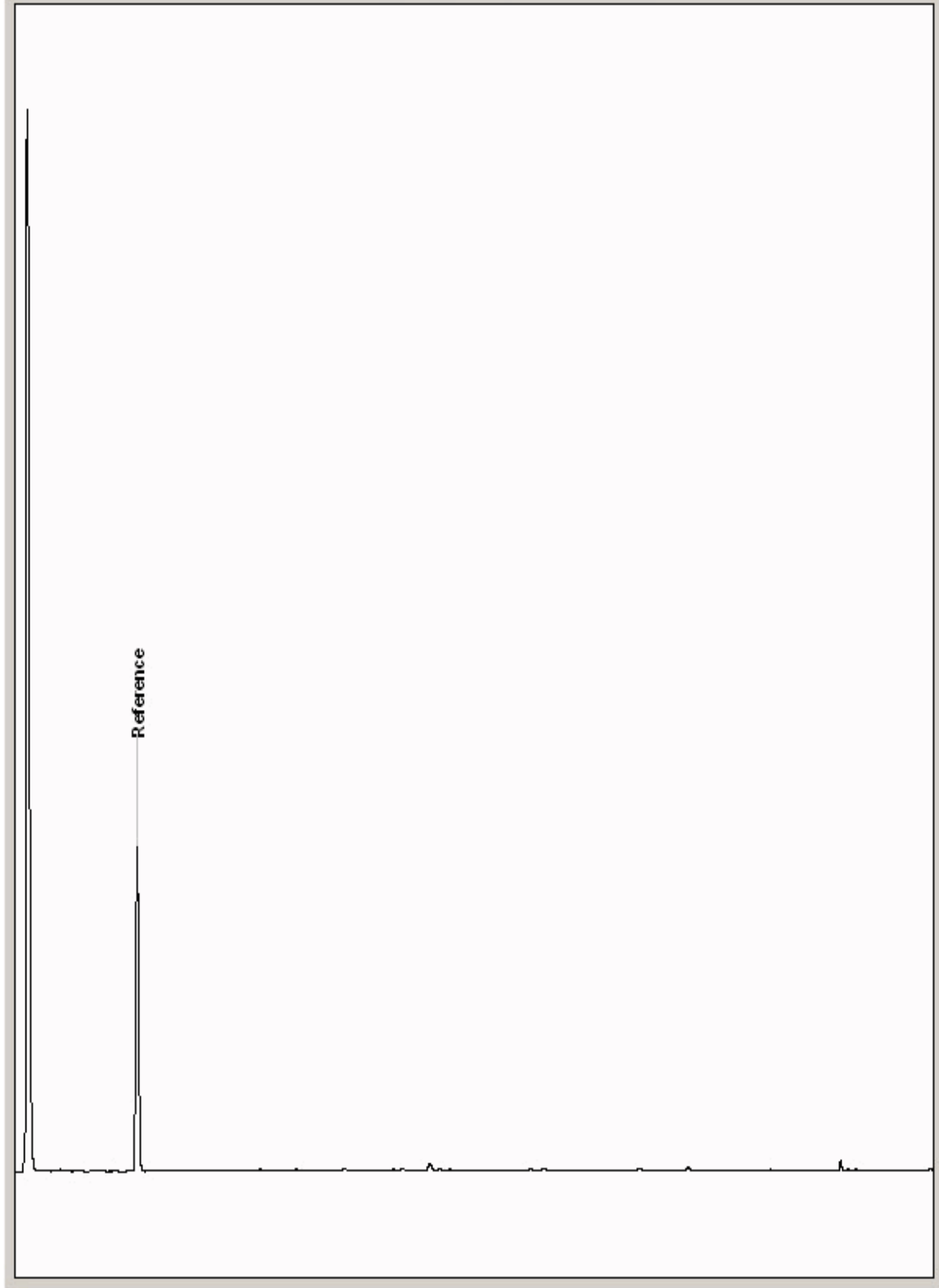
Chromatogram

Analysis: GRO by GC-FID (S)
19288181

Sample No :
Sample ID : BH244

19,288,181 Depth : 14.00 - 15.00

19288181_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

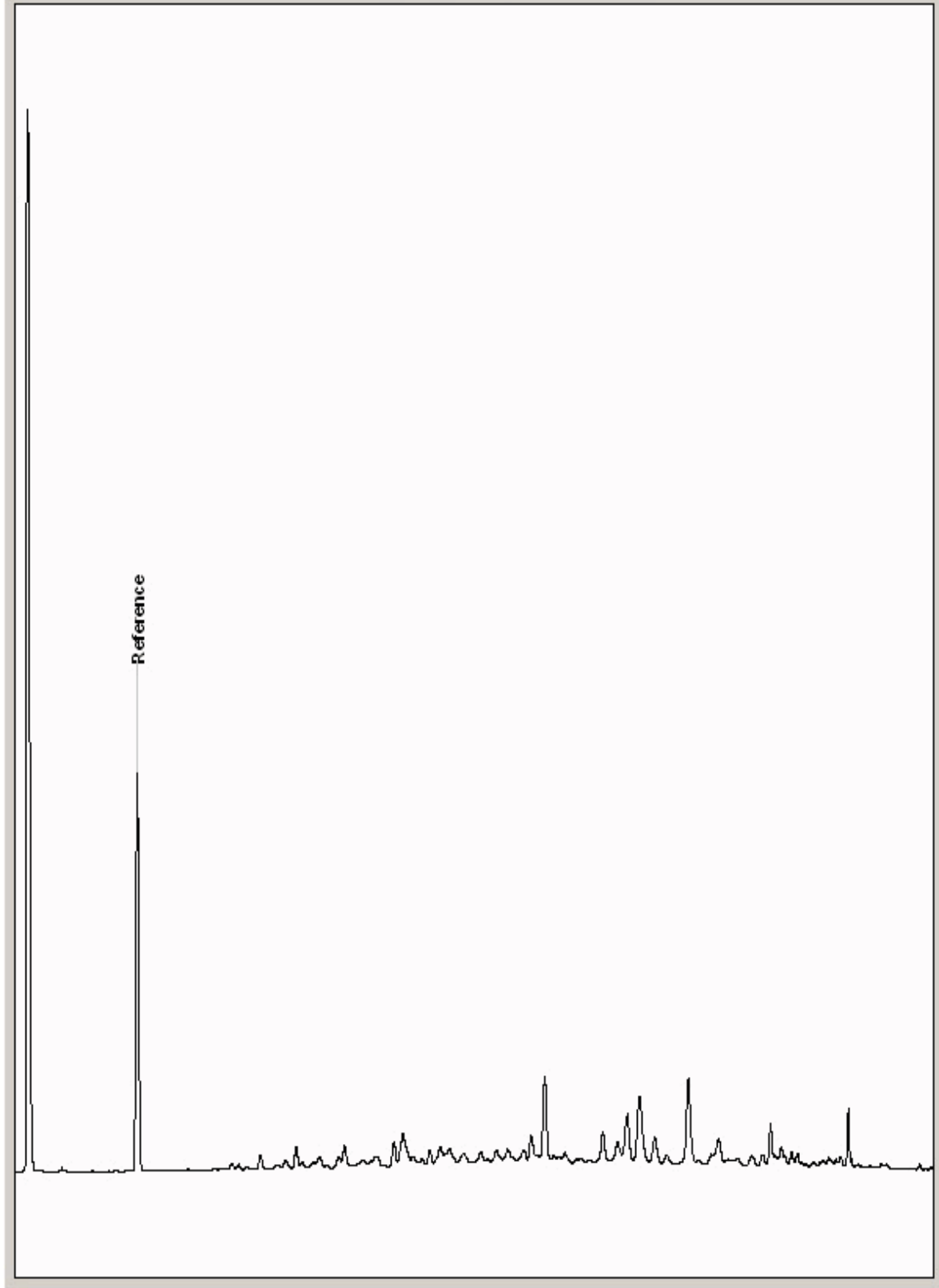
Chromatogram

Analysis: GRO by GC-FID (S)
19288182

Sample No :
Sample ID : BH244

19,288,182Depth :6.00 - 7.00

19288182_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

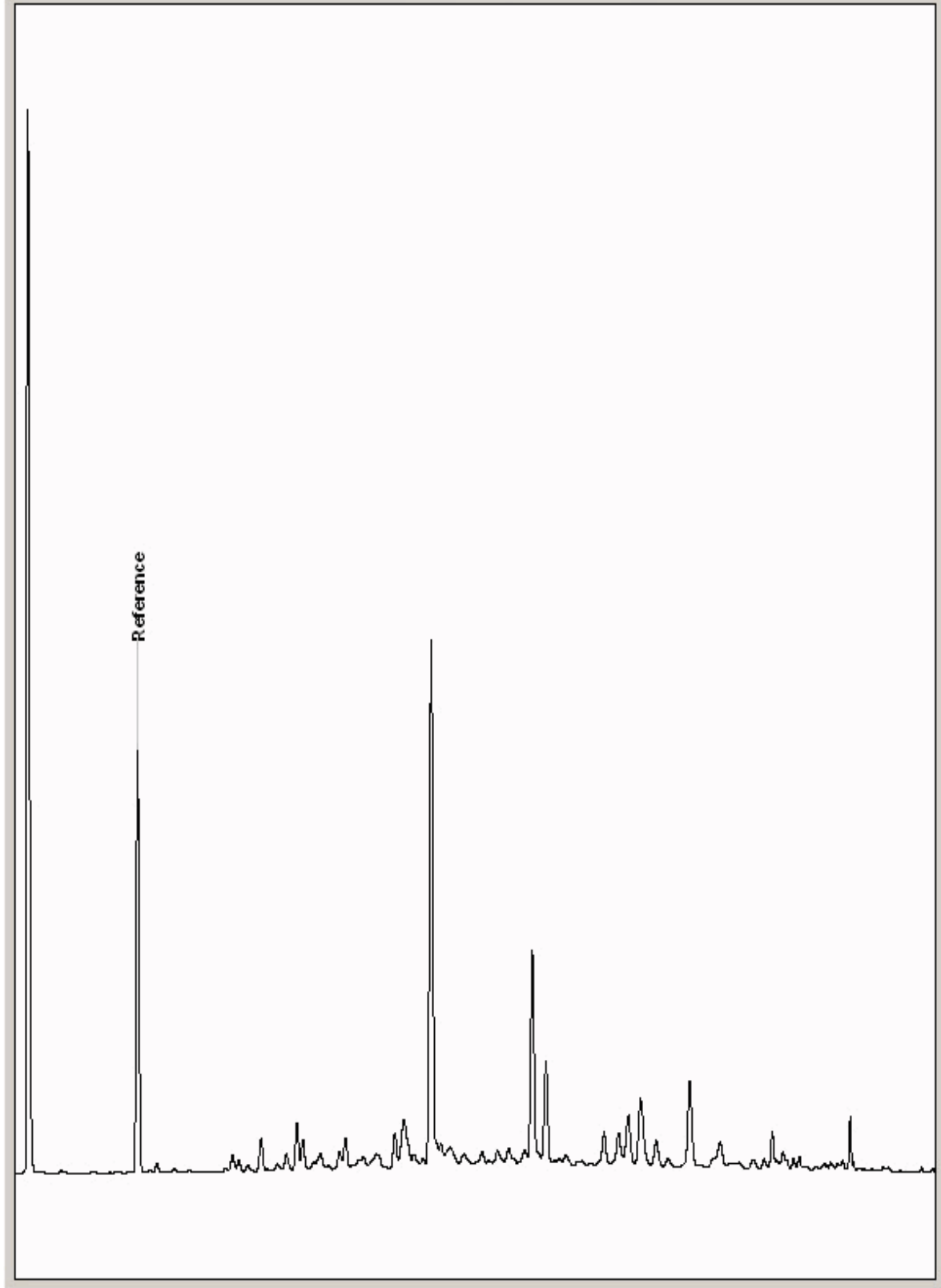
Chromatogram

Analysis: GRO by GC-FID (S)
19288185

Sample No :
Sample ID : BH244

19,288,185Depth :5.00 - 6.00

19288185_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

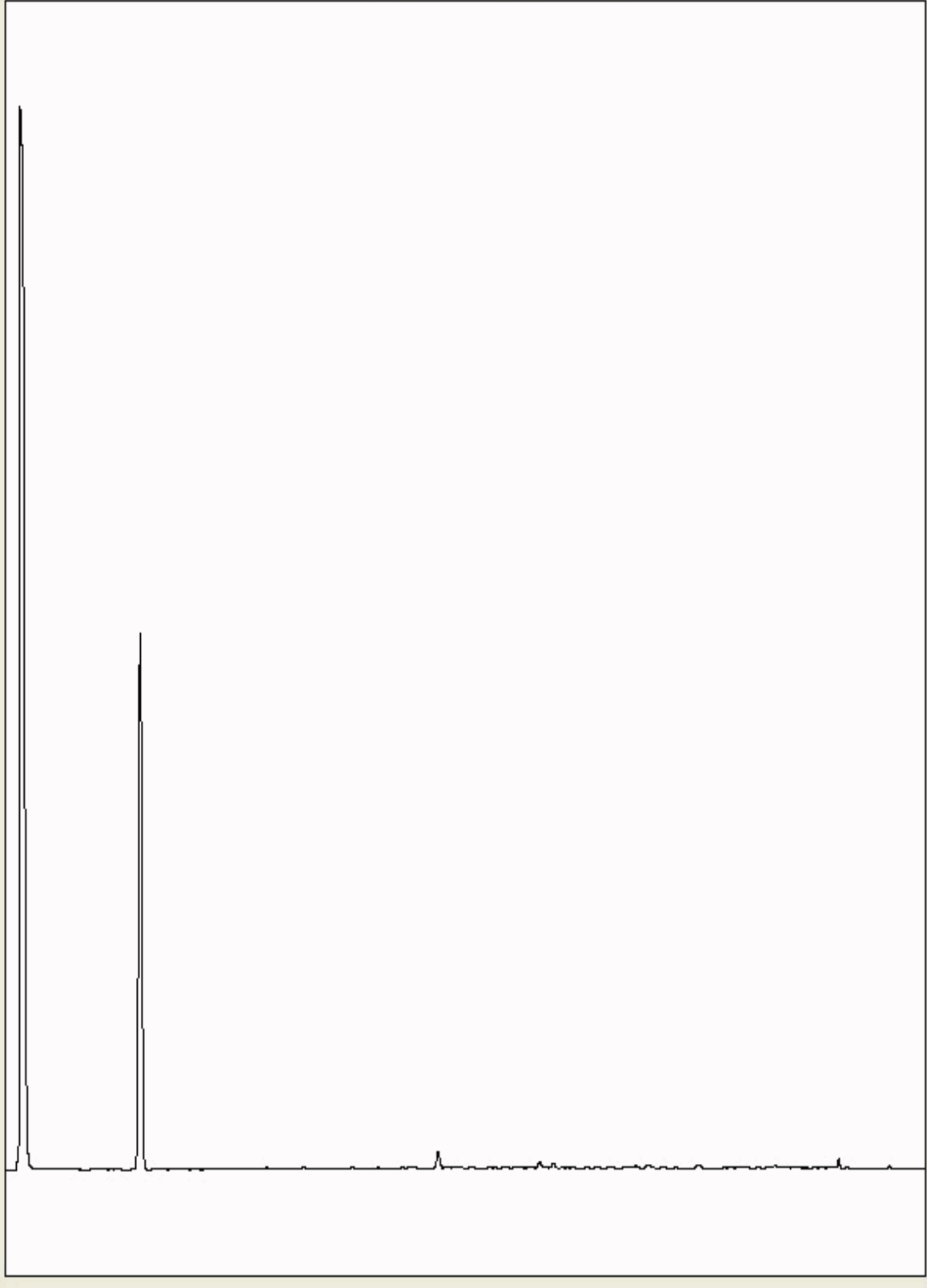
Chromatogram

Analysis: GRO by GC-FID (S)
19291675

Sample No :
Sample ID : BH245

19,291,675 **Depth :** 12.00 - 13.00

19291675_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

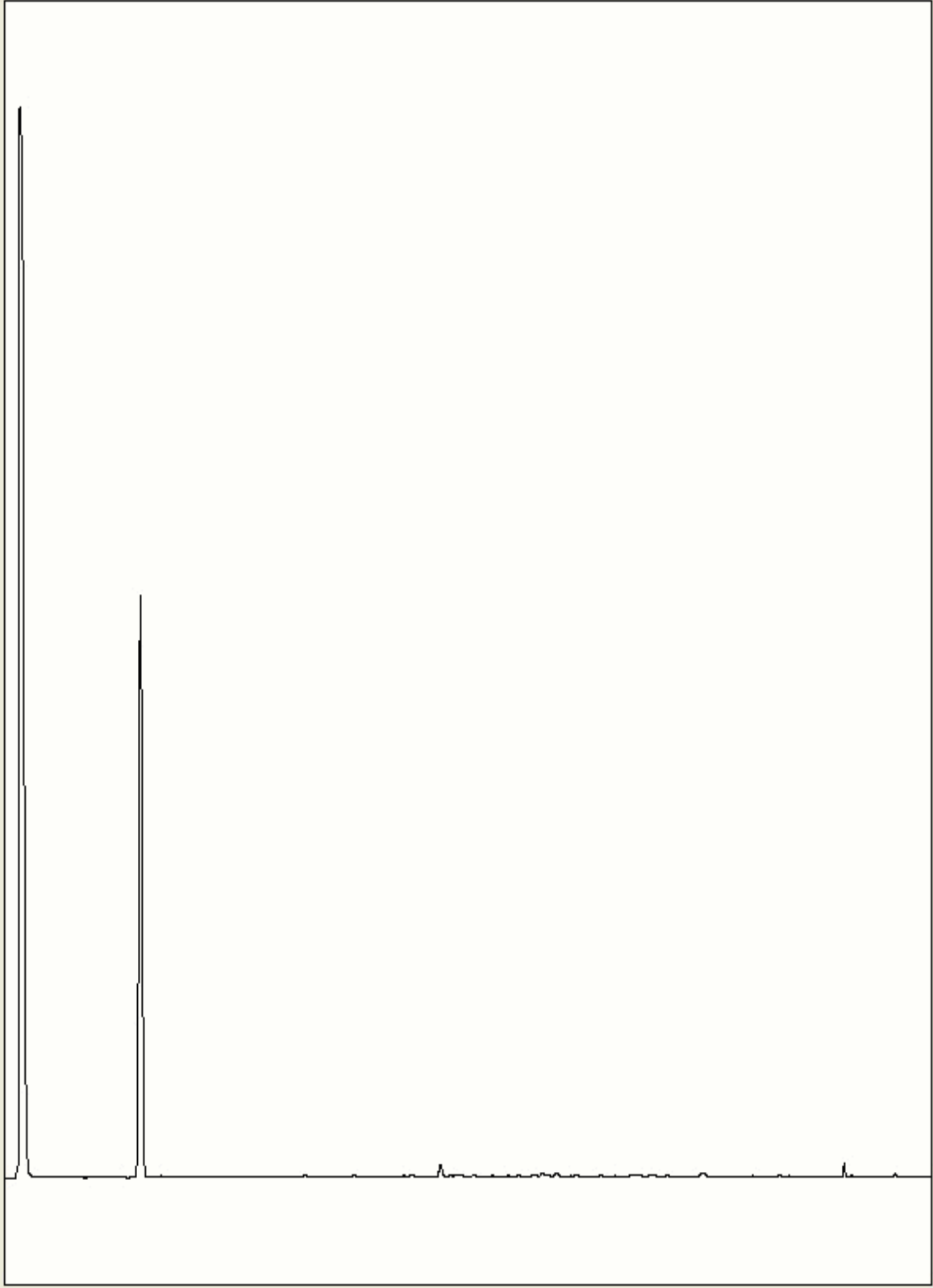
Chromatogram

Analysis: GRO by GC-FID (S)
19291963

Sample No :
Sample ID : BH246

19,291,963 **Depth :** 0.50 - 1.00

19291963_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

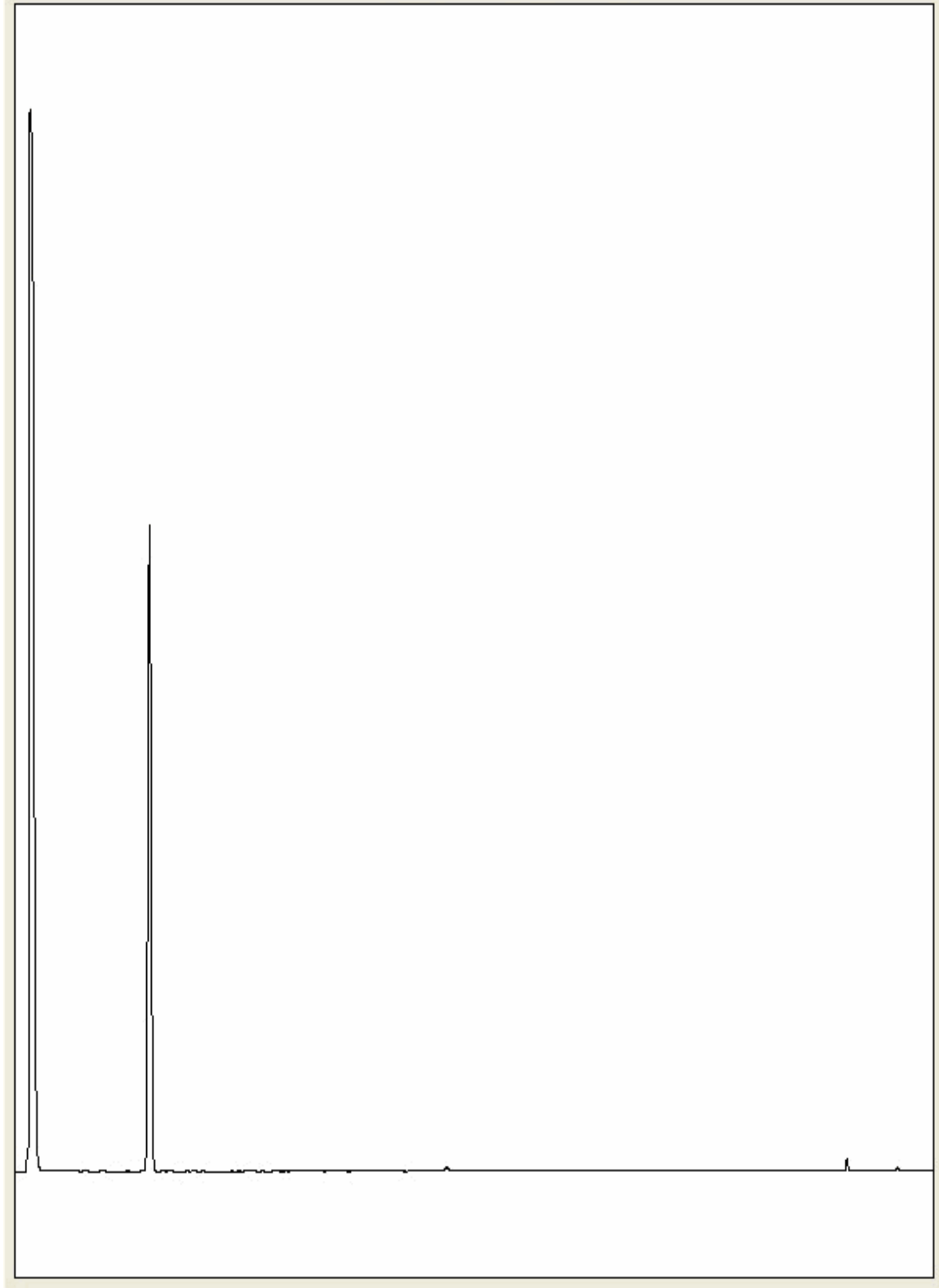
Chromatogram

Analysis: GRO by GC-FID (S)
19292250

Sample No :
Sample ID : BH246

19,292,250 **Depth :** 10.00 - 11.00

19292250_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

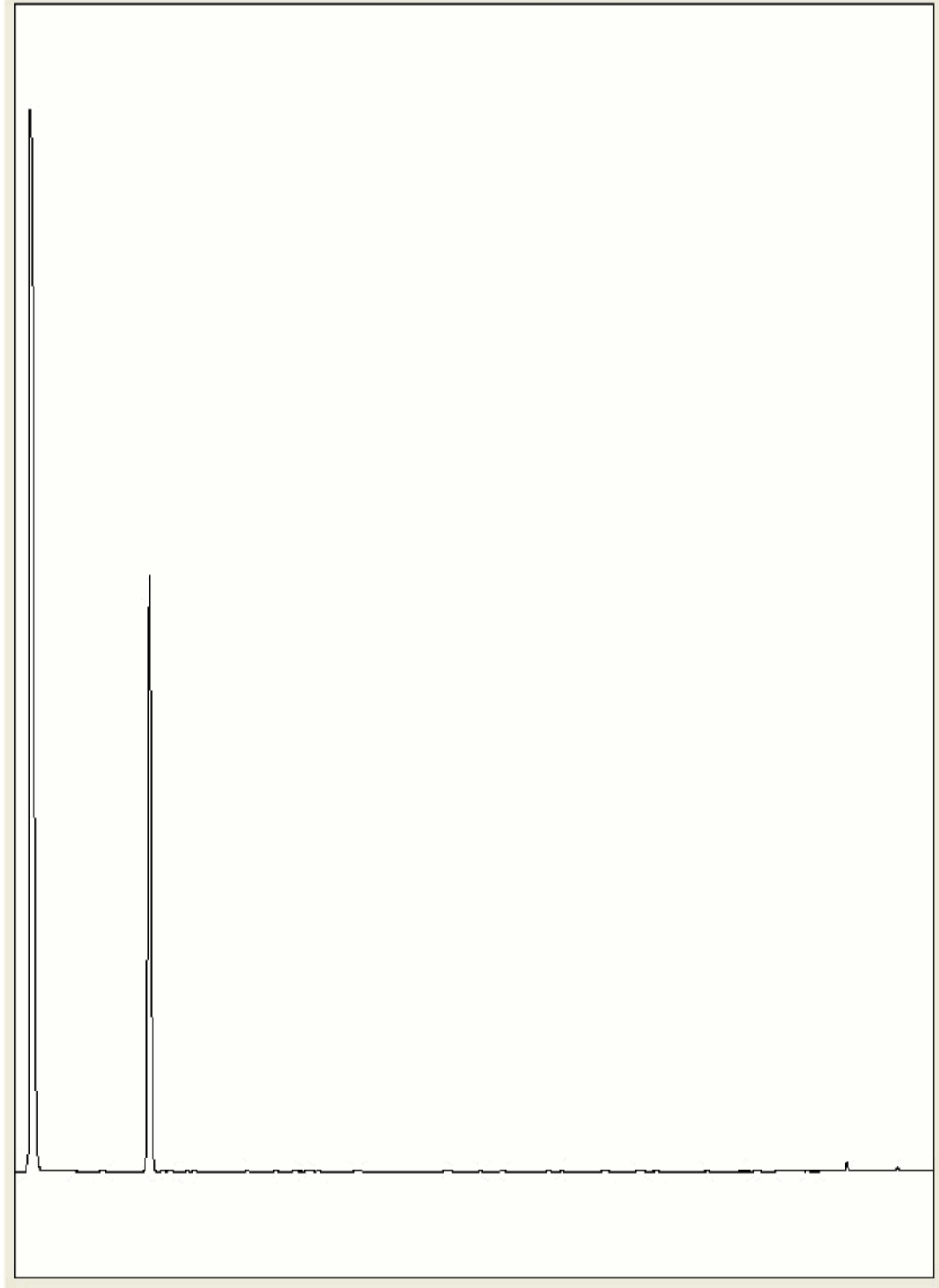
Chromatogram

Analysis: GRO by GC-FID (S)
19292349

Sample No :
Sample ID : BH244

19,292,349 **Depth :** 12.00 - 13.00

19292349_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

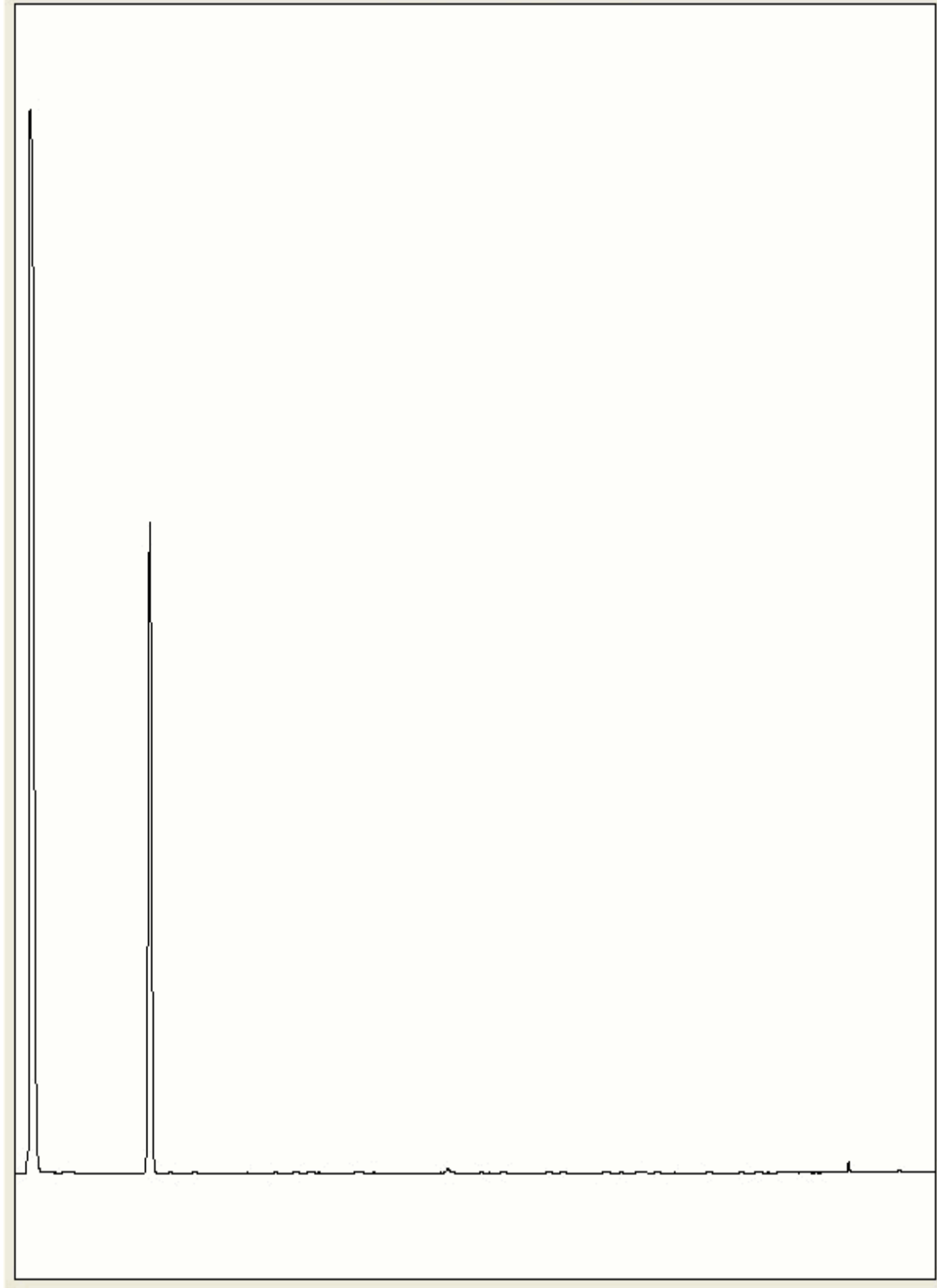
Chromatogram

Analysis: GRO by GC-FID (S)
19293016

Sample No :
Sample ID : BH244

19,293,016 **Depth :** 10.00 - 11.00

19293016_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

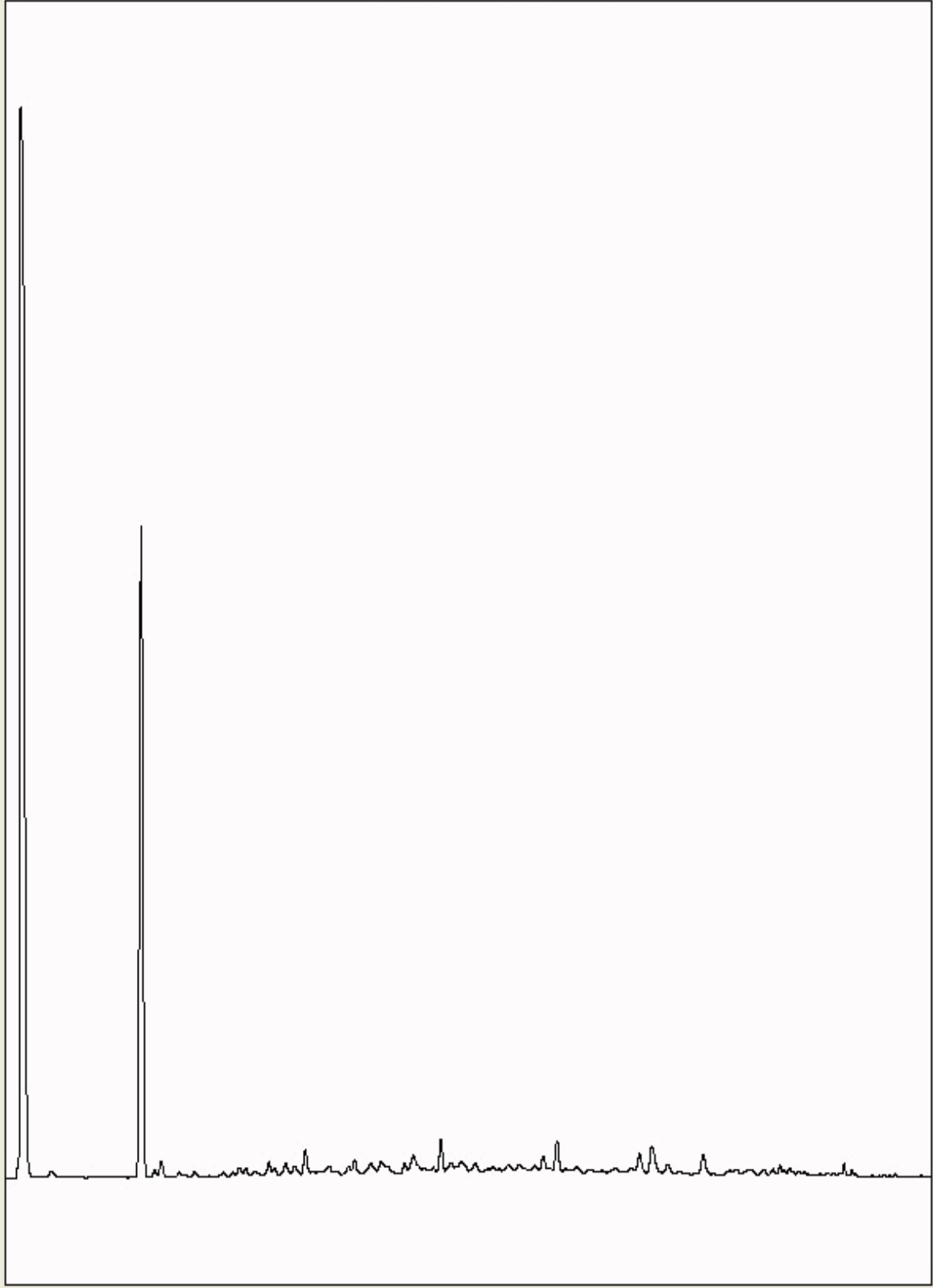
Chromatogram

Analysis: GRO by GC-FID (S)
19293601

Sample No :
Sample ID : BH246

19,293,601 **Depth :** 5.00 - 6.00

19293601_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

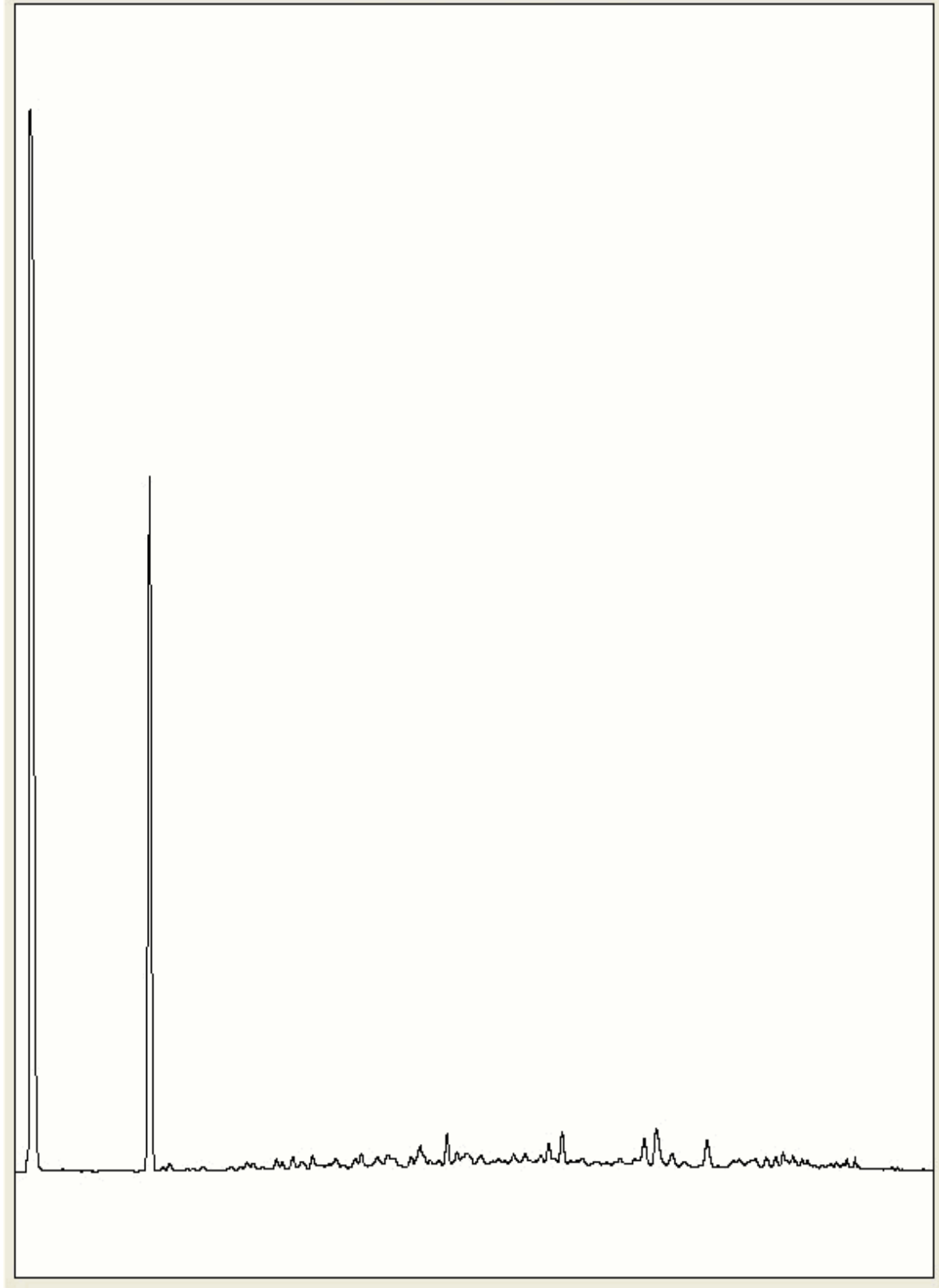
Chromatogram

Analysis: GRO by GC-FID (S)
19293664

Sample No :
Sample ID : BH246

19,293,664**Depth :**6.00 - 7.00

19293664_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

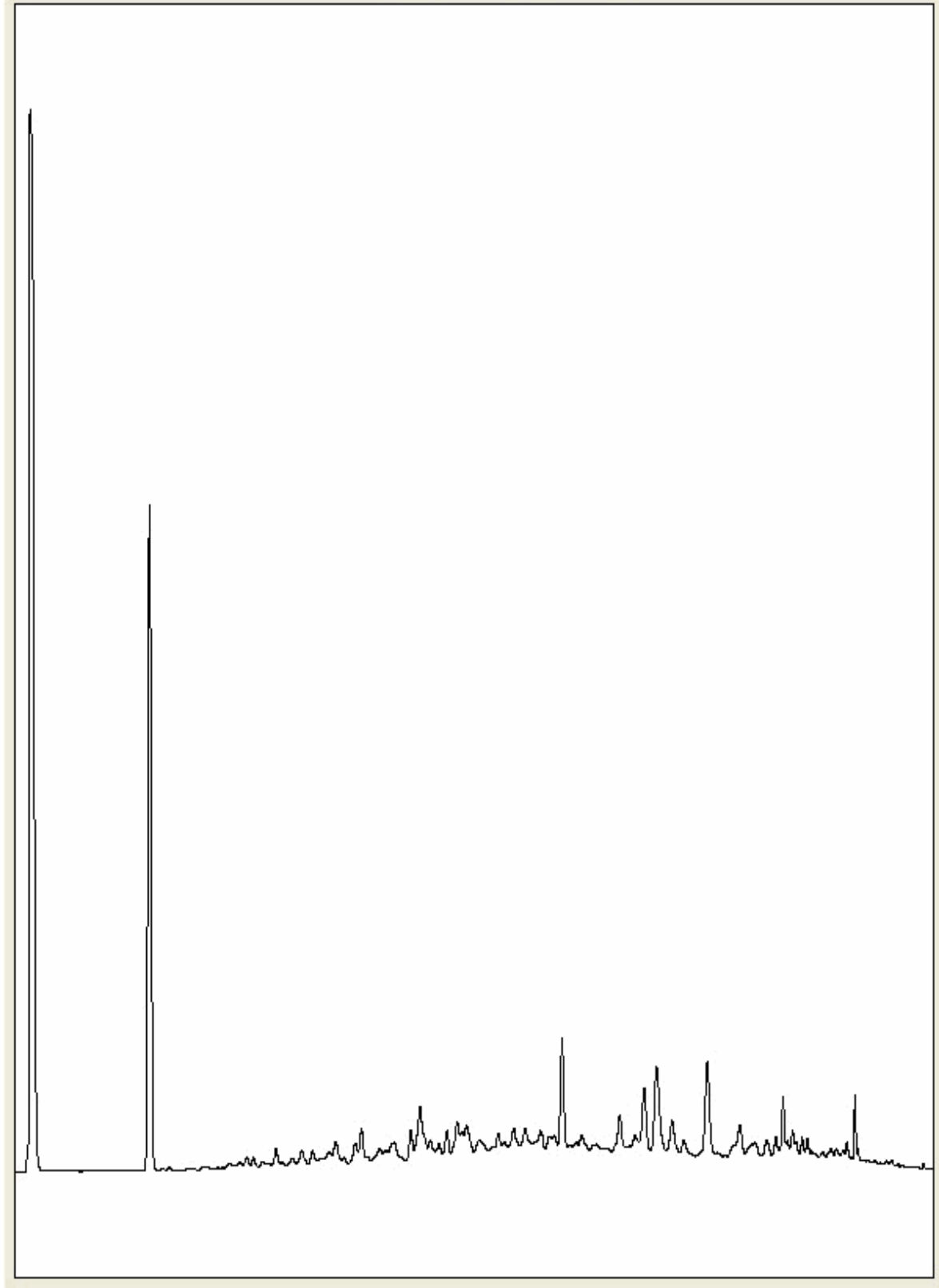
Chromatogram

Analysis: GRO by GC-FID (S)
19293715

Sample No :
Sample ID : BH245

19,293,715 **Depth :** 8.00 - 9.00

19293715_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

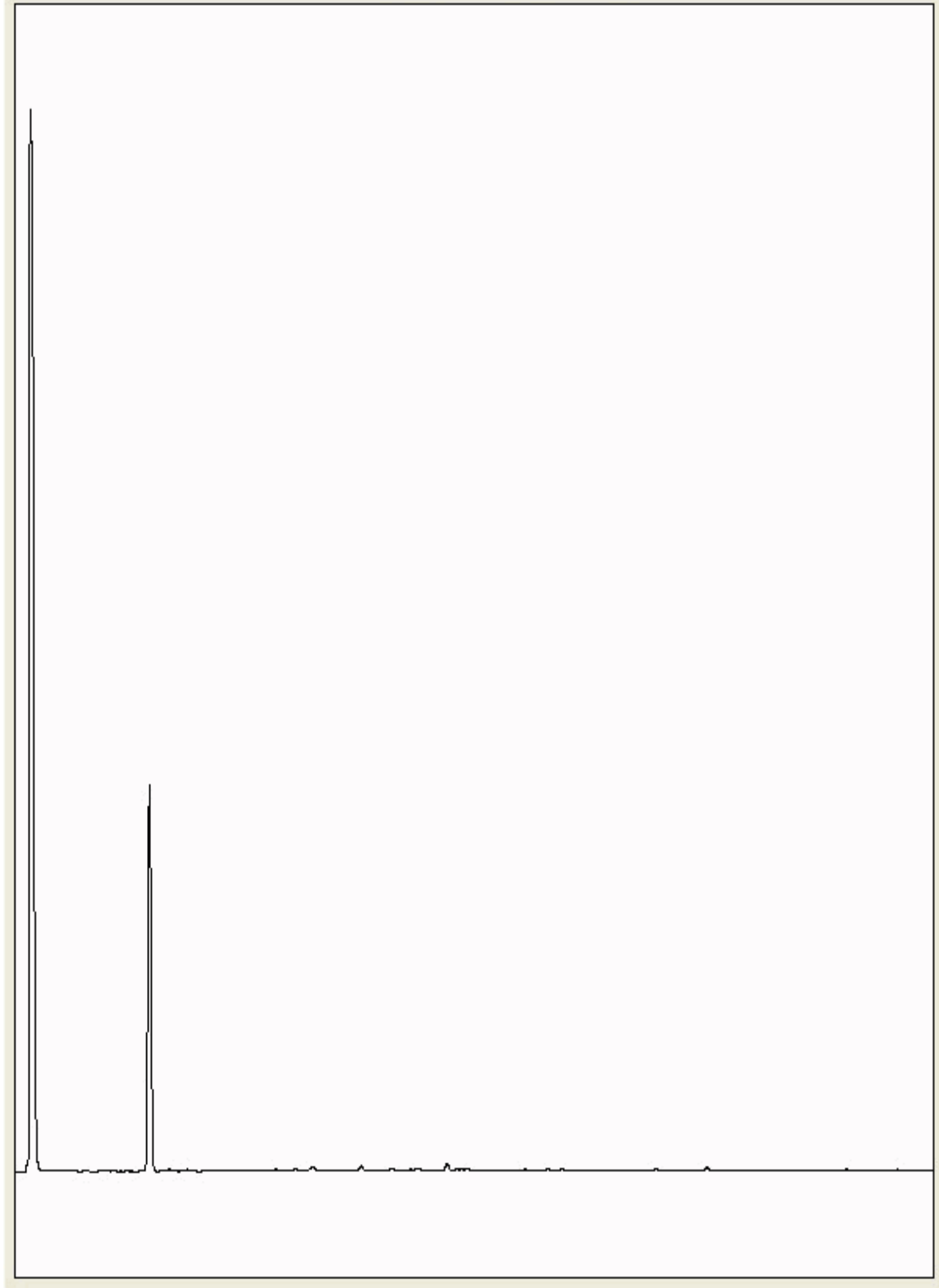
Chromatogram

Analysis: GRO by GC-FID (S)
19293871

Sample No :
Sample ID : BH246

19,293,871 **Depth :** 1.00 - 2.00

19293871_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

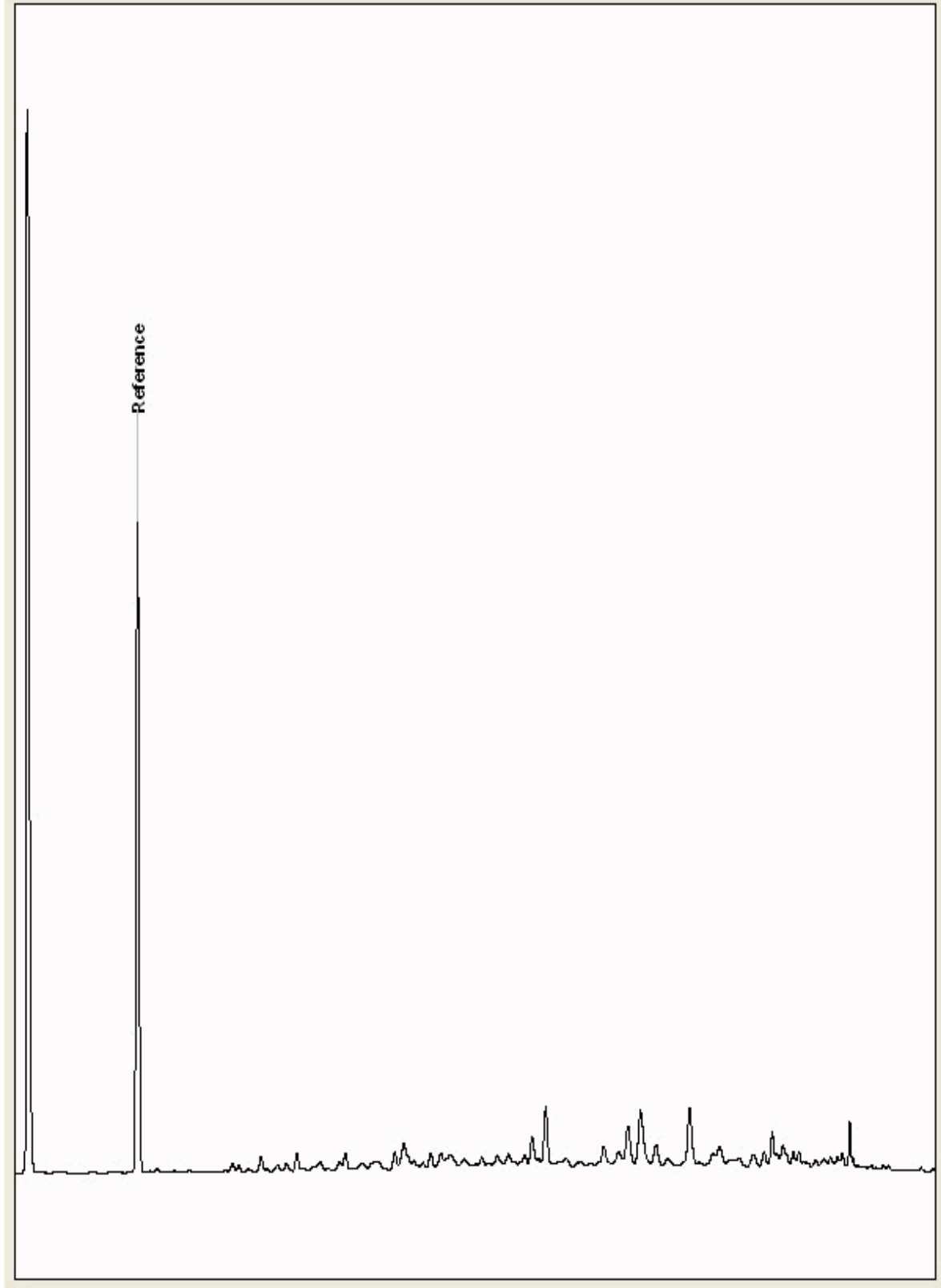
Chromatogram

Analysis: GRO by GC-FID (S)
19316763

Sample No :
Sample ID : BH245

19,316,763Depth :5.00 - 6.00

19316763_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

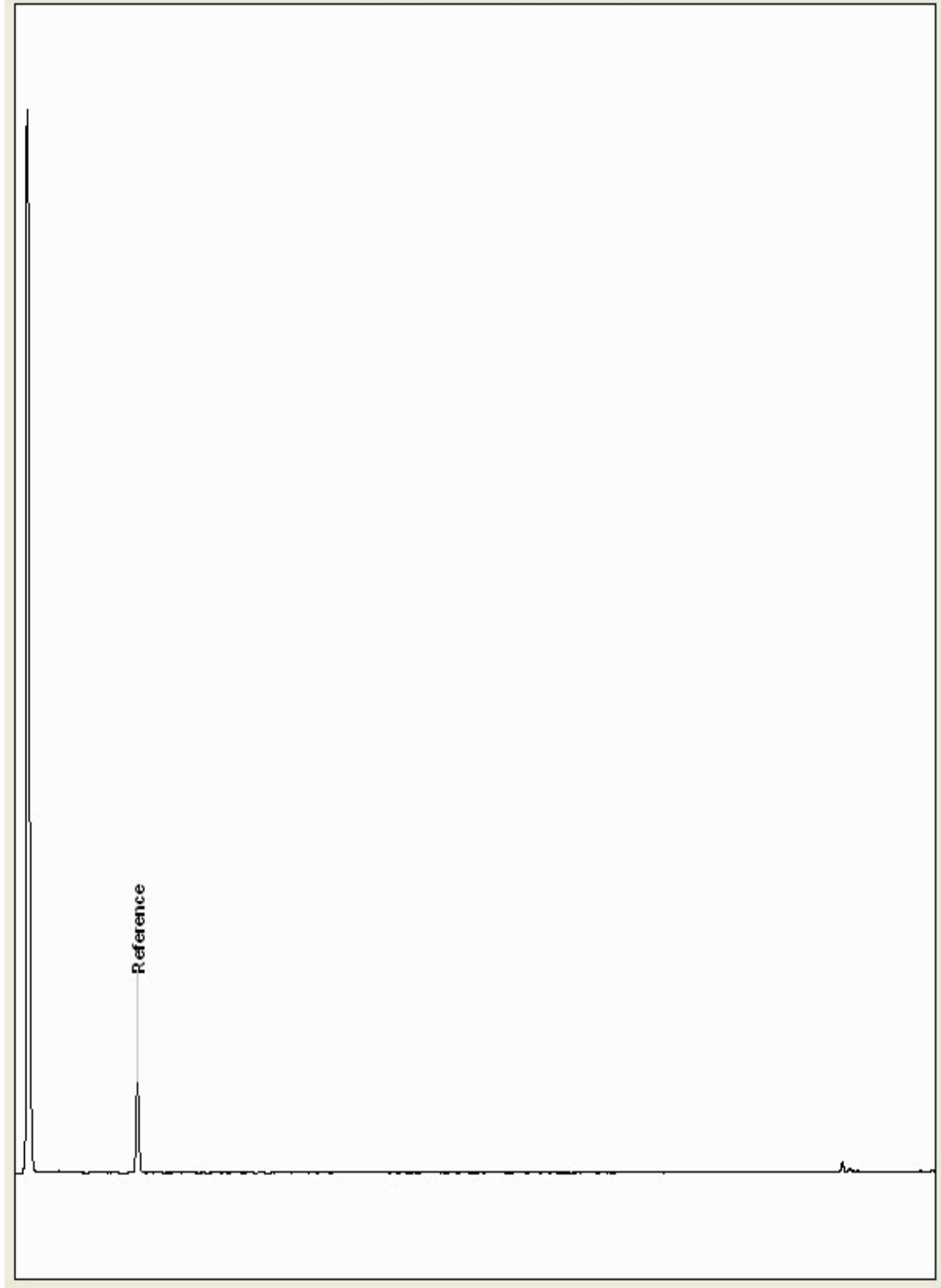
Chromatogram

Analysis: GRO by GC-FID (S)
19316766

Sample No :
Sample ID : BH246

19,316,766Depth : 16.00 - 17.00

19316766_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

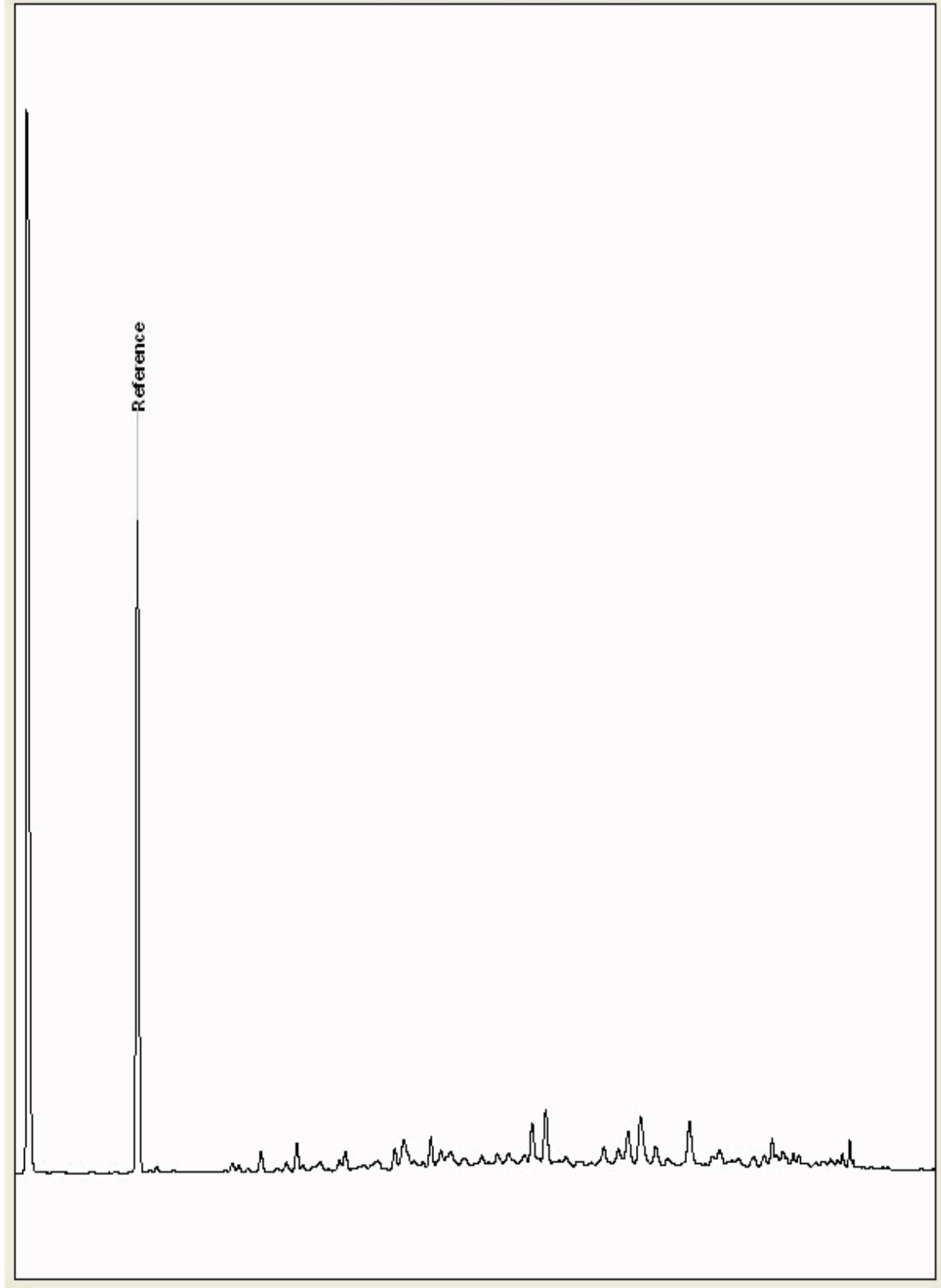
Chromatogram

Analysis: GRO by GC-FID (S)
19316770

Sample No :
Sample ID : BH245

19,316,770Depth :2.00 - 3.00

19316770_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

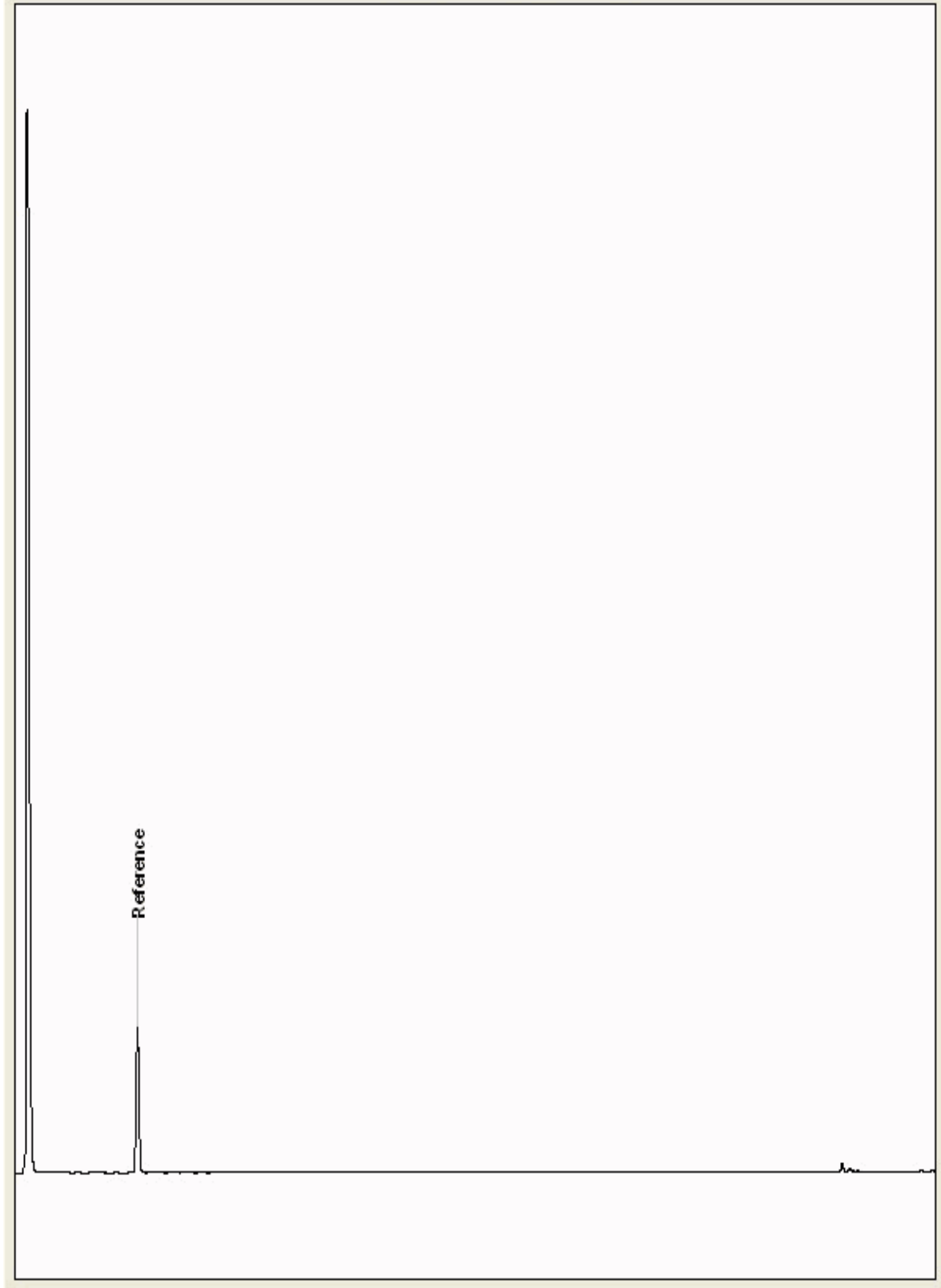
Chromatogram

Analysis: GRO by GC-FID (S)
19316788

Sample No :
Sample ID : BH246

19,316,788**Depth :** 12.00 - 13.00

19316788_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

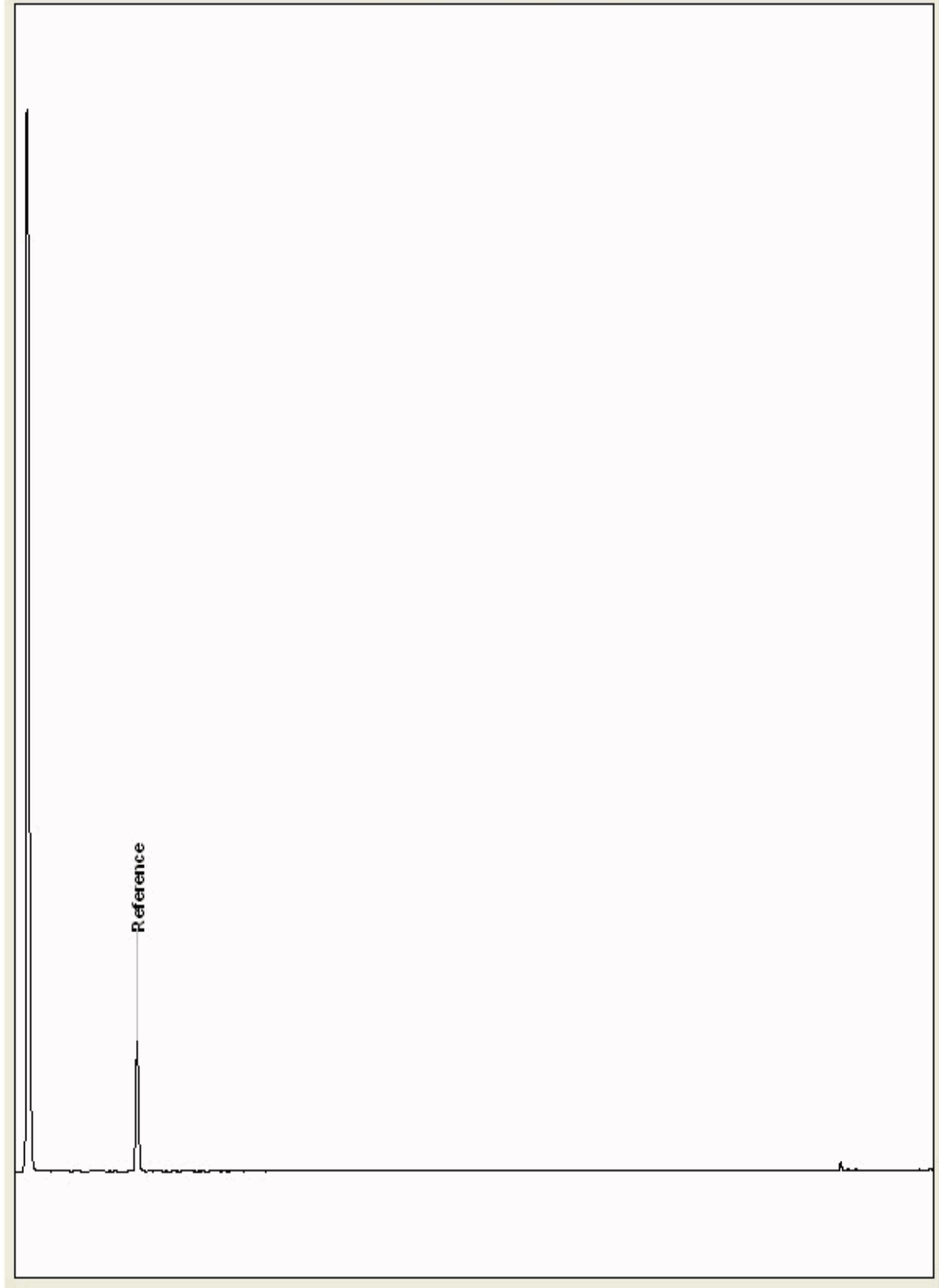
Chromatogram

Analysis: GRO by GC-FID (S)
19316798

Sample No :
Sample ID : BH246

19,316,798 **Depth :** 14.00 - 15.00

19316798_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

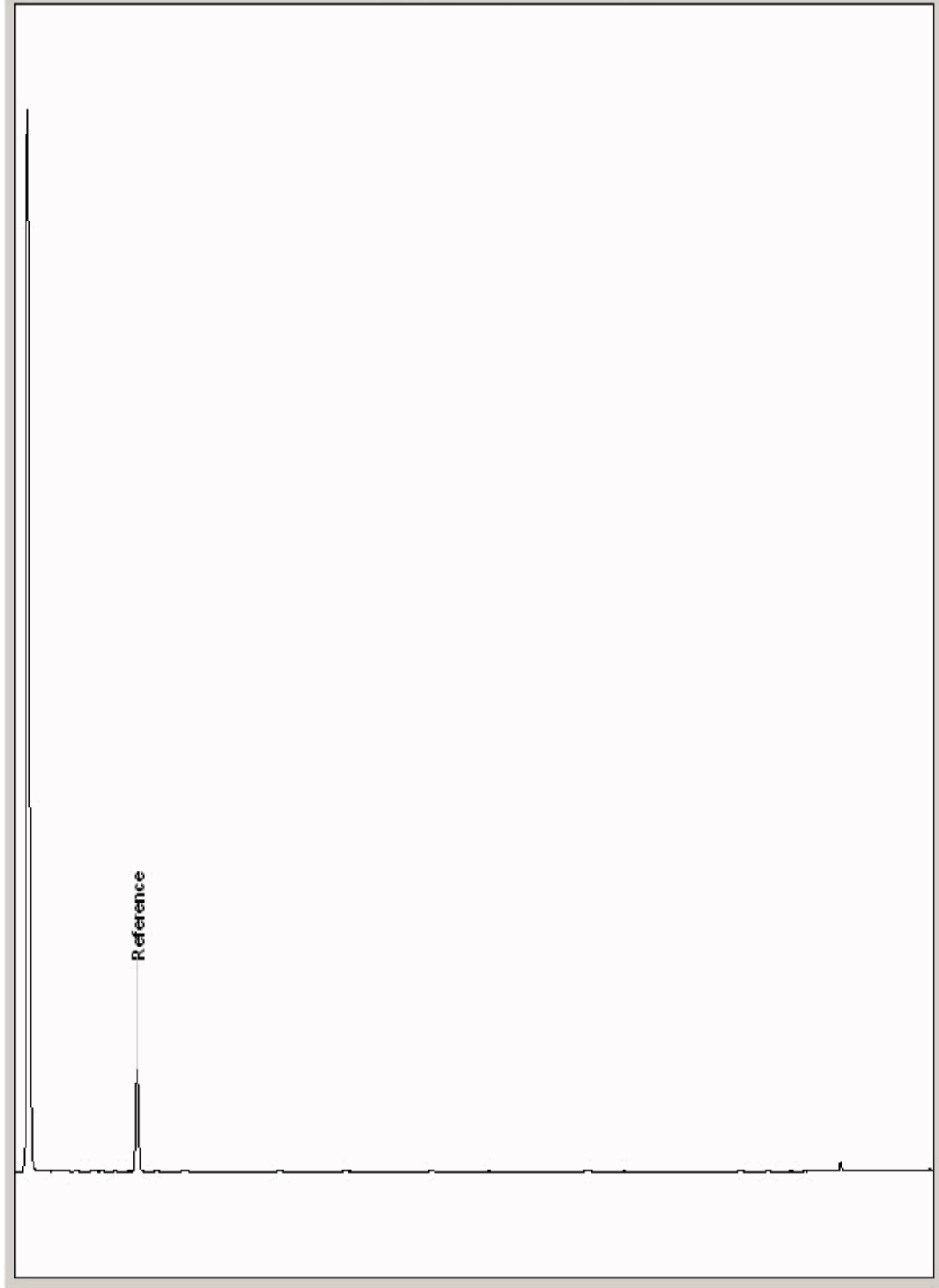
Chromatogram

Analysis: GRO by GC-FID (S)
19316893

Sample No :
Sample ID : BH244

19,316,893 Depth : 16.00 - 17.00

19316893_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

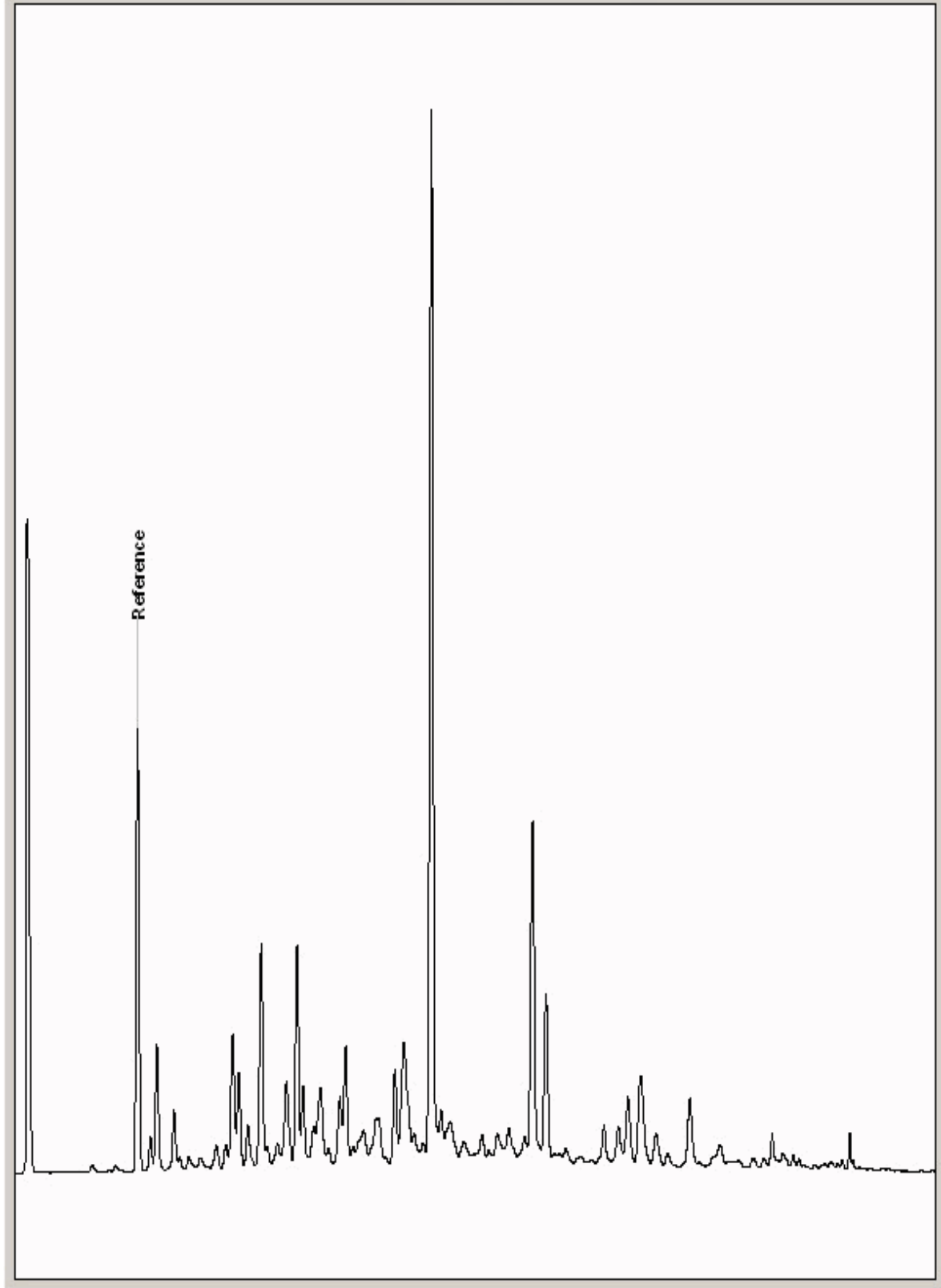
Chromatogram

Analysis: GRO by GC-FID (S)
19316907

Sample No :
Sample ID : BH246

19,316,907Depth :2.00 - 3.00

19316907_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

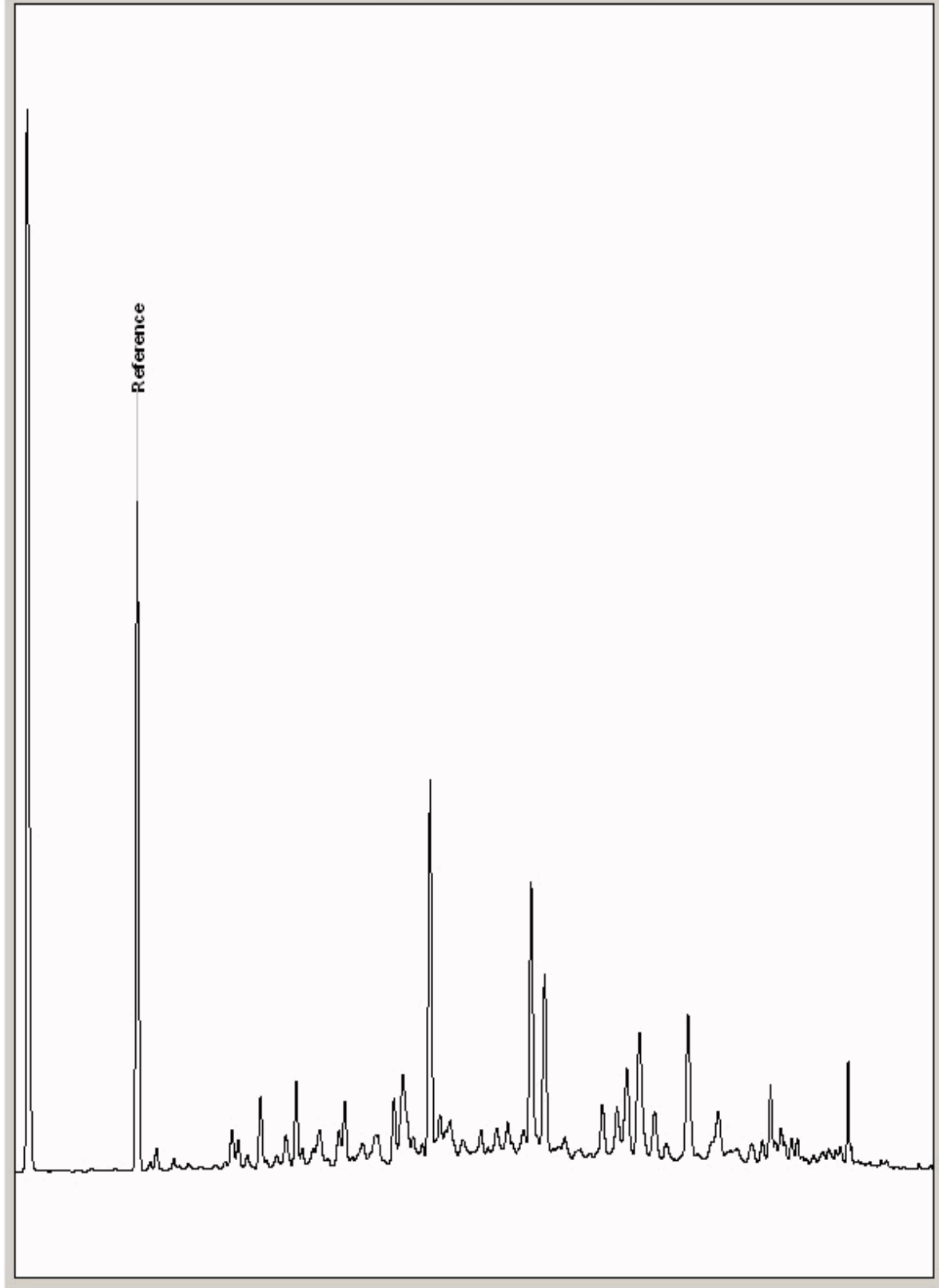
Chromatogram

Analysis: GRO by GC-FID (S)
19316912

Sample No :
Sample ID : BH245

19,316,912Depth :6.00 - 7.00

19316912_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

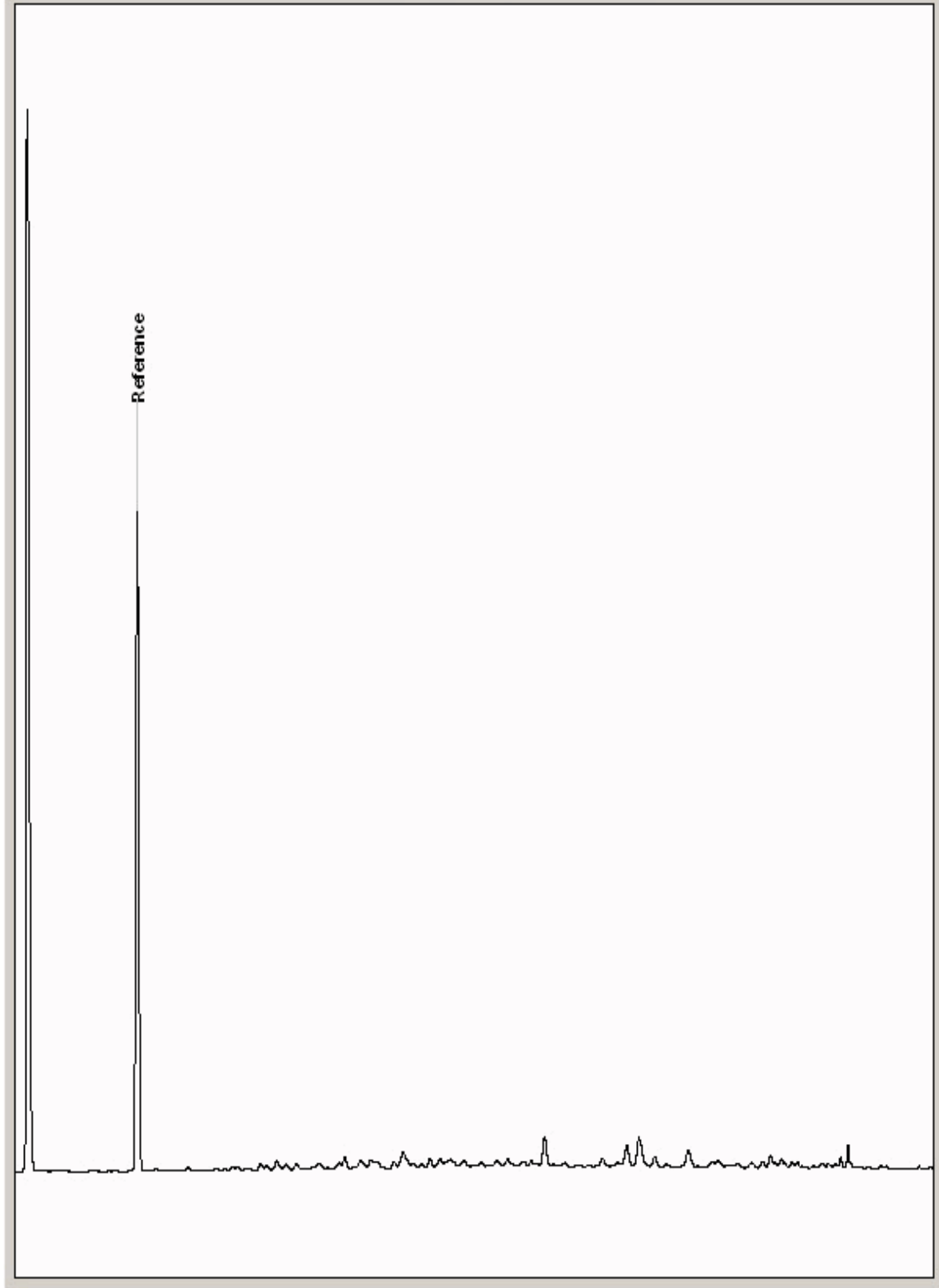
Chromatogram

Analysis: GRO by GC-FID (S)
19316917

Sample No :
Sample ID : BH246

19,316,917Depth :4.00 - 5.00

19316917_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

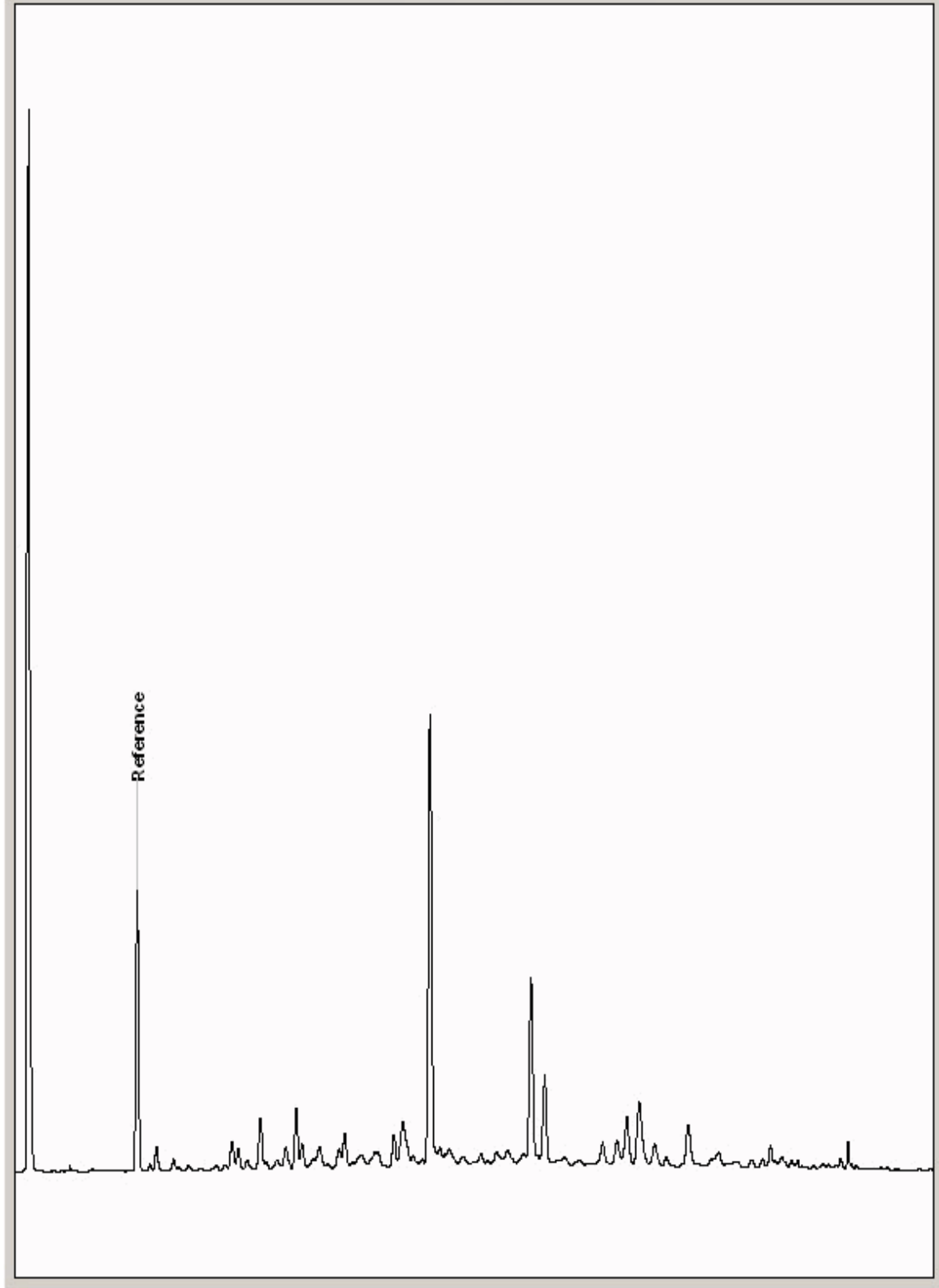
Chromatogram

Analysis: GRO by GC-FID (S)
19325183

Sample No :
Sample ID : BH246

19,325,183Depth :3.00 - 4.00

19325183_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

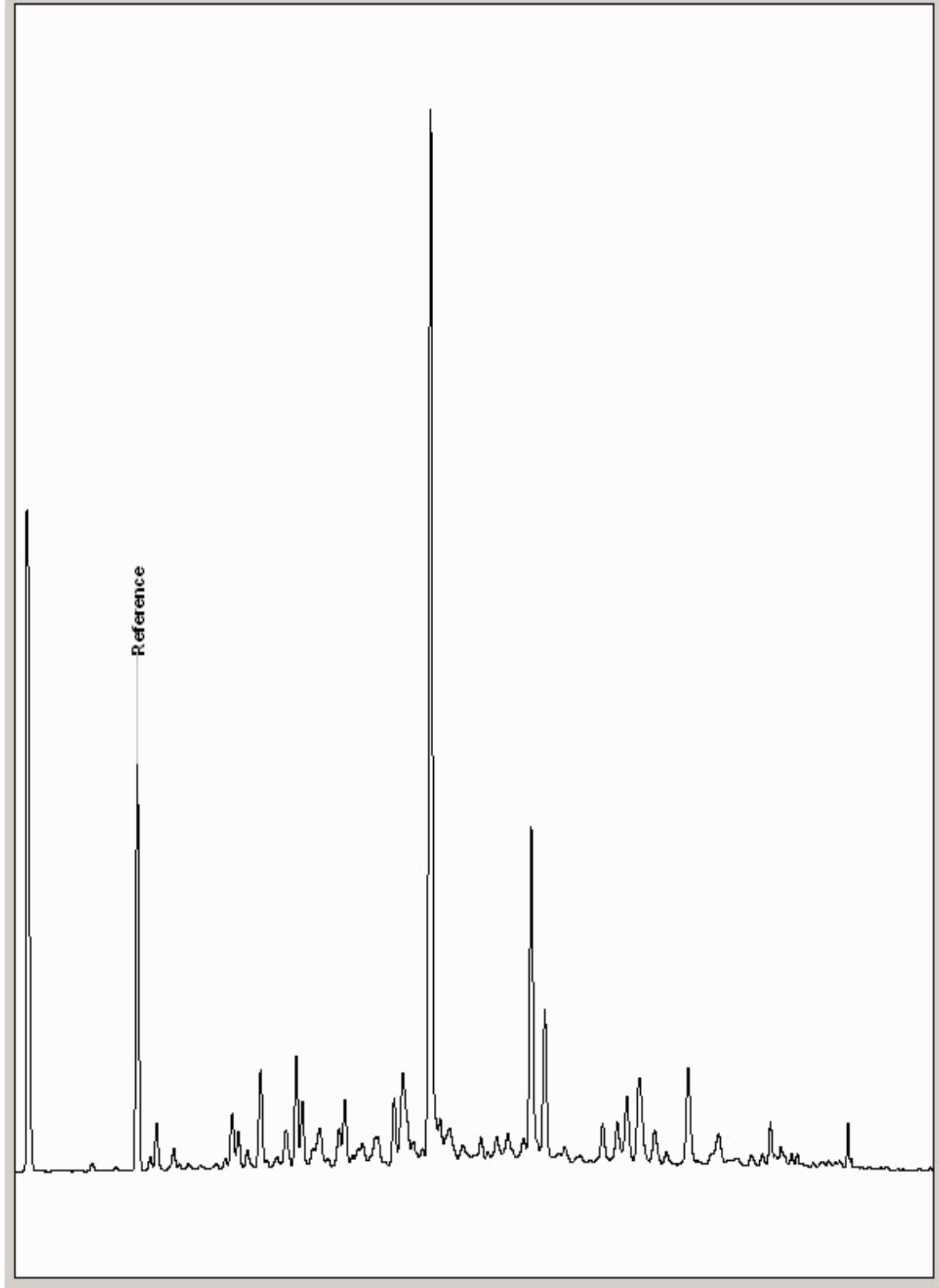
Chromatogram

Analysis: GRO by GC-FID (S)
19325185

Sample No :
Sample ID : BH245

19,325,185Depth :4.00 - 5.00

19325185_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

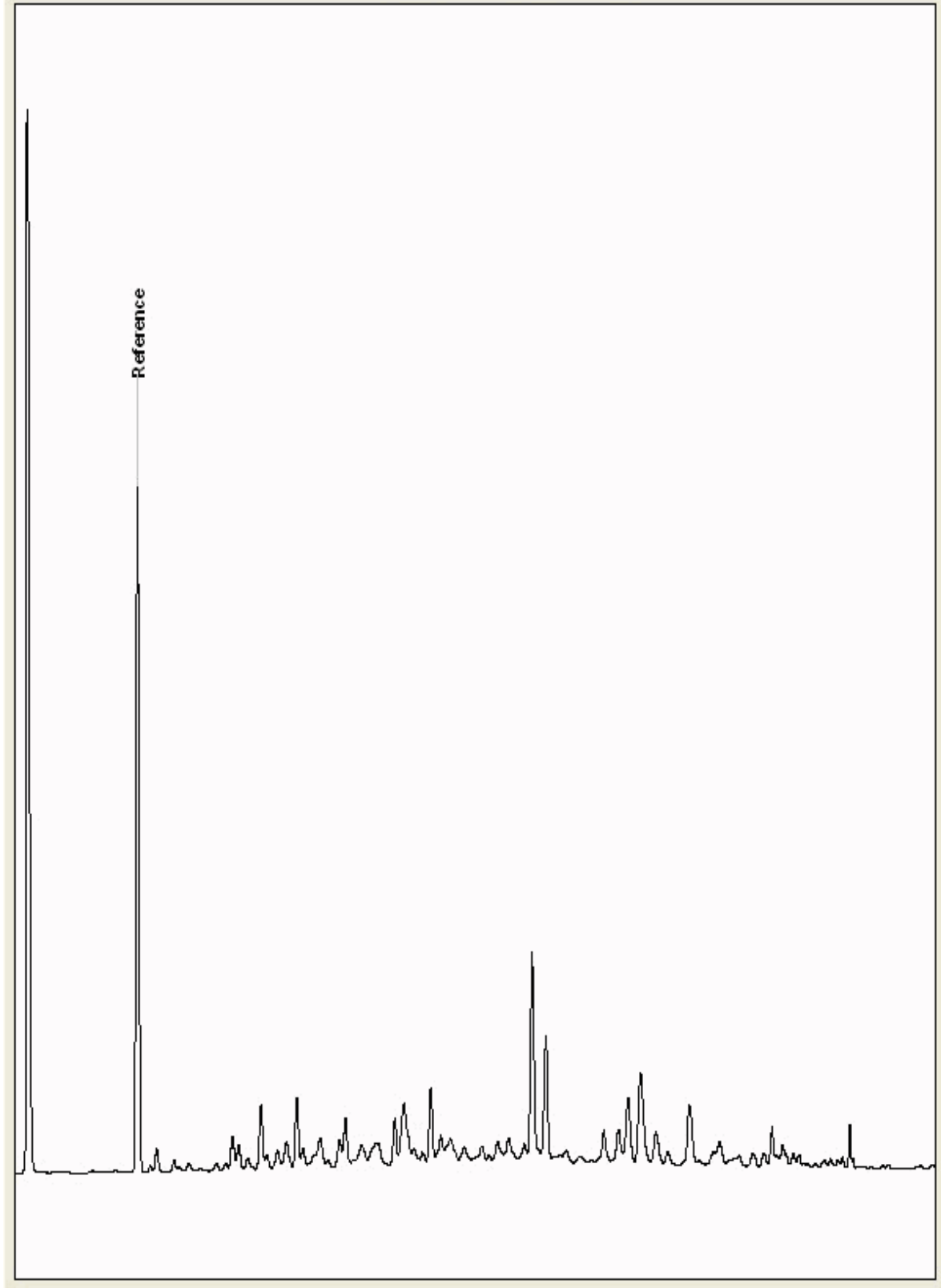
Chromatogram

Analysis: GRO by GC-FID (S)
19332459

Sample No :
Sample ID : BH246

19,332,459Depth :3.00 - 4.00

19332459_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
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Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	33
Your Reference:	602387	Samples Scheduled:	33

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19241032	BH239		0.00 - 0.50	24/01/2019
19241033	BH239		0.00 - 1.00	24/01/2019
19241034	BH239		1.00 - 2.00	24/01/2019
19241046	BH239		11.00 - 12.00	24/01/2019
19241050	BH239		15.00 - 16.00	24/01/2019
19241051	BH239		16.00 - 17.00	24/01/2019
19241035	BH239		2.00 - 3.00	24/01/2019
19241036	BH239		3.00 - 4.00	24/01/2019
19241037	BH239		4.00 - 5.00	24/01/2019
19241038	BH239		5.00 - 6.00	24/01/2019
19241039	BH239		6.00 - 7.00	24/01/2019
19241041	BH239		8.00 - 9.00	24/01/2019
19241052	BH240		0.00 - 0.50	24/01/2019
19241053	BH240		0.00 - 1.00	24/01/2019
19241054	BH240		1.00 - 2.00	24/01/2019
19241065	BH240		11.00 - 12.00	24/01/2019
19241068	BH240		13.00 - 14.00	24/01/2019
19241070	BH240		15.00 - 16.00	24/01/2019
19241055	BH240		2.00 - 3.00	24/01/2019
19241056	BH240		3.00 - 4.00	24/01/2019
19241058	BH240		5.00 - 6.00	24/01/2019
19241062	BH240		8.00 - 9.00	24/01/2019
19241072	BH242		0.00 - 0.50	29/01/2019
19241074	BH242		1.00 - 2.00	29/01/2019
19241084	BH242		10.00 - 11.00	29/01/2019
19241085	BH242		11.00 - 12.00	29/01/2019
19241087	BH242		13.00 - 14.00	29/01/2019
19241088	BH242		14.00 - 15.00	29/01/2019
19241090	BH242		16.00 - 17.00	29/01/2019
19241077	BH242		3.00 - 4.00	29/01/2019
19241079	BH242		5.00 - 6.00	29/01/2019
19241080	BH242		6.00 - 7.00	29/01/2019
19241082	BH242		8.00 - 9.00	29/01/2019

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19241032	19241033	19241034	19241035	19241036	19241037	19241038	19241039	19241041	19241046	19241050	19241051	19241052	19241053
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 33		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19241053	19241054	19241055	19241056	19241058	19241062	19241065	19241068	19241070	19241072	19241074	19241077	19241079	19241080
Customer Sample Reference	BH240	BH240	BH240	BH240	BH240	BH240	BH240	BH240	BH240	BH242	BH242	BH242	BH242	BH242
AGS Reference														
Depth (m)	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00	11.00 - 12.00	13.00 - 14.00	15.00 - 16.00	0.00 - 0.50	1.00 - 2.00	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00
Container	250g Amber Jar 60g VOC (ALE215)	1kg TUB 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19241053	19241054	19241055	19241056	19241058	19241062	19241065	19241068	19241070	19241072	19241074	19241077	19241079	19241080
Customer Sample Reference	BH240	BH240	BH240	BH240	BH240	BH240	BH240	BH240	BH240	BH242	BH242	BH242	BH242	BH242
AGS Reference														
Depth (m)	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00	11.00 - 12.00	13.00 - 14.00	15.00 - 16.00	0.00 - 0.50	1.00 - 2.00	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00
Container	250g Amber Jar 60g VOC (ALE215)	1kg TUB 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)

PCBs by GCMS	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 33		X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 33		X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19241082	19241084	19241085	19241087	19241088	19241090
Customer Sample Reference	BH242	BH242	BH242	BH242	BH242	BH242
AGS Reference						
Depth (m)	8.00 - 9.00	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
Container	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 120g Amber Jar 60g VOC (ALE215)	60g VOC (ALE215) 250g Amber Jar 1kg TUB

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 33	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH239	BH239	BH239	BH239	BH239	BH239
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.00 - 1.00	1.00 - 2.00	11.00 - 12.00	15.00 - 16.00	16.00 - 17.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241032	19241033	19241034	19241046	19241050	19241051
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	9.1	24	26	11	7.2	6.3
Loss on ignition	<0.7 %	TM018	3.21	3.18	3.34	1.43	1.88	2
Mineral Oil Surrogate % recovery**	%	TM061	78.5	72.8	82	76.5	72.6	75.1
Mineral oil >C10-C40	<1 mg/kg	TM061	1330	23.4	17.4	<1	9.71	12.6
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06 @ M	<0.06 @ M	<0.06 @ M	<0.06 @ M	<0.06 @ M	<0.06 @ M
Organic Carbon, Total	<0.2 %	TM132	0.82	1.61	1.62	0.477	0.736	0.629
pH	1 pH Units	TM133	11.4	7.86	7.74	8.65	8.38	8.42
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11.5	11.7	7.83	6.02	9.41	12.1
Cadmium	<0.02 mg/kg	TM181	0.958	0.582	0.339	1.11	1.44	1.34
Chromium	<0.9 mg/kg	TM181	12.3	14.1	9.61	7.88	11.7	4.55
Copper	<1.4 mg/kg	TM181	33.4	37.8	25	14.6	24.2	19
Lead	<0.7 mg/kg	TM181	47.4	65.4	47.3	6.57	12.5	13.4
Mercury	<0.14 mg/kg	TM181	<0.14	0.244	0.294	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	25.7	20.2	14.7	22.4	32.2	24.4
Selenium	<1 mg/kg	TM181	1.72	<1	<1	1.54	1.98	2.03
Zinc	<1.9 mg/kg	TM181	99.1	73.1	52	64	73.6	58.8
ANC @ pH 4	<0.03 mol/kg	TM182	0.211	0.436	0.297	0.673	1.02	0.95
ANC @ pH 6	<0.03 mol/kg	TM182	0.109	0.0635	0.0569	0.199	0.11	0.128
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH239	BH239	BH239	BH239	BH239	BH239
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
tot.unfilt	Total / unfiltered sample.		190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
* Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery. 1-3*§@ Sample deviation (see appendix)			19241035	19241036	19241037	19241038	19241039	19241041
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	24	28	22	14	12	11
Loss on ignition	<0.7 %	TM018	4.6	7.64	3.73	2.46	1.8	1.42
Mineral Oil Surrogate % recovery**	%	TM061	81.5	72.6	79.4	72.3	76.8	72.9
Mineral oil >C10-C40	<1 mg/kg	TM061	3.23	7.96	17.5	2.15	2.97	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @ M	0.014 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @ M	<0.015 @ M	<0.015 @ M	0.0234 @ M	0.0226 @ M	<0.015 @ M
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	0.0132 @ M	<0.01 @ M	<0.01 @ M	0.0234 @ M	<0.01 @ M	<0.01 @ M
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	0.132 @ M	0.056 @ M	<0.015 @ M	0.0936 @ M	0.0565 @ M	<0.015 @ M
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	0.145 @ M	<0.06 @ M	<0.06 @ M	0.14 @ M	0.0791 @ M	<0.06 @ M
Organic Carbon, Total	<0.2 %	TM132	2.54 M	3.42 M	1.67 M	1.34 M	0.667 M	0.247 M
pH	1 pH Units	TM133	7.65 M	7.74 M	7.64 M	7.84 M	8.33 M	9.35 M
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #
PCB congener 28	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.89 M	12.6 M	10.1 M	7.3 M	8.06 M	9.68 M
Cadmium	<0.02 mg/kg	TM181	0.649 M	0.609 M	0.419 M	0.25 M	0.581 M	0.678 M
Chromium	<0.9 mg/kg	TM181	12.2 M	15.7 M	10.8 M	4.9 M	10.3 M	5.36 M
Copper	<1.4 mg/kg	TM181	27 M	44.8 M	22.7 M	11.4 M	11.5 M	8.13 M
Lead	<0.7 mg/kg	TM181	60 M	97.8 M	56.3 M	20.8 M	22.1 M	8.6 M
Mercury	<0.14 mg/kg	TM181	0.415 M	0.559 M	0.193 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181	15.6 M	22 M	14.9 M	10.5 M	12.8 M	13.3 M
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	<1 #	<1 #	1.01 #
Zinc	<1.9 mg/kg	TM181	478 M	80.5 M	53.5 M	32.6 M	41 M	44.7 M
ANC @ pH 4	<0.03 mol/kg	TM182	0.358	0.507	0.234	0.384	0.17	0.293
ANC @ pH 6	<0.03 mol/kg	TM182	0.051	0.0726	0.0533	0.0748	0.0932	0.143
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH240	BH240	BH240	BH240	BH240	BH240
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.00 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241052	19241053	19241054	19241065	19241068	19241070
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	12	19	29	18	7.1	18
Loss on ignition	<0.7 %	TM018	3.82	5.45	5.95	2.06	1.36	2.25
Mineral Oil Surrogate % recovery**	%	TM061	81.2	75.4	81.2	74.7	72.3	74.7
Mineral oil >C10-C40	<1 mg/kg	TM061	2040	1190	6.3	<1	20.4	<1
Phenol	<0.01 mg/kg	TM062 (S)	0.0684 @ M	<0.01 M	<0.01 @ M	<0.01 M	<0.01 @ M	<0.01 @ M
Cresols	<0.01 mg/kg	TM062 (S)	0.0114 @ M	<0.01 M	<0.01 @ M	<0.01 M	<0.01 @ M	<0.01 @ M
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @ M	<0.015 M	<0.015 @ M	<0.015 M	<0.015 @ M	<0.015 @ M
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 M	<0.01 @ M	<0.01 M	<0.01 @ M	<0.01 @ M
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	0.0228 @ M	<0.015 M	<0.015 @ M	<0.015 M	<0.015 @ M	<0.015 @ M
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	0.103 @ M	<0.06 M	<0.06 @ M	<0.06 M	<0.06 @ M	<0.06 @ M
Organic Carbon, Total	<0.2 %	TM132	1.18 M	2.19 M	2.86 M	0.381 M	0.674 M	0.744 M
pH	1 pH Units	TM133	11.9 M	10.3 M	7.54 M	8.59 M	8.45 M	8.11 M
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #
PCB congener 28	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	9.27 M	8.59 M	15.5 M	6.01 M	7.92 M	10.6 M
Cadmium	<0.02 mg/kg	TM181	0.925 M	0.772 M	0.779 M	1.02 M	2.43 M	1.33 M
Chromium	<0.9 mg/kg	TM181	12 M	11.2 M	23.9 M	6.54 M	4.63 M	10.1 M
Copper	<1.4 mg/kg	TM181	34.1 M	28.1 M	39.4 M	12.3 M	19.2 M	20.1 M
Lead	<0.7 mg/kg	TM181	65.1 M	50.6 M	103 M	7.34 M	10.3 M	20.1 M
Mercury	<0.14 mg/kg	TM181	<0.14 M	<0.14 M	0.474 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181	18.9 M	15.5 M	26 M	19.9 M	26.1 M	29.8 M
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	1.47 #	2.3 #	1.64 #
Zinc	<1.9 mg/kg	TM181	289 M	146 M	94.5 M	74.9 M	61.7 M	69.2 M
ANC @ pH 4	<0.03 mol/kg	TM182	0.148	0.239	0.663	0.176	1.4	1.35
ANC @ pH 6	<0.03 mol/kg	TM182	0.094	0.0663	0.125	0.0671	0.148	0.146
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH240	BH240	BH240	BH240	BH242	BH242
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00	0.00 - 0.50	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241055	19241056	19241058	19241062	19241072	19241074
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	27	26	20	5.1	7.6	2.4
Loss on ignition	<0.7 %	TM018	5	5.05	1.47	0.806	1.58	8.6
Mineral Oil Surrogate % recovery**	%	TM061	82.8	77.8	75.4	73.4	74.8	76.5
Mineral oil >C10-C40	<1 mg/kg	TM061	115	5.39	7.62	<1	61.3	1.61
Phenol	<0.01 mg/kg	TM062 (S)	0.0274	0.0135	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	0.0137	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	0.0548	0.027	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	0.0959	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.38	2.98	0.567	0.405	0.811	0.901
pH	1 pH Units	TM133	7.78	7.49	8.39	9.01	10.2	7.58
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	12.2	11.1	5.93	5.29	10	9.31
Cadmium	<0.02 mg/kg	TM181	0.702	0.617	0.37	0.854	0.704	0.505
Chromium	<0.9 mg/kg	TM181	12.3	13	7.96	14.2	15.4	9.98
Copper	<1.4 mg/kg	TM181	46.6	42.6	6.74	48.6	19.5	20.1
Lead	<0.7 mg/kg	TM181	66.8	58.4	5.86	7.9	17.6	39.3
Mercury	<0.14 mg/kg	TM181	1.6	1.67	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	22.4	20	12.9	16.5	23.6	15.9
Selenium	<1 mg/kg	TM181	<1	1.01	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	77.5	71.8	33.7	513	68.1	52.4
ANC @ pH 4	<0.03 mol/kg	TM182	0.545	0.4	0.106	0.0562	0.315	0.172
ANC @ pH 6	<0.03 mol/kg	TM182	0.0682	0.106	0.0664	0.04	0.176	0.042
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH242	BH242	BH242	BH242	BH242	BH242
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241084	19241085	19241087	19241088	19241090	19241077
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	4.1	11	2.2	6.5	5.1	1.9
Loss on ignition	<0.7 %	TM018	0.941	1.28	1.75	1.14	1.37	16
Mineral Oil Surrogate % recovery**	%	TM061	79.1	77.8	74.2	75.4	78.2	76.3
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	26.4	31.6	26	1.09
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	0.0102
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.367	0.603	0.754	0.613	0.688	0.856
pH	1 pH Units	TM133	9.21	8.78	8.59	8.29	8.63	7.46
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0
PCB congener 28	<3 µg/kg	TM168		<3	<3	<3		<3
PCB congener 52	<3 µg/kg	TM168		<3	<3	<3		<3
PCB congener 101	<3 µg/kg	TM168		<3	<3	<3		<3
PCB congener 118	<3 µg/kg	TM168		<3	<3	<3		<3
PCB congener 138	<3 µg/kg	TM168		<3	<3	<3		<3
PCB congener 153	<3 µg/kg	TM168		<3	<3	<3		<3
PCB congener 180	<3 µg/kg	TM168		<3	<3	<3		<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21		<21
PCB congener 28	<3 µg/kg	TM168	<3				<3	
PCB congener 52	<3 µg/kg	TM168	<3				<3	
PCB congener 101	<3 µg/kg	TM168	<3				<3	
PCB congener 118	<3 µg/kg	TM168	<3				<3	
PCB congener 138	<3 µg/kg	TM168	<3				<3	
PCB congener 153	<3 µg/kg	TM168	<3				<3	
PCB congener 180	<3 µg/kg	TM168	<3				<3	
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21				<21	
Arsenic	<0.6 mg/kg	TM181	5.48	7.08	9.57	8.03	7.68	10.5
Cadmium	<0.02 mg/kg	TM181	1.33	1.63	1.71	1.3	1.57	0.71
Chromium	<0.9 mg/kg	TM181	6.61	5.57	7.36	7.16	6.83	12.2
Copper	<1.4 mg/kg	TM181	7.59	16.1	28.2	18.9	18.9	15.3
Lead	<0.7 mg/kg	TM181	6.07	13.3	13	10.6	14	27.4
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	17.8	25	32.6	27.5	28.1	16.1



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH242	BH242	BH242	BH242	BH242	BH242
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241084	19241085	19241087	19241088	19241090	19241077
		AGS Reference						
Component	LOD/Units	Method						
Selenium	<1 mg/kg	TM181	1.46	2.25	2.79	2.07	1.96	<1
			#	#	#	#	#	#
Zinc	<1.9 mg/kg	TM181	123	71.8	82.4	58	66.3	59.8
			M	M	M	M	M	M
ANC @ pH 4	<0.03 mol/kg	TM182	0.35	0.942	1.16	0.818	1.31	0.218
ANC @ pH 6	<0.03 mol/kg	TM182	0.0956	0.167	0.288	0.145	0.199	0.031
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH242	BH242	BH242			
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00			
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
		Date Sampled	29/01/2019	29/01/2019	29/01/2019			
		Date Received	30/01/2019	30/01/2019	30/01/2019			
		SDG Ref	190131-64	190131-64	190131-64			
		Lab Sample No.(s)	19241079	19241080	19241082			
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	12	11	5.8			
Loss on ignition	<0.7 %	TM018	1.46	1.16	<0.7			
Mineral Oil Surrogate % recovery**	%	TM061	78	78	78.8			
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	<1			
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015			
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015			
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06			
Organic Carbon, Total	<0.2 %	TM132	0.5	0.348	0.355			
pH	1 pH Units	TM133	8.33	8.51	8.68			
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6			
PCB congener 28	<3 µg/kg	TM168	5.16	<3				
PCB congener 52	<3 µg/kg	TM168	44.1	<3				
PCB congener 101	<3 µg/kg	TM168	66.3	<3				
PCB congener 118	<3 µg/kg	TM168	56.2	<3				
PCB congener 138	<3 µg/kg	TM168	46.1	<3				
PCB congener 153	<3 µg/kg	TM168	33.1	<3				
PCB congener 180	<3 µg/kg	TM168	9.22	<3				
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	260	<21				
PCB congener 28	<3 µg/kg	TM168			<3			
PCB congener 52	<3 µg/kg	TM168			<3			
PCB congener 101	<3 µg/kg	TM168			<3			
PCB congener 118	<3 µg/kg	TM168			<3			
PCB congener 138	<3 µg/kg	TM168			<3			
PCB congener 153	<3 µg/kg	TM168			<3			
PCB congener 180	<3 µg/kg	TM168			<3			
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168			<21			
Arsenic	<0.6 mg/kg	TM181	8.55	14.5	5.96			
Cadmium	<0.02 mg/kg	TM181	0.713	0.355	1.06			
Chromium	<0.9 mg/kg	TM181	9.42	6.19	7.46			
Copper	<1.4 mg/kg	TM181	14.9	7.81	7			
Lead	<0.7 mg/kg	TM181	87.4	10.4	6.33			
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14			
Nickel	<0.2 mg/kg	TM181	18.8	15.8	11.6			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH239	BH239	BH239	BH239	BH239	BH239
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.00 - 1.00	1.00 - 2.00	11.00 - 12.00	15.00 - 16.00	16.00 - 17.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241032	19241033	19241034	19241046	19241050	19241051
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	113	107	112	110	109	110
Acenaphthene-d10 % recovery**	%	TM218	120	100	105	102	108	98.1
Phenanthrene-d10 % recovery**	%	TM218	105	99.6	107	98.6	103	96.8
Chrysene-d12 % recovery**	%	TM218	101	96.7	104	92.7	93.4	84
Perylene-d12 % recovery**	%	TM218	104	97.9	104	91	82.1	77.7
Naphthalene	<9 µg/kg	TM218	491	65.6	213	14.9	39.2	32.4
Acenaphthylene	<12 µg/kg	TM218	162	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	232	21.8	384	<8	11	<8
Fluorene	<10 µg/kg	TM218	154	27.9	57.3	<10	23.3	21.5
Phenanthrene	<15 µg/kg	TM218	917	111	79.5	<15	69.9	69.6
Anthracene	<16 µg/kg	TM218	253	34.3	53.1	<16	71.5	<16
Fluoranthene	<17 µg/kg	TM218	667	82.8	181	<17	<17	<17
Pyrene	<15 µg/kg	TM218	523	62.2	142	<15	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218	177	33.4	85.9	<14	<14	<14
Chrysene	<10 µg/kg	TM218	211	31.8	61.6	<10	<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	541	36.4	60	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	148	<14	30.4	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	209	23.8	60.5	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	333	<18	27.2	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	78.3	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	398	<24	38.3	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	5500	531	1470	<118	215	123



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH239	BH239	BH239	BH239	BH239	BH239	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	
tot.unfilt	Total / unfiltered sample.		190131-64	190131-64	190131-64	190131-64	190131-64	190131-64	
*	Subcontracted - refer to subcontractor report for accreditation status.		19241035	19241036	19241037	19241038	19241039	19241041	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	111	109	112	109	112	110
Acenaphthene-d10 % recovery**	%	TM218	113	110	104	110	102	110	
Phenanthrene-d10 % recovery**	%	TM218	112	109	107	109	99.2	106	
Chrysene-d12 % recovery**	%	TM218	108	104	102	106	94.2	99.6	
Perylene-d12 % recovery**	%	TM218	109	102	99.3	105	94.4	98.5	
Naphthalene	<9 µg/kg	TM218	242	169	65.4	50.5	29	<9	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12	
Acenaphthene	<8 µg/kg	TM218	81.8	114	33.2	34.5	15.6	<8	
Fluorene	<10 µg/kg	TM218	52.7	61.9	17.8	24.7	<10	<10	
Phenanthrene	<15 µg/kg	TM218	134	164	47.6	59.6	28.9	<15	
Anthracene	<16 µg/kg	TM218	52.4	63.5	23	22	<16	<16	
Fluoranthene	<17 µg/kg	TM218	165	202	74	63	31.6	<17	
Pyrene	<15 µg/kg	TM218	137	160	59.4	48.5	23.8	<15	
Benz(a)anthracene	<14 µg/kg	TM218	70.4	91.6	36.6	30.1	<14	<14	
Chrysene	<10 µg/kg	TM218	54.8	70.5	23.7	27.9	14.4	<10	
Benzo(b)fluoranthene	<15 µg/kg	TM218	64.2	87.7	<15	28.9	<15	<15	
Benzo(k)fluoranthene	<14 µg/kg	TM218	27.9	39.8	<14	<14	<14	<14	
Benzo(a)pyrene	<15 µg/kg	TM218	51.7	68.2	24.7	20	<15	<15	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	28	<18	<18	<18	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	37.3	<24	<24	<24	<24	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1130	1360	405	410	143	<118	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH240	BH240	BH240	BH240	BH242	BH242
#	ISO17025 accredited.	Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00	0.00 - 0.50	1.00 - 2.00
M	mCERTS accredited.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.	Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	29/01/2019	29/01/2019
diss.filt	Dissolved / filtered sample.	Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
tot.unfilt	Total / unfiltered sample.	SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
*	Subcontracted - refer to subcontractor report for accreditation status.	Lab Sample No.(s)	19241055	19241056	19241058	19241062	19241072	19241074
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	107	106	109	114	90.9	92.5
Acenaphthene-d10 % recovery**	%	TM218	110	102	109	113	82.2	93.9
Phenanthrene-d10 % recovery**	%	TM218	111	106	106	113	86.4	97.5
Chrysene-d12 % recovery**	%	TM218	102	99.9	102	119	70.4	90.1
Perylene-d12 % recovery**	%	TM218	102	97.7	102	113	71.6	85.6
Naphthalene	<9 µg/kg	TM218	158	334	18.7	<9	<45	<9
			M	M	M	M	@ M	@ M
Acenaphthylene	<12 µg/kg	TM218	32.8	54.9	<12	<12	<60	<12
			M	M	M	M	@ M	@ M
Acenaphthene	<8 µg/kg	TM218	102	170	<8	<8	<40	<8
			M	M	M	M	@ M	@ M
Fluorene	<10 µg/kg	TM218	237	369	<10	<10	<50	<10
			M	M	M	M	@ M	@ M
Phenanthrene	<15 µg/kg	TM218	779	1150	51.6	<15	<75	46.5
			M	M	M	M	@ M	@ M
Anthracene	<16 µg/kg	TM218	341	518	<16	<16	<80	22.3
			M	M	M	M	@ M	@ M
Fluoranthene	<17 µg/kg	TM218	864	1390	48.3	<17	118	90.5
			M	M	M	M	@ M	@ M
Pyrene	<15 µg/kg	TM218	633	1010	34.5	<15	110	79.5
			M	M	M	M	@ M	@ M
Benz(a)anthracene	<14 µg/kg	TM218	391	672	22.9	<14	102	61.3
			M	M	M	M	@ M	@ M
Chrysene	<10 µg/kg	TM218	298	608	18.1	<10	74.8	39.6
			M	M	M	M	@ M	@ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	346	637	<15	<15	<75	44.9
			M	M	M	M	@ M	@ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	147	338	<14	<14	<70	15.7
			M	M	M	M	@ M	@ M
Benzo(a)pyrene	<15 µg/kg	TM218	289	444	<15	<15	<75	43.4
			M	M	M	M	@ M	@ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	113	139	<18	<18	<90	<18
			M	M	M	M	@ M	@ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	45.3	44.9	<23	<23	<115	<23
			M	M	M	M	@ M	@ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	132	182	<24	<24	<120	<24
			M	M	M	M	@ M	@ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4910	8060	194	<118	<590	444



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH242	BH242	BH242	BH242	BH242	BH242	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	3.00 - 4.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	
tot.unfilt	Total / unfiltered sample.		190131-64	190131-64	190131-64	190131-64	190131-64	190131-64	
*	Subcontracted - refer to subcontractor report for accreditation status.		19241084	19241085	19241087	19241088	19241090	19241077	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	92	90.8	91	90.6	91.7	91.2
Acenaphthene-d10 % recovery**	%	TM218	92.9	92.8	92.9	92.8	93.5	94.5	
Phenanthrene-d10 % recovery**	%	TM218	100	96.2	93.3	93.2	92.6	98.4	
Chrysene-d12 % recovery**	%	TM218	100	93.7	84.5	82.1	86.6	96.5	
Perylene-d12 % recovery**	%	TM218	99.6	88	74.6	70.2	78.1	96.1	
Naphthalene	<9 µg/kg	TM218	<9	<9	10.2	15.7	10.4	<9	
			@ M	@ M	@ M	@ M	@ M	@ M	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12	
			@ M	@ M	@ M	@ M	@ M	@ M	
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	<8	<8	
			@ M	@ M	@ M	@ M	@ M	@ M	
Fluorene	<10 µg/kg	TM218	<10	<10	11	13.6	<10	<10	
			@ M	@ M	@ M	@ M	@ M	@ M	
Phenanthrene	<15 µg/kg	TM218	<15	<15	46.2	60.9	40.1	15.7	
			@ M	@ M	@ M	@ M	@ M	@ M	
Anthracene	<16 µg/kg	TM218	<16	<16	<16	<16	<16	<16	
			@ M	@ M	@ M	@ M	@ M	@ M	
Fluoranthene	<17 µg/kg	TM218	<17	<17	<17	<17	<17	42.8	
			@ M	@ M	@ M	@ M	@ M	@ M	
Pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	<15	36.6	
			@ M	@ M	@ M	@ M	@ M	@ M	
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	18	<14	33.3	
			@ M	@ M	@ M	@ M	@ M	@ M	
Chrysene	<10 µg/kg	TM218	<10	<10	<10	11.1	<10	23.6	
			@ M	@ M	@ M	@ M	@ M	@ M	
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	<15	<15	23.7	
			@ M	@ M	@ M	@ M	@ M	@ M	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	<14	<14	
			@ M	@ M	@ M	@ M	@ M	@ M	
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	<15	23.2	
			@ M	@ M	@ M	@ M	@ M	@ M	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	<18	<18	
			@ M	@ M	@ M	@ M	@ M	@ M	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23	
			@ M	@ M	@ M	@ M	@ M	@ M	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	<24	<24	
			@ M	@ M	@ M	@ M	@ M	@ M	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	<118	119	<118	199	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH239	BH239	BH239	BH239	BH239	BH239
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241035	19241036	19241037	19241038	19241039	19241041
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	84.2	86.6	77.6	89.2	110	81.9
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	453	197	<100	125	334	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	26.4	22.4	10.2	14	27.1	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	43.6	30.8	14.1	21.1	57.6	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	79.2	39.2	16.6	23.4	62.2	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	149	46.2	19.2	30.4	87	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	8560	2440	924	2560	2100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	19800	6890	3250	4940	4850	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	24600	33900	15400	8800	4910	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	4650	9100	3610	1880	869	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	57700	52300	23200	18200	12700	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	52.8	26.6	11.5	16.4	41.8	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	99	30.8	12.8	19.9	57.6	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	4840	3010	1050	1540	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	20500	16600	7710	6710	1780	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	73800	75800	38000	20000	5560	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	16300	16800	9500	2000	753	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	5060	4840	3110	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	115000	112000	56300	30200	8090	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	174000	165000	79500	48500	21200	<100



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH240	BH240	BH240	BH240	BH240	BH240
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*5@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.00 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241052	19241053	19241054	19241065	19241068	19241070
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	78.6	73.3	79.7	104	18	18
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	5580	11100	572	<100	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	25.1	30.8	36.9	13.5	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	55.9	61.5	45.4	35.7	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	309	839	83.8	27.1	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	2990	5780	210	12.3	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	174000	113000	2570	<100	3490	1570
Aliphatics >C16-C21	<100 µg/kg	TM173	133000	83200	3230	<100	3420	1450
Aliphatics >C21-C35	<100 µg/kg	TM173	943000	708000	28500	<100	14000	5770
Aliphatics >C35-C44	<100 µg/kg	TM173	359000	342000	7130	<100	4750	2100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1610000	1250000	41500	<100	25700	10900
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	205	560	55.4	18.5	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	1990	3850	141	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	50700	29800	3620	<100	1010	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	81400	47600	16400	<100	2020	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	440000	253000	66700	<100	7460	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	175000	122000	11900	<100	2700	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	54000	38700	1970	<100	1040	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	747000	452000	98600	<100	13200	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2360000	1710000	141000	<100	38900	10900



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH240	BH240	BH240	BH240	BH242	BH242
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00	0.00 - 0.50	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241055	19241056	19241058	19241062	19241072	19241074
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	74.8	90.6	110	99	30.4	77
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	854	512	500	<100	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	31.5	27	32.8	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	46.6	36.5	68	13.7	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	158	79.7	92	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	307	188	146	11.6	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	3500	4130	915	<100	<100	223
Aliphatics >C16-C21	<100 µg/kg	TM173	15000	6410	955	<100	<100	446
Aliphatics >C21-C35	<100 µg/kg	TM173	11800	45300	14100	<100	11400	4590
Aliphatics >C35-C44	<100 µg/kg	TM173	5600	12700	6000	<100	11500	801
Total Aliphatics >C12-C44	<100 µg/kg	TM173	35800	68500	22000	<100	22900	6060
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	104	52.7	61.7	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	206	126	97	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	7600	8430	<100	<100	<100	796
Aromatics >EC16-EC21	<100 µg/kg	TM173	184000	55400	6990	<100	967	4370
Aromatics >EC21-EC35	<100 µg/kg	TM173	117000	129000	14400	<100	38700	24900
Aromatics >EC35-EC44	<100 µg/kg	TM173	15800	27600	2480	<100	48600	4970
Aromatics >EC40-EC44	<100 µg/kg	TM173	5230	7950	<100	<100	23000	1880
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	324000	221000	23800	<100	88300	35100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	361000	290000	46300	<100	111000	41100



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH242	BH242	BH242	BH242	BH242	BH242
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241084	19241085	19241087	19241088	19241090	19241077
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	74.1	24.6	15.4	10	27.1	127
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	<100	<100	<100	<100	238
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	<10	<10	17.3
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	53
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10	<10	<10	<10	60.1
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10	<10	<10	<10	39.7
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	466	2740	1990	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	3030	958	<100	558
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	564	13600	22500	36800	908
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	772	5840	12400	22400	165
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	1800	25200	37800	59100	1630
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10	<10	<10	<10	39.7
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	<10	<10	<10	26.5
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	212	991	355	462	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	1510	392	349	6250
Aromatics >EC21-EC35	<100 µg/kg	TM173	896	<100	5230	4920	11100	22400
Aromatics >EC35-EC44	<100 µg/kg	TM173	414	<100	1150	2100	8800	9220
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	294	<100	600	3980	5010
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1310	212	8880	7770	20700	37900
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1310	2010	34100	45600	79900	39700



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH239	BH239	BH239	BH239	BH239	BH239
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.00 - 1.00	1.00 - 2.00	11.00 - 12.00	15.00 - 16.00	16.00 - 17.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019
		Date Received	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019
		SDG Ref	190131-64	190131-64	190131-64	190131-64	190131-64	190131-64
		Lab Sample No.(s)	19241032	19241033	19241034	19241046	19241050	19241051
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	133	134	111	111	104	131
Toluene-d8**	%	TM116	104	102	99.1	100	101	98.1
4-Bromofluorobenzene**	%	TM116	90.5	90.4	92.5	97	105	74.9
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<200	<2000	<200
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<180	<180	<180	<180	<1800	<180
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<140	<140	<140	<140	<1400	<140
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<80	<800	<80
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<2000	<200
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<2000	<200
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.4	<4	<0.4
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<800	<8000	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH240	BH240	BH240	BH240	BH242	BH242	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00	0.00 - 0.50	1.00 - 2.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		24/01/2019	24/01/2019	24/01/2019	24/01/2019	29/01/2019	29/01/2019	
diss.filt	Dissolved / filtered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	
tot.unfilt	Total / unfiltered sample.		190131-64	190131-64	190131-64	190131-64	190131-64	190131-64	
*	Subcontracted - refer to subcontractor report for accreditation status.		19241055	19241056	19241058	19241062	19241072	19241074	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%		TM116	114	119	112	127	122	132
Toluene-d8**	%	TM116	98.8	99.1	101	101	95.6	102	
4-Bromofluorobenzene**	%	TM116	94.3	96.1	97.9	95	86	89.8	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
Benzene	<9 µg/kg	TM116	<180	<180	<180	<180	<180	<180	
Toluene	<7 µg/kg	TM116	<140	<140	<140	<140	<140	<140	
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<80	<80	<80	
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<800	<800	<800	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH242	BH242	BH242	BH242	BH242	BH242	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH242	BH242	BH242	BH242	BH242	BH242	
M	mCERTS accredited.		10.00 - 11.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	3.00 - 4.00	
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
diss.filt	Dissolved / filtered sample.		29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	29/01/2019	
tot.unfilt	Total / unfiltered sample.		30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	30/01/2019	
*	Subcontracted - refer to subcontractor report for accreditation status.		190131-64	190131-64	190131-64	190131-64	190131-64	190131-64	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.		19241084	19241085	19241087	19241088	19241090	19241077	
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%		TM116	111	110	116	106	117	130
Toluene-d8**	%	TM116	98.6	98.7	96.8	101	97.2	102	
4-Bromofluorobenzene**	%	TM116	96.5	89.3	74.8	102	82.9	90.5	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<2000	<200	<200	
Benzene	<9 µg/kg	TM116	<180	<180	<180	<1800	<180	<180	
Toluene	<7 µg/kg	TM116	<140	<140	<140	<1400	<140	<140	
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<800	<80	<80	
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<2000	<200	<200	
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<2000	<200	<200	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<4	<0.4	<0.4	
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<8000	<800	<800	



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+§@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre	
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 0.00 - 0.50 SOLID 24/01/2019 00:00:00 02/02/2019 14:51:04 190131-64 19,241,032 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 0.00 - 1.00 SOLID 24/01/2019 00:00:00 02/02/2019 14:50:27 190131-64 19,241,033 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 1.00 - 2.00 SOLID 24/01/2019 00:00:00 04/02/2019 15:57:36 190131-64 19,241,034 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 11.00 - 12.00 SOLID 24/01/2019 00:00:00 05/02/2019 15:16:37 190131-64 19,241,046 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 15.00 - 16.00 SOLID 24/01/2019 00:00:00 03/02/2019 07:36:52 190131-64 19,241,050 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 16.00 - 17.00 SOLID 24/01/2019 00:00:00 04/02/2019 16:04:57 190131-64 19,241,051 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 2.00 - 3.00 SOLID 24/01/2019 00:00:00 04/02/2019 15:59:09 190131-64 19,241,035 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 3.00 - 4.00 SOLID 24/01/2019 00:00:00 03/02/2019 08:13:38 190131-64 19,241,036 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 4.00 - 5.00 SOLID 24/01/2019 00:00:00 04/02/2019 16:11:10 190131-64 19,241,037 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 5.00 - 6.00 SOLID 24/01/2019 00:00:00 02/02/2019 08:57:59 190131-64 19,241,038 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 6.00 - 7.00 SOLID 24/01/2019 00:00:00 05/02/2019 14:17:02 190131-64 19,241,039 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH239 NS Z 8.00 - 9.00 SOLID 24/01/2019 00:00:00 05/02/2019 14:42:34 190131-64 19,241,041 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 0.00 - 0.50 SOLID 24/01/2019 00:00:00 05/02/2019 14:14:42 190131-64 19,241,052 TM048	7/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 0.00 - 1.00 SOLID 24/01/2019 00:00:00 05/02/2019 14:43:41 190131-64 19,241,053 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 1.00 - 2.00 SOLID 24/01/2019 00:00:00 02/02/2019 09:43:50 190131-64 19,241,054 TM048	06/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 11.00 - 12.00 SOLID 24/01/2019 00:00:00 02/02/2019 08:54:43 190131-64 19,241,065 TM048	06/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 13.00 - 14.00 SOLID 24/01/2019 00:00:00 05/02/2019 14:15:35 190131-64 19,241,068 TM048	7/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 15.00 - 16.00 SOLID 24/01/2019 00:00:00 05/02/2019 14:52:42 190131-64 19,241,070 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 2.00 - 3.00 SOLID 24/01/2019 00:00:00 05/02/2019 14:56:17 190131-64 19,241,055 TM048	07/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 3.00 - 4.00 SOLID 24/01/2019 00:00:00 05/02/2019 14:58:05 190131-64 19,241,056 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 5.00 - 6.00 SOLID 24/01/2019 00:00:00 05/02/2019 14:54:22 190131-64 19,241,058 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH240 NS Z 8.00 - 9.00 SOLID 24/01/2019 00:00:00 03/02/2019 07:38:21 190131-64 19,241,062 TM048	6/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 0.00 - 0.50 SOLID 29/01/2019 00:00:00 05/02/2019 19:37:15 190131-64 19,241,072 TM048	13/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 1.00 - 2.00 SOLID 29/01/2019 00:00:00 06/02/2019 21:00:04 190131-64 19,241,074 TM048	13/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 10.00 - 11.00 SOLID 29/01/2019 00:00:00 05/02/2019 14:40:35 190131-64 19,241,084 TM048	13/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 11.00 - 12.00 SOLID 29/01/2019 00:00:00 06/02/2019 21:00:09 190131-64 19,241,085 TM048	13/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 13.00 - 14.00 SOLID 29/01/2019 00:00:00 04/02/2019 16:09:16 190131-64 19,241,087 TM048	13/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 14.00 - 15.00 SOLID 29/01/2019 00:00:00 06/02/2019 21:05:24 190131-64 19,241,088 TM048	13/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 16.00 - 17.00 SOLID 29/01/2019 00:00:00 09/02/2019 11:25:10 190131-64 19,241,090 TM048	13/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 3.00 - 4.00 SOLID 29/01/2019 00:00:00 04/02/2019 16:06:58 190131-64 19,241,077 TM048	13/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 5.00 - 6.00 SOLID 29/01/2019 00:00:00 06/02/2019 21:03:02 190131-64 19,241,079 TM048	13/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 6.00 - 7.00 SOLID 29/01/2019 00:00:00 06/02/2019 21:03:59 190131-64 19,241,080 TM048	13/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH242 NS Z 8.00 - 9.00 SOLID 29/01/2019 00:00:00 06/02/2019 20:55:21 190131-64 19,241,082 TM048	13/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.0
Dry Matter Content (%)	90.9

Case	
SDG	190131-64
Lab Sample Number(s)	19241032
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.820
Loss on Ignition (%)	3.21
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1330
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.43
ANC to pH 6 (mol/kg)	0.109
ANC to pH 4 (mol/kg)	0.211

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00198	<0.0005	0.0198	<0.005	0.5	2	25
Barium	0.0155	<0.0002	0.155	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00488	<0.001	0.0488	<0.01	0.5	10	70
Copper	0.0174	<0.0003	0.174	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0057	<0.003	0.057	<0.03	0.5	10	30
Nickel	0.0108	<0.0004	0.108	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00327	<0.001	0.0327	<0.01	0.06	0.7	5
Selenium	0.0025	<0.001	0.025	<0.01	0.1	0.5	7
Zinc	0.00129	<0.001	0.0129	<0.01	4	50	200
Chloride	11.7	<2	117	<20	800	15000	25000
Fluoride	0.51	<0.5	5.1	<5	10	150	500
Sulphate (soluble)	62.5	<2	625	<20	1000	20000	50000
Total Dissolved Solids	549	<5	5490	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.5	<3	145	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	11.22
Conductivity (µS/cm)	802
Temperature (°C)	17.60
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:32:16



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.9
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241032
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.820
Loss on Ignition (%)	3.21
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1330
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.43
ANC to pH 6 (mol/kg)	0.109
ANC to pH 4 (mol/kg)	0.211

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	11.22
Conductivity (µS/cm)	802
Temperature (°C)	17.60
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:32:16



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241033
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.61
Loss on Ignition (%)	3.18
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	23.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0635
ANC to pH 4 (mol/kg)	0.436

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00758	<0.0005	0.0758	<0.005	0.5	2	25
Barium	0.0053	<0.0002	0.053	<0.002	20	100	300
Cadmium	0.000108	<0.00008	0.00108	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00564	<0.0003	0.0564	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.068	<0.003	0.68	<0.03	0.5	10	30
Nickel	0.00224	<0.0004	0.0224	<0.004	0.4	10	40
Lead	0.00135	<0.0002	0.0135	<0.002	0.5	10	50
Antimony	0.00792	<0.001	0.0792	<0.01	0.06	0.7	5
Selenium	0.00226	<0.001	0.0226	<0.01	0.1	0.5	7
Zinc	0.00228	<0.001	0.0228	<0.01	4	50	200
Chloride	17.6	<2	176	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	32.2	<2	322	<20	1000	20000	50000
Total Dissolved Solids	129	<5	1290	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.9	<3	149	<30	500	800	1000

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.79
Conductivity (µS/cm)	170
Temperature (°C)	17.90
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241033
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.61
Loss on Ignition (%)	3.18
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	23.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0635
ANC to pH 4 (mol/kg)	0.436

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	05-Feb-2019
pH (pH Units)	8.79
Conductivity (µS/cm)	170
Temperature (°C)	17.90
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.121
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241034
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.62
Loss on Ignition (%)	3.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0569
ANC to pH 4 (mol/kg)	0.297

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00226	<0.0005	0.0226	<0.005	0.5	2	25
Barium	0.01	<0.0002	0.1	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000709	<0.0003	0.00709	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0448	<0.003	0.448	<0.03	0.5	10	30
Nickel	0.00113	<0.0004	0.0113	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00453	<0.001	0.0453	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00254	<0.001	0.0254	<0.01	4	50	200
Chloride	6	<2	60	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	83.5	<2	835	<20	1000	20000	50000
Total Dissolved Solids	222	<5	2220	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.93	<3	99.3	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.28
Conductivity (µS/cm)	28.0
Temperature (°C)	14.90
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.121	Natural Moisture Content (%)	35.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	74.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241034
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.62
Loss on Ignition (%)	3.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0569
ANC to pH 4 (mol/kg)	0.297

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.28
Conductivity (µS/cm)	28.0
Temperature (°C)	14.90
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241035
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.54
Loss on Ignition (%)	4.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.23
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.65
ANC to pH 6 (mol/kg)	0.0510
ANC to pH 4 (mol/kg)	0.358

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00299	<0.0005	0.0299	<0.005	0.5	2	25
Barium	0.00712	<0.0002	0.0712	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0239	<0.003	0.239	<0.03	0.5	10	30
Nickel	0.000741	<0.0004	0.00741	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00263	<0.001	0.0263	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00456	<0.001	0.0456	<0.01	4	50	200
Chloride	4.8	<2	48	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	66	<2	660	<20	1000	20000	50000
Total Dissolved Solids	191	<5	1910	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.02	<0.016	0.2	<0.16	1	-	-
Dissolved Organic Carbon	8.91	<3	89.1	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.41
Conductivity (µS/cm)	246
Temperature (°C)	15.90
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241035
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.54
Loss on Ignition (%)	4.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.23
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.65
ANC to pH 6 (mol/kg)	0.0510
ANC to pH 4 (mol/kg)	0.358

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.41
Conductivity (µS/cm)	246
Temperature (°C)	15.90
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.125
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.9
Dry Matter Content (%)	72.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241036
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.42
Loss on Ignition (%)	7.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.96
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0726
ANC to pH 4 (mol/kg)	0.507

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00573	<0.0005	0.0573	<0.005	0.5	2	25
Barium	0.00936	<0.0002	0.0936	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0284	<0.003	0.284	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00243	<0.001	0.0243	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00353	<0.001	0.0353	<0.01	4	50	200
Chloride	6.1	<2	61	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	82.3	<2	823	<20	1000	20000	50000
Total Dissolved Solids	231	<5	2310	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.5	<3	115	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	6.53
Conductivity (µS/cm)	312
Temperature (°C)	17.70
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.125	Natural Moisture Content (%)	38.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	72.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241036
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.42
Loss on Ignition (%)	7.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.96
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0726
ANC to pH 4 (mol/kg)	0.507

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	6.53
Conductivity (µS/cm)	312
Temperature (°C)	17.70
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241037
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.67
Loss on Ignition (%)	3.73
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0533
ANC to pH 4 (mol/kg)	0.234

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00634	<0.0005	0.0634	<0.005	0.5	2	25
Barium	0.0122	<0.0002	0.122	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0352	<0.003	0.352	<0.03	0.5	10	30
Nickel	0.00162	<0.0004	0.0162	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0033	<0.001	0.033	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00457	<0.001	0.0457	<0.01	4	50	200
Chloride	4.7	<2	47	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	112	<2	1120	<20	1000	20000	50000
Total Dissolved Solids	304	<5	3040	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.3	<3	103	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.69
Conductivity (µS/cm)	410
Temperature (°C)	13.80
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.115	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241037
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.67
Loss on Ignition (%)	3.73
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0533
ANC to pH 4 (mol/kg)	0.234

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.69
Conductivity (µS/cm)	410
Temperature (°C)	13.80
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241038
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.34
Loss on Ignition (%)	2.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.15
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.84
ANC to pH 6 (mol/kg)	0.0748
ANC to pH 4 (mol/kg)	0.384

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00627	<0.0005	0.0627	<0.005	0.5	2	25
Barium	0.00963	<0.0002	0.0963	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0247	<0.003	0.247	<0.03	0.5	10	30
Nickel	0.00121	<0.0004	0.0121	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00387	<0.001	0.0387	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00238	<0.001	0.0238	<0.01	4	50	200
Chloride	9.7	<2	97	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	98.6	<2	986	<20	1000	20000	50000
Total Dissolved Solids	286	<5	2860	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.94	<3	69.4	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.74
Conductivity (µS/cm)	389
Temperature (°C)	14.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241038
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.34
Loss on Ignition (%)	2.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.15
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.84
ANC to pH 6 (mol/kg)	0.0748
ANC to pH 4 (mol/kg)	0.384

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.74
Conductivity (µS/cm)	389
Temperature (°C)	14.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241039
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.667
Loss on Ignition (%)	1.80
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.97
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0932
ANC to pH 4 (mol/kg)	0.170

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00309	<0.0005	0.0309	<0.005	0.5	2	25
Barium	0.00557	<0.0002	0.0557	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0122	<0.003	0.122	<0.03	0.5	10	30
Nickel	0.00103	<0.0004	0.0103	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00358	<0.001	0.0358	<0.01	0.06	0.7	5
Selenium	0.00157	<0.001	0.0157	<0.01	0.1	0.5	7
Zinc	0.00134	<0.001	0.0134	<0.01	4	50	200
Chloride	7.9	<2	79	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.3	<2	543	<20	1000	20000	50000
Total Dissolved Solids	171	<5	1710	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.89
Conductivity (µS/cm)	226
Temperature (°C)	17.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241039
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.667
Loss on Ignition (%)	1.80
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.97
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0932
ANC to pH 4 (mol/kg)	0.170

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.89
Conductivity (µS/cm)	226
Temperature (°C)	17.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241041
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.247
Loss on Ignition (%)	1.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.35
ANC to pH 6 (mol/kg)	0.143
ANC to pH 4 (mol/kg)	0.293

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00255	<0.0005	0.0255	<0.005	0.5	2	25
Barium	0.00307	<0.0002	0.0307	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00217	<0.001	0.0217	<0.01	0.1	0.5	7
Zinc	0.00101	<0.001	0.0101	<0.01	4	50	200
Chloride	29.2	<2	292	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10.7	<2	107	<20	1000	20000	50000
Total Dissolved Solids	129	<5	1290	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	9.11
Conductivity (µS/cm)	166
Temperature (°C)	17.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241041
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.247
Loss on Ignition (%)	1.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.35
ANC to pH 6 (mol/kg)	0.143
ANC to pH 4 (mol/kg)	0.293

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	9.11
Conductivity (µS/cm)	166
Temperature (°C)	17.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241046
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.477
Loss on Ignition (%)	1.43
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.65
ANC to pH 6 (mol/kg)	0.199
ANC to pH 4 (mol/kg)	0.673

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00109	<0.0005	0.0109	<0.005	0.5	2	25
Barium	0.0505	<0.0002	0.505	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0105	<0.003	0.105	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00242	<0.001	0.0242	<0.01	0.06	0.7	5
Selenium	0.0242	<0.001	0.242	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	133	<2	1330	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	30.6	<2	306	<20	1000	20000	50000
Total Dissolved Solids	384	<5	3840	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.73
Conductivity (µS/cm)	511
Temperature (°C)	17.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241046
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.477
Loss on Ignition (%)	1.43
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.65
ANC to pH 6 (mol/kg)	0.199
ANC to pH 4 (mol/kg)	0.673

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.73
Conductivity (µS/cm)	511
Temperature (°C)	17.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.76
Dry Matter Content (%)	92.8

Case	
SDG	190131-64
Lab Sample Number(s)	19241050
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.736
Loss on Ignition (%)	1.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	9.71
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.38
ANC to pH 6 (mol/kg)	0.110
ANC to pH 4 (mol/kg)	1.02

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0425	<0.0002	0.425	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000373	<0.0003	0.00373	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0253	<0.003	0.253	<0.03	0.5	10	30
Nickel	0.0013	<0.0004	0.013	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00252	<0.001	0.0252	<0.01	0.06	0.7	5
Selenium	0.0372	<0.001	0.372	<0.01	0.1	0.5	7
Zinc	0.00163	<0.001	0.0163	<0.01	4	50	200
Chloride	135	<2	1350	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	46.4	<2	464	<20	1000	20000	50000
Total Dissolved Solids	399	<5	3990	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.99
Conductivity (µS/cm)	534
Temperature (°C)	13.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.76
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.8
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241050
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.736
Loss on Ignition (%)	1.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	9.71
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.38
ANC to pH 6 (mol/kg)	0.110
ANC to pH 4 (mol/kg)	1.02

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.99
Conductivity (µS/cm)	534
Temperature (°C)	13.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.72
Dry Matter Content (%)	93.7

Case	
SDG	190131-64
Lab Sample Number(s)	19241051
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.629
Loss on Ignition (%)	2.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.128
ANC to pH 4 (mol/kg)	0.950

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00102	<0.0005	0.0102	<0.005	0.5	2	25
Barium	0.0436	<0.0002	0.436	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0222	<0.003	0.222	<0.03	0.5	10	30
Nickel	0.00129	<0.0004	0.0129	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00241	<0.001	0.0241	<0.01	0.06	0.7	5
Selenium	0.0328	<0.001	0.328	<0.01	0.1	0.5	7
Zinc	0.0021	<0.001	0.021	<0.01	4	50	200
Chloride	123	<2	1230	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	43.8	<2	438	<20	1000	20000	50000
Total Dissolved Solids	367	<5	3670	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.23	<3	32.3	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	507
Temperature (°C)	17.30
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.72
Dry Matter Content (%)	93.7

Case	
SDG	190131-64
Lab Sample Number(s)	19241051
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH239
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.629
Loss on Ignition (%)	2.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.128
ANC to pH 4 (mol/kg)	0.950

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	507
Temperature (°C)	17.30
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241052
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.18
Loss on Ignition (%)	3.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2040
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.92
ANC to pH 6 (mol/kg)	0.0940
ANC to pH 4 (mol/kg)	0.148

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00692	<0.0005	0.0692	<0.005	0.5	2	25
Barium	0.0355	<0.0002	0.355	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0231	<0.001	0.231	<0.01	0.5	10	70
Copper	0.0533	<0.0003	0.533	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0164	<0.003	0.164	<0.03	0.5	10	30
Nickel	0.00955	<0.0004	0.0955	<0.004	0.4	10	40
Lead	0.00212	<0.0002	0.0212	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00219	<0.001	0.0219	<0.01	0.1	0.5	7
Zinc	0.00715	<0.001	0.0715	<0.01	4	50	200
Chloride	15.7	<2	157	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	23.2	<2	232	<20	1000	20000	50000
Total Dissolved Solids	1140	<5	11400	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.02	<0.016	0.2	<0.16	1	-	-
Dissolved Organic Carbon	12.4	<3	124	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	11.91
Conductivity (µS/cm)	1570
Temperature (°C)	17.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241052
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.18
Loss on Ignition (%)	3.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2040
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.92
ANC to pH 6 (mol/kg)	0.0940
ANC to pH 4 (mol/kg)	0.148

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	11.91
Conductivity (µS/cm)	1570
Temperature (°C)	17.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241053
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.19
Loss on Ignition (%)	5.45
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1190
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	10.30
ANC to pH 6 (mol/kg)	0.0663
ANC to pH 4 (mol/kg)	0.239

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00612	<0.0005	0.0612	<0.005	0.5	2	25
Barium	0.00209	<0.0002	0.0209	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0412	<0.003	0.412	<0.03	0.5	10	30
Nickel	0.00153	<0.0004	0.0153	<0.004	0.4	10	40
Lead	0.000666	<0.0002	0.00666	<0.002	0.5	10	50
Antimony	0.00473	<0.001	0.0473	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00111	<0.001	0.0111	<0.01	4	50	200
Chloride	10.1	<2	101	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	9.6	<2	96	<20	1000	20000	50000
Total Dissolved Solids	100	<5	1000	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	15.6	<3	156	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.02
Conductivity (µS/cm)	132
Temperature (°C)	17.70
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.111	Natural Moisture Content (%)	23.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241053
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.19
Loss on Ignition (%)	5.45
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1190
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	10.30
ANC to pH 6 (mol/kg)	0.0663
ANC to pH 4 (mol/kg)	0.239

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.02
Conductivity (µS/cm)	132
Temperature (°C)	17.70
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.127
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	40.8
Dry Matter Content (%)	71.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241054
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.86
Loss on Ignition (%)	5.95
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.30
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.54
ANC to pH 6 (mol/kg)	0.125
ANC to pH 4 (mol/kg)	0.663

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00732	<0.0005	0.0732	<0.005	0.5	2	25
Barium	0.0103	<0.0002	0.103	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0236	<0.003	0.236	<0.03	0.5	10	30
Nickel	0.00143	<0.0004	0.0143	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00129	<0.001	0.0129	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00499	<0.001	0.0499	<0.01	4	50	200
Chloride	2.9	<2	29	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	123	<2	1230	<20	1000	20000	50000
Total Dissolved Solids	306	<5	3060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.4	<3	114	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.75
Conductivity (µS/cm)	415
Temperature (°C)	14.00
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.127	Natural Moisture Content (%)	40.8
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	71.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241054
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.86
Loss on Ignition (%)	5.95
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.30
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.54
ANC to pH 6 (mol/kg)	0.125
ANC to pH 4 (mol/kg)	0.663

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.75
Conductivity (µS/cm)	415
Temperature (°C)	14.00
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.124
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241055
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.38
Loss on Ignition (%)	5.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	115
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.78
ANC to pH 6 (mol/kg)	0.0682
ANC to pH 4 (mol/kg)	0.545

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0065	<0.0005	0.065	<0.005	0.5	2	25
Barium	0.0112	<0.0002	0.112	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.033	<0.003	0.33	<0.03	0.5	10	30
Nickel	0.00132	<0.0004	0.0132	<0.004	0.4	10	40
Lead	0.000283	<0.0002	0.00283	<0.002	0.5	10	50
Antimony	0.00277	<0.001	0.0277	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0019	<0.001	0.019	<0.01	4	50	200
Chloride	6.2	<2	62	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	125	<5	1250	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.02	<0.016	0.2	<0.16	1	-	-
Dissolved Organic Carbon	15.1	<3	151	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.48
Conductivity (µS/cm)	152
Temperature (°C)	14.20
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.124	Natural Moisture Content (%)	37.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	73.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241055
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.38
Loss on Ignition (%)	5.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	115
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.78
ANC to pH 6 (mol/kg)	0.0682
ANC to pH 4 (mol/kg)	0.545

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.48
Conductivity (µS/cm)	152
Temperature (°C)	14.20
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.121
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241056
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.98
Loss on Ignition (%)	5.05
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.39
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.49
ANC to pH 6 (mol/kg)	0.106
ANC to pH 4 (mol/kg)	0.400

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00522	<0.0005	0.0522	<0.005	0.5	2	25
Barium	0.0142	<0.0002	0.142	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0225	<0.003	0.225	<0.03	0.5	10	30
Nickel	0.00109	<0.0004	0.0109	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00191	<0.001	0.0191	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00264	<0.001	0.0264	<0.01	4	50	200
Chloride	3.3	<2	33	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	108	<2	1080	<20	1000	20000	50000
Total Dissolved Solids	269	<5	2690	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.27	<3	92.7	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.11
Conductivity (µS/cm)	353
Temperature (°C)	17.30
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.121
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241056
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.98
Loss on Ignition (%)	5.05
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.39
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.49
ANC to pH 6 (mol/kg)	0.106
ANC to pH 4 (mol/kg)	0.400

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.11
Conductivity (µS/cm)	353
Temperature (°C)	17.30
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241058
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.567
Loss on Ignition (%)	1.47
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.62
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.39
ANC to pH 6 (mol/kg)	0.0664
ANC to pH 4 (mol/kg)	0.106

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0022	<0.0005	0.022	<0.005	0.5	2	25
Barium	0.00596	<0.0002	0.0596	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00671	<0.003	0.0671	<0.03	0.5	10	30
Nickel	0.00148	<0.0004	0.0148	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00599	<0.001	0.0599	<0.01	0.06	0.7	5
Selenium	0.00197	<0.001	0.0197	<0.01	0.1	0.5	7
Zinc	0.00107	<0.001	0.0107	<0.01	4	50	200
Chloride	3.5	<2	35	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41	<2	410	<20	1000	20000	50000
Total Dissolved Solids	142	<5	1420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.33	<3	33.3	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.58
Conductivity (µS/cm)	177
Temperature (°C)	16.20
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241058
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.567
Loss on Ignition (%)	1.47
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.62
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.39
ANC to pH 6 (mol/kg)	0.0664
ANC to pH 4 (mol/kg)	0.106

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.58
Conductivity (µS/cm)	177
Temperature (°C)	16.20
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.37
Dry Matter Content (%)	94.9

Case	
SDG	190131-64
Lab Sample Number(s)	19241062
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.405
Loss on Ignition (%)	0.806
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.01
ANC to pH 6 (mol/kg)	0.0400
ANC to pH 4 (mol/kg)	0.0562

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00234	<0.0005	0.0234	<0.005	0.5	2	25
Barium	0.00483	<0.0002	0.0483	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00197	<0.001	0.0197	<0.01	0.1	0.5	7
Zinc	0.00382	<0.001	0.0382	<0.01	4	50	200
Chloride	41.9	<2	419	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	11.5	<2	115	<20	1000	20000	50000
Total Dissolved Solids	156	<5	1560	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.01	<3	30.1	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	9.62
Conductivity (µS/cm)	196
Temperature (°C)	14.00
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.095	Natural Moisture Content (%)	5.37
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	94.9
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241062
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.405
Loss on Ignition (%)	0.806
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.01
ANC to pH 6 (mol/kg)	0.0400
ANC to pH 4 (mol/kg)	0.0562

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	9.62
Conductivity (µS/cm)	196
Temperature (°C)	14.00
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241065
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.381
Loss on Ignition (%)	2.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.59
ANC to pH 6 (mol/kg)	0.0671
ANC to pH 4 (mol/kg)	0.176

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000922	<0.0005	0.00922	<0.005	0.5	2	25
Barium	0.0729	<0.0002	0.729	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00631	<0.003	0.0631	<0.03	0.5	10	30
Nickel	0.000547	<0.0004	0.00547	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00166	<0.001	0.0166	<0.01	0.06	0.7	5
Selenium	0.0112	<0.001	0.112	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	167	<2	1670	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.1	<2	371	<20	1000	20000	50000
Total Dissolved Solids	462	<5	4620	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.8	<3	38	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.97
Conductivity (µS/cm)	629
Temperature (°C)	16.30
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241065
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.381
Loss on Ignition (%)	2.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.59
ANC to pH 6 (mol/kg)	0.0671
ANC to pH 4 (mol/kg)	0.176

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.97
Conductivity (µS/cm)	629
Temperature (°C)	16.30
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.64
Dry Matter Content (%)	92.9

Case	
SDG	190131-64
Lab Sample Number(s)	19241068
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.674
Loss on Ignition (%)	1.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.45
ANC to pH 6 (mol/kg)	0.148
ANC to pH 4 (mol/kg)	1.40

Eluate Analysis	C2 Conc ⁿ in 10:1 eluate (mg/l)		A2 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0516	<0.0002	0.516	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0201	<0.003	0.201	<0.03	0.5	10	30
Nickel	0.000945	<0.0004	0.00945	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00229	<0.001	0.0229	<0.01	0.06	0.7	5
Selenium	0.0317	<0.001	0.317	<0.01	0.1	0.5	7
Zinc	0.001	<0.001	0.01	<0.01	4	50	200
Chloride	141	<2	1410	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47.7	<2	477	<20	1000	20000	50000
Total Dissolved Solids	413	<5	4130	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.15
Conductivity (µS/cm)	545
Temperature (°C)	16.90
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.64
Dry Matter Content (%)	92.9

Case	
SDG	190131-64
Lab Sample Number(s)	19241068
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.674
Loss on Ignition (%)	1.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.45
ANC to pH 6 (mol/kg)	0.148
ANC to pH 4 (mol/kg)	1.40

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.15
Conductivity (µS/cm)	545
Temperature (°C)	16.90
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241070
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.744
Loss on Ignition (%)	2.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.146
ANC to pH 4 (mol/kg)	1.35

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000575	<0.0005	0.00575	<0.005	0.5	2	25
Barium	0.0749	<0.0002	0.749	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0139	<0.003	0.139	<0.03	0.5	10	30
Nickel	0.00123	<0.0004	0.0123	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00292	<0.001	0.0292	<0.01	0.06	0.7	5
Selenium	0.0212	<0.001	0.212	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	228	<4	2280	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	31	<2	310	<20	1000	20000	50000
Total Dissolved Solids	626	<5	6260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.43
Conductivity (µS/cm)	839
Temperature (°C)	15.80
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241070
Sampled Date	24-Jan-2019
Customer Sample Ref.	BH240
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.744
Loss on Ignition (%)	2.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.146
ANC to pH 4 (mol/kg)	1.35

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.43
Conductivity (µS/cm)	839
Temperature (°C)	15.80
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.23
Dry Matter Content (%)	92.4

Case	
SDG	190131-64
Lab Sample Number(s)	19241072
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.811
Loss on Ignition (%)	1.58
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	61.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	10.15
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	0.315

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00522	<0.0005	0.0522	<0.005	0.5	2	25
Barium	0.0142	<0.0002	0.142	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0076	<0.001	0.076	<0.01	0.5	10	70
Copper	0.00403	<0.0003	0.0403	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0056	<0.003	0.056	<0.03	0.5	10	30
Nickel	0.000521	<0.0004	0.00521	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00294	<0.001	0.0294	<0.01	0.06	0.7	5
Selenium	0.00615	<0.001	0.0615	<0.01	0.1	0.5	7
Zinc	0.00105	<0.001	0.0105	<0.01	4	50	200
Chloride	16.2	<2	162	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.5	<2	405	<20	1000	20000	50000
Total Dissolved Solids	178	<5	1780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.02	<3	30.2	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	10.74
Conductivity (µS/cm)	270
Temperature (°C)	18.80
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.23
Dry Matter Content (%)	92.4

Case	
SDG	190131-64
Lab Sample Number(s)	19241072
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.811
Loss on Ignition (%)	1.58
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	61.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	10.15
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	0.315

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	10.74
Conductivity (µS/cm)	270
Temperature (°C)	18.80
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	2.46
Dry Matter Content (%)	97.6

Case	
SDG	190131-64
Lab Sample Number(s)	19241074
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.901
Loss on Ignition (%)	8.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.61
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.58
ANC to pH 6 (mol/kg)	0.0420
ANC to pH 4 (mol/kg)	0.172

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00186	<0.0005	0.0186	<0.005	0.5	2	25
Barium	0.00923	<0.0002	0.0923	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00361	<0.0003	0.0361	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0228	<0.003	0.228	<0.03	0.5	10	30
Nickel	0.00144	<0.0004	0.0144	<0.004	0.4	10	40
Lead	0.000229	<0.0002	0.00229	<0.002	0.5	10	50
Antimony	0.00253	<0.001	0.0253	<0.01	0.06	0.7	5
Selenium	0.0012	<0.001	0.012	<0.01	0.1	0.5	7
Zinc	0.00154	<0.001	0.0154	<0.01	4	50	200
Chloride	4	<2	40	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	132	<2	1320	<20	1000	20000	50000
Total Dissolved Solids	280	<5	2800	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.32	<3	53.2	<30	500	800	1000

Leach Test Information

Date Prepared	10-Feb-2019
pH (pH Units)	7.92
Conductivity (µS/cm)	326
Temperature (°C)	12.70
Volume Leachant (Litres)	0.898

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	2.46
Dry Matter Content (%)	97.6

Case	
SDG	190131-64
Lab Sample Number(s)	19241074
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.901
Loss on Ignition (%)	8.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.61
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.58
ANC to pH 6 (mol/kg)	0.0420
ANC to pH 4 (mol/kg)	0.172

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	10-Feb-2019
pH (pH Units)	7.92
Conductivity (µS/cm)	326
Temperature (°C)	12.70
Volume Leachant (Litres)	0.898

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	1.94
Dry Matter Content (%)	98.1

Case	
SDG	190131-64
Lab Sample Number(s)	19241077
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.856
Loss on Ignition (%)	16.0
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.09
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.46
ANC to pH 6 (mol/kg)	0.0310
ANC to pH 4 (mol/kg)	0.218

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00181	<0.0005	0.0181	<0.005	0.5	2	25
Barium	0.00838	<0.0002	0.0838	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00257	<0.0003	0.0257	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0201	<0.003	0.201	<0.03	0.5	10	30
Nickel	0.00167	<0.0004	0.0167	<0.004	0.4	10	40
Lead	0.000368	<0.0002	0.00368	<0.002	0.5	10	50
Antimony	0.0026	<0.001	0.026	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00597	<0.001	0.0597	<0.01	4	50	200
Chloride	3.5	<2	35	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	265	<2	2650	<20	1000	20000	50000
Total Dissolved Solids	448	<5	4480	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.19	<3	41.9	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	6.87
Conductivity (µS/cm)	16.5
Temperature (°C)	16.50
Volume Leachant (Litres)	0.898

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 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	1.94
Dry Matter Content (%)	98.1

Case	
SDG	190131-64
Lab Sample Number(s)	19241077
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.856
Loss on Ignition (%)	16.0
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.09
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.46
ANC to pH 6 (mol/kg)	0.0310
ANC to pH 4 (mol/kg)	0.218

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	6.87
Conductivity (µS/cm)	16.5
Temperature (°C)	16.50
Volume Leachant (Litres)	0.898

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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241079
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.500
Loss on Ignition (%)	1.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.26
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.137
ANC to pH 4 (mol/kg)	0.935

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00171	<0.0005	0.0171	<0.005	0.5	2	25
Barium	0.00967	<0.0002	0.0967	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0113	<0.003	0.113	<0.03	0.5	10	30
Nickel	0.00133	<0.0004	0.0133	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00385	<0.001	0.0385	<0.01	0.06	0.7	5
Selenium	0.0017	<0.001	0.017	<0.01	0.1	0.5	7
Zinc	0.00352	<0.001	0.0352	<0.01	4	50	200
Chloride	8.3	<2	83	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	55.5	<2	555	<20	1000	20000	50000
Total Dissolved Solids	168	<5	1680	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.78	<3	37.8	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.38
Conductivity (µS/cm)	213
Temperature (°C)	16.90
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241079
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.500
Loss on Ignition (%)	1.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.26
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.137
ANC to pH 4 (mol/kg)	0.935

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.38
Conductivity (µS/cm)	213
Temperature (°C)	16.90
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241080
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.348
Loss on Ignition (%)	1.16
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.51
ANC to pH 6 (mol/kg)	0.106
ANC to pH 4 (mol/kg)	0.561

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00199	<0.0005	0.0199	<0.005	0.5	2	25
Barium	0.0115	<0.0002	0.115	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00712	<0.003	0.0712	<0.03	0.5	10	30
Nickel	0.000832	<0.0004	0.00832	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00506	<0.001	0.0506	<0.01	0.06	0.7	5
Selenium	0.00306	<0.001	0.0306	<0.01	0.1	0.5	7
Zinc	0.00106	<0.001	0.0106	<0.01	4	50	200
Chloride	12.7	<2	127	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.7	<2	407	<20	1000	20000	50000
Total Dissolved Solids	149	<5	1490	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.04
Conductivity (µS/cm)	190
Temperature (°C)	16.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241080
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.348
Loss on Ignition (%)	1.16
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.51
ANC to pH 6 (mol/kg)	0.106
ANC to pH 4 (mol/kg)	0.561

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	8.04
Conductivity (µS/cm)	190
Temperature (°C)	16.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.16
Dry Matter Content (%)	94.2

Case	
SDG	190131-64
Lab Sample Number(s)	19241082
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.355
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	0.420

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00274	<0.0005	0.0274	<0.005	0.5	2	25
Barium	0.00613	<0.0002	0.0613	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000443	<0.0003	0.00443	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	0.000206	<0.0002	0.00206	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00211	<0.001	0.0211	<0.01	0.1	0.5	7
Zinc	0.00129	<0.001	0.0129	<0.01	4	50	200
Chloride	25.4	<2	254	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	8	<2	80	<20	1000	20000	50000
Total Dissolved Solids	114	<5	1140	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	9.67
Conductivity (µS/cm)	148
Temperature (°C)	18.30
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.16
Dry Matter Content (%)	94.2

Case	
SDG	190131-64
Lab Sample Number(s)	19241082
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.355
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	0.420

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	9.67
Conductivity (µS/cm)	148
Temperature (°C)	18.30
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.094
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	4.28
Dry Matter Content (%)	95.9

Case	
SDG	190131-64
Lab Sample Number(s)	19241084
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.367
Loss on Ignition (%)	0.941
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.21
ANC to pH 6 (mol/kg)	0.0956
ANC to pH 4 (mol/kg)	0.350

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00201	<0.0005	0.0201	<0.005	0.5	2	25
Barium	0.0171	<0.0002	0.171	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000405	<0.0003	0.00405	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00191	<0.001	0.0191	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	60.5	<2	605	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	11.2	<2	112	<20	1000	20000	50000
Total Dissolved Solids	206	<5	2060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	9.56
Conductivity (µS/cm)	270
Temperature (°C)	18.90
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.094
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	4.28
Dry Matter Content (%)	95.9

Case	
SDG	190131-64
Lab Sample Number(s)	19241084
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.367
Loss on Ignition (%)	0.941
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.21
ANC to pH 6 (mol/kg)	0.0956
ANC to pH 4 (mol/kg)	0.350

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	9.56
Conductivity (µS/cm)	270
Temperature (°C)	18.90
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241085
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.603
Loss on Ignition (%)	1.28
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.78
ANC to pH 6 (mol/kg)	0.167
ANC to pH 4 (mol/kg)	0.942

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00139	<0.0005	0.0139	<0.005	0.5	2	25
Barium	0.0694	<0.0002	0.694	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000454	<0.0003	0.00454	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0102	<0.003	0.102	<0.03	0.5	10	30
Nickel	0.00066	<0.0004	0.0066	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0026	<0.001	0.026	<0.01	0.06	0.7	5
Selenium	0.0239	<0.001	0.239	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	150	<2	1500	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	31	<2	310	<20	1000	20000	50000
Total Dissolved Solids	430	<5	4300	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.34	<3	33.4	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.94
Conductivity (µS/cm)	543
Temperature (°C)	16.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190131-64
Lab Sample Number(s)	19241085
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.603
Loss on Ignition (%)	1.28
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.78
ANC to pH 6 (mol/kg)	0.167
ANC to pH 4 (mol/kg)	0.942

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.94
Conductivity (µS/cm)	543
Temperature (°C)	16.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	2.25
Dry Matter Content (%)	97.8

Case	
SDG	190131-64
Lab Sample Number(s)	19241087
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.754
Loss on Ignition (%)	1.75
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.59
ANC to pH 6 (mol/kg)	0.288
ANC to pH 4 (mol/kg)	1.16

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0426	<0.0002	0.426	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00223	<0.0003	0.0223	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0313	<0.003	0.313	<0.03	0.5	10	30
Nickel	0.00087	<0.0004	0.0087	<0.004	0.4	10	40
Lead	0.000203	<0.0002	0.00203	<0.002	0.5	10	50
Antimony	0.00221	<0.001	0.0221	<0.01	0.06	0.7	5
Selenium	0.037	<0.001	0.37	<0.01	0.1	0.5	7
Zinc	0.00396	<0.001	0.0396	<0.01	4	50	200
Chloride	166	<2	1660	<20	800	15000	25000
Fluoride	0.539	<0.5	5.39	<5	10	150	500
Sulphate (soluble)	64.1	<2	641	<20	1000	20000	50000
Total Dissolved Solids	470	<5	4700	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.1	<3	31	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.64
Conductivity (µS/cm)	631
Temperature (°C)	17.10
Volume Leachant (Litres)	0.898

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.092
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	2.25
Dry Matter Content (%)	97.8

Case	
SDG	190131-64
Lab Sample Number(s)	19241087
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.754
Loss on Ignition (%)	1.75
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.59
ANC to pH 6 (mol/kg)	0.288
ANC to pH 4 (mol/kg)	1.16

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	7.64
Conductivity (µS/cm)	631
Temperature (°C)	17.10
Volume Leachant (Litres)	0.898

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.95
Dry Matter Content (%)	93.5

Case	
SDG	190131-64
Lab Sample Number(s)	19241088
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.613
Loss on Ignition (%)	1.14
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.29
ANC to pH 6 (mol/kg)	0.145
ANC to pH 4 (mol/kg)	0.818

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000817	<0.0005	0.00817	<0.005	0.5	2	25
Barium	0.043	<0.0002	0.43	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00101	<0.0003	0.0101	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0243	<0.003	0.243	<0.03	0.5	10	30
Nickel	0.000823	<0.0004	0.00823	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00238	<0.001	0.0238	<0.01	0.06	0.7	5
Selenium	0.0392	<0.001	0.392	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	133	<2	1330	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.6	<2	566	<20	1000	20000	50000
Total Dissolved Solids	407	<5	4070	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	6.74
Conductivity (µS/cm)	556
Temperature (°C)	17.70
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:32:16



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.95
Dry Matter Content (%)	93.5

Case	
SDG	190131-64
Lab Sample Number(s)	19241088
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.613
Loss on Ignition (%)	1.14
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.29
ANC to pH 6 (mol/kg)	0.145
ANC to pH 4 (mol/kg)	0.818

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	11-Feb-2019
pH (pH Units)	6.74
Conductivity (µS/cm)	556
Temperature (°C)	17.70
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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 05/04/2019 15:32:16



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.37
Dry Matter Content (%)	94.9

Case	
SDG	190131-64
Lab Sample Number(s)	19241090
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.688
Loss on Ignition (%)	1.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.63
ANC to pH 6 (mol/kg)	0.199
ANC to pH 4 (mol/kg)	1.31

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000545	<0.0005	0.00545	<0.005	0.5	2	25
Barium	0.0336	<0.0002	0.336	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0135	<0.003	0.135	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00161	<0.001	0.0161	<0.01	0.06	0.7	5
Selenium	0.0218	<0.001	0.218	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	91.7	<2	917	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	35.2	<2	352	<20	1000	20000	50000
Total Dissolved Solids	287	<5	2870	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	6.89
Conductivity (µS/cm)	379
Temperature (°C)	16.50
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:32:16



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.095	Natural Moisture Content (%)	5.37
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	94.9
Particle Size <4mm	>95%		

Case	
SDG	190131-64
Lab Sample Number(s)	19241090
Sampled Date	29-Jan-2019
Customer Sample Ref.	BH242
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.688
Loss on Ignition (%)	1.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.63
ANC to pH 6 (mol/kg)	0.199
ANC to pH 4 (mol/kg)	1.31

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	08-Feb-2019
pH (pH Units)	6.89
Conductivity (µS/cm)	379
Temperature (°C)	16.50
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 05/04/2019 15:32:16



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19241032	19241033	19241034	19241035	19241036	19241037	19241038	19241039	19241041	19241046
	BH239	BH239	BH239	BH239	BH239	BH239	BH239	BH239	BH239	BH239
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	0.00 - 0.50	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	11.00 - 12.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	07-Feb-2019	07-Feb-2019	08-Feb-2019	10-Feb-2019	10-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	10-Feb-2019	08-Feb-2019
Anions by Kone (w)	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019
Asbestos ID in Solid Samples	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019
CEN 10:1 Leachate (1 Stage)	05-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
CEN Readings	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	13-Feb-2019	13-Feb-2019	13-Feb-2019	09-Feb-2019	13-Feb-2019	13-Feb-2019	09-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Dissolved Organic/Inorganic Carbon	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	19-Feb-2019	17-Feb-2019	17-Feb-2019
EPH CWG (Aliphatic) GC (S)	09-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019
EPH CWG (Aromatic) GC (S)	09-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019
Fluoride	14-Feb-2019	14-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019
GRO by GC-FID (S)	07-Feb-2019	08-Feb-2019	12-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	12-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019
Loss on Ignition in soils	07-Feb-2019	07-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019
Mercury Dissolved	15-Feb-2019	15-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	15-Feb-2019	15-Feb-2019	14-Feb-2019
Metals in solid samples by OES	08-Feb-2019	08-Feb-2019	09-Feb-2019	09-Feb-2019	11-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	12-Feb-2019	09-Feb-2019
Mineral Oil	06-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
PAH 16 & 17 Calc	05-Feb-2019	07-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019
PAH by GCMS	06-Feb-2019	07-Feb-2019	08-Feb-2019	06-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
PCBs by GCMS	08-Feb-2019	08-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	10-Feb-2019	09-Feb-2019
pH	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	14-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
Phenols by HPLC (W)	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Sample description	02-Feb-2019	02-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019
TPH CWG GC (S)	09-Feb-2019	11-Feb-2019	12-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	12-Feb-2019
VOC MS (S)	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19241050	19241051	19241052	19241053	19241054	19241055	19241056	19241058	19241062	19241065
	BH239	BH239	BH240	BH240	BH240	BH240	BH240	BH240	BH240	BH240
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	15.00 - 16.00	16.00 - 17.00	0.00 - 0.50	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00	11.00 - 12.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	10-Feb-2019	08-Feb-2019	10-Feb-2019	10-Feb-2019
Anions by Kone (w)	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019
Asbestos ID in Solid Samples	06-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019
CEN 10:1 Leachate (1 Stage)	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019
CEN Readings	08-Feb-2019	08-Feb-2019	10-Feb-2019	10-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	13-Feb-2019	09-Feb-2019	14-Feb-2019	14-Feb-2019	09-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	09-Feb-2019	13-Feb-2019
Dissolved Organic/Inorganic Carbon	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	11-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019	17-Feb-2019
EPH CWG (Aliphatic) GC (S)	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
EPH CWG (Aromatic) GC (S)	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
Fluoride	13-Feb-2019	13-Feb-2019	12-Feb-2019	12-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
GRO by GC-FID (S)	08-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019	07-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019
Loss on Ignition in soils	11-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	07-Feb-2019	11-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019
Mercury Dissolved	11-Feb-2019	11-Feb-2019	15-Feb-2019	14-Feb-2019	11-Feb-2019	14-Feb-2019	11-Feb-2019	15-Feb-2019	11-Feb-2019	08-Feb-2019
Metals in solid samples by OES	12-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019	12-Feb-2019	09-Feb-2019	12-Feb-2019	11-Feb-2019
Mineral Oil	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019
PAH 16 & 17 Calc	06-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
PAH by GCMS	07-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019
PCBs by GCMS	12-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019	10-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
pH	07-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	11-Feb-2019	11-Feb-2019	11-Feb-2019	07-Feb-2019	12-Feb-2019	11-Feb-2019	11-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (W)	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
Sample description	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019	03-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	11-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019
TPH CWG GC (S)	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	09-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
VOC MS (S)	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	19241068	19241070	19241072	19241074	19241077	19241079	19241080	19241082	19241084	19241085
	BH240	BH240	BH242	BH242	BH242	BH242	BH242	BH242	BH242	BH242
	13.00 - 14.00	15.00 - 16.00	0.00 - 0.50	1.00 - 2.00	3.00 - 4.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	10.00 - 11.00	11.00 - 12.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	08-Feb-2019	08-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Anions by Kone (w)	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	07-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
CEN 10:1 Leachate (1 Stage)	07-Feb-2019	07-Feb-2019	11-Feb-2019	10-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
CEN Readings	10-Feb-2019	08-Feb-2019	13-Feb-2019	12-Feb-2019	12-Feb-2019	09-Feb-2019	09-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Dissolved Metals by ICP-MS	14-Feb-2019	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Dissolved Organic/Inorganic Carbon	19-Feb-2019	17-Feb-2019	19-Feb-2019	19-Feb-2019	15-Feb-2019	17-Feb-2019	17-Feb-2019	19-Feb-2019	15-Feb-2019	15-Feb-2019
EPH CWG (Aliphatic) GC (S)	11-Feb-2019	11-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019
EPH CWG (Aromatic) GC (S)	11-Feb-2019	11-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019
Fluoride	12-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
GRO by GC-FID (S)	08-Feb-2019	08-Feb-2019	19-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019	08-Feb-2019	11-Feb-2019	12-Feb-2019	11-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	08-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Loss on Ignition in soils	11-Feb-2019	11-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	11-Feb-2019	11-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019
Mercury Dissolved	15-Feb-2019	14-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Metals in solid samples by OES	09-Feb-2019	09-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	13-Feb-2019	13-Feb-2019	15-Feb-2019	15-Feb-2019	14-Feb-2019
Mineral Oil	07-Feb-2019	07-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
PAH 16 & 17 Calc	06-Feb-2019	08-Feb-2019	14-Feb-2019	15-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
PAH by GCMS	07-Feb-2019	07-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
PCBs by GCMS	09-Feb-2019	09-Feb-2019	18-Feb-2019	18-Feb-2019	18-Feb-2019	12-Feb-2019	12-Feb-2019	15-Feb-2019	15-Feb-2019	18-Feb-2019
pH	07-Feb-2019	07-Feb-2019	12-Feb-2019	12-Feb-2019	12-Feb-2019	13-Feb-2019	13-Feb-2019	12-Feb-2019	12-Feb-2019	13-Feb-2019
Phenols by HPLC (S)	11-Feb-2019	11-Feb-2019	16-Feb-2019	18-Feb-2019	18-Feb-2019	16-Feb-2019	16-Feb-2019	18-Feb-2019	16-Feb-2019	18-Feb-2019
Phenols by HPLC (W)	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	21-Feb-2019	21-Feb-2019	20-Feb-2019	20-Feb-2019	20-Feb-2019
Sample description	03-Feb-2019	03-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	06-Feb-2019	06-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	14-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	08-Feb-2019	08-Feb-2019	14-Feb-2019	13-Feb-2019	14-Feb-2019	12-Feb-2019	12-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
TPH CWG GC (S)	11-Feb-2019	11-Feb-2019	20-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019
VOC MS (S)	07-Feb-2019	07-Feb-2019	13-Feb-2019	12-Feb-2019	12-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	19241087	19241088	19241090
	BH242	BH242	BH242
	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	13-Feb-2019	13-Feb-2019	14-Feb-2019
Anions by Kone (w)	16-Feb-2019	16-Feb-2019	16-Feb-2019
Asbestos ID in Solid Samples	13-Feb-2019	13-Feb-2019	13-Feb-2019
CEN 10:1 Leachate (1 Stage)	11-Feb-2019	11-Feb-2019	08-Feb-2019
CEN Readings	12-Feb-2019	12-Feb-2019	09-Feb-2019
Coronene	14-Feb-2019	14-Feb-2019	14-Feb-2019
Dissolved Metals by ICP-MS	14-Feb-2019	14-Feb-2019	14-Feb-2019
Dissolved Organic/Inorganic Carbon	15-Feb-2019	15-Feb-2019	17-Feb-2019
EPH CWG (Aliphatic) GC (S)	14-Feb-2019	15-Feb-2019	14-Feb-2019
EPH CWG (Aromatic) GC (S)	14-Feb-2019	15-Feb-2019	14-Feb-2019
Fluoride	14-Feb-2019	14-Feb-2019	12-Feb-2019
GRO by GC-FID (S)	16-Feb-2019	12-Feb-2019	16-Feb-2019
Hexavalent Chromium (s)	14-Feb-2019	14-Feb-2019	13-Feb-2019
Loss on Ignition in soils	13-Feb-2019	13-Feb-2019	14-Feb-2019
Mercury Dissolved	15-Feb-2019	15-Feb-2019	14-Feb-2019
Metals in solid samples by OES	14-Feb-2019	14-Feb-2019	18-Feb-2019
Mineral Oil	14-Feb-2019	14-Feb-2019	14-Feb-2019
PAH 16 & 17 Calc	14-Feb-2019	14-Feb-2019	14-Feb-2019
PAH by GCMS	14-Feb-2019	14-Feb-2019	14-Feb-2019
PCBs by GCMS	18-Feb-2019	18-Feb-2019	15-Feb-2019
pH	13-Feb-2019	12-Feb-2019	13-Feb-2019
Phenols by HPLC (S)	16-Feb-2019	18-Feb-2019	18-Feb-2019
Phenols by HPLC (W)	20-Feb-2019	21-Feb-2019	21-Feb-2019
Sample description	09-Feb-2019	09-Feb-2019	06-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	14-Feb-2019	14-Feb-2019	14-Feb-2019
TPH CWG GC (S)	16-Feb-2019	15-Feb-2019	16-Feb-2019
VOC MS (S)	14-Feb-2019	11-Feb-2019	14-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

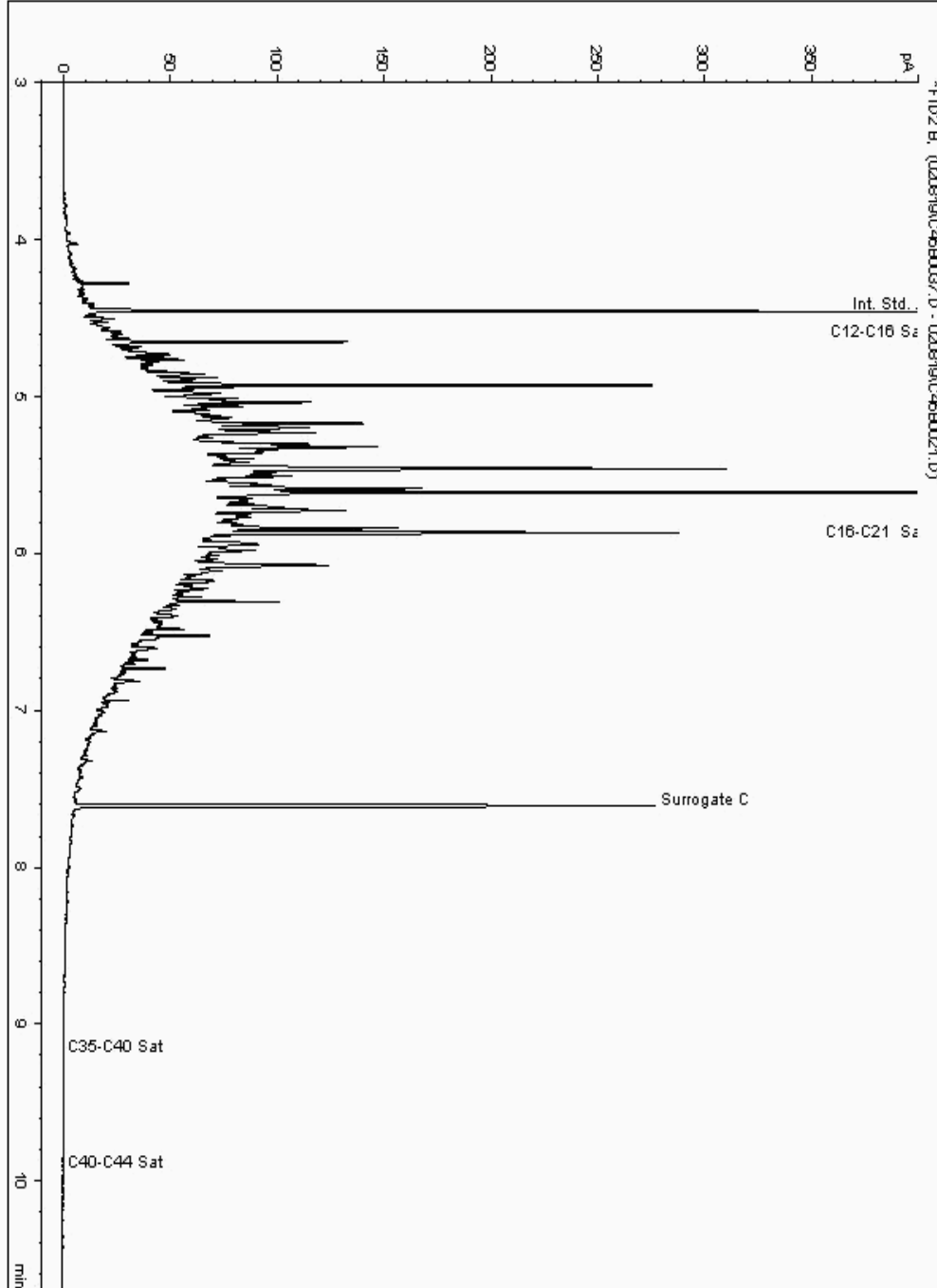
Analysis: EPH CWG (Aliphatic) GC (S)
19262633

Sample No :
Sample ID : BH239

19,262,633 Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091180-
Date Acquired : 08/02/2019 19:30:39 PM
Units : ppb
Dilution: BH239[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

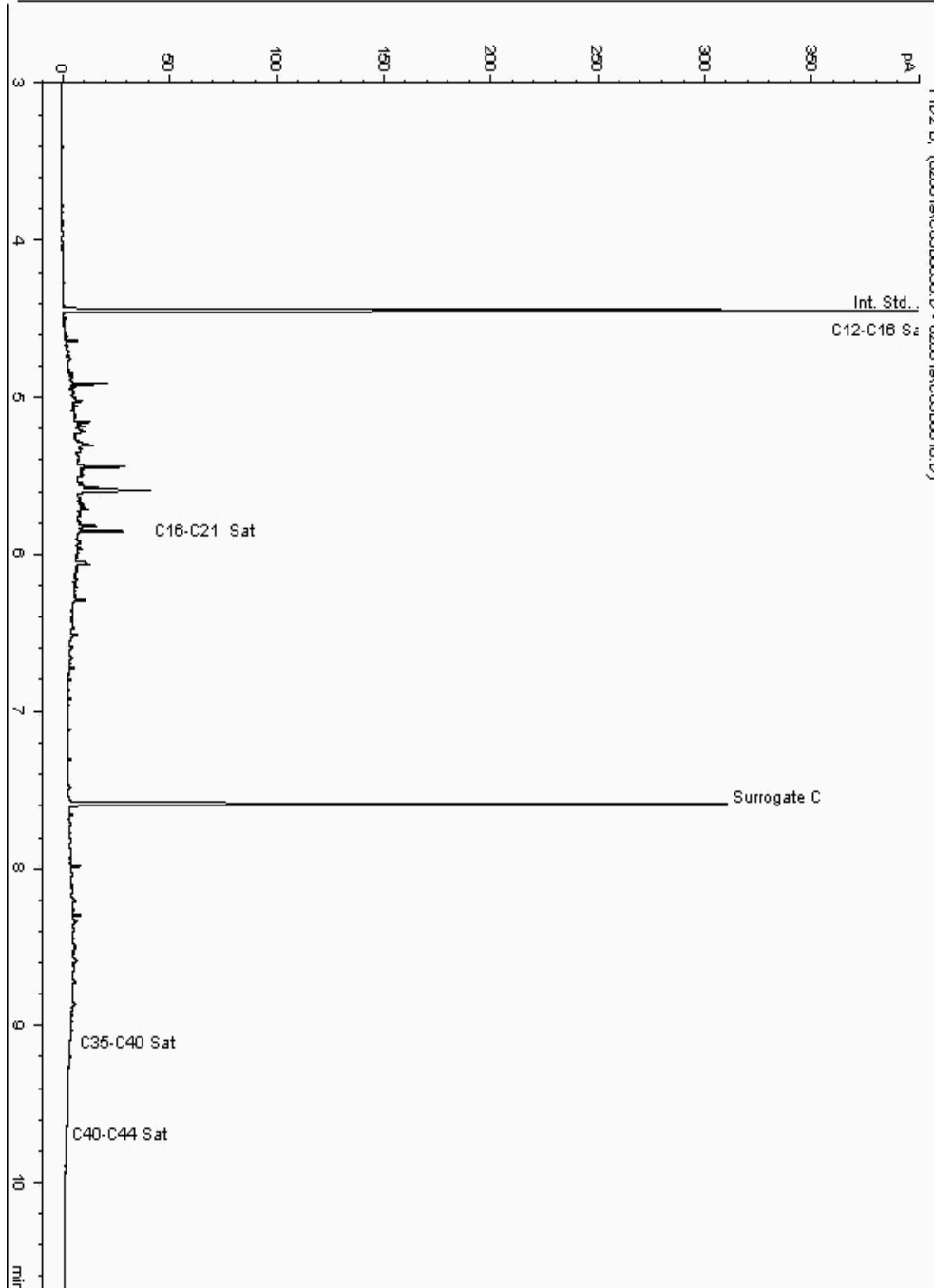
Analysis: EPH CWG (Aliphatic) GC (S)
19262765

Sample No :
Sample ID : BH239

19,262,765Depth :0.00 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091267-
Date Acquired : 08/02/2019 18:11:48 PM
Units : ppb
Dilution: BH239[0.00 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

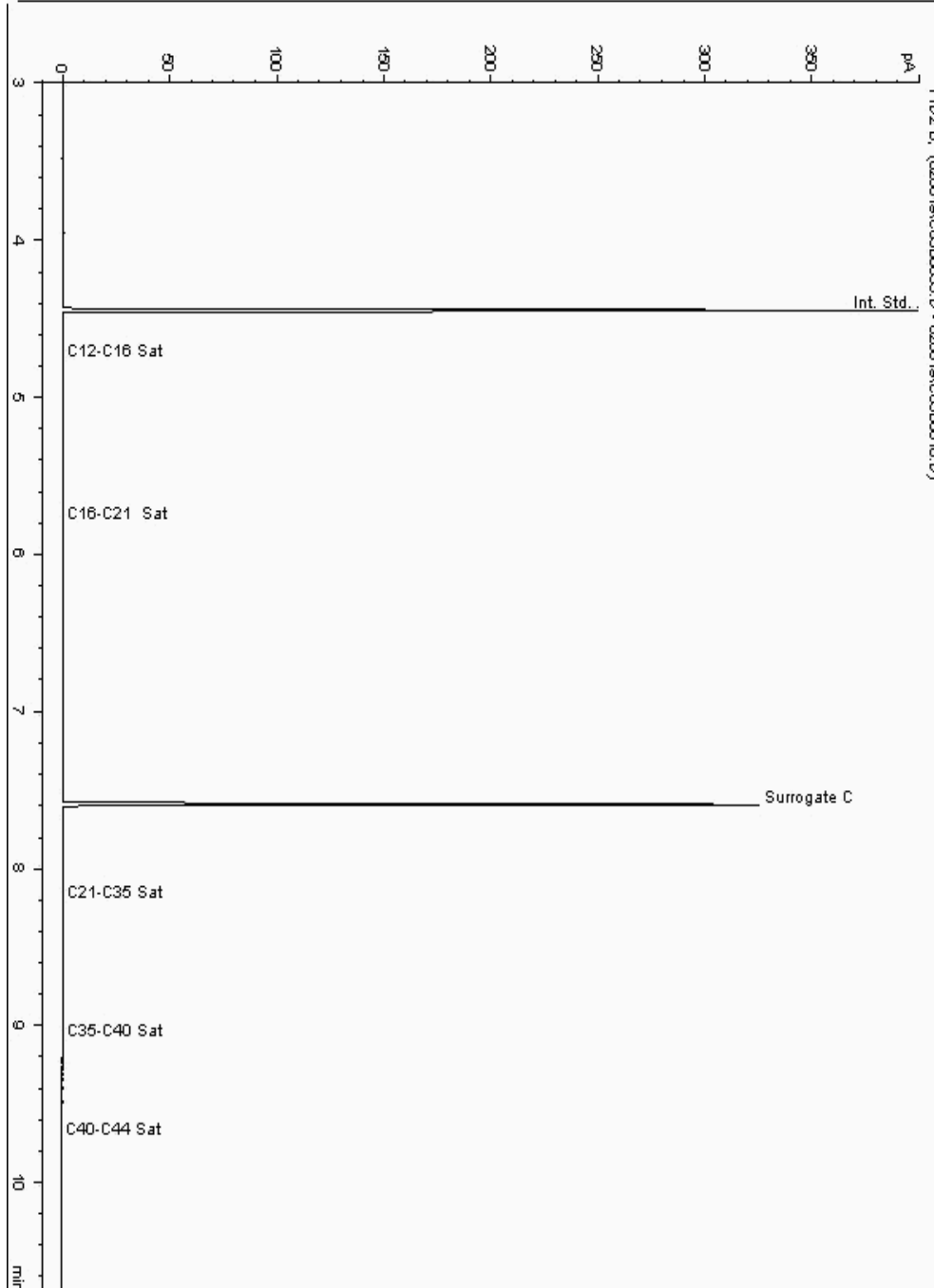
Analysis: EPH CWG (Aliphatic) GC (S)
19263628

Sample No :
Sample ID : BH240

19,263,628 Depth : 8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092487-
Date Acquired : 08/02/2019 17:10:16 PM
Units : ppb
Dilution: BH240[8.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

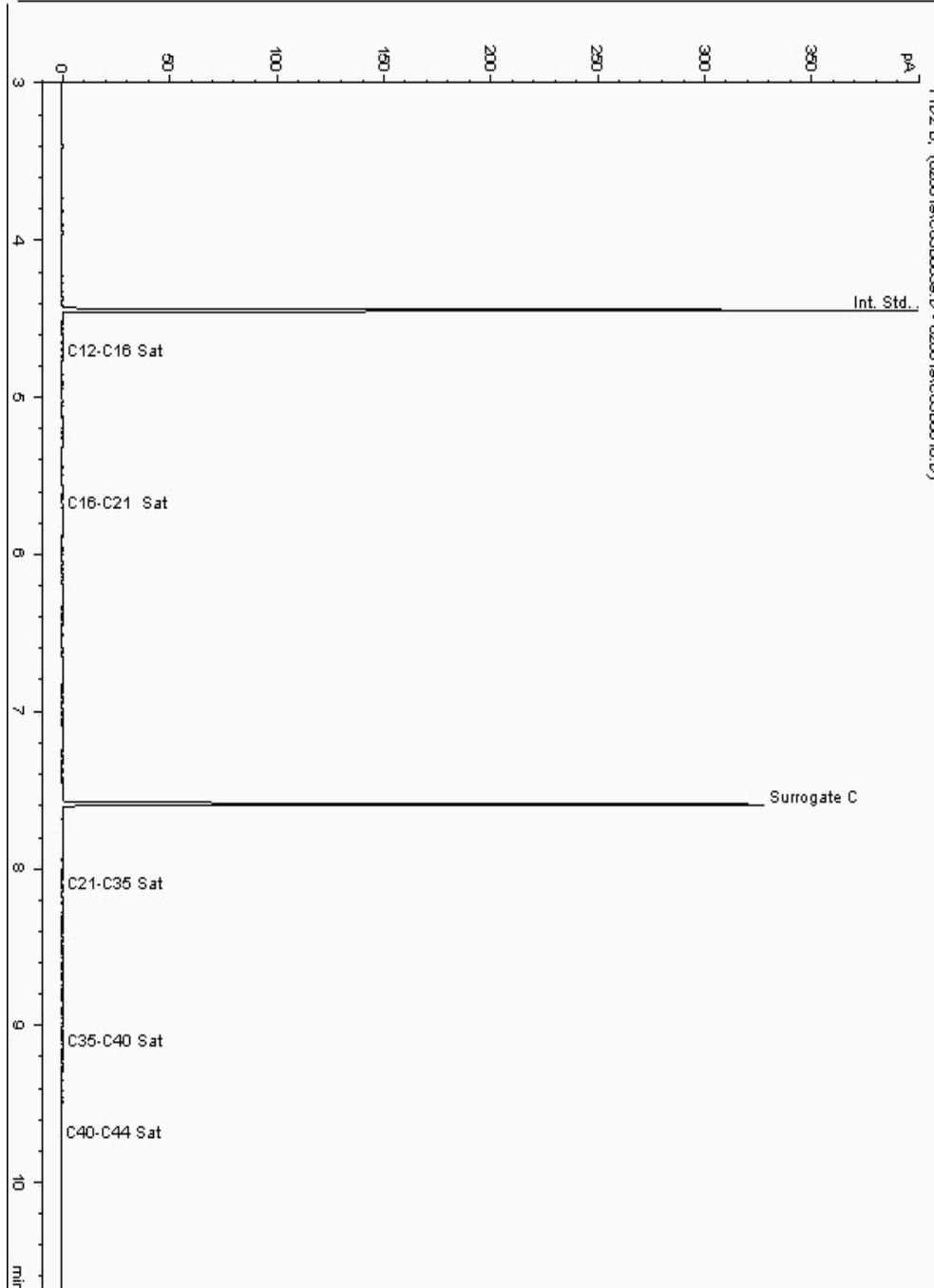
Analysis: EPH CWG (Aliphatic) GC (S)
19263779

Sample No :
Sample ID : BH240

19,263,779 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092548-
Date Acquired : 08/02/2019 18:32:13 PM
Units : ppb
Dilution: BH240[11.00 - 12.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

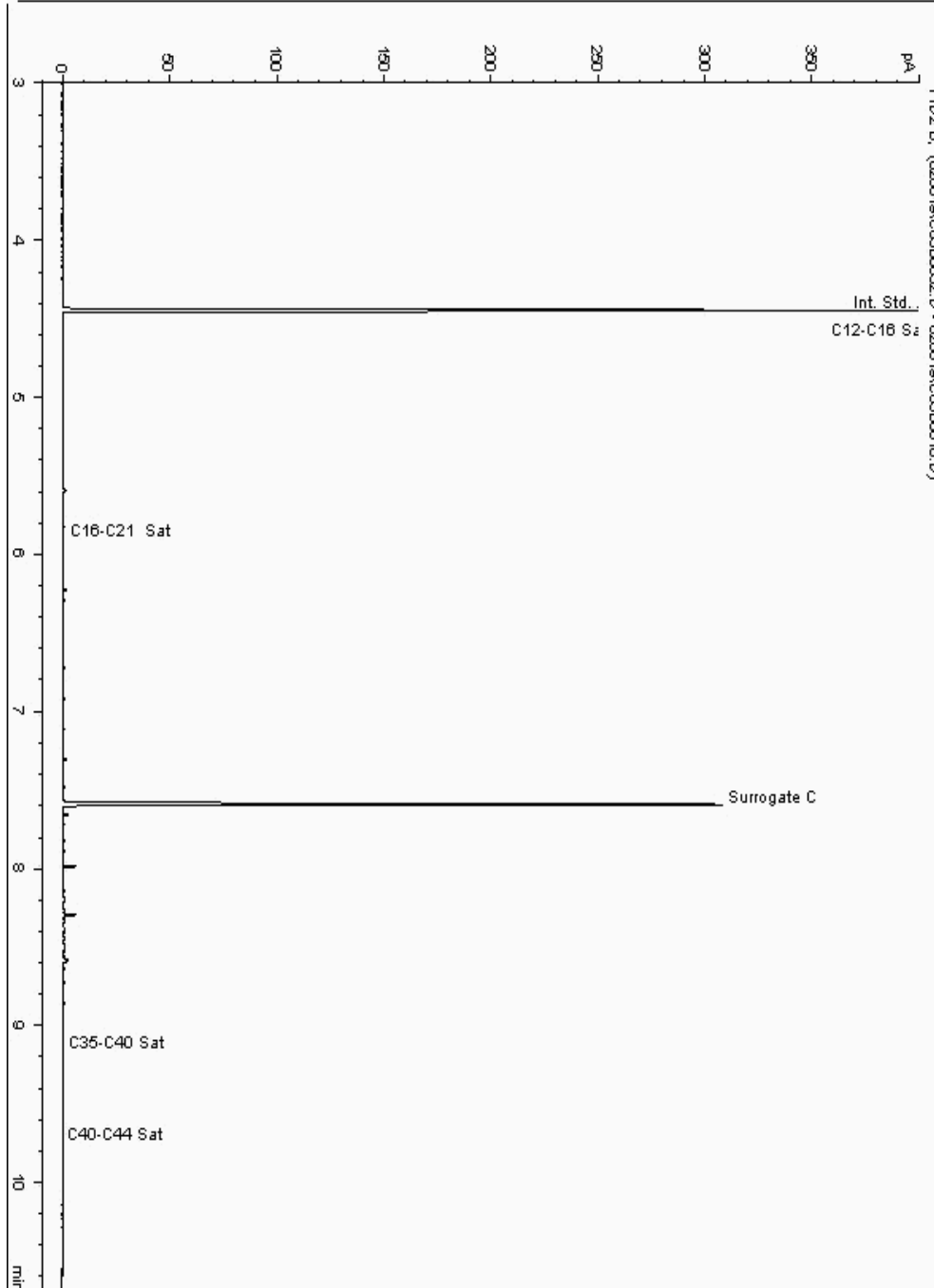
Analysis: EPH CWG (Aliphatic) GC (S)
19263822

Sample No :
Sample ID : BH239

19,263,822Depth :4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091568-
Date Acquired : 08/02/2019 16:16:57 PM
Units : ppb
Dilution: BH239[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

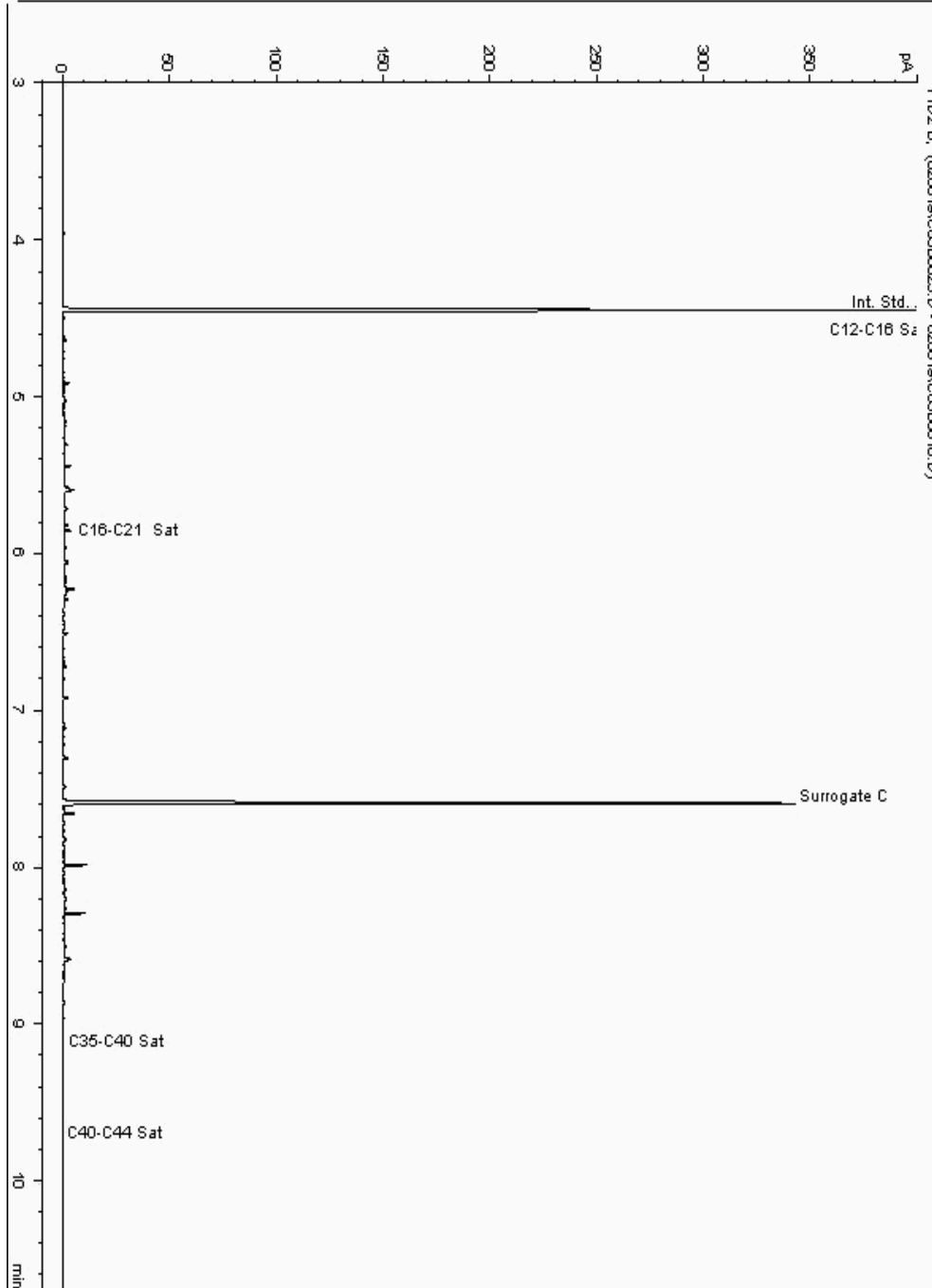
Analysis: EPH CWG (Aliphatic) GC (S)
19263843

Sample No :
Sample ID : BH239

19,263,843Depth :2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091434-
Date Acquired : 08/02/2019 14:09:44 PM
Units : ppb
Dilution: BH239[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

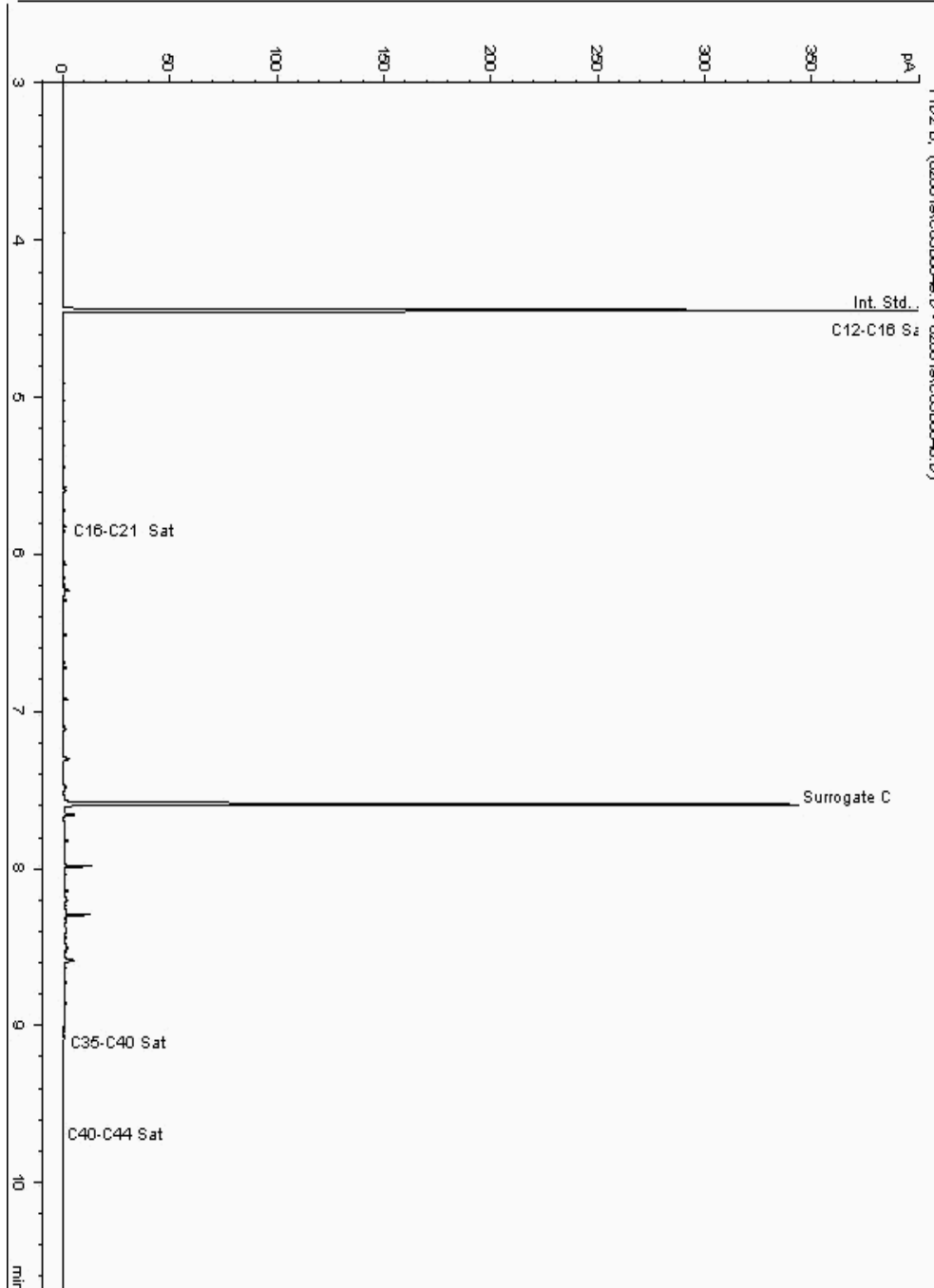
Analysis: EPH CWG (Aliphatic) GC (S)
19263887

Sample No :
Sample ID : BH239

19,263,887Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091493-
Date Acquired : 08/02/2019 21:37:25 PM
Units : ppb
Dilution: BH239[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

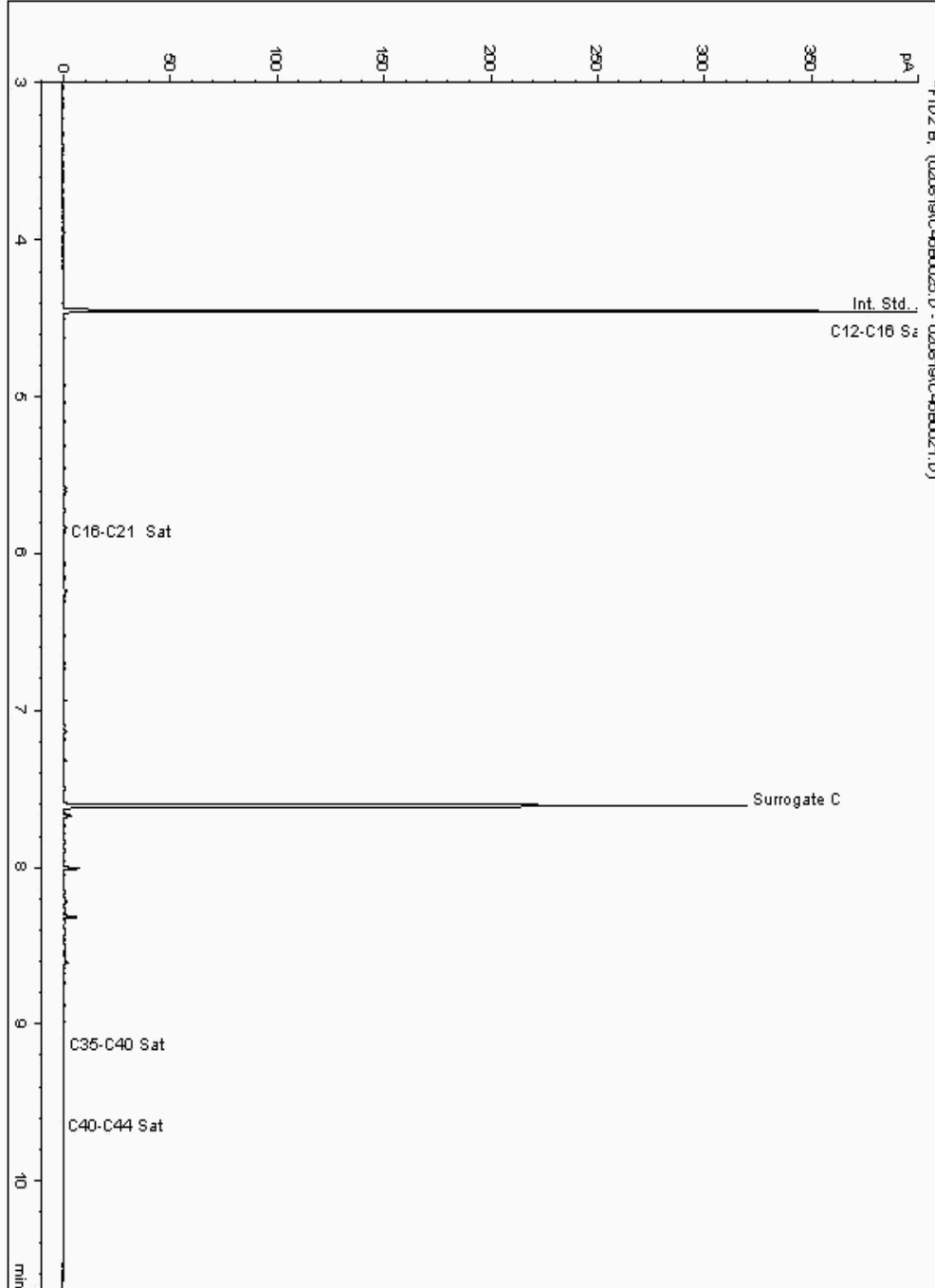
Analysis: EPH CWG (Aliphatic) GC (S)
19263918

Sample No :
Sample ID : BH239

19,263,918 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091347-
Date Acquired : 08/02/2019 15:58:49 PM
Units : ppb
Dilution: BH239[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

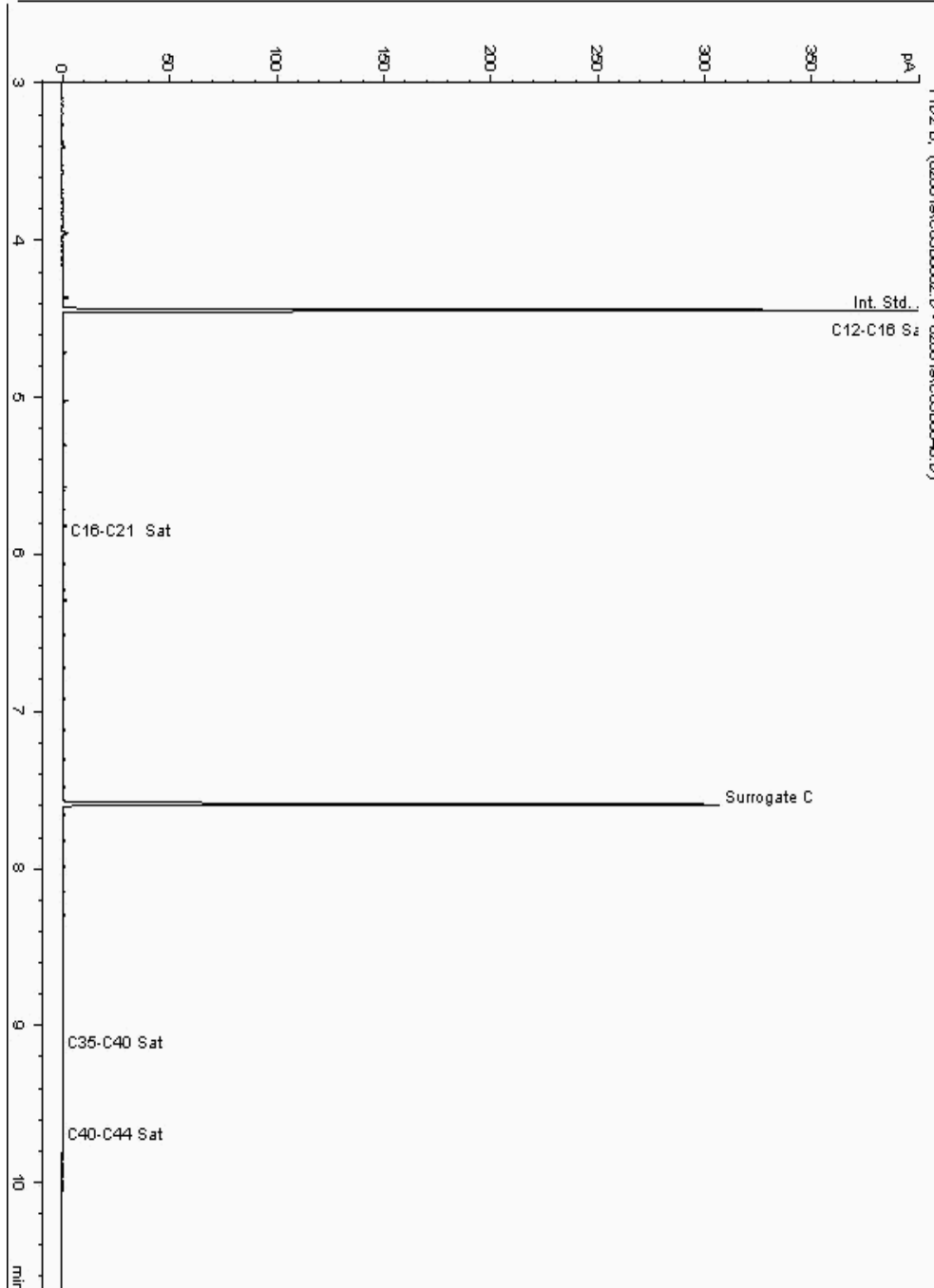
Analysis: EPH CWG (Aliphatic) GC (S)
19263953

Sample No :
Sample ID : BH239

19,263,953 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091808-
Date Acquired : 09/02/2019 01:47:05 PM
Units : ppb
Dilution: BH239[15.00 - 16.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

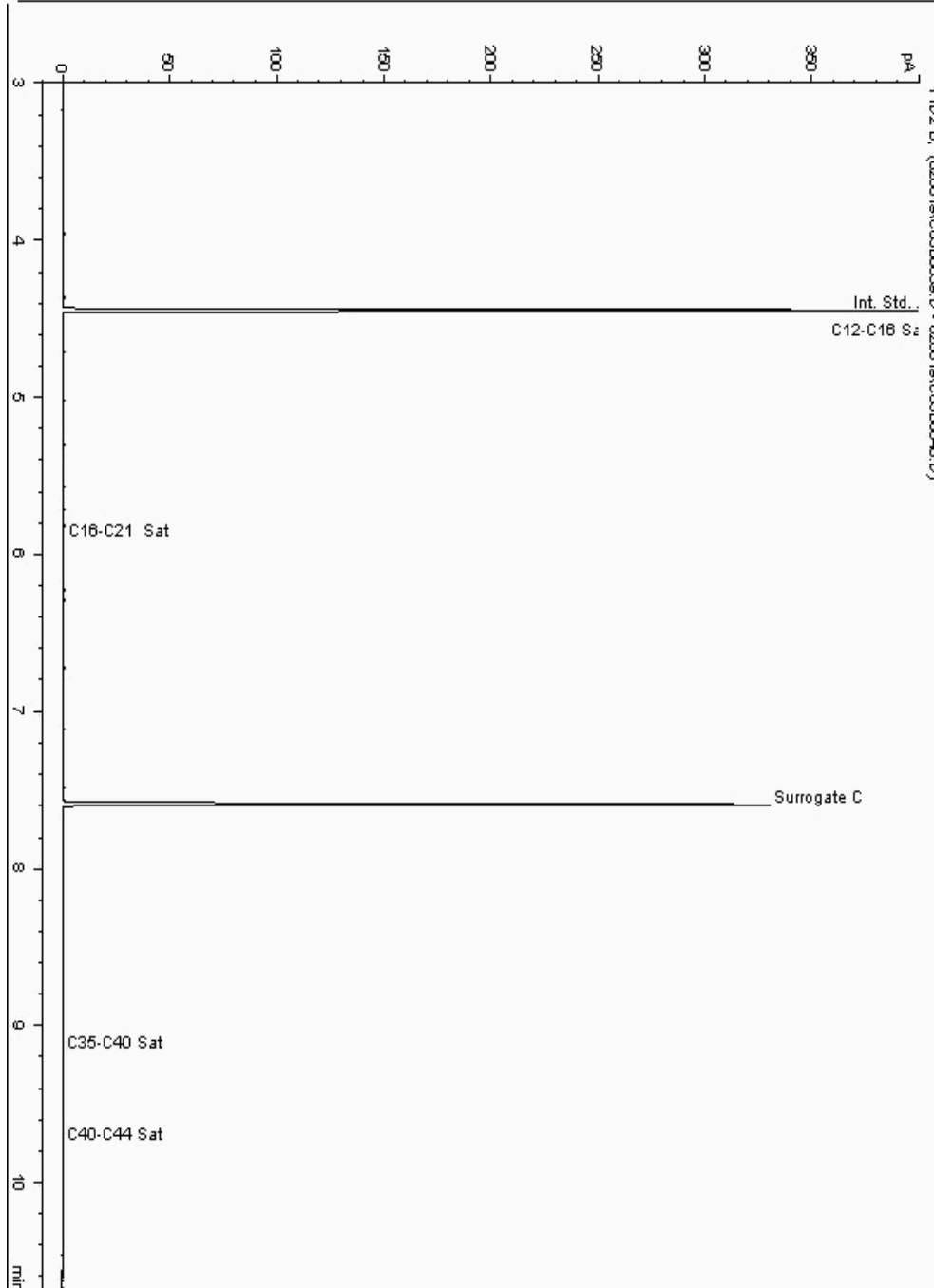
Analysis: EPH CWG (Aliphatic) GC (S)
19264059

Sample No :
Sample ID : BH240

19,264,059 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092717-
Date Acquired : 09/02/2019 00:45:45 PM
Units : ppb
Dilution: BH240[15.00 - 16.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

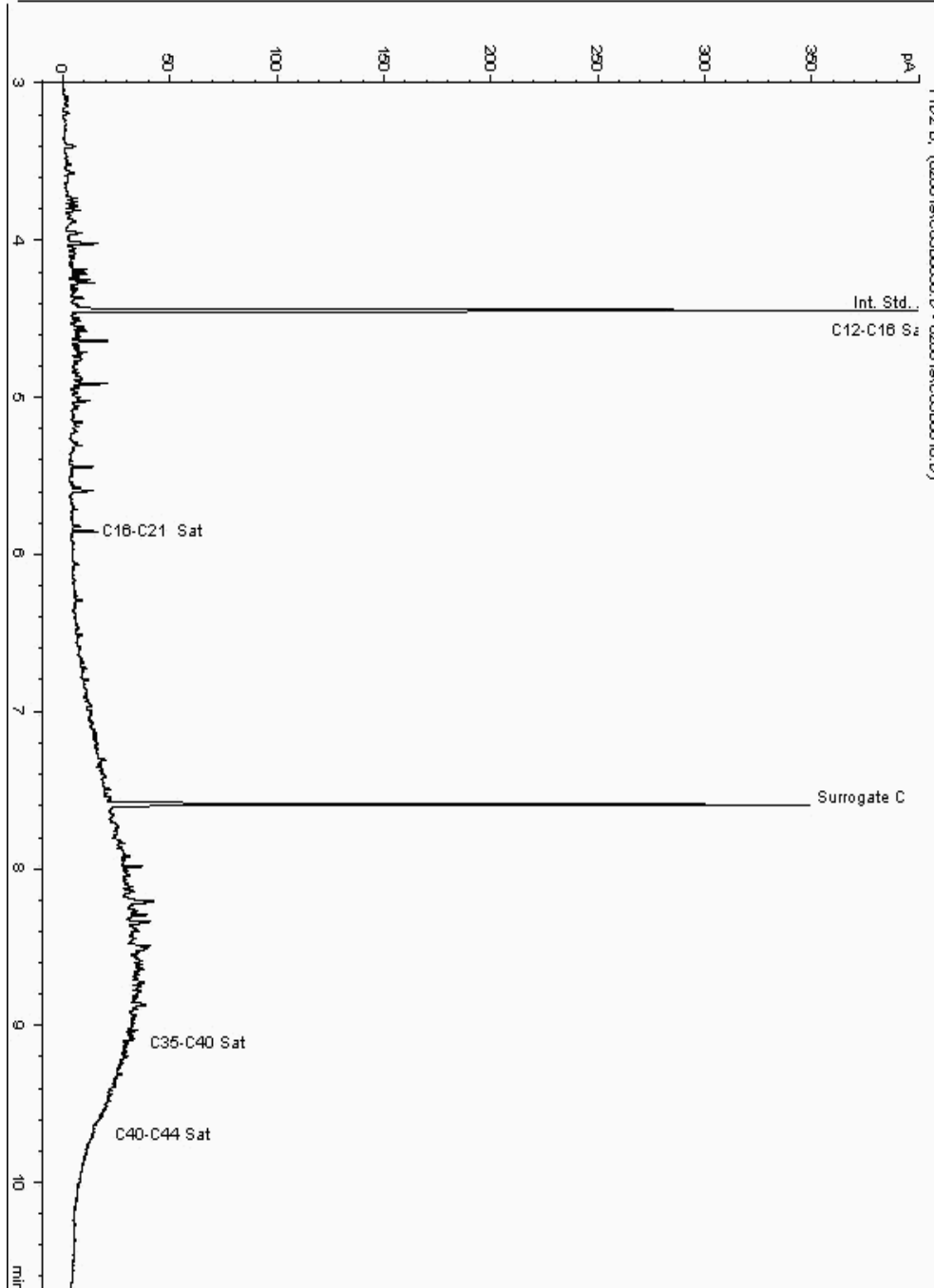
Analysis: EPH CWG (Aliphatic) GC (S)
19264321

Sample No :
Sample ID : BH240

19,264,321 Depth : 0.00 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091999-
Date Acquired : 08/02/2019 15:35:45 PM
Units : ppb
Dilution: BH240[0.00 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

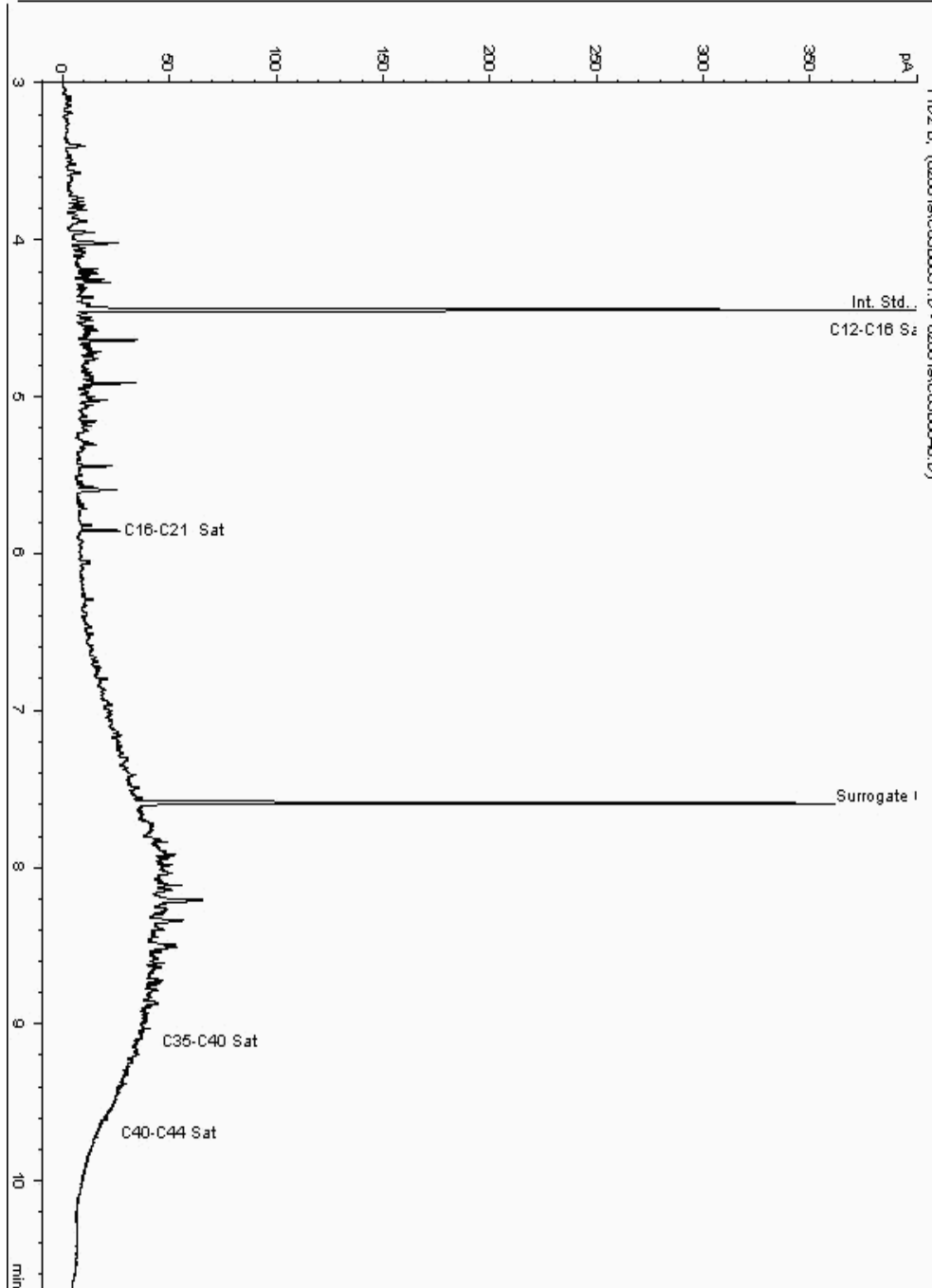
Analysis: EPH CWG (Aliphatic) GC (S)
19264368

Sample No :
Sample ID : BH240

19,264,368Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091920-
Date Acquired : 08/02/2019 22:10:11 PM
Units : ppb
Dilution: BH240[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

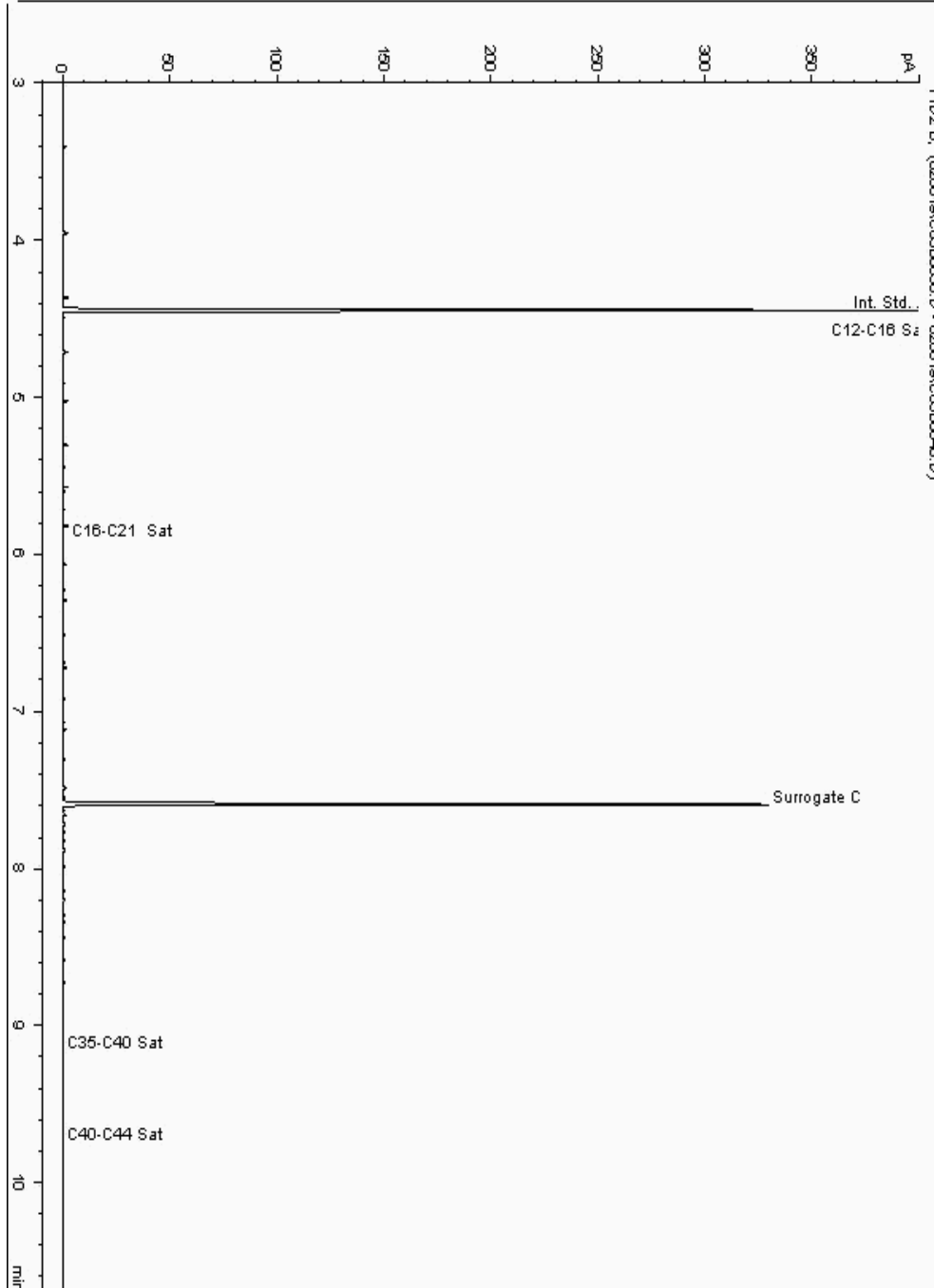
Analysis: EPH CWG (Aliphatic) GC (S)
19264463

Sample No :
Sample ID : BH240

19,264,463 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092617-
Date Acquired : 09/02/2019 00:25:15 PM
Units : ppb
Dilution: BH240[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

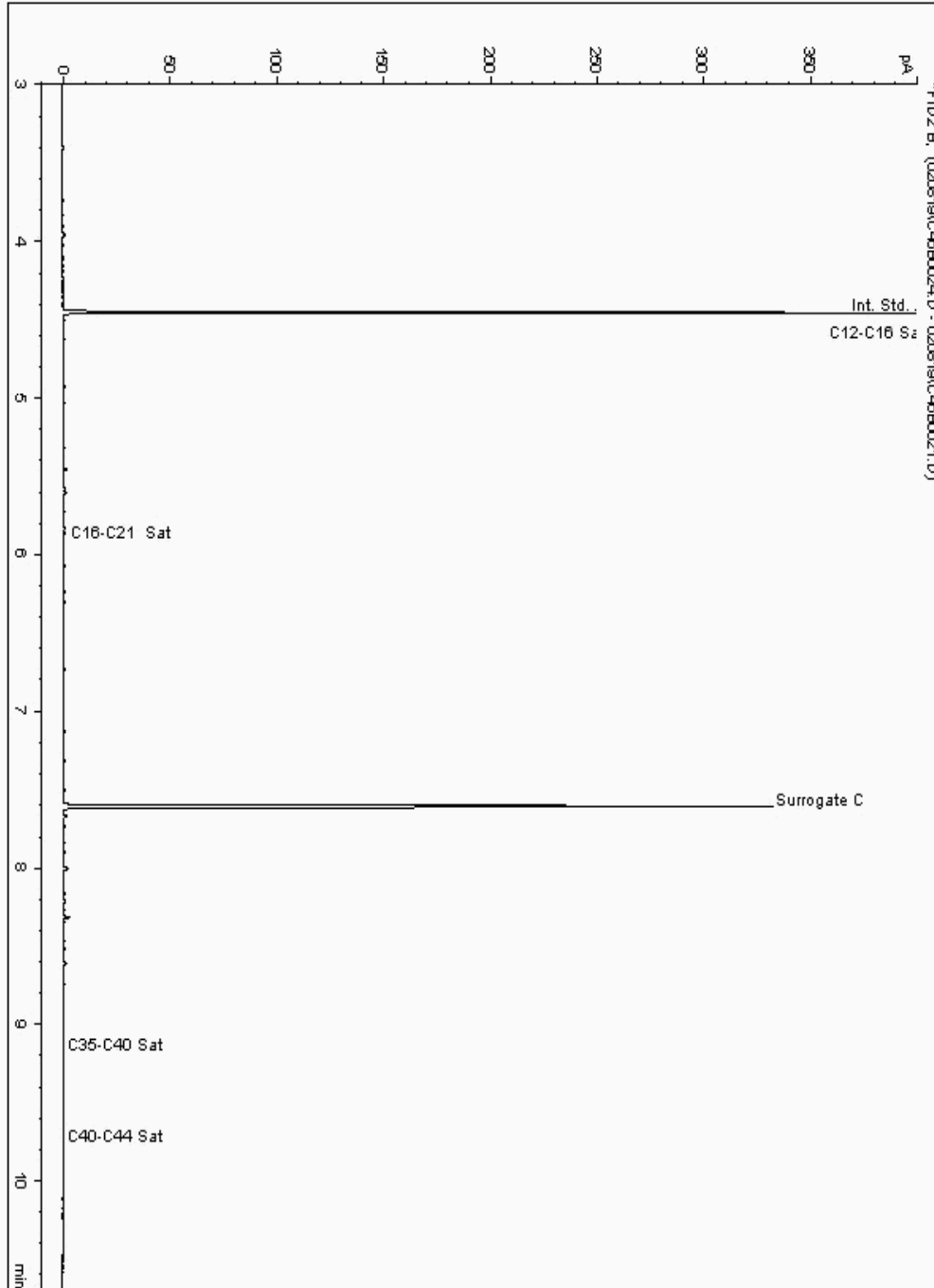
Analysis: EPH CWG (Aliphatic) GC (S)
19264473

Sample No :
Sample ID : BH239

19,264,473 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091621-
Date Acquired : 08/02/2019 15:38:17 PM
Units : ppb
Dilution: BH239[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

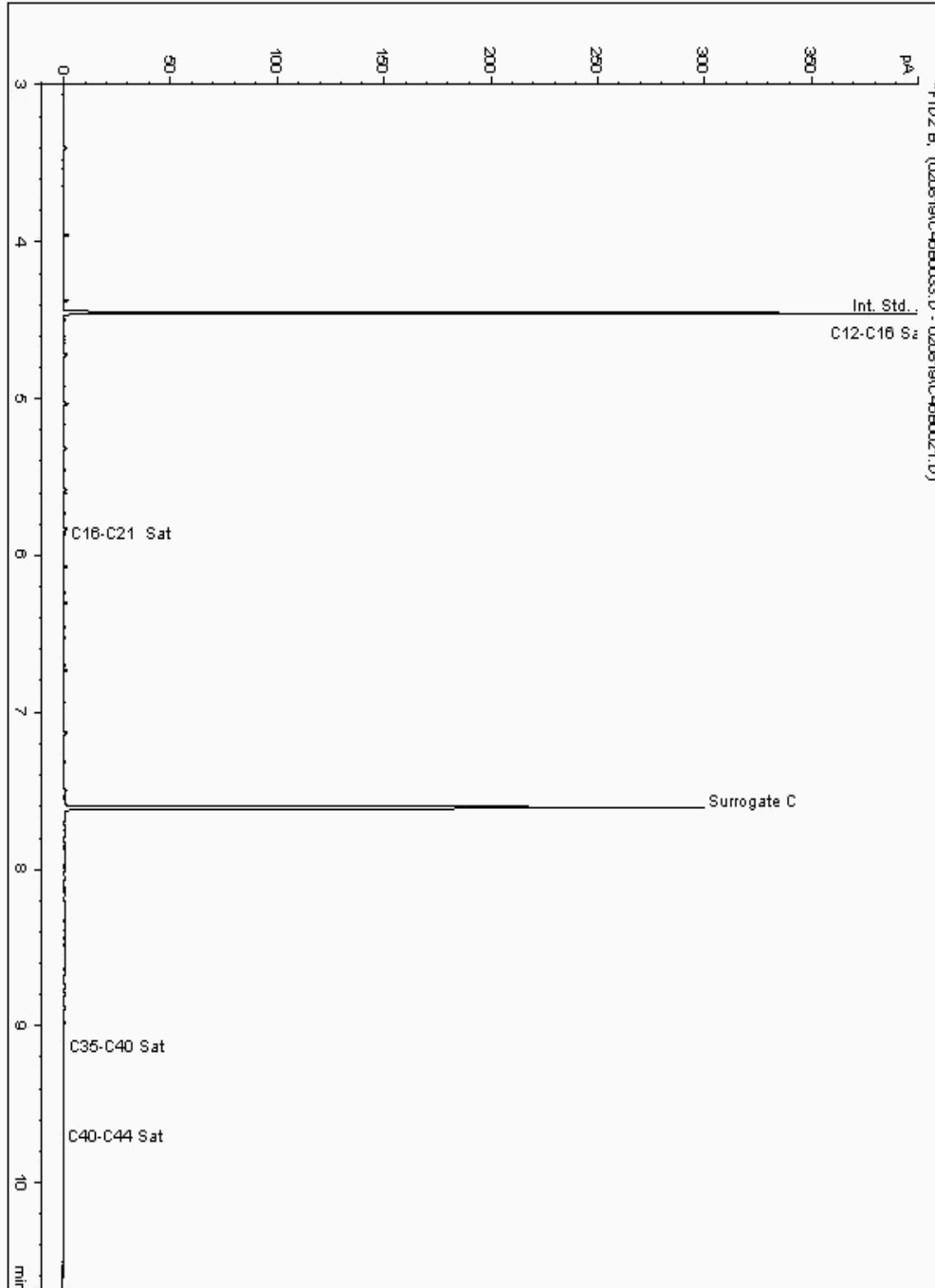
Analysis: EPH CWG (Aliphatic) GC (S)
19264493

Sample No :
Sample ID : BH239

19,264,493 Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091862-
Date Acquired : 08/02/2019 18:17:22 PM
Units : ppb
Dilution: BH239[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

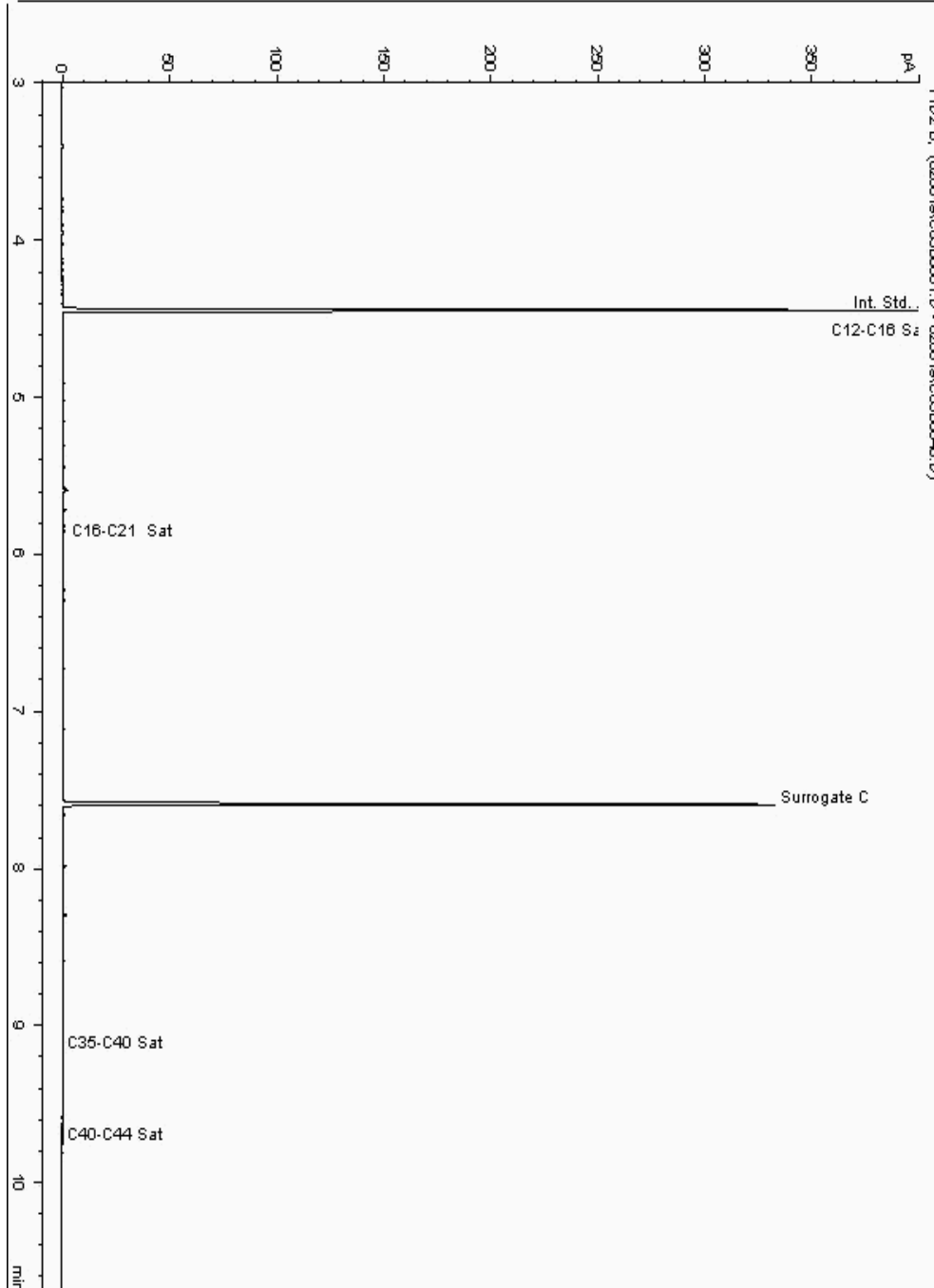
Analysis: EPH CWG (Aliphatic) GC (S)
19264510

Sample No :
Sample ID : BH239

19,264,510 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091647-
Date Acquired : 09/02/2019 01:26:41 PM
Units : ppb
Dilution: BH239[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

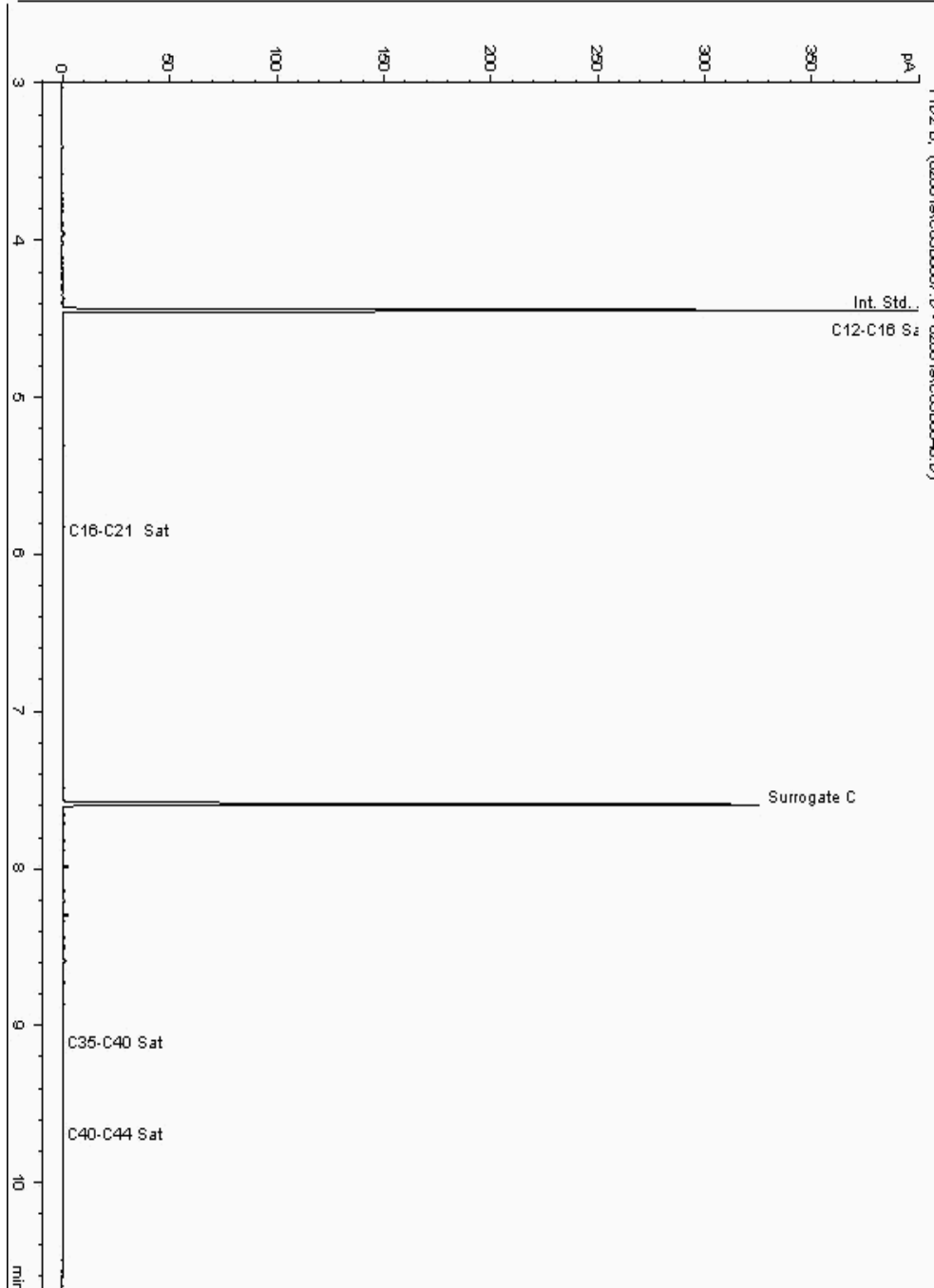
Analysis: EPH CWG (Aliphatic) GC (S)
19264903

Sample No :
Sample ID : BH240

19,264,903 Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092370-
Date Acquired : 09/02/2019 03:21:00 PM
Units : ppb
Dilution: BH240[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

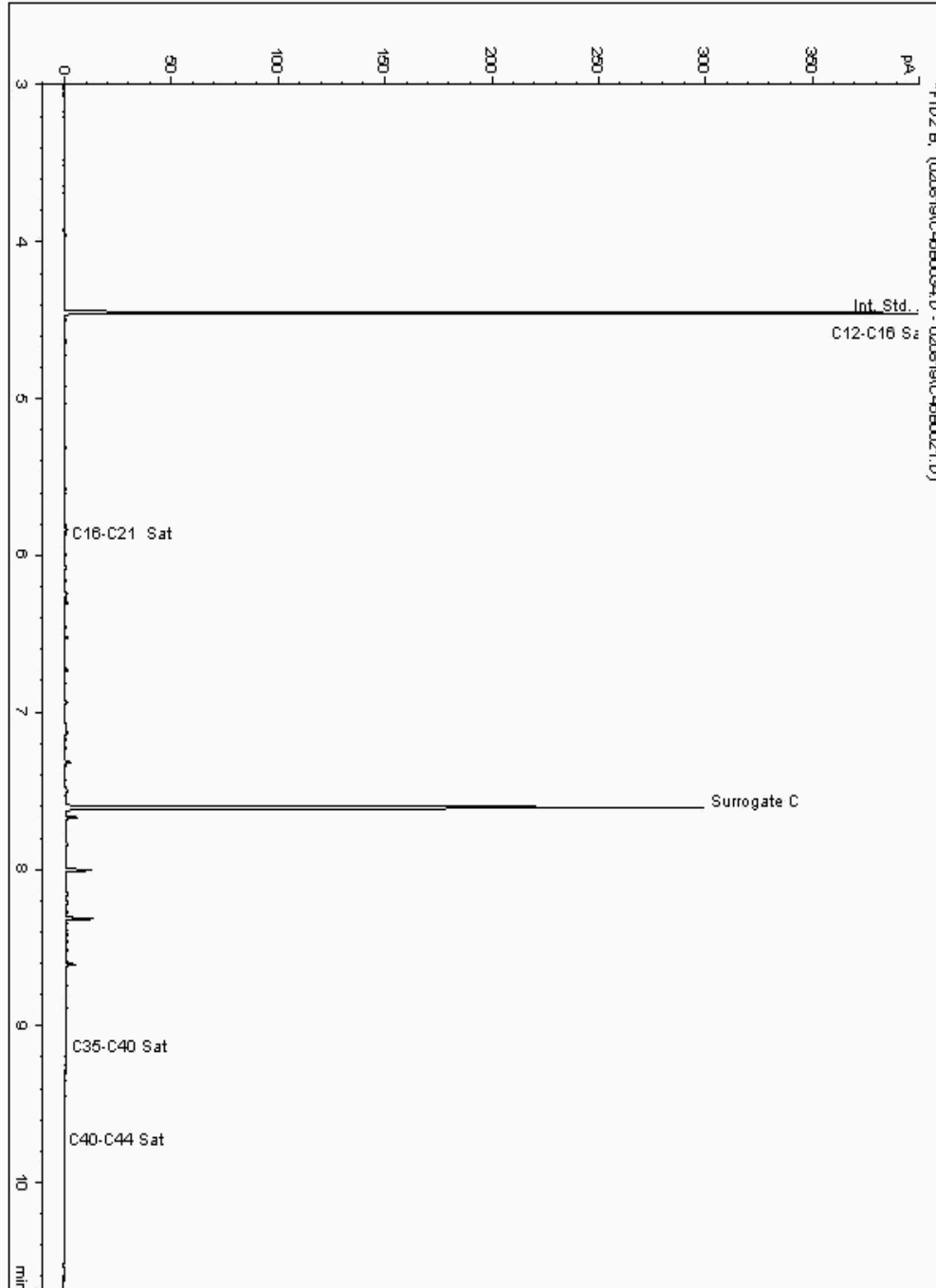
Analysis: EPH CWG (Aliphatic) GC (S)
19264929

Sample No :
Sample ID : BH240

19,264,929 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092085-
Date Acquired : 08/02/2019 18:37:40 PM
Units : ppb
Dilution: BH240[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

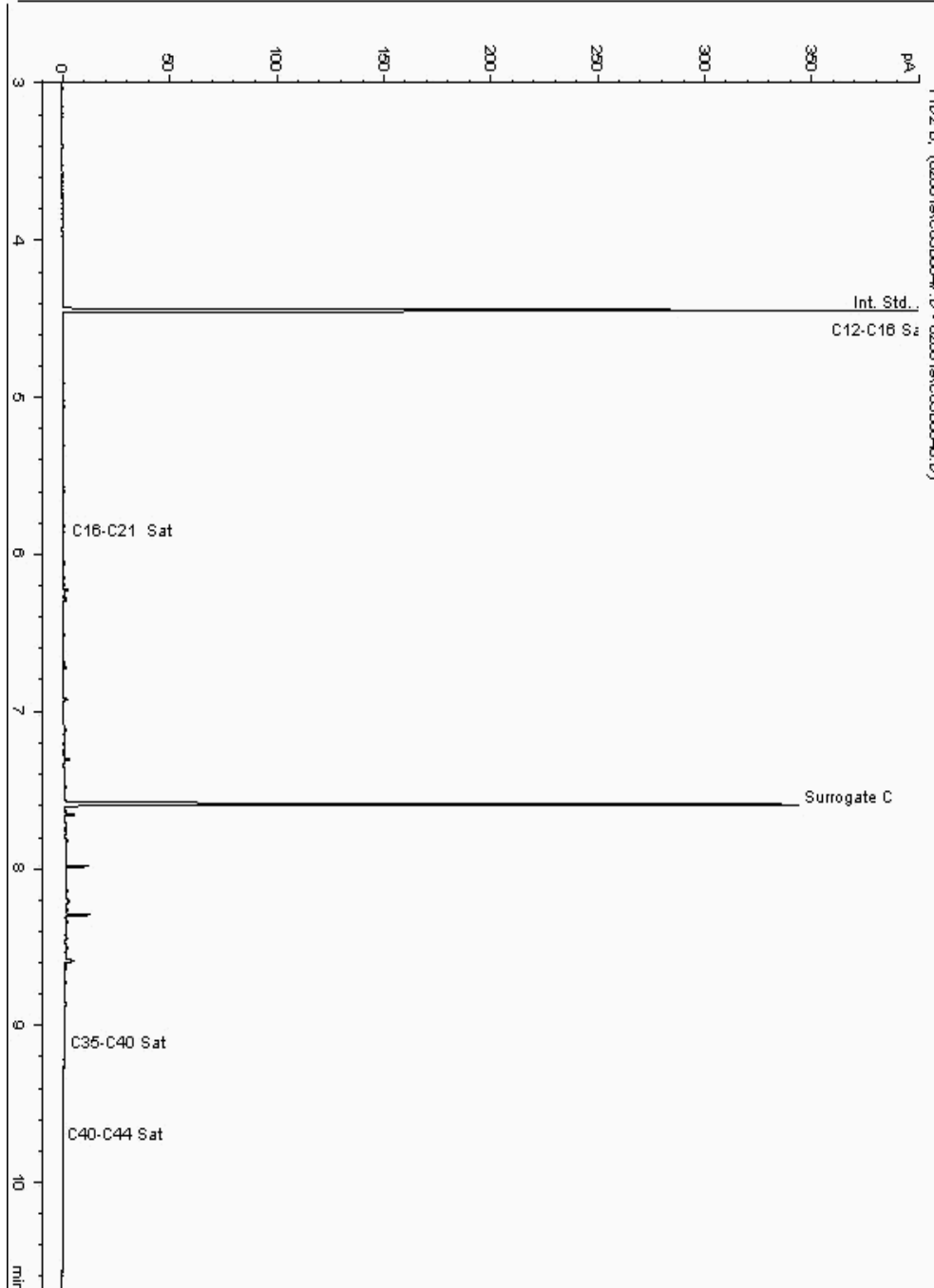
Analysis: EPH CWG (Aliphatic) GC (S)
19264958

Sample No :
Sample ID : BH240

19,264,958 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092295-
Date Acquired : 08/02/2019 21:04:22 PM
Units : ppb
Dilution: BH240[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

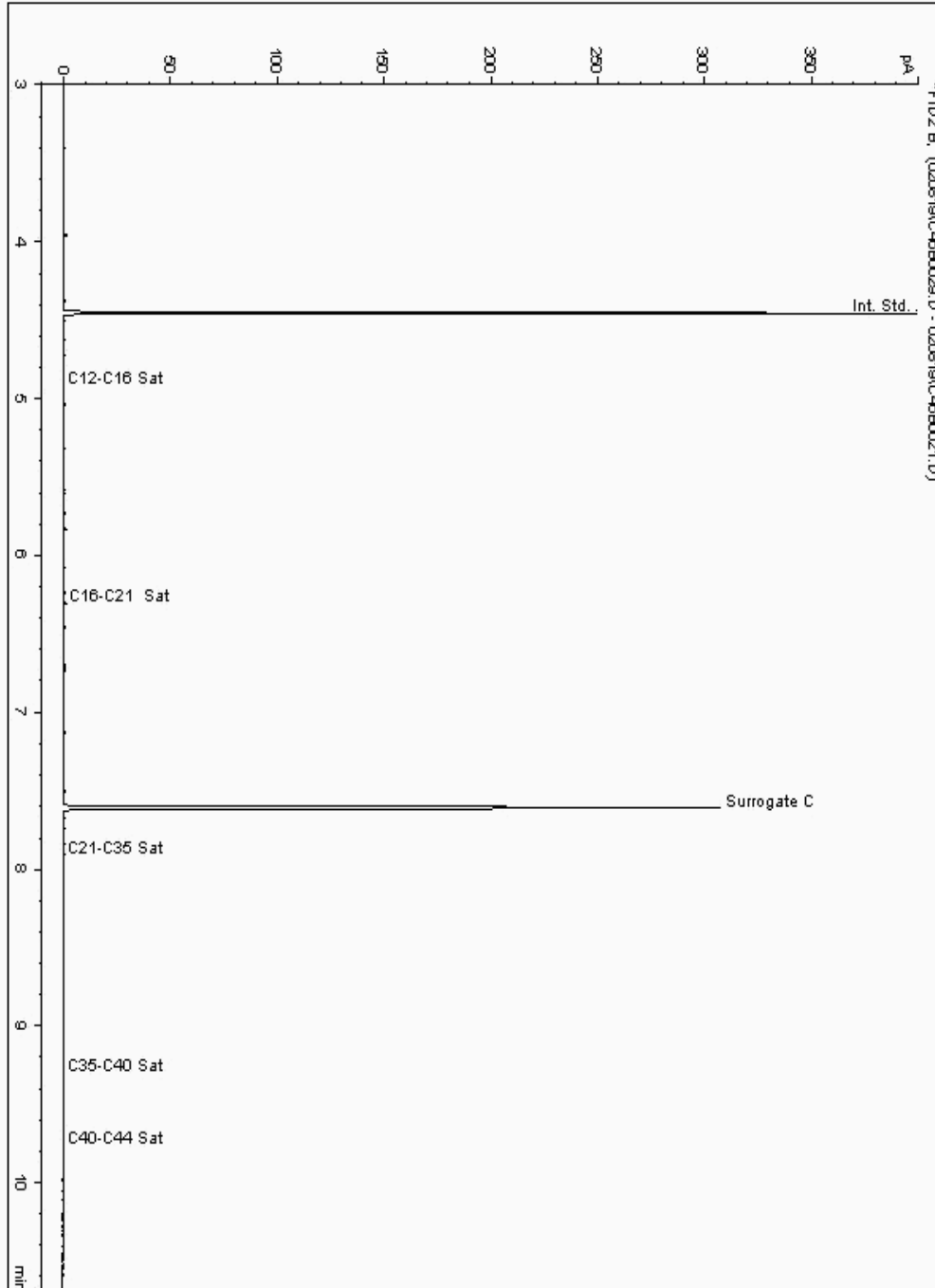
Analysis: EPH CWG (Aliphatic) GC (S)
19265082

Sample No :
Sample ID : BH239

19,265,082 Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091757-
Date Acquired : 08/02/2019 17:04:01 PM
Units : ppb
Dilution: BH239[11.00 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

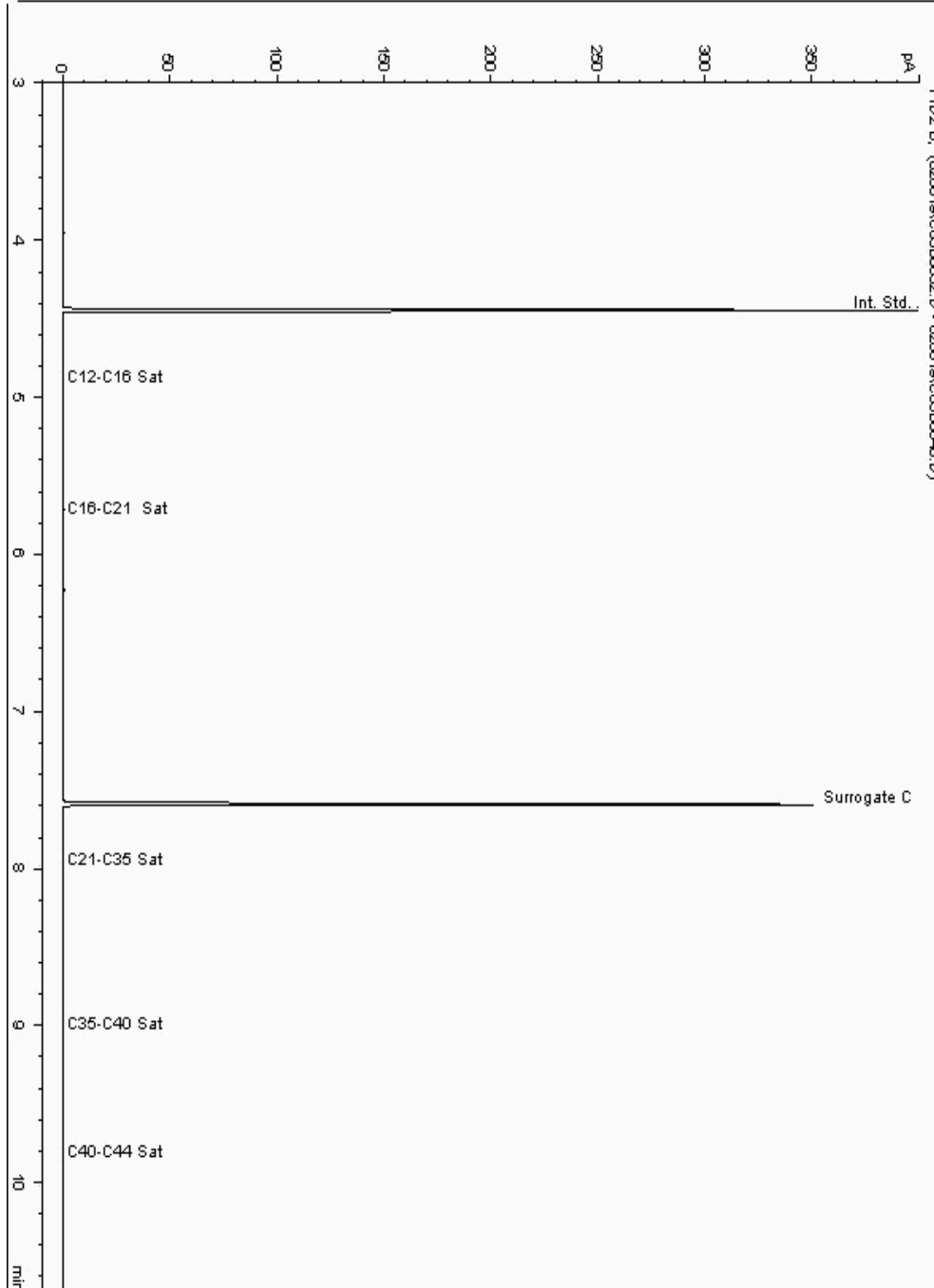
Analysis: EPH CWG (Aliphatic) GC (S)
19265088

Sample No :
Sample ID : BH239

19,265,088Depth :8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18091702-
Date Acquired : 08/02/2019 22:30:40 PM
Units : ppb
Dilution: BH239[8.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

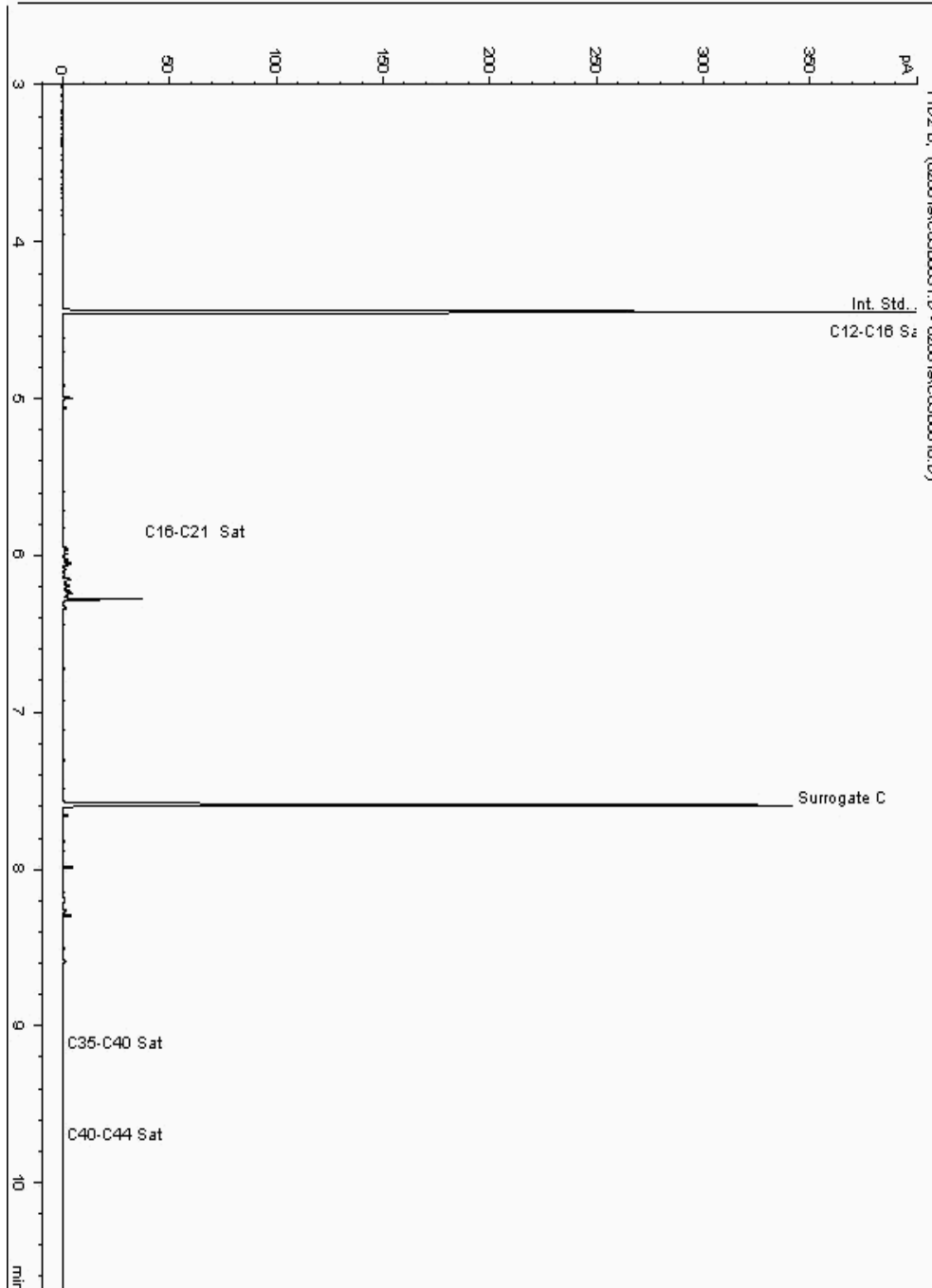
Analysis: EPH CWG (Aliphatic) GC (S)
19265109

Sample No :
Sample ID : BH240

19,265,109Depth :2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092206-
Date Acquired : 08/02/2019 15:56:21 PM
Units : ppb
Dilution: BH240[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

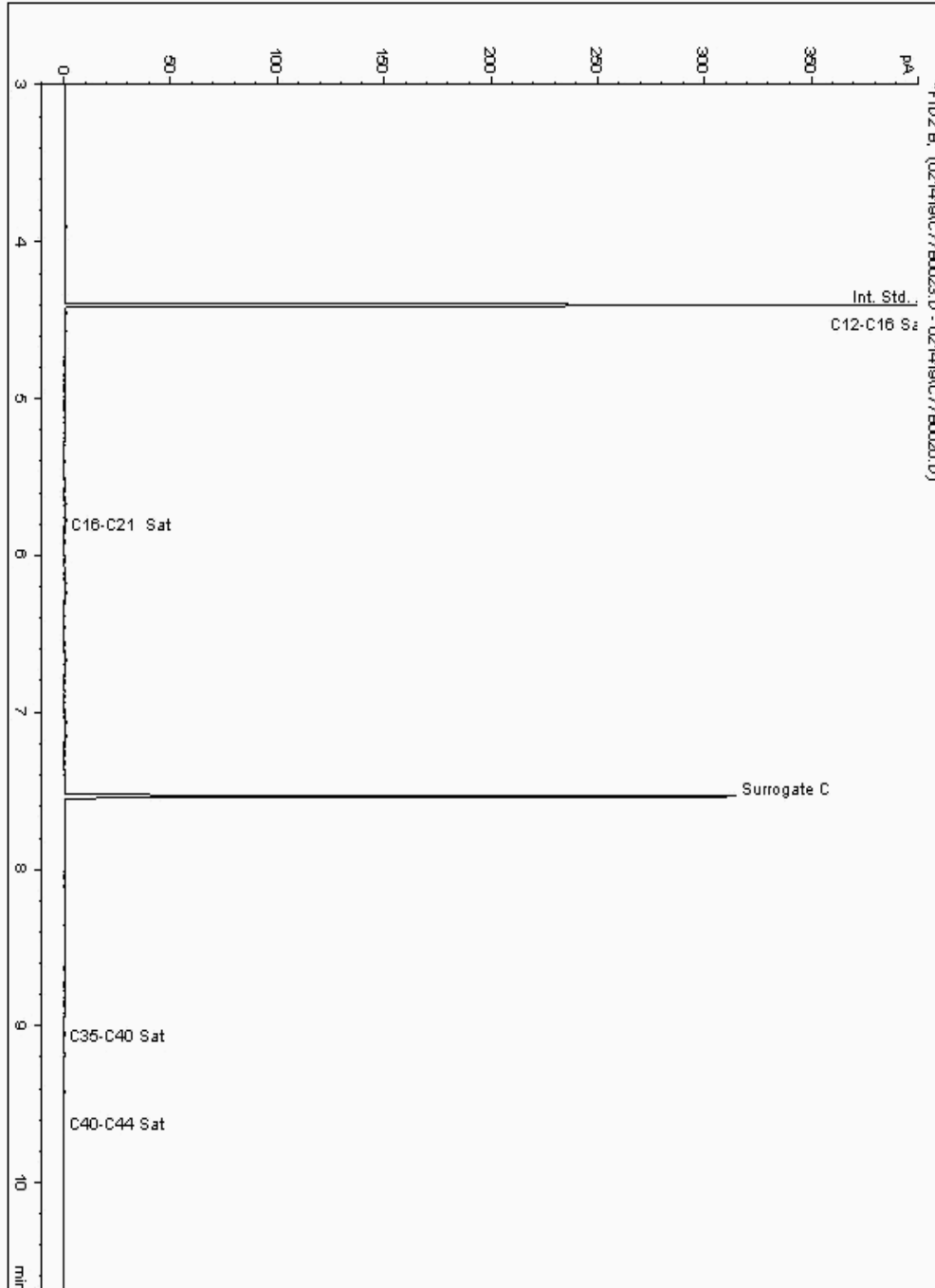
Analysis: EPH CWG (Aliphatic) GC (S)
19286113

Sample No :
Sample ID : BH242

19,286,113 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110644-
Date Acquired : 14/02/2019 18:52:00 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

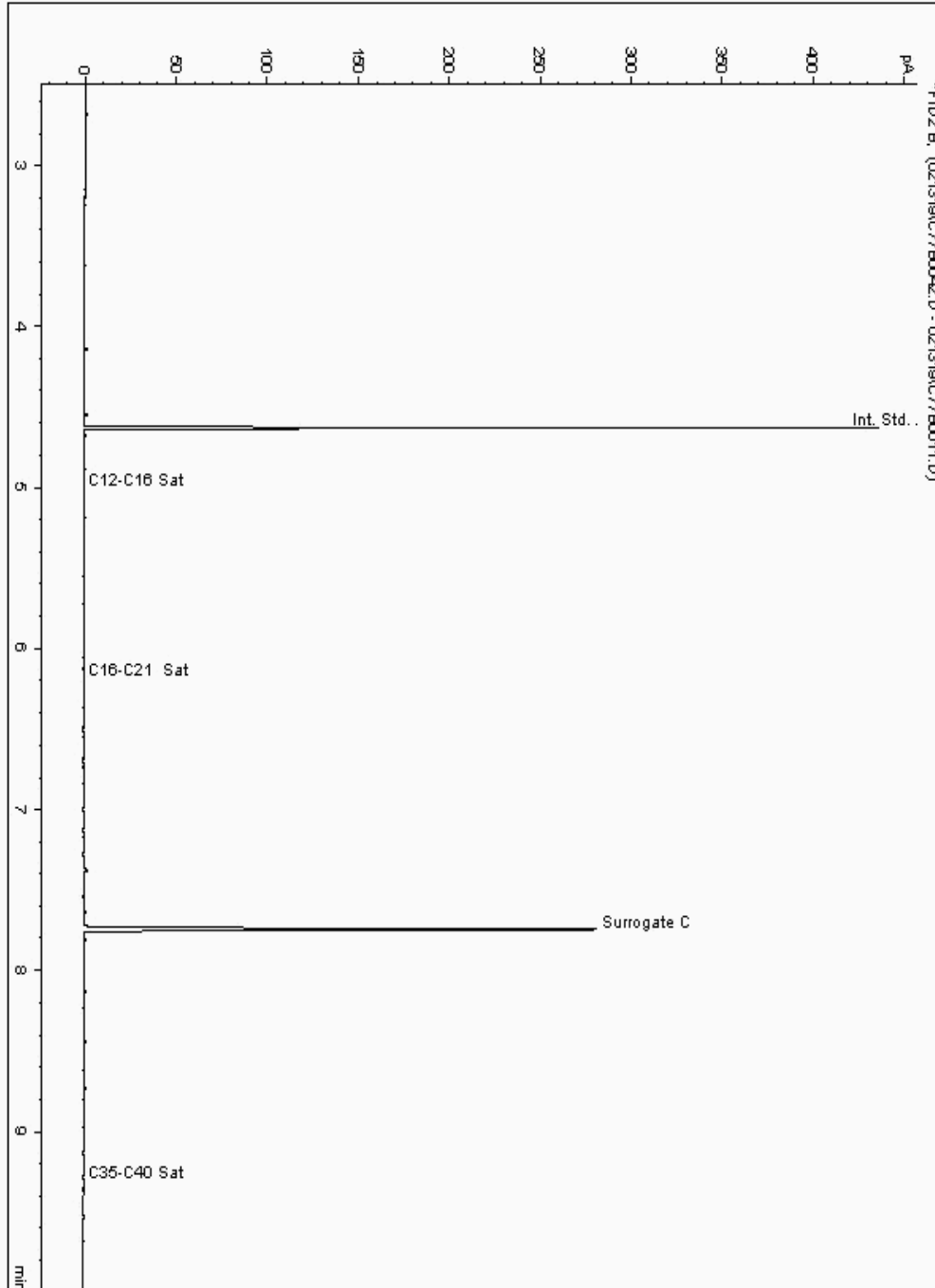
Analysis: EPH CWG (Aliphatic) GC (S)
19286388

Sample No :
Sample ID : BH242

19,286,388 Depth : 5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110598-
Date Acquired : 2/13/2019 8:34:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

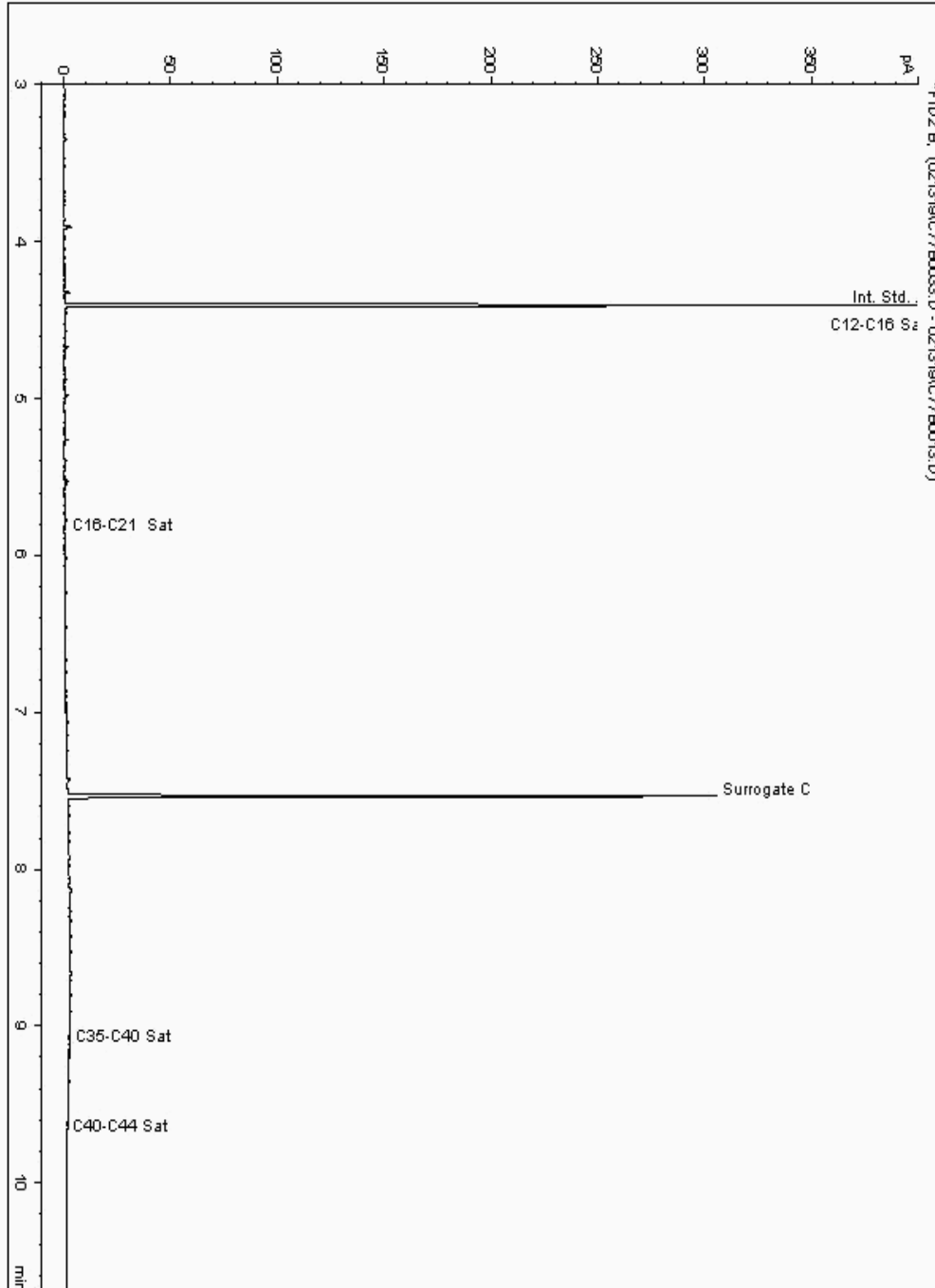
Analysis: EPH CWG (Aliphatic) GC (S)
19287158

Sample No :
Sample ID : BH242

19,287,158 Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110962-
Date Acquired : 13/02/2019 19:45:37 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

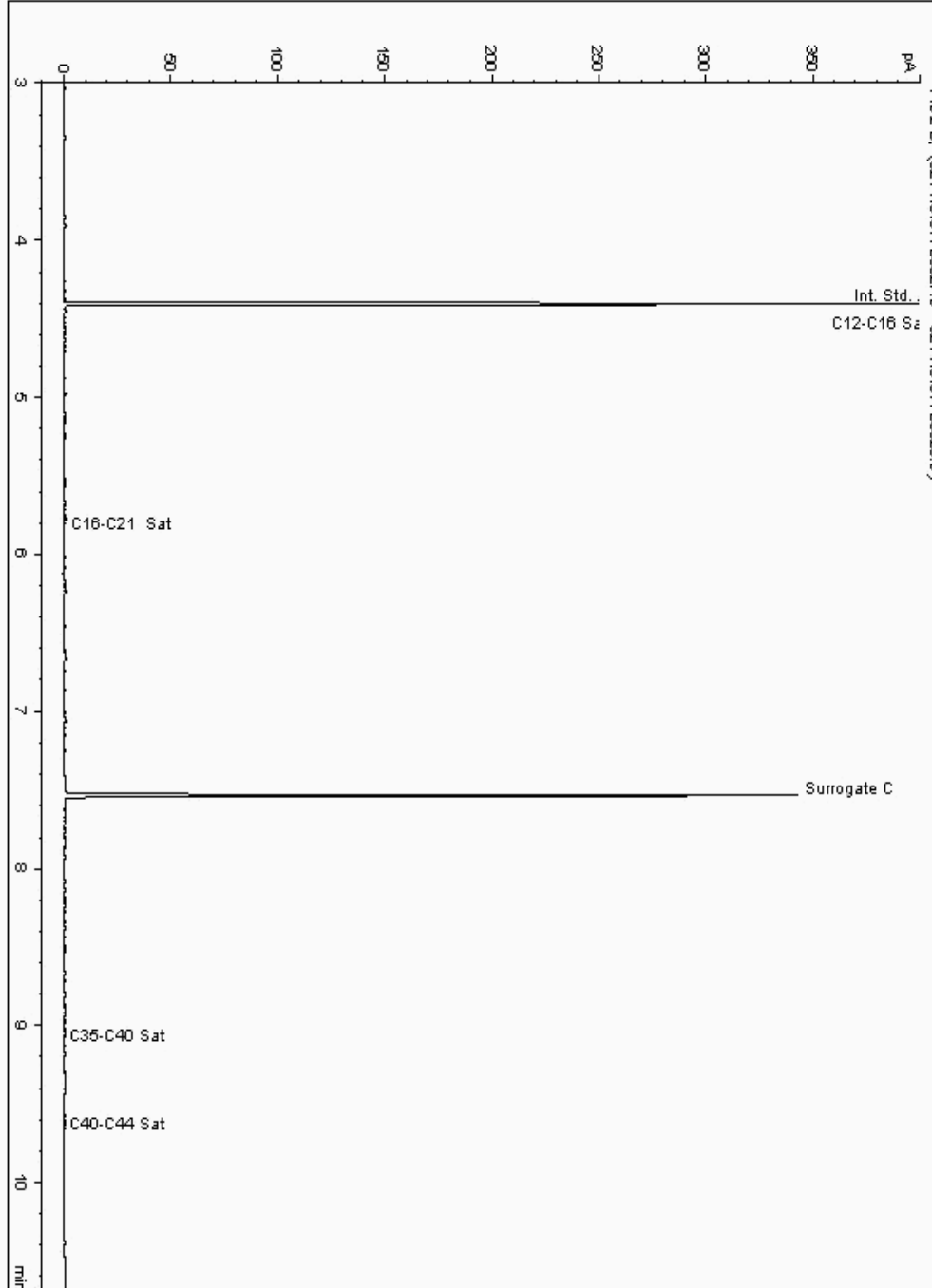
Analysis: EPH CWG (Aliphatic) GC (S)
19312015

Sample No :
Sample ID : BH242

19,312,015 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110781-
Date Acquired : 14/02/2019 20:11:58 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

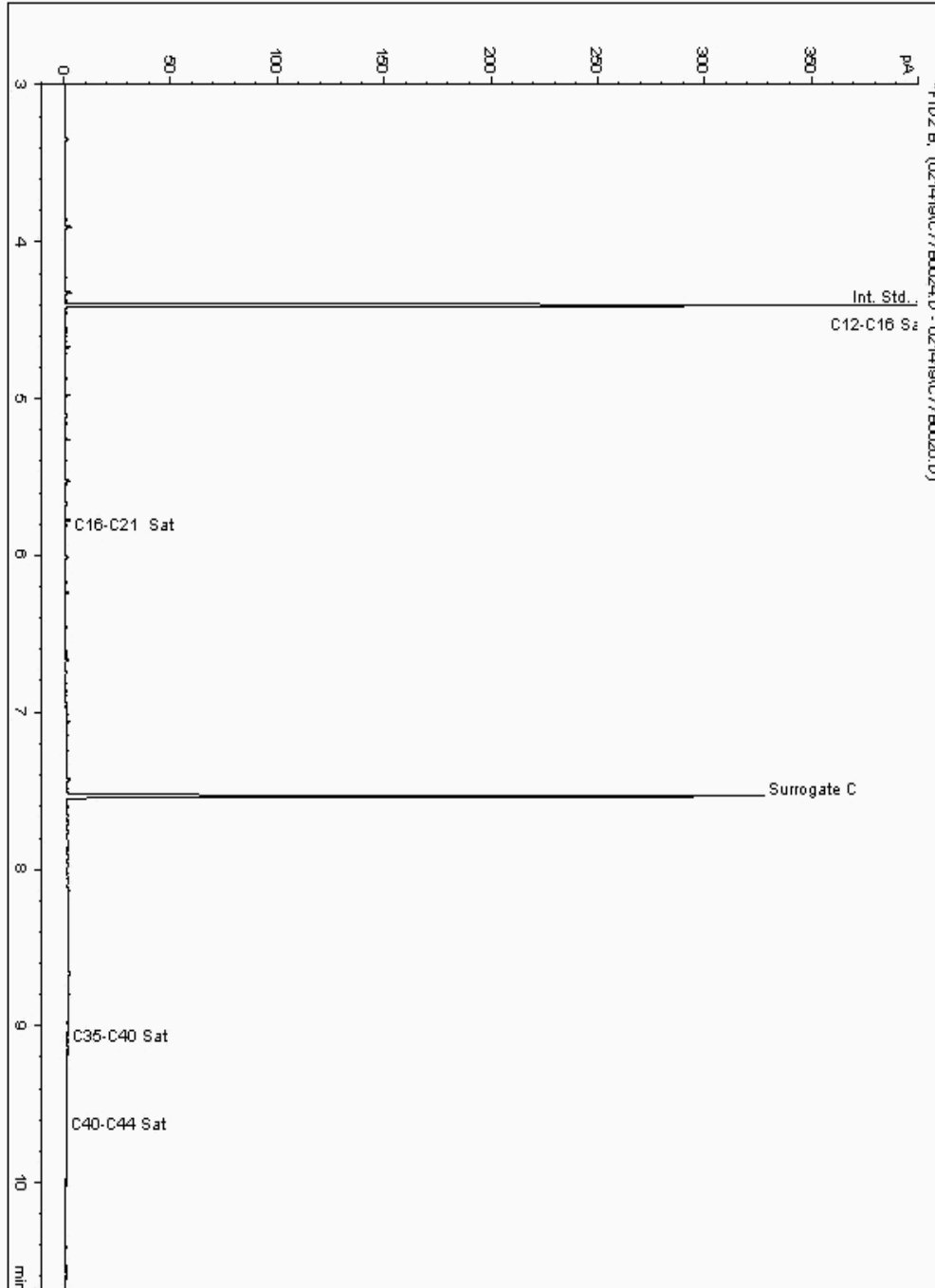
Analysis: EPH CWG (Aliphatic) GC (S)
19312183

Sample No :
Sample ID : BH242

19,312,183 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110914-
Date Acquired : 14/02/2019 19:11:59 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

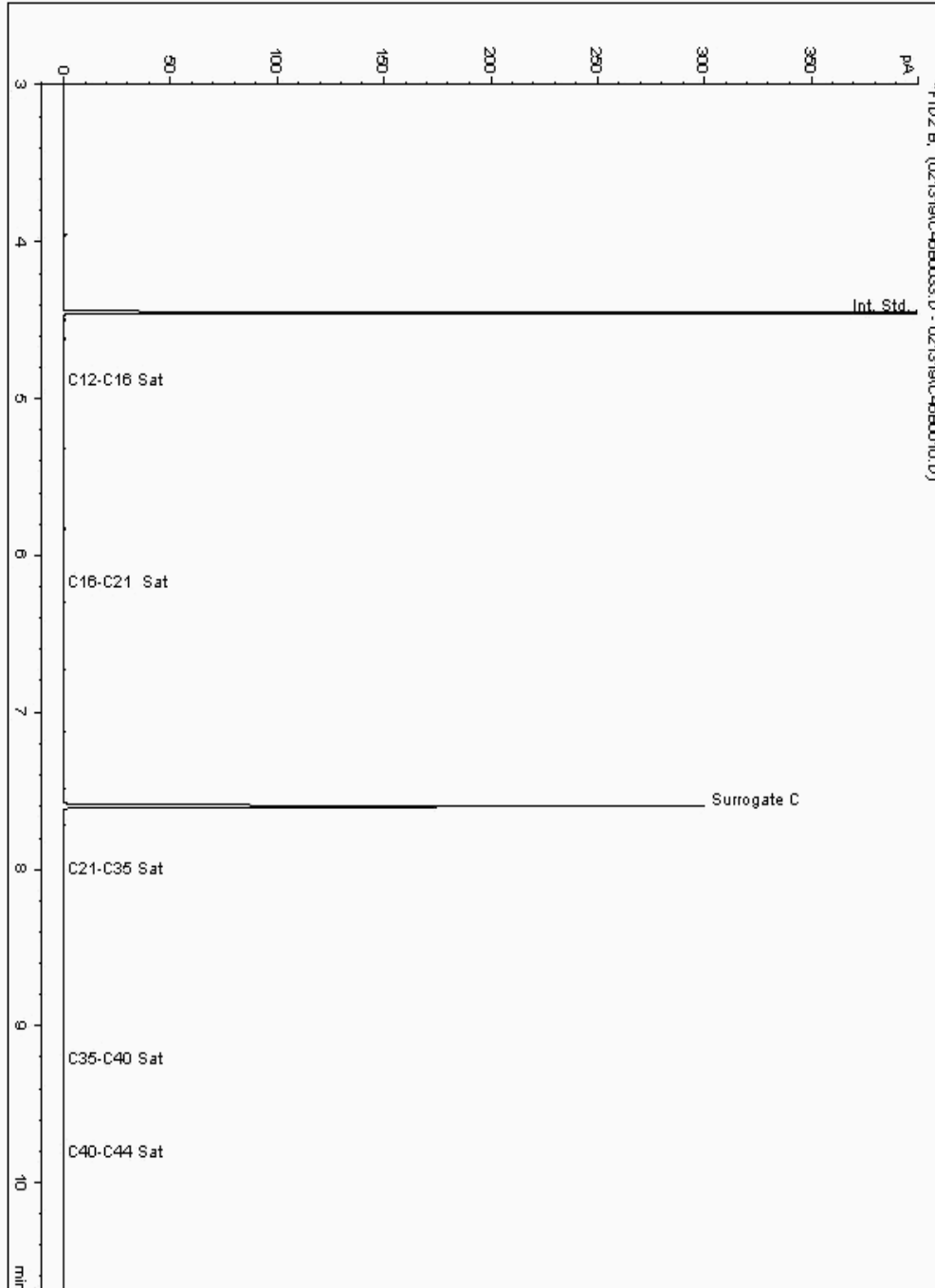
Analysis: EPH CWG (Aliphatic) GC (S)
19312288

Sample No :
Sample ID : BH242

19,312,288Depth :8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110689-
Date Acquired : 13/02/2019 19:57:41 PM
Units : ppb
Dilution: BH242[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

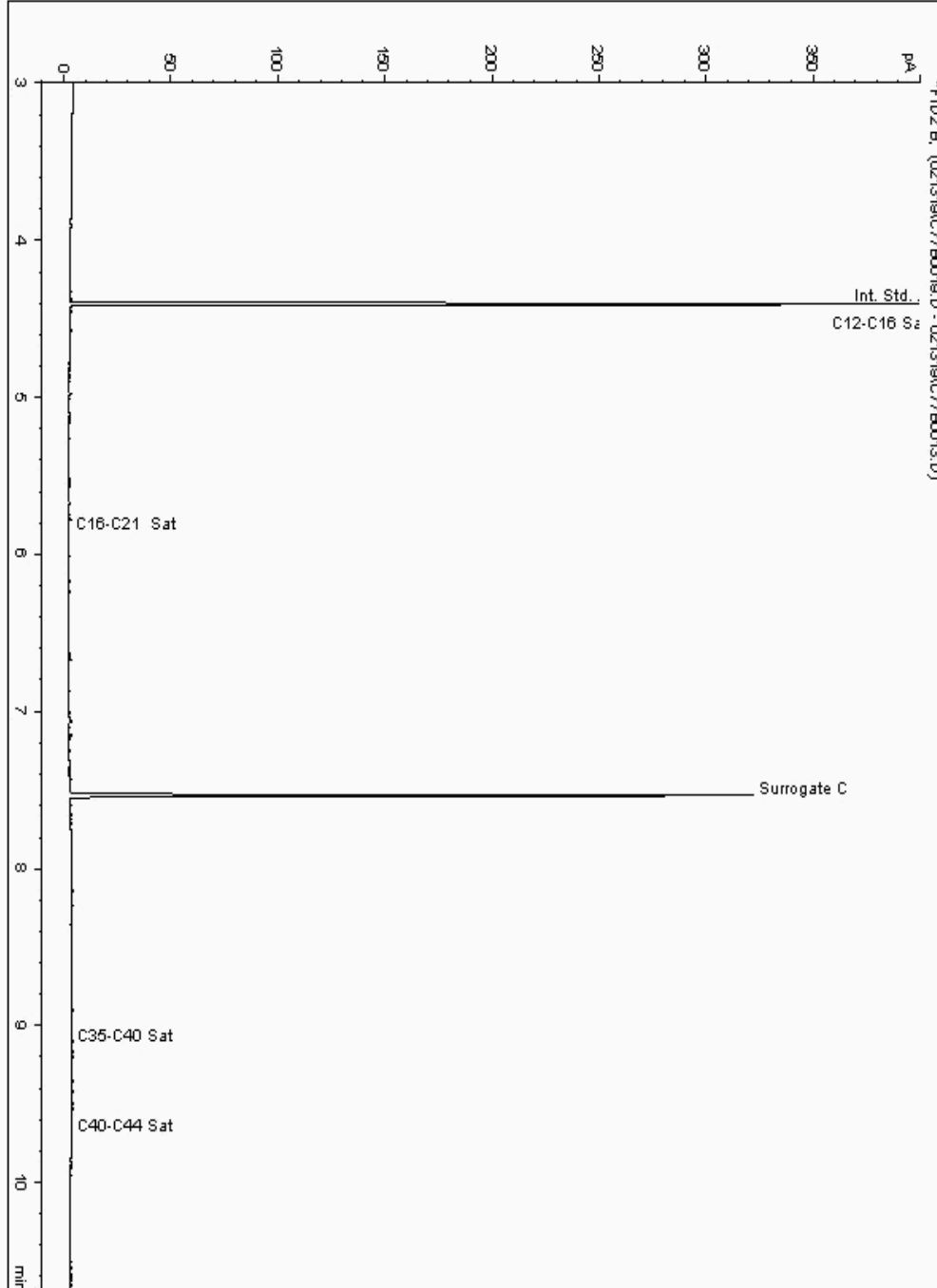
Analysis: EPH CWG (Aliphatic) GC (S)
19312371

Sample No :
Sample ID : BH242

19,312,371 Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18109999-
Date Acquired : 13/02/2019 15:53:18 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

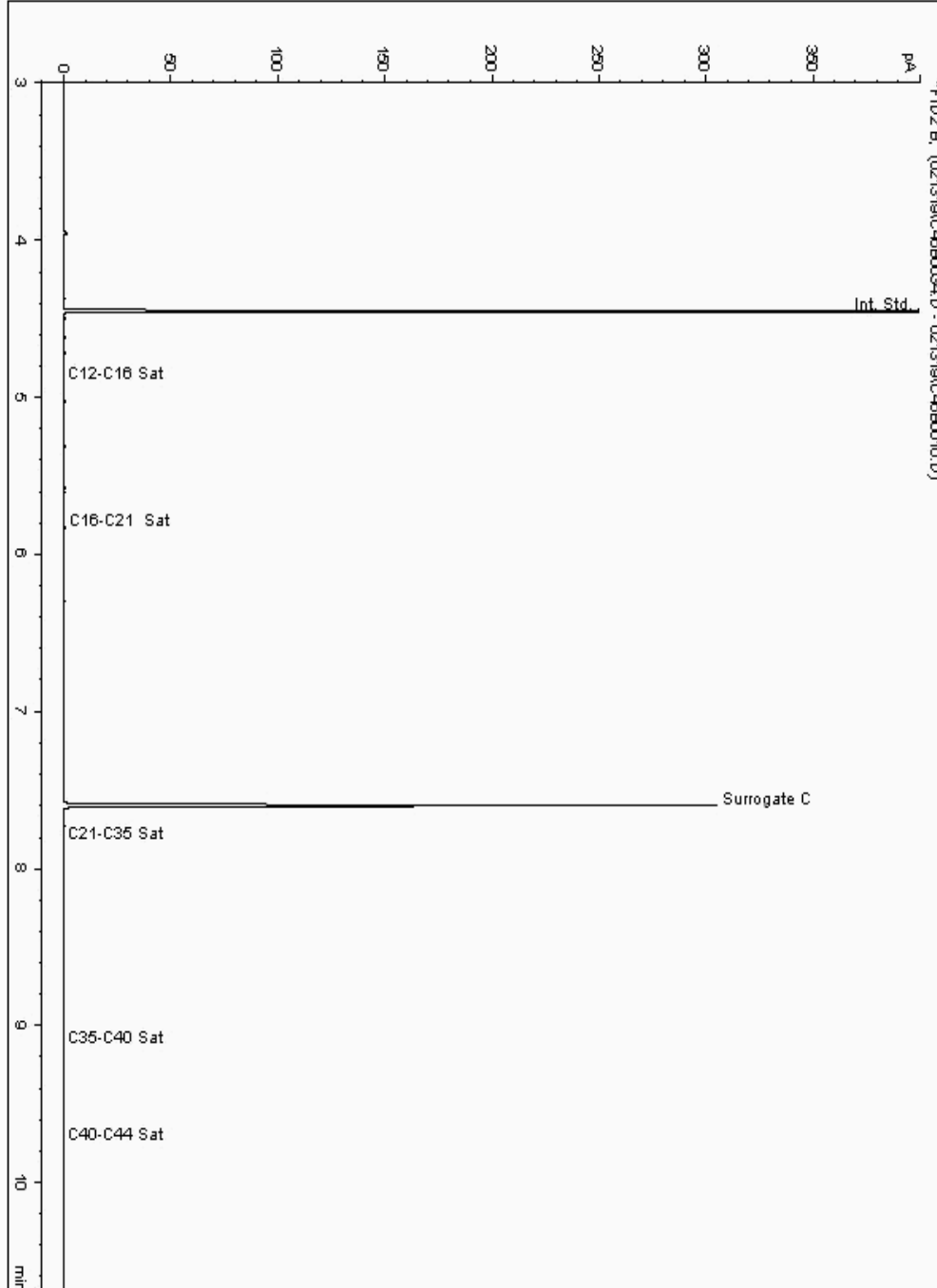
Analysis: EPH CWG (Aliphatic) GC (S)
19312414

Sample No :
Sample ID : BH242

19,312,414 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110734-
Date Acquired : 13/02/2019 20:17:50 PM
Units : ppb
Dilution: BH242[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

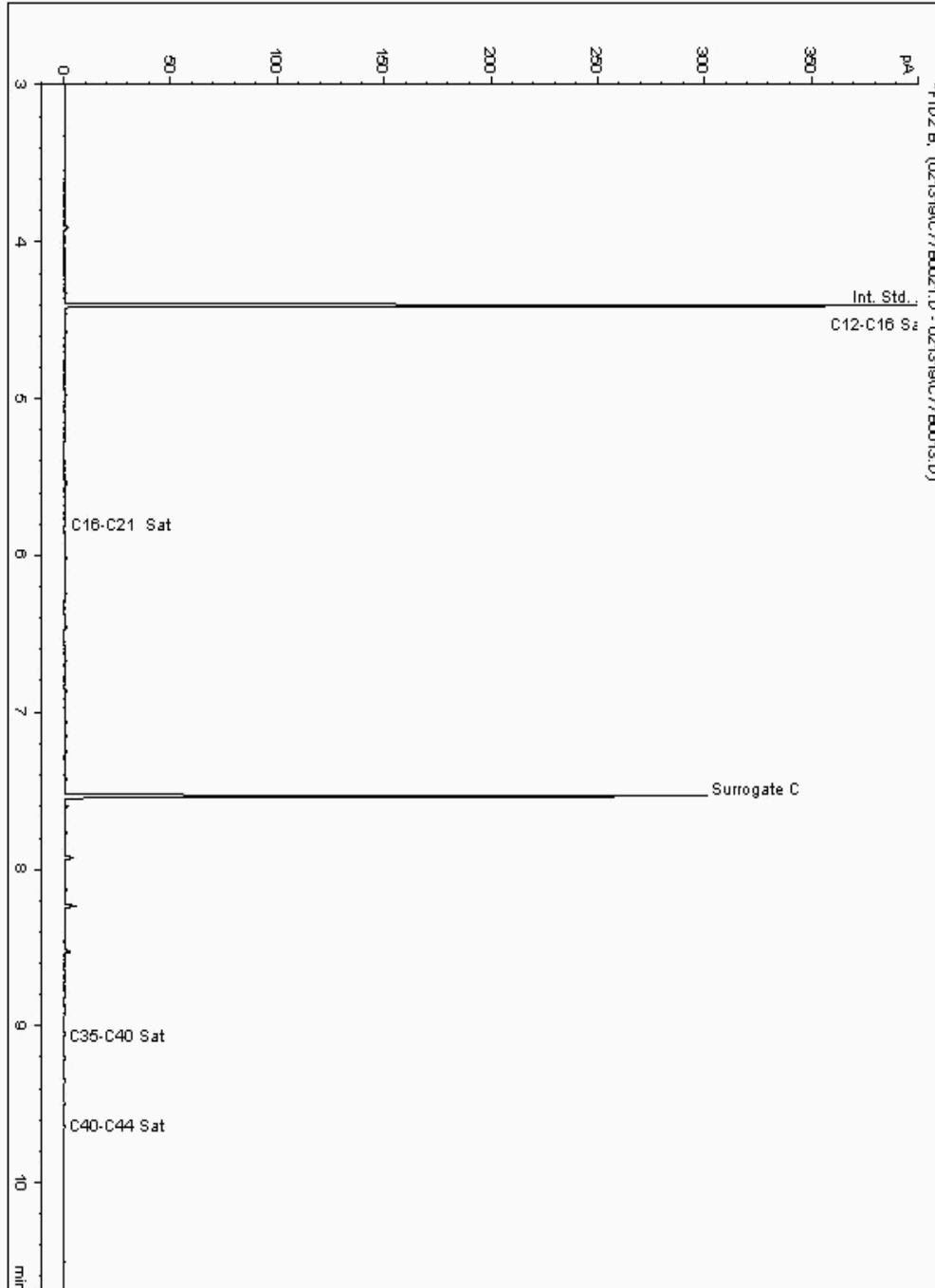
Analysis: EPH CWG (Aliphatic) GC (S)
19312819

Sample No :
Sample ID : BH242

19,312,819 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110156-
Date Acquired : 13/02/2019 16:25:38 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

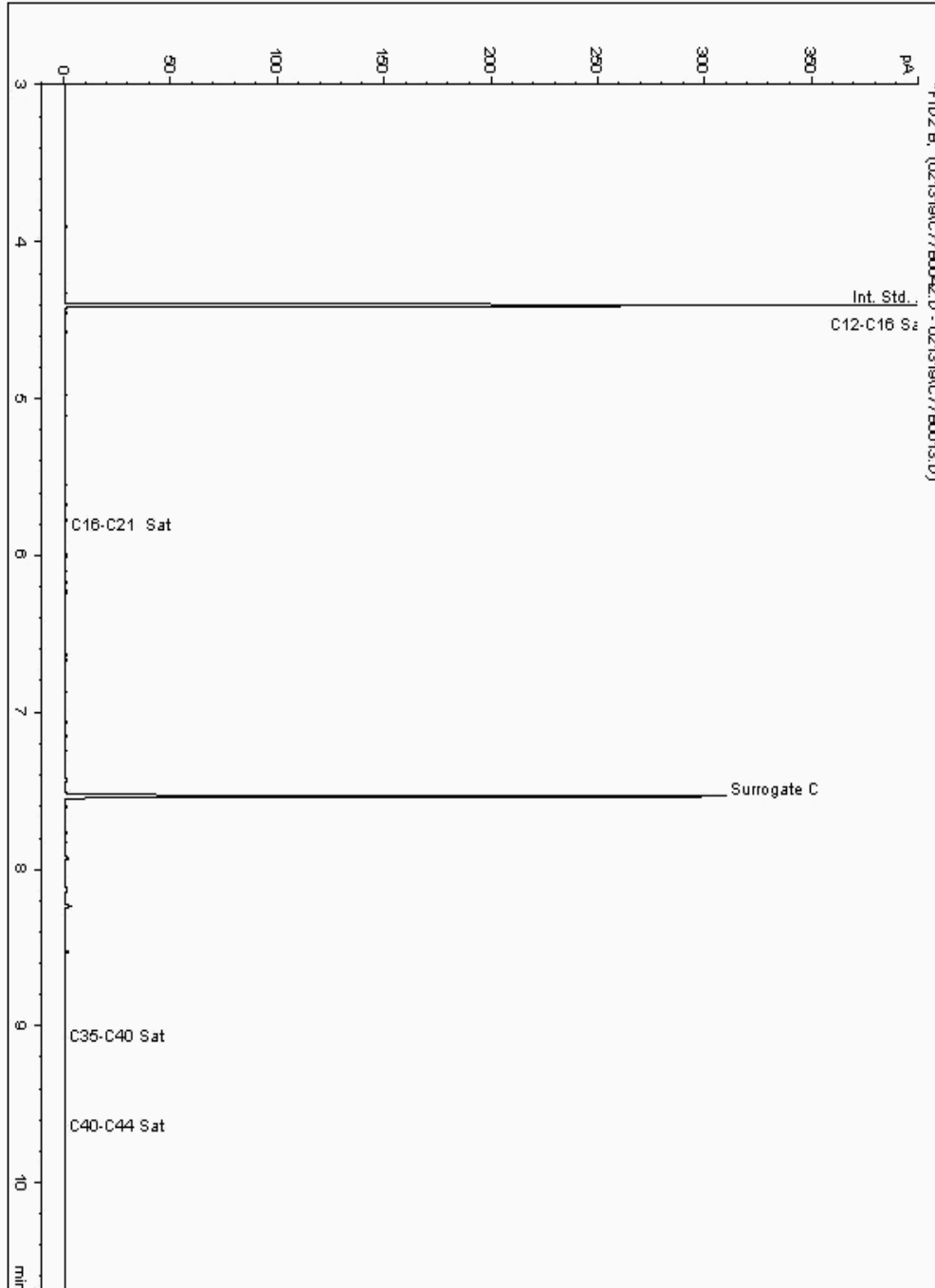
Analysis: EPH CWG (Aliphatic) GC (S)
19312870

Sample No :
Sample ID : BH242

19,312,870 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110235-
Date Acquired : 13/02/2019 22:21:02 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

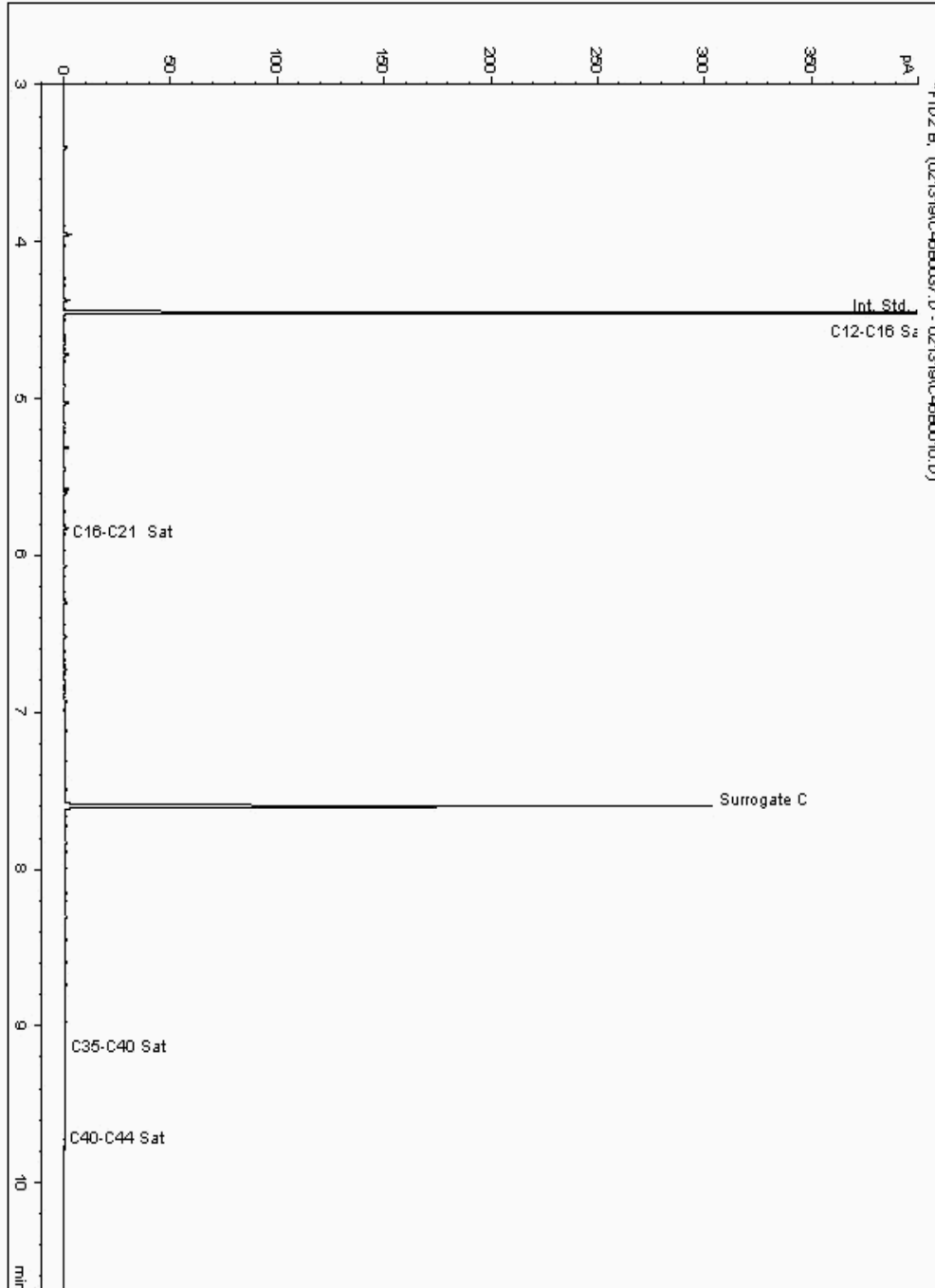
Analysis: EPH CWG (Aliphatic) GC (S)
19313005

Sample No :
Sample ID : BH242

19,313,005Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110854-
Date Acquired : 13/02/2019 21:18:01 PM
Units : ppb
Dilution: BH242[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

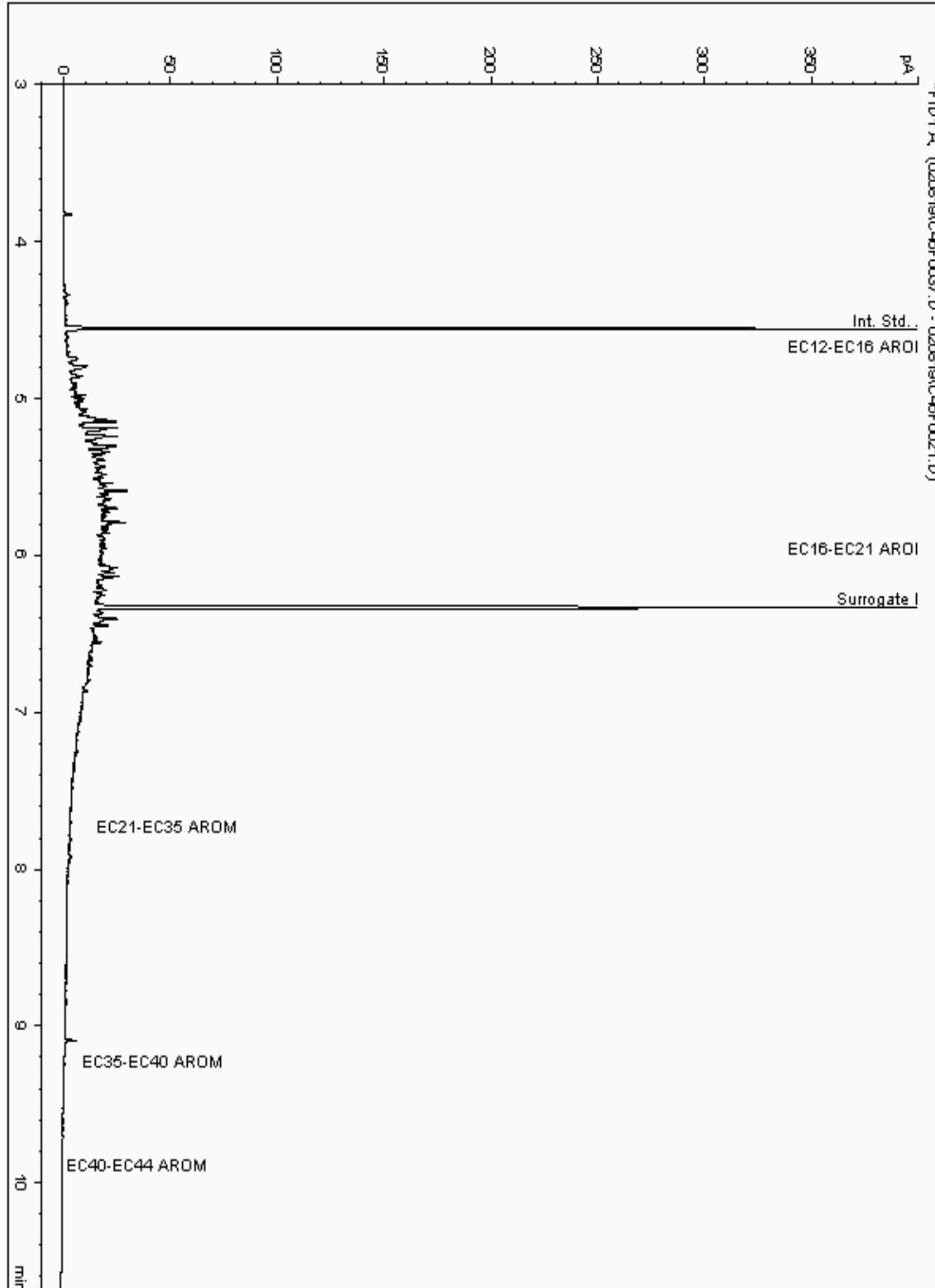
Analysis: EPH CWG (Aromatic) GC (S)
19262633

Sample No :
Sample ID : BH239

19,262,633 Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091181-
Date Acquired : 08/02/2019 19:30:39 PM
Units : ppb
Dilution: BH239[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

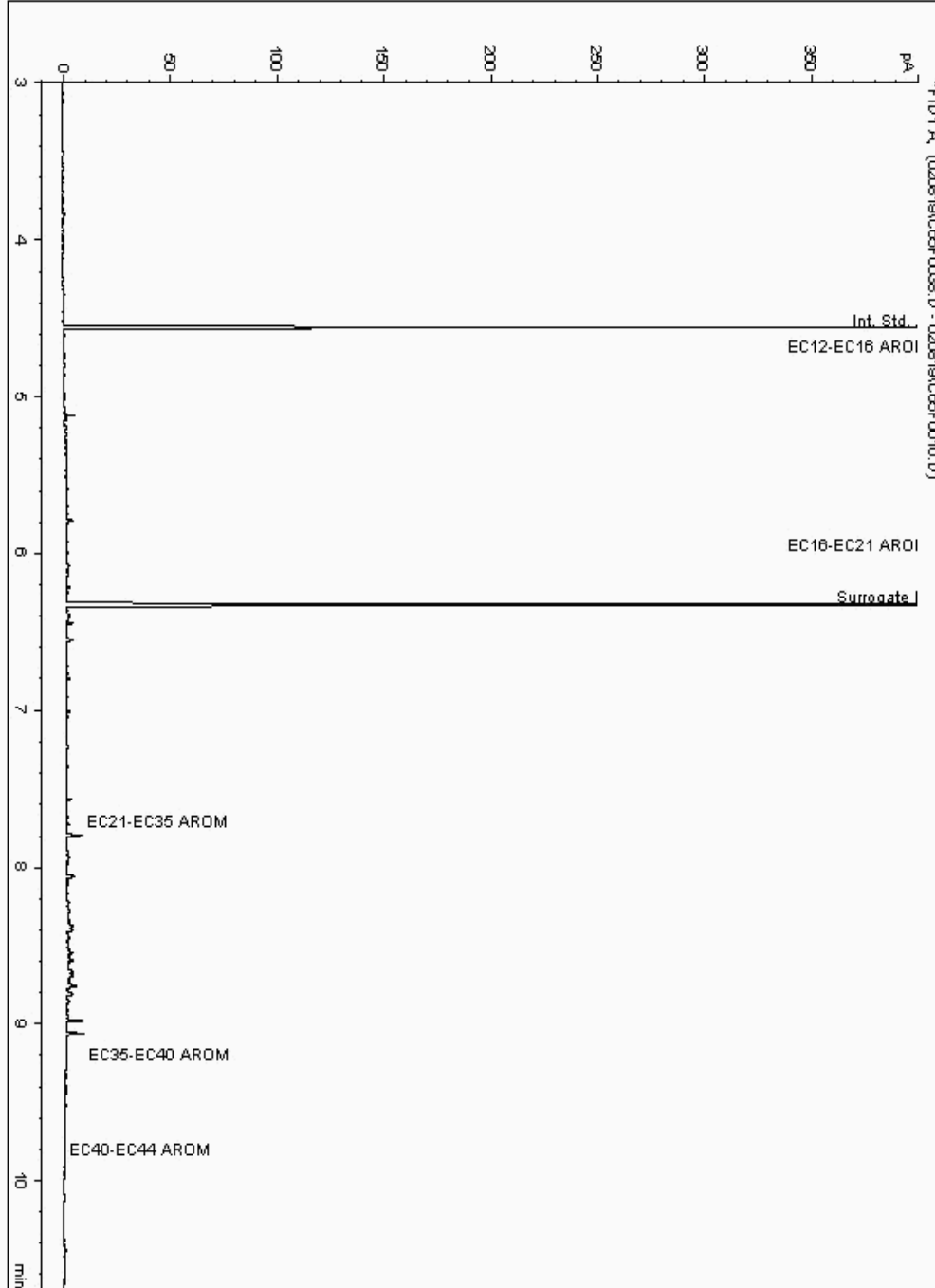
Analysis: EPH CWG (Aromatic) GC (S)
19262765

Sample No :
Sample ID : BH239

19,262,765Depth :0.00 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091268-
Date Acquired : 08/02/2019 18:11:48 PM
Units : ppb
Dilution: BH239[0.00 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

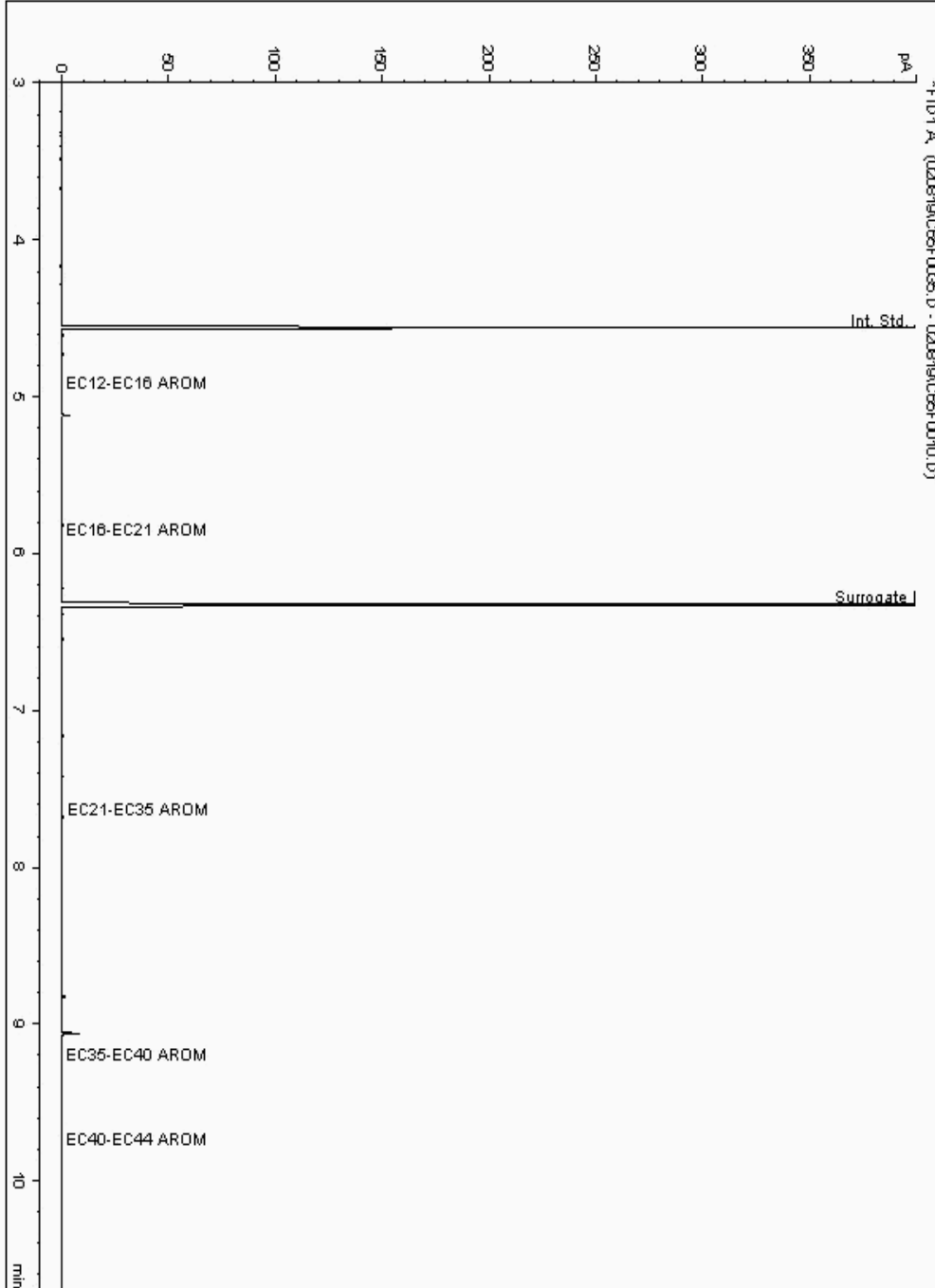
Analysis: EPH CWG (Aromatic) GC (S)
19263628

Sample No :
Sample ID : BH240

19,263,628 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092488-
Date Acquired : 08/02/2019 17:10:16 PM
Units : ppb
Dilution: BH240[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

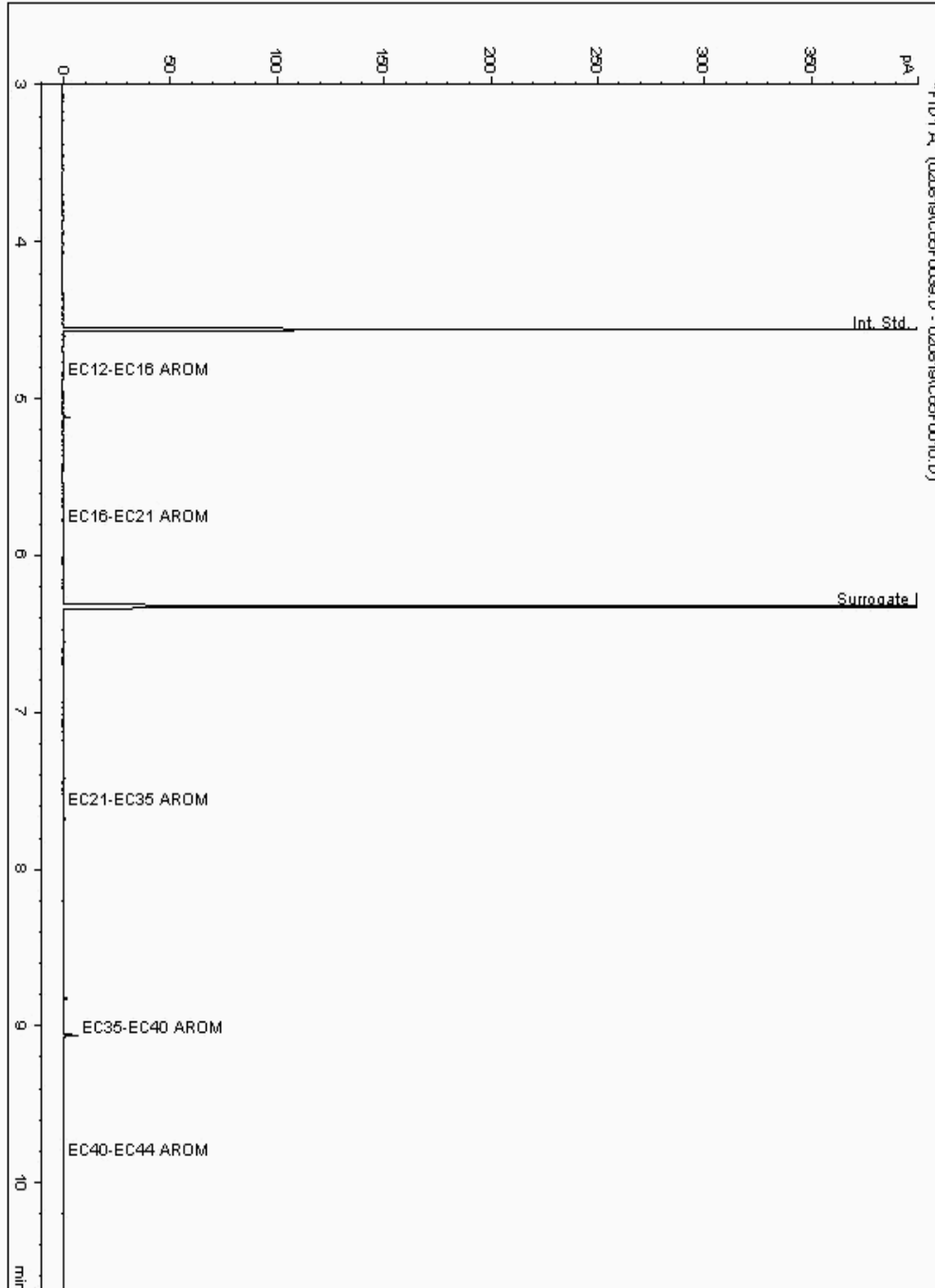
Analysis: EPH CWG (Aromatic) GC (S)
19263779

Sample No :
Sample ID : BH240

19,263,779 Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092549-
Date Acquired : 08/02/2019 18:32:13 PM
Units : ppb
Dilution: BH240[11.00 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

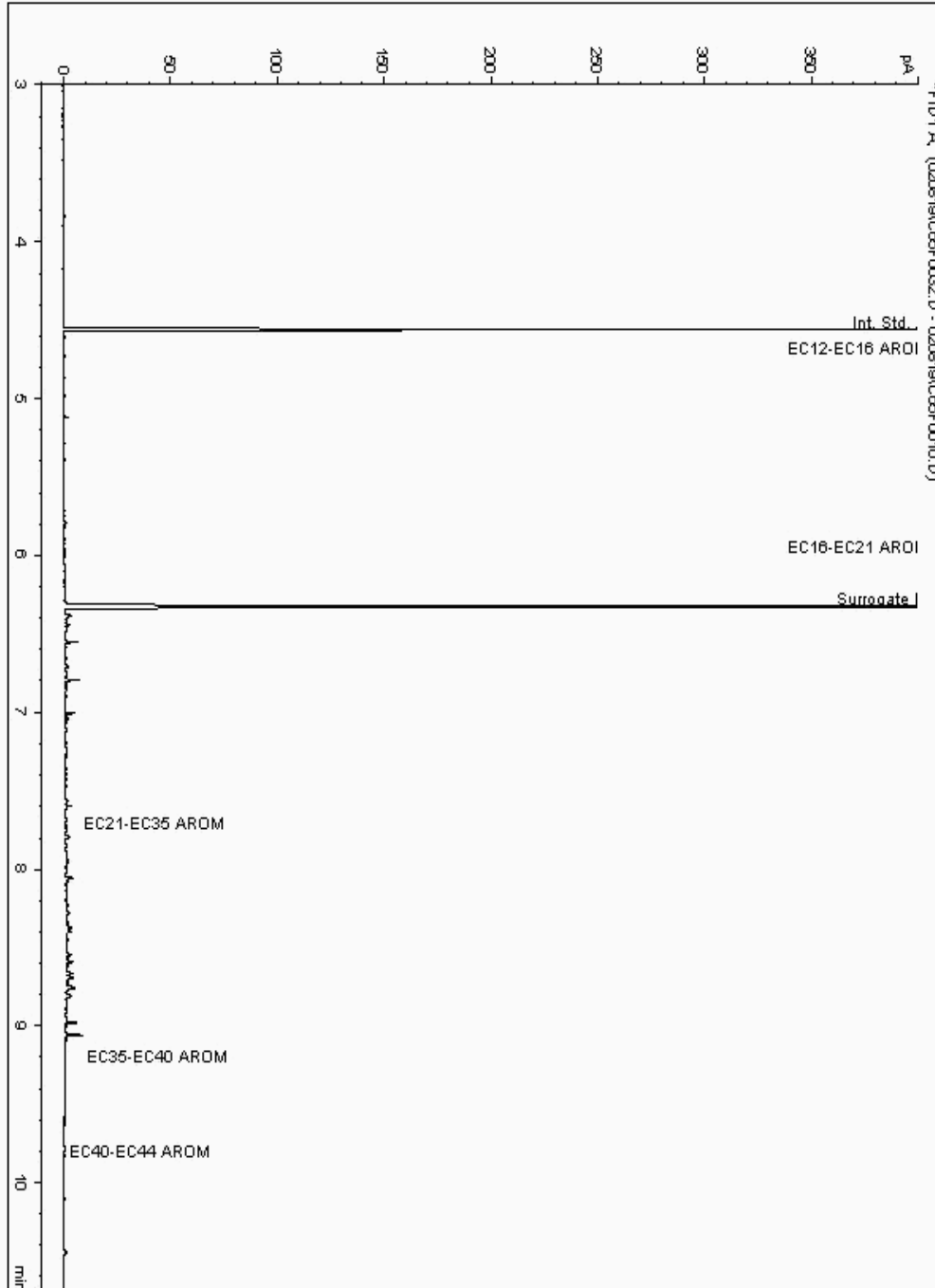
Analysis: EPH CWG (Aromatic) GC (S)
19263822

Sample No :
Sample ID : BH239

19,263,822Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091569-
Date Acquired : 08/02/2019 16:16:57 PM
Units : ppb
Dilution: BH239[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

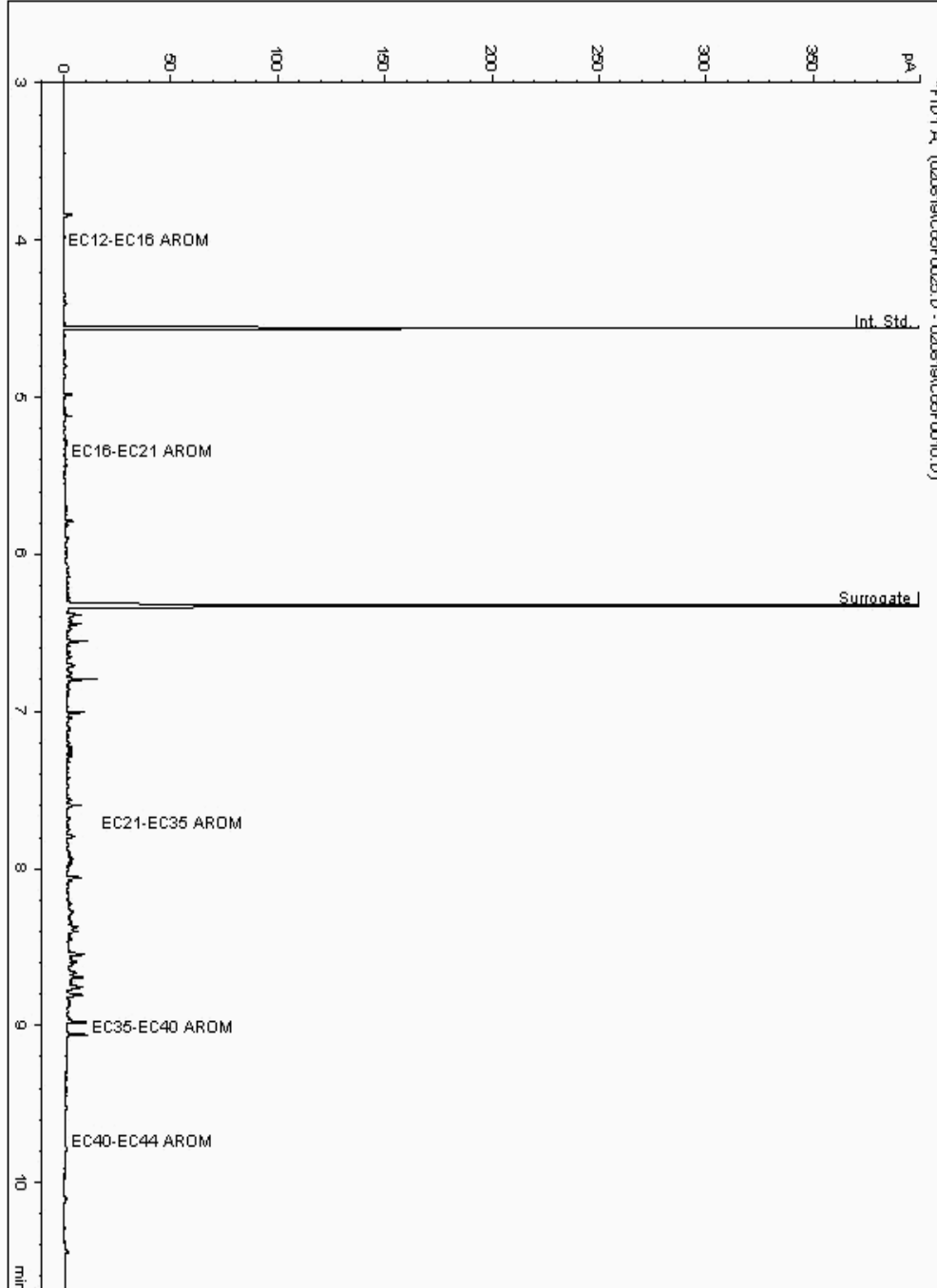
Analysis: EPH CWG (Aromatic) GC (S)
19263843

Sample No :
Sample ID : BH239

19,263,843 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091435-
Date Acquired : 08/02/2019 14:09:44 PM
Units : ppb
Dilution: BH239[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

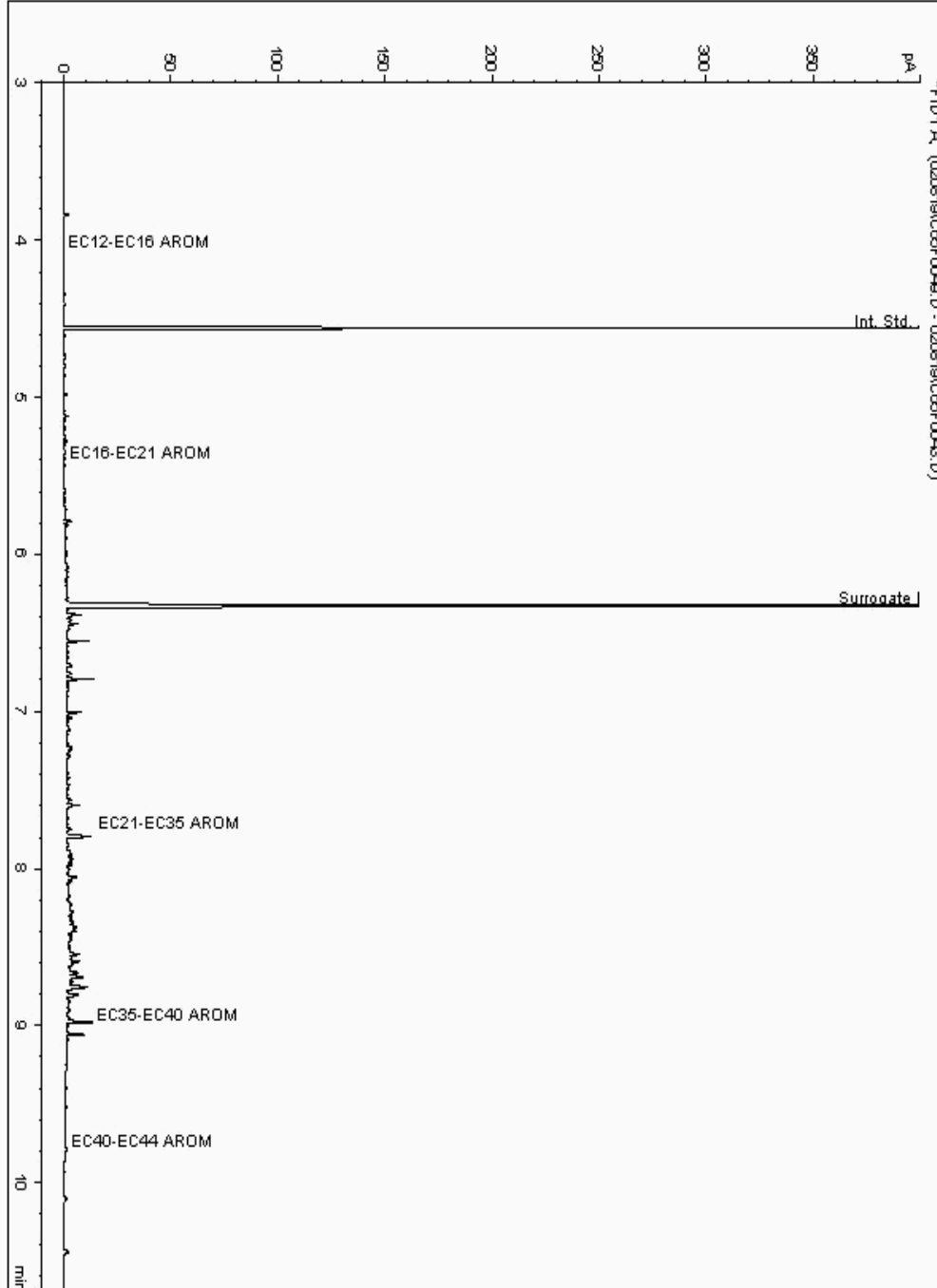
Analysis: EPH CWG (Aromatic) GC (S)
19263887

Sample No :
Sample ID : BH239

19,263,887Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091494-
Date Acquired : 08/02/2019 21:37:26 PM
Units : ppb
Dilution: BH239[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

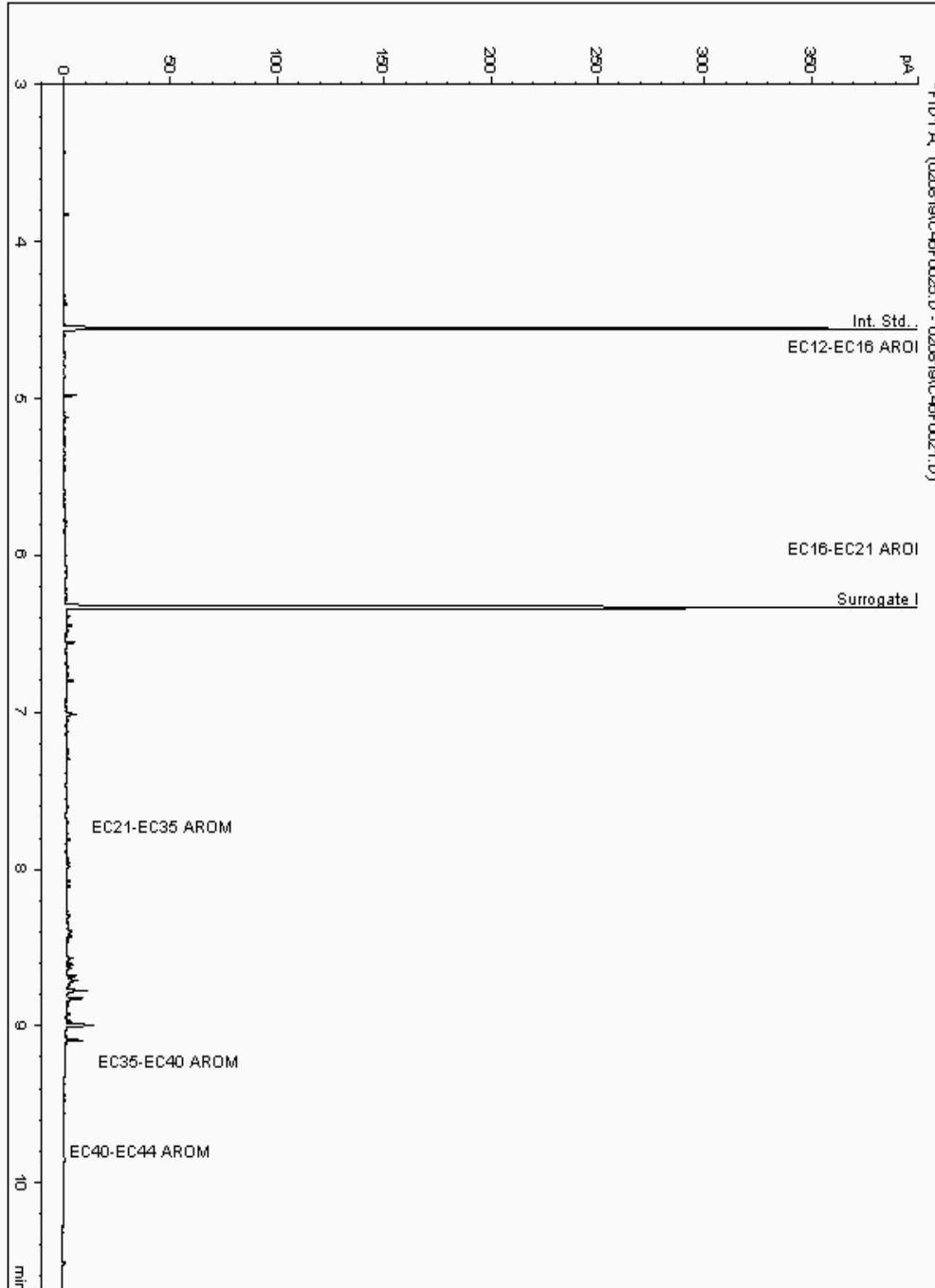
Analysis: EPH CWG (Aromatic) GC (S)
19263918

Sample No :
Sample ID : BH239

19,263,918 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091348-
Date Acquired : 08/02/2019 15:58:49 PM
Units : ppb
Dilution: BH239[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

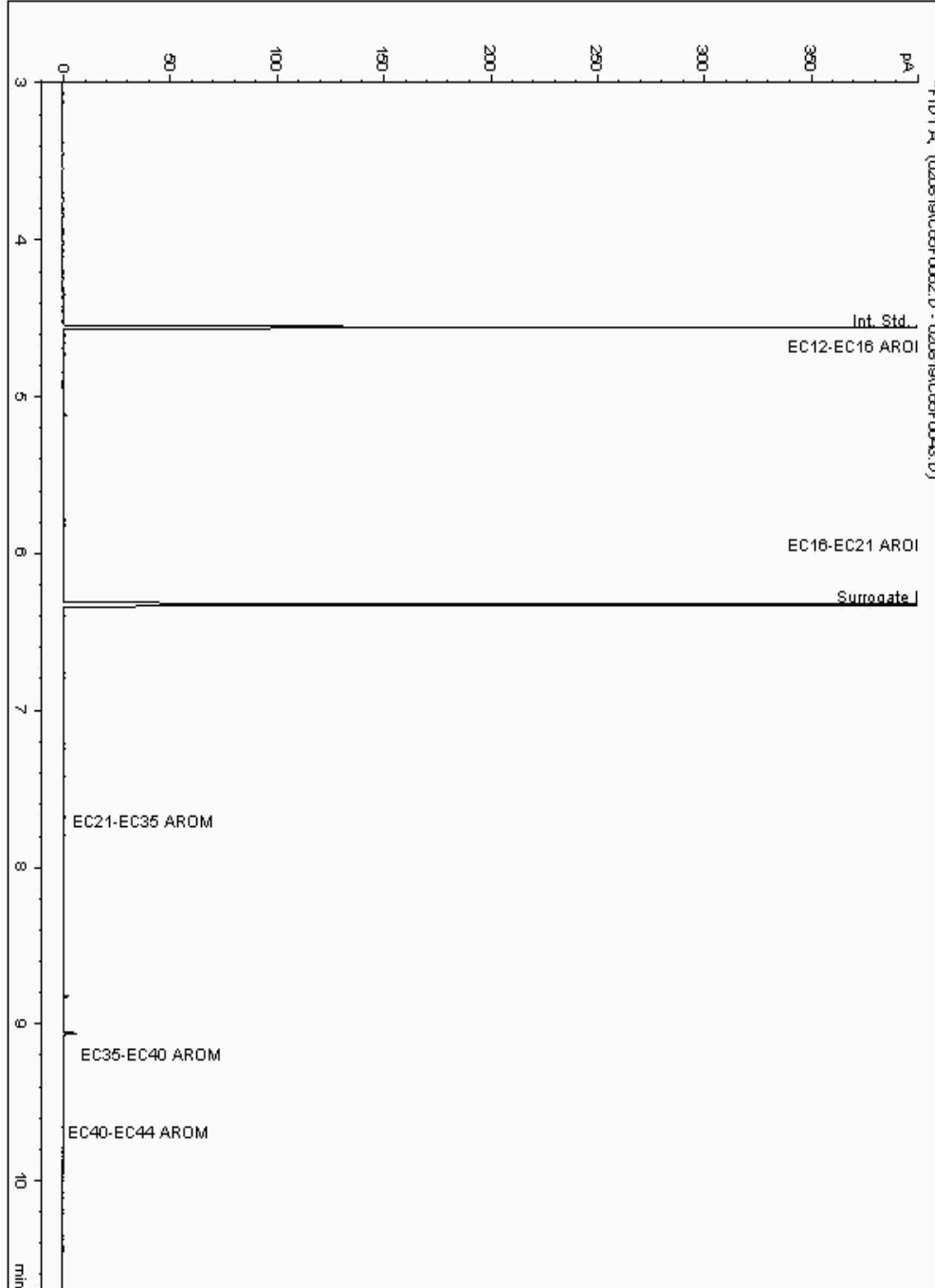
Analysis: EPH CWG (Aromatic) GC (S)
19263953

Sample No :
Sample ID : BH239

19,263,953 Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091809-
Date Acquired : 09/02/2019 01:47:05 PM
Units : ppb
Dilution: BH239[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

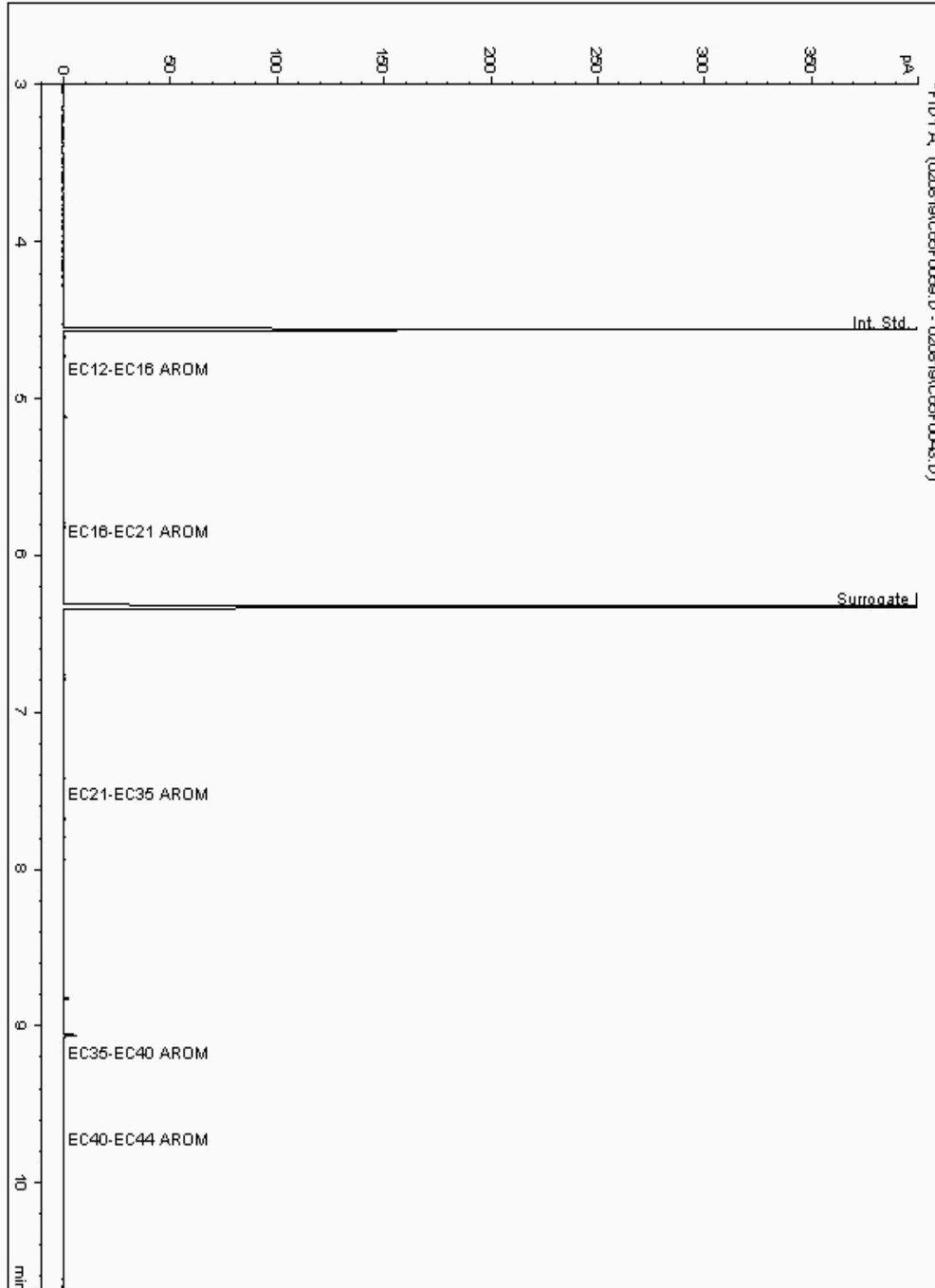
Analysis: EPH CWG (Aromatic) GC (S)
19264059

Sample No :
Sample ID : BH240

19,264,059 Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092718-
Date Acquired : 09/02/2019 00:45:45 PM
Units : ppb
Dilution: BH240[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

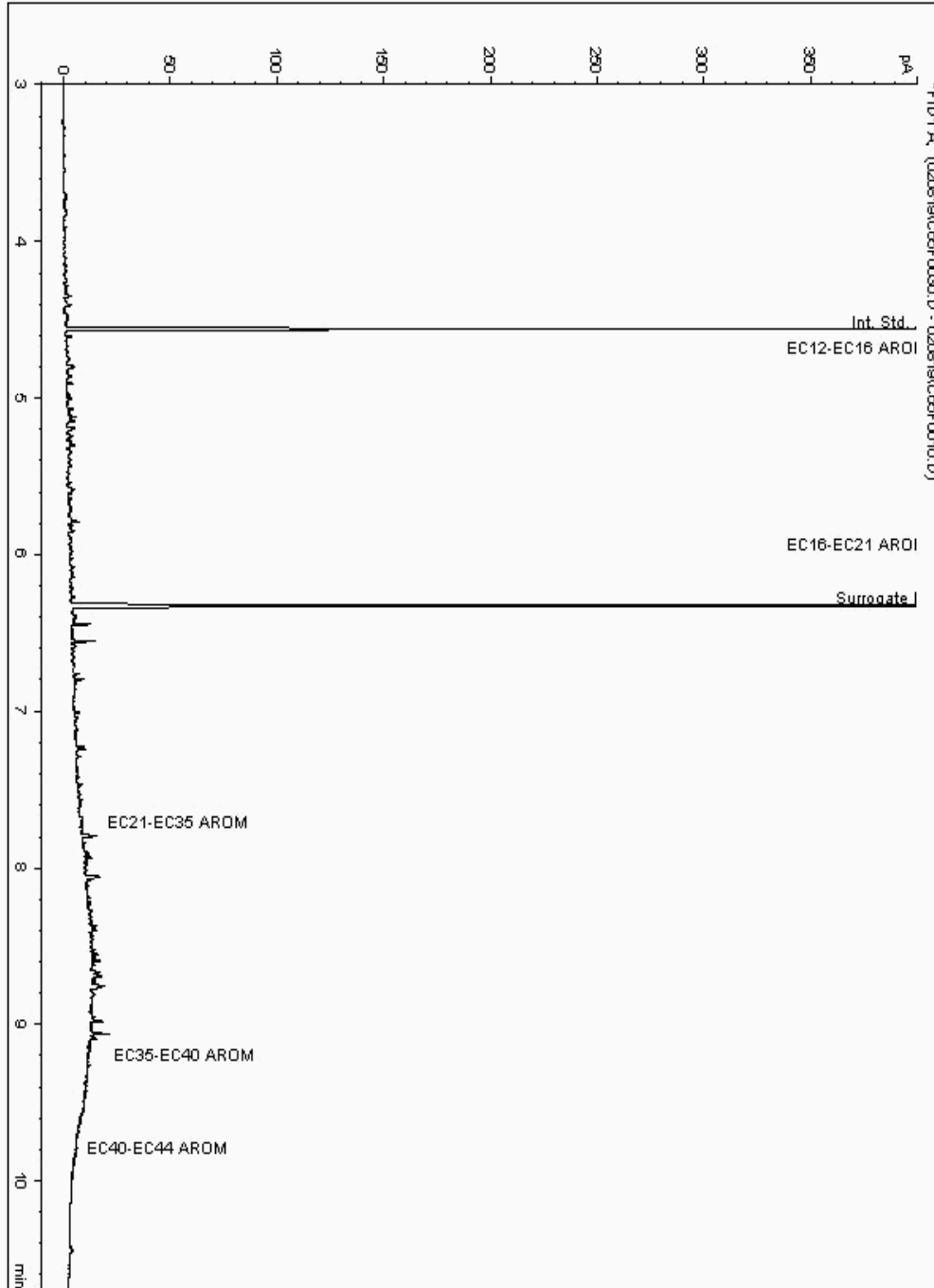
Analysis: EPH CWG (Aromatic) GC (S)
19264321

Sample No :
Sample ID : BH240

19,264,321 Depth : 0.00 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092000-
Date Acquired : 08/02/2019 15:35:44 PM
Units : ppb
Dilution: BH240[0.00 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

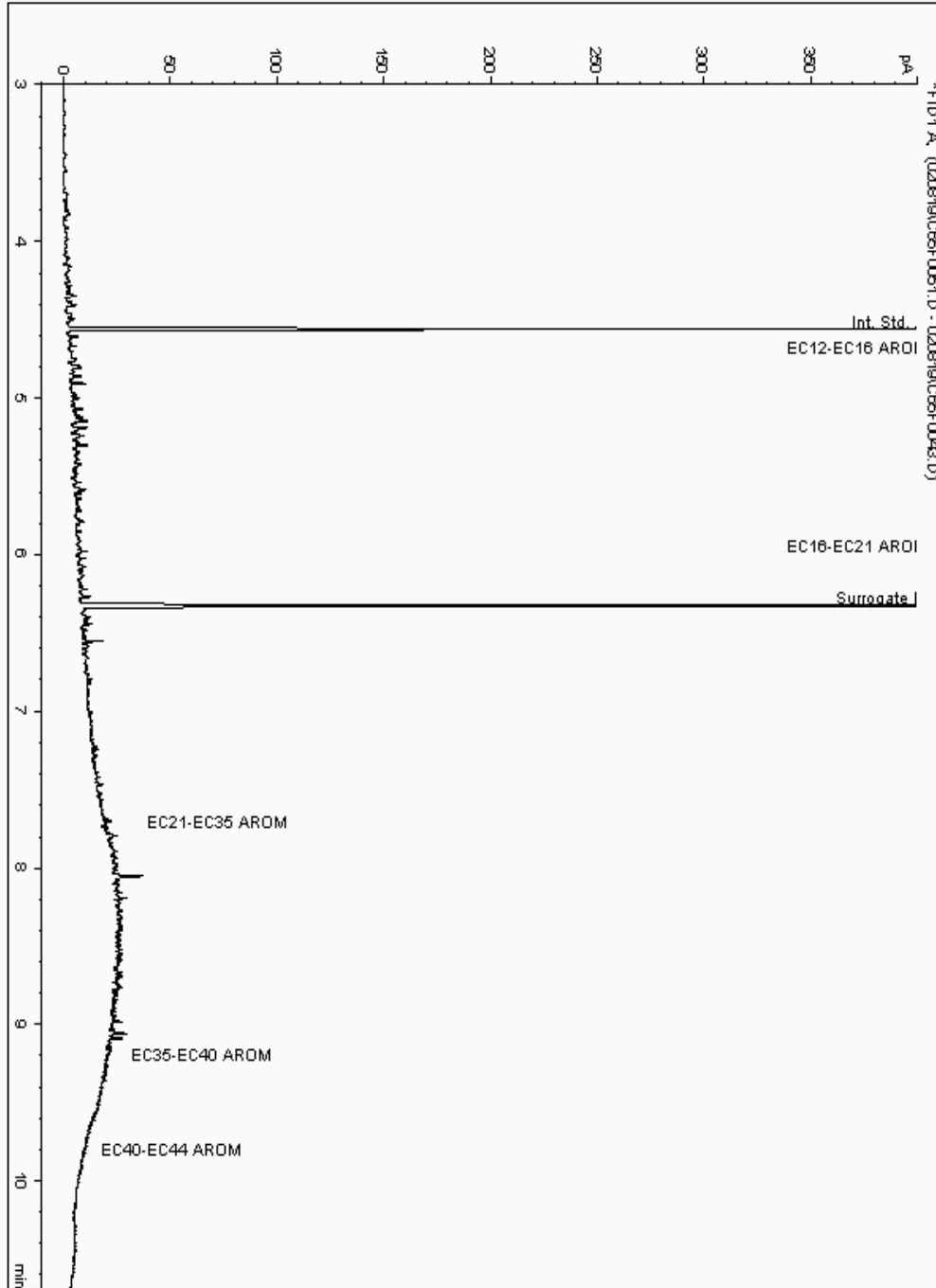
Analysis: EPH CWG (Aromatic) GC (S)
19264368

Sample No :
Sample ID : BH240

19,264,368 Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091921-
Date Acquired : 08/02/2019 22:10:11 PM
Units : ppb
Dilution: BH240[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

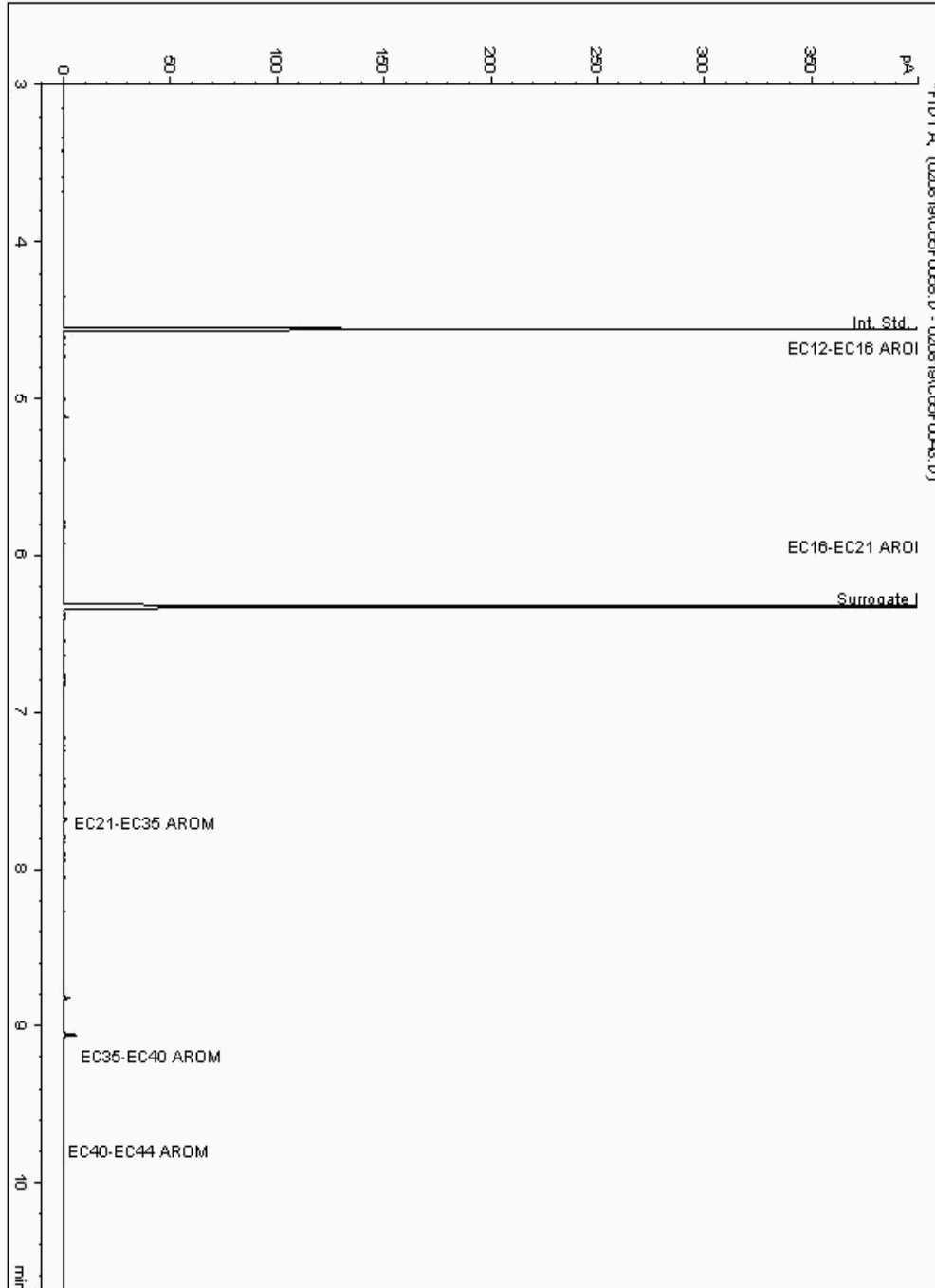
Analysis: EPH CWG (Aromatic) GC (S)
19264463

Sample No :
Sample ID : BH240

19,264,463 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092618-
Date Acquired : 09/02/2019 00:25:15 PM
Units : ppb
Dilution: BH240[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

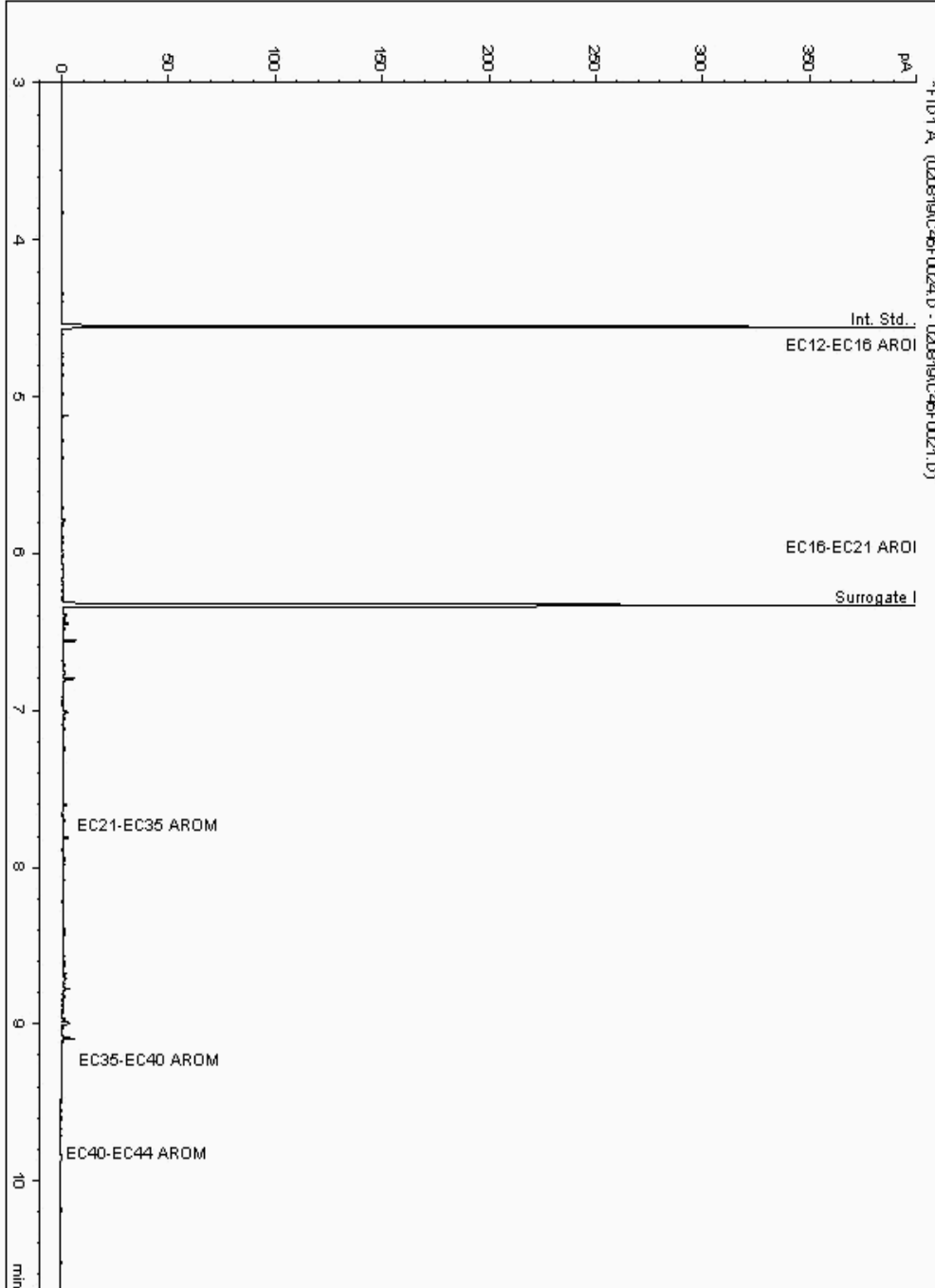
Analysis: EPH CWG (Aromatic) GC (S)
19264473

Sample No :
Sample ID : BH239

19,264,473 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091622-
Date Acquired : 08/02/2019 15:38:17 PM
Units : ppb
Dilution: BH239[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

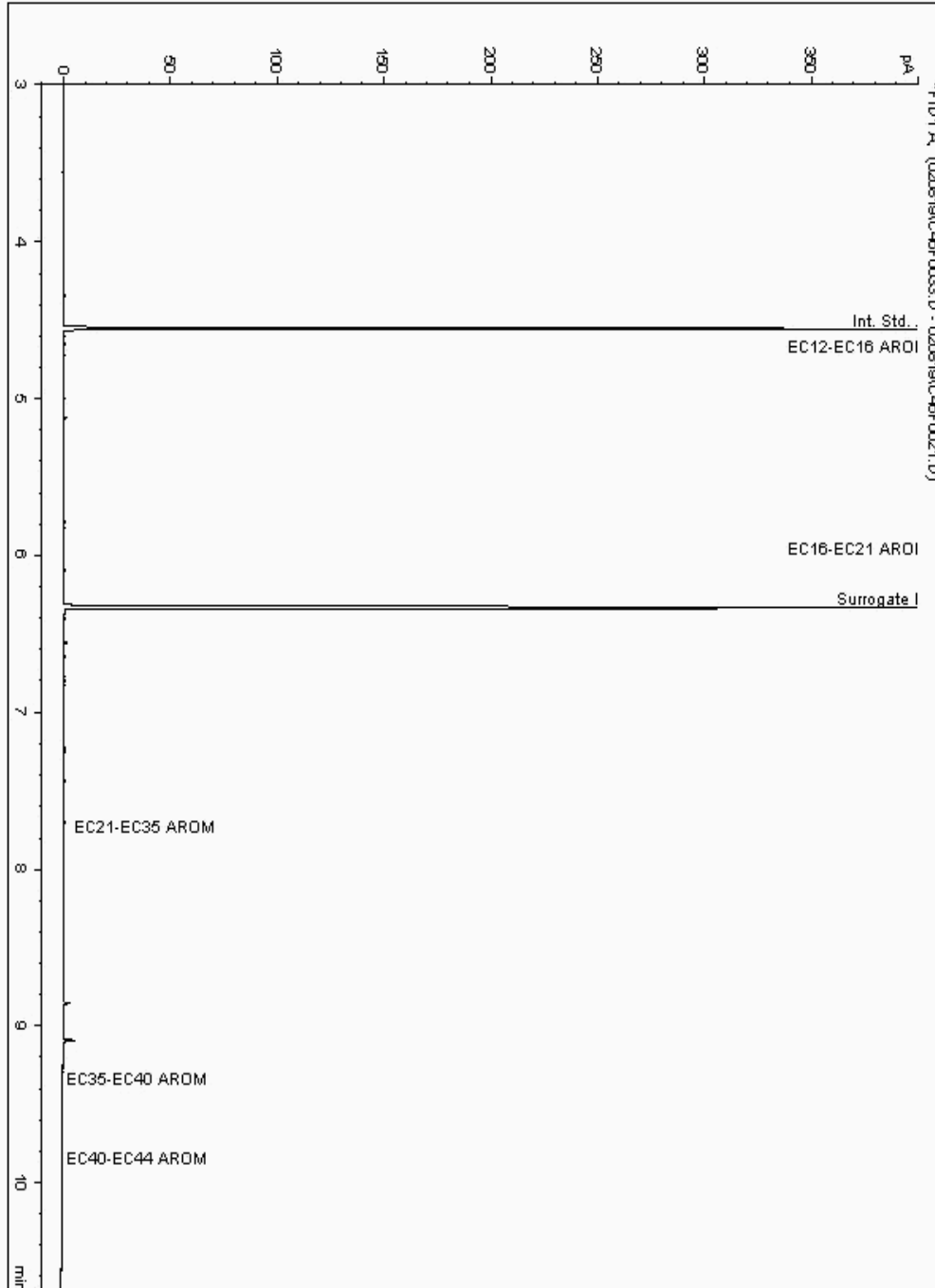
Analysis: EPH CWG (Aromatic) GC (S)
19264493

Sample No :
Sample ID : BH239

19,264,493 Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091863-
Date Acquired : 08/02/2019 18:17:22 PM
Units : ppb
Dilution: BH239[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

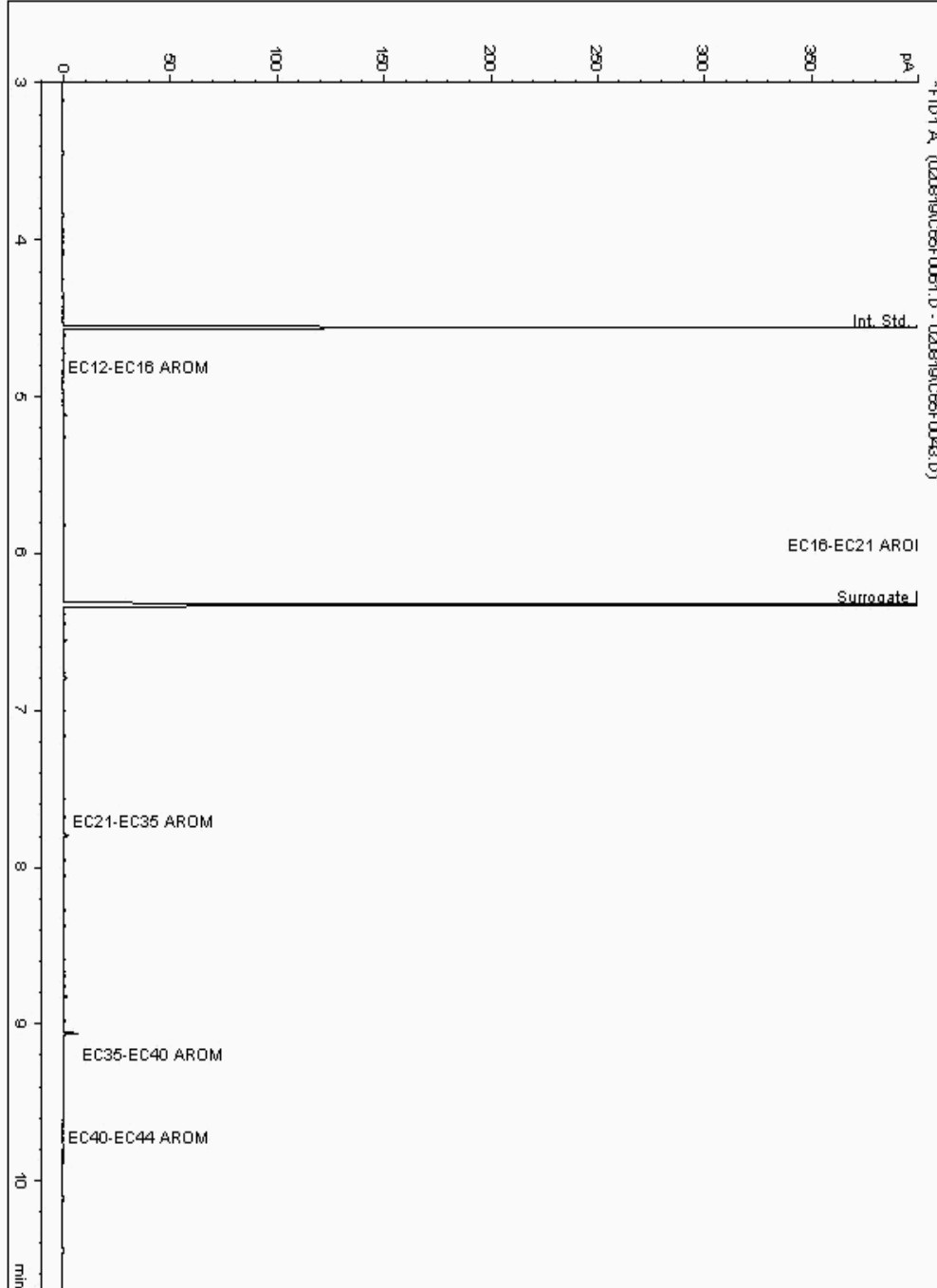
Analysis: EPH CWG (Aromatic) GC (S)
19264510

Sample No :
Sample ID : BH239

19,264,510Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091648-
Date Acquired : 09/02/2019 01:26:41 PM
Units : ppb
Dilution: BH239[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

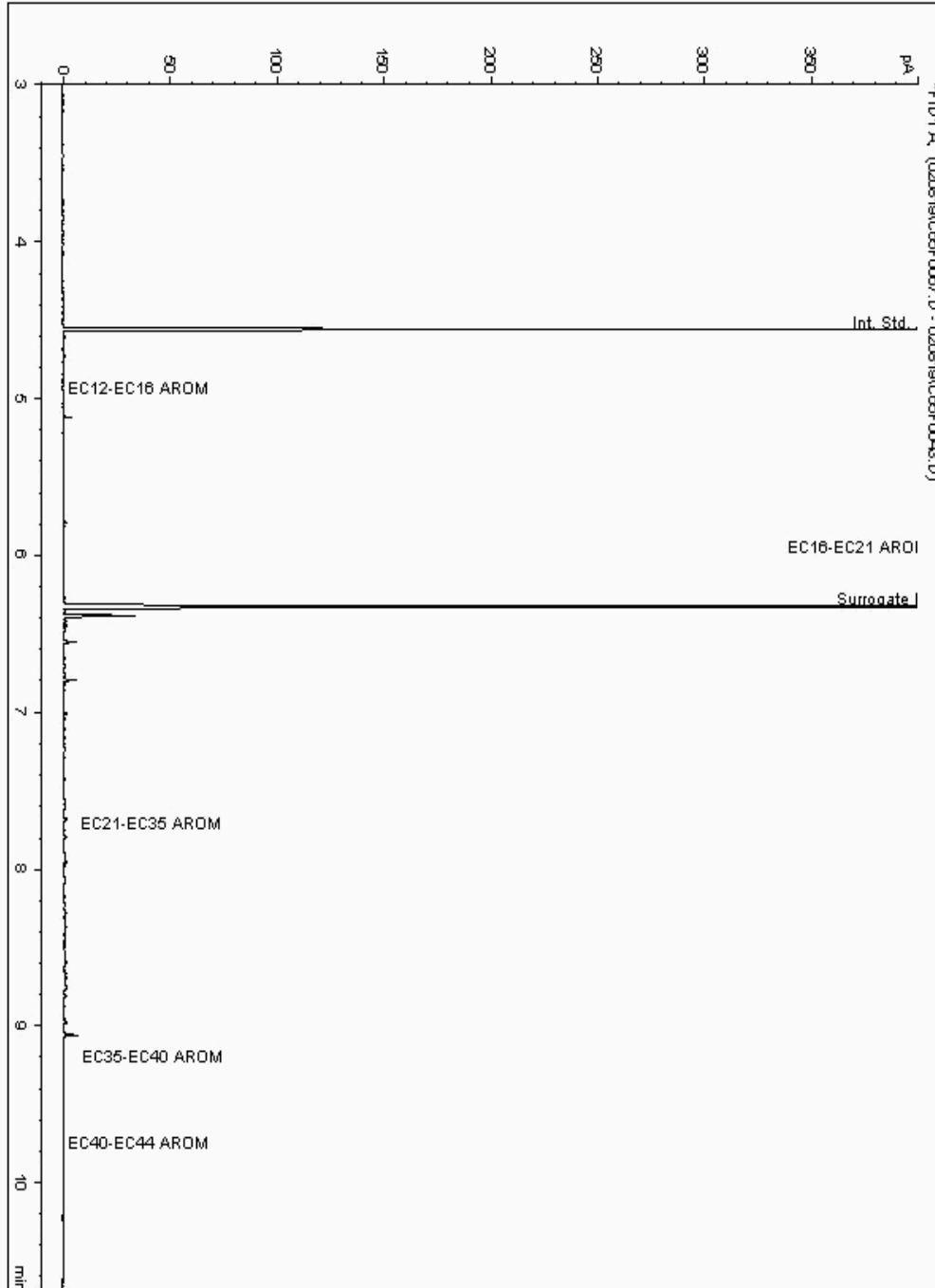
Analysis: EPH CWG (Aromatic) GC (S)
19264903

Sample No :
Sample ID : BH240

19,264,903 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092371-
Date Acquired : 09/02/2019 03:21:00 PM
Units : ppb
Dilution: BH240[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

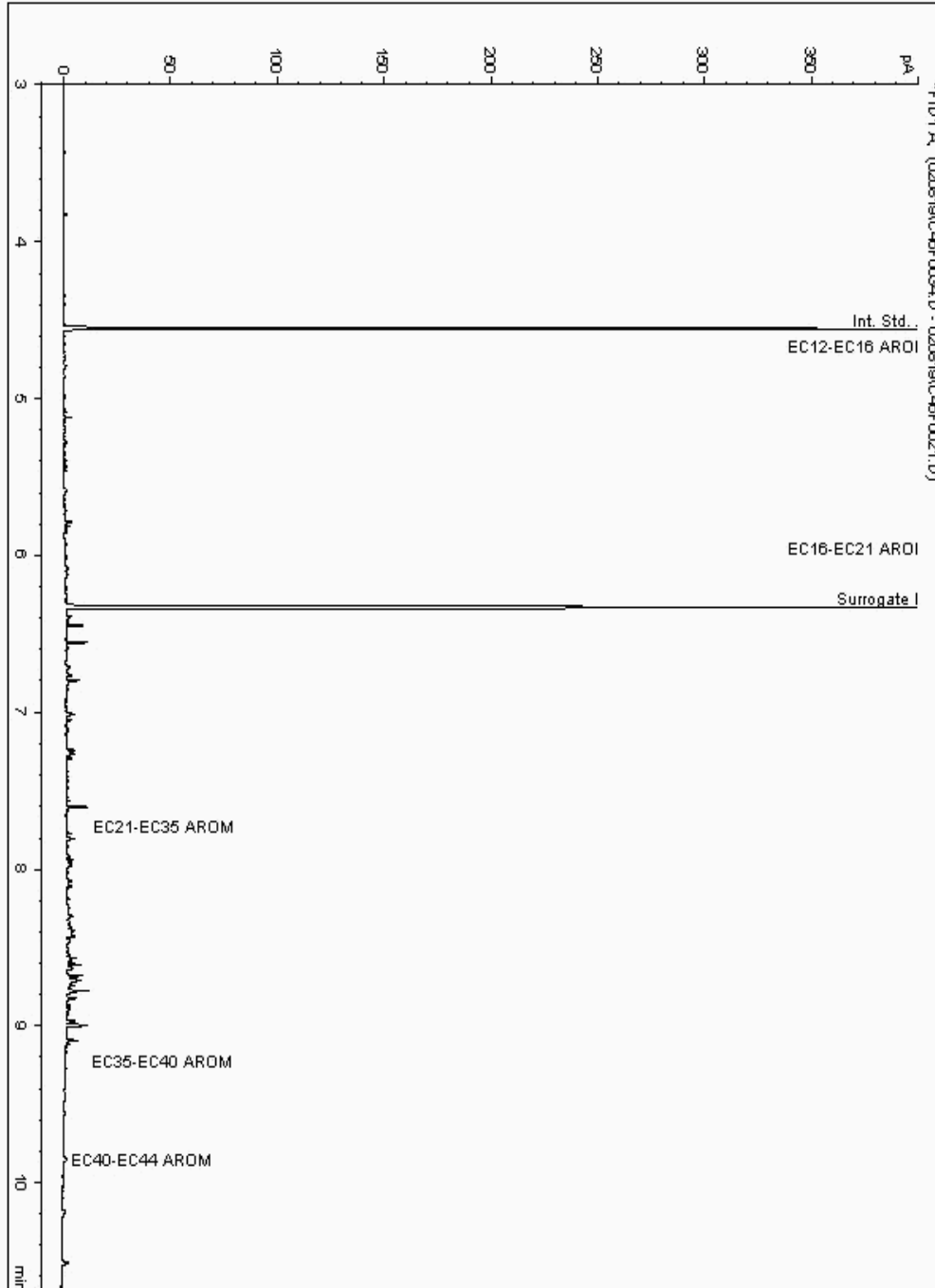
Analysis: EPH CWG (Aromatic) GC (S)
19264929

Sample No :
Sample ID : BH240

19,264,929 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092086-
Date Acquired : 08/02/2019 18:37:40 PM
Units : ppb
Dilution: BH240[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

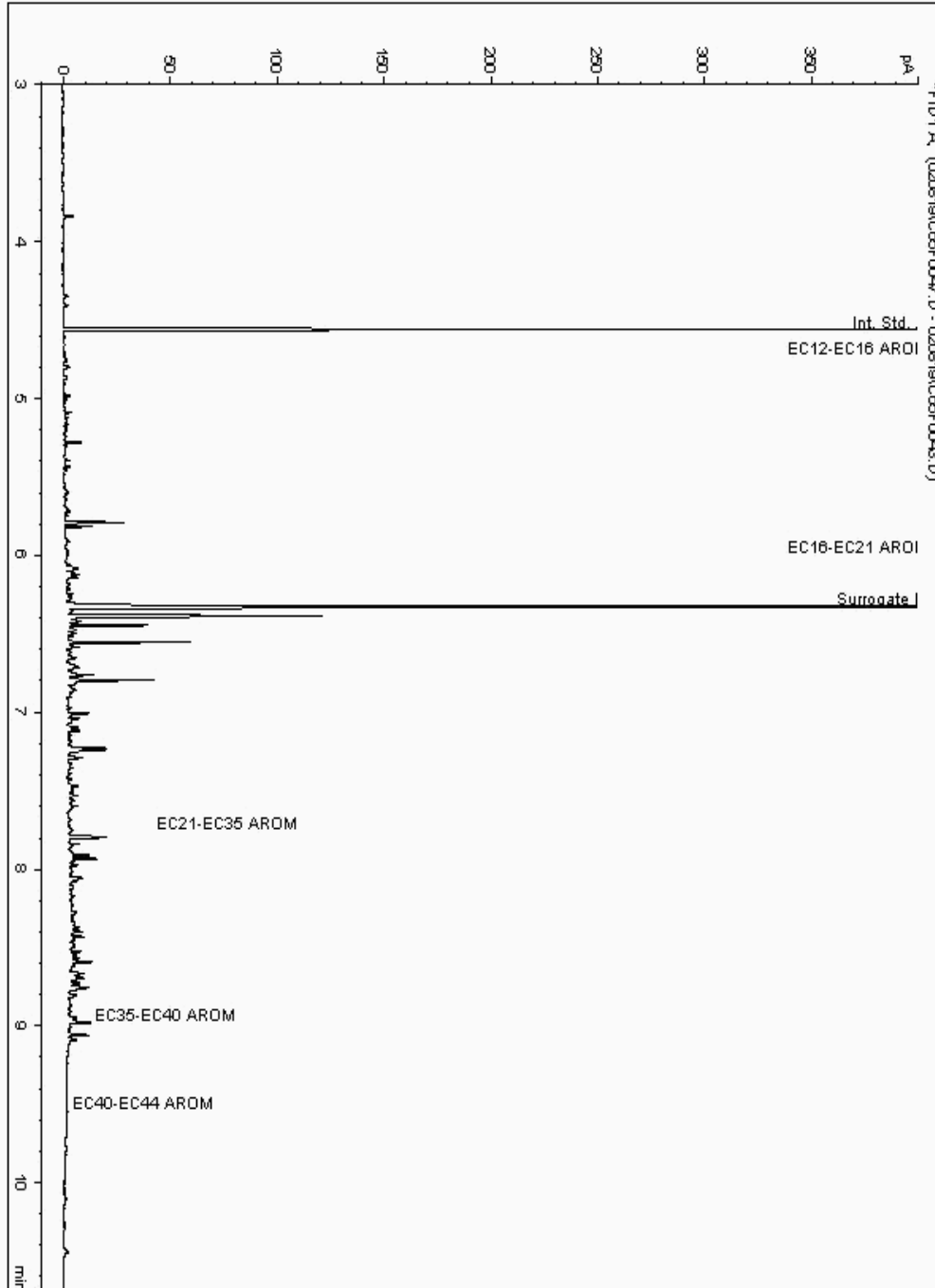
Analysis: EPH CWG (Aromatic) GC (S)
19264958

Sample No :
Sample ID : BH240

19,264,958 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092296-
Date Acquired : 08/02/2019 21:04:23 PM
Units : ppb
Dilution: BH240[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

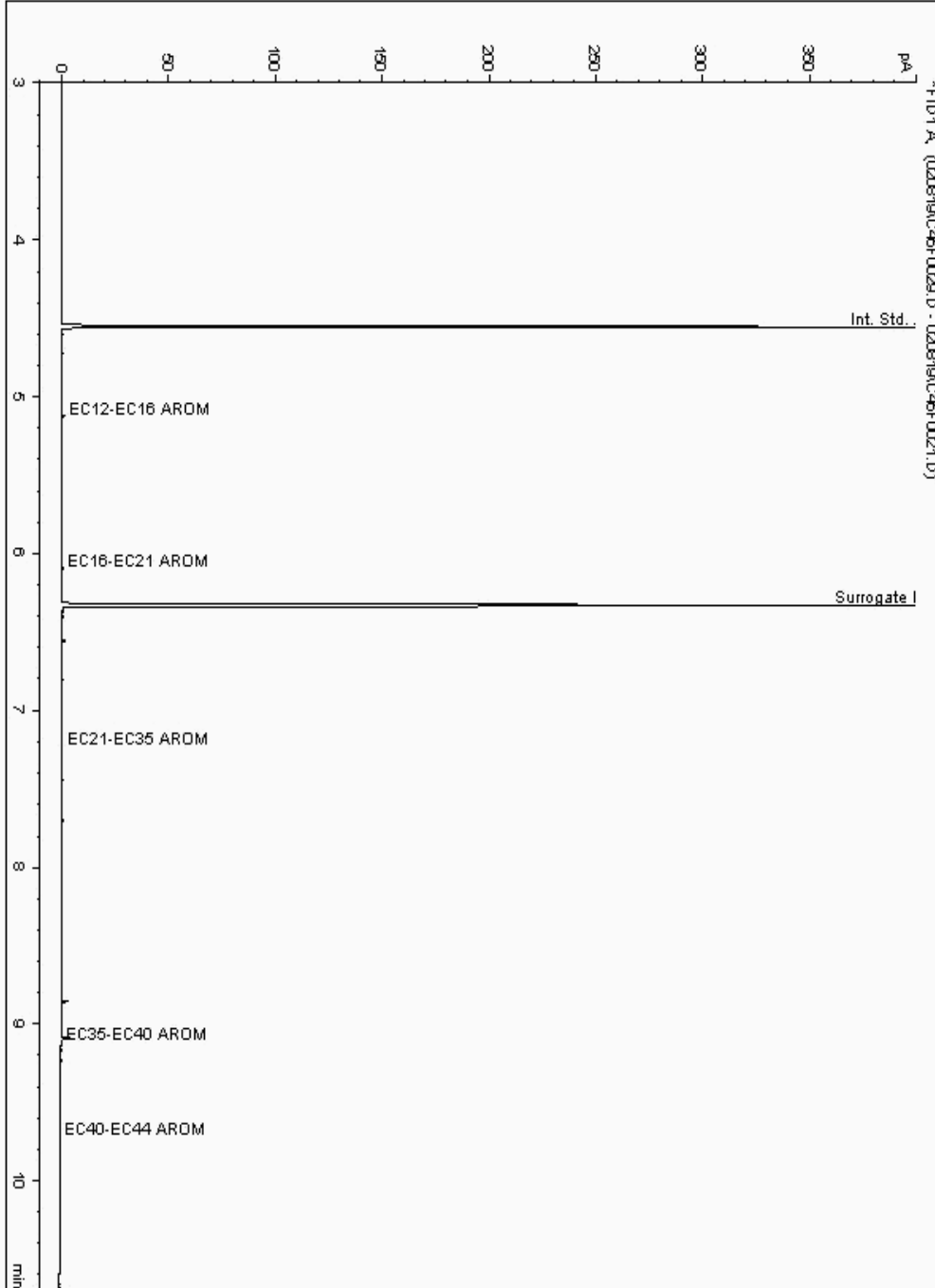
Analysis: EPH CWG (Aromatic) GC (S)
19265082

Sample No :
Sample ID : BH239

19,265,082Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091758-
Date Acquired : 08/02/2019 17:04:01 PM
Units : ppb
Dilution: BH239[11.00 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

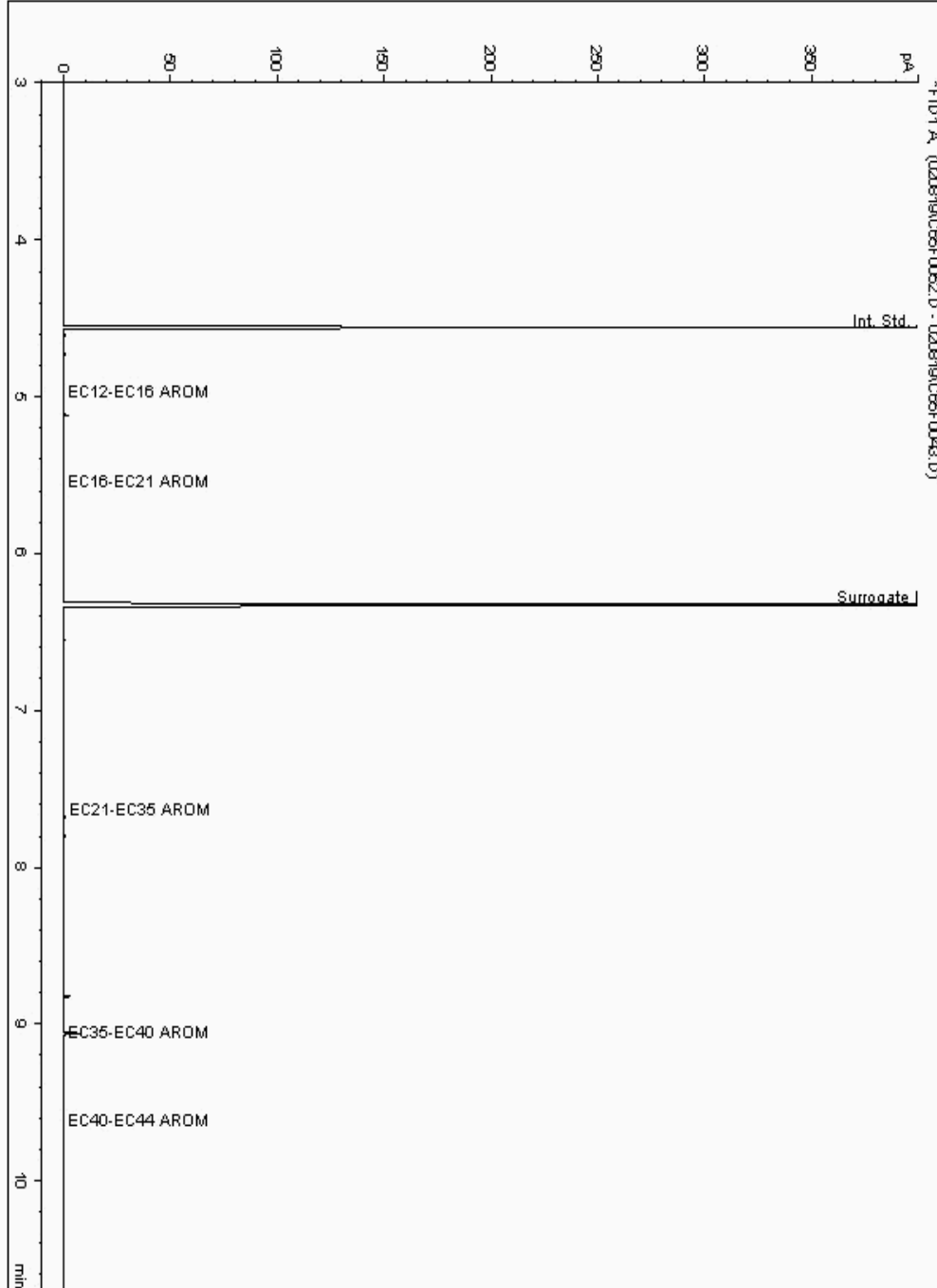
Analysis: EPH CWG (Aromatic) GC (S)
19265088

Sample No :
Sample ID : BH239

19,265,088Depth :8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18091703-
Date Acquired : 08/02/2019 22:30:40 PM
Units : ppb
Dilution: BH239[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

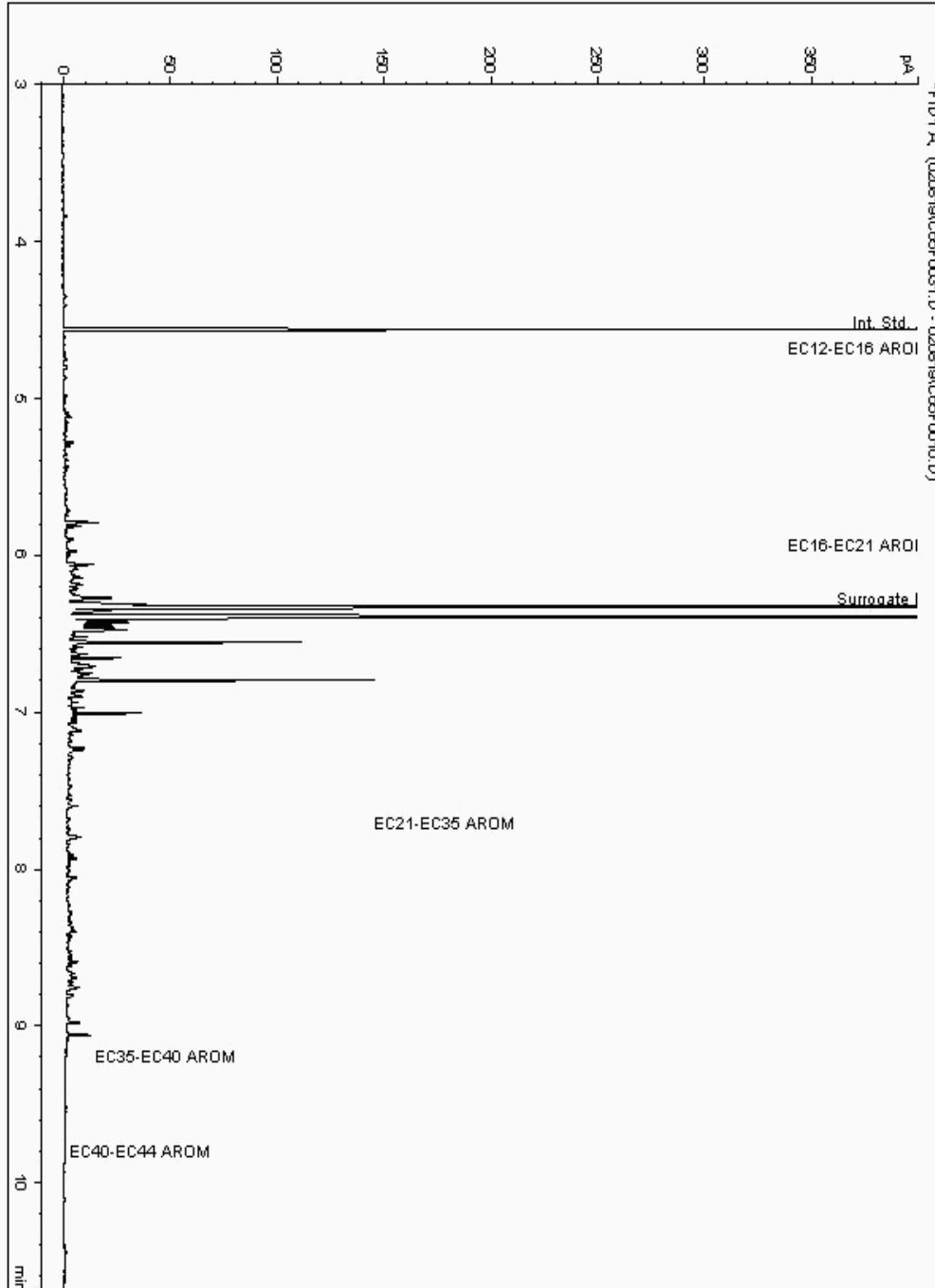
Analysis: EPH CWG (Aromatic) GC (S)
19265109

Sample No :
Sample ID : BH240

19,265,109Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18092207-
Date Acquired : 08/02/2019 15:56:22 PM
Units : ppb
Dilution: BH240[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

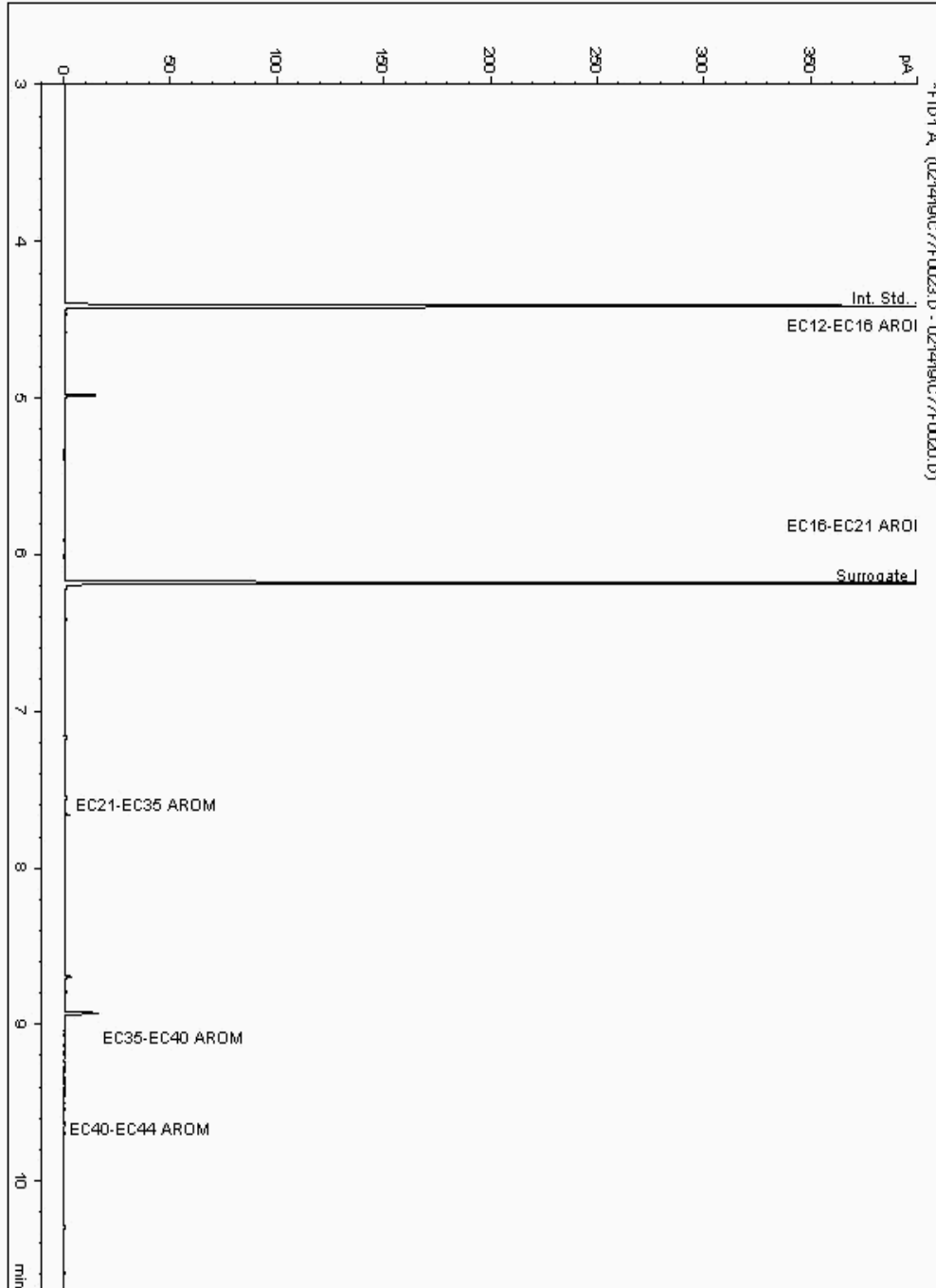
Analysis: EPH CWG (Aromatic) GC (S)
19286113

Sample No :
Sample ID : BH242

19,286,113 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110645-
Date Acquired : 14/02/2019 18:52:00 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

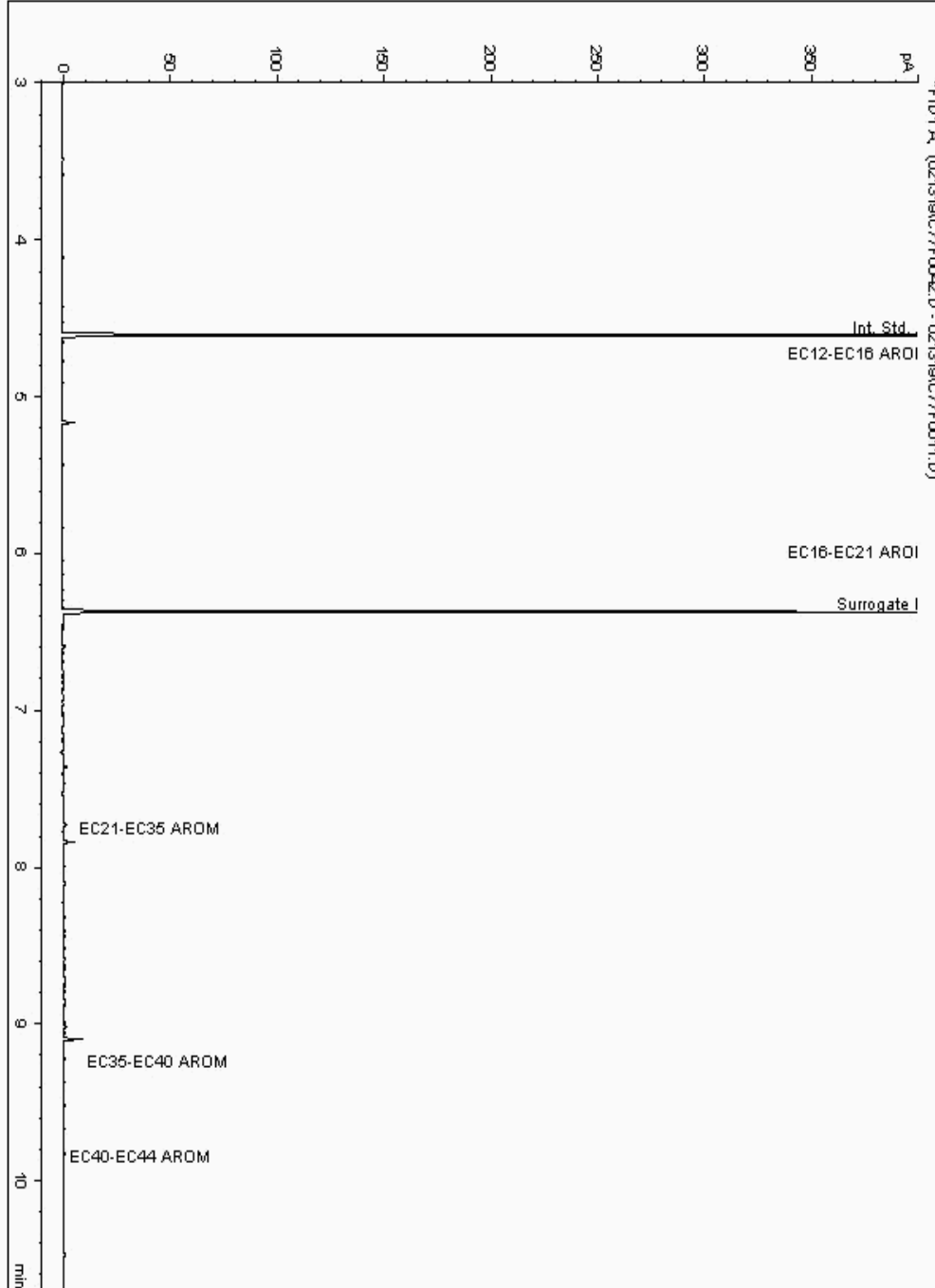
Analysis: EPH CWG (Aromatic) GC (S)
19286388

Sample No :
Sample ID : BH242

19,286,388 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110599-
Date Acquired : 2/13/2019 8:34:36 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

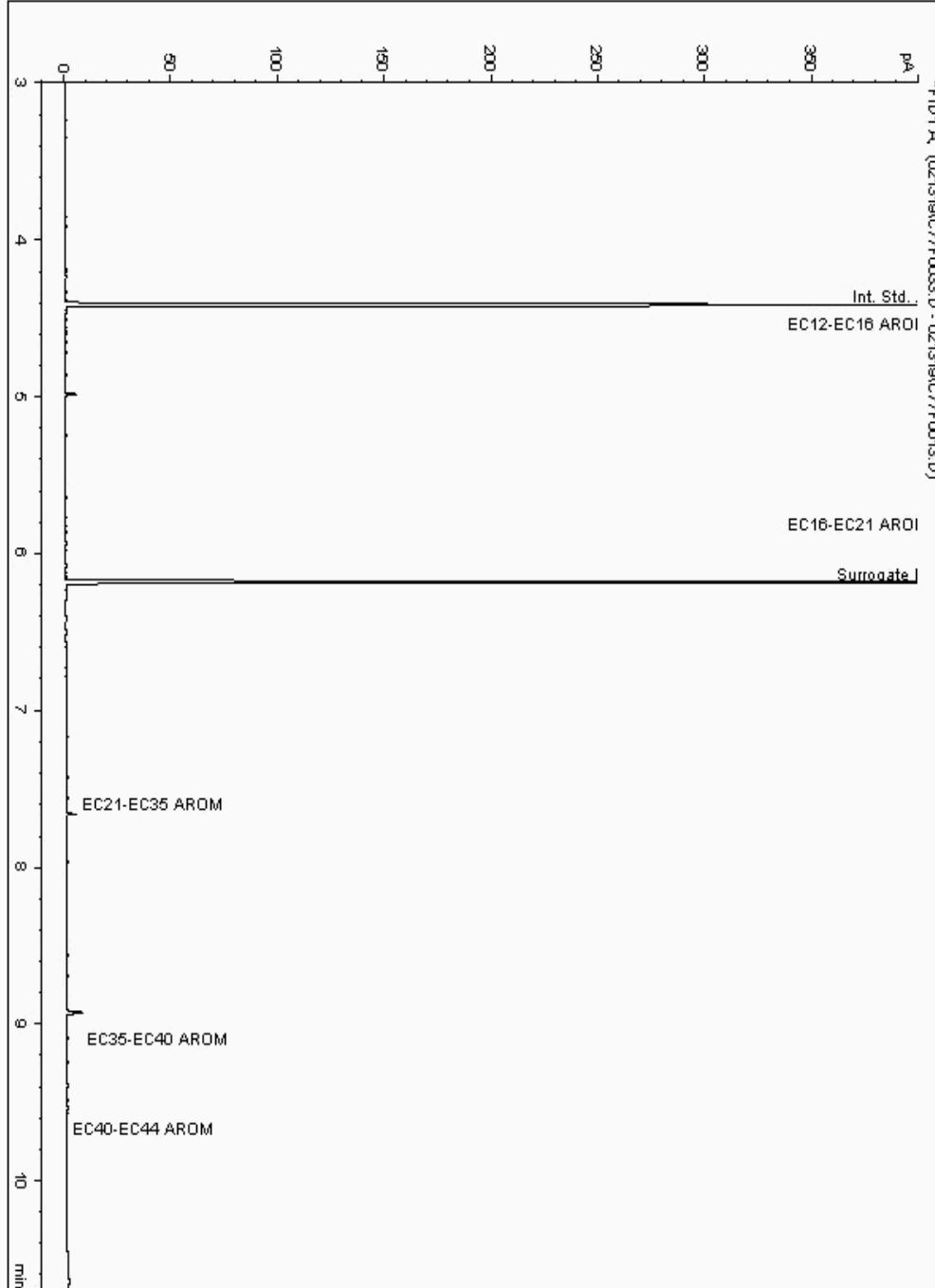
Analysis: EPH CWG (Aromatic) GC (S)
19287158

Sample No :
Sample ID : BH242

19,287,158 Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110963-
Date Acquired : 13/02/2019 19:45:37 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

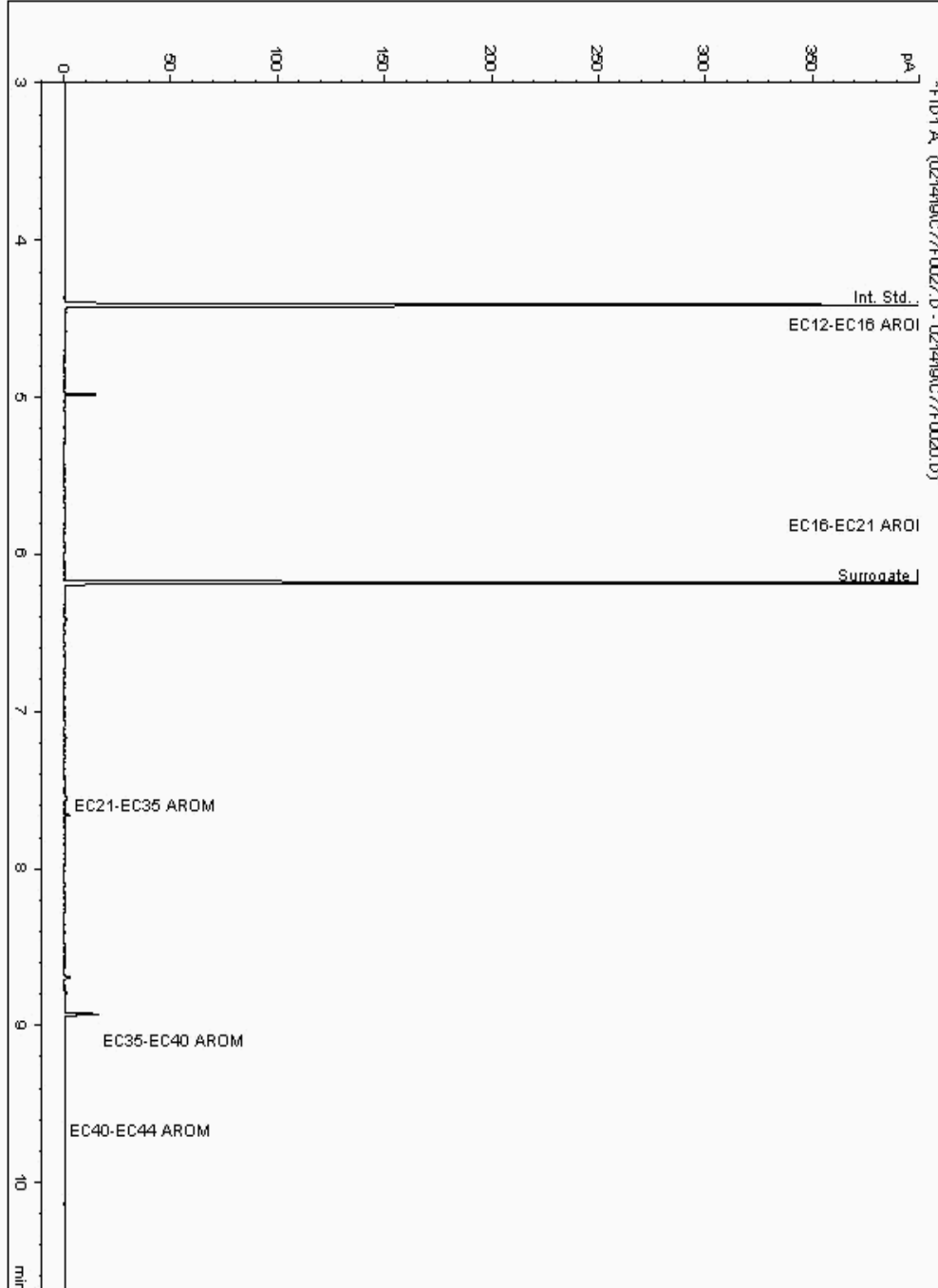
Analysis: EPH CWG (Aromatic) GC (S)
19312015

Sample No :
Sample ID : BH242

19,312,015 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110782-
Date Acquired : 14/02/2019 20:11:58 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

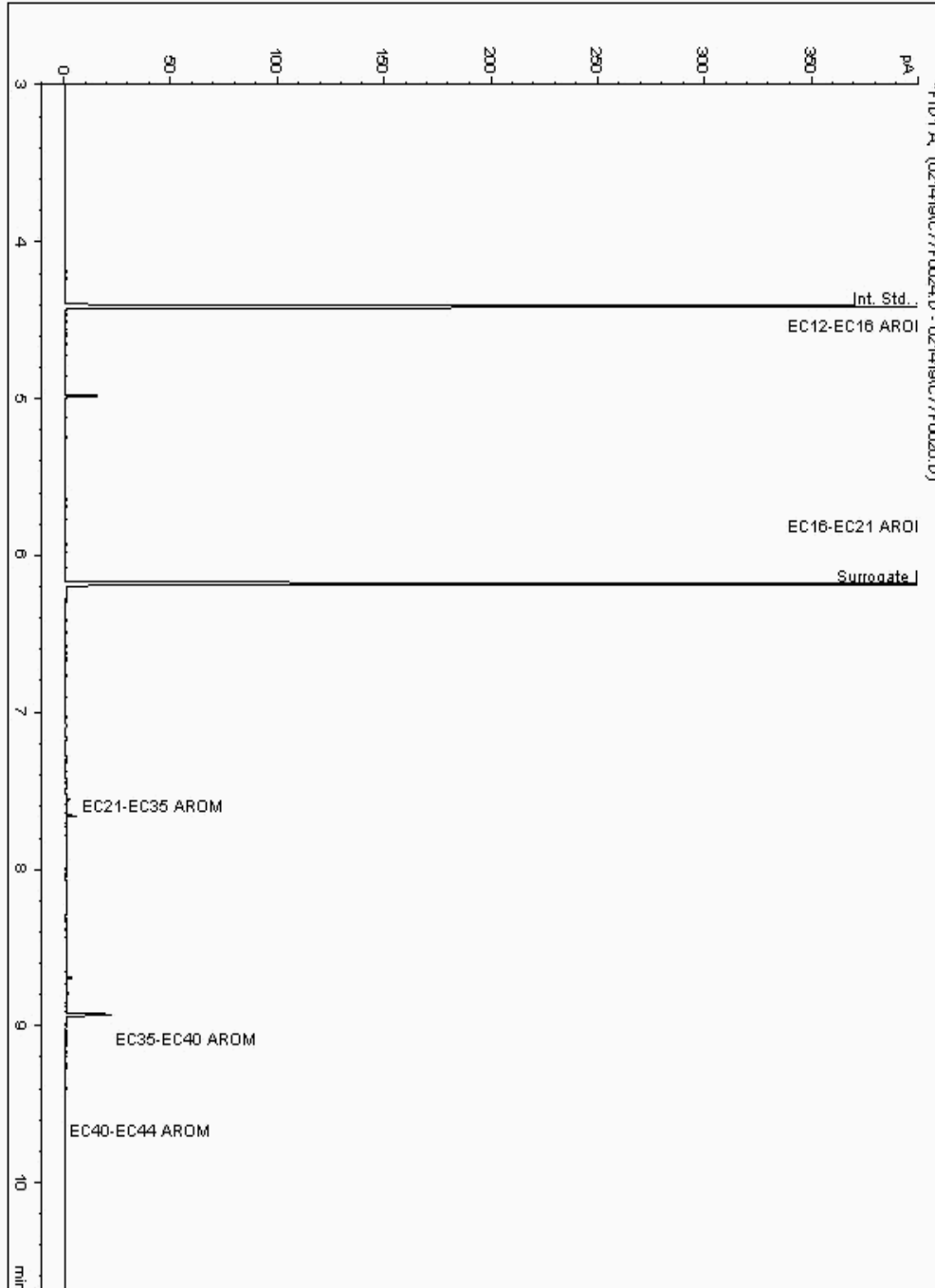
Analysis: EPH CWG (Aromatic) GC (S)
19312183

Sample No :
Sample ID : BH242

19,312,183Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110915-
Date Acquired : 14/02/2019 19:11:58 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

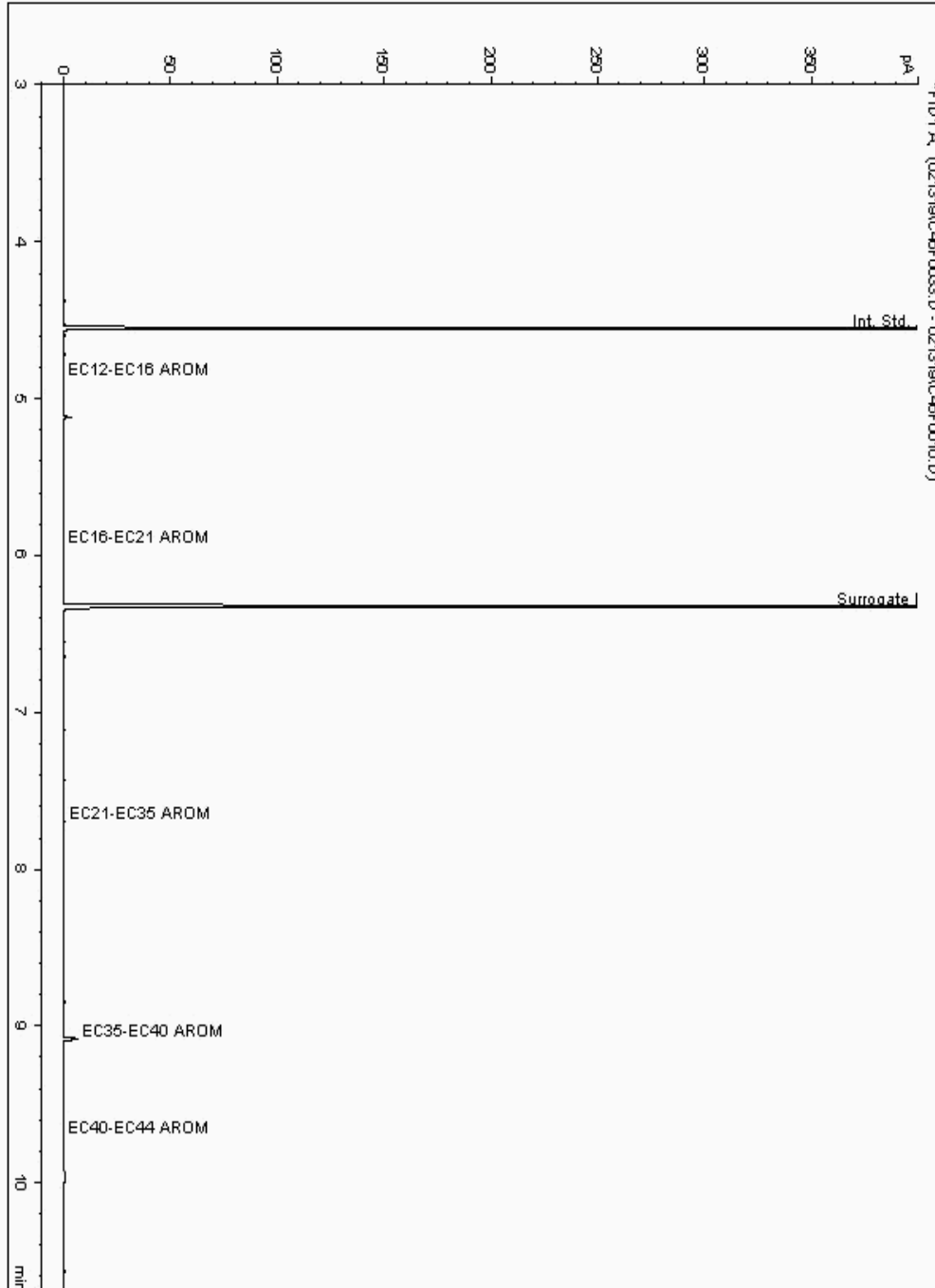
Analysis: EPH CWG (Aromatic) GC (S)
19312288

Sample No :
Sample ID : BH242

19,312,288Depth :8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110690-
Date Acquired : 13/02/2019 19:57:41 PM
Units : ppb
Dilution: BH242[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

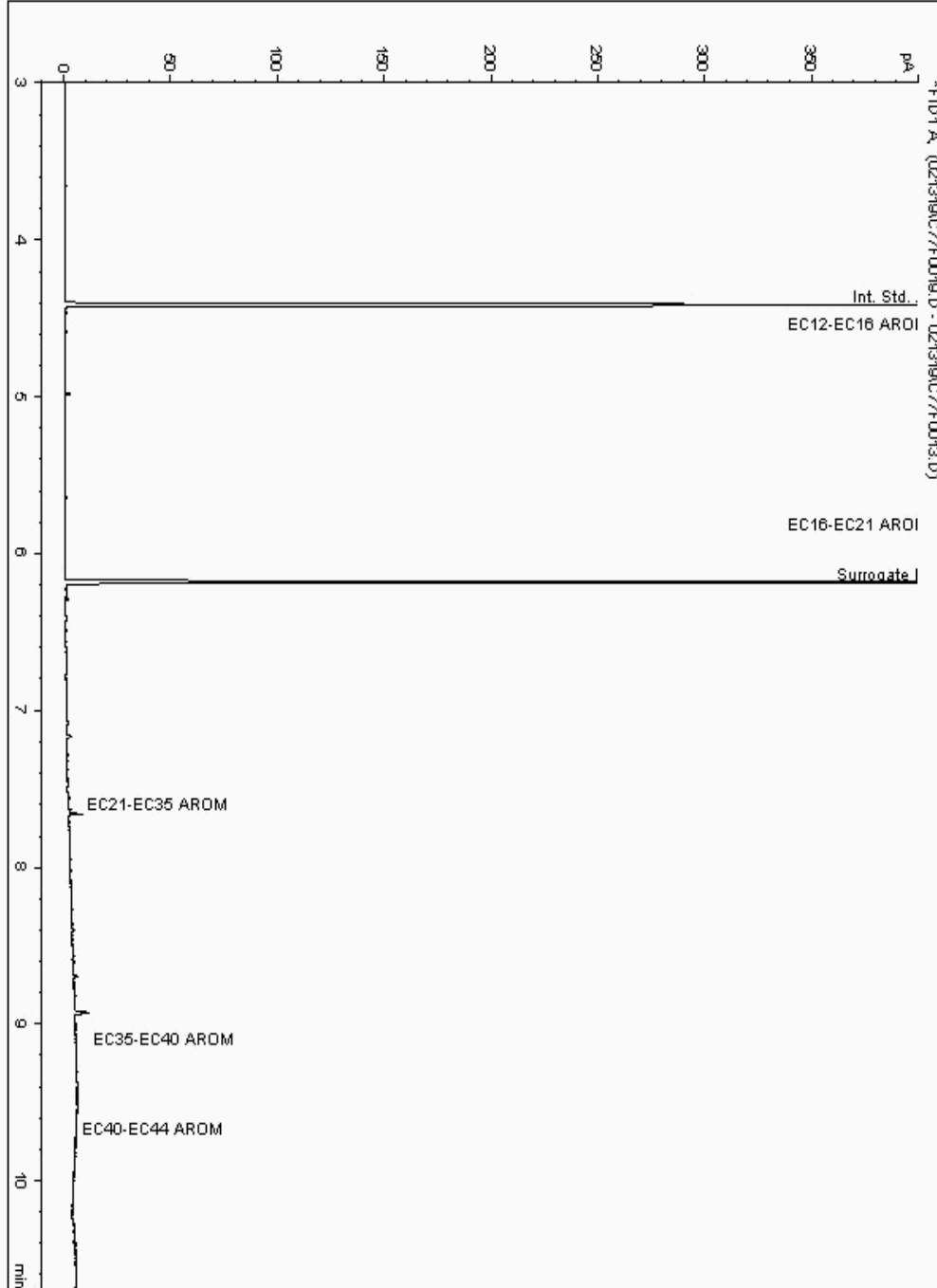
Analysis: EPH CWG (Aromatic) GC (S)
19312371

Sample No :
Sample ID : BH242

19,312,371 Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110000-
Date Acquired : 13/02/2019 15:53:18 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

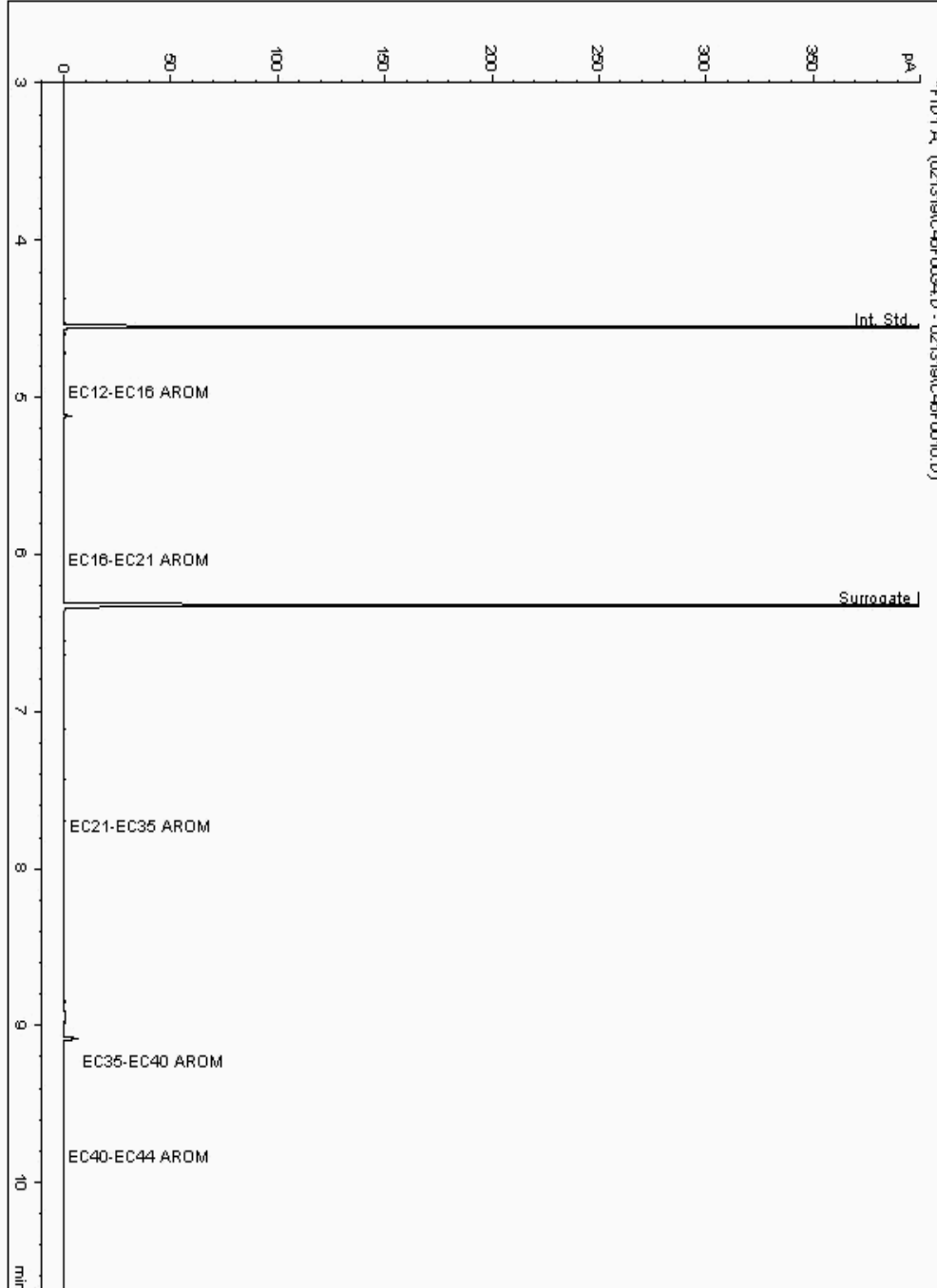
Analysis: EPH CWG (Aromatic) GC (S)
19312414

Sample No :
Sample ID : BH242

19,312,414 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110735-
Date Acquired : 13/02/2019 20:17:50 PM
Units : ppb
Dilution: BH242[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

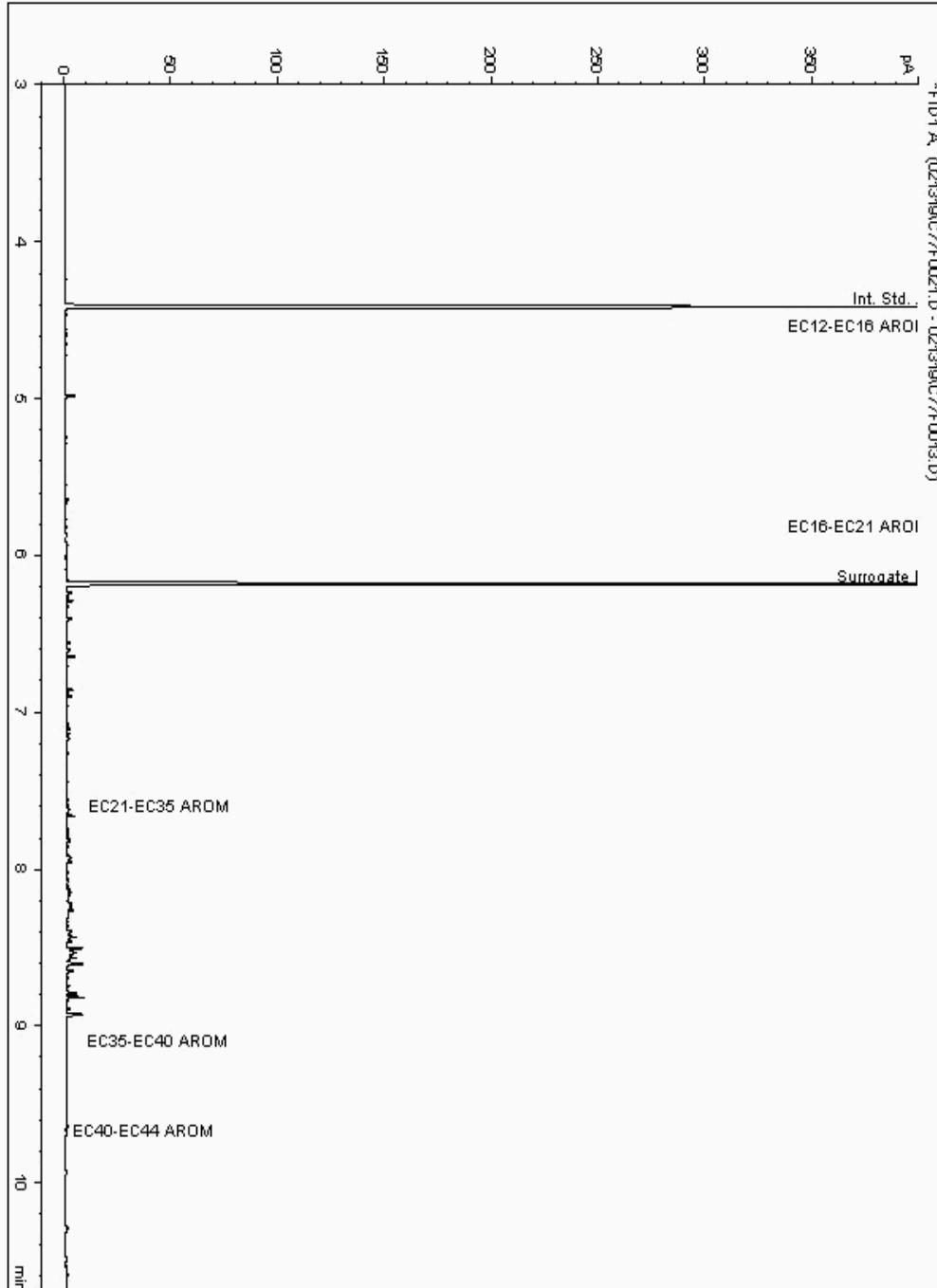
Analysis: EPH CWG (Aromatic) GC (S)
19312819

Sample No :
Sample ID : BH242

19,312,819 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110157-
Date Acquired : 13/02/2019 16:25:38 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

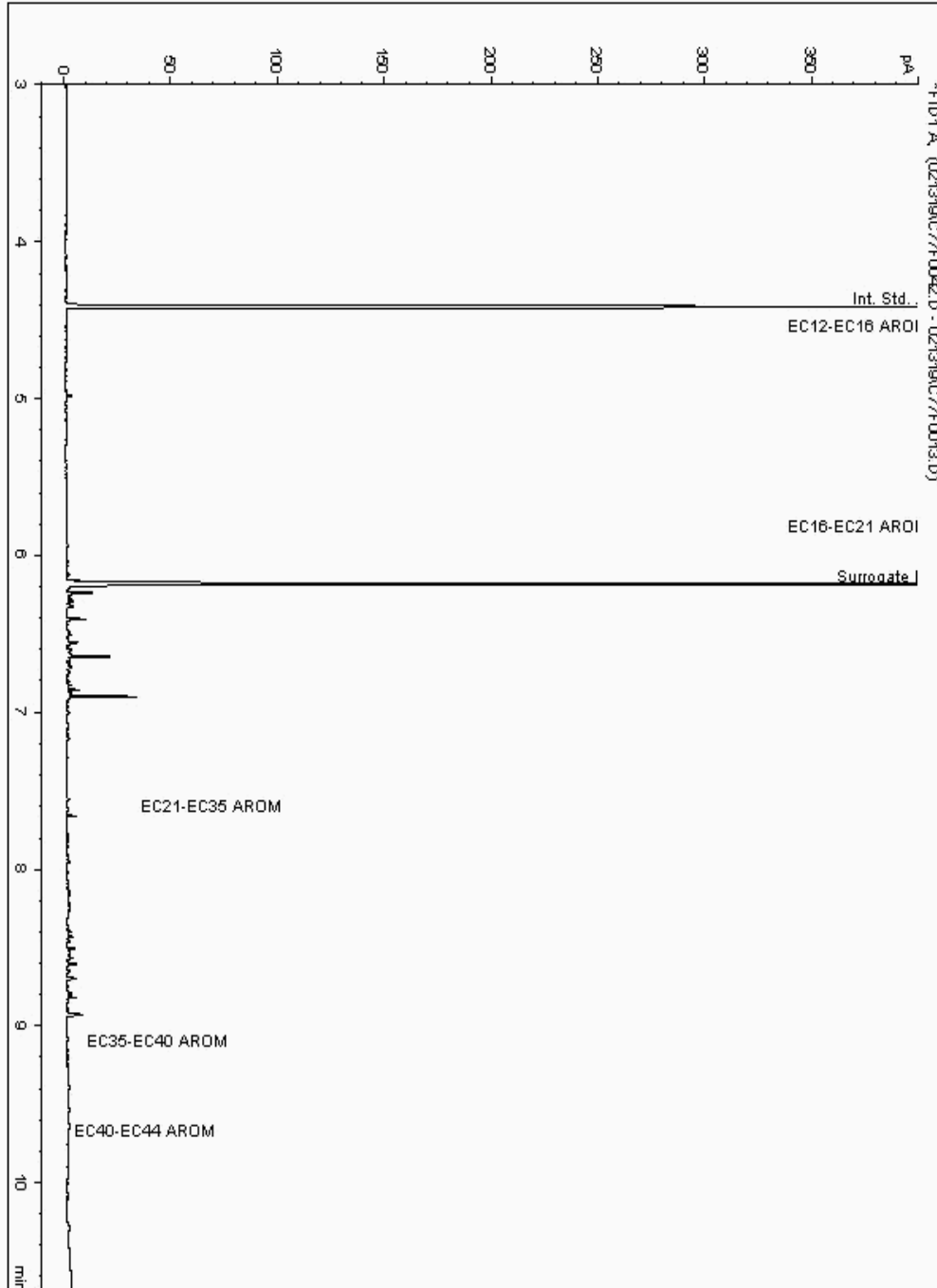
Analysis: EPH CWG (Aromatic) GC (S)
19312870

Sample No :
Sample ID : BH242

19,312,870 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18110236-
Date Acquired : 13/02/2019 22:21:02 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

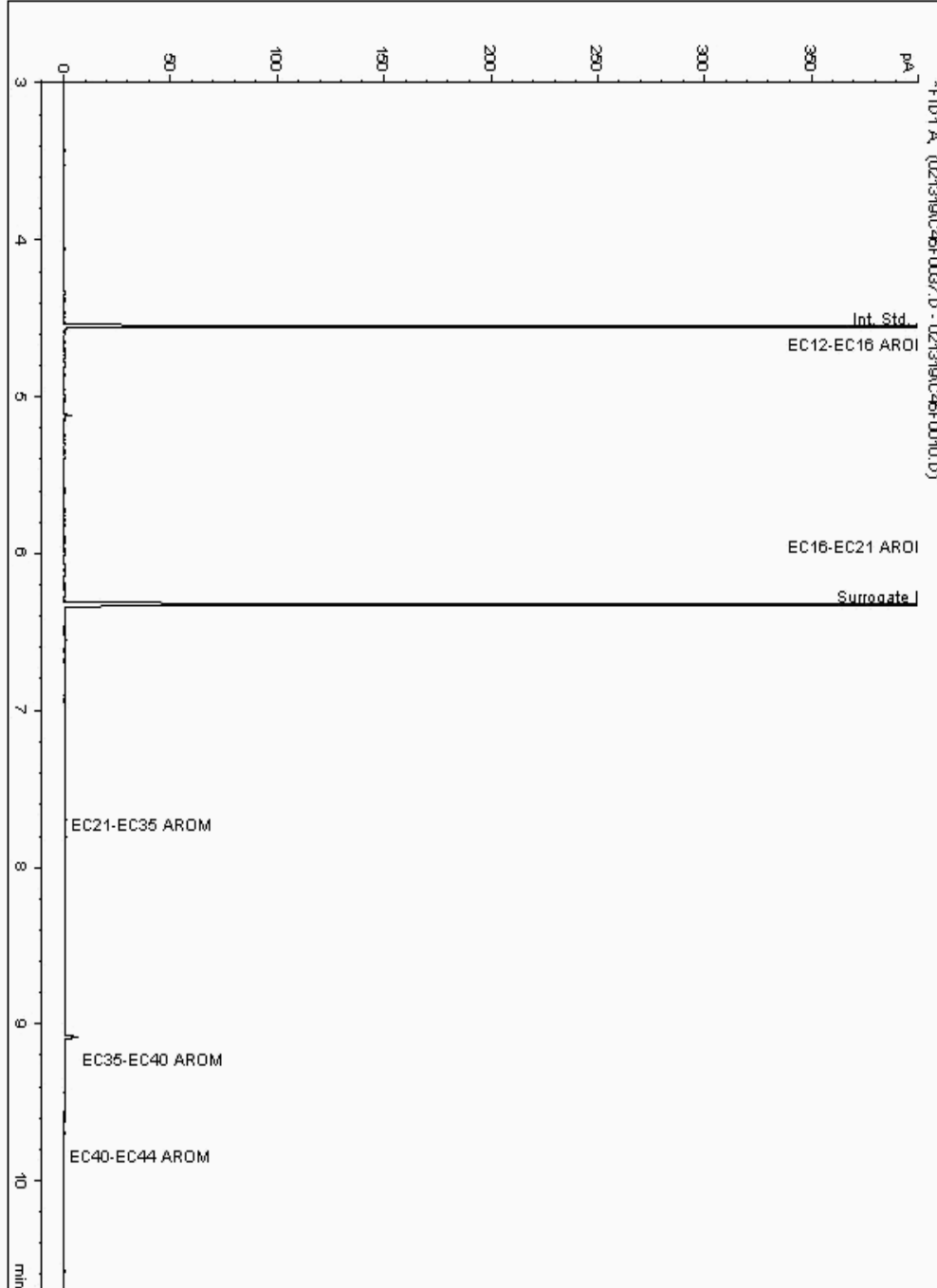
Analysis: EPH CWG (Aromatic) GC (S)
19313005

Sample No :
Sample ID : BH242

19,313,005Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18110855-
Date Acquired : 13/02/2019 21:18:00 PM
Units : ppb
Dilution: BH242[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

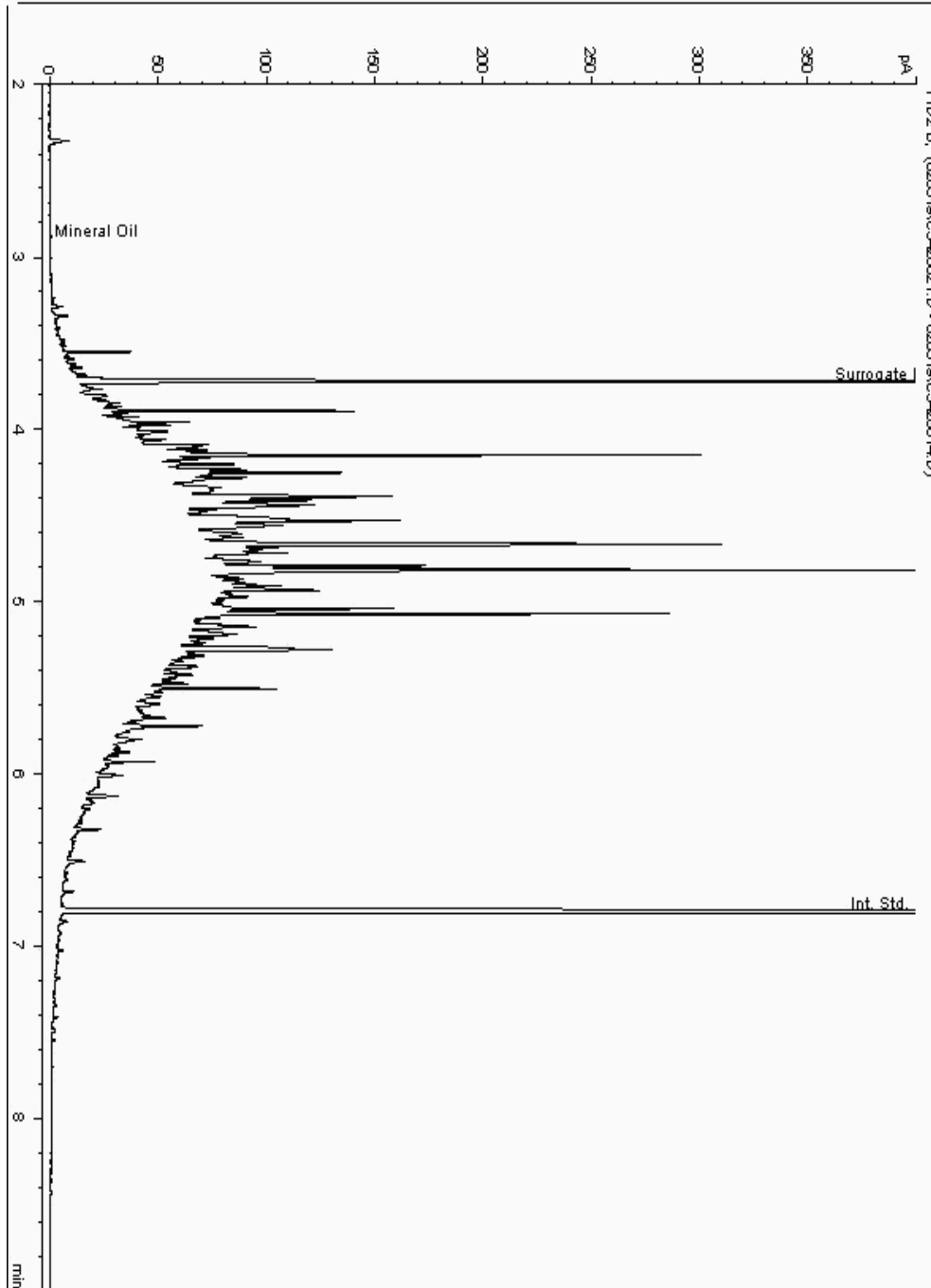
Analysis: Mineral Oil
19262689

Sample No :
Sample ID : BH239

19,262,689Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091182-
Date Acquired : 05/02/2019 12:54:40 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

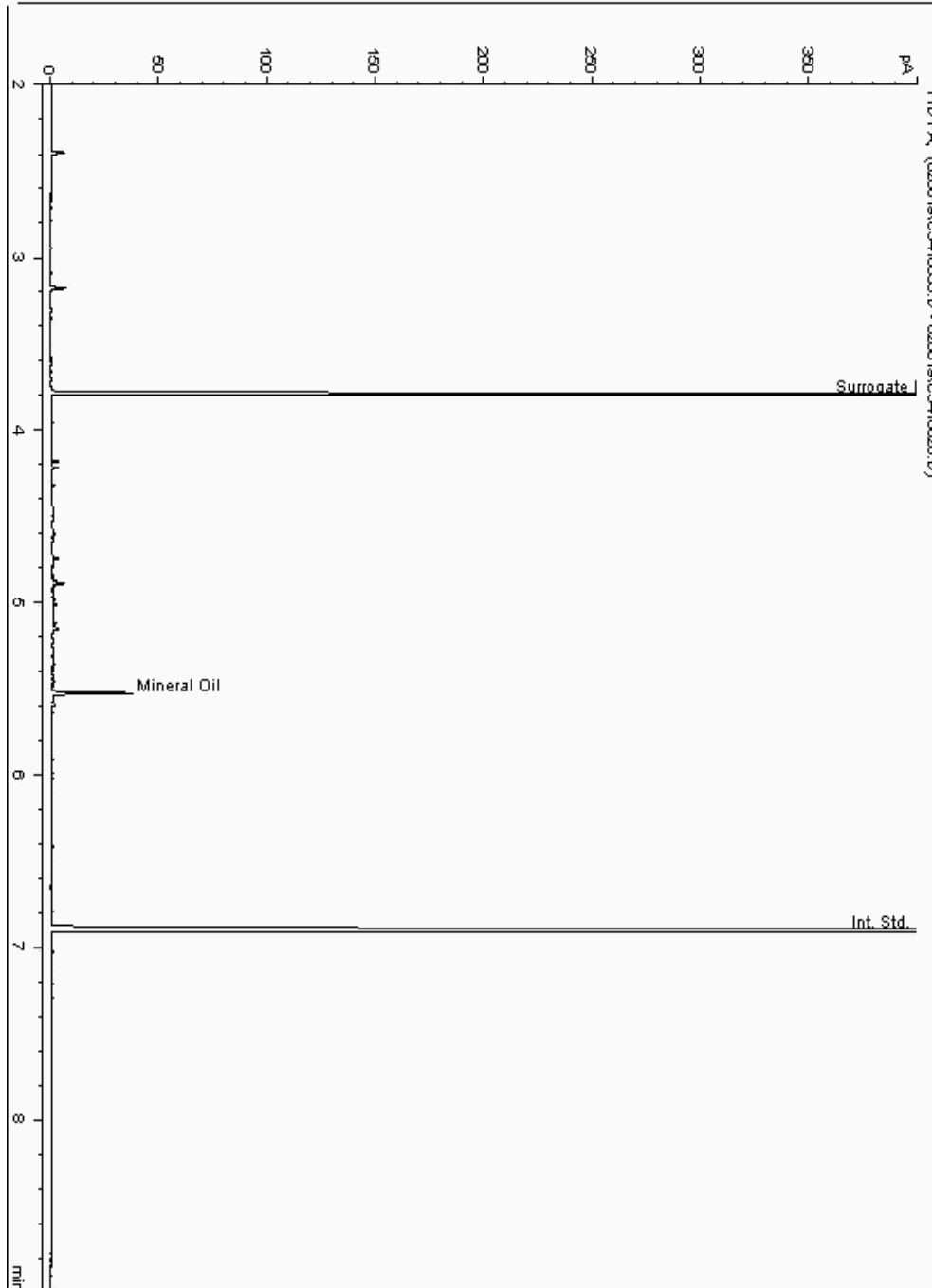
Analysis: Mineral Oil
19262789

Sample No :
Sample ID : BH239

19,262,789Depth :0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091269-
Date Acquired : 07/02/2019 09:26:25 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

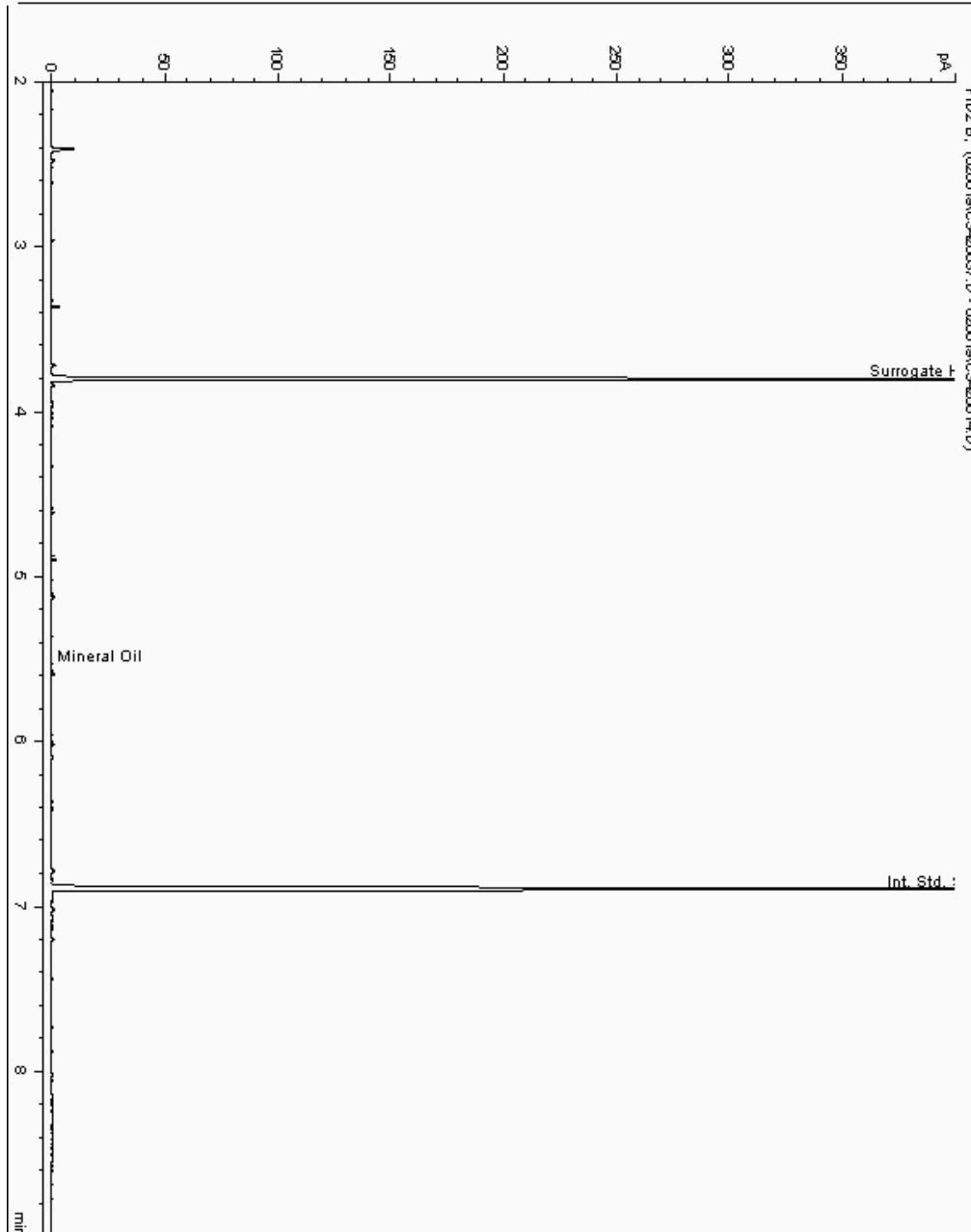
Analysis: Mineral Oil
19263631

Sample No :
Sample ID : BH240

19,263,631 Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092489-
Date Acquired : 06/02/19 17:54:48 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

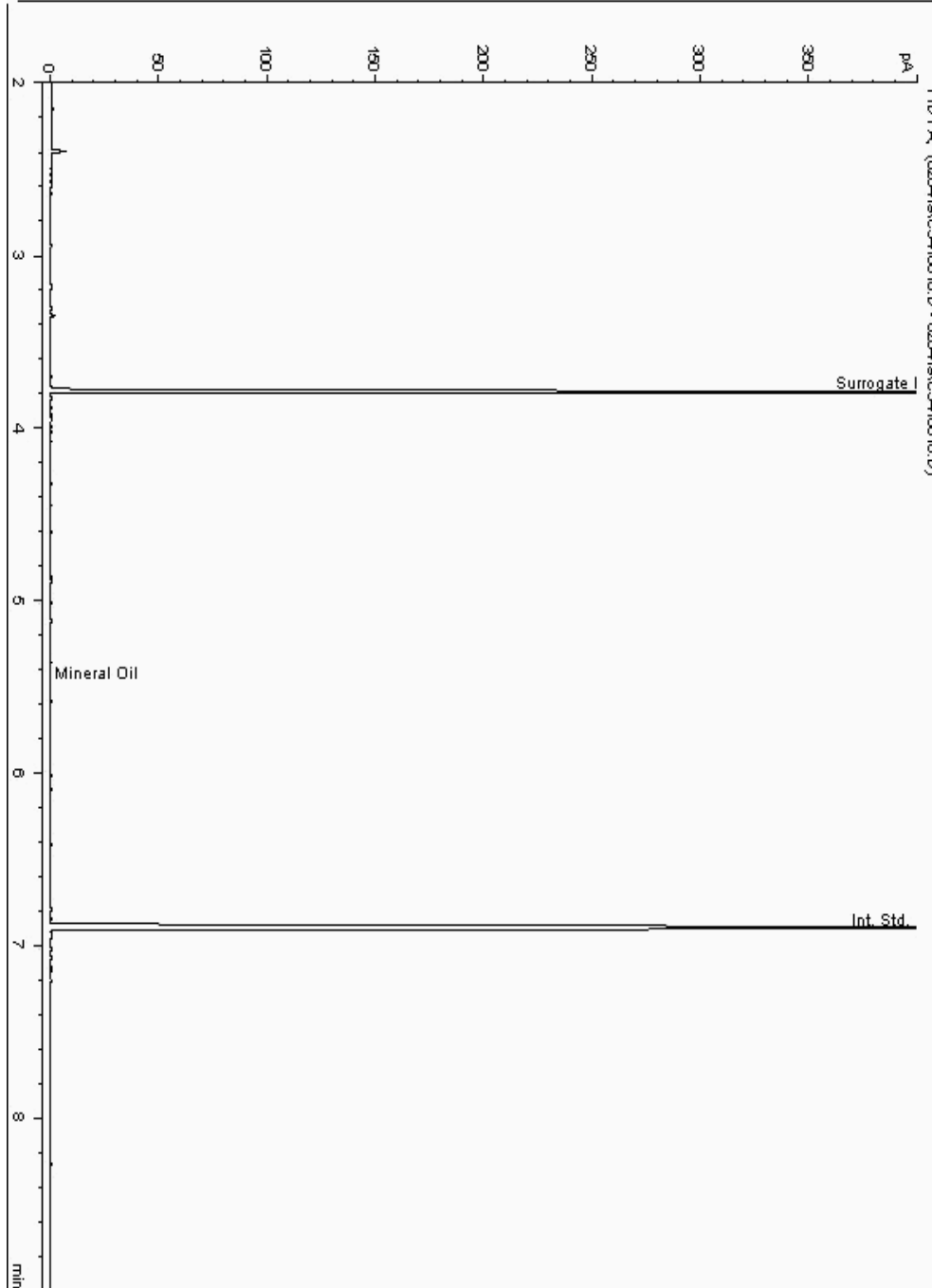
Analysis: Mineral Oil
19263802

Sample No :
Sample ID : BH240

19,263,802Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092550-
Date Acquired : 04/02/2019 16:43:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

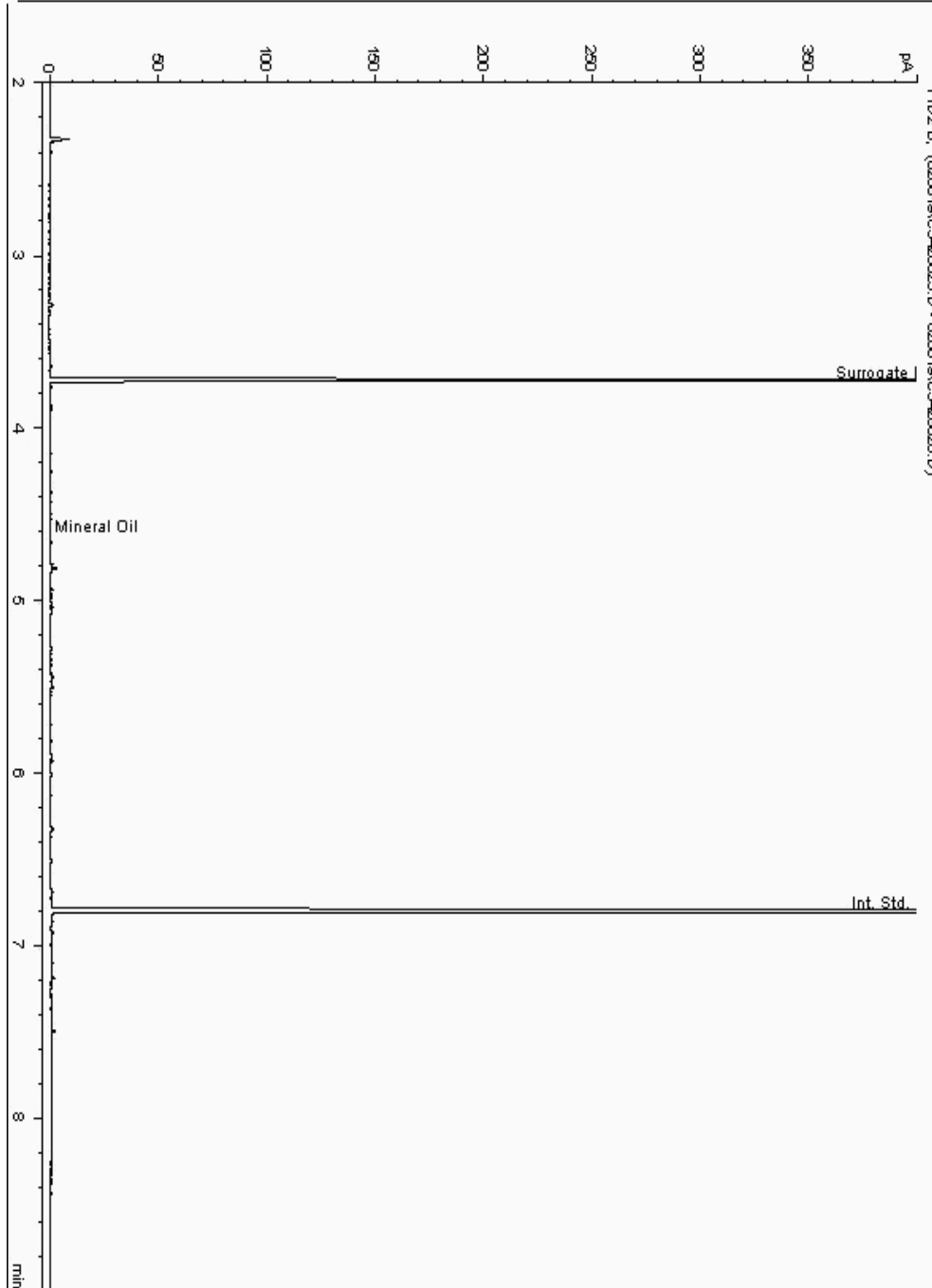
Analysis: Mineral Oil
19263830

Sample No :
Sample ID : BH239

19,263,830Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091570-
Date Acquired : 06/02/2019 15:22:47 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

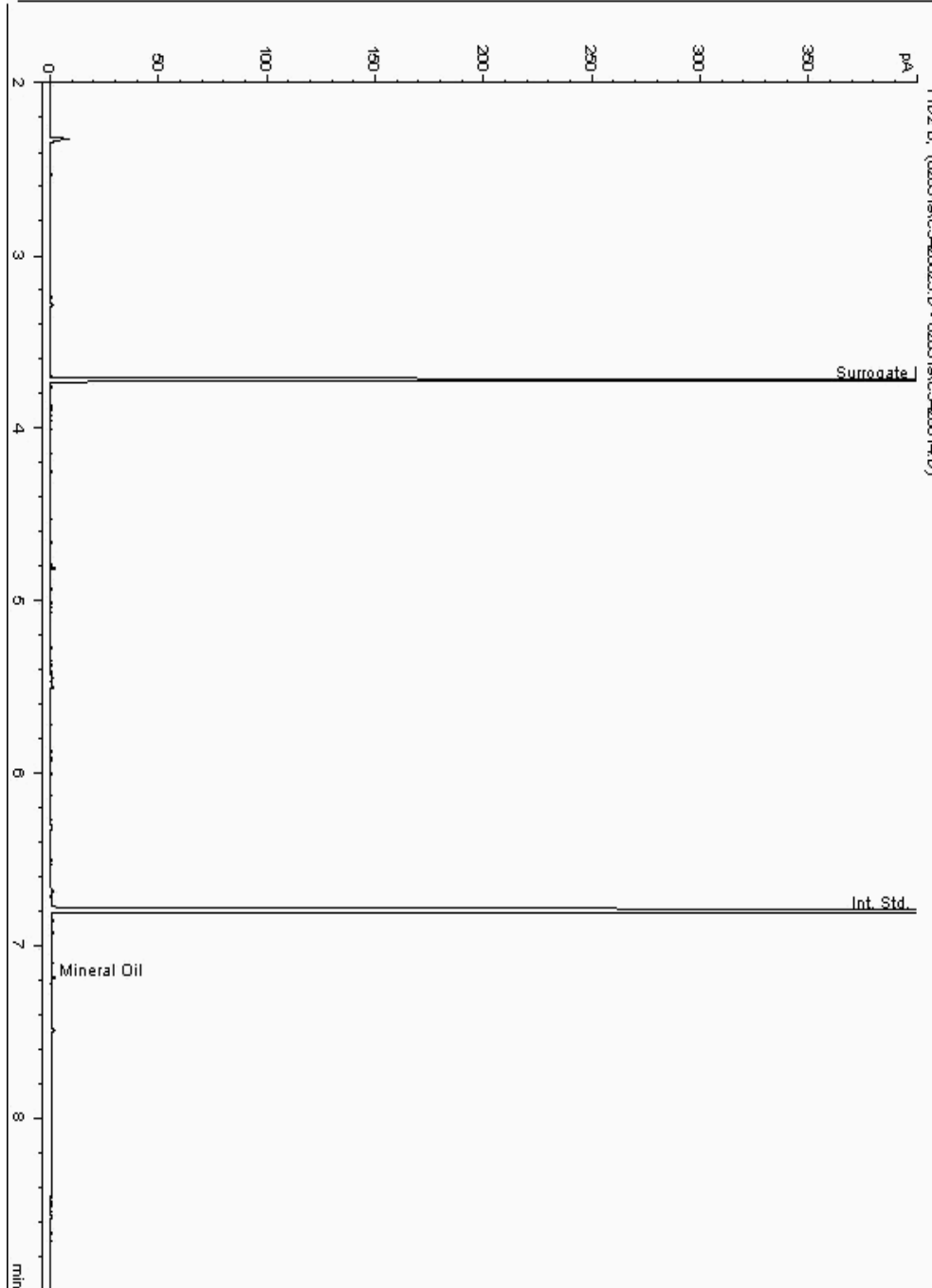
Analysis: Mineral Oil
19263865

Sample No :
Sample ID : BH239

19,263,865Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091436-
Date Acquired : 05/02/2019 13:27:43 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

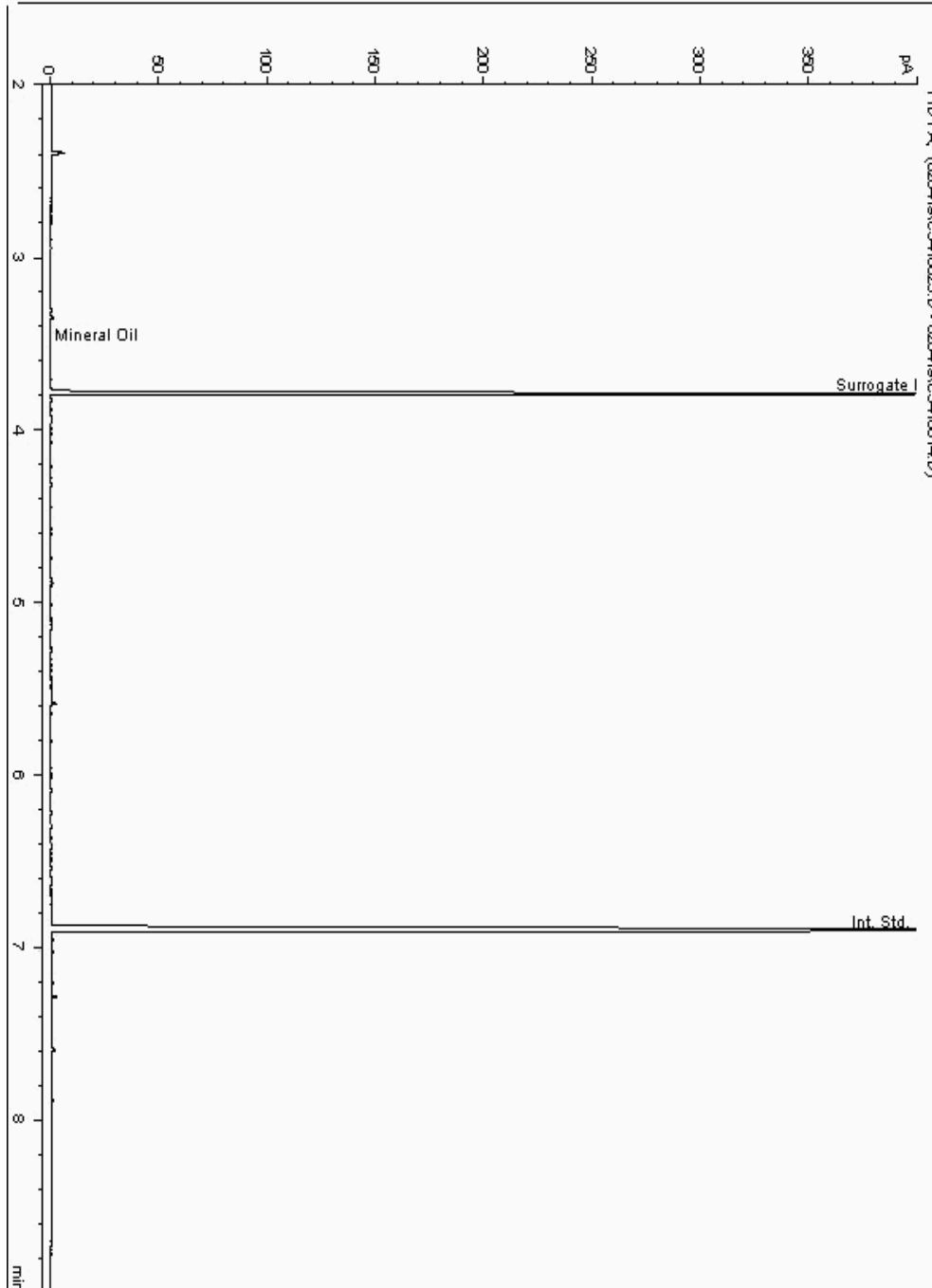
Analysis: Mineral Oil
19263899

Sample No :
Sample ID : BH239

19,263,899Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091495-
Date Acquired : 04/02/2019 18:26:10 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

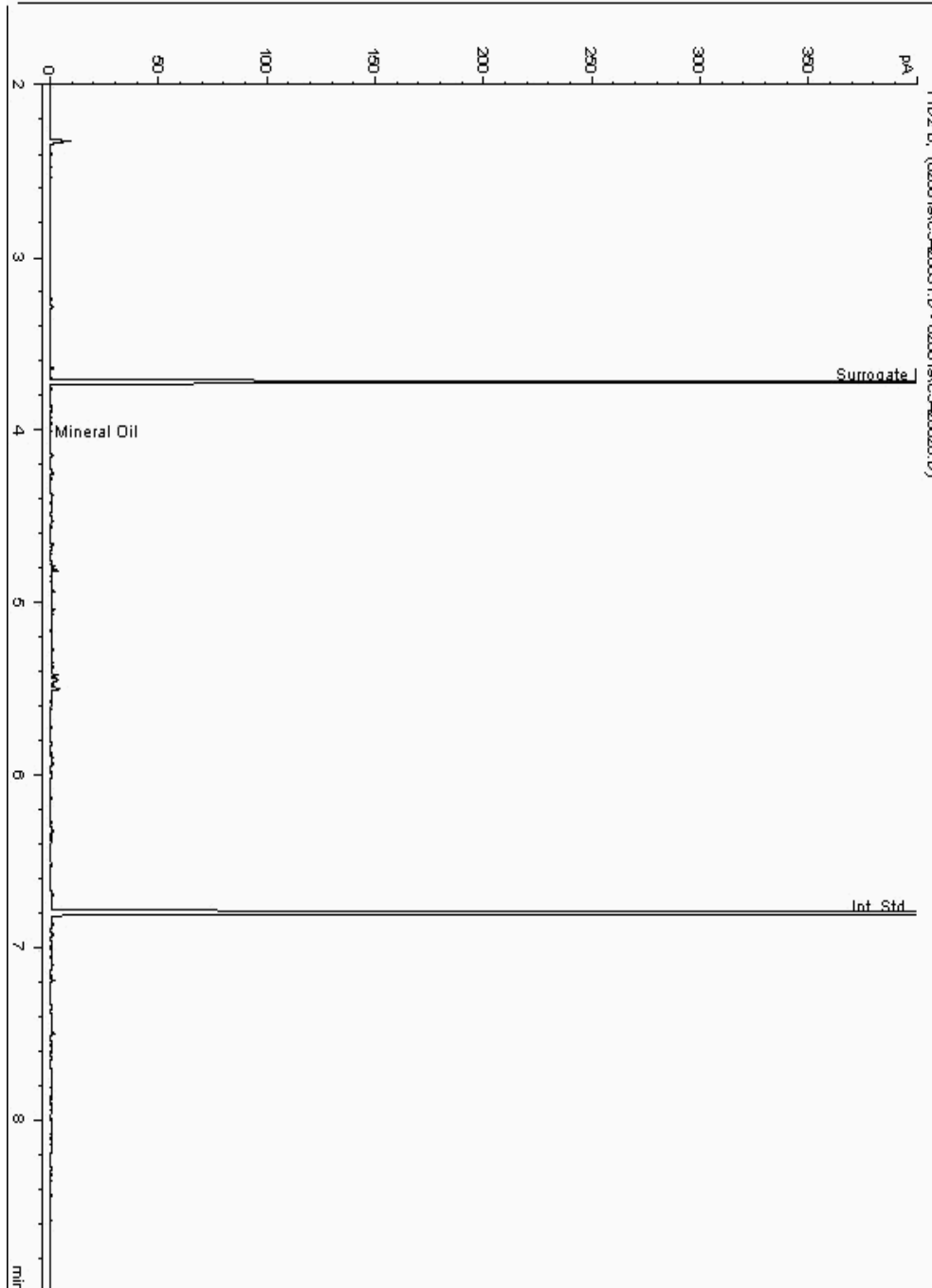
Analysis: Mineral Oil
19263935

Sample No :
Sample ID : BH239

19,263,935Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091349-
Date Acquired : 07/02/2019 08:55:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

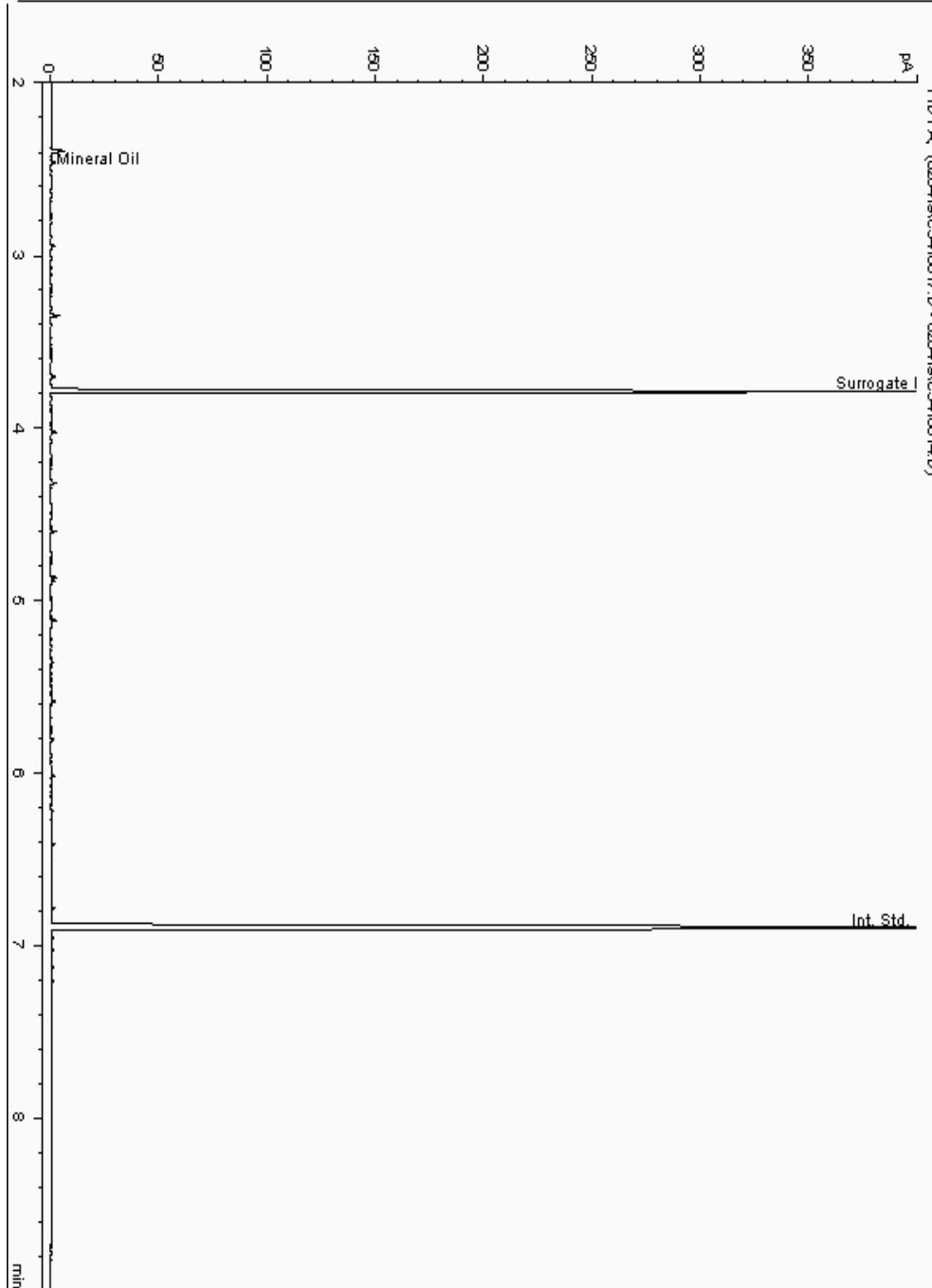
Analysis: Mineral Oil
19263966

Sample No :
Sample ID : BH239

19,263,966Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091810-
Date Acquired : 04/02/2019 16:23:04 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

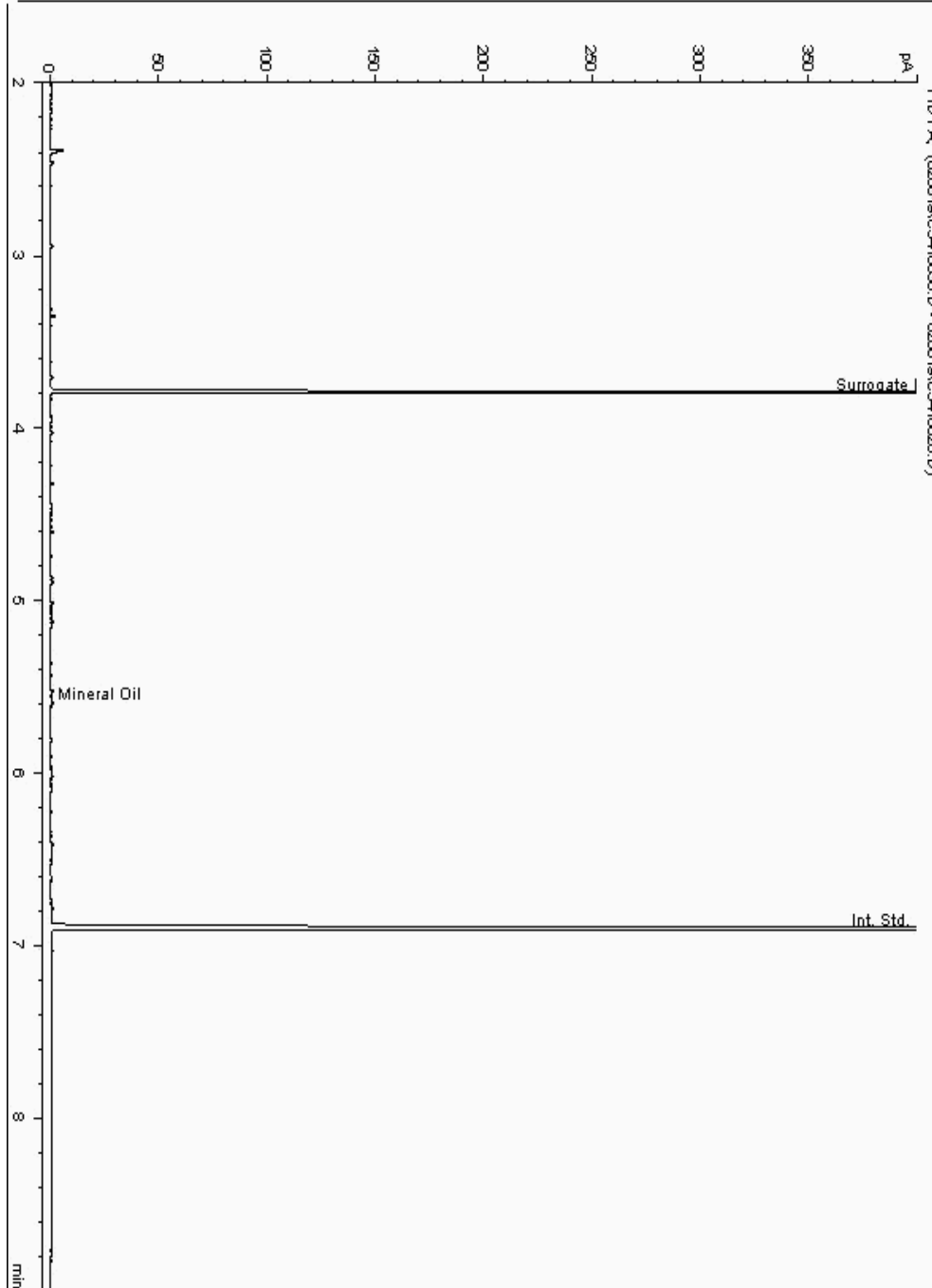
Analysis: Mineral Oil
19264070

Sample No :
Sample ID : BH240

19,264,070 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092719-
Date Acquired : 07/02/2019 10:29:02 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

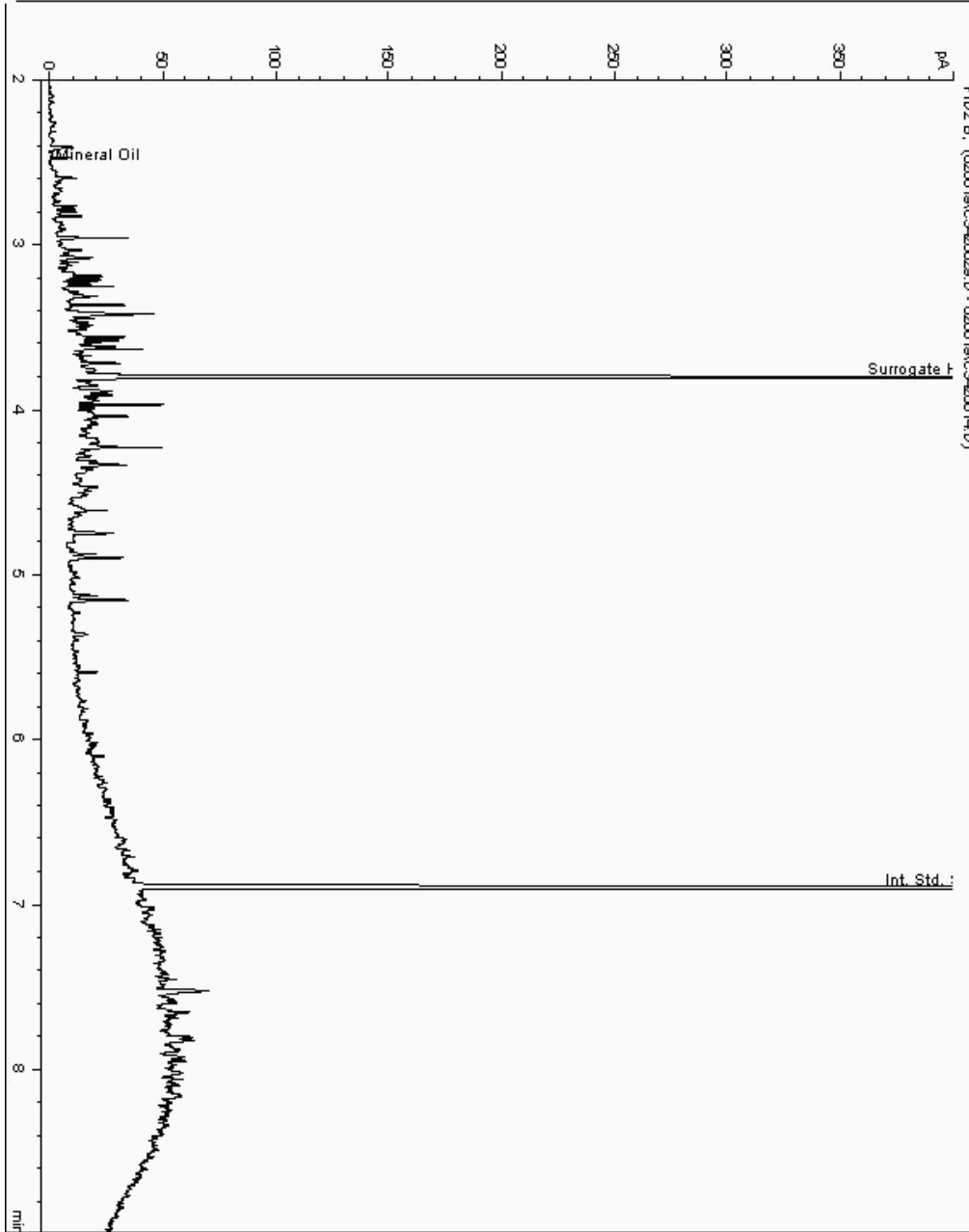
Analysis: Mineral Oil
19264337

Sample No :
Sample ID : BH240

19,264,337Depth :0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092001-
Date Acquired : 06/02/19 15:38:05 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

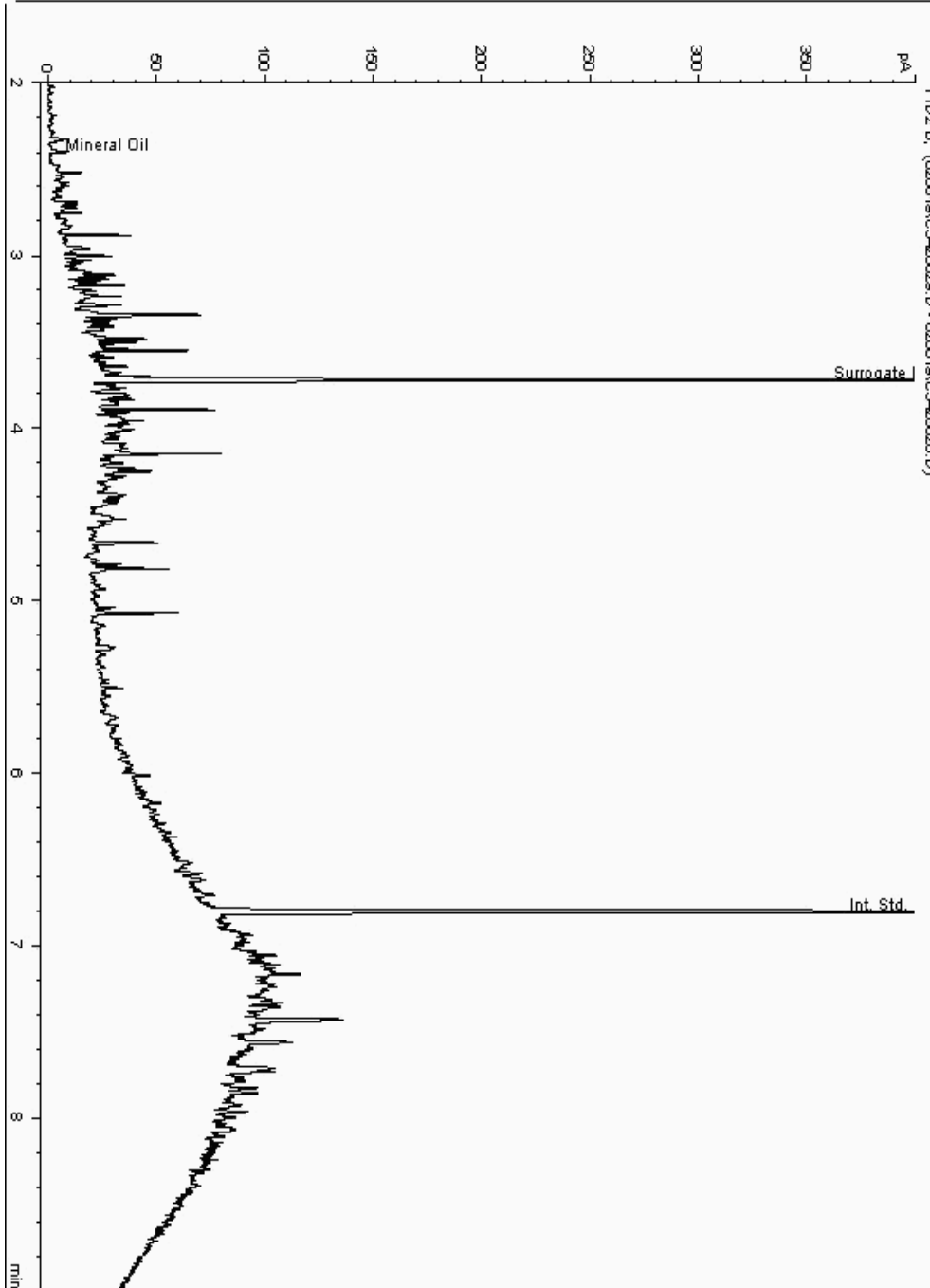
Analysis: Mineral Oil
19264375

Sample No :
Sample ID : BH240

19,264,375Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091922-
Date Acquired : 07/02/2019 08:14:08 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

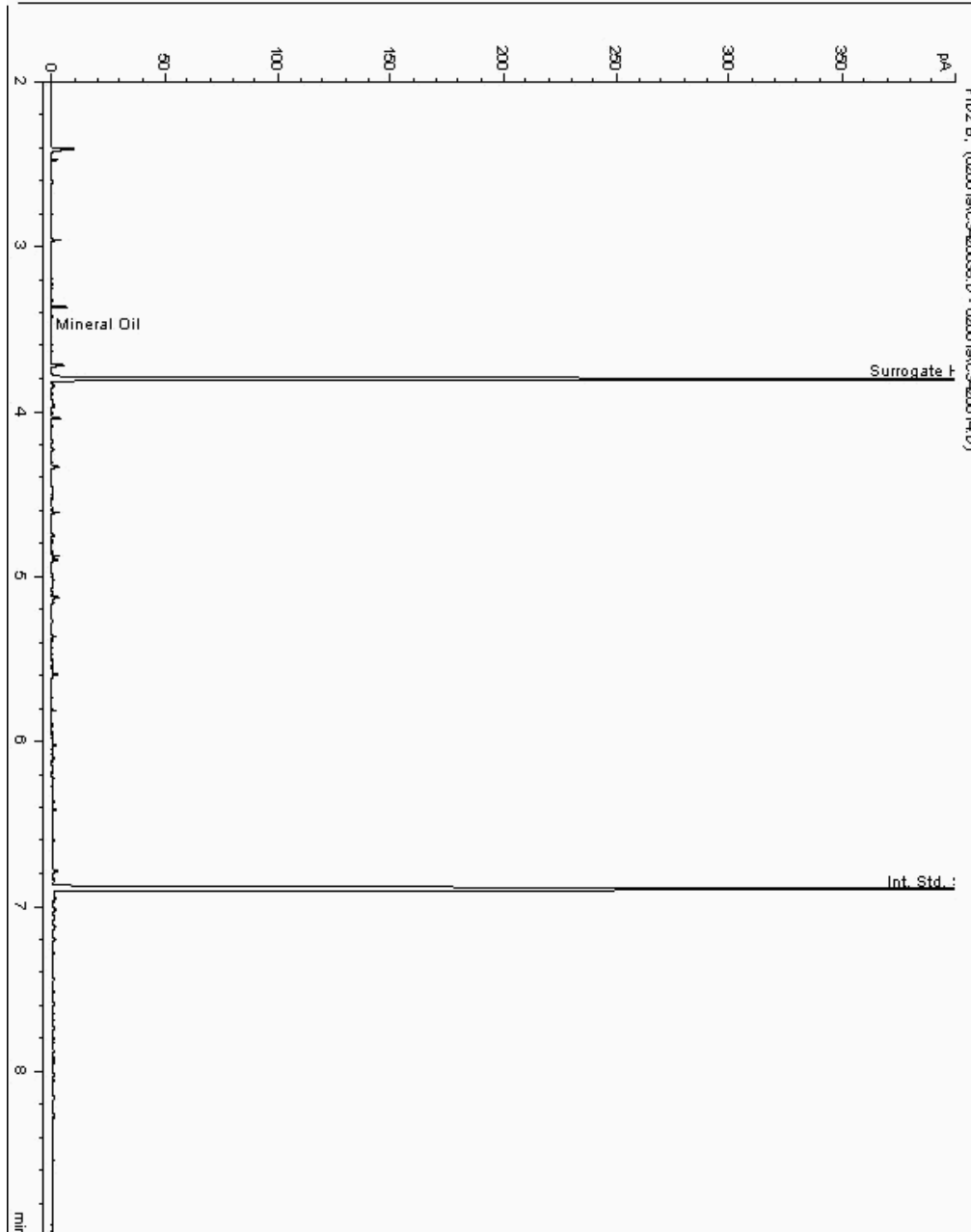
Analysis: Mineral Oil
19264466

Sample No :
Sample ID : BH240

19,264,466Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092619-
Date Acquired : 06/02/19 18:14:47 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

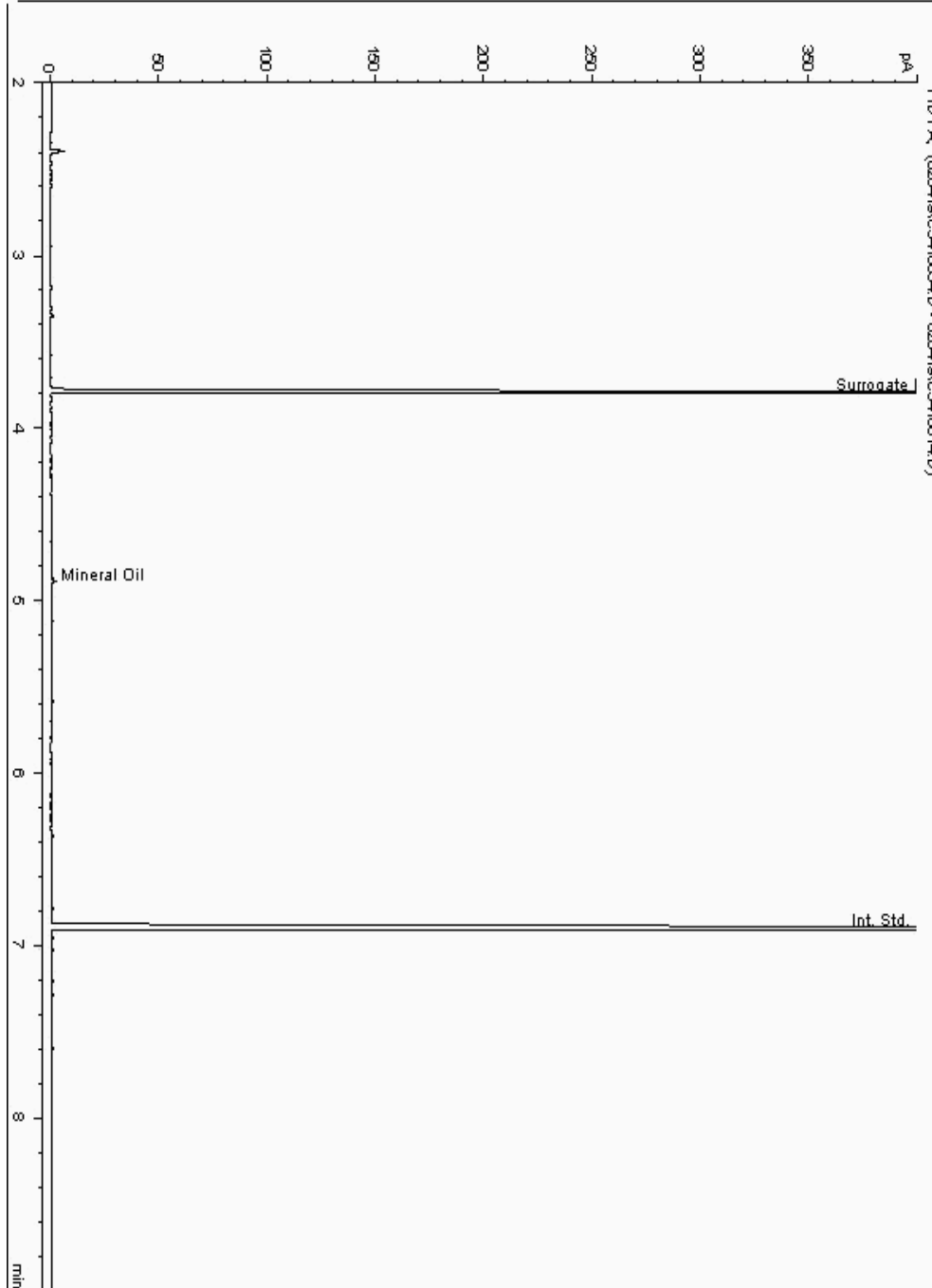
Analysis: Mineral Oil
19264479

Sample No :
Sample ID : BH239

19,264,479 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091623-
Date Acquired : 04/02/2019 21:39:06 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

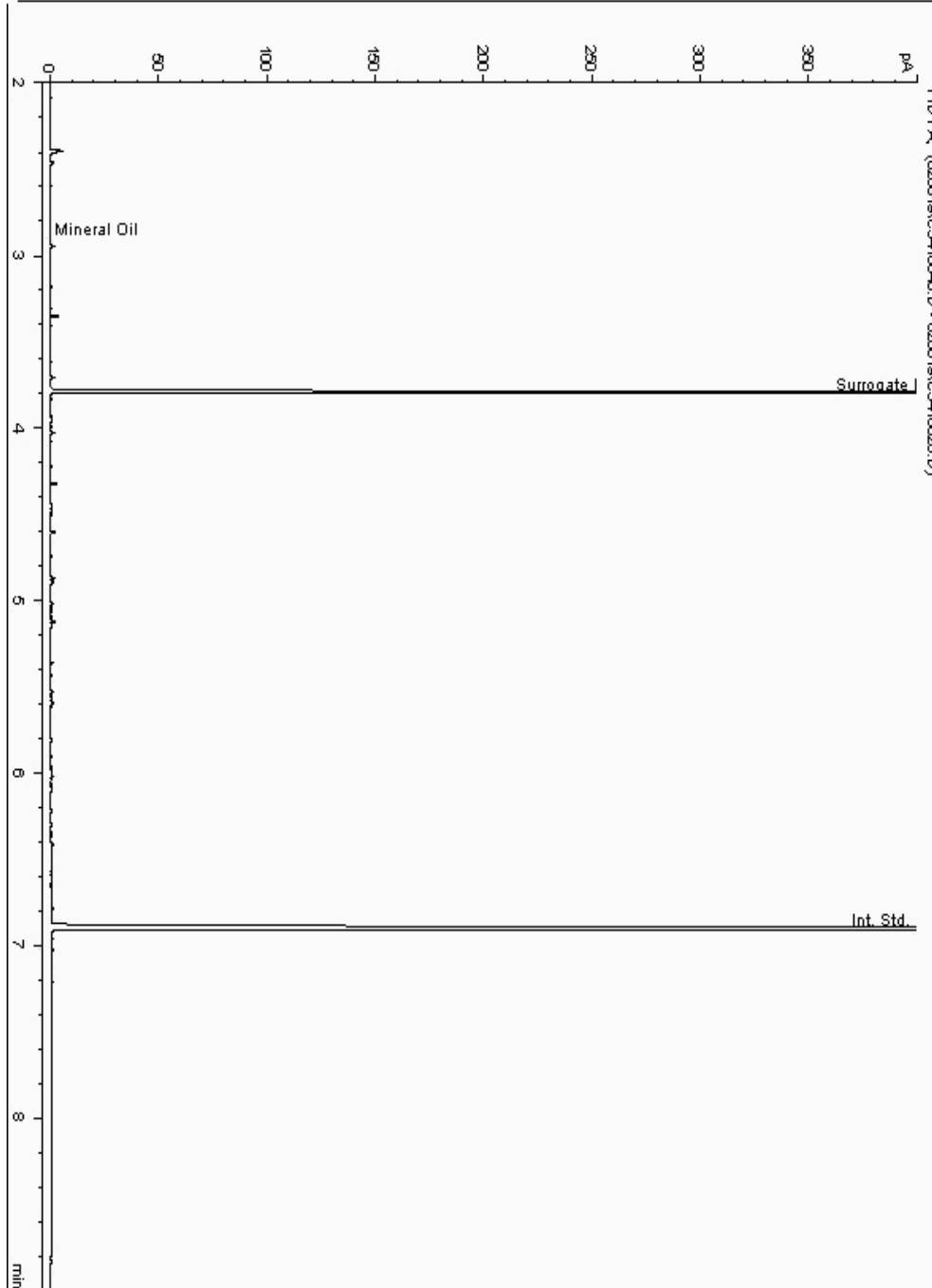
Analysis: Mineral Oil
19264496

Sample No :
Sample ID : BH239

19,264,496Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091864-
Date Acquired : 07/02/2019 11:52:09 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

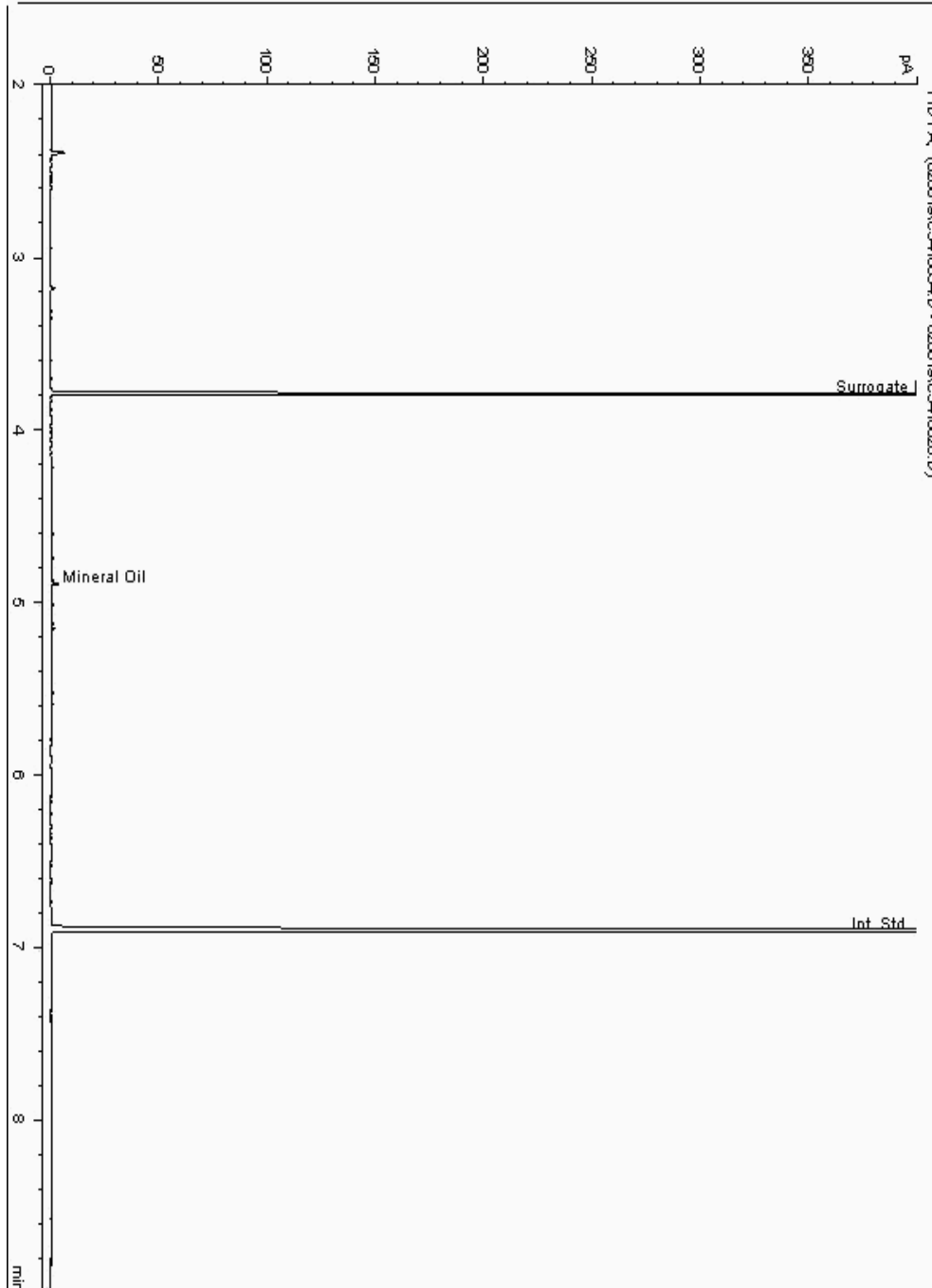
Analysis: Mineral Oil
19264534

Sample No :
Sample ID : BH239

19,264,534 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091649-
Date Acquired : 07/02/2019 09:47:32 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

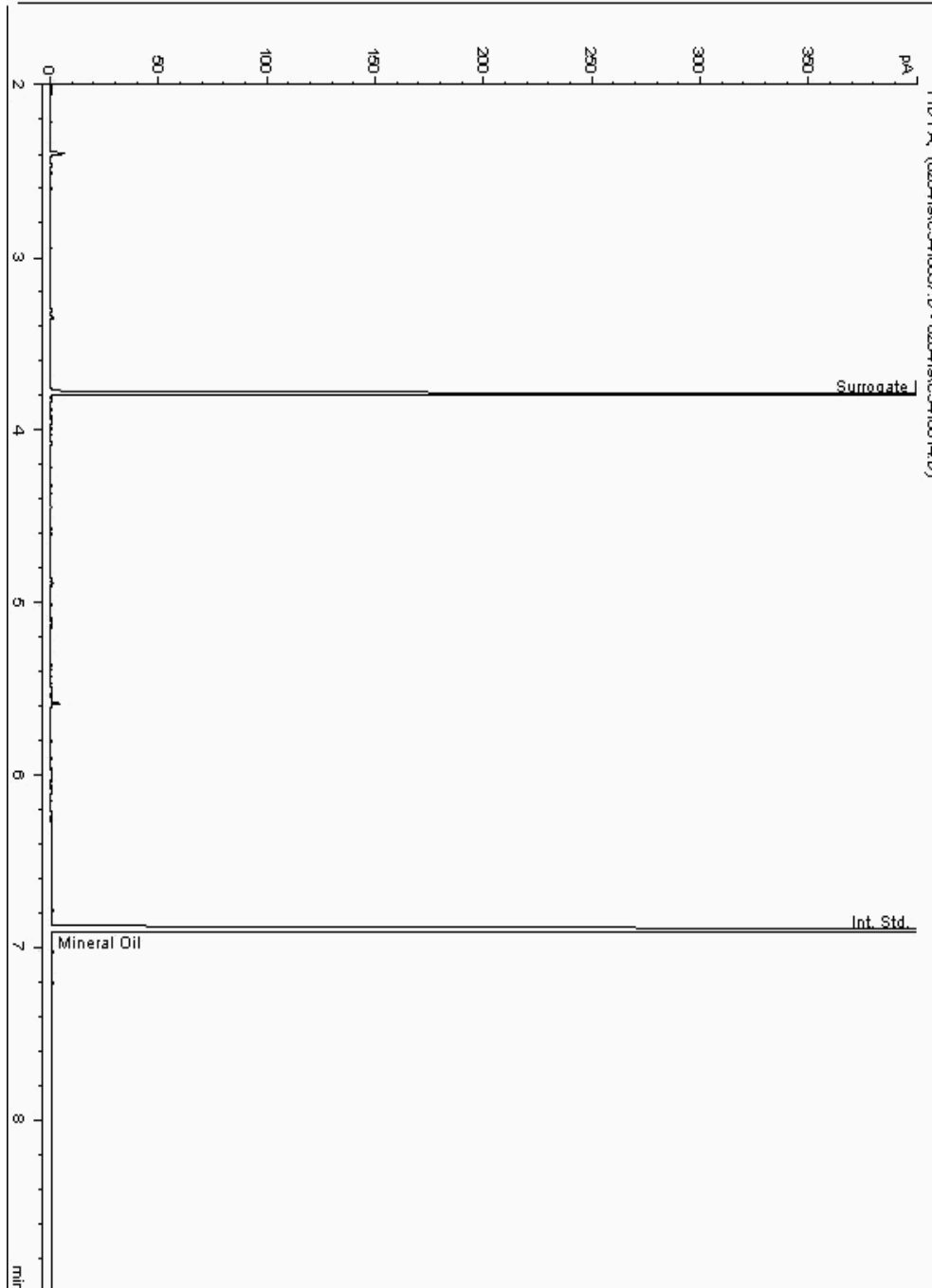
Analysis: Mineral Oil
19264916

Sample No :
Sample ID : BH240

19,264,916 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092372-
Date Acquired : 04/02/2019 22:32:33 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

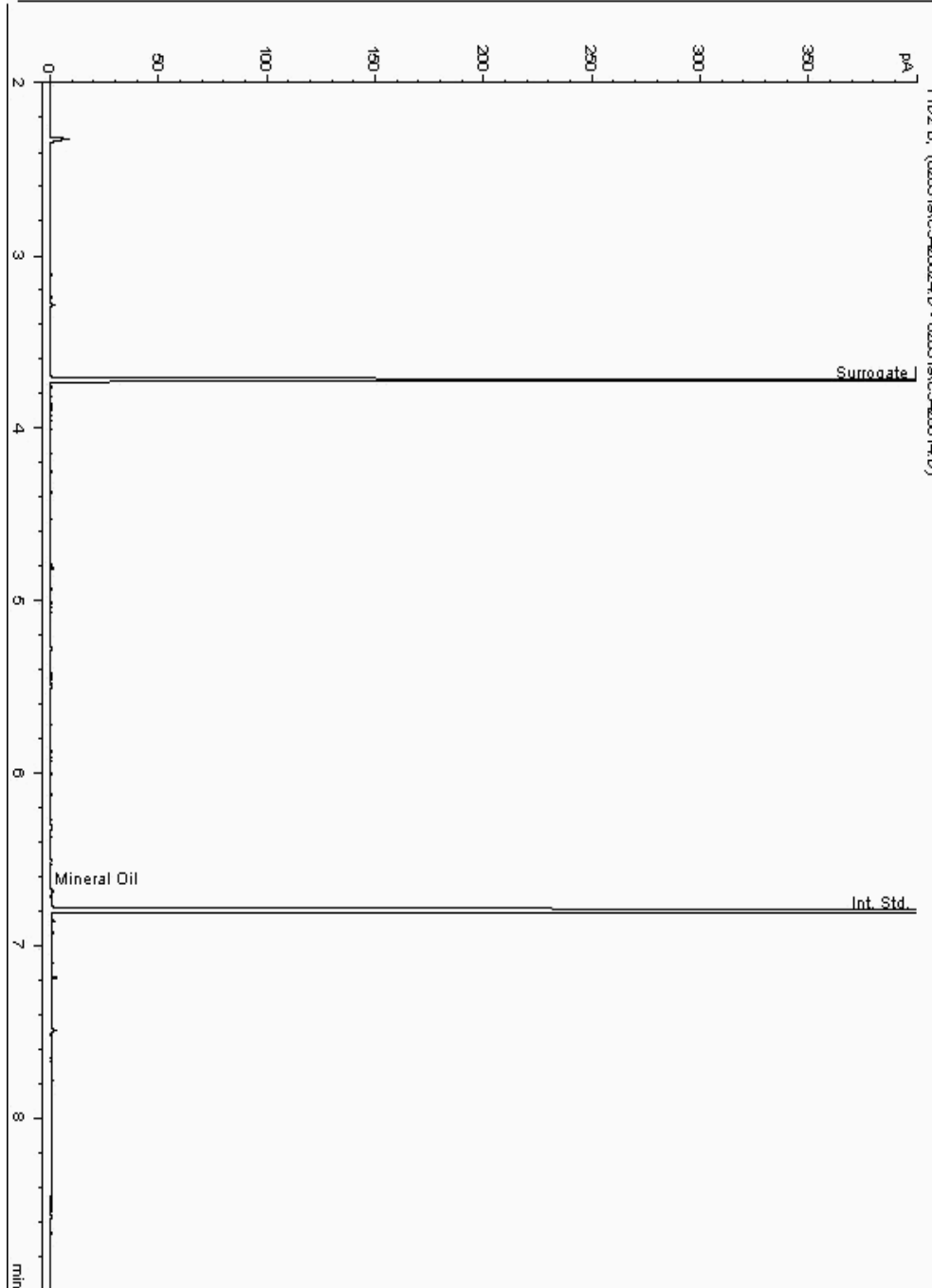
Analysis: Mineral Oil
19264938

Sample No :
Sample ID : BH240

19,264,938 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092087-
Date Acquired : 05/02/2019 13:48:21 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

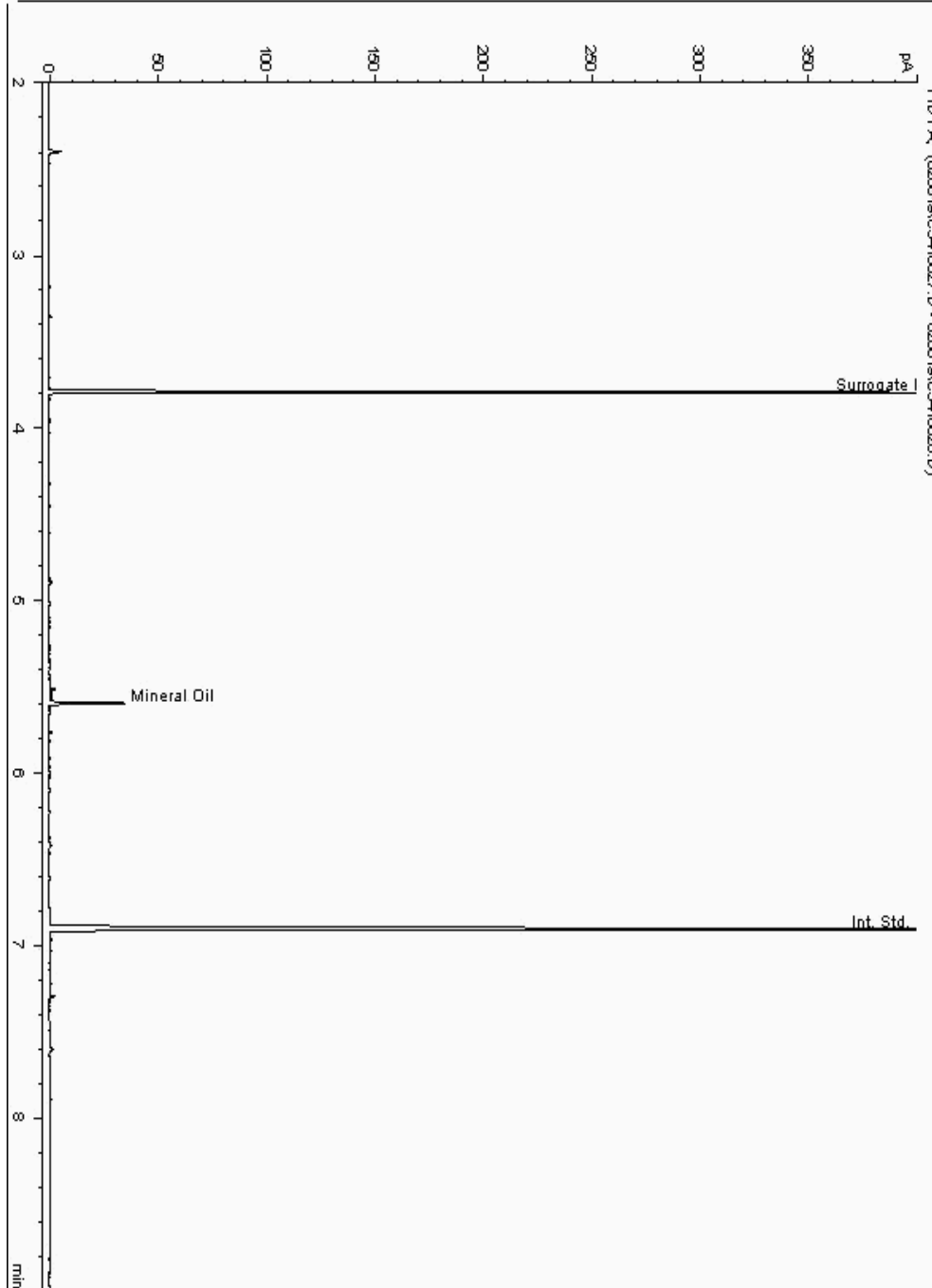
Analysis: Mineral Oil
19264965

Sample No :
Sample ID : BH240

19,264,965Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092297-
Date Acquired : 07/02/2019 07:33:03 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

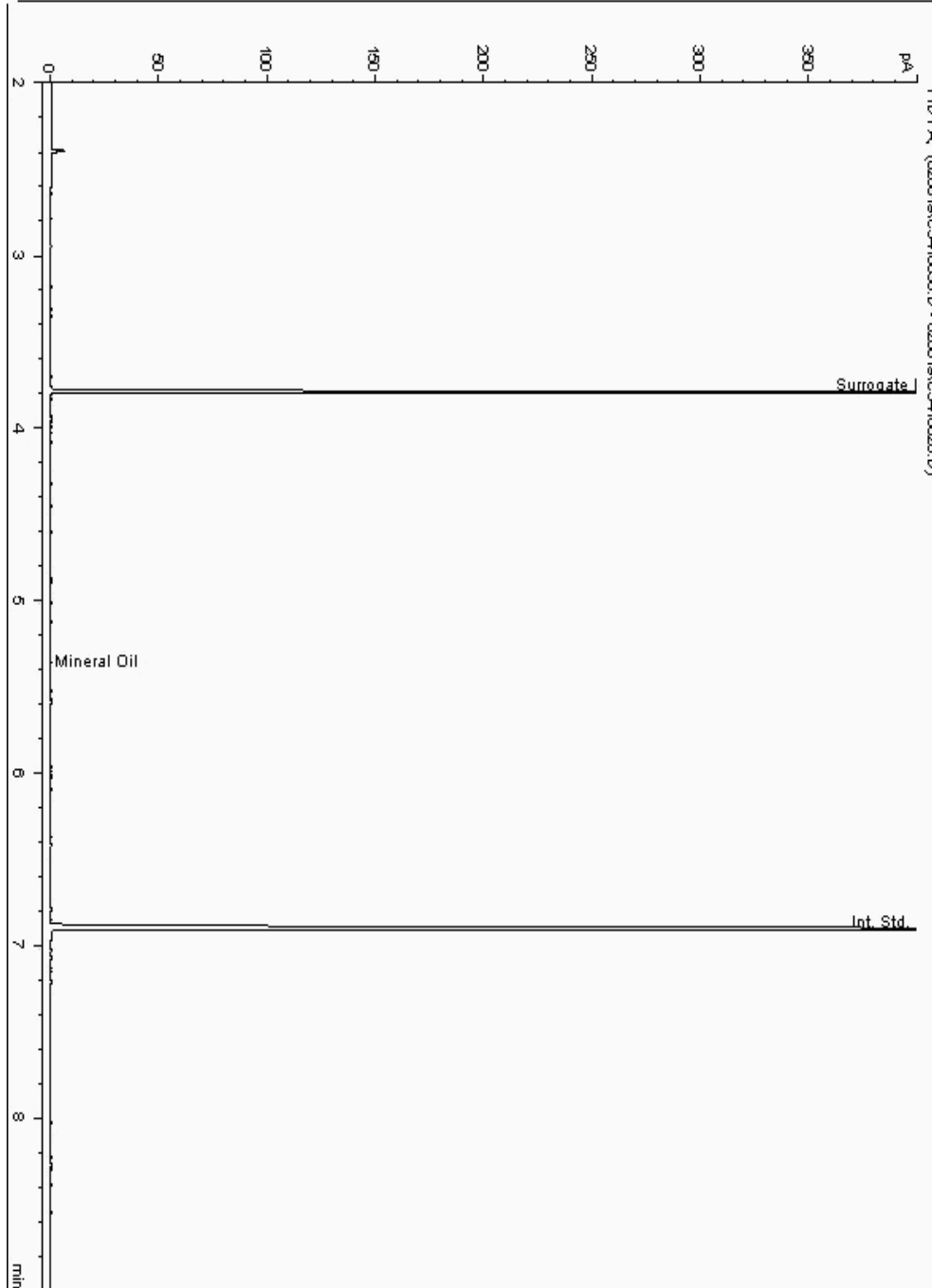
Analysis: Mineral Oil
19265085

Sample No :
Sample ID : BH239

19,265,085 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091759-
Date Acquired : 07/02/2019 11:10:42 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

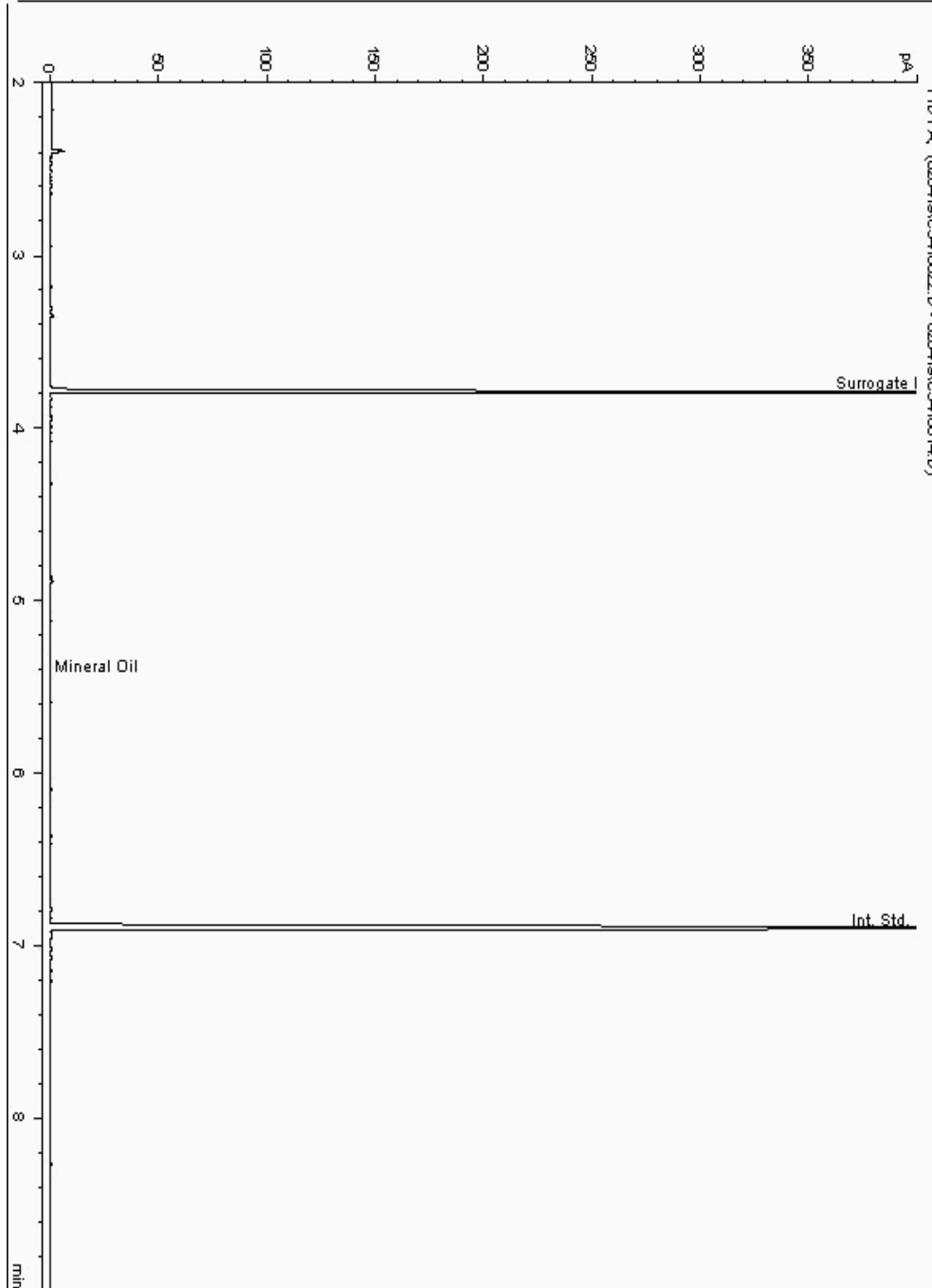
Analysis: Mineral Oil
19265094

Sample No :
Sample ID : BH239

19,265,094Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18091704-
Date Acquired : 04/02/2019 18:05:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

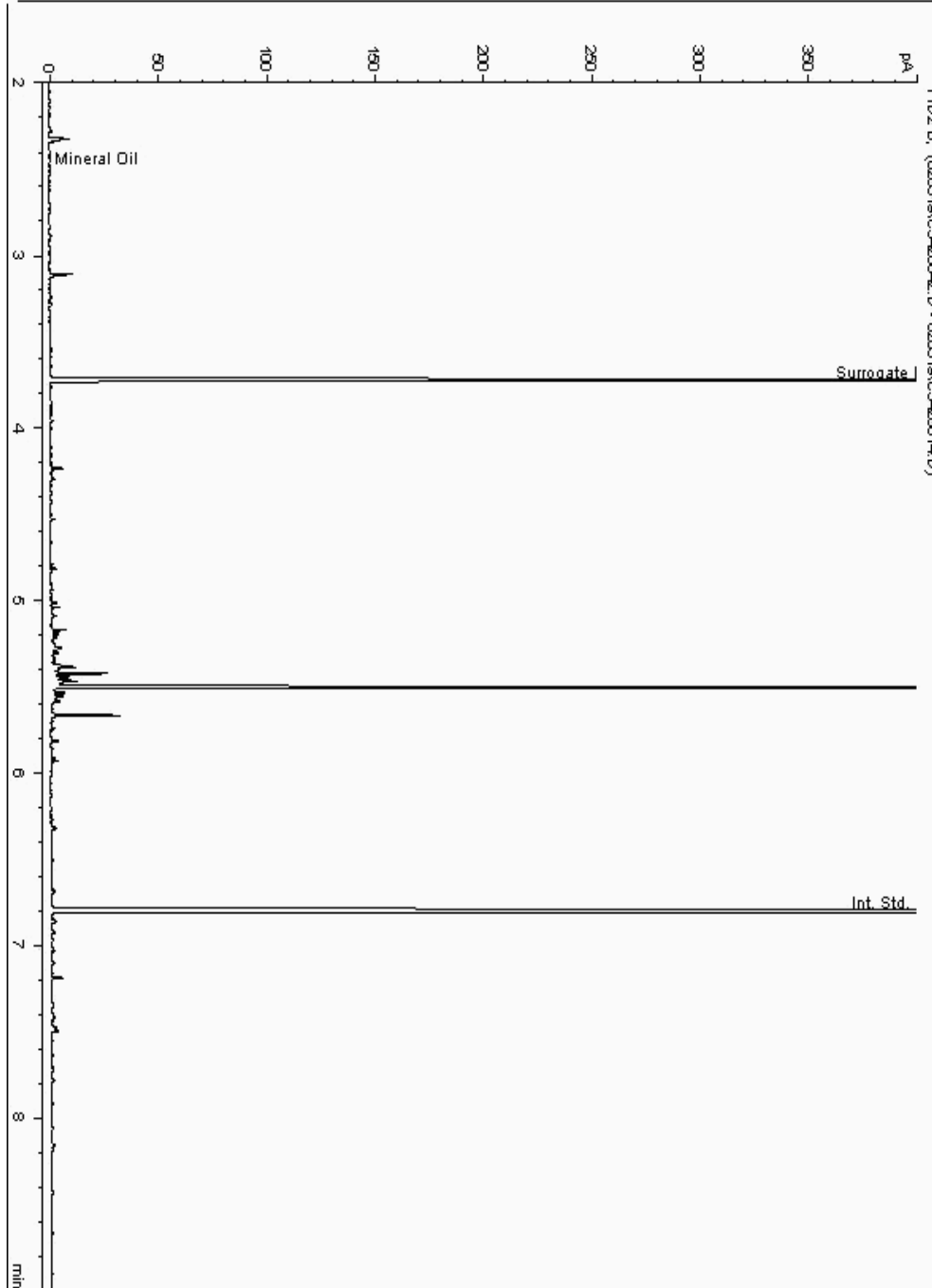
Analysis: Mineral Oil
19265115

Sample No :
Sample ID : BH240

19,265,115 Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092208-
Date Acquired : 05/02/2019 19:18:15 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

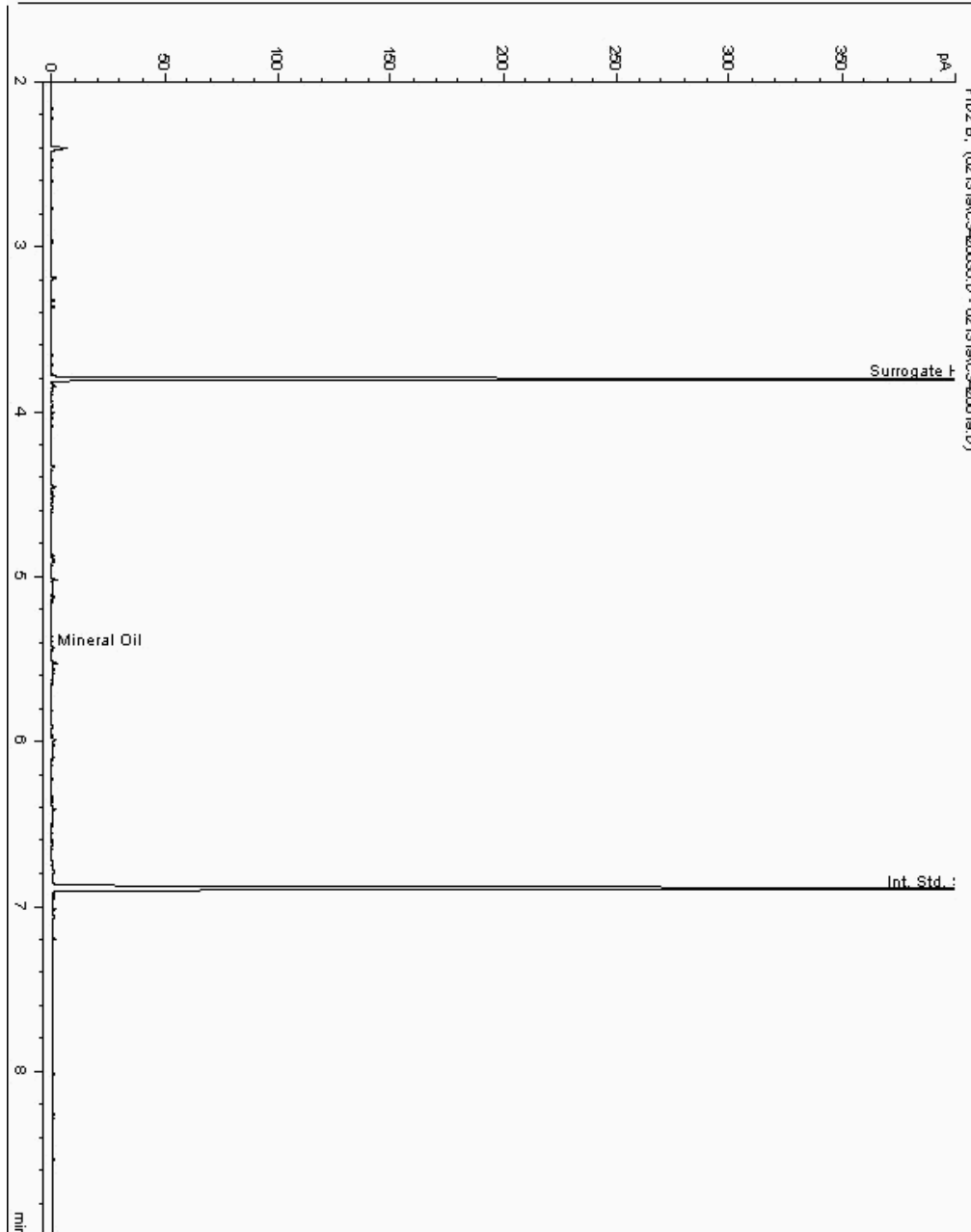
Analysis: Mineral Oil
19286156

Sample No :
Sample ID : BH242

19,286,156Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110646-
Date Acquired : 13/02/19 19:16:17 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

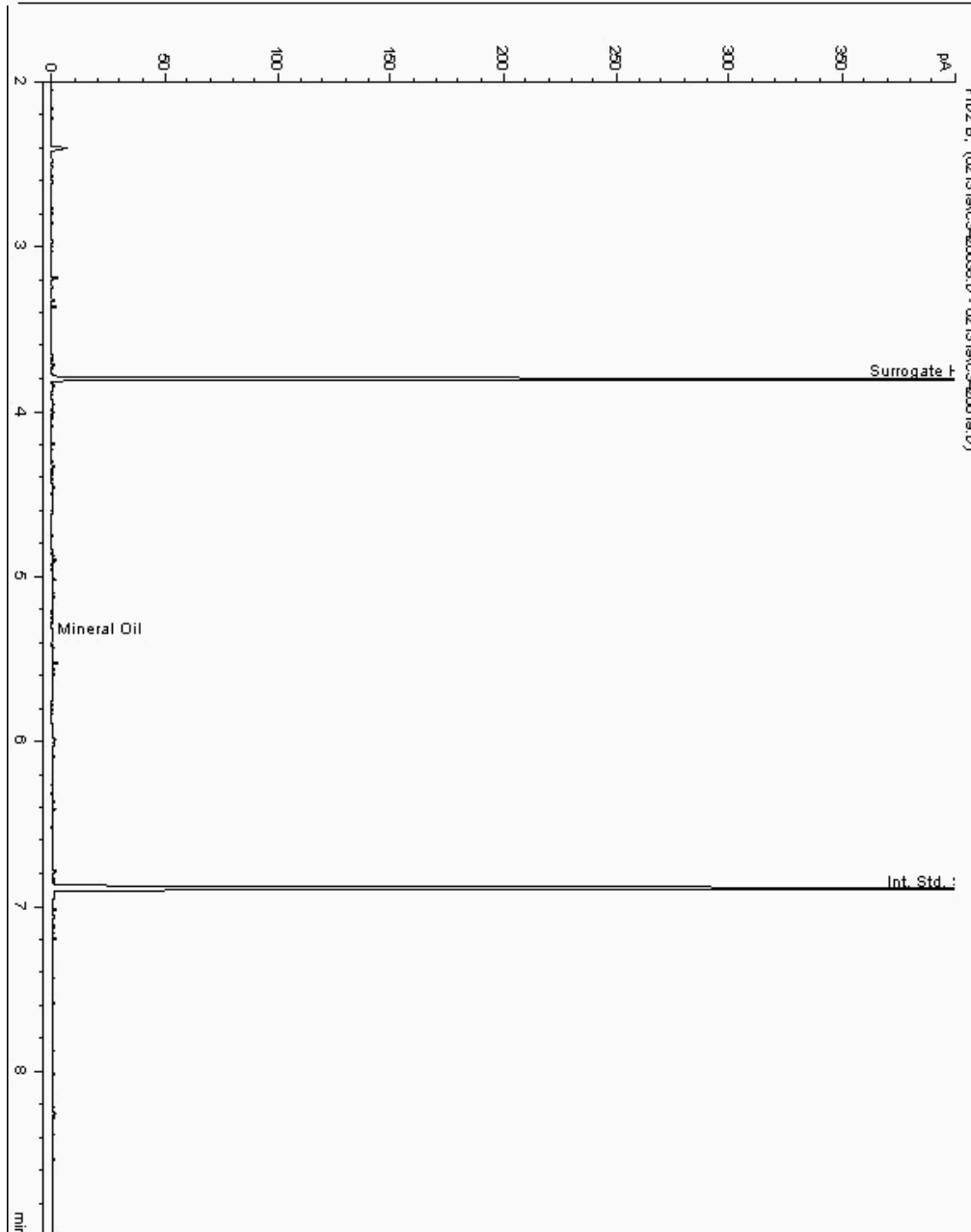
Analysis: Mineral Oil
19286449

Sample No :
Sample ID : BH242

19,286,449Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110600-
Date Acquired : 13/02/19 20:09:01 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

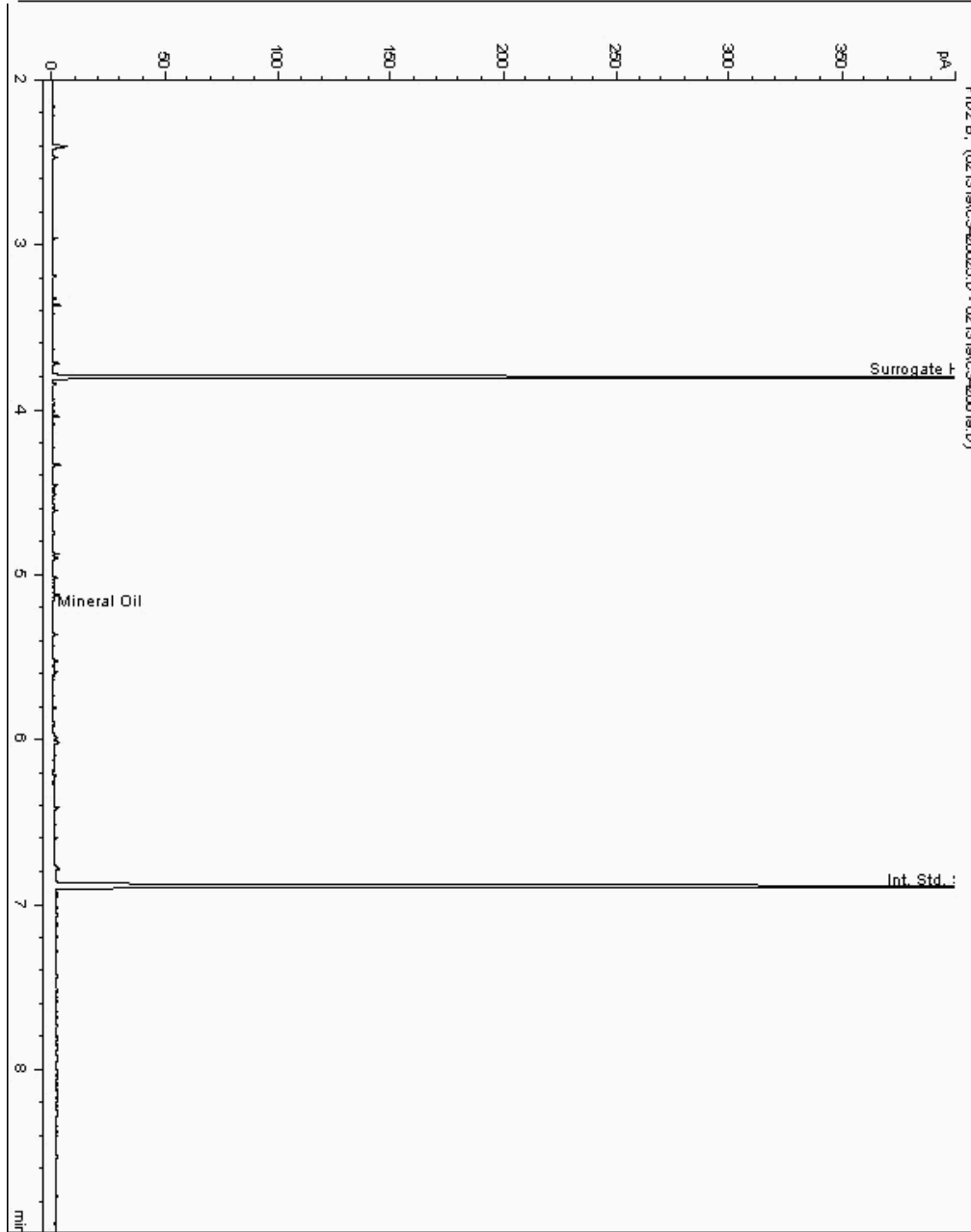
Analysis: Mineral Oil
19287199

Sample No :
Sample ID : BH242

19,287,199Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110964-
Date Acquired : 13/02/19 15:54:25 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

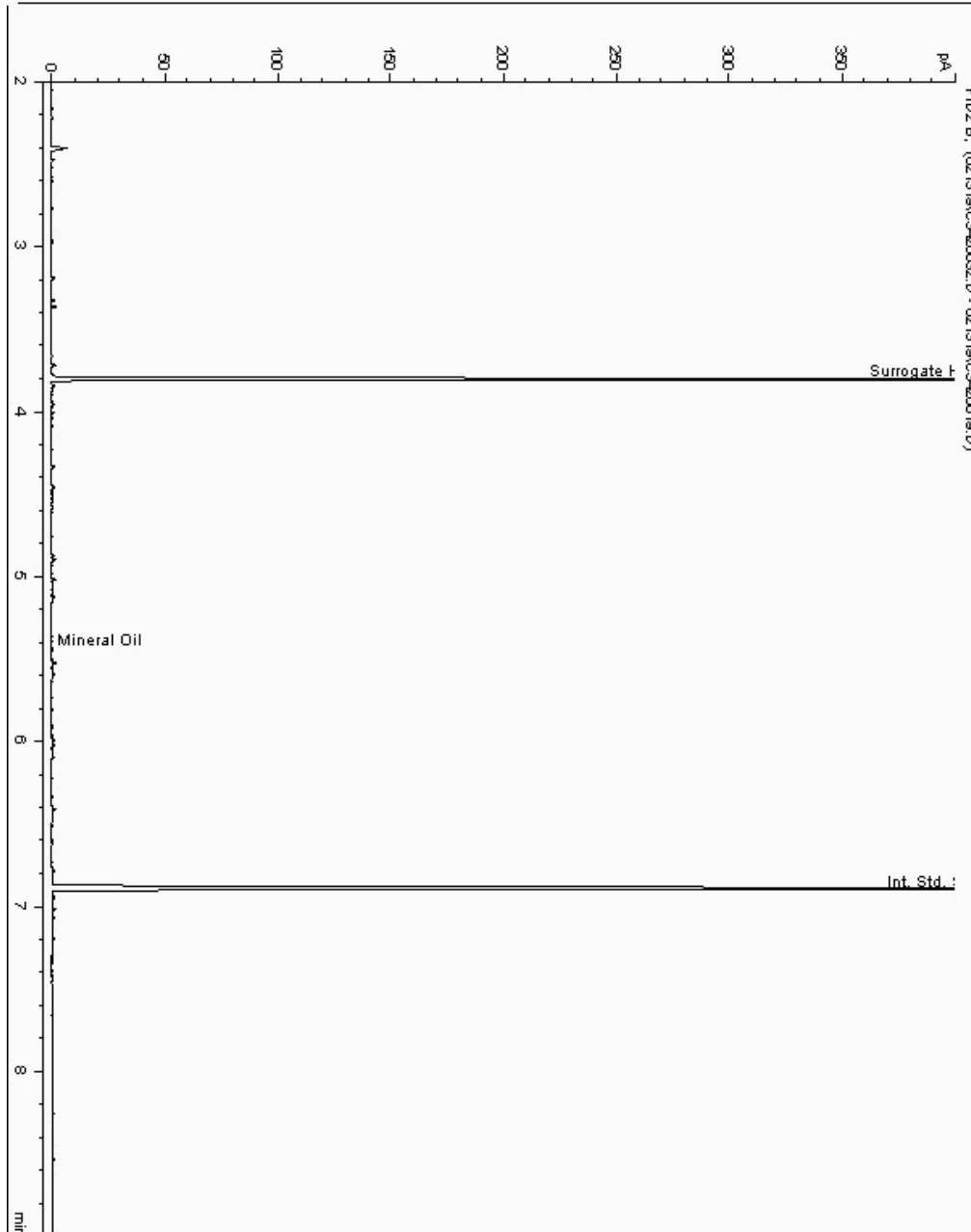
Analysis: Mineral Oil
19312119

Sample No :
Sample ID : BH242

19,312,119 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110783-
Date Acquired : 13/02/19 18:16:09 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

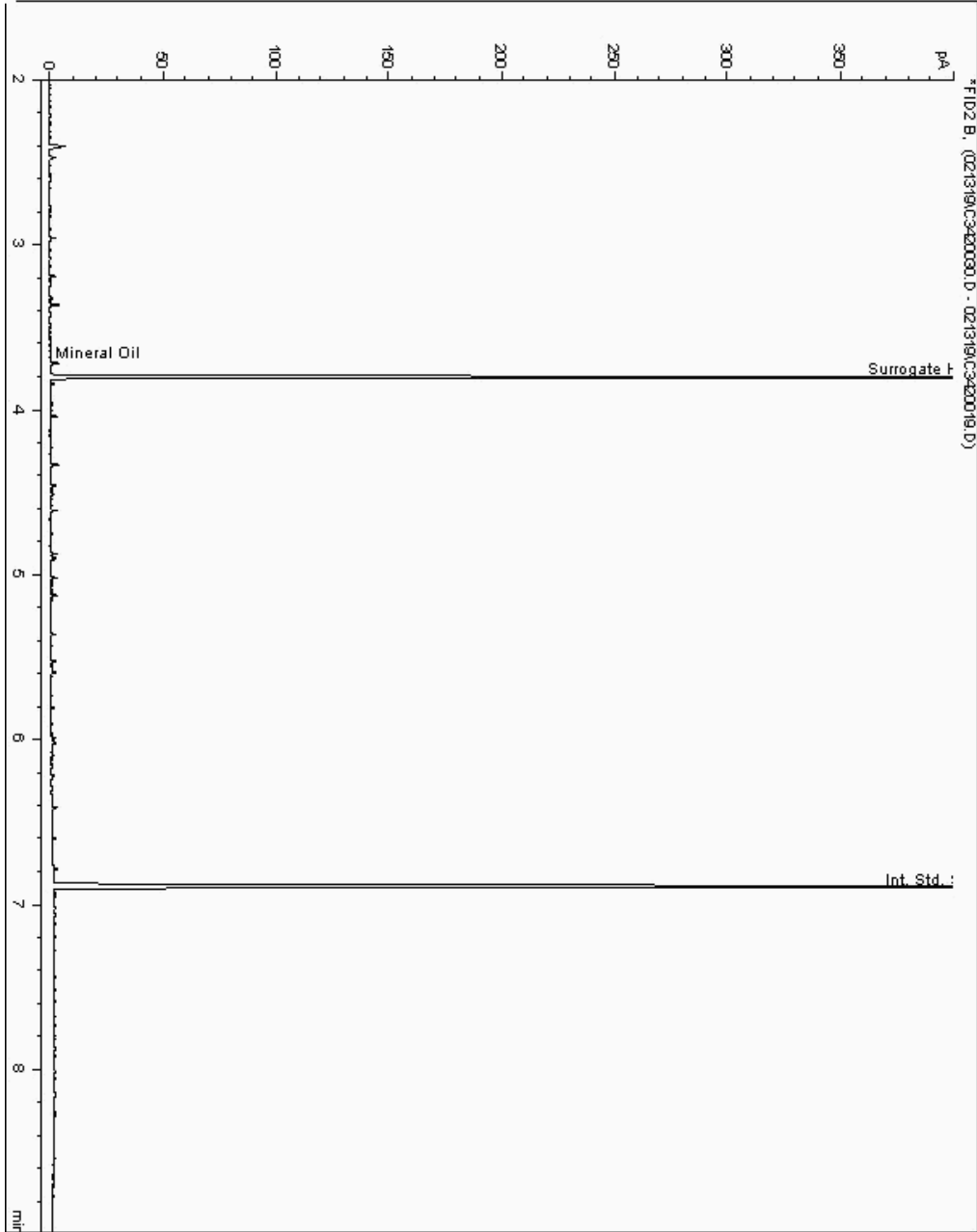
Analysis: Mineral Oil
19312271

Sample No :
Sample ID : BH242

19,312,271 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110916-
Date Acquired : 13/02/19 17:35:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

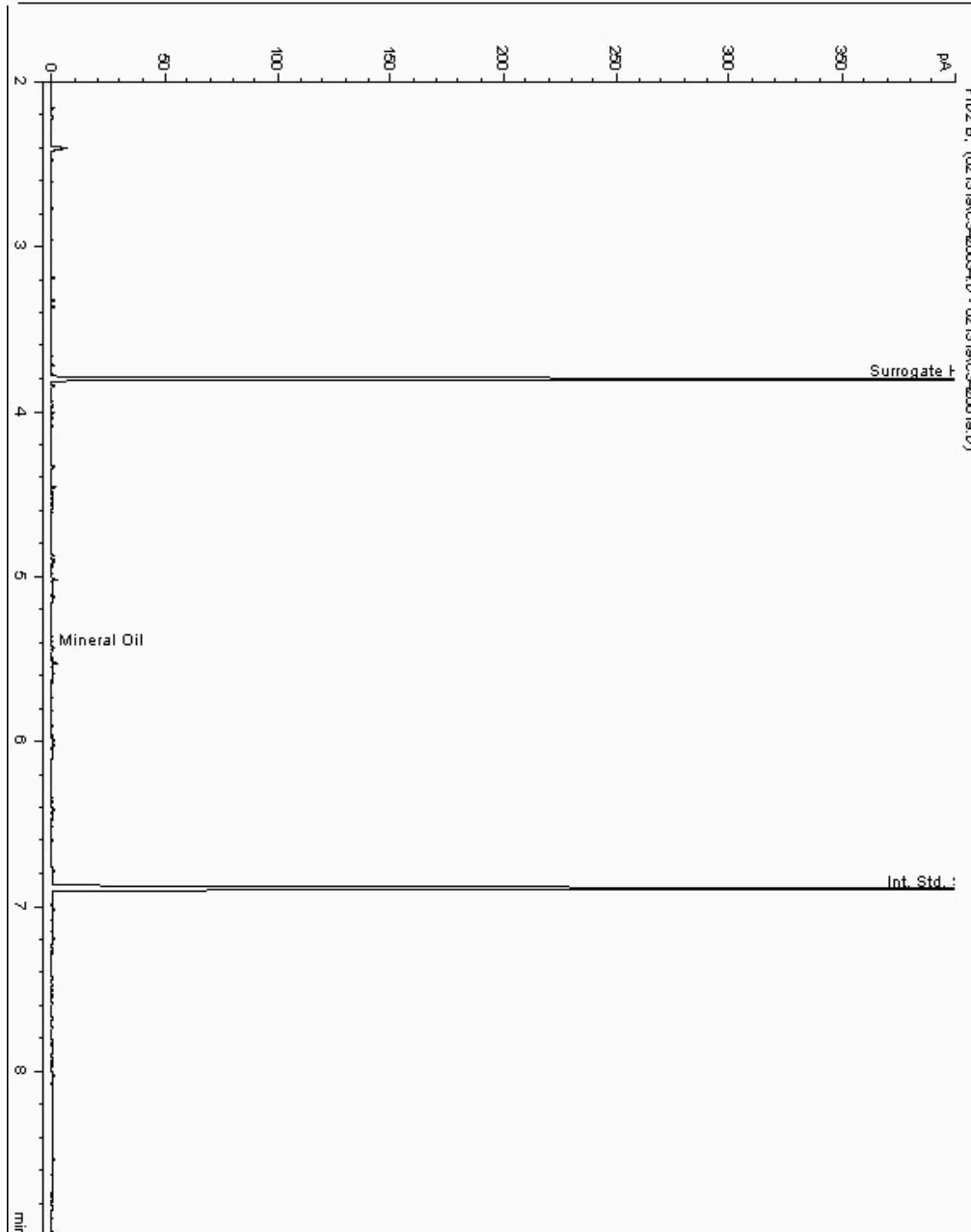
Analysis: Mineral Oil
19312343

Sample No :
Sample ID : BH242

19,312,343Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110691-
Date Acquired : 13/02/19 18:56:20 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

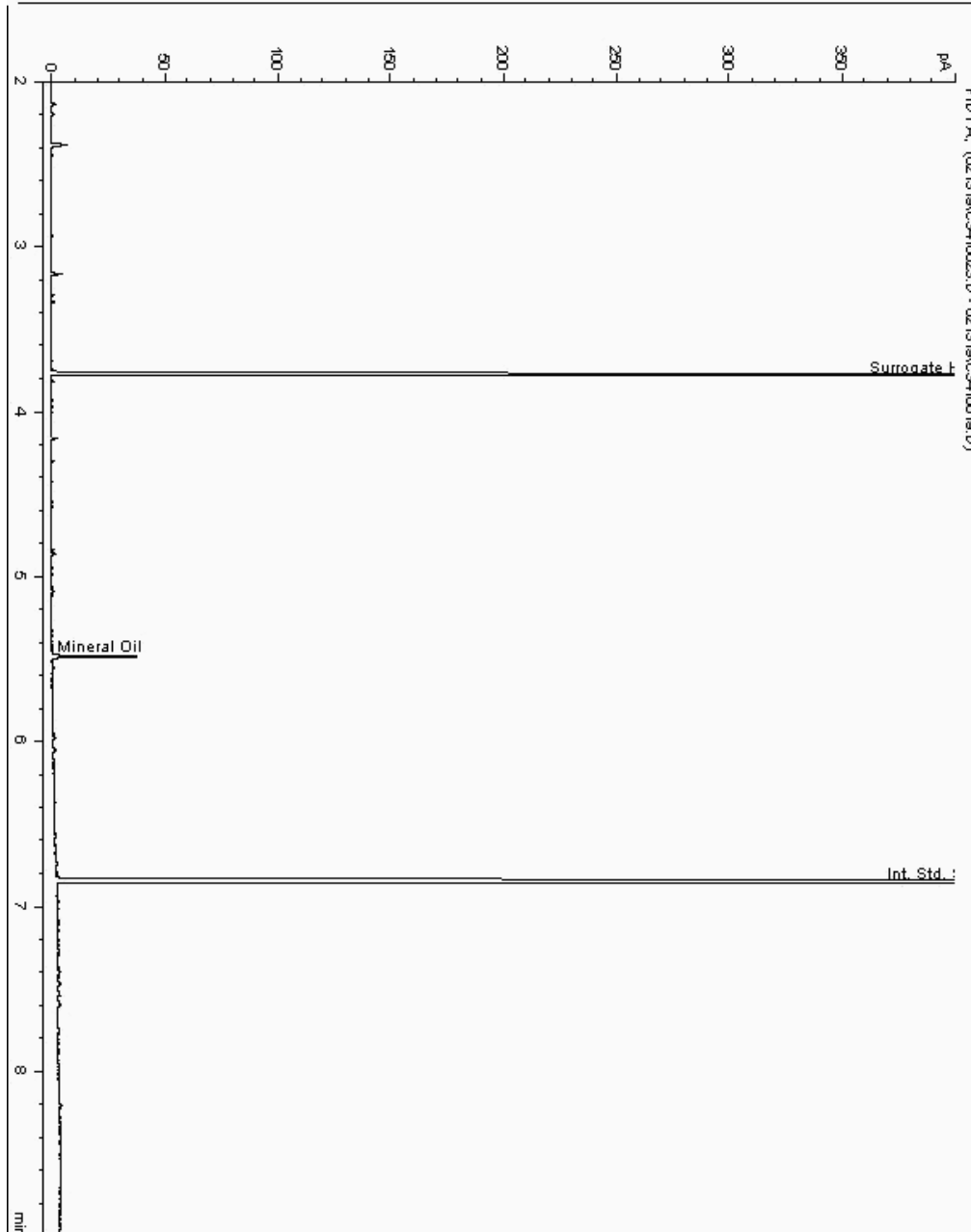
Analysis: Mineral Oil
19312404

Sample No :
Sample ID : BH242

19,312,404Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110001-
Date Acquired : 13/02/19 15:22:07 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

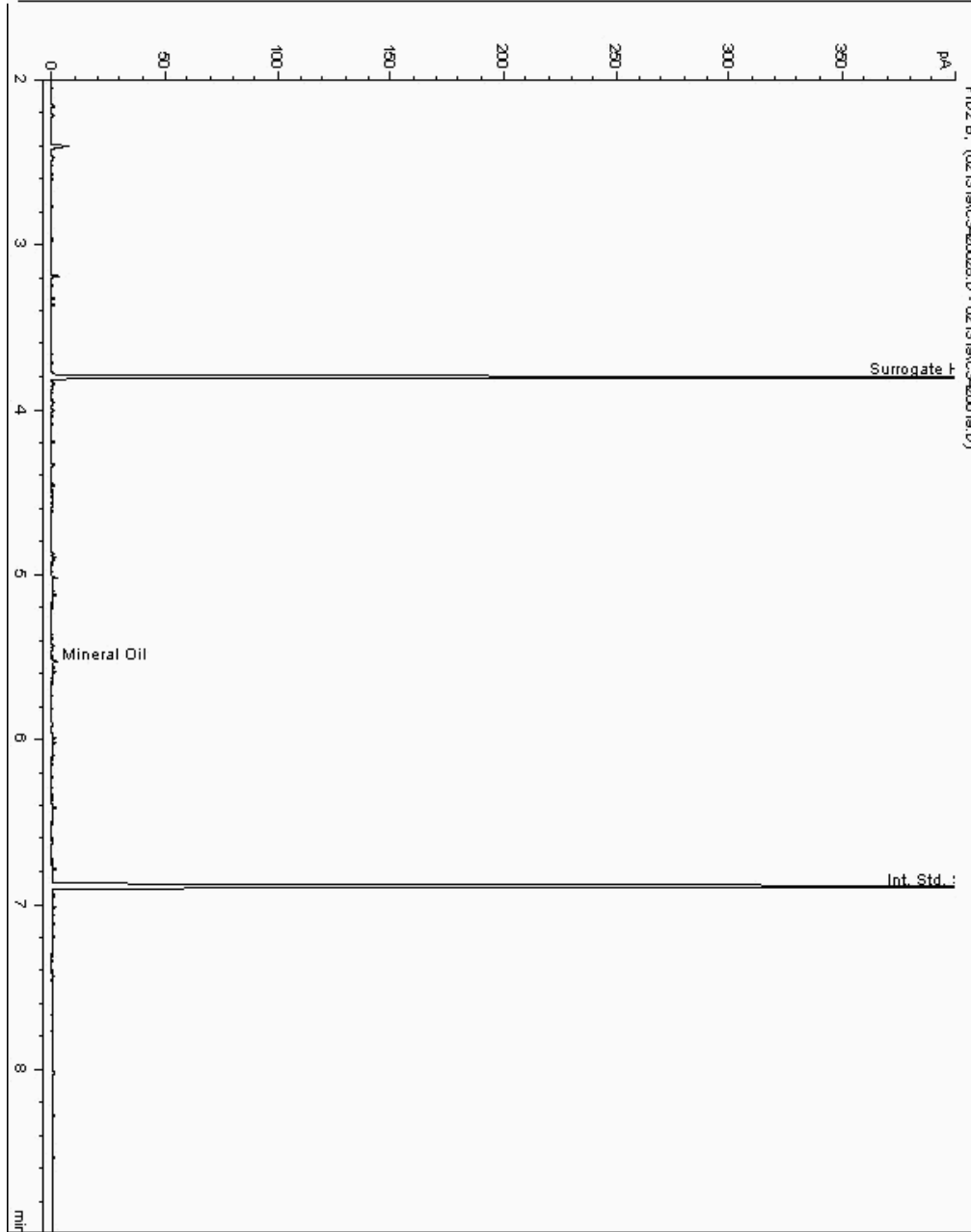
Analysis: Mineral Oil
19312443

Sample No :
Sample ID : BH242

19,312,443Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110736-
Date Acquired : 13/02/19 16:55:21 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

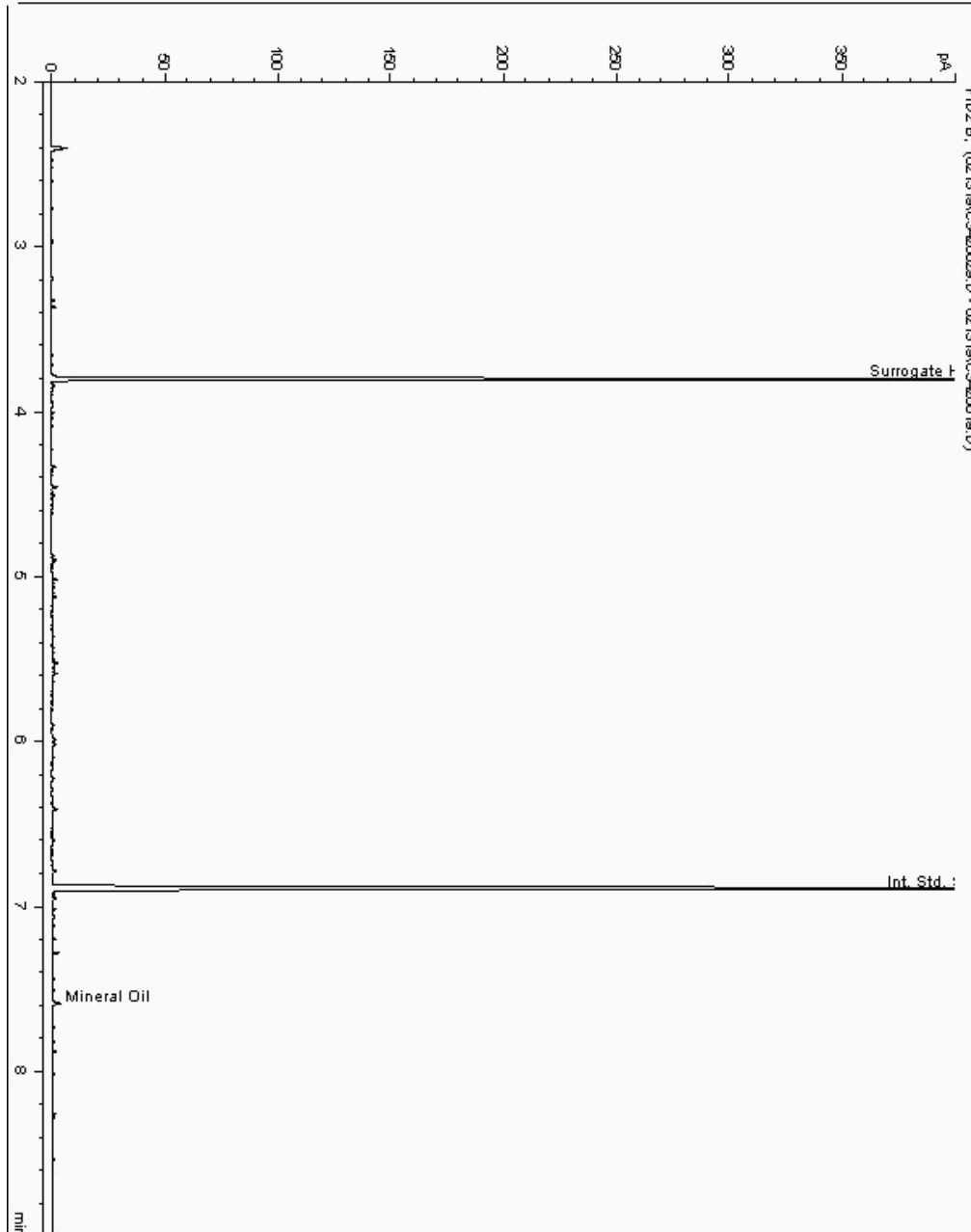
Analysis: Mineral Oil
19312832

Sample No :
Sample ID : BH242

19,312,832Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110158-
Date Acquired : 13/02/19 17:15:30 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

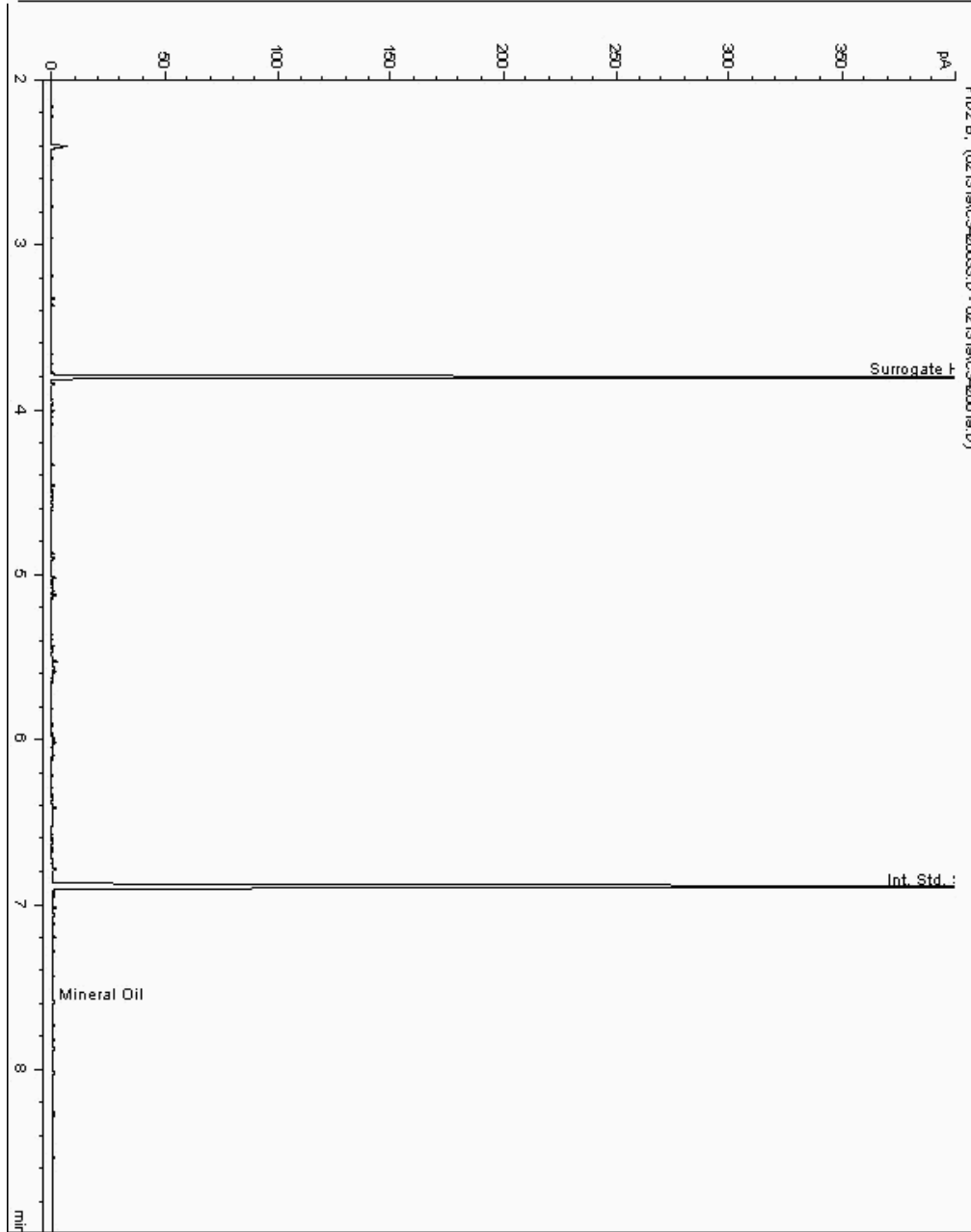
Analysis: Mineral Oil
19312886

Sample No :
Sample ID : BH242

19,312,886Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110237-
Date Acquired : 13/02/19 18:36:23 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

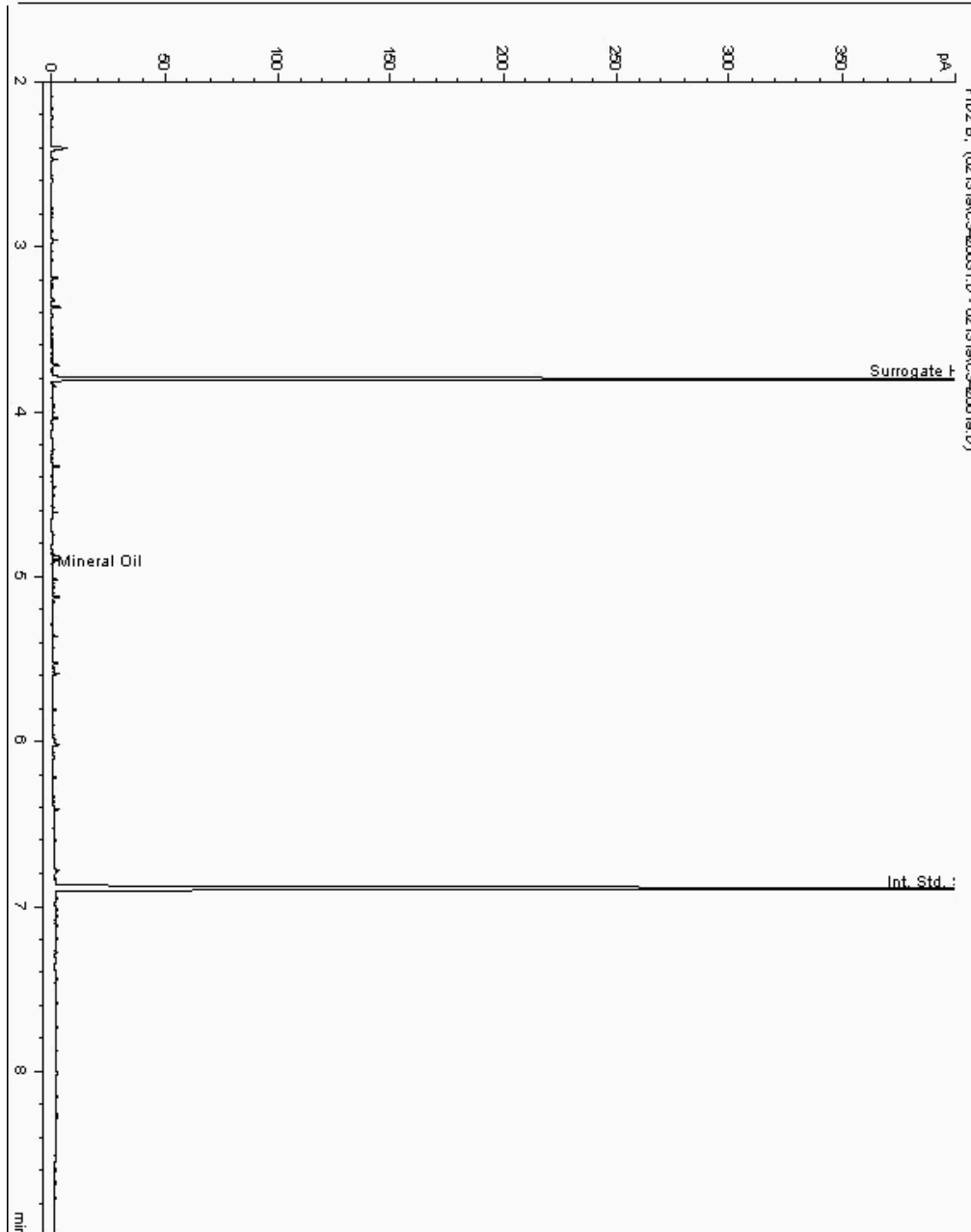
Analysis: Mineral Oil
19313036

Sample No :
Sample ID : BH242

19,313,036Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18110856-
Date Acquired : 13/02/19 17:56:01 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

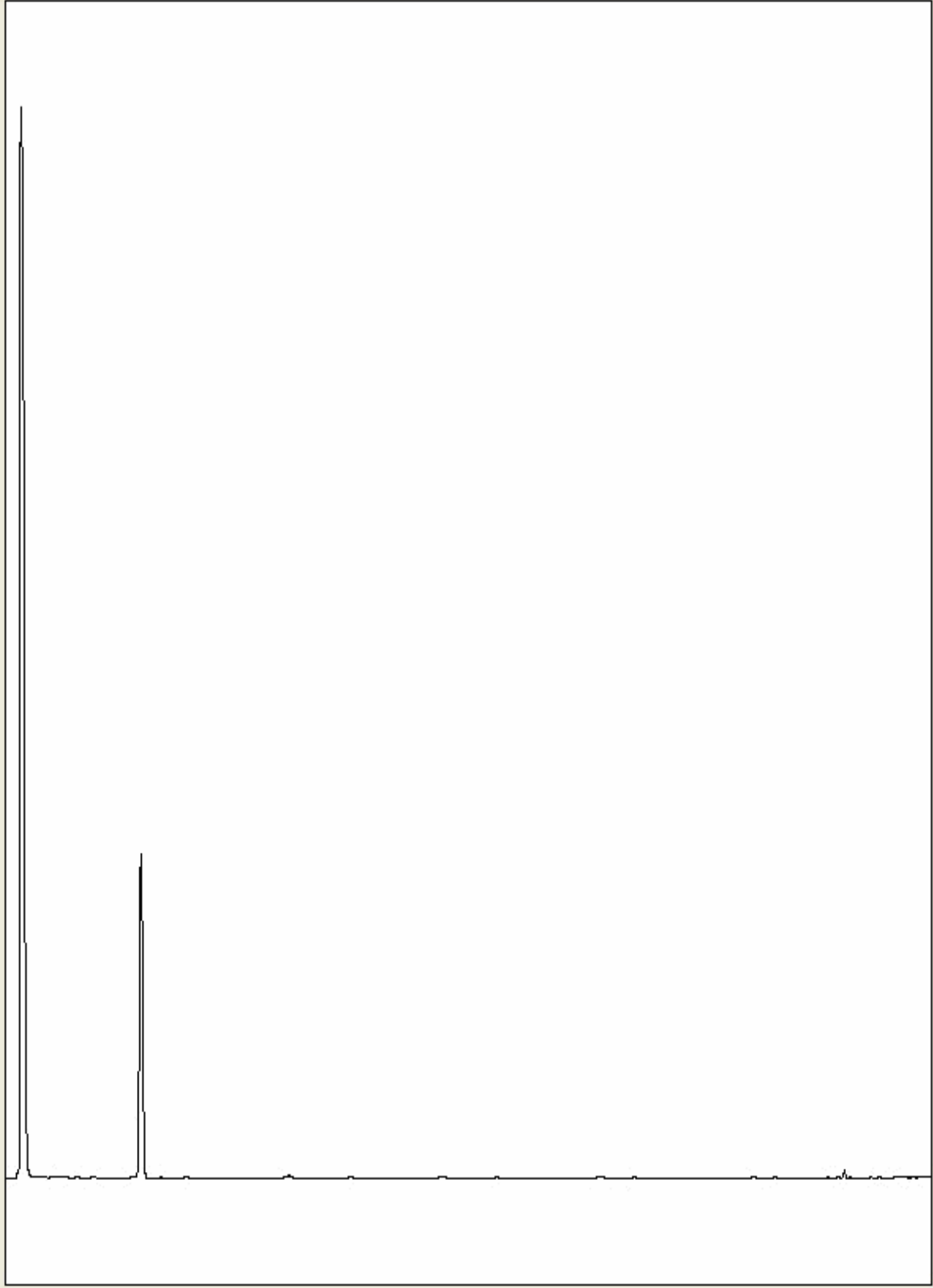
Chromatogram

Analysis: GRO by GC-FID (S)
19284975

Sample No :
Sample ID : BH240

19,284,975 **Depth :** 11.00 - 12.00

19284975_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19285166

Sample No :
Sample ID : BH242

19,285,166 **Depth :** 3.00 - 4.00

19285166_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

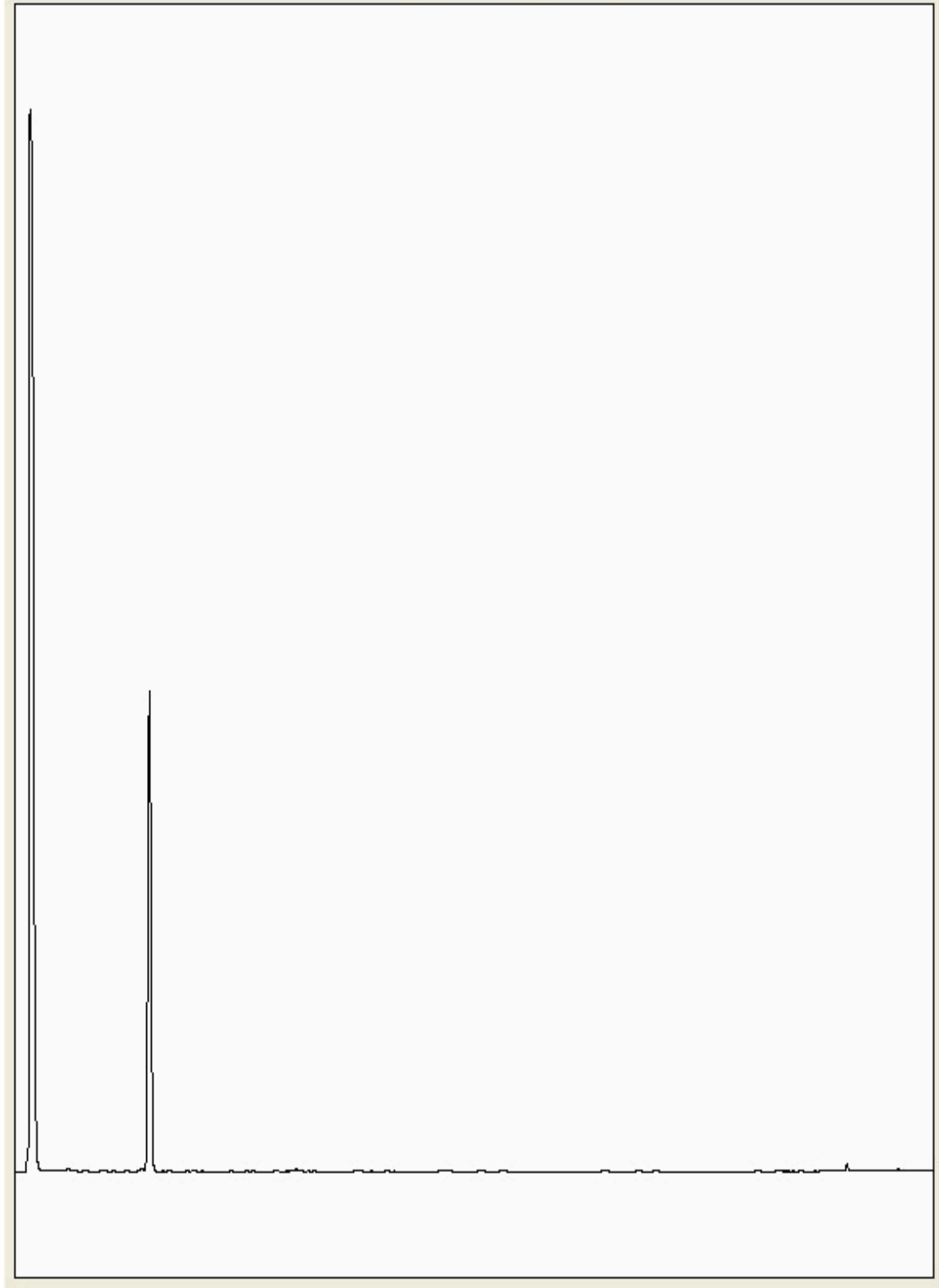
Chromatogram

Analysis: GRO by GC-FID (S)
19285294

Sample No :
Sample ID : BH242

19,285,294**Depth :** 5.00 - 6.00

19285294_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

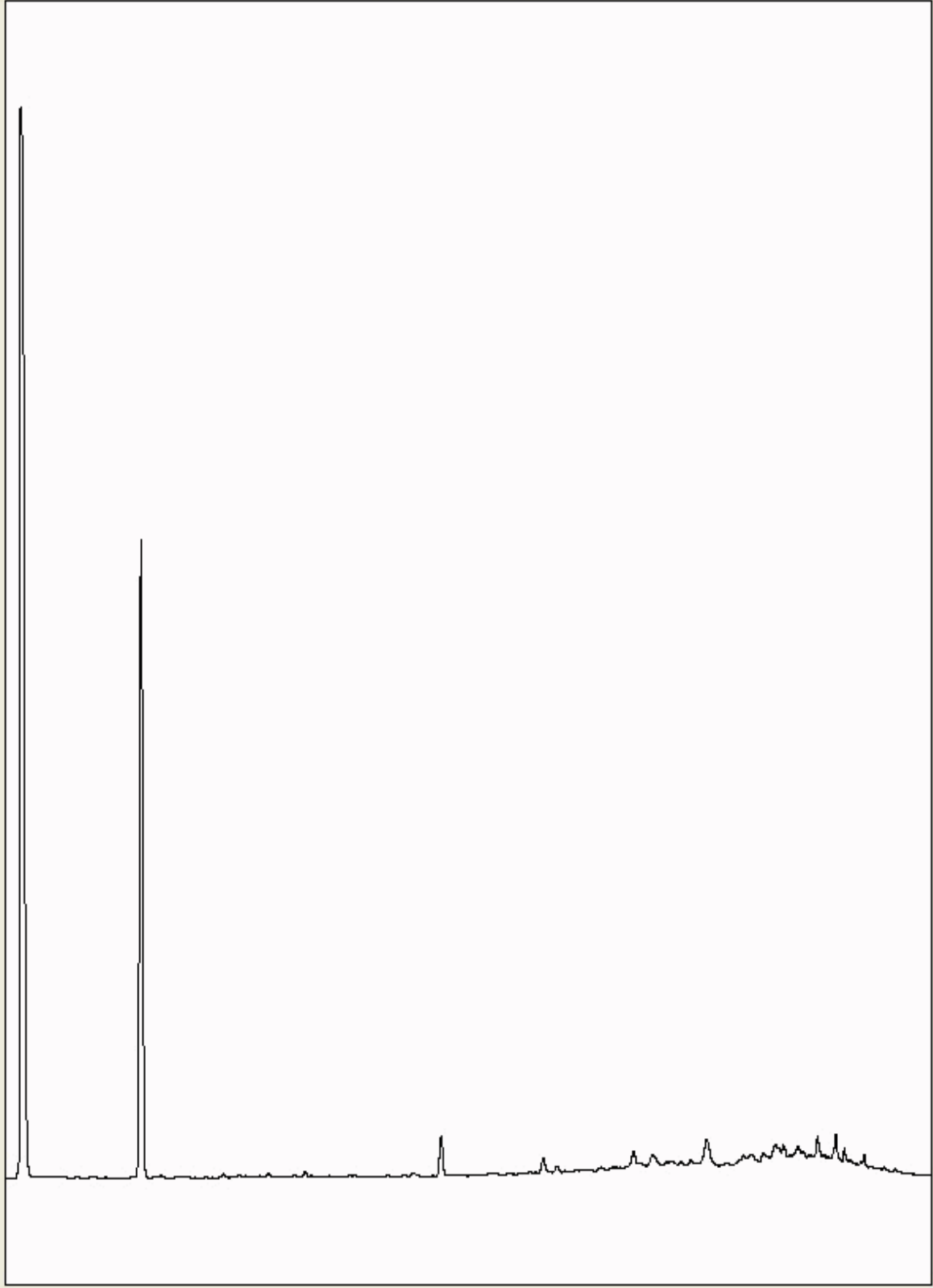
Chromatogram

Analysis: GRO by GC-FID (S)
19285395

Sample No :
Sample ID : BH239

19,285,395Depth :0.00 - 0.50

19285395_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

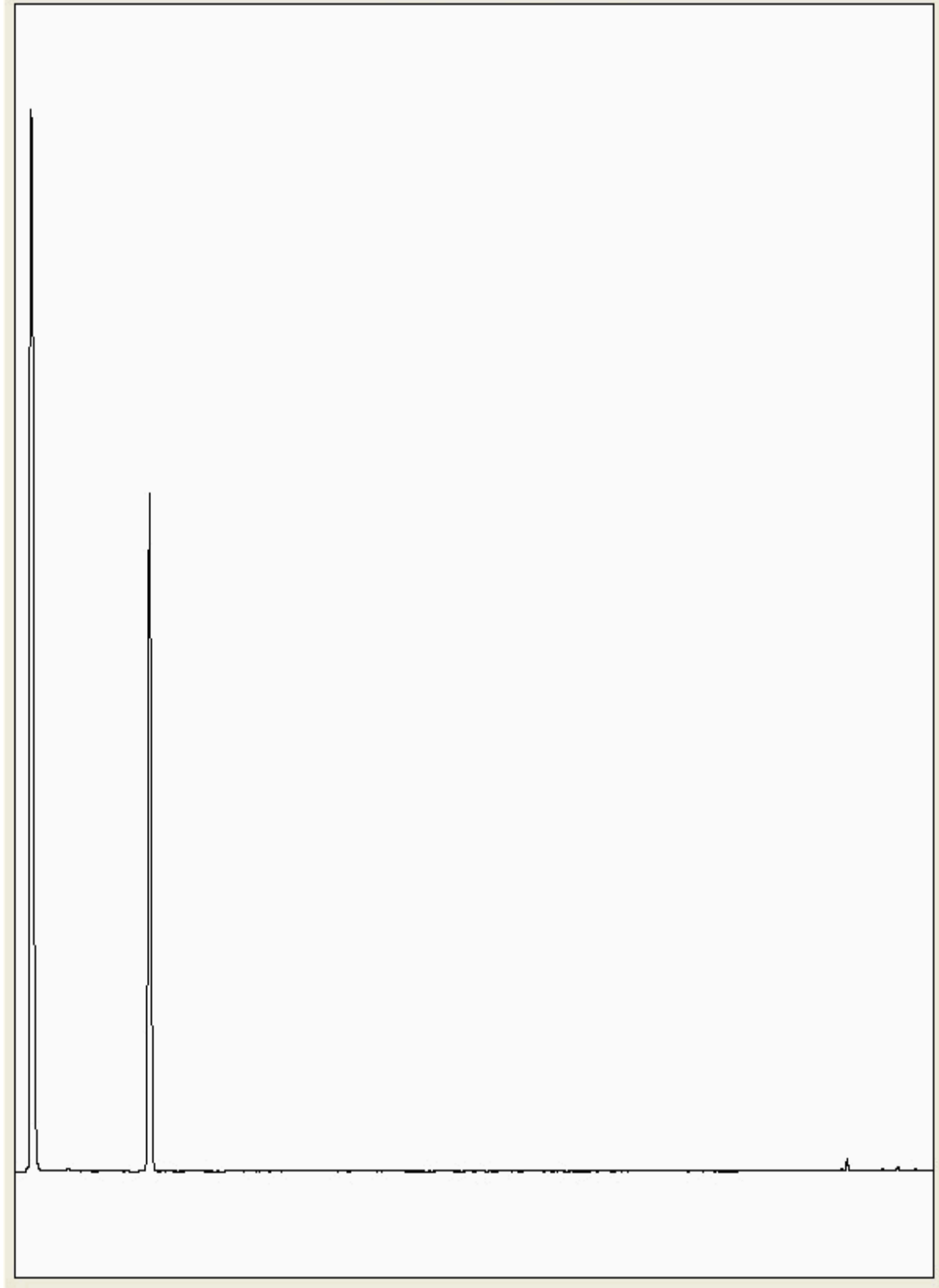
Chromatogram

Analysis: GRO by GC-FID (S)
19285470

Sample No :
Sample ID : BH242

19,285,470 **Depth :** 1.00 - 2.00

19285470_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

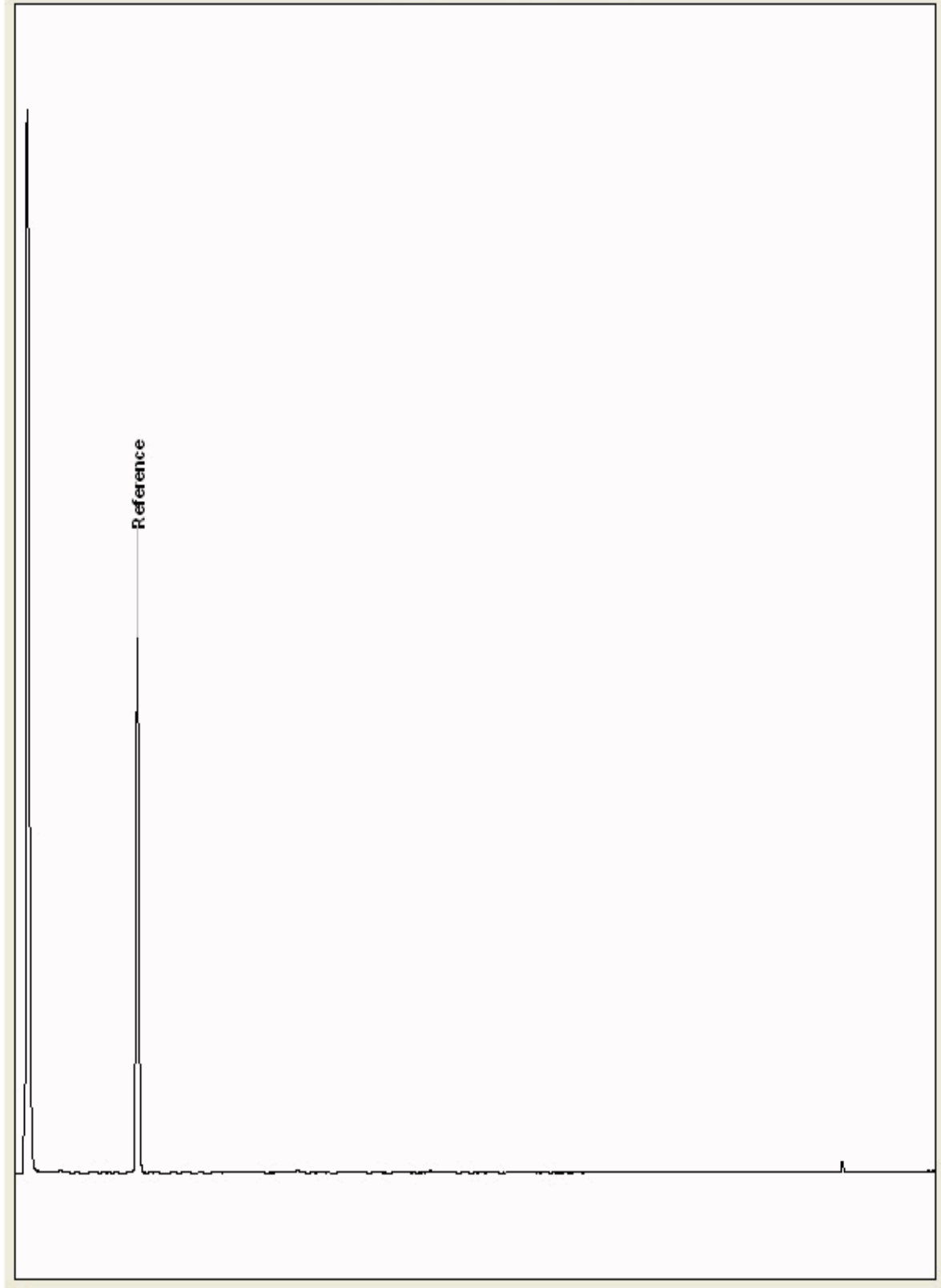
Chromatogram

Analysis: GRO by GC-FID (S)
19288031

Sample No :
Sample ID : BH239

19,288,031 **Depth :** 3.00 - 4.00

19288031_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

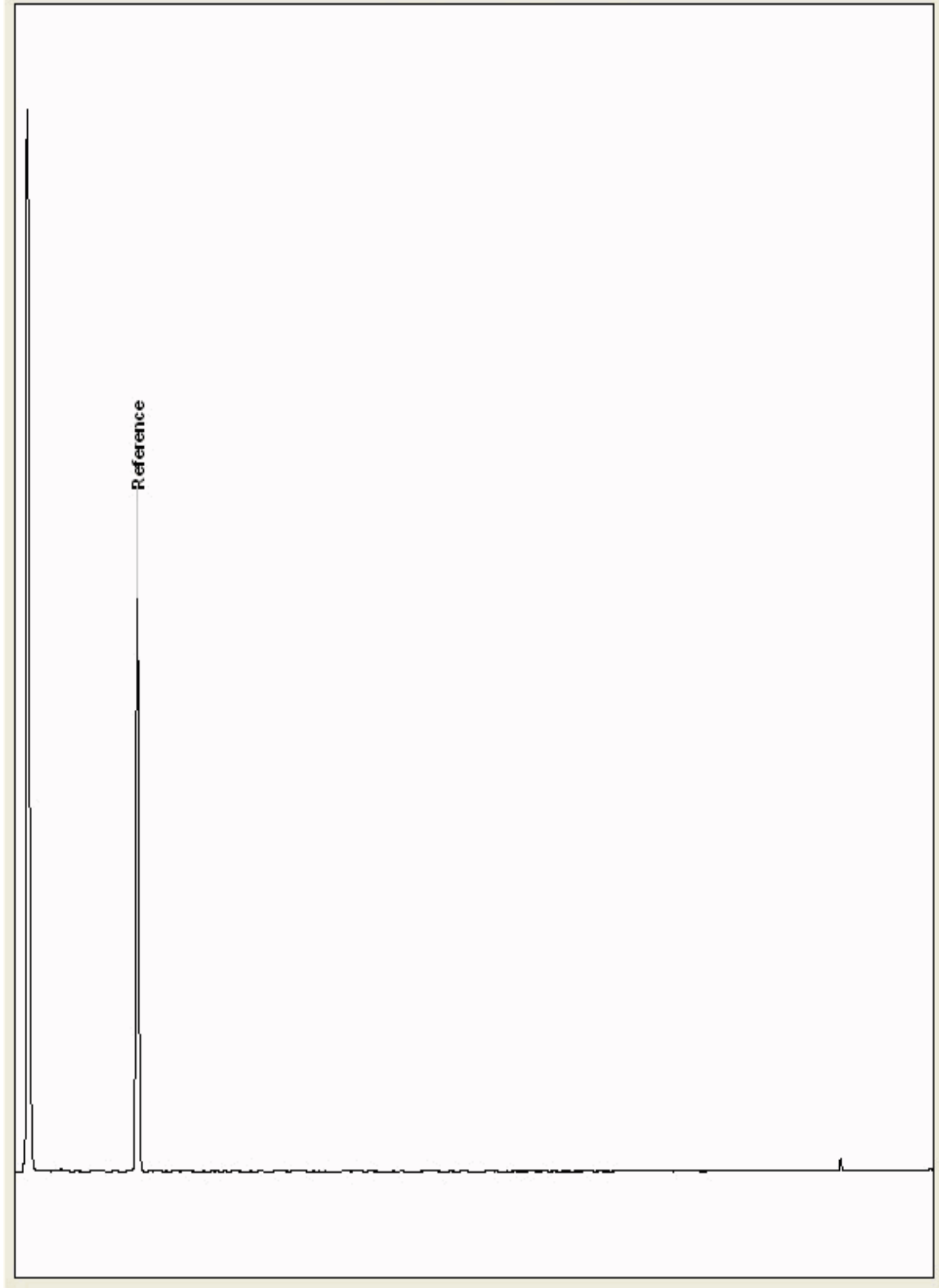
Chromatogram

Analysis: GRO by GC-FID (S)
19288036

Sample No :
Sample ID : BH239

19,288,036Depth :8.00 - 9.00

19288036_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

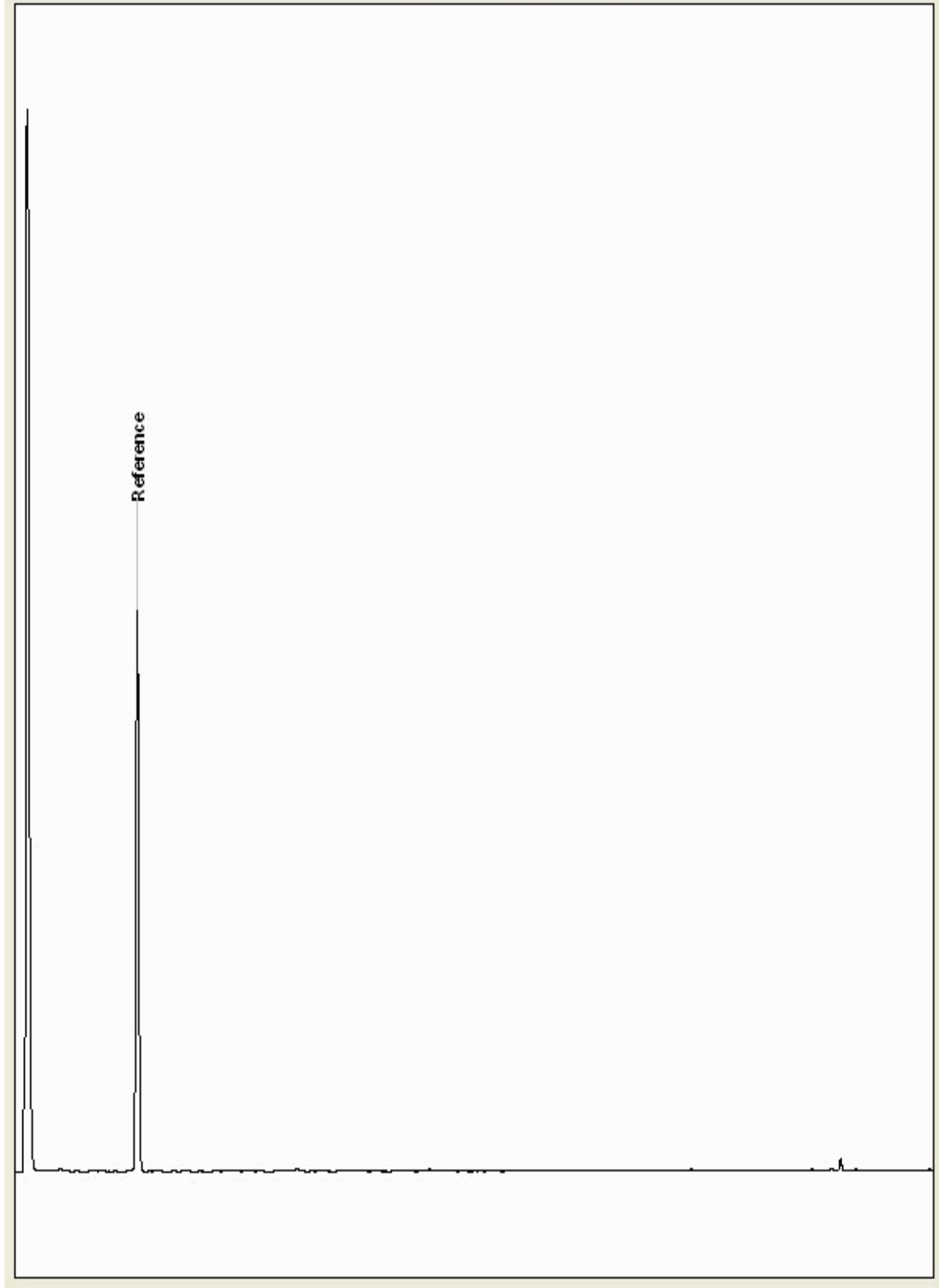
Chromatogram

Analysis: GRO by GC-FID (S)
19288043

Sample No :
Sample ID : BH239

19,288,043Depth :5.00 - 6.00

19288043_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

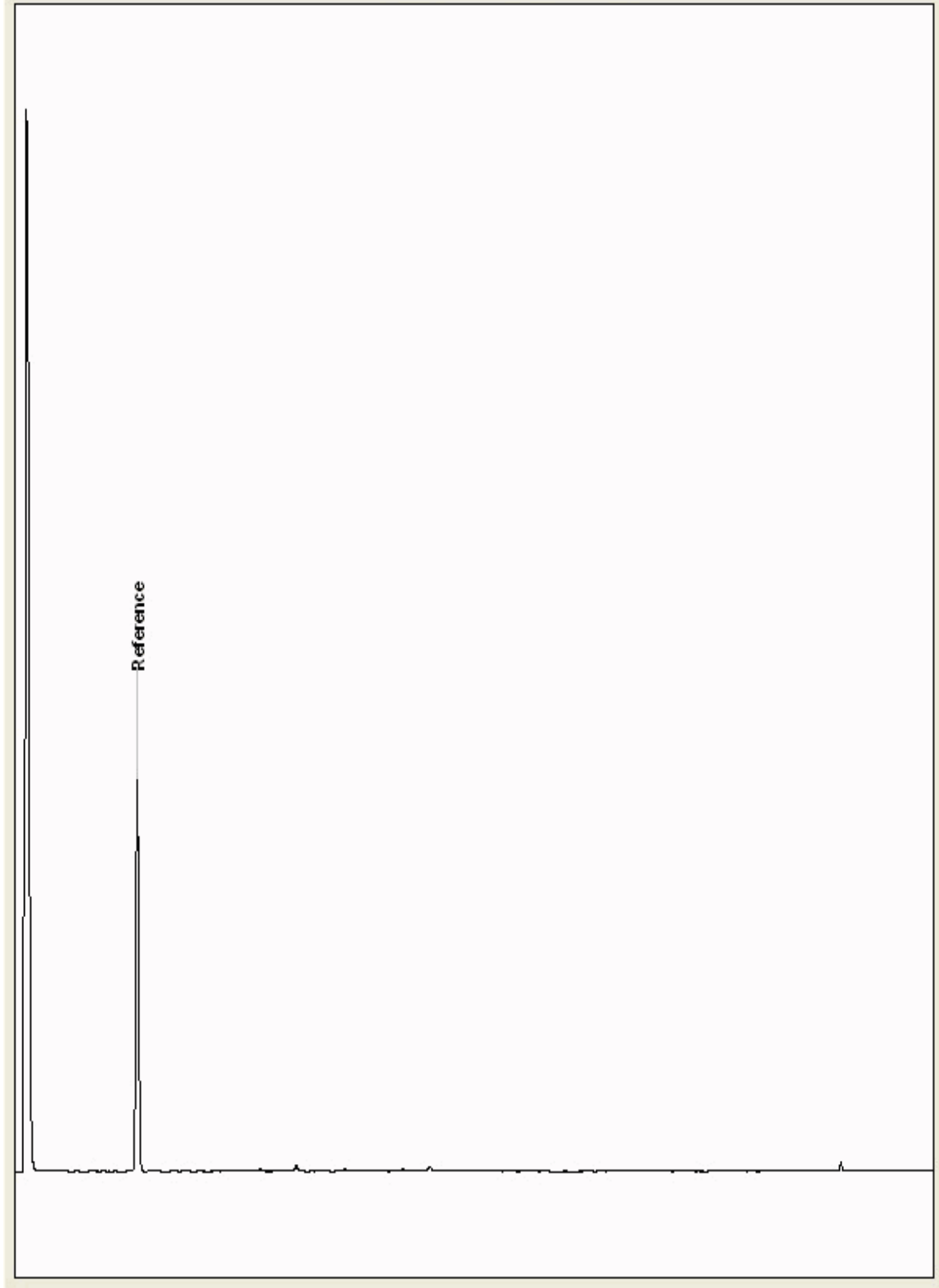
Chromatogram

Analysis: GRO by GC-FID (S)
19288049

Sample No :
Sample ID : BH239

19,288,049Depth :2.00 - 3.00

19288049_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

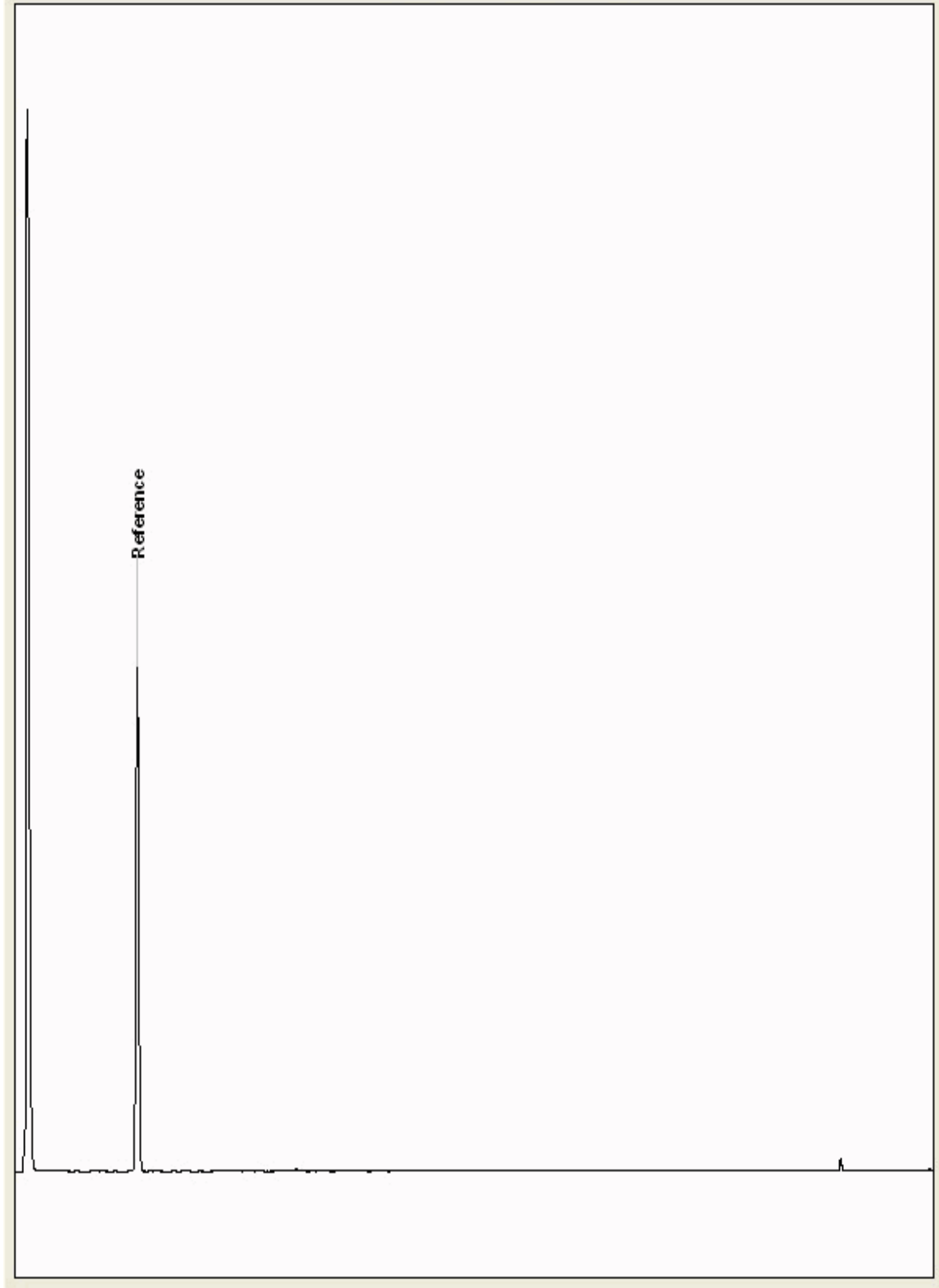
Chromatogram

Analysis: GRO by GC-FID (S)
19288052

Sample No :
Sample ID : BH239

19,288,052Depth :4.00 - 5.00

19288052_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

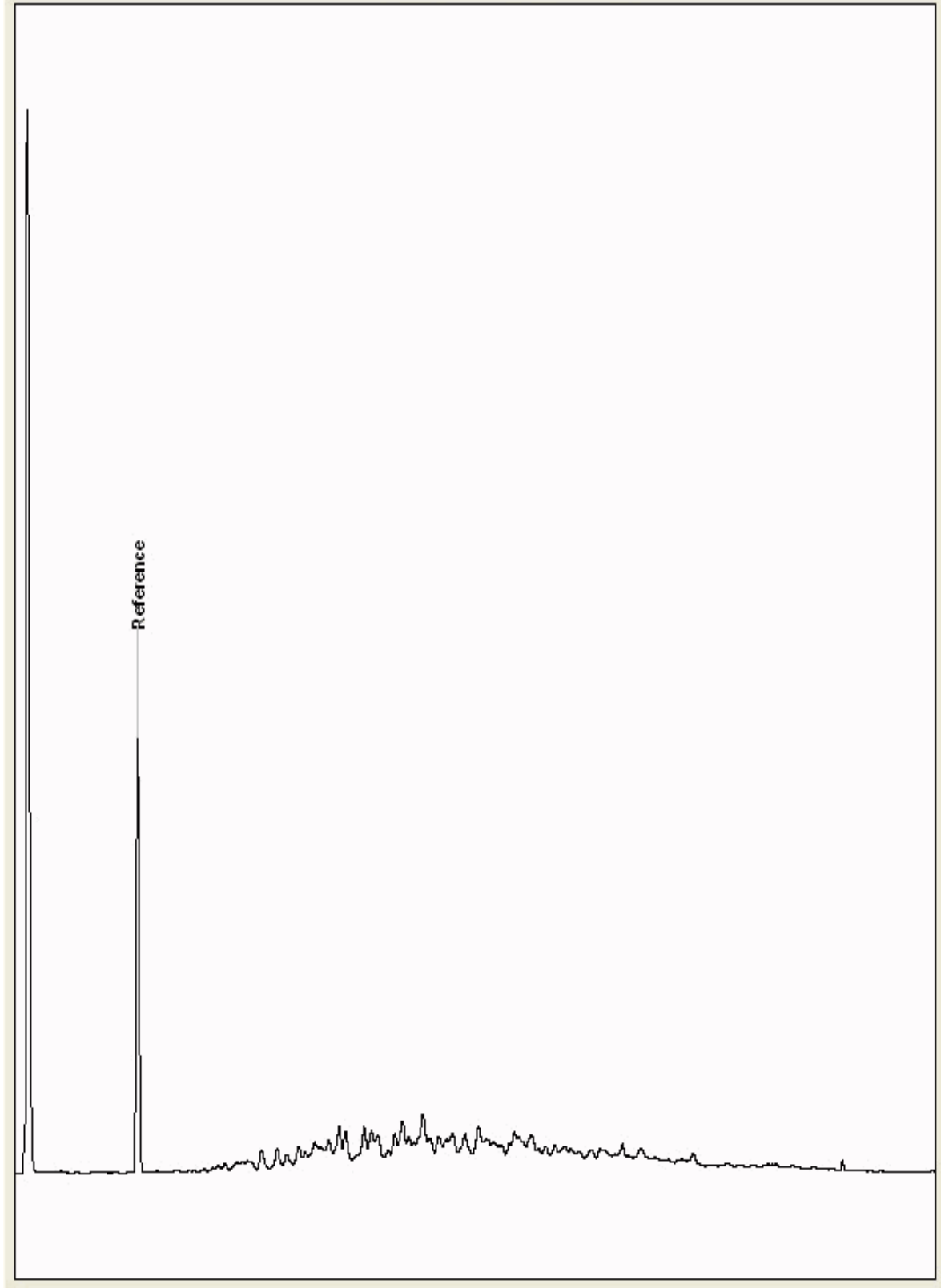
Chromatogram

Analysis: GRO by GC-FID (S)
19288059

Sample No :
Sample ID : BH240

19,288,059Depth :0.00 - 1.00

19288059_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

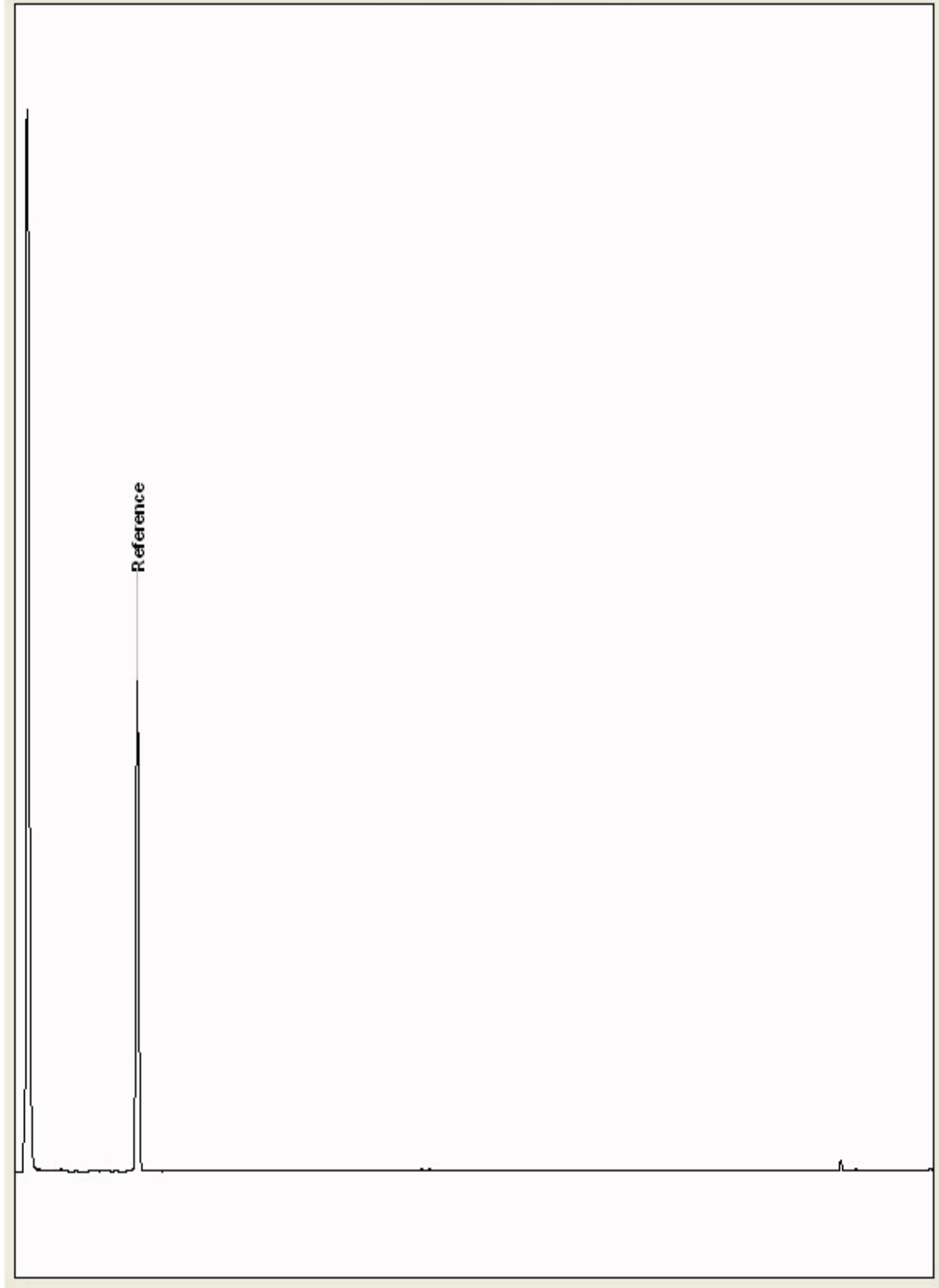
Chromatogram

Analysis: GRO by GC-FID (S)
19288066

Sample No :
Sample ID : BH240

19,288,066Depth : 1.00 - 2.00

19288066_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

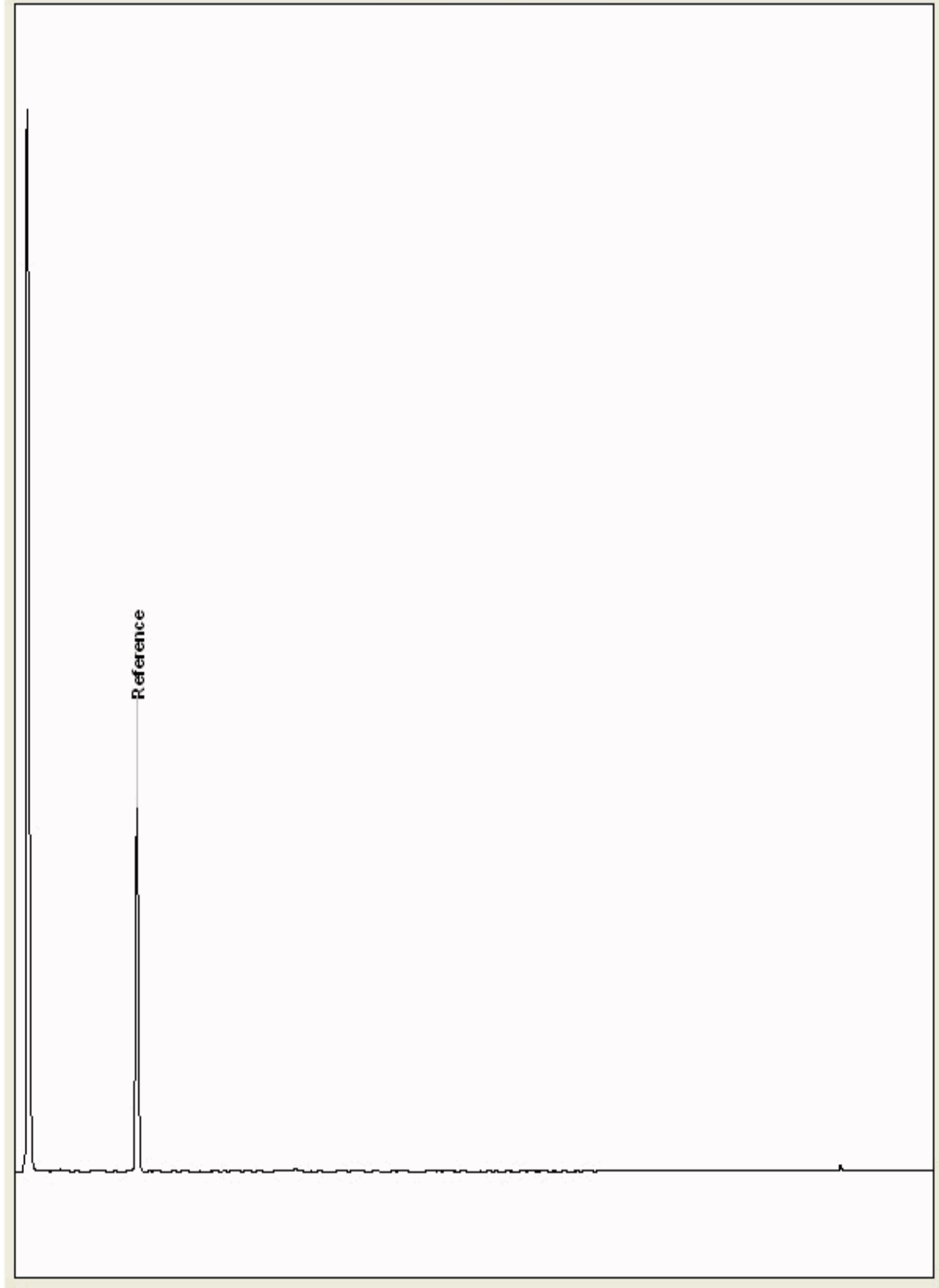
Chromatogram

Analysis: GRO by GC-FID (S)
19288094

Sample No :
Sample ID : BH239

19,288,094Depth :6.00 - 7.00

19288094_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

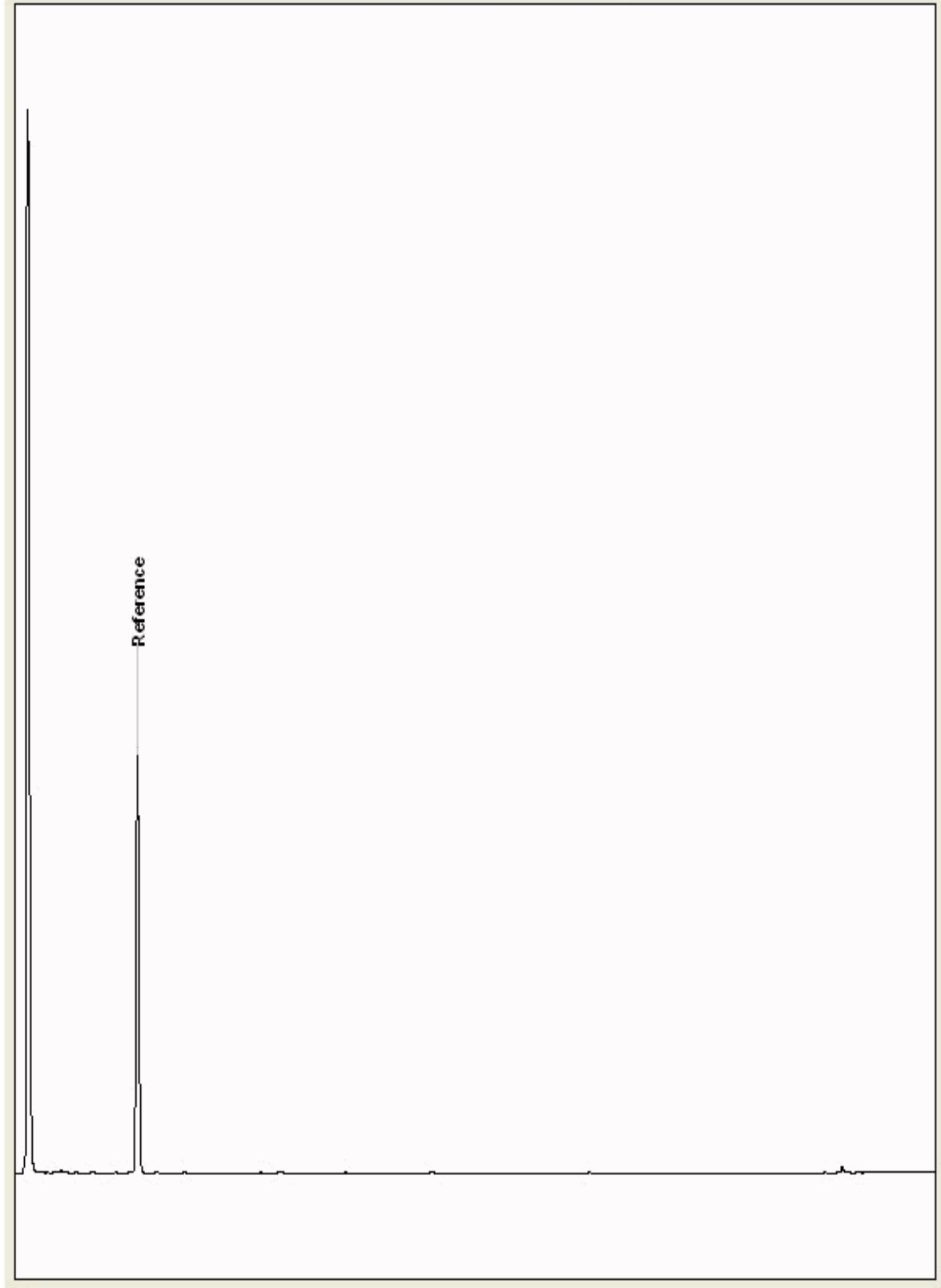
Chromatogram

Analysis: GRO by GC-FID (S)
19288096

Sample No :
Sample ID : BH242

19,288,096Depth :6.00 - 7.00

19288096_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

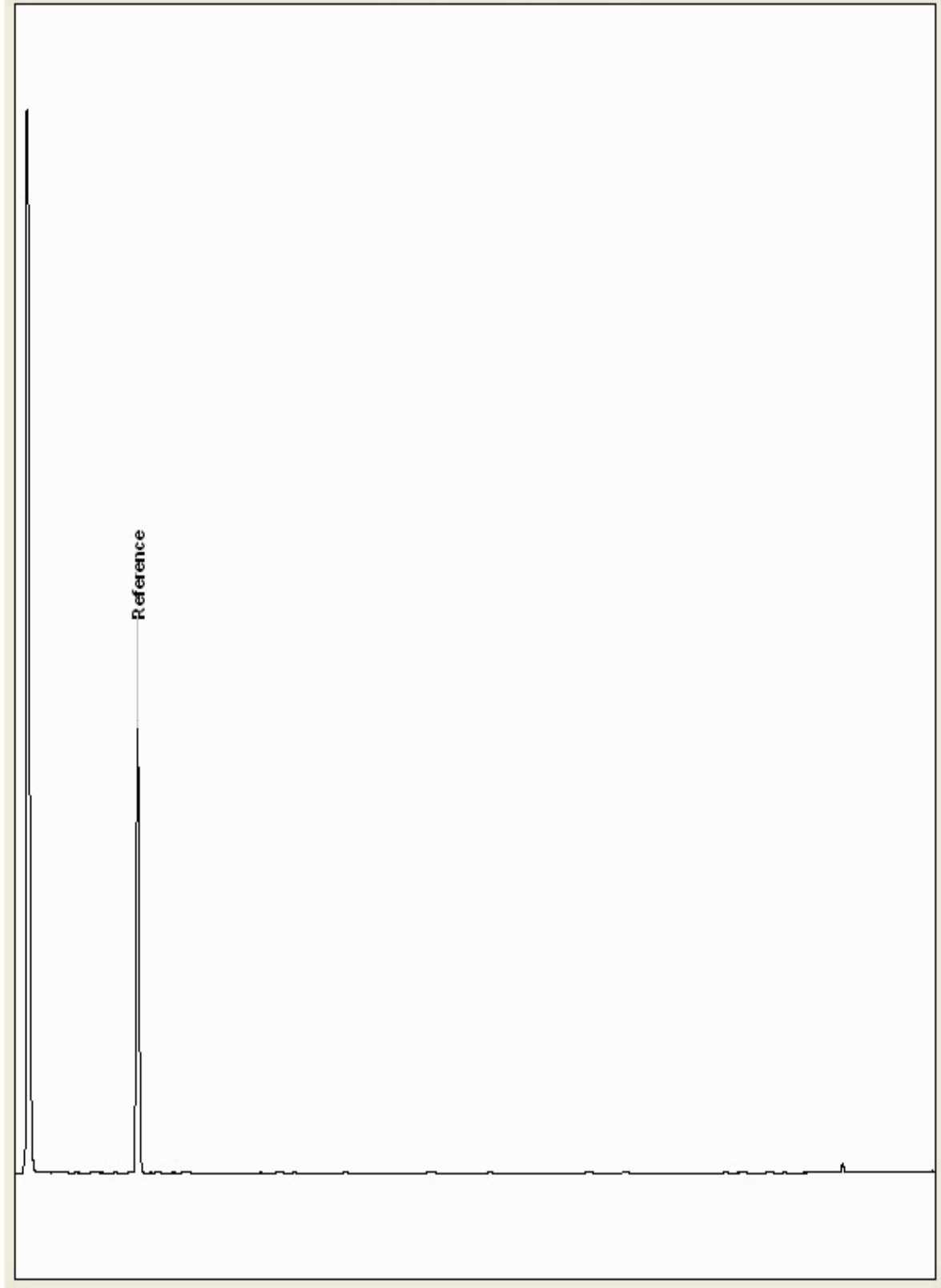
Chromatogram

Analysis: GRO by GC-FID (S)
19288100

Sample No :
Sample ID : BH242

19,288,100Depth : 10.00 - 11.00

19288100_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

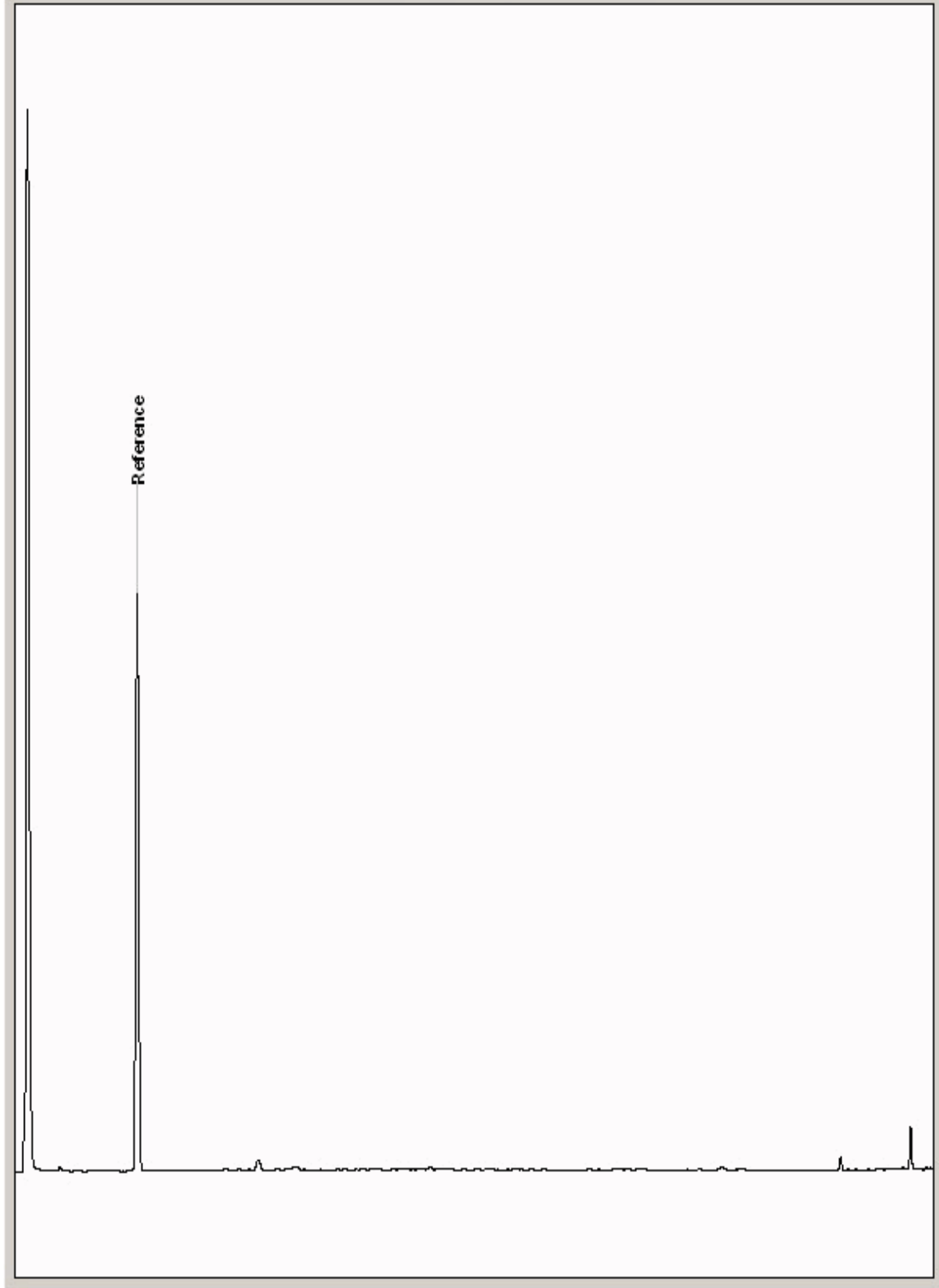
Chromatogram

Analysis: GRO by GC-FID (S)
19288142

Sample No :
Sample ID : BH240

19,288,142Depth :2.00 - 3.00

19288142_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

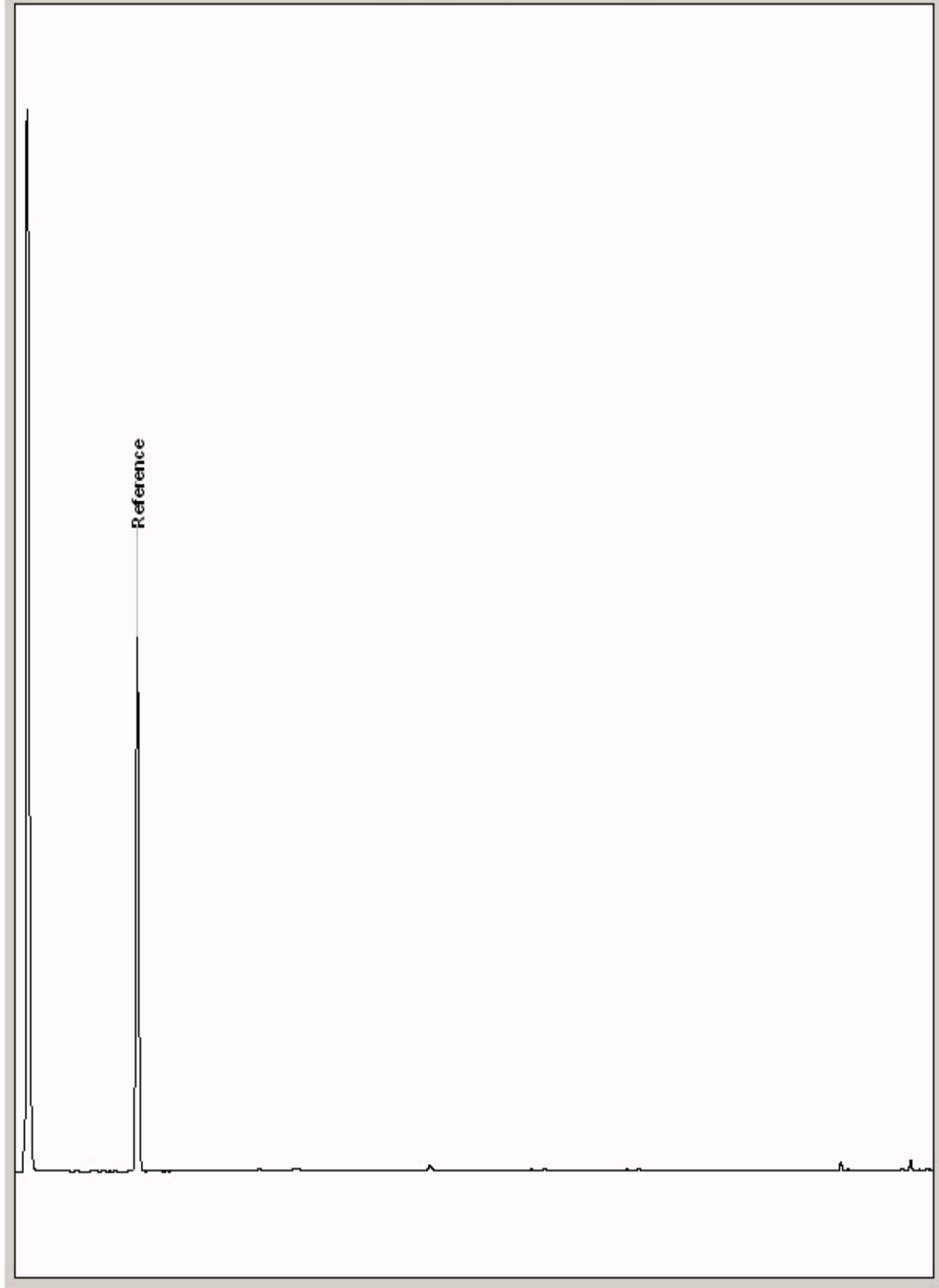
Chromatogram

Analysis: GRO by GC-FID (S)
19288144

Sample No :
Sample ID : BH240

19,288,144Depth :3.00 - 4.00

19288144_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

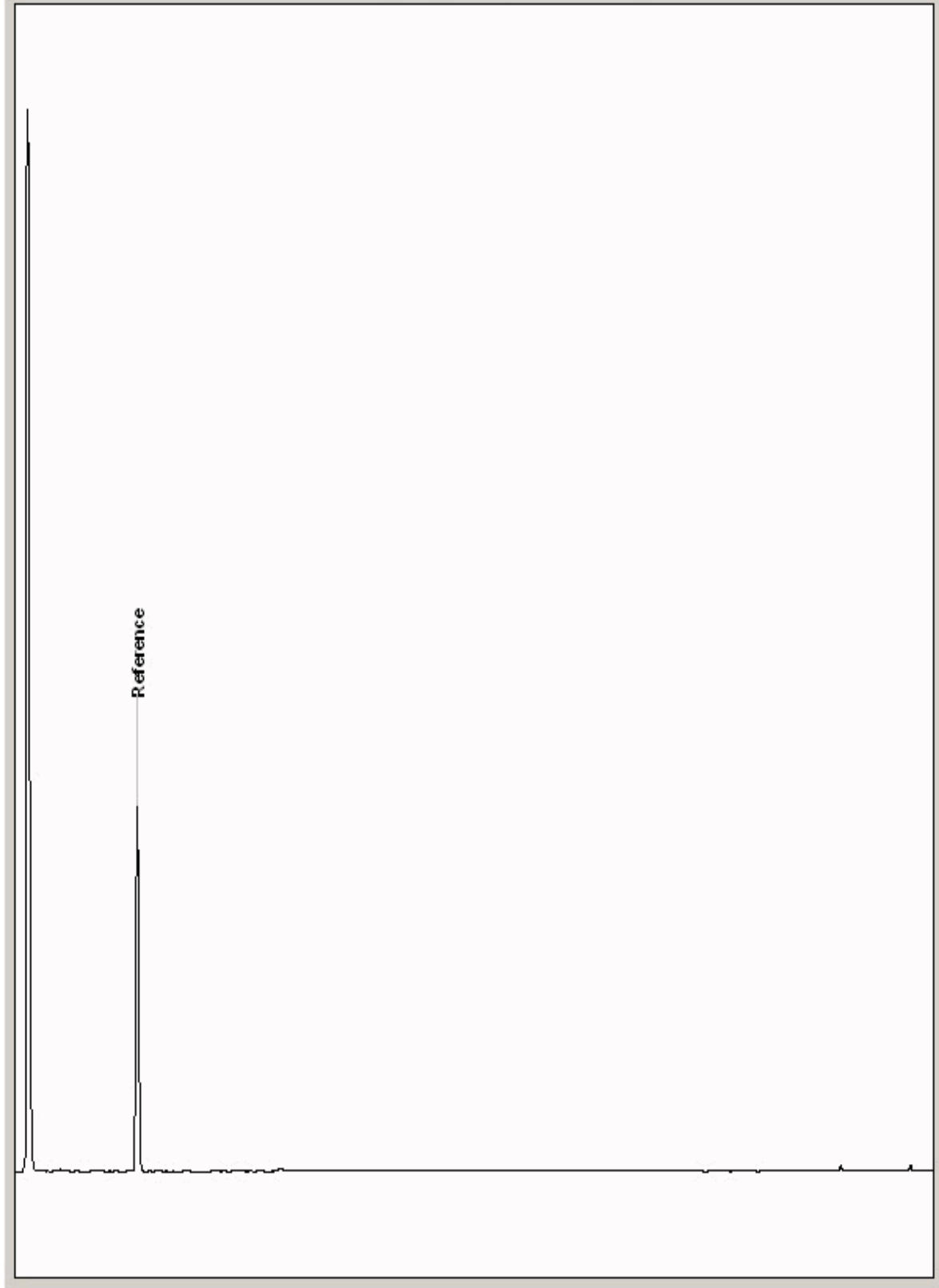
Chromatogram

Analysis: GRO by GC-FID (S)
19288146

Sample No :
Sample ID : BH240

19,288,146Depth :5.00 - 6.00

19288146_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

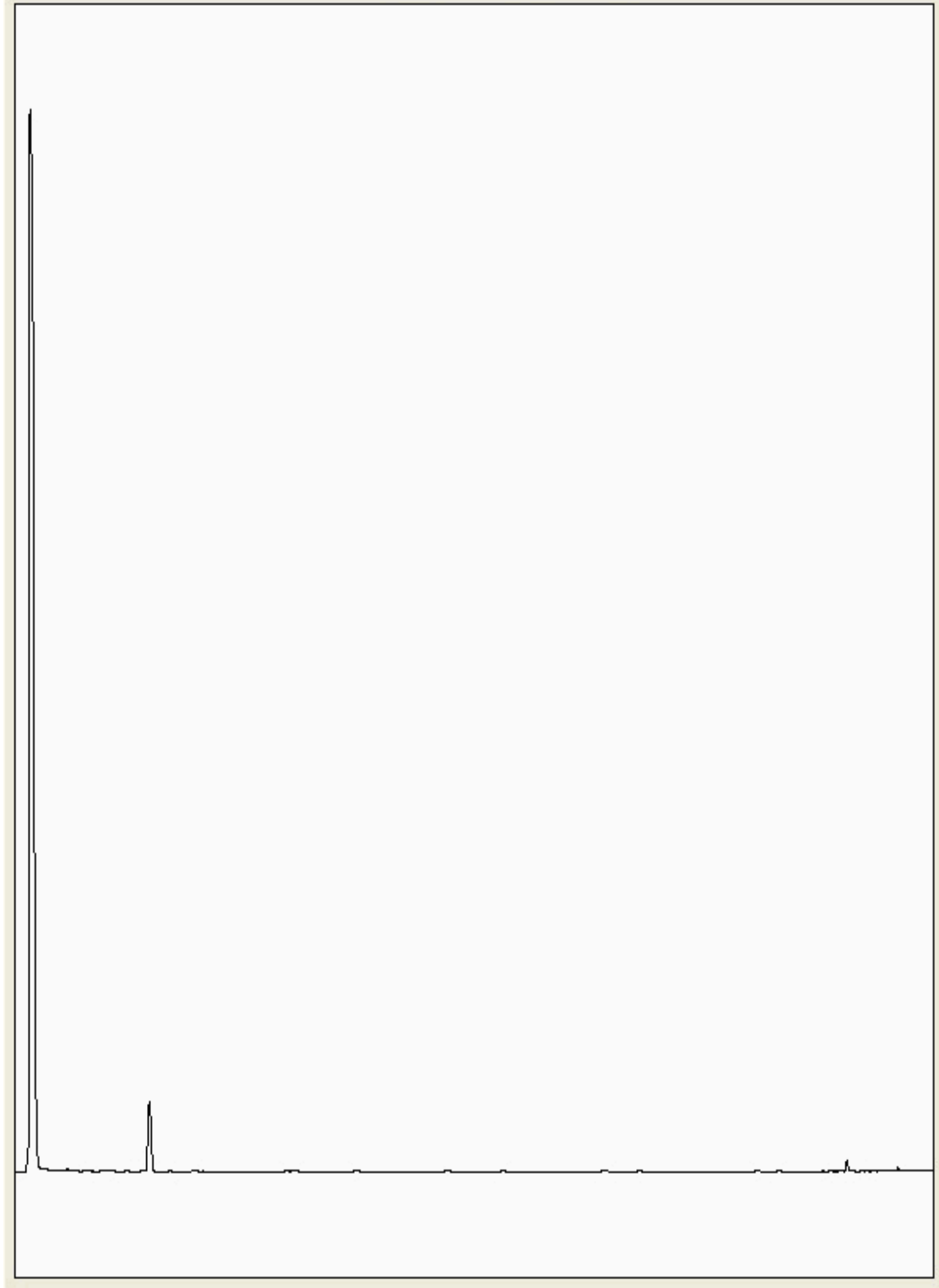
Chromatogram

Analysis: GRO by GC-FID (S)
19290839

Sample No :
Sample ID : BH242

19,290,839 **Depth :** 14.00 - 15.00

19290839_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

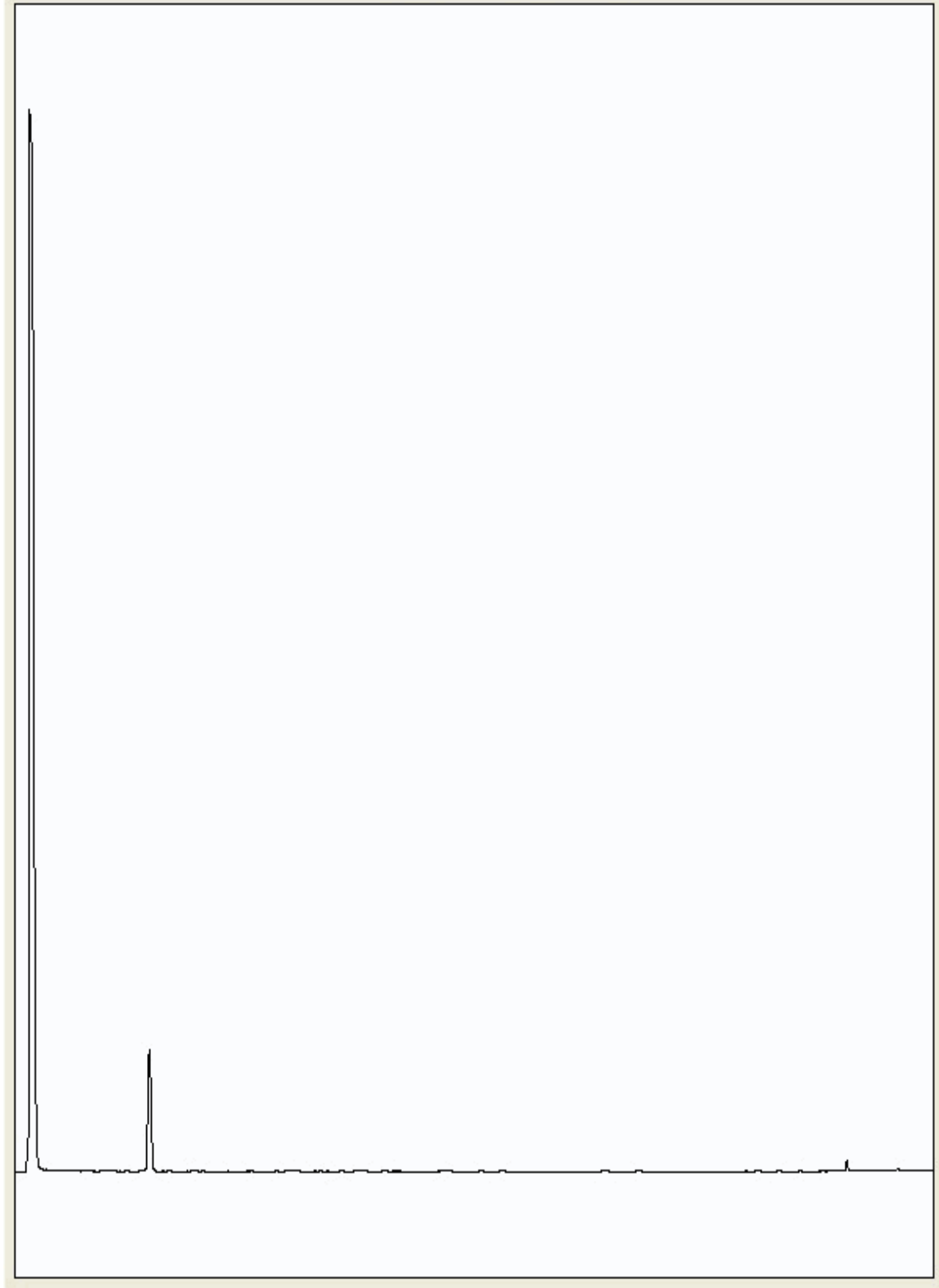
Chromatogram

Analysis: GRO by GC-FID (S)
19290902

Sample No :
Sample ID : BH240

19,290,902 **Depth :** 13.00 - 14.00

19290902_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

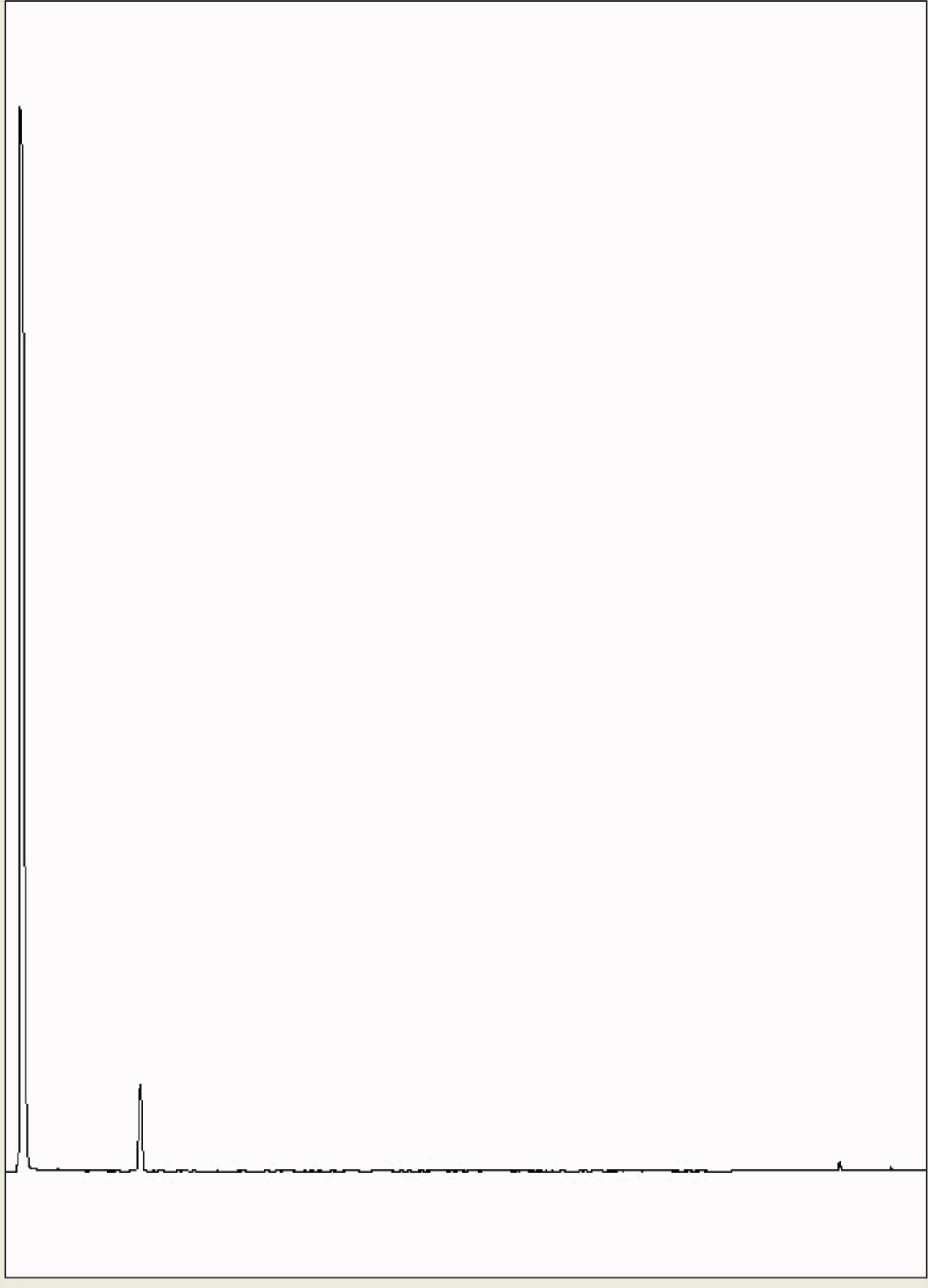
Chromatogram

Analysis: GRO by GC-FID (S)
19290913

Sample No :
Sample ID : BH239

19,290,913 **Depth :** 15.00 - 16.00

19290913_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

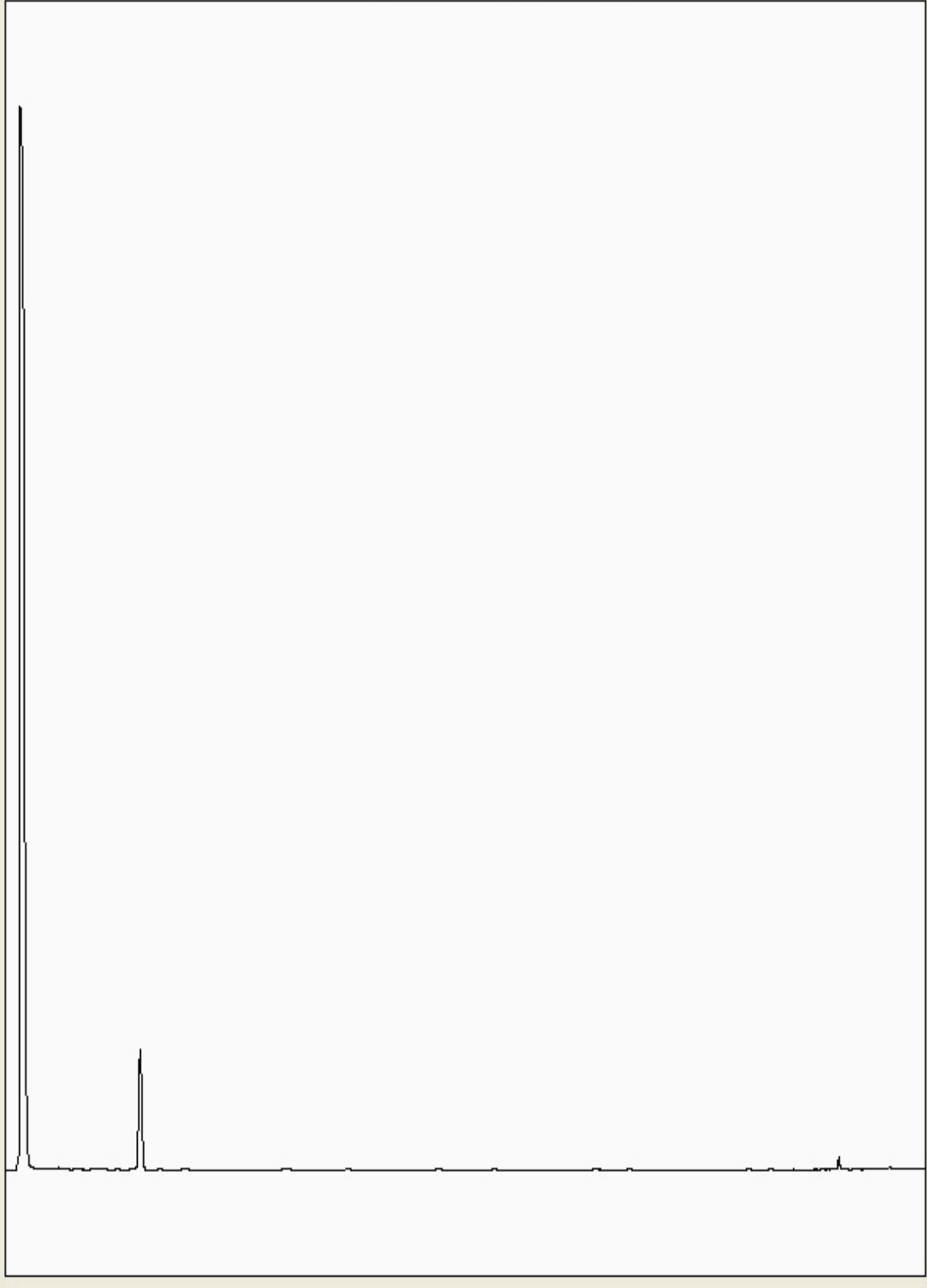
Chromatogram

Analysis: GRO by GC-FID (S)
19290929

Sample No :
Sample ID : BH240

19,290,929 **Depth :** 15.00 - 16.00

19290929_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

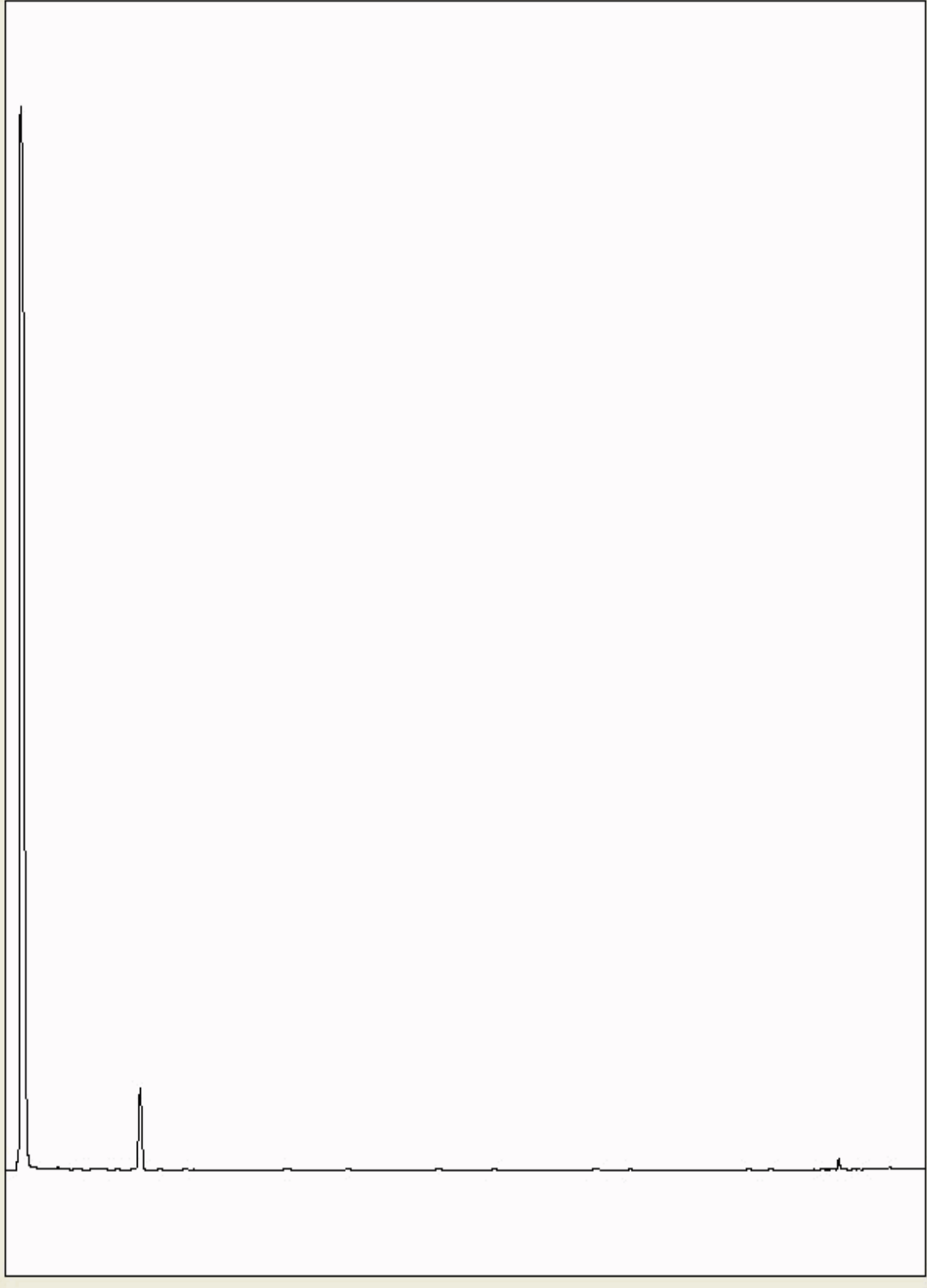
Chromatogram

Analysis: GRO by GC-FID (S)
19290935

Sample No :
Sample ID : BH239

19,290,935 **Depth :** 16.00 - 17.00

19290935_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

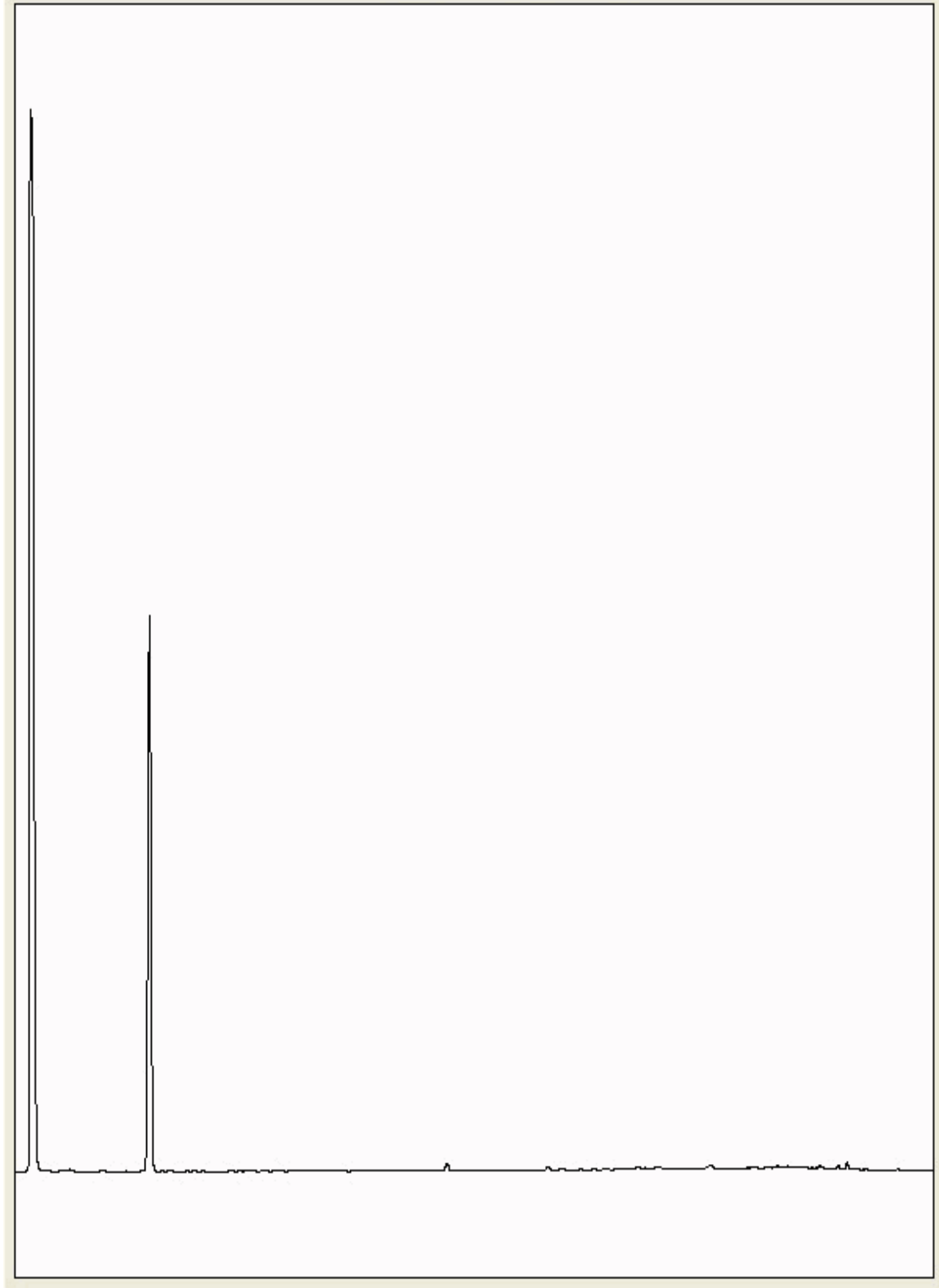
Chromatogram

Analysis: GRO by GC-FID (S)
19290950

Sample No :
Sample ID : BH239

19,290,950 **Depth :** 0.00 - 1.00

19290950_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

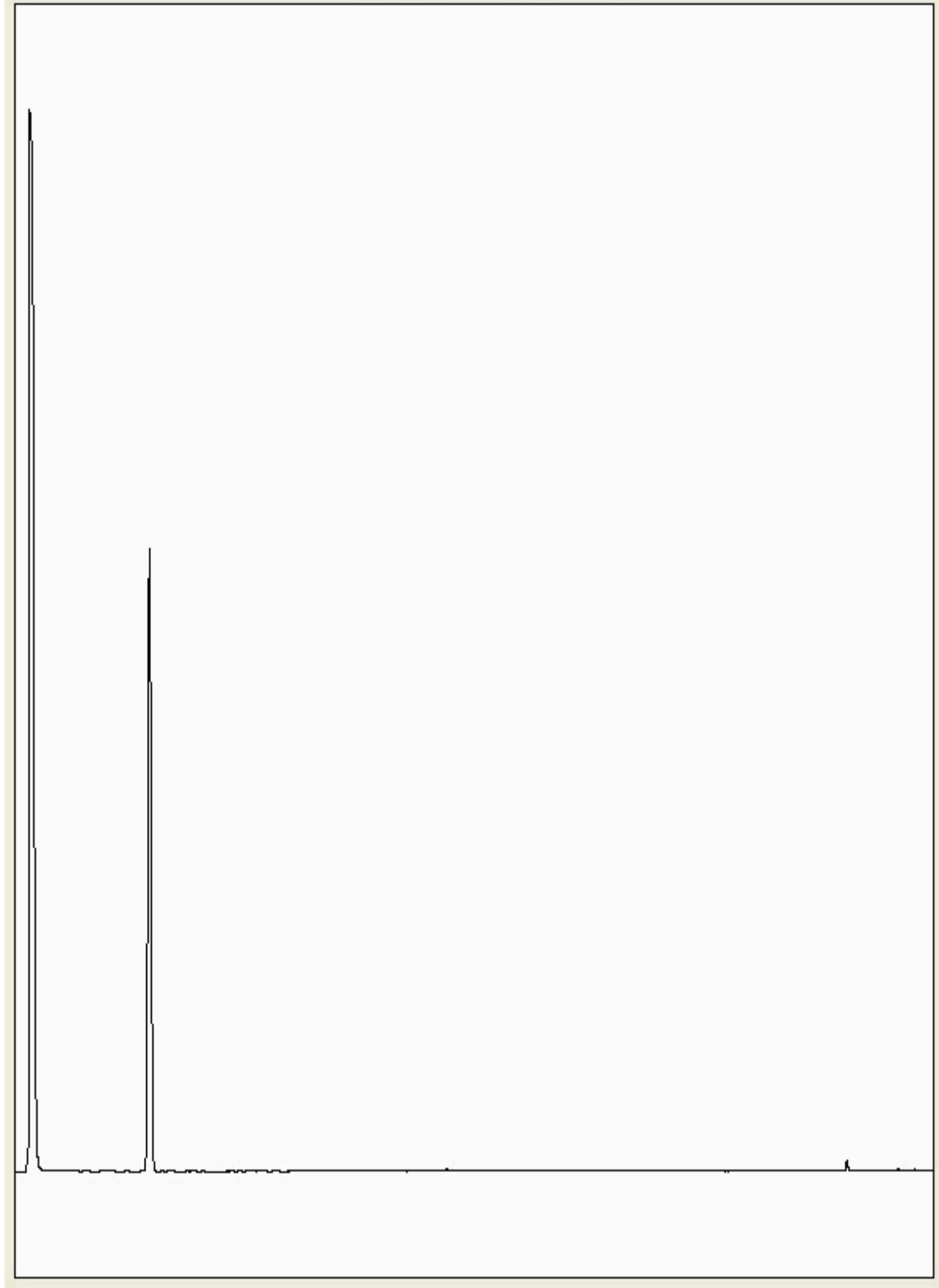
Chromatogram

Analysis: GRO by GC-FID (S)
19293795

Sample No :
Sample ID : BH240

19,293,795 **Depth :** 8.00 - 9.00

19293795_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

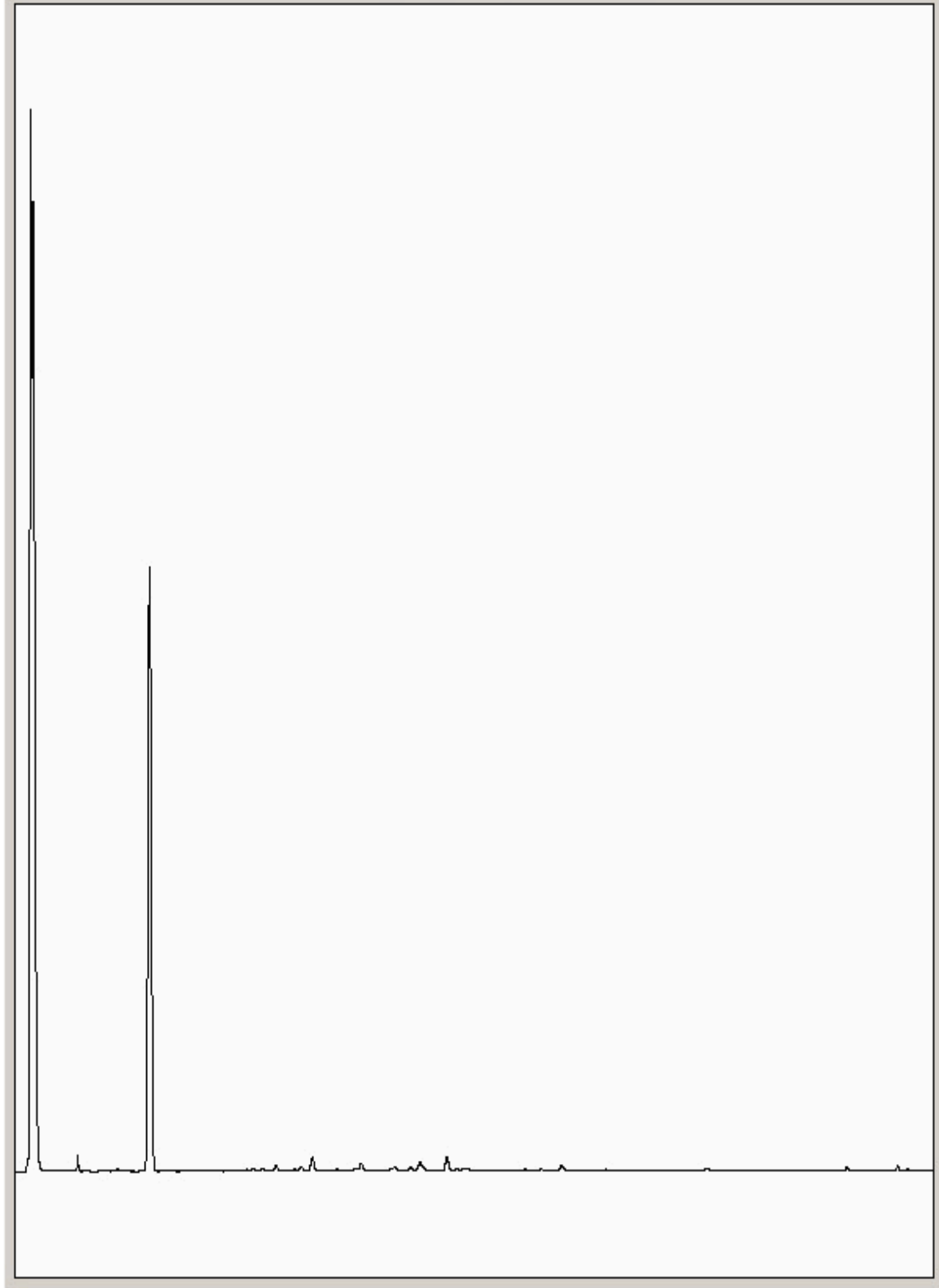
Chromatogram

Analysis: GRO by GC-FID (S)
19306670

Sample No :
Sample ID : BH239

19,306,670 **Depth :** 1.00 - 2.00

19306670_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

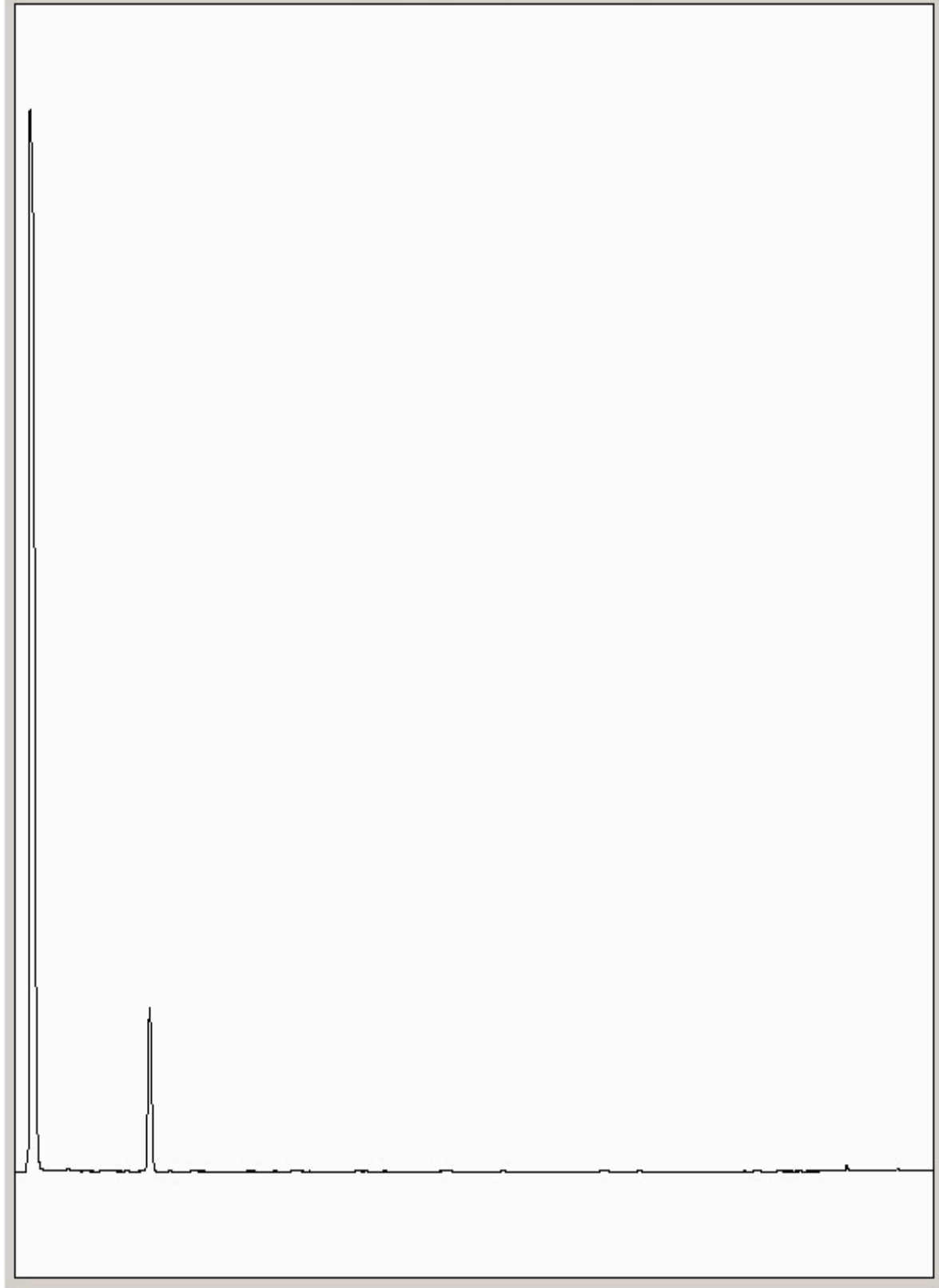
Chromatogram

Analysis: GRO by GC-FID (S)
19306702

Sample No :
Sample ID : BH239

19,306,702 **Depth :** 11.00 - 12.00

19306702_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

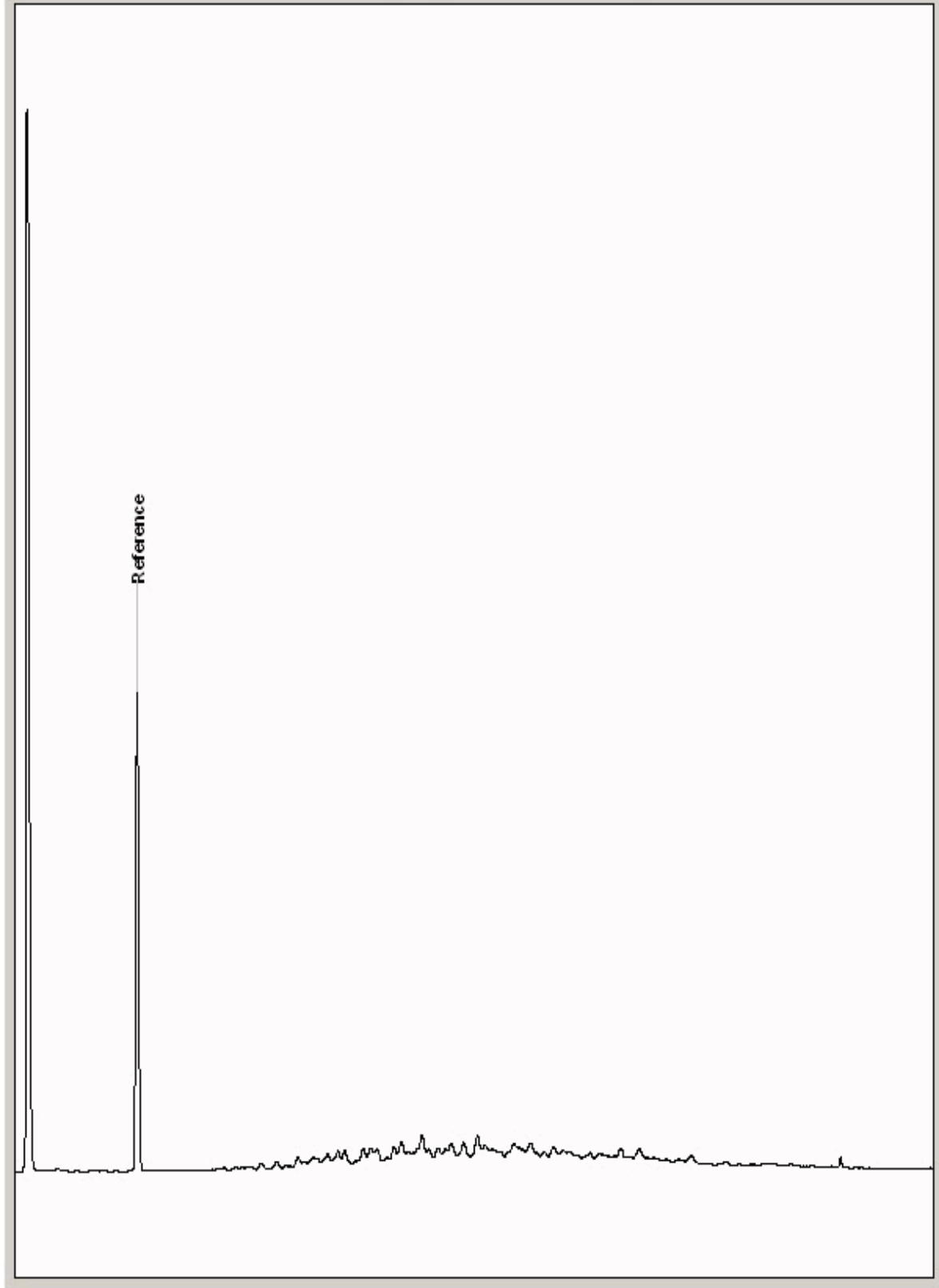
Chromatogram

Analysis: GRO by GC-FID (S)
19316860

Sample No :
Sample ID : BH240

19,316,860Depth :0.00 - 0.50

19316860_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

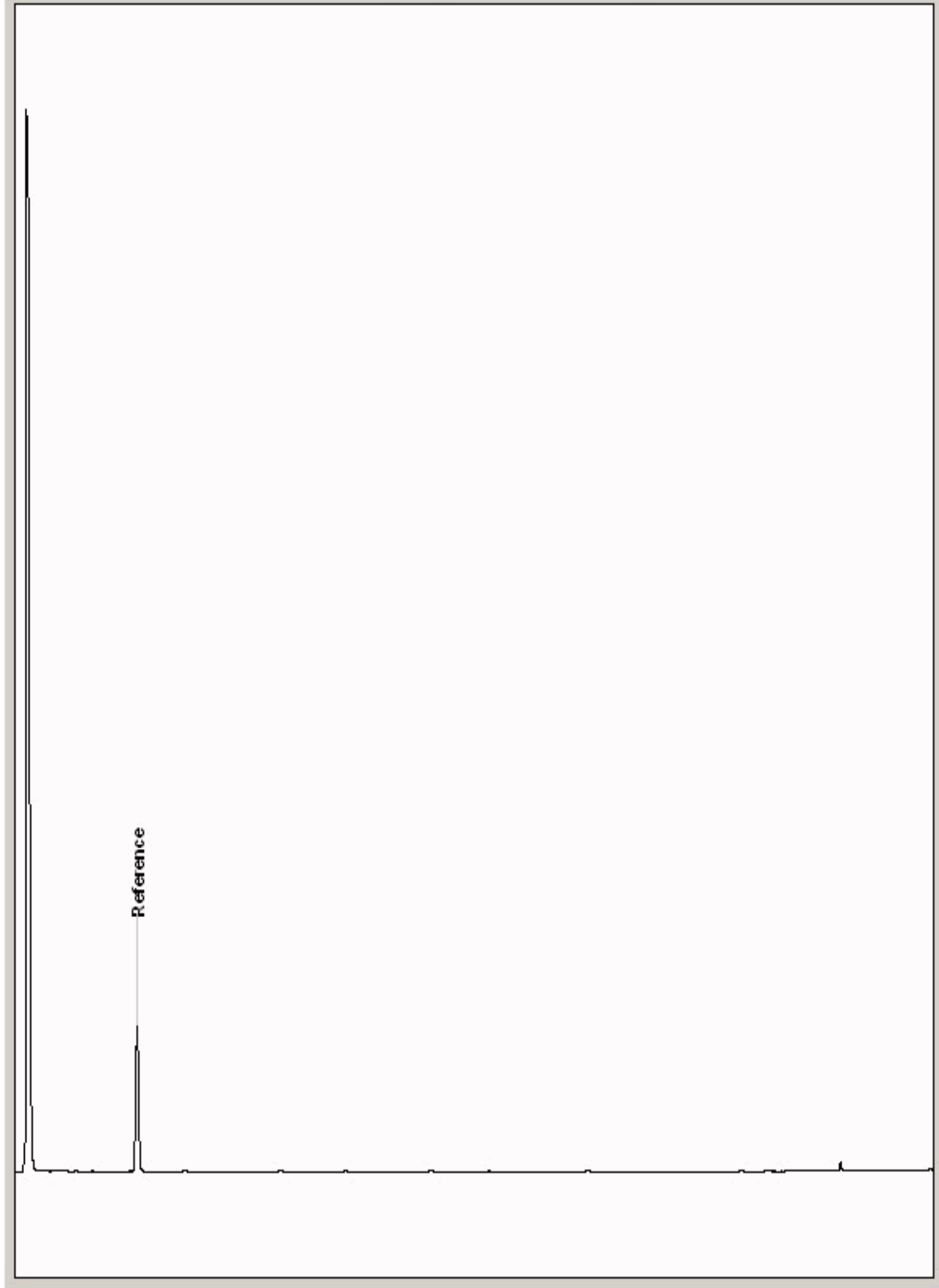
Chromatogram

Analysis: GRO by GC-FID (S)
19316869

Sample No :
Sample ID : BH242

19,316,869 Depth : 11.00 - 12.00

19316869_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

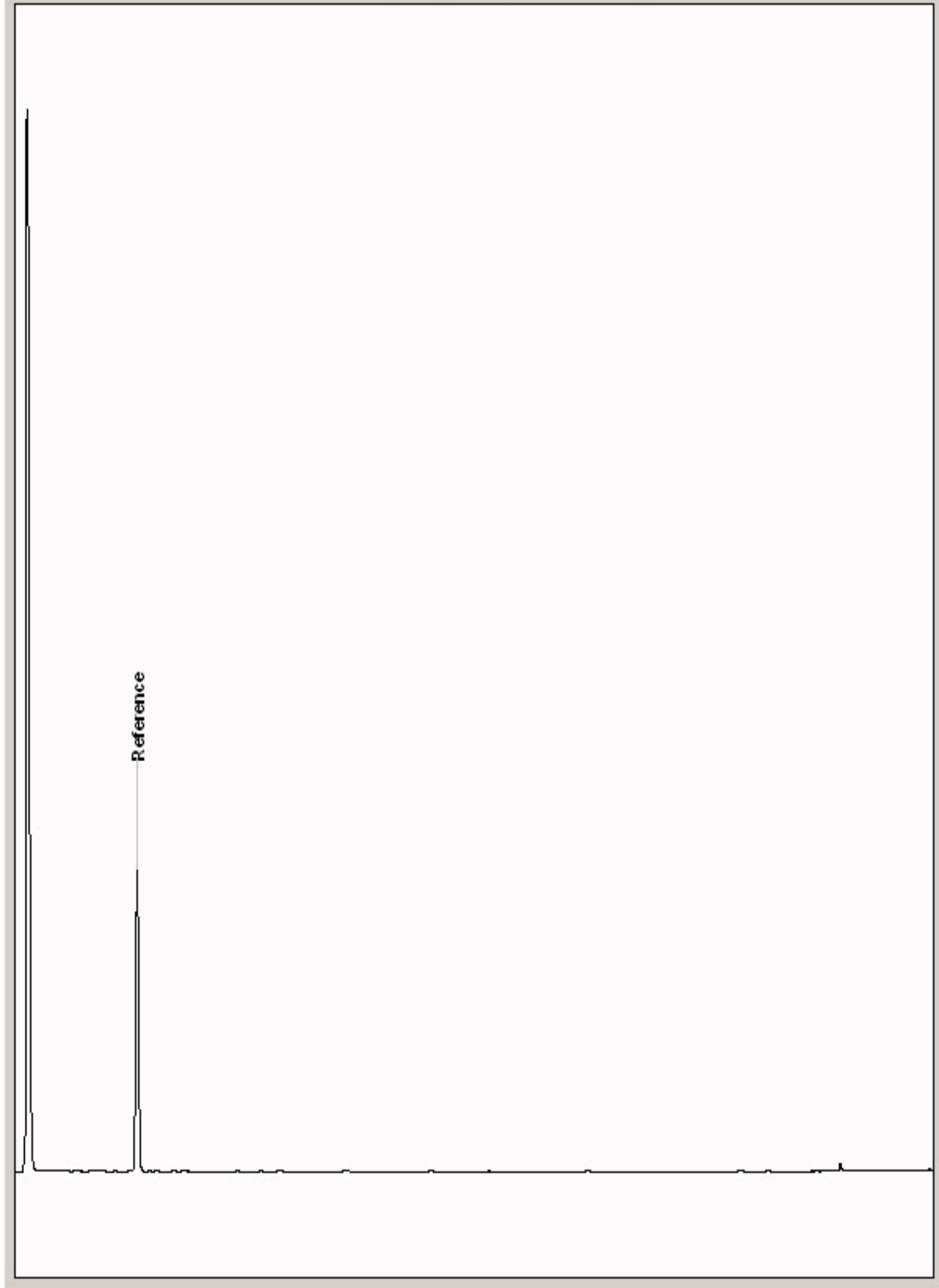
Chromatogram

Analysis: GRO by GC-FID (S)
19316870

Sample No :
Sample ID : BH242

19,316,870Depth :8.00 - 9.00

19316870_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

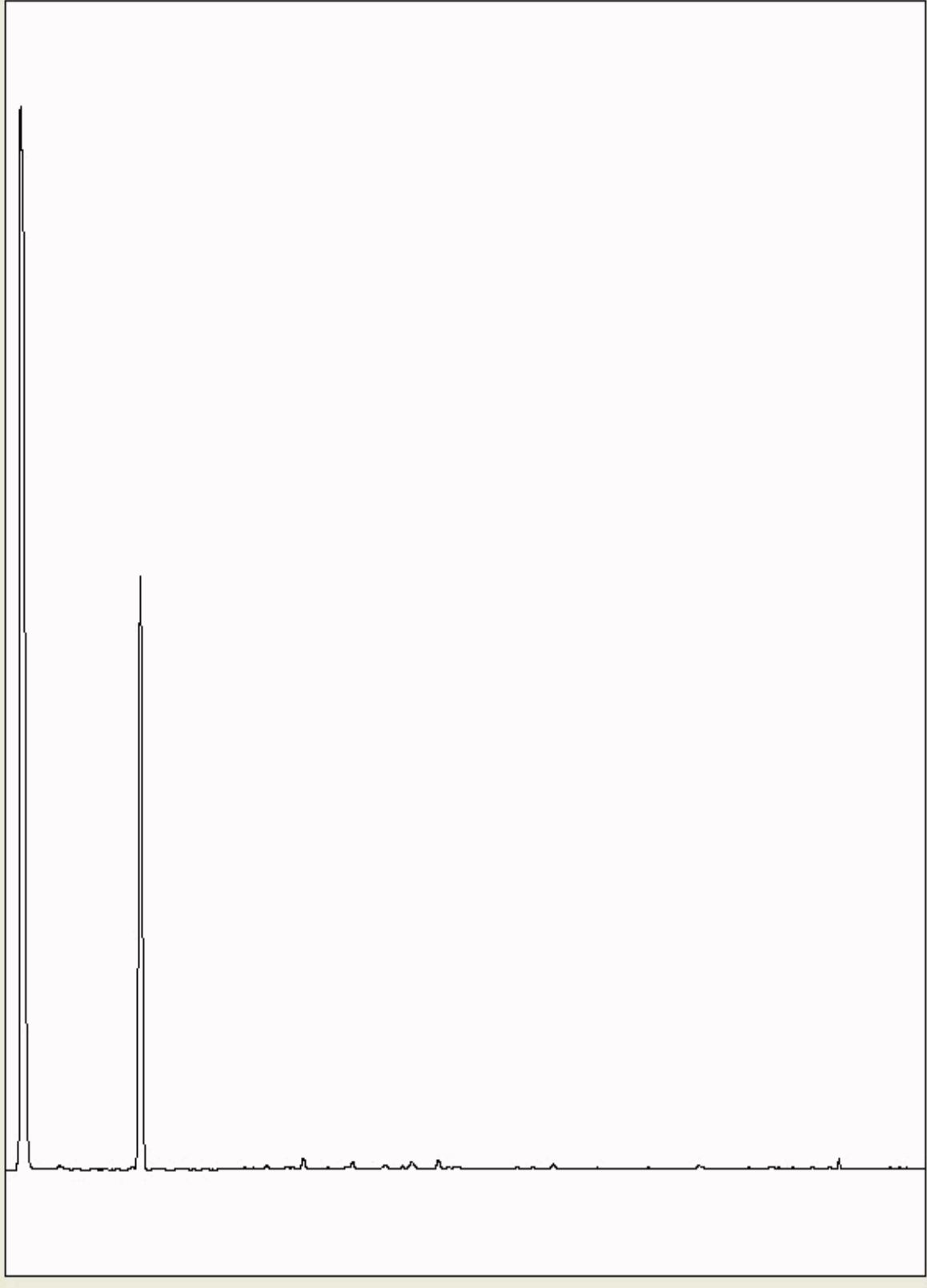
Chromatogram

Analysis: GRO by GC-FID (S)
19323627

Sample No :
Sample ID : BH239

19,323,627**Depth :** 1.00 - 2.00

19323627_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

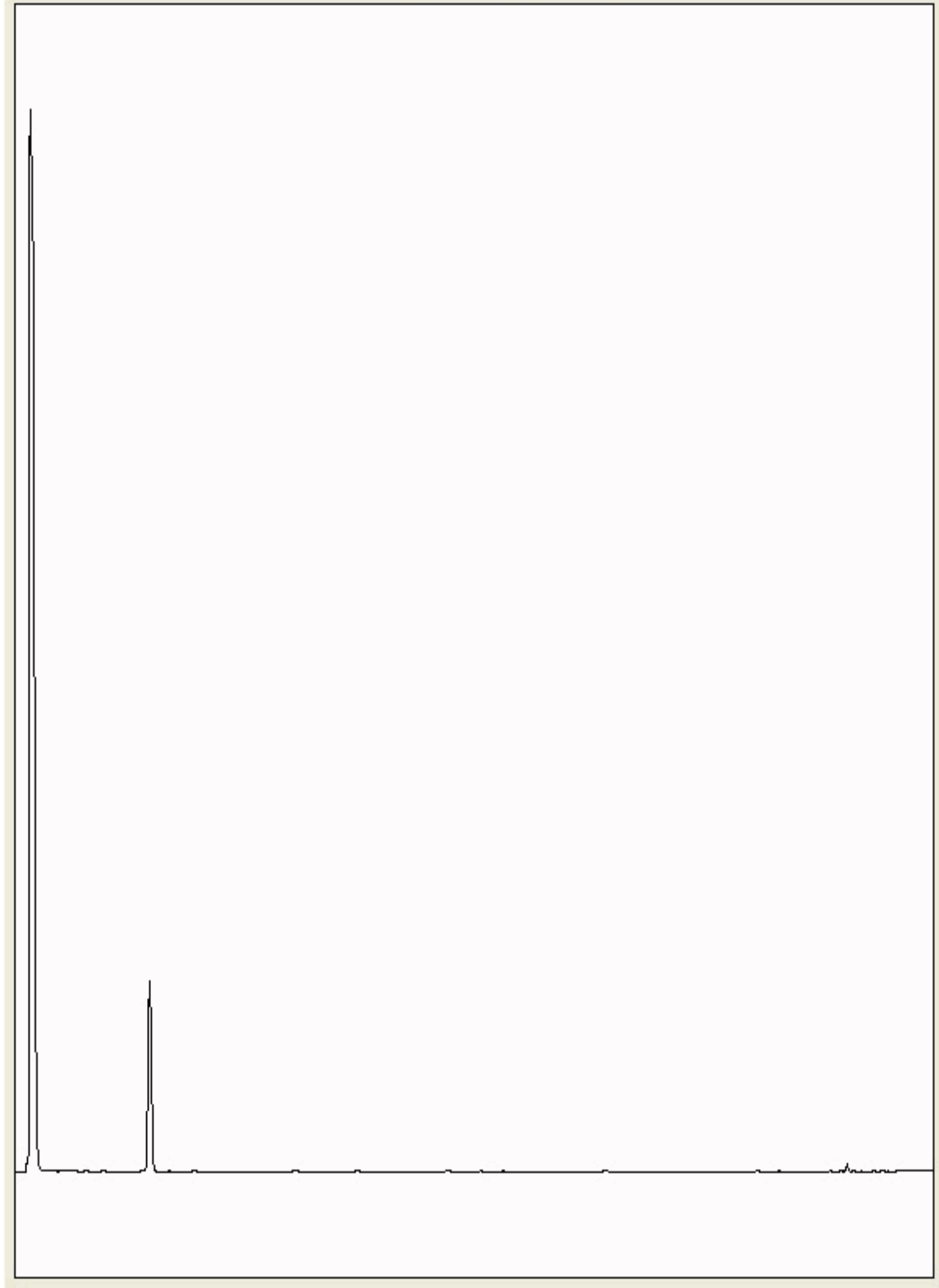
Chromatogram

Analysis: GRO by GC-FID (S)
19323633

Sample No :
Sample ID : BH239

19,323,633 **Depth :** 11.00 - 12.00

19323633_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

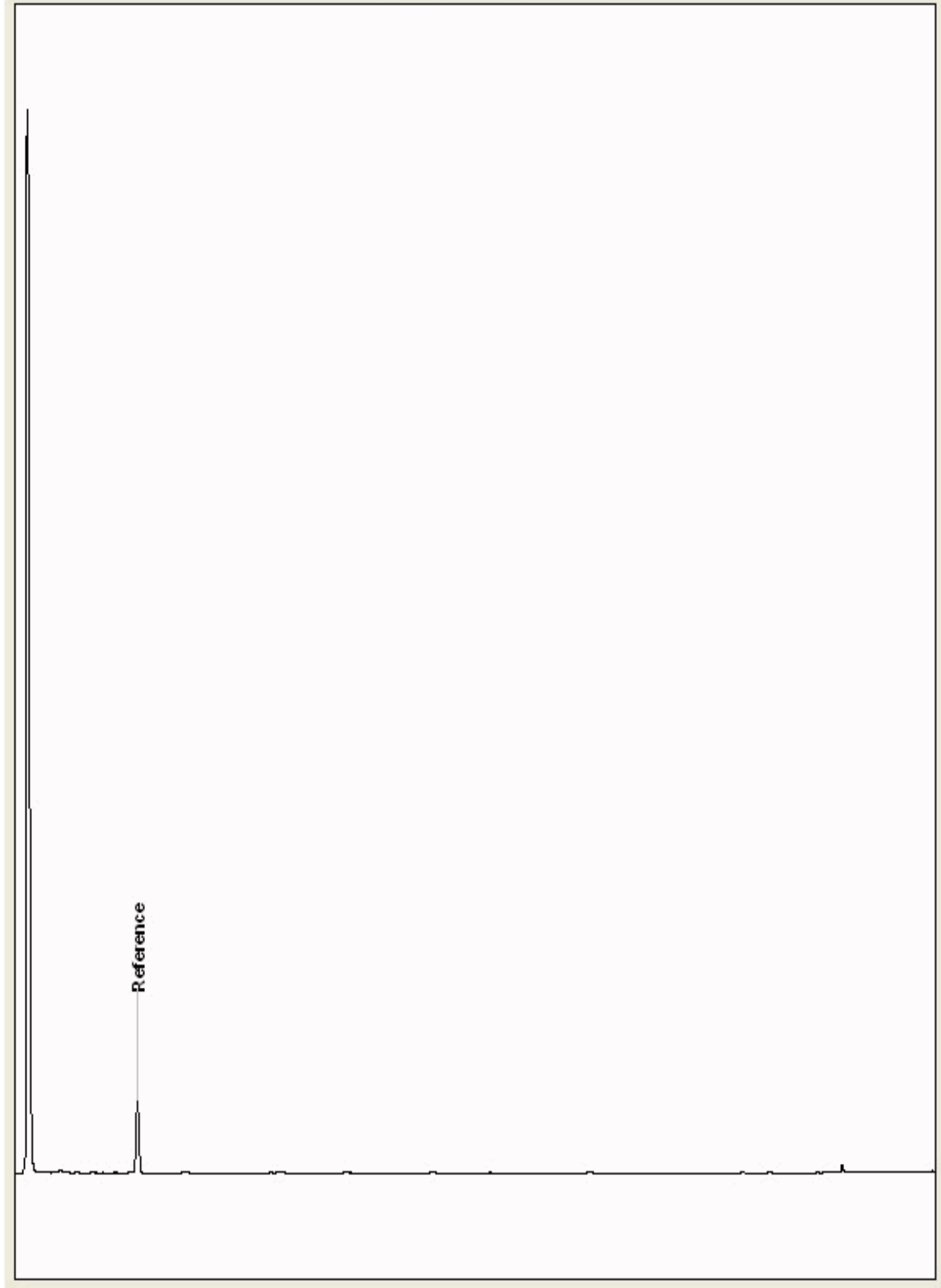
Chromatogram

Analysis: GRO by GC-FID (S)
19345140

Sample No : 19,345,140
Sample ID : BH242

Depth : 13.00 - 14.00

19345140_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

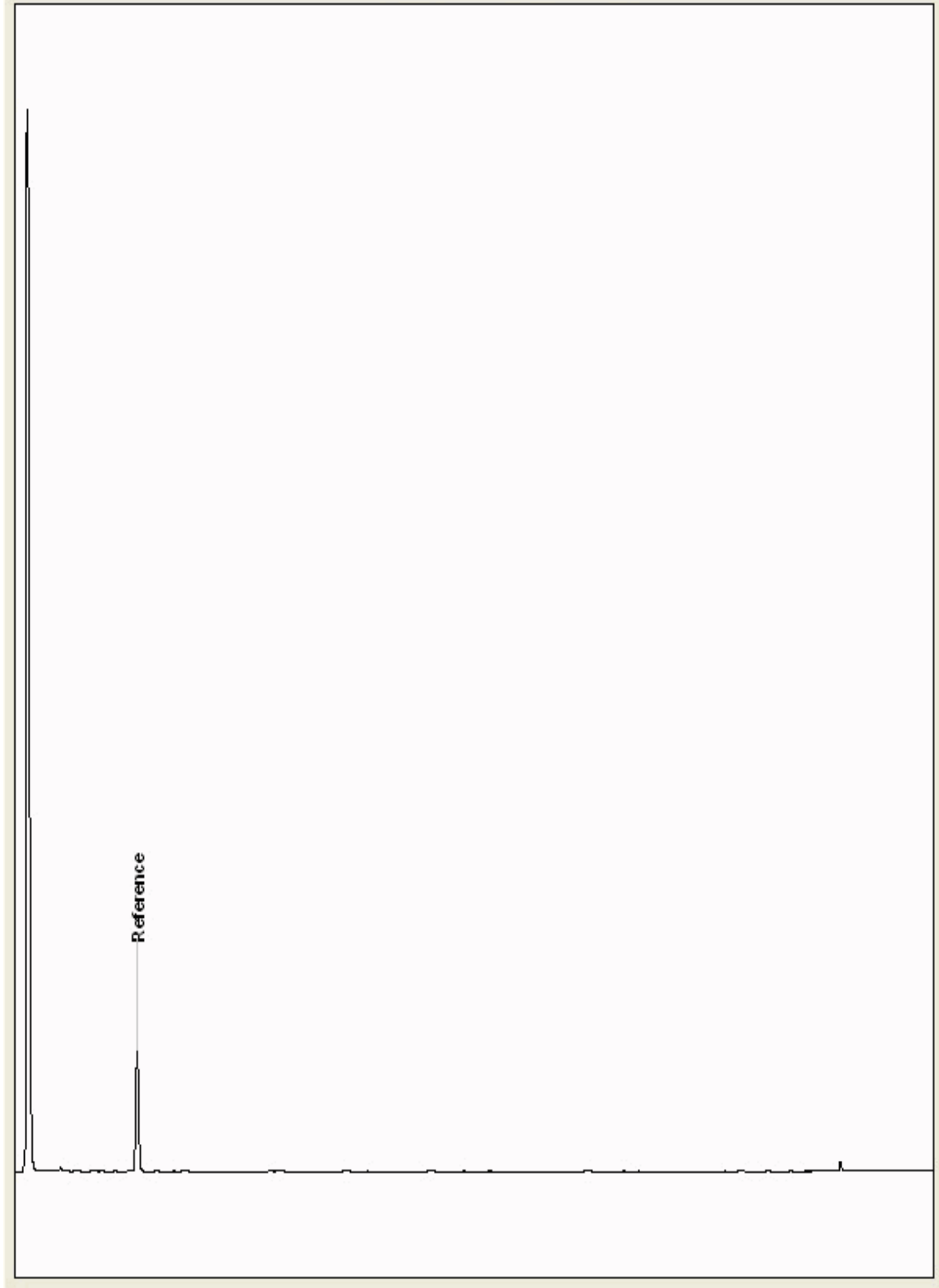
Chromatogram

Analysis: GRO by GC-FID (S)
19345228

Sample No : 19,345,228
Sample ID : BH242

Depth : 16.00 - 17.00

19345228_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

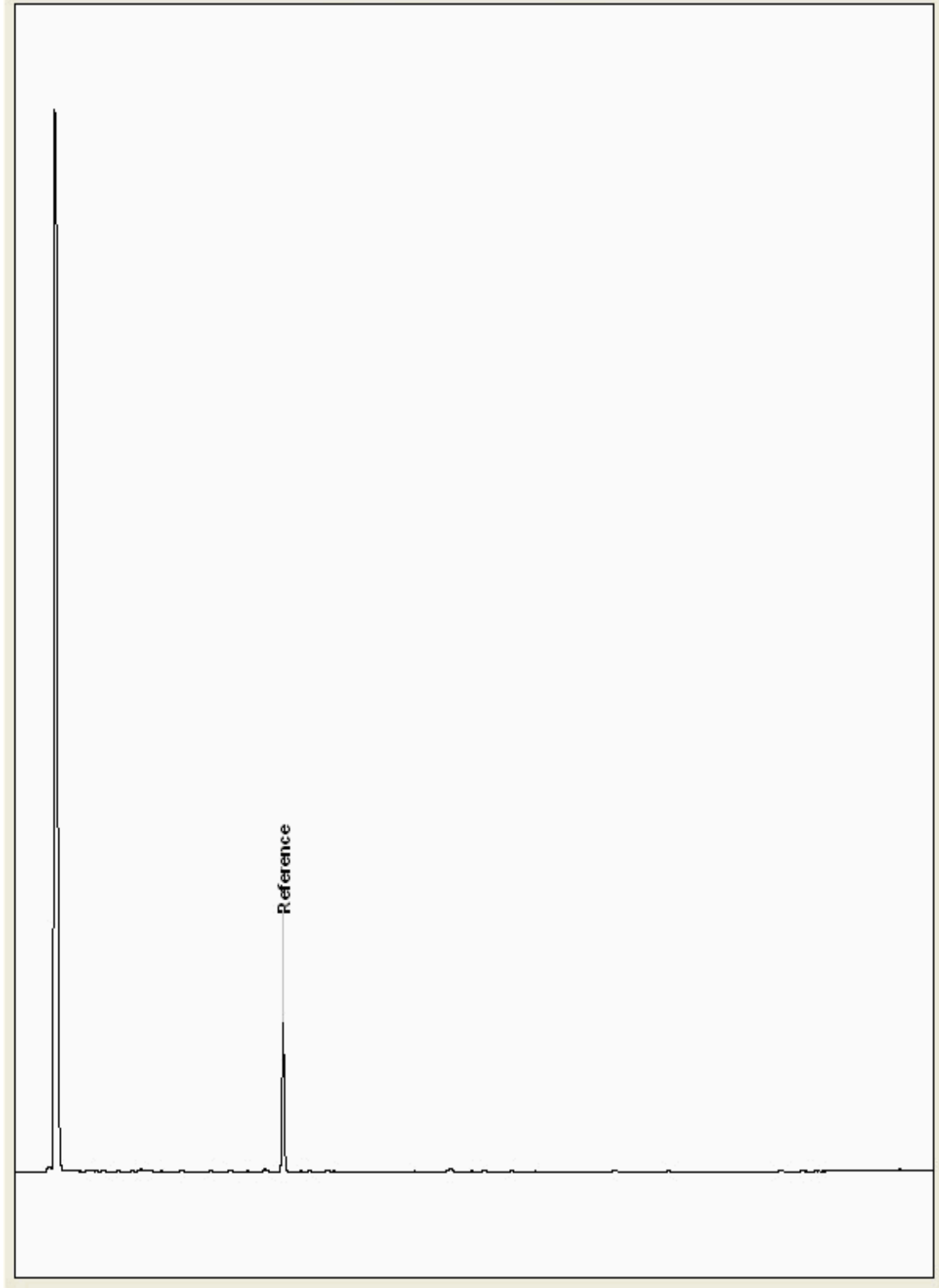
Chromatogram

Analysis: GRO by GC-FID (S)
19368668

Sample No :
Sample ID : BH242

19,368,668 **Depth :** 0.00 - 0.50

19368668_GRO_S.DATA - Chem 67 FID





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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CH5 3US

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Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: James Stretton

CERTIFICATE OF ANALYSIS

Date of report Generation: 26 February 2019
Customer: D_RSK_DUB
Sample Delivery Group (SDG): 190126-152
Your Reference: 602387
Location: City Block 9
Report No: 494343

This report has been revised and directly supersedes 492554 in its entirety.

We received 18 samples on Friday January 25, 2019 and 12 of these samples were scheduled for analysis which was completed on Tuesday February 26, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19209793	BH243		0.00 - 0.50	22/01/2019
19209794	BH243		0.50 - 1.00	22/01/2019
19209795	BH243		1.00 - 2.00	22/01/2019
19209804	BH243		10.00 - 11.00	22/01/2019
19209805	BH243		11.00 - 12.00	22/01/2019
19209806	BH243		12.00 - 13.00	22/01/2019
19209807	BH243		13.00 - 14.00	22/01/2019
19209808	BH243		14.00 - 15.00	22/01/2019
19209809	BH243		15.00 - 16.00	22/01/2019
19209810	BH243		16.00 - 17.00	22/01/2019
19209796	BH243		2.00 - 3.00	22/01/2019
19209797	BH243		3.00 - 4.00	22/01/2019
19209798	BH243		4.00 - 5.00	22/01/2019
19209799	BH243		5.00 - 6.00	22/01/2019
19209800	BH243		6.00 - 7.00	22/01/2019
19209801	BH243		7.00 - 8.00	22/01/2019
19209802	BH243		8.00 - 9.00	22/01/2019
19209803	BH243		9.00 - 10.00	22/01/2019

Maximum Sample/Coolbox Temperature (°C) :

9.2

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152	Client Reference: 602387	Report Number: 494343	
Location: City Block 9	Order Number: P2021550	Superseded Report: 492554	

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">X Test</div> <div style="display: flex; align-items: center;">N No Determination Possible</div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type						
		19209793	BH243		0.00 - 0.50	250g Amber Jar (ALE210) 1kg TUB	S					
		19209794	BH243		0.50 - 1.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
		19209795	BH243		1.00 - 2.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
		19209805	BH243		11.00 - 12.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
		19209807	BH243		13.00 - 14.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
		19209808	BH243		14.00 - 15.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
	19209809	BH243		15.00 - 16.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S						
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 12					X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 12					X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG:	190126-152	Client Reference:	602387	Report Number:	494343
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	492554

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container		Sample Type
					1kg TUB	250g Amber Jar (ALE210)	
	19209793	BH243		0.00 - 0.50	250g Amber Jar (ALE210)	1kg TUB	S
	19209794	BH243		0.50 - 1.00	250g Amber Jar (ALE210)	1kg TUB	S
	19209795	BH243		1.00 - 2.00	250g Amber Jar (ALE210)	1kg TUB	S
	19209805	BH243		11.00 - 12.00	250g Amber Jar (ALE210)	1kg TUB	S
	19209807	BH243		13.00 - 14.00	250g Amber Jar (ALE210)	1kg TUB	S
	19209808	BH243		14.00 - 15.00	250g Amber Jar (ALE210)	1kg TUB	S
	19209809	BH243		15.00 - 16.00	250g Amber Jar (ALE210)	1kg TUB	S
Mineral Oil	All	NDPs: 0 Tests: 12			X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 12			X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 12			X	X	X
PCBs by GCMS	All	NDPs: 0 Tests: 12			X	X	X
pH	All	NDPs: 0 Tests: 12			X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 12			X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 12			X	X	X
Sample description	All	NDPs: 0 Tests: 12			X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 12			X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 12			X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 12			X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 12			X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
19209793	BH243	0.00 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
19209794	BH243	0.50 - 1.00	Dark Brown	Sand	Vegetation	None
19209795	BH243	1.00 - 2.00	Dark Brown	Sandy Loam	Vegetation	None
19209796	BH243	2.00 - 3.00	Dark Brown	Silt Loam	Vegetation	None
19209798	BH243	4.00 - 5.00	Dark Brown	Sandy Loam	Stones	Stones
19209799	BH243	5.00 - 6.00	Dark Brown	Sand	Stones	Vegetation
19209800	BH243	6.00 - 7.00	Dark Brown	Gravel	Stones	Vegetation
19209802	BH243	8.00 - 9.00	Dark Brown	Sandy Loam	Stones	Vegetation
19209805	BH243	11.00 - 12.00	Dark Brown	Sand	Stones	Vegetation
19209807	BH243	13.00 - 14.00	Dark Brown	Sandy Clay Loam	Stones	Vegetation
19209808	BH243	14.00 - 15.00	Dark Brown	Sandy Loam	Vegetation	Stones
19209809	BH243	15.00 - 16.00	Dark Brown	Loamy Sand	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Results Legend		Customer Sample Ref.	BH243	BH243	BH243	BH243	BH243	BH243
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00
aq	Aqueous / settled sample.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
diss.filt	Dissolved / filtered sample.		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed		25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
1-3*@\$@	Sample deviation (see appendix)		190126-152	190126-152	190126-152	190126-152	190126-152	190126-152
			19209793	19209794	19209795	19209805	19209807	19209808
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	16	17	28	11	6.5	5.9
Loss on ignition	<0.7 %	TM018	3.37	1.35	5.48	1.44	1.61	1.59
Mineral Oil Surrogate % recovery**	%	TM061	69 @	72.9 @	71 @	73.5 @	74.8 @	74.9 @
Mineral oil >C10-C40	<1 mg/kg	TM061	14.9 @	3.5 @	12.1 @	<1 @	1.08 @	<1 @
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	0.0119	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.89	0.403	2.19	0.299	0.52	0.568
pH	1 pH Units	TM133	8.34	8.36	7.81	9.1	8.7	8.68
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	25.4	5.44	11.8	5.07	15.6	7.96
Cadmium	<0.02 mg/kg	TM181	4.26	0.643	0.693	0.889	1.28	1.44
Chromium	<0.9 mg/kg	TM181	6.32	6.76	16.7	4.05	4.8	9.32
Copper	<1.4 mg/kg	TM181	199	35.1	66.5	8.97	18.3	20.8
Lead	<0.7 mg/kg	TM181	723	78.7	169	13.7	12.6	8.73
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	0.906	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	22	9.71	21.9	17.8	27.2	29.5
Selenium	<1 mg/kg	TM181	<1	<1	1.18	1.12	2.34	1.48
Zinc	<1.9 mg/kg	TM181	1290	178	128	48.3	68.2	72.9
ANC @ pH 4	<0.03 mol/kg	TM182	0.152	0.132	0.709	0.223	0.431	0.51
ANC @ pH 6	<0.03 mol/kg	TM182	0.0473	0.0528	0.0611	0.103	0.144	0.101



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Results Legend		Customer Sample Ref.	BH243	BH243	BH243	BH243	BH243	BH243	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	15.00 - 16.00	2.00 - 3.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
aq	Aqueous / settled sample.		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
-	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed		190126-152	190126-152	190126-152	190126-152	190126-152	190126-152	190126-152
1-3*\$@	Sample deviation (see appendix)		19209809	19209796	19209798	19209799	19209800	19209802	
Component	LOD/Units		Method						
Moisture Content Ratio (% of as received sample)	%	PM024	6.4	24	15	16	9.8	7.5	
Loss on ignition	<0.7 %	TM018	1.99	4.4	3.41	1.06	0.849	0.937	
Mineral Oil Surrogate % recovery**	%	TM061	74	72.7 @	74.6 @	74.6 @	73.1	74.3 @	
Mineral oil >C10-C40	<1 mg/kg	TM061	15	<1 @	<1 @	<1 @	<1	<1 @	
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	
Organic Carbon, Total	<0.2 %	TM132	0.711	1.69	1.26	0.4	0.381	0.316	
pH	1 pH Units	TM133	8.6	7.61	8.18	8.14	8.56	9.19	
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21	
Arsenic	<0.6 mg/kg	TM181	9.54	13.1	9.63	5.85	5.05	4.02	
Cadmium	<0.02 mg/kg	TM181	1.33	0.655	0.508	0.232	0.307	0.793	
Chromium	<0.9 mg/kg	TM181	7.11	12.9	7.24	7.58	3.89	3.25	
Copper	<1.4 mg/kg	TM181	26.6	36.3	19.2	8.69	6.64	5.97	
Lead	<0.7 mg/kg	TM181	21.5	81	46.3	15.1	7.17	6.57	
Mercury	<0.14 mg/kg	TM181	<0.14	0.262	<0.14	<0.14	<0.14	<0.14	
Nickel	<0.2 mg/kg	TM181	29.7	20.3	12.5	12.3	9.81	15.5	
Selenium	<1 mg/kg	TM181	3.34	1.1	<1	<1	<1	<1	
Zinc	<1.9 mg/kg	TM181	93.1	78.5	54.5	34.2	33.5	40.1	
ANC @ pH 4	<0.03 mol/kg	TM182	1.14	0.242	0.0741	0.124	0.0613	0.329	
ANC @ pH 6	<0.03 mol/kg	TM182	0.134	0.0416	0.0418	0.052	0.0443	0.107	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

PAH by GCMS

Results Legend		Customer Sample Ref.	BH243	BH243	BH243	BH243	BH243	BH243	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
aq	Aqueous / settled sample.		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*\$@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%	TM218	112	116	113	120	116	117	
Acenaphthene-d10 % recovery**	%	TM218	111	117	114	116	112	118	
Phenanthrene-d10 % recovery**	%	TM218	116	131	122	116	108	117	
Chrysene-d12 % recovery**	%	TM218	124	121	131	109	99.6	111	
Perylene-d12 % recovery**	%	TM218	124	114	126	104	90.6	93.2	
Naphthalene	<9 µg/kg	TM218	329	424	23.7	<9	10.2	11.2	
Acenaphthylene	<12 µg/kg	TM218	1870	1530	63.9	<12	<12	<12	
Acenaphthene	<8 µg/kg	TM218	250	250	28.1	<8	<8	<8	
Fluorene	<10 µg/kg	TM218	1560	1680	90.6	<10	14	<10	
Phenanthrene	<15 µg/kg	TM218	21500	21400	632	<15	66.3	42.4	
Anthracene	<16 µg/kg	TM218	3340	3320	149	<16	<16	<16	
Fluoranthene	<17 µg/kg	TM218	32200	25700	1020	<17	35	<17	
Pyrene	<15 µg/kg	TM218	26200	21200	825	<15	27.2	<15	
Benz(a)anthracene	<14 µg/kg	TM218	12800	9450	489	<14	<14	<14	
Chrysene	<10 µg/kg	TM218	12900	9560	468	<10	<10	<10	
Benzo(b)fluoranthene	<15 µg/kg	TM218	16500	10800	545	<15	<15	<15	
Benzo(k)fluoranthene	<14 µg/kg	TM218	6210	3850	234	<14	<14	<14	
Benzo(a)pyrene	<15 µg/kg	TM218	12400	7870	405	<15	<15	<15	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	5940	3760	184	<18	<18	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	1310	1190	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	5940	4510	208	<24	<24	<24	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	161000	126000	5370	<118	153	<118	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

TPH CWG (S)

Results Legend			Customer Sample Ref.	BH243	BH243	BH243	BH243	BH243	BH243
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00
			Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
			Date Sampled	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
			Sampled Time						
			Date Received	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
			SDG Ref	190126-152	190126-152	190126-152	190126-152	190126-152	190126-152
			Lab Sample No.(s)	19209793	19209794	19209795	19209805	19209807	19209808
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		78	98	104	75	20.2	15.5
				2	@	@	@	@	@
GRO TOT (Moisture Corrected)	<100	TM089		175	<100	277	<100	<100	<100
	µg/kg			2	@	@	@	@	@
Aliphatics >C5-C6	<10	TM089		10.7	<10	26.2	<10	<10	<10
	µg/kg			2	@	@	@	@	@
Aliphatics >C6-C8	<10	TM089		25	<10	58	<10	<10	<10
	µg/kg			2	@	@	@	@	@
Aliphatics >C8-C10	<10	TM089		28.6	<10	62.1	<10	<10	<10
	µg/kg			2	@	@	@	@	@
Aliphatics >C10-C12	<10	TM089		52.4	<10	52.4	<10	<10	<10
	µg/kg			2	@	@	@	@	@
Aliphatics >C12-C16	<100	TM173		1670	<100	4430	<100	1320	1960
	µg/kg								
Aliphatics >C16-C21	<100	TM173		2360	272	3210	<100	354	2160
	µg/kg								
Aliphatics >C21-C35	<100	TM173		8410	26400	12000	<100	7530	10600
	µg/kg								
Aliphatics >C35-C44	<100	TM173		<100	7170	1200	<100	1070	1680
	µg/kg								
Total Aliphatics >C12-C44	<100	TM173		12400	33900	20800	<100	10300	16400
	µg/kg								
Aromatics >EC5-EC7	<10	TM089		<10	<10	<10	<10	<10	<10
	µg/kg			2	@	@	@	@	@
Aromatics >EC7-EC8	<10	TM089		<10	<10	<10	<10	<10	<10
	µg/kg			2	@	@	@	@	@
Aromatics >EC8-EC10	<10	TM089		19	<10	41.4	<10	<10	<10
	µg/kg			2	@	@	@	@	@
Aromatics >EC10-EC12	<10	TM089		34.5	<10	35.9	<10	<10	<10
	µg/kg			2	@	@	@	@	@
Aromatics >EC12-EC16	<100	TM173		9890	1450	871	<100	<100	<100
	µg/kg								
Aromatics >EC16-EC21	<100	TM173		146000	25900	8010	376	<100	<100
	µg/kg								
Aromatics >EC21-EC35	<100	TM173		339000	69900	34000	1100	456	4570
	µg/kg								
Aromatics >EC35-EC44	<100	TM173		79000	18900	7640	600	364	<100
	µg/kg								
Aromatics >EC40-EC44	<100	TM173		24300	6050	2190	170	<100	<100
	µg/kg								
Total Aromatics >EC12-EC44	<100	TM173		573000	116000	50500	2080	820	4570
	µg/kg								
Total Aliphatics & Aromatics >C5-C44	<100	TM173		586000	150000	71700	2080	11100	21000
	µg/kg								



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

TPH CWG (S)

Results Legend			Customer Sample Ref.		BH243	BH243	BH243	BH243	BH243	BH243
#	ISO17025 accredited.		Depth (m)		15.00 - 16.00	2.00 - 3.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00
M	mCERTS accredited.		Sample Type		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
aq	Aqueous / settled sample.		Date Sampled		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
diss.filt	Dissolved / filtered sample.		Sampled Time		.	.	.	.	.	.
tot.unfilt	Total / unfiltered sample.		Date Received		25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
*	Subcontracted test.		SDG Ref		190126-152	190126-152	190126-152	190126-152	190126-152	190126-152
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		Lab Sample No.(s)		19209809	19209796	19209798	19209799	19209800	19209802
(F)	Trigger breach confirmed		AGS Reference							
1-3*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089	13.2	100	100	71	104	84		
			@	@	@	@	@	@		
GRO TOT (Moisture Corrected)	<100	TM089	<100	309	<100	340	<100	<100	<100	<100
	µg/kg		@	@	@	@	@	@	@	@
Aliphatics >C5-C6	<10	TM089	<10	23.6	<10	23.8	<10	<10	<10	<10
	µg/kg		@	@	@	@	@	@	@	@
Aliphatics >C6-C8	<10	TM089	<10	53.7	<10	46.4	<10	<10	<10	<10
	µg/kg		@	@	@	@	@	@	@	@
Aliphatics >C8-C10	<10	TM089	<10	72.1	<10	92.8	<10	<10	<10	<10
	µg/kg		@	@	@	@	@	@	@	@
Aliphatics >C10-C12	<10	TM089	<10	66.8	<10	69	<10	<10	<10	<10
	µg/kg		@	@	@	@	@	@	@	@
Aliphatics >C12-C16	<100	TM173	1170	<100	610	<100	<100	<100	<100	<100
	µg/kg									
Aliphatics >C16-C21	<100	TM173	1190	1610	695	455	<100	<100	<100	<100
	µg/kg									
Aliphatics >C21-C35	<100	TM173	14600	13600	4020	7760	1800	<100	<100	<100
	µg/kg									
Aliphatics >C35-C44	<100	TM173	2440	1100	<100	2020	<100	<100	<100	<100
	µg/kg									
Total Aliphatics >C12-C44	<100	TM173	19300	16300	5320	10200	1800	<100	<100	<100
	µg/kg									
Aromatics >EC5-EC7	<10	TM089	<10	<10	<10	<10	<10	<10	<10	<10
	µg/kg		@	@	@	@	@	@	@	@
Aromatics >EC7-EC8	<10	TM089	<10	<10	<10	<10	<10	<10	<10	<10
	µg/kg		@	@	@	@	@	@	@	@
Aromatics >EC8-EC10	<10	TM089	<10	48.5	<10	61.9	<10	<10	<10	<10
	µg/kg		@	@	@	@	@	@	@	@
Aromatics >EC10-EC12	<10	TM089	<10	44.5	<10	45.2	<10	<10	<10	<10
	µg/kg		@	@	@	@	@	@	@	@
Aromatics >EC12-EC16	<100	TM173	<100	2510	322	<100	<100	<100	<100	<100
	µg/kg									
Aromatics >EC16-EC21	<100	TM173	<100	16700	2510	<100	<100	<100	<100	<100
	µg/kg									
Aromatics >EC21-EC35	<100	TM173	<100	68800	13800	3280	<100	<100	<100	<100
	µg/kg									
Aromatics >EC35-EC44	<100	TM173	<100	16400	3620	106	<100	<100	<100	<100
	µg/kg									
Aromatics >EC40-EC44	<100	TM173	<100	5630	1100	283	<100	<100	<100	<100
	µg/kg									
Total Aromatics >EC12-EC44	<100	TM173	<100	104000	20300	3390	<100	<100	<100	<100
	µg/kg									
Total Aliphatics & Aromatics >C5-C44	<100	TM173	19300	121000	25600	14000	1800	<100	<100	<100
	µg/kg									



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

VOC MS (S)

Results Legend		Customer Sample Ref.	BH243	BH243	BH243	BH243	BH243	BH243	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	11.00 - 12.00	13.00 - 14.00	14.00 - 15.00	
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
aq	Aqueous / settled sample.		22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*@\$	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%	TM116	112	123	108	128	119	125	
			2	@	@	@	@	@	
Toluene-d8**	%	TM116	99.4	102	101	101	95.7	95.7	
			2	@	@	@	@	@	
4-Bromofluorobenzene**	%	TM116	92.4	90.2	97.2	91.8	83.9	72.5	
			2	@	@	@	@	@	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
			2	@	@	@	@	@	
Benzene	<9 µg/kg	TM116	<180	<180	<180	<180	<180	<180	
			2	@	@	@	@	@	
Toluene	<7 µg/kg	TM116	<140	<140	<140	<140	<140	<140	
			2	@	@	@	@	@	
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<80	<80	<80	
			2	@	@	@	@	@	
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
			2	@	@	@	@	@	
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<200	<200	<200	
			2	@	@	@	@	@	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	
			2	@	@	@	@	@	
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<800	<800	<800	
			2	@	@	@	@	@	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Asbestos Identification - Solid Samples

Results Legend

- # ISO17025 accredited.
- M mCERTS accredited.
- * Subcontracted test.
- (F) Trigger breach confirmed
- 1-5&*\$@ Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 0.00 - 0.50 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209793 TM048	7/02/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 0.50 - 1.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209794 TM048	07/02/2019	Renata Bozhkov	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 1.00 - 2.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209795 TM048	07/02/2019	Renata Bozhkov	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 11.00 - 12.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209805 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 13.00 - 14.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209807 TM048	07/02/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 14.00 - 15.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209808 TM048	07/02/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 15.00 - 16.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209809 TM048	07/02/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 2.00 - 3.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209796 TM048	07/02/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152	Client Reference: 602387	Report Number: 494343	Superseded Report: 492554
Location: City Block 9	Order Number: P2021550		

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 4.00 - 5.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209798 TM048	07/02/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 5.00 - 6.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209799 TM048	07/02/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 6.00 - 7.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209800 TM048	07/02/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH243 8.00 - 9.00 MISC_SOLID 22/01/2019 00:00:00 25/01/2019 09:15:00 190126-152 19209802 TM048	07/02/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152	Client Reference: 602387	Report Number: 494343	Superseded Report: 492554
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)
Mass of dry sample (kg)	0.090	19
Particle Size <4mm	>95%	Dry Matter Content (%)
		84

Case	
SDG	190126-152
Lab Sample Number(s)	19209793
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.89
Loss on Ignition (%)	3.37
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.9
PAH Sum of 17 (mg/kg)	164
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0473
ANC to pH 4 (mol/kg)	0.152

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00333	<0.0005	0.0333	<0.005	0.5	2	25
Barium	0.0349	<0.0002	0.349	<0.002	20	100	300
Cadmium	0.000168	<0.00008	0.00168	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00978	<0.0003	0.0978	<0.003	2	50	100
Mercury Dissolved (CVAf)	0.0000112	<0.00001	0.000112	<0.0001	0.01	0.2	2
Molybdenum	0.0189	<0.003	0.189	<0.03	0.5	10	30
Nickel	0.00106	<0.0004	0.0106	<0.004	0.4	10	40
Lead	0.0038	<0.0002	0.038	<0.002	0.5	10	50
Antimony	0.00403	<0.001	0.0403	<0.01	0.06	0.7	5
Selenium	0.00179	<0.001	0.0179	<0.01	0.1	0.5	7
Zinc	0.0127	<0.001	0.127	<0.01	4	50	200
Chloride	25.6	<2	256	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36.2	<2	362	<20	1000	20000	50000
Total Dissolved Solids	186	<5	1860	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.01	<3	40.1	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.31
Conductivity (µS/cm)	235.00
Temperature (°C)	16.70
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.108	Natural Moisture Content (%)	20.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	83
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209794
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.403
Loss on Ignition (%)	1.35
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.5
PAH Sum of 17 (mg/kg)	127
pH (pH Units)	8.36
ANC to pH 6 (mol/kg)	0.0528
ANC to pH 4 (mol/kg)	0.132

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0018	<0.0005	0.018	<0.005	0.5	2	25
Barium	0.0047	<0.0002	0.047	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00319	<0.0003	0.0319	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00521	<0.003	0.0521	<0.03	0.5	10	30
Nickel	0.000453	<0.0004	0.00453	<0.004	0.4	10	40
Lead	0.00052	<0.0002	0.0052	<0.002	0.5	10	50
Antimony	0.00105	<0.001	0.0105	<0.01	0.06	0.7	5
Selenium	0.00104	<0.001	0.0104	<0.01	0.1	0.5	7
Zinc	0.00111	<0.001	0.0111	<0.01	4	50	200
Chloride	29	<2	290	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	15.9	<2	159	<20	1000	20000	50000
Total Dissolved Solids	133	<5	1330	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.3	<3	33	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.51
Conductivity (µS/cm)	181.00
Temperature (°C)	17.00
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152	Client Reference: 602387	Report Number: 494343	
Location: City Block 9	Order Number: P2021550	Superseded Report: 492554	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.125	Natural Moisture Content (%)	38.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	72
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209795
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.19
Loss on Ignition (%)	5.48
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0611
ANC to pH 4 (mol/kg)	0.709

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00592	<0.0005	0.0592	<0.005	0.5	2	25
Barium	0.0132	<0.0002	0.132	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00155	<0.0003	0.0155	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0433	<0.003	0.433	<0.03	0.5	10	30
Nickel	0.00117	<0.0004	0.0117	<0.004	0.4	10	40
Lead	0.000691	<0.0002	0.00691	<0.002	0.5	10	50
Antimony	0.00381	<0.001	0.0381	<0.01	0.06	0.7	5
Selenium	0.00101	<0.001	0.0101	<0.01	0.1	0.5	7
Zinc	0.00266	<0.001	0.0266	<0.01	4	50	200
Chloride	11.6	<2	116	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	53.2	<2	532	<20	1000	20000	50000
Total Dissolved Solids	222	<5	2220	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.6	<3	66	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	7.70
Conductivity (µS/cm)	295.00
Temperature (°C)	17.30
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209796
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.69
Loss on Ignition (%)	4.4
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	29.6
pH (pH Units)	7.61
ANC to pH 6 (mol/kg)	0.0416
ANC to pH 4 (mol/kg)	0.242

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00482	<0.0005	0.0482	<0.005	0.5	2	25
Barium	0.0134	<0.0002	0.134	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0331	<0.003	0.331	<0.03	0.5	10	30
Nickel	0.00126	<0.0004	0.0126	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00266	<0.001	0.0266	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00482	<0.001	0.0482	<0.01	4	50	200
Chloride	17.9	<2	179	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	104	<2	1040	<20	1000	20000	50000
Total Dissolved Solids	301	<5	3010	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.4	<3	74	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	8.15
Conductivity (µS/cm)	416.00
Temperature (°C)	17.30
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152	Client Reference: 602387	Report Number: 494343	
Location: City Block 9	Order Number: P2021550	Superseded Report: 492554	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.106	Natural Moisture Content (%)	17.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	85
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209798
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.26
Loss on Ignition (%)	3.41
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.18
ANC to pH 6 (mol/kg)	0.0418
ANC to pH 4 (mol/kg)	0.0741

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00232	<0.0005	0.0232	<0.005	0.5	2	25
Barium	0.00958	<0.0002	0.0958	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00189	<0.0003	0.0189	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0209	<0.003	0.209	<0.03	0.5	10	30
Nickel	0.00161	<0.0004	0.0161	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00513	<0.001	0.0513	<0.01	0.06	0.7	5
Selenium	0.00116	<0.001	0.0116	<0.01	0.1	0.5	7
Zinc	0.00234	<0.001	0.0234	<0.01	4	50	200
Chloride	14.6	<2	146	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	101	<2	1010	<20	1000	20000	50000
Total Dissolved Solids	279	<5	2790	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.25	<3	52.5	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.20
Conductivity (µS/cm)	375.00
Temperature (°C)	14.90
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

26/02/2019 16:13:09



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152	Client Reference: 602387	Report Number: 494343	Superseded Report: 492554
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)	19
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	84
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209799
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.4
Loss on Ignition (%)	1.06
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.14
ANC to pH 6 (mol/kg)	0.052
ANC to pH 4 (mol/kg)	0.124

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00259	<0.0005	0.0259	<0.005	0.5	2	25
Barium	0.00414	<0.0002	0.0414	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000446	<0.0003	0.00446	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.029	<0.003	0.29	<0.03	0.5	10	30
Nickel	0.000897	<0.0004	0.00897	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00401	<0.001	0.0401	<0.01	0.06	0.7	5
Selenium	0.00117	<0.001	0.0117	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	7.4	<2	74	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	44.2	<2	442	<20	1000	20000	50000
Total Dissolved Solids	163	<5	1630	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.15	<3	41.5	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.22
Conductivity (µS/cm)	215.00
Temperature (°C)	15.80
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.2
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209800
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.381
Loss on Ignition (%)	0.849
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.0443
ANC to pH 4 (mol/kg)	0.0613

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00146	<0.0005	0.0146	<0.005	0.5	2	25
Barium	0.00402	<0.0002	0.0402	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0156	<0.003	0.156	<0.03	0.5	10	30
Nickel	0.00122	<0.0004	0.0122	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00318	<0.001	0.0318	<0.01	0.06	0.7	5
Selenium	0.00104	<0.001	0.0104	<0.01	0.1	0.5	7
Zinc	0.00164	<0.001	0.0164	<0.01	4	50	200
Chloride	5.4	<2	54	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47.6	<2	476	<20	1000	20000	50000
Total Dissolved Solids	150	<5	1500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	7.56
Conductivity (µS/cm)	186.00
Temperature (°C)	16.60
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	8.11
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.5
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209802
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.316
Loss on Ignition (%)	0.937
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.19
ANC to pH 6 (mol/kg)	0.107
ANC to pH 4 (mol/kg)	0.329

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00541	<0.0005	0.0541	<0.005	0.5	2	25
Barium	0.00616	<0.0002	0.0616	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000362	<0.0003	0.00362	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00889	<0.003	0.0889	<0.03	0.5	10	30
Nickel	0.001	<0.0004	0.01	<0.004	0.4	10	40
Lead	0.000207	<0.0002	0.00207	<0.002	0.5	10	50
Antimony	0.00451	<0.001	0.0451	<0.01	0.06	0.7	5
Selenium	0.00362	<0.001	0.0362	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	18.1	<2	181	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	13.3	<2	133	<20	1000	20000	50000
Total Dissolved Solids	110	<5	1100	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	9.19
Conductivity (µS/cm)	146.00
Temperature (°C)	17.50
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152	Client Reference: 602387	Report Number: 494343	
Location: City Block 9	Order Number: P2021550	Superseded Report: 492554	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209805
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.299
Loss on Ignition (%)	1.44
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.1
ANC to pH 6 (mol/kg)	0.103
ANC to pH 4 (mol/kg)	0.223

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00158	<0.0005	0.0158	<0.005	0.5	2	25
Barium	0.0112	<0.0002	0.112	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00338	<0.003	0.0338	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00116	<0.001	0.0116	<0.01	0.06	0.7	5
Selenium	0.00162	<0.001	0.0162	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	151	<2	1510	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	23.8	<2	238	<20	1000	20000	50000
Total Dissolved Solids	425	<5	4250	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	06-Feb-2019
pH (pH Units)	9.35
Conductivity (µS/cm)	584.00
Temperature (°C)	17.50
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.95
Dry Matter Content (%)	93.5

Case	
SDG	190126-152
Lab Sample Number(s)	19209807
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.52
Loss on Ignition (%)	1.61
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.08
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.7
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.431

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00109	<0.0005	0.0109	<0.005	0.5	2	25
Barium	0.0636	<0.0002	0.636	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	0.000013	<0.00001	0.00013	<0.0001	0.01	0.2	2
Molybdenum	0.0117	<0.003	0.117	<0.03	0.5	10	30
Nickel	0.000763	<0.0004	0.00763	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00369	<0.001	0.0369	<0.01	0.06	0.7	5
Selenium	0.0278	<0.001	0.278	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	183	<2	1830	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.3	<2	413	<20	1000	20000	50000
Total Dissolved Solids	503	<5	5030	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	6.82
Conductivity (µS/cm)	649.00
Temperature (°C)	15.40
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152	Client Reference: 602387	Report Number: 494343	
Location: City Block 9	Order Number: P2021550	Superseded Report: 492554	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.096	Natural Moisture Content (%)	6.27
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	94.1
Particle Size <4mm	>95%		

Case	
SDG	190126-152
Lab Sample Number(s)	19209808
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.568
Loss on Ignition (%)	1.59
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.51

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.000742	<0.0005	0.00742	<0.005	0.5	2	25
Barium	0.0526	<0.0002	0.526	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000826	<0.0003	0.00826	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0205	<0.003	0.205	<0.03	0.5	10	30
Nickel	0.00102	<0.0004	0.0102	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00226	<0.001	0.0226	<0.01	0.06	0.7	5
Selenium	0.0291	<0.001	0.291	<0.01	0.1	0.5	7
Zinc	0.00116	<0.001	0.0116	<0.01	4	50	200
Chloride	158	<2	1580	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	55.3	<2	553	<20	1000	20000	50000
Total Dissolved Solids	450	<5	4500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.54
Conductivity (µS/cm)	575.00
Temperature (°C)	15.30
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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26/02/2019 16:13:09



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.84
Dry Matter Content (%)	93.6

Case	
SDG	190126-152
Lab Sample Number(s)	19209809
Sampled Date	22-Jan-2019
Customer Sample Ref.	BH243
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.711
Loss on Ignition (%)	1.99
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.6
ANC to pH 6 (mol/kg)	0.134
ANC to pH 4 (mol/kg)	1.14

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000629	<0.0005	0.00629	<0.005	0.5	2	25
Barium	0.0523	<0.0002	0.523	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000521	<0.0003	0.00521	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0233	<0.003	0.233	<0.03	0.5	10	30
Nickel	0.00126	<0.0004	0.0126	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00224	<0.001	0.0224	<0.01	0.06	0.7	5
Selenium	0.029	<0.001	0.29	<0.01	0.1	0.5	7
Zinc	0.00404	<0.001	0.0404	<0.01	4	50	200
Chloride	149	<2	1490	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	52.5	<2	525	<20	1000	20000	50000
Total Dissolved Solids	429	<5	4290	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	07-Feb-2019
pH (pH Units)	8.55
Conductivity (µS/cm)	579.00
Temperature (°C)	17.20
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates

26/02/2019 16:13:09



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Table of Results - Appendix

Method No	Reference	Description
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Test Completion Dates

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	19209793	19209794	19209795	19209796	19209798	19209799	19209800	19209802	19209805	19209807
	BH243	BH243	BH243	BH243	BH243	BH243	BH243	BH243	BH243	BH243
	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	11.00 - 12.00	13.00 - 14.00
Unspecified So	Unspecified So	Unspecified So	Unspecified So	Unspecified So	Unspecified So	Unspecified So	Unspecified So	Unspecified So	Unspecified So	Unspecified So
ANC at pH4 and ANC at pH 6	10-Feb-2019	08-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019	10-Feb-2019
Anions by Kone (w)	20-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
CEN 10:1 Leachate (1 Stage)	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	07-Feb-2019
CEN Readings	10-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	09-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	18-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019	15-Feb-2019
Dissolved Organic/Inorganic Carbon	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019	19-Feb-2019
EPH CWG (Aliphatic) GC (S)	09-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019
EPH CWG (Aromatic) GC (S)	09-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019
Fluoride	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	14-Feb-2019	14-Feb-2019	15-Feb-2019	11-Feb-2019
GRO by GC-FID (S)	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	08-Feb-2019	09-Feb-2019	09-Feb-2019	12-Feb-2019
Hexavalent Chromium (s)	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	08-Feb-2019
Loss on Ignition in soils	11-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	08-Feb-2019
Mercury Dissolved	18-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	18-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019	16-Feb-2019
Metals in solid samples by OES	12-Feb-2019	12-Feb-2019	14-Feb-2019	12-Feb-2019	12-Feb-2019	11-Feb-2019	12-Feb-2019	14-Feb-2019	14-Feb-2019	14-Feb-2019
Mineral Oil	07-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
PAH 16 & 17 Calc	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	08-Feb-2019	06-Feb-2019	06-Feb-2019	08-Feb-2019	08-Feb-2019
PAH by GCMS	07-Feb-2019	06-Feb-2019	07-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
PCBs by GCMS	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019
pH	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Phenols by HPLC (W)	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
Sample description	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019	13-Feb-2019
Total Organic Carbon	08-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019	11-Feb-2019	08-Feb-2019	08-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
TPH CWG GC (S)	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	09-Feb-2019	12-Feb-2019
VOC MS (S)	08-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019	07-Feb-2019	07-Feb-2019	08-Feb-2019

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	19209808	19209809
	BH243	BH243
	14.00 - 15.00	15.00 - 16.00
Unspecified So	Unspecified So	
ANC at pH4 and ANC at pH 6	10-Feb-2019	10-Feb-2019
Anions by Kone (w)	20-Feb-2019	21-Feb-2019
Asbestos ID in Solid Samples	07-Feb-2019	07-Feb-2019
CEN 10:1 Leachate (1 Stage)	07-Feb-2019	07-Feb-2019
CEN Readings	10-Feb-2019	10-Feb-2019
Coronene	07-Feb-2019	07-Feb-2019
Dissolved Metals by ICP-MS	15-Feb-2019	15-Feb-2019
Dissolved Organic/Inorganic Carbon	19-Feb-2019	19-Feb-2019
EPH CWG (Aliphatic) GC (S)	09-Feb-2019	08-Feb-2019
EPH CWG (Aromatic) GC (S)	09-Feb-2019	08-Feb-2019
Fluoride	14-Feb-2019	14-Feb-2019
GRO by GC-FID (S)	12-Feb-2019	12-Feb-2019
Hexavalent Chromium (s)	08-Feb-2019	08-Feb-2019
Loss on Ignition in soils	08-Feb-2019	11-Feb-2019
Mercury Dissolved	18-Feb-2019	18-Feb-2019
Metals in solid samples by OES	11-Feb-2019	12-Feb-2019
Mineral Oil	06-Feb-2019	06-Feb-2019
PAH 16 & 17 Calc	06-Feb-2019	08-Feb-2019
PAH by GCMS	06-Feb-2019	06-Feb-2019
PCBs by GCMS	09-Feb-2019	10-Feb-2019
pH	07-Feb-2019	07-Feb-2019
Phenols by HPLC (S)	08-Feb-2019	07-Feb-2019
Phenols by HPLC (W)	26-Feb-2019	26-Feb-2019
Sample description	04-Feb-2019	04-Feb-2019
Total Dissolved Solids	13-Feb-2019	13-Feb-2019
Total Organic Carbon	08-Feb-2019	11-Feb-2019
TPH CWG GC (S)	12-Feb-2019	12-Feb-2019
VOC MS (S)	07-Feb-2019	08-Feb-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

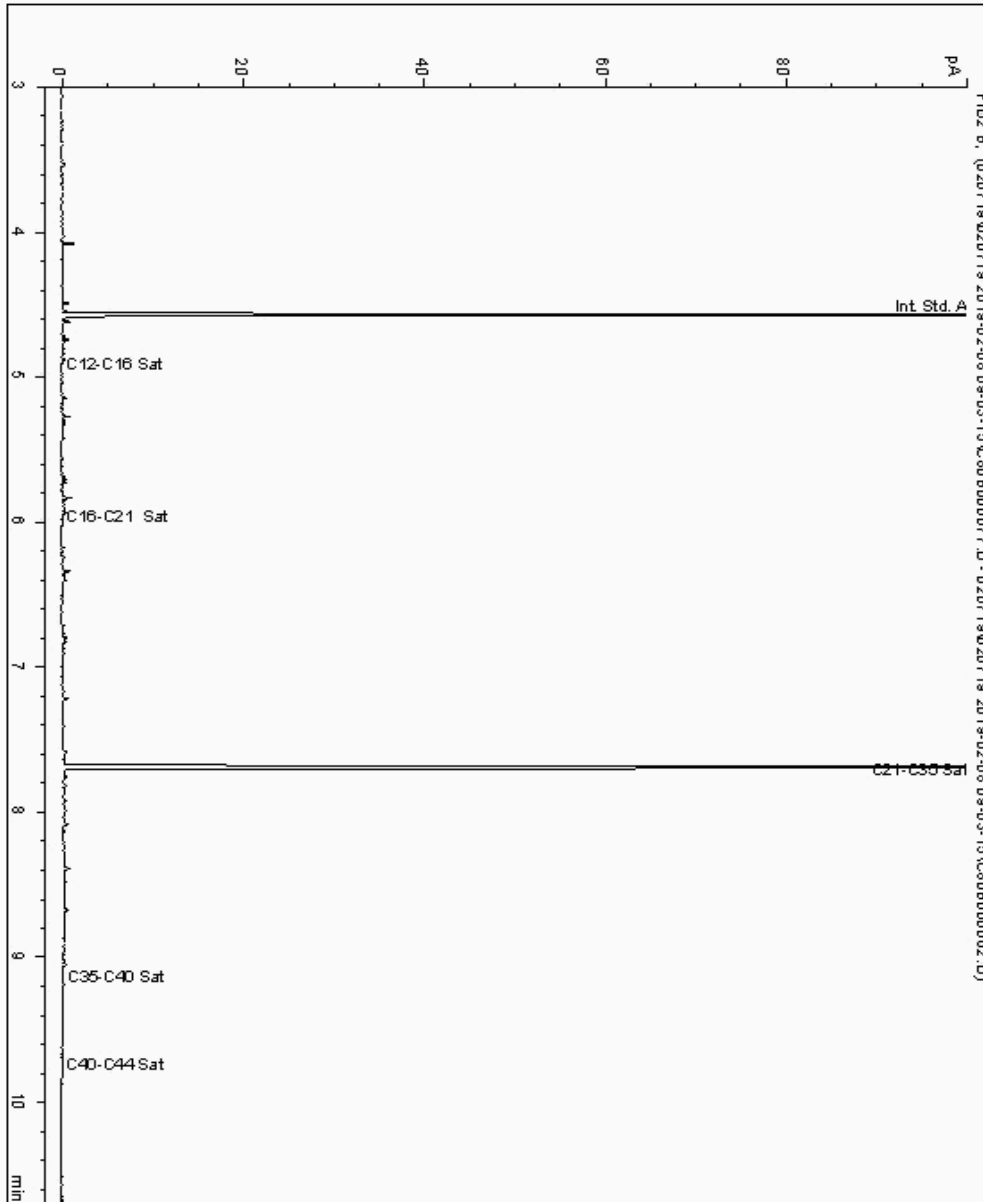
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267195
Sample ID : BH243

Depth : 6.00 - 7.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092527-
Date Acquired : 08/02/19 06:07:01
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

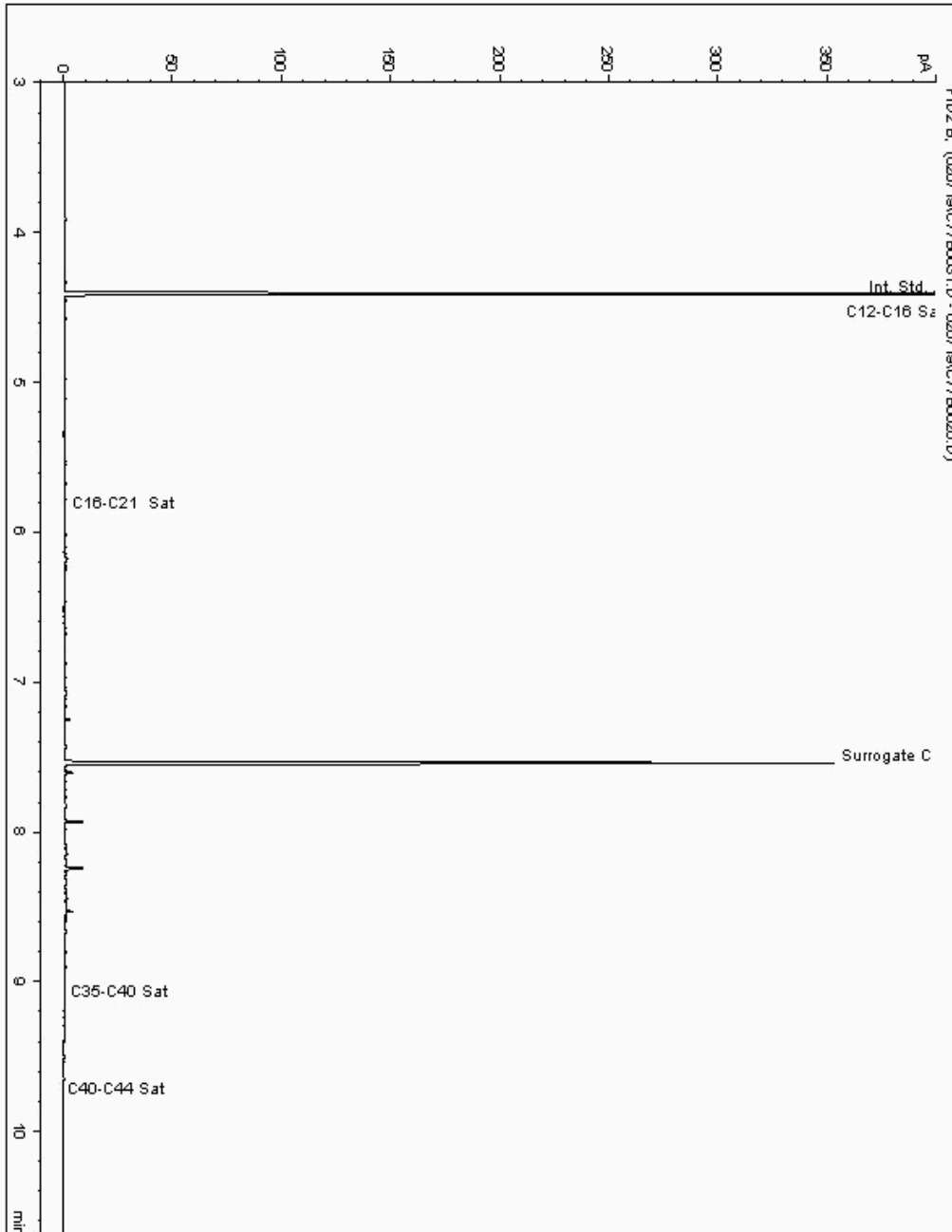
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267261
Sample ID : BH243

Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092330-
Date Acquired : 07/02/2019 21:35:31 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

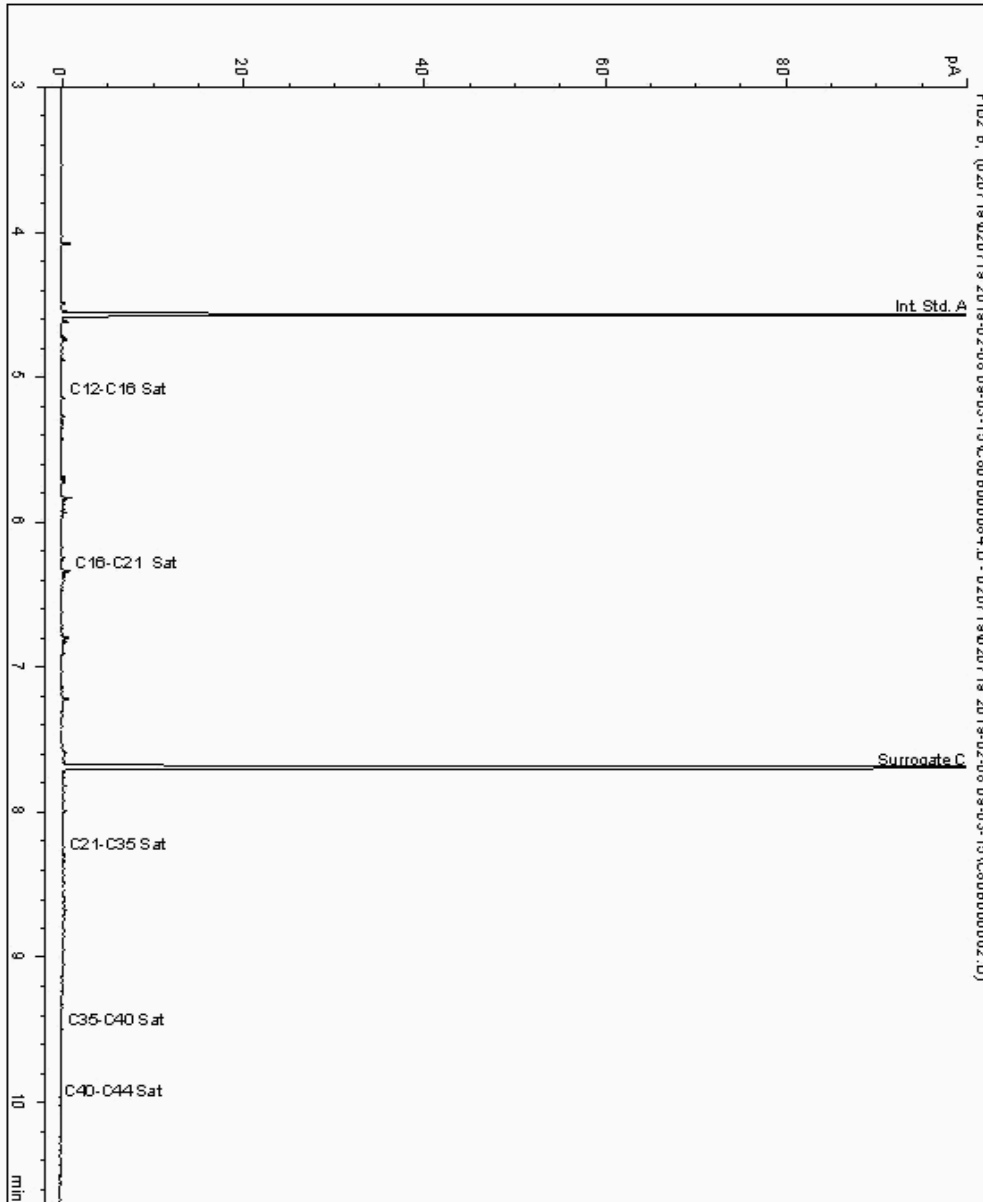
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267313
Sample ID : BH243

Depth : 11.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092672-
Date Acquired : 08/02/19 07:54:46
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

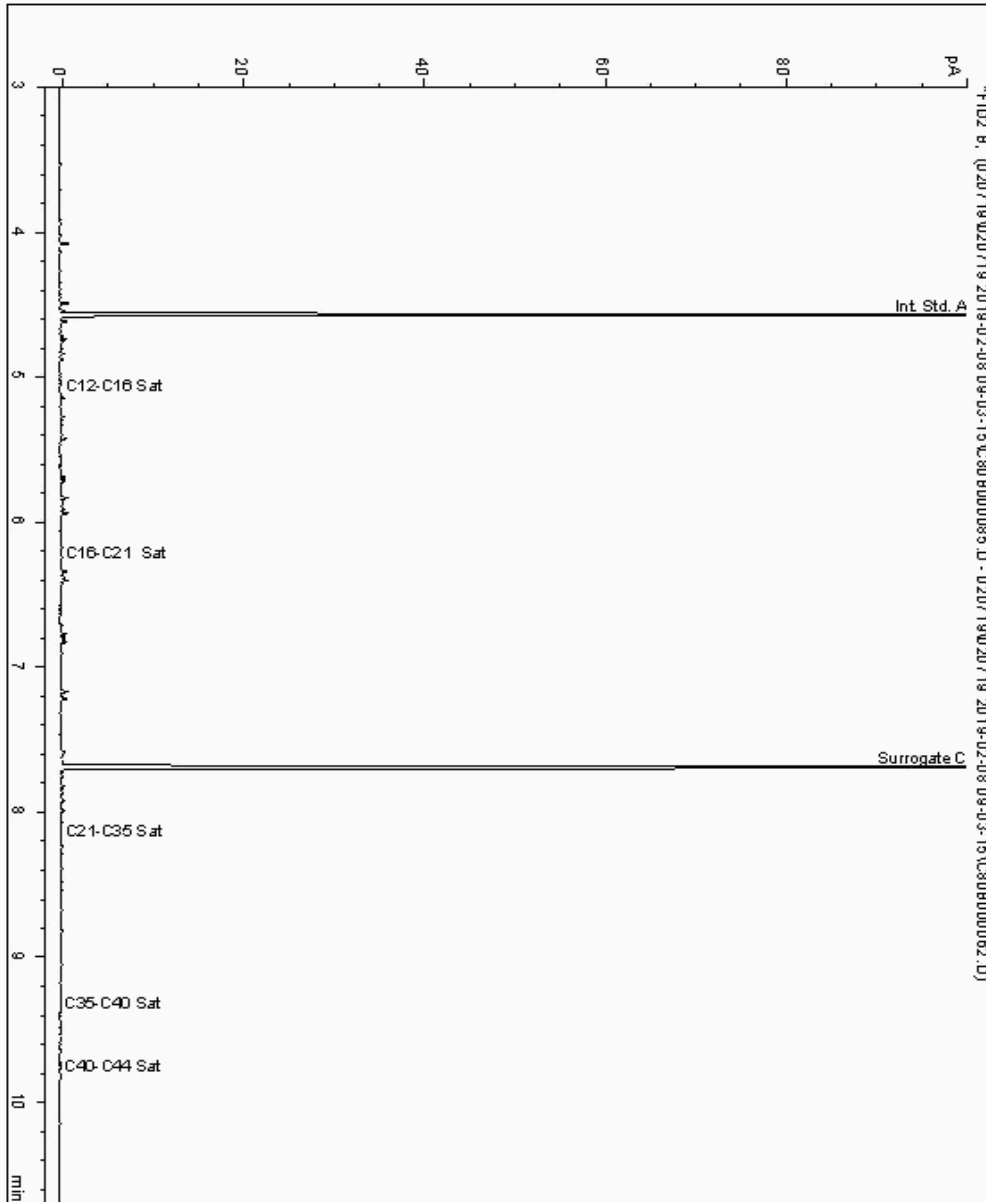
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267373
Sample ID : BH243

Depth : 8.00 - 9.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092596-
Date Acquired : 08/02/19 08:15:11
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

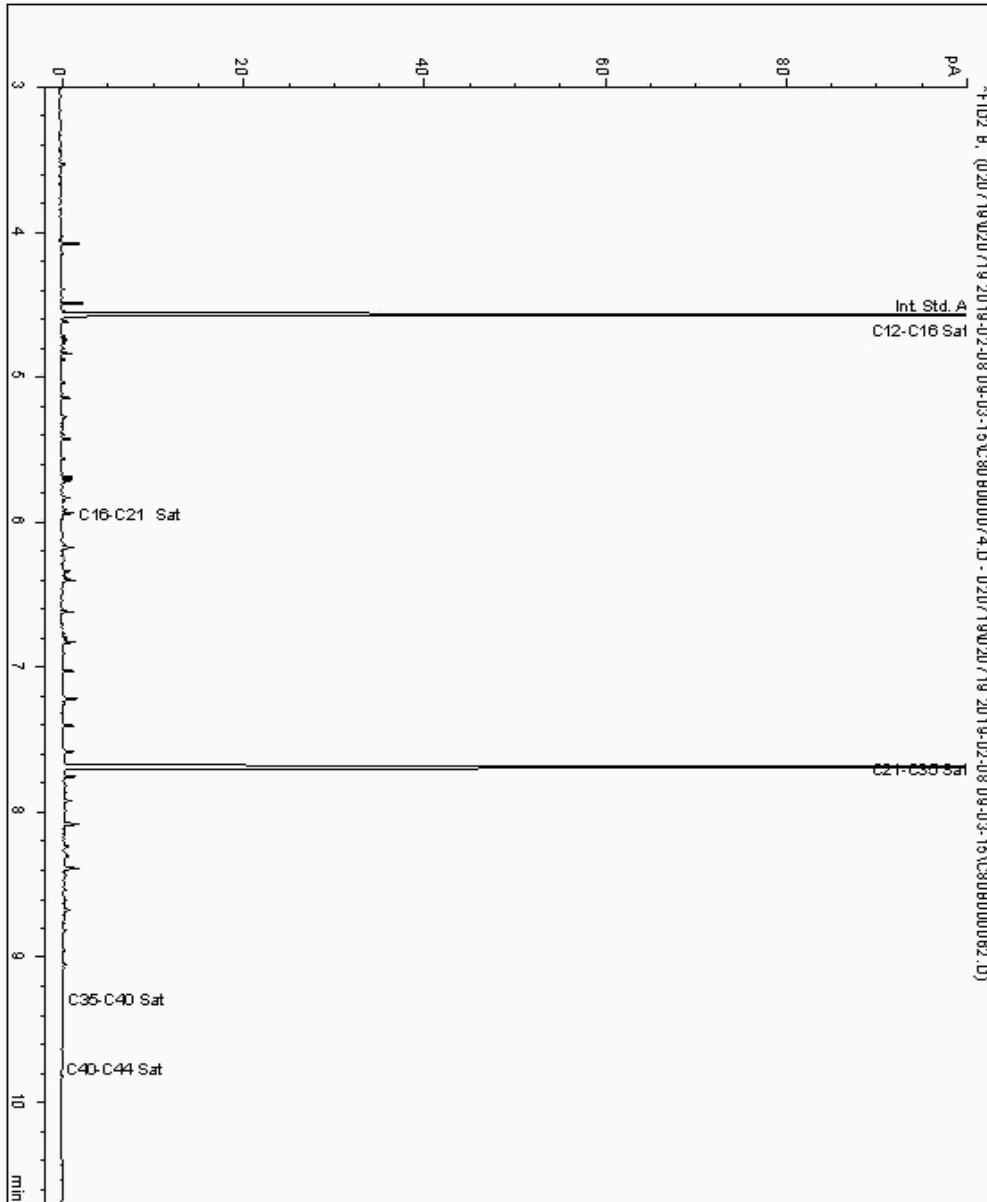
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267426
Sample ID : BH243

Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092063-
Date Acquired : 08/02/19 05:23:06
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

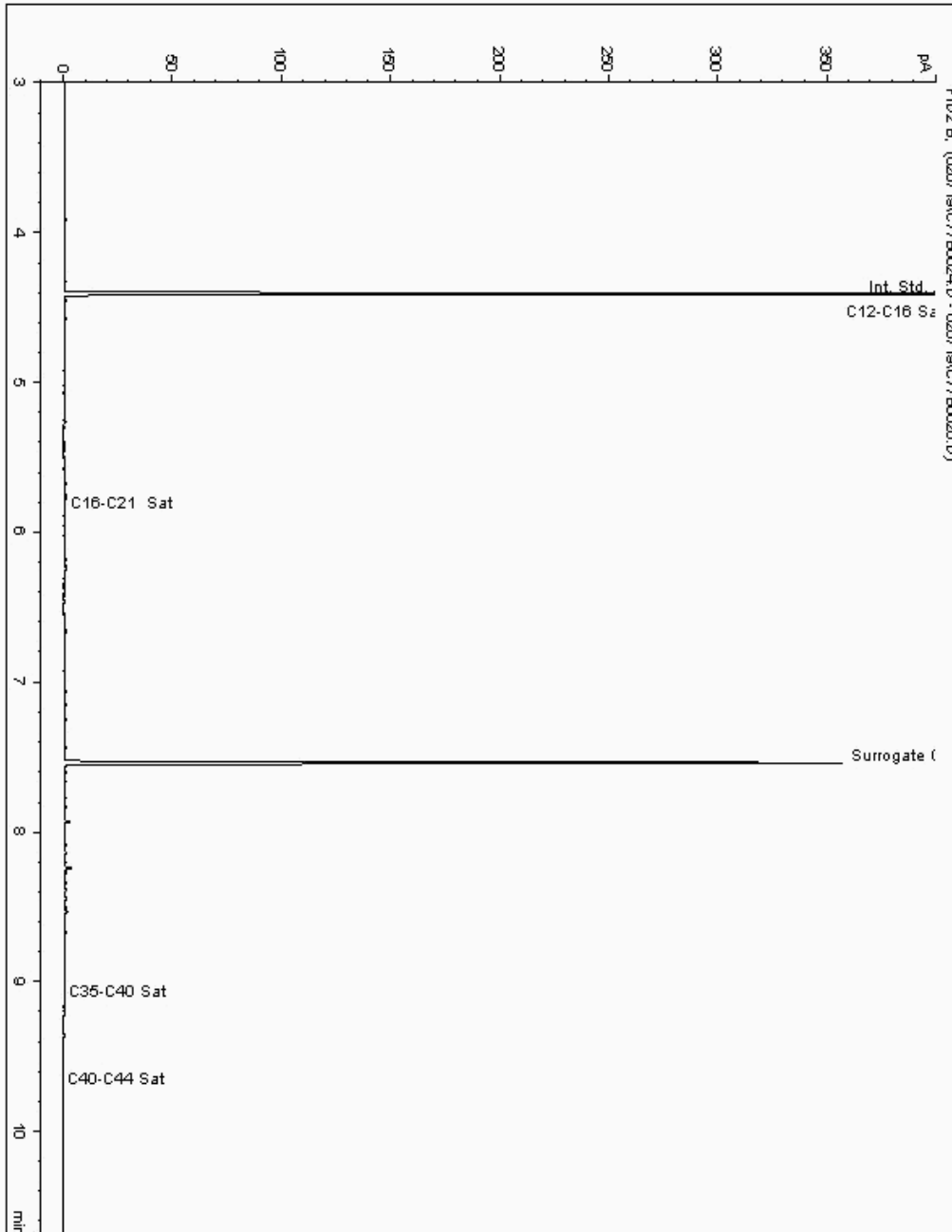
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267478
Sample ID : BH243

Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092233-
Date Acquired : 07/02/2019 19:15:53 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

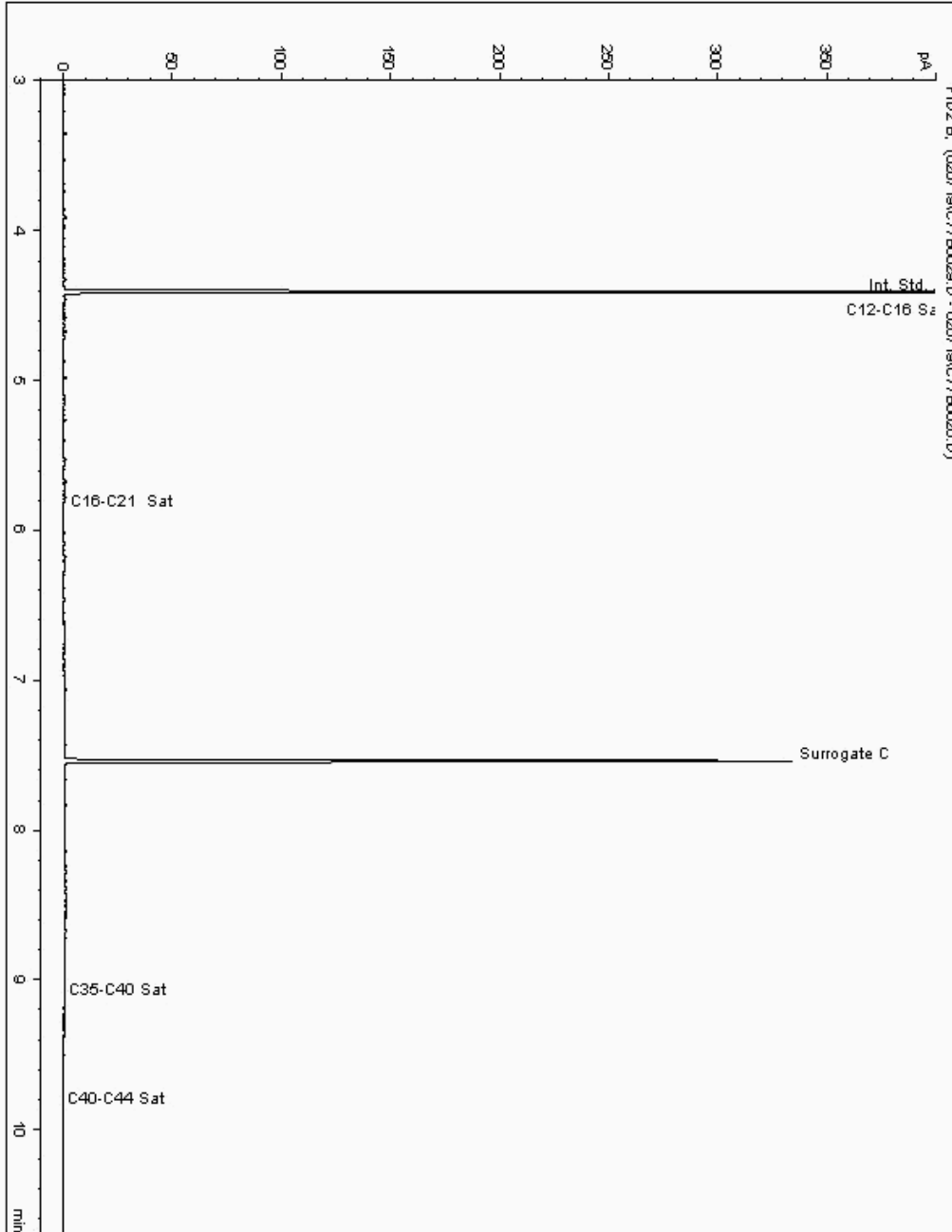
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267541
Sample ID : BH243

Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092744-
Date Acquired : 07/02/2019 20:55:42 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

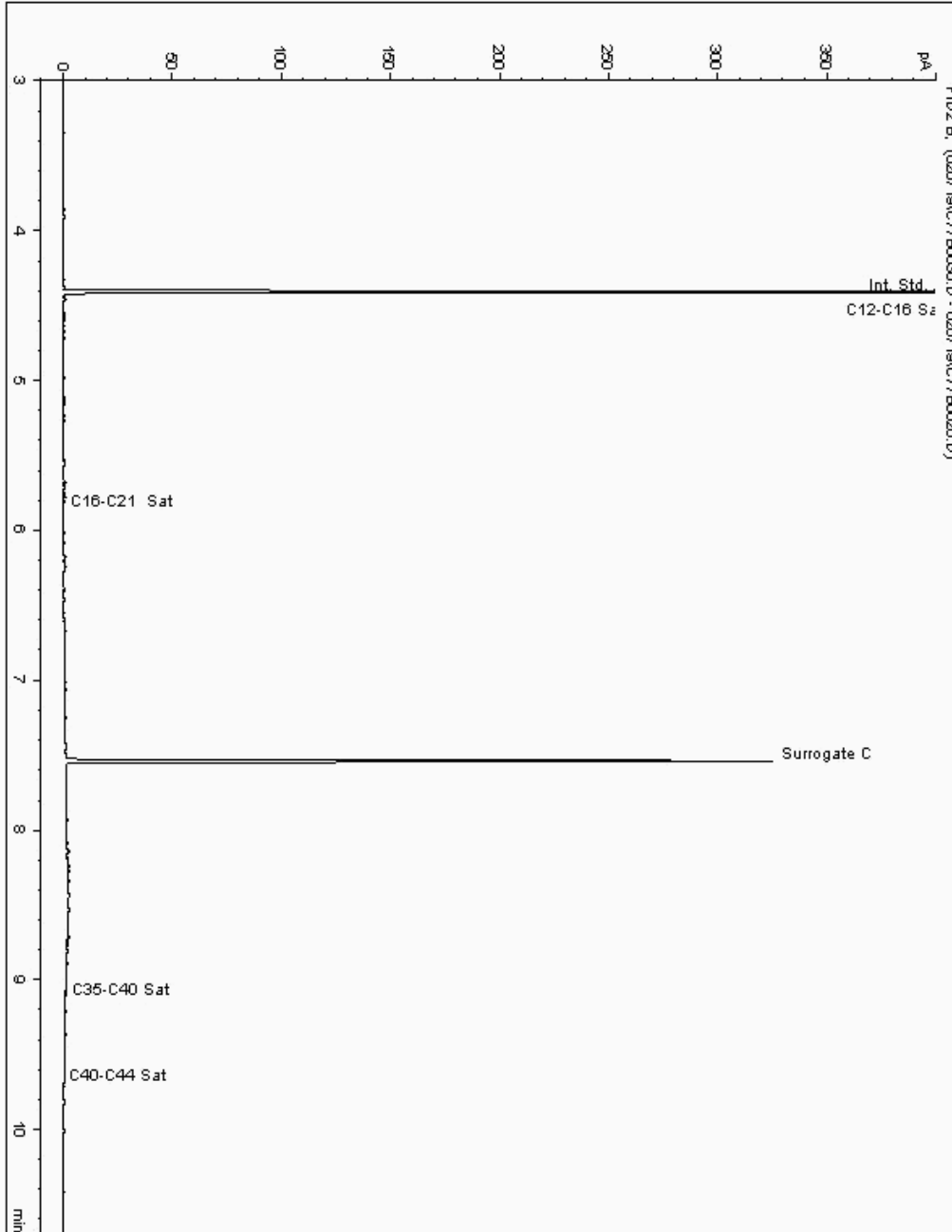
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267588
Sample ID : BH243

Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092160-
Date Acquired : 07/02/2019 23:15:25 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

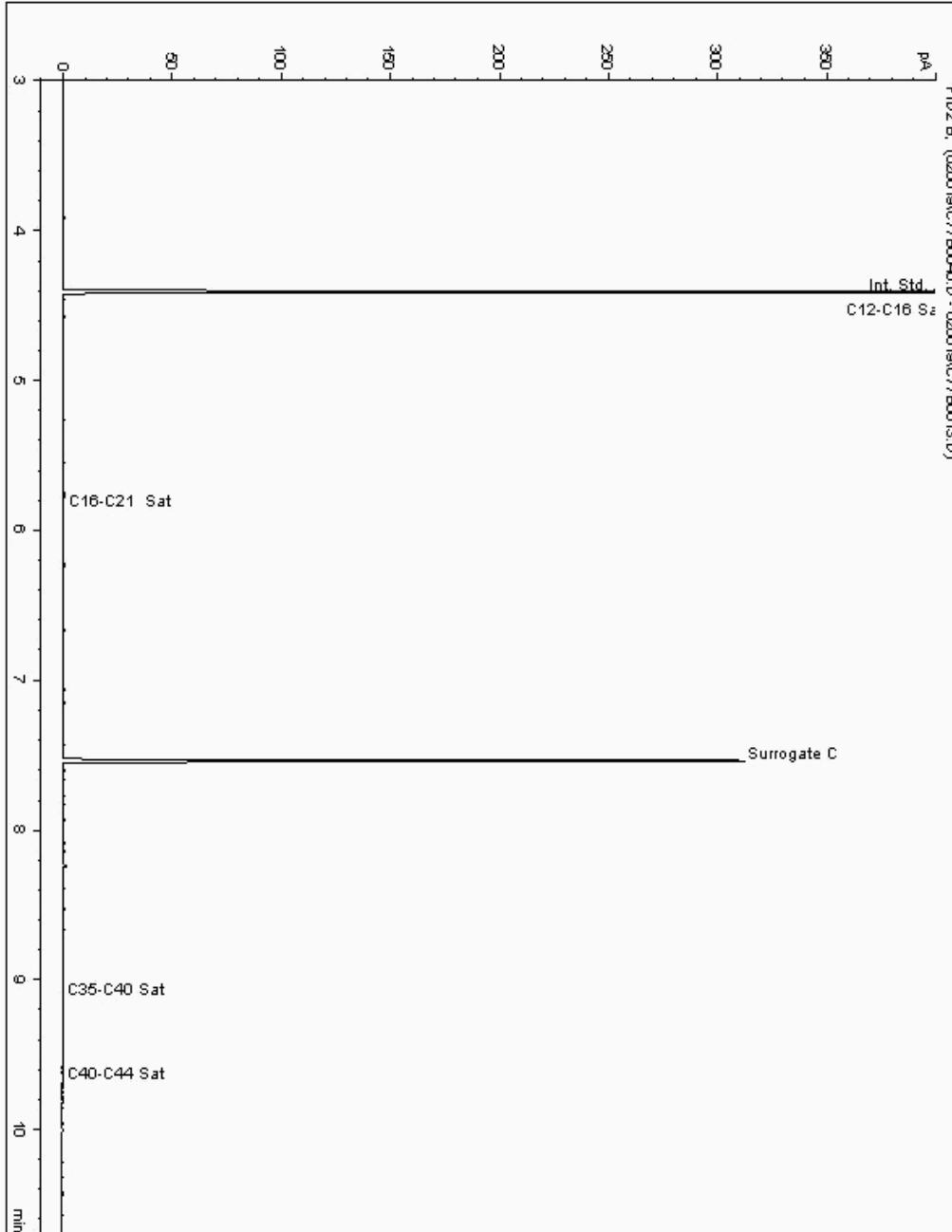
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267633
Sample ID : BH243

Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092442-
Date Acquired : 06/02/2019 18:38:38 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG:	190126-152	Client Reference:	602387	Report Number:	494343
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	492554

Chromatogram

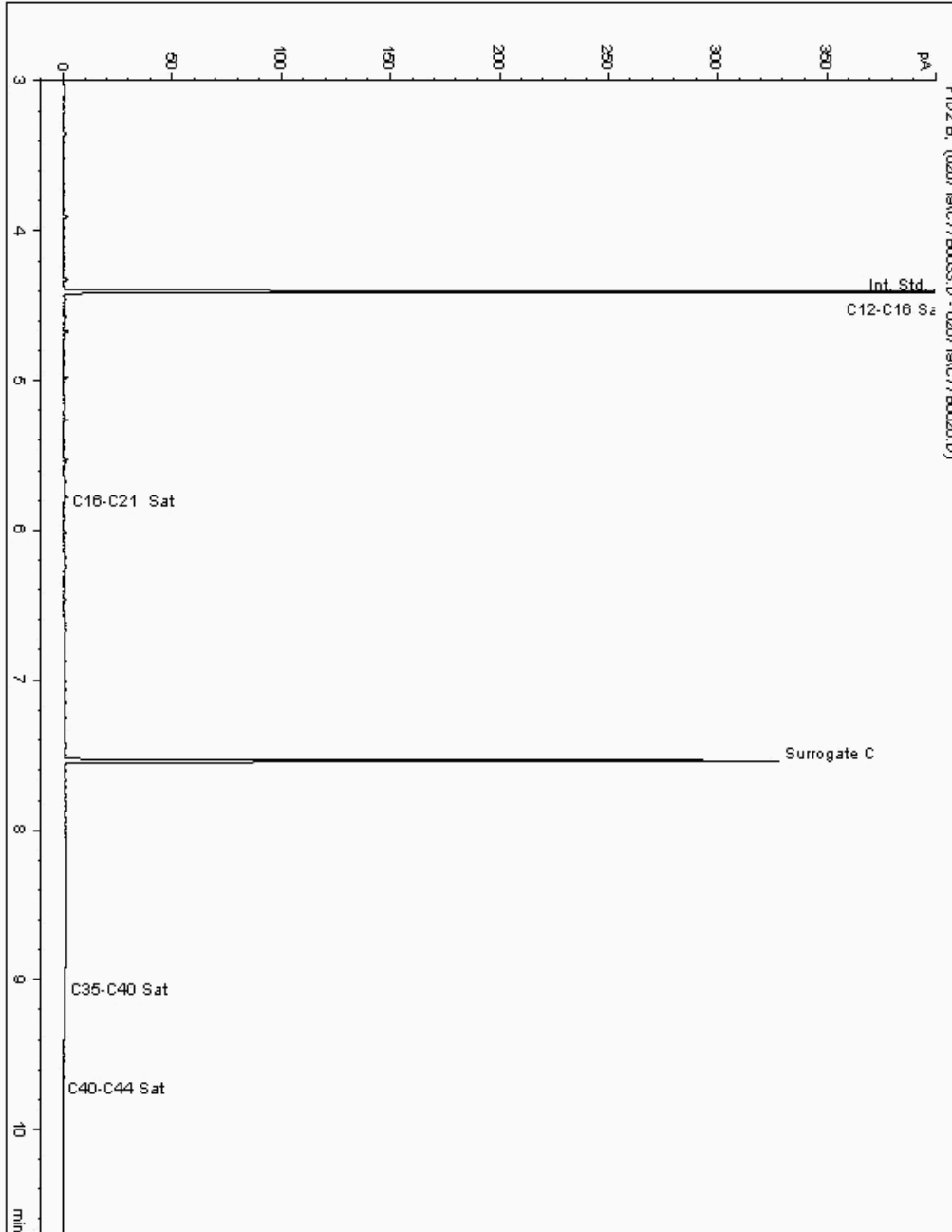
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267720
Sample ID : BH243

Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092918-
Date Acquired : 07/02/2019 22:15:29 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

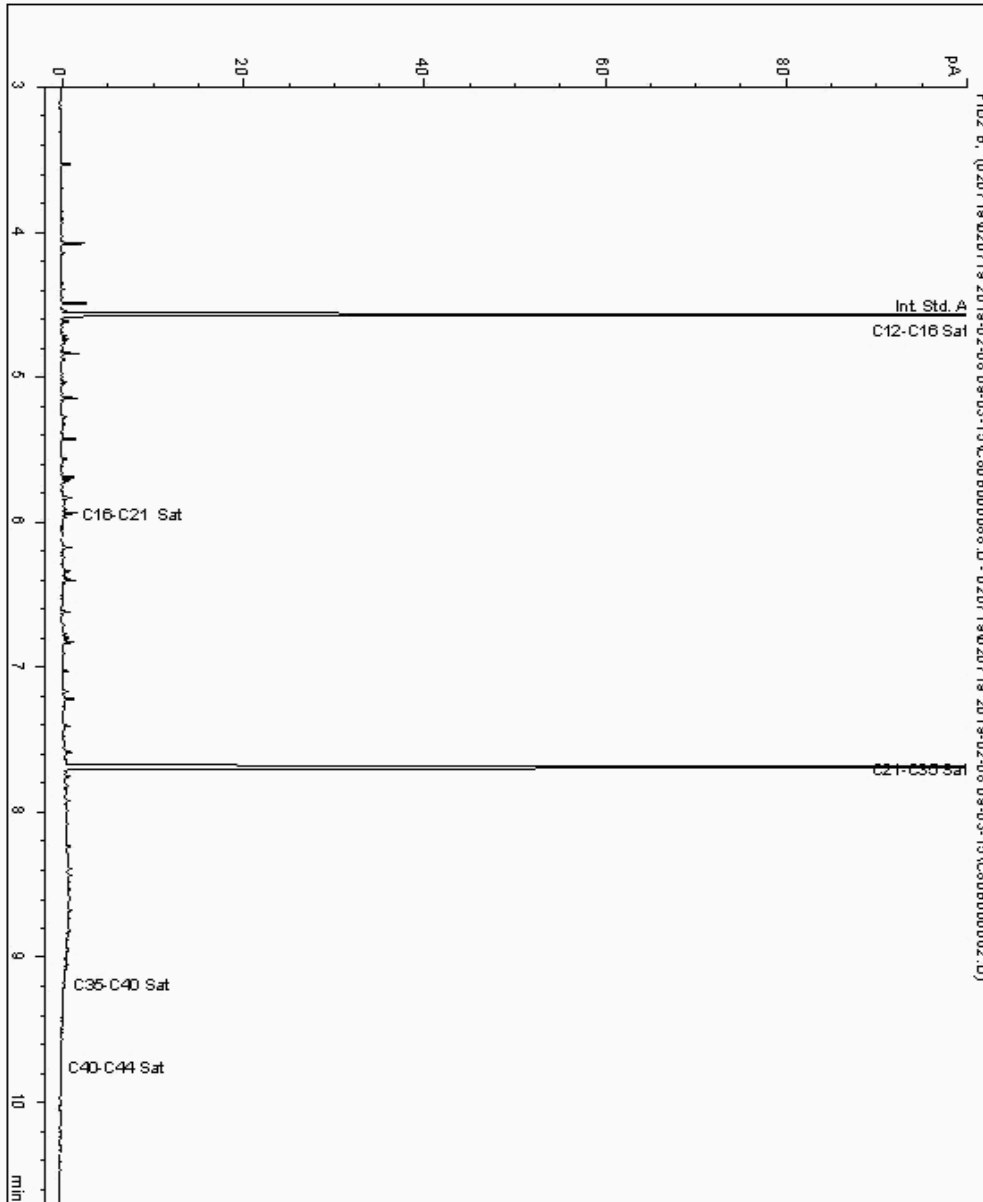
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267815
Sample ID : BH243

Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092804-
Date Acquired : 08/02/19 09:26:02
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





CERTIFICATE OF ANALYSIS

Validated

SDG:	190126-152	Client Reference:	602387	Report Number:	494343
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	492554

Chromatogram

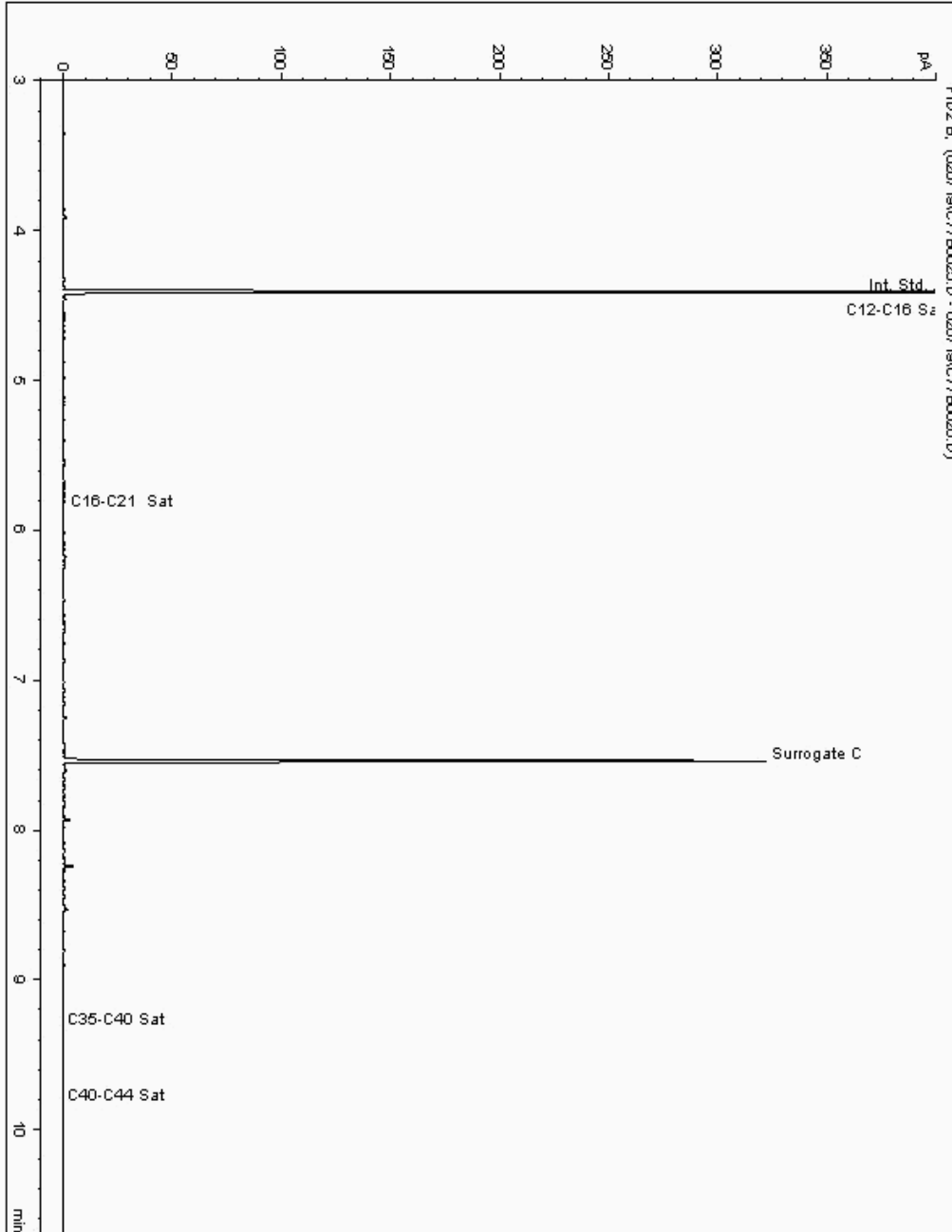
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19267880
Sample ID : BH243

Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092391-
Date Acquired : 07/02/2019 19:35:49 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

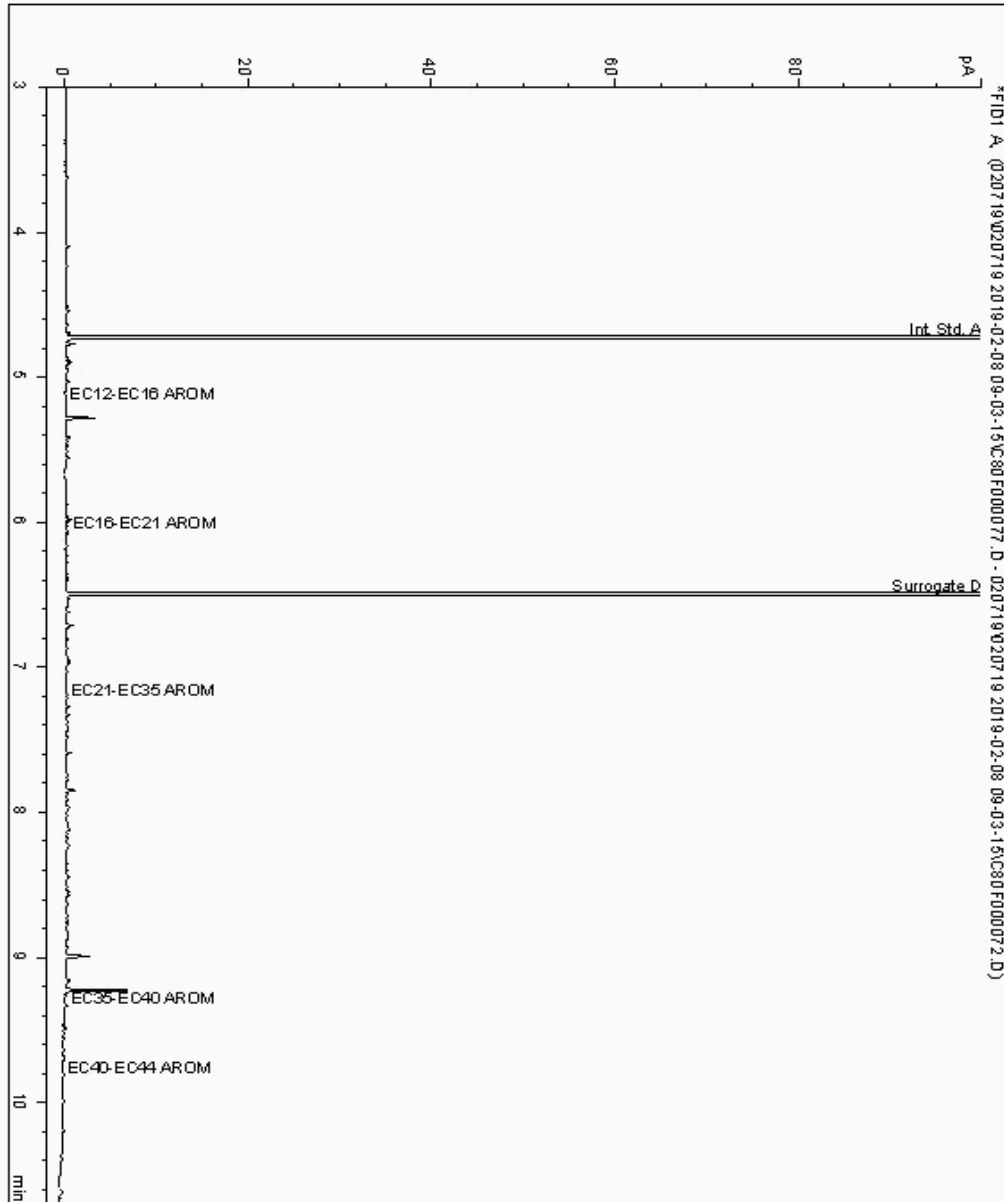
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267195
Sample ID : BH243

Depth : 6.00 - 7.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18092528-
Date Acquired : 08/02/19 06:07:01
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG:	190126-152	Client Reference:	602387	Report Number:	494343
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	492554

Chromatogram

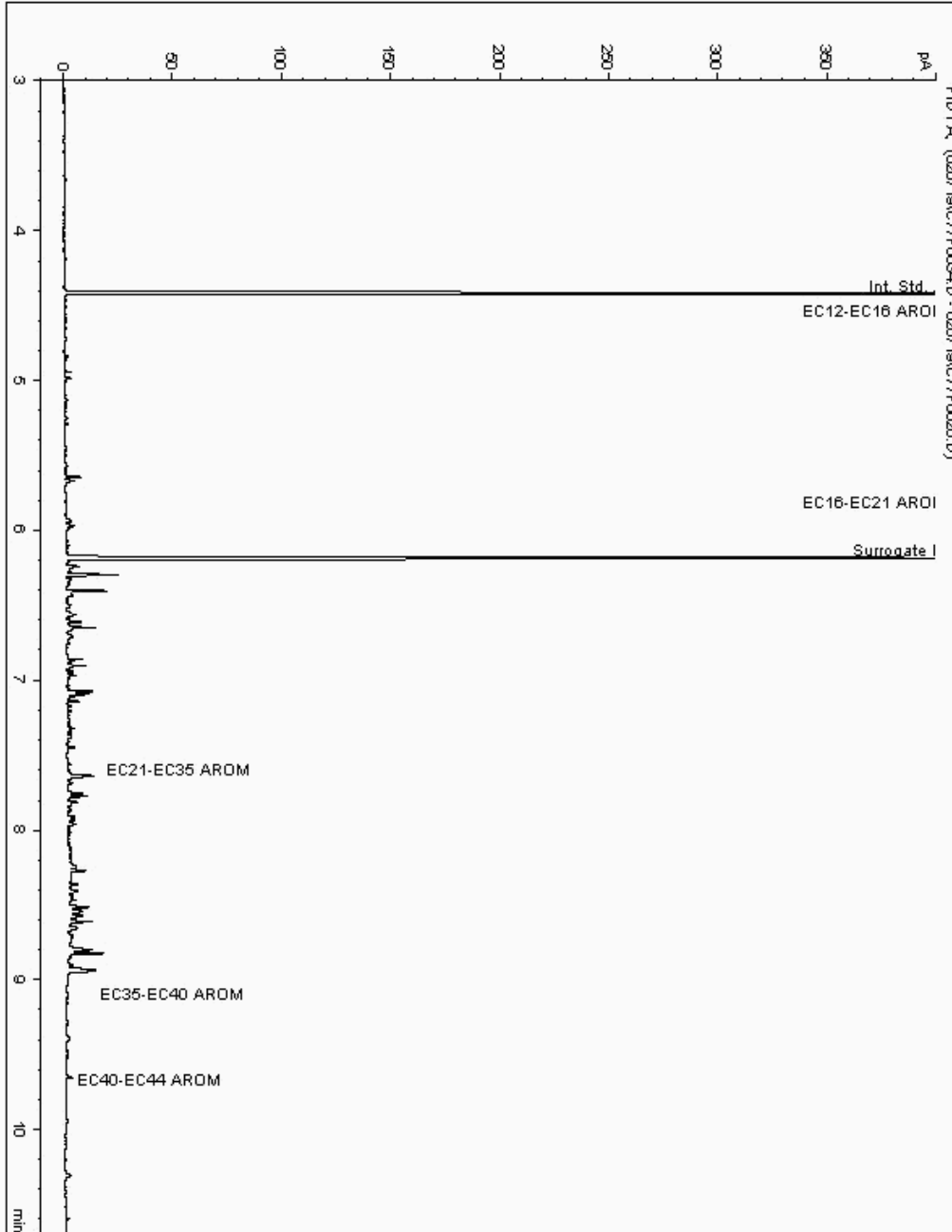
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267261
Sample ID : BH243

Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092331-
Date Acquired : 07/02/2019 22:35:24 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

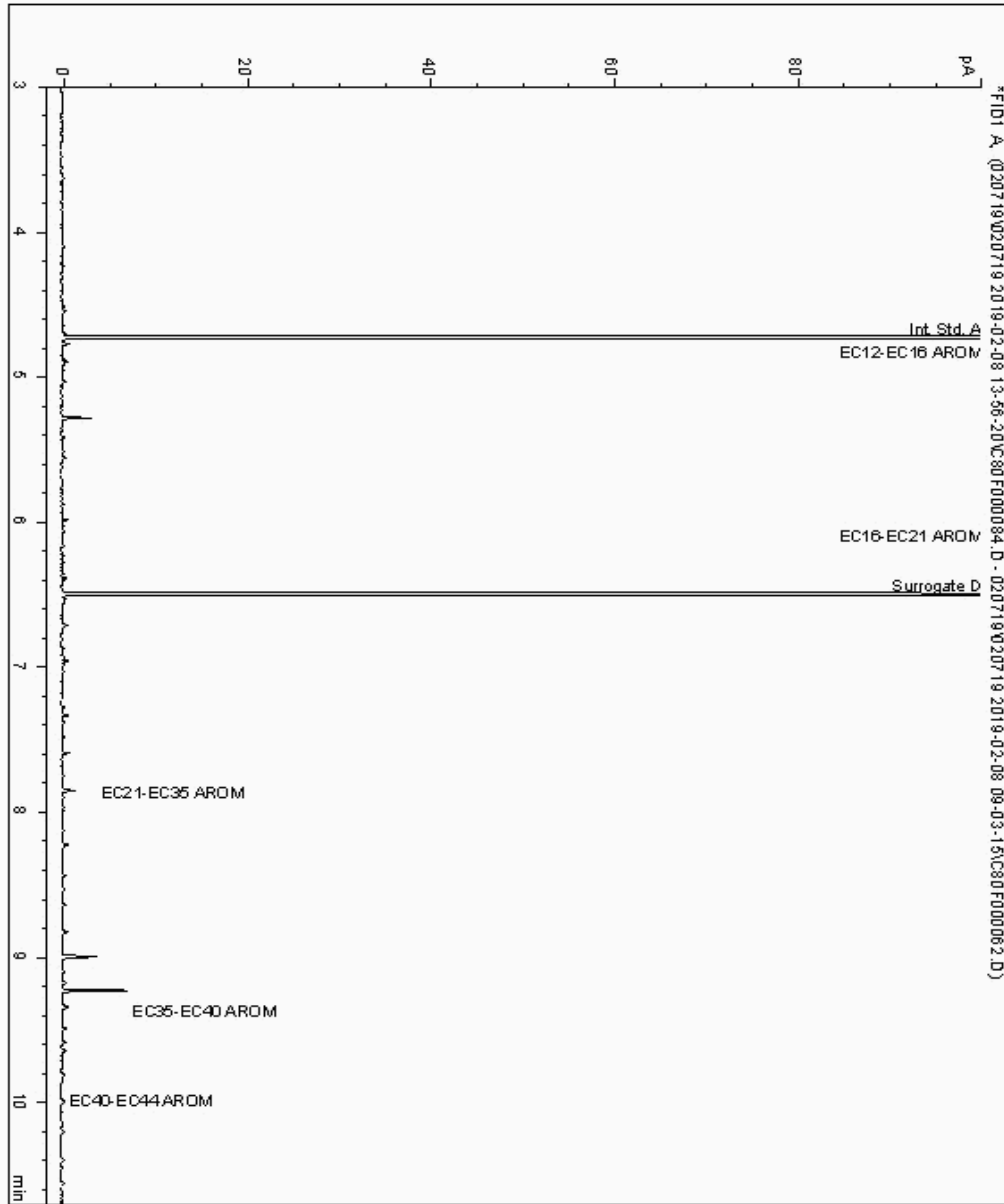
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267313
Sample ID : BH243

Depth : 11.00 - 12.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18092673-
Date Acquired : 08/02/19 12:52:01
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

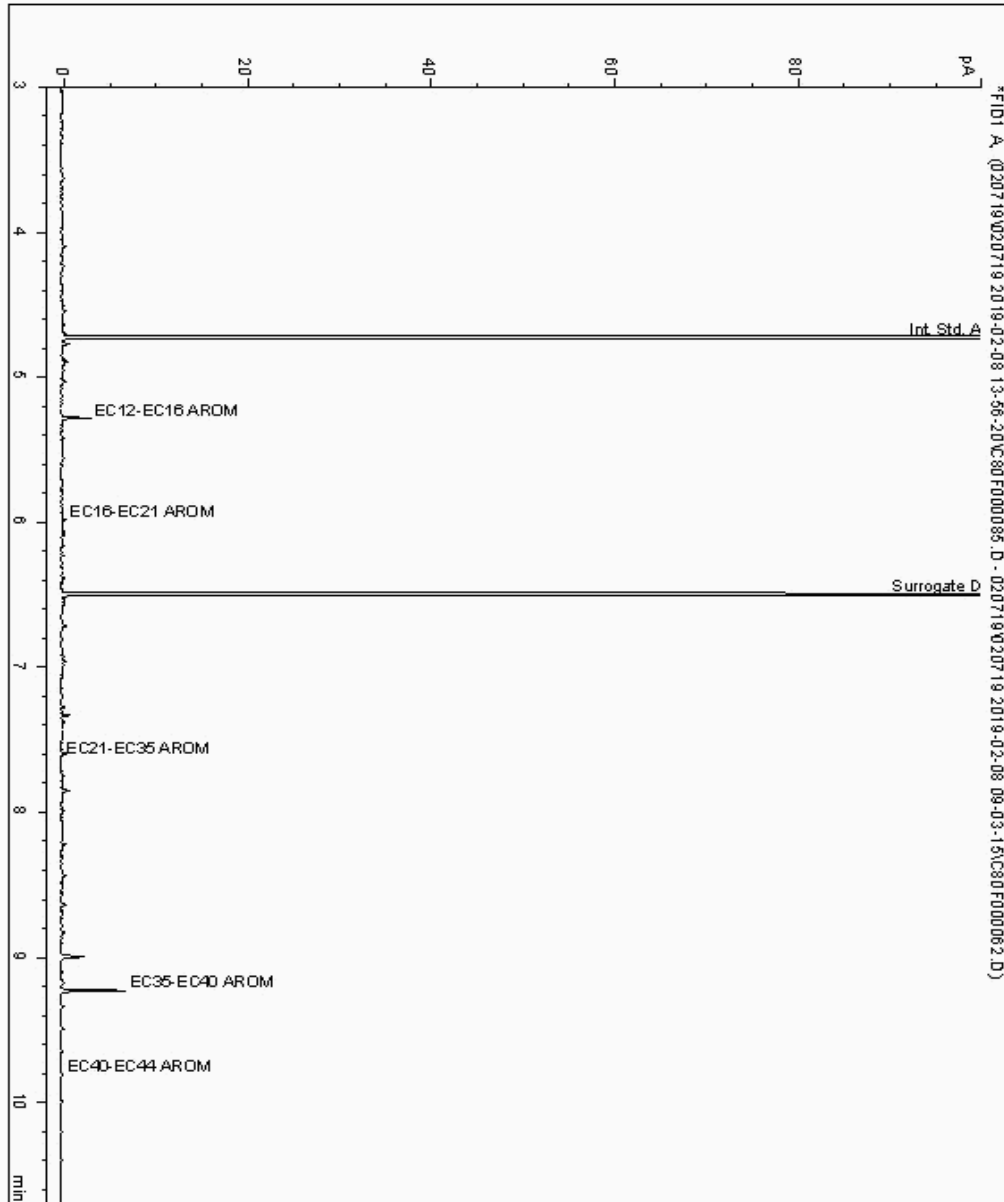
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267373
Sample ID : BH243

Depth : 8.00 - 9.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18092597-
Date Acquired : 08/02/19 13:12:02
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

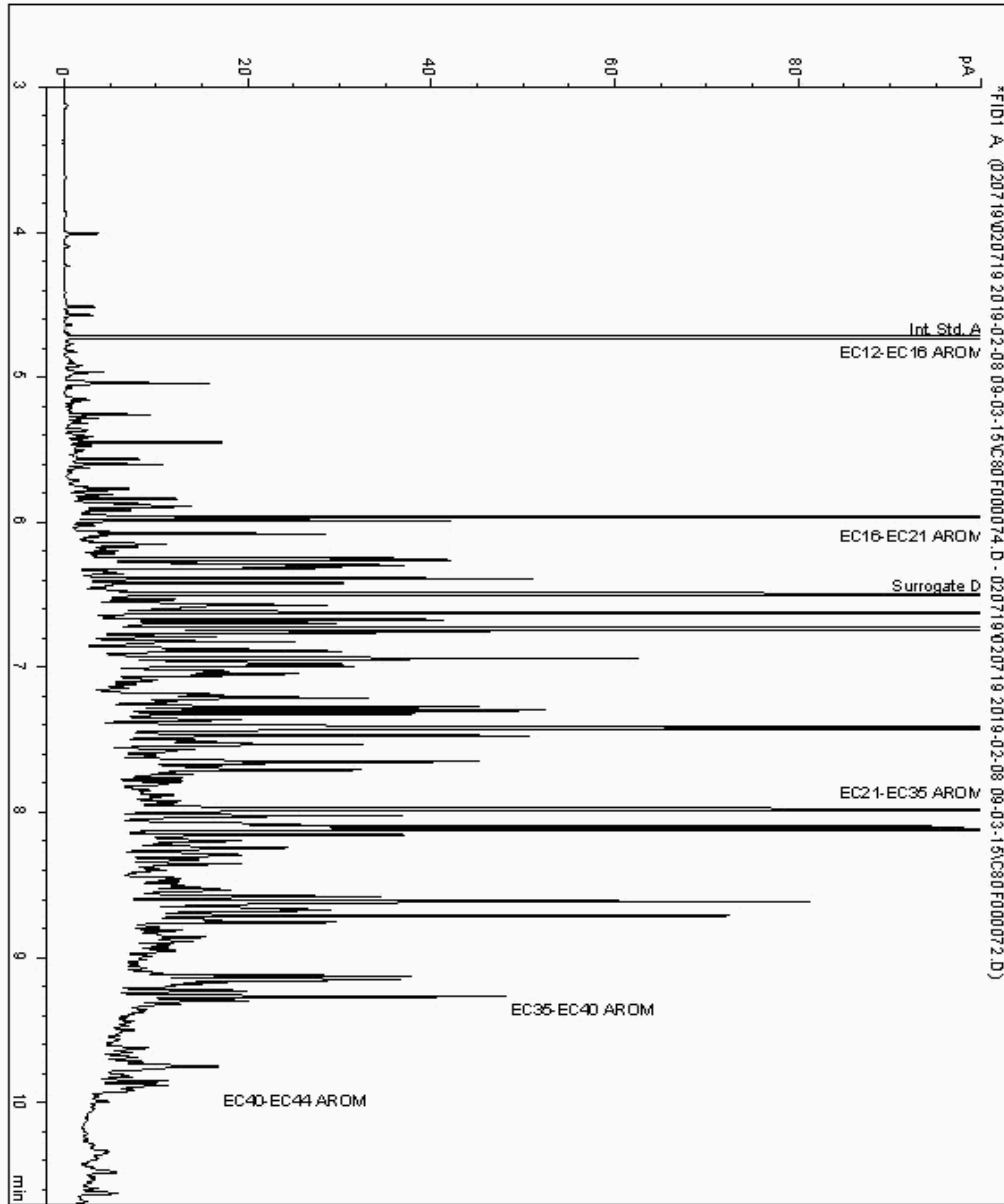
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267426
Sample ID : BH243

Depth : 0.00 - 0.50

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18092064-
Date Acquired : 08/02/19 05:23:06
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

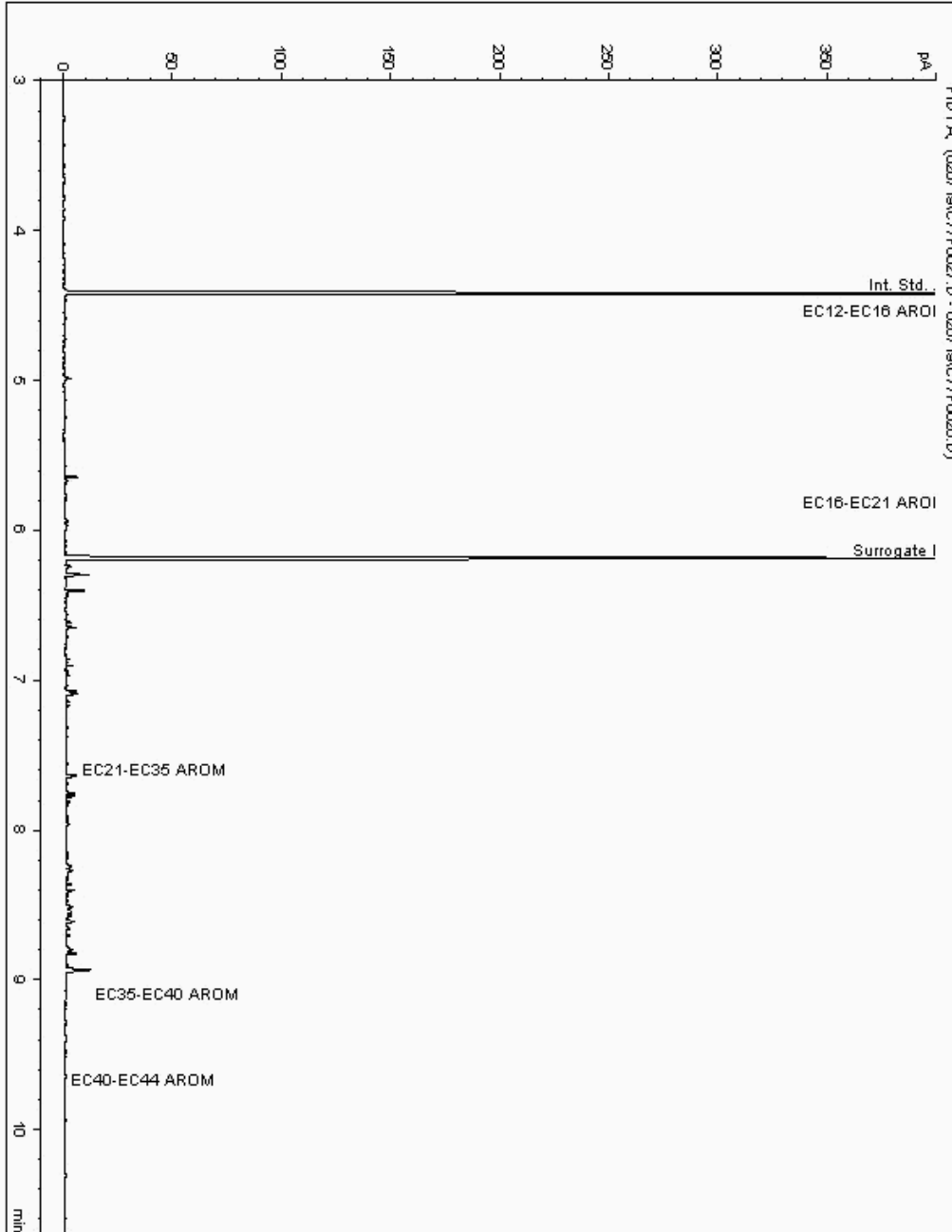
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267478
Sample ID : BH243

Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092234-
Date Acquired : 07/02/2019 20:15:49 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

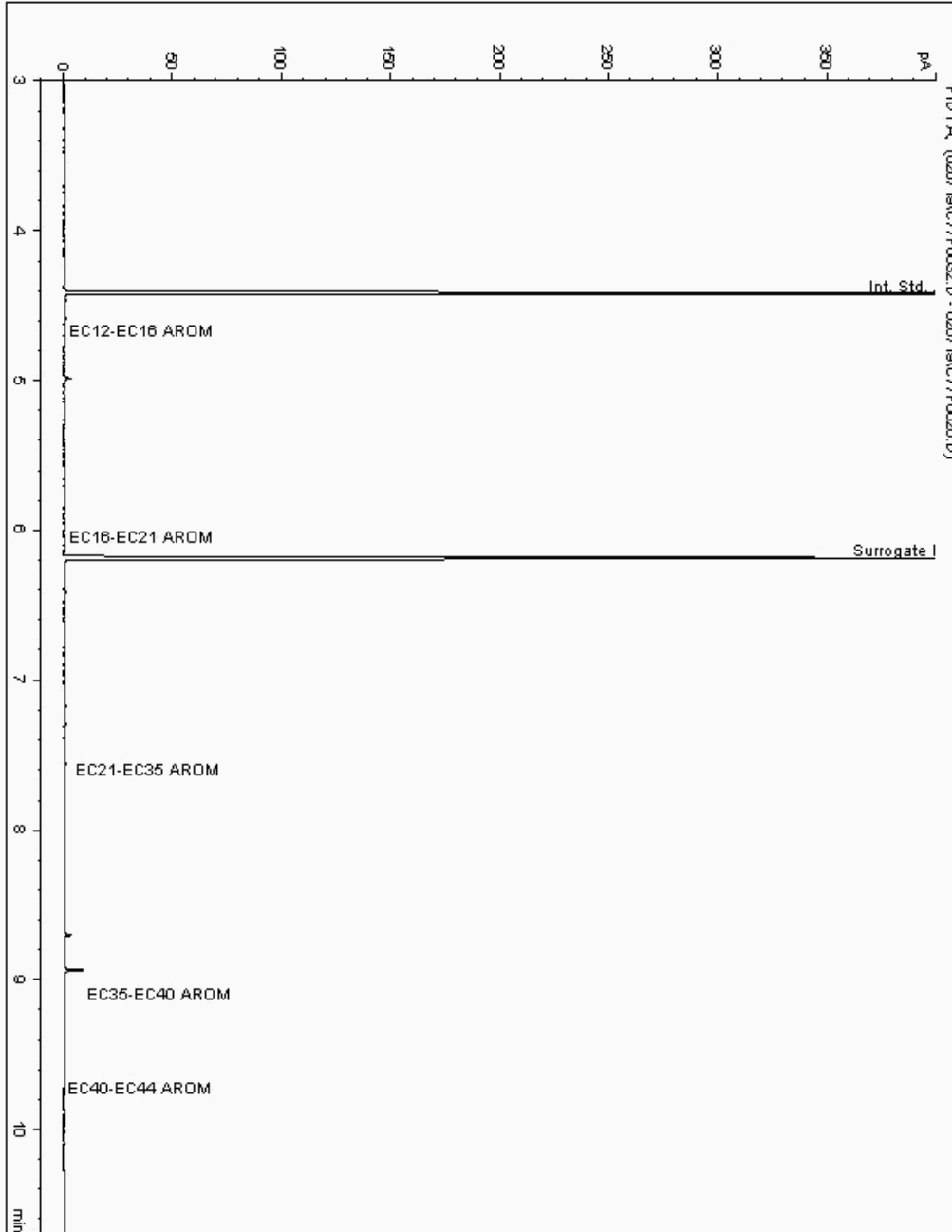
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267541
Sample ID : BH243

Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092745-
Date Acquired : 07/02/2019 21:55:28 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

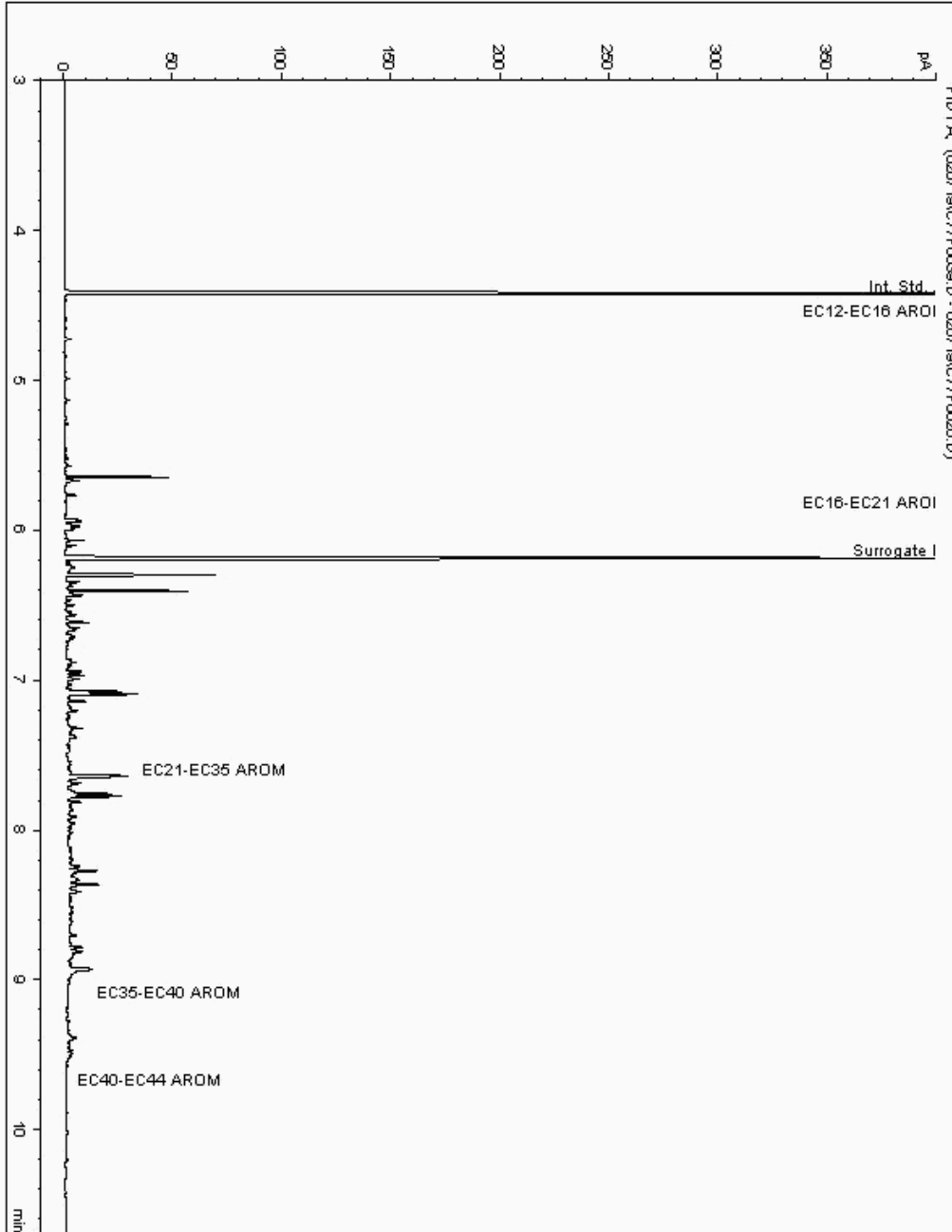
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267588
Sample ID : BH243

Depth : 0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092161-
Date Acquired : 08/02/2019 00:15:33 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

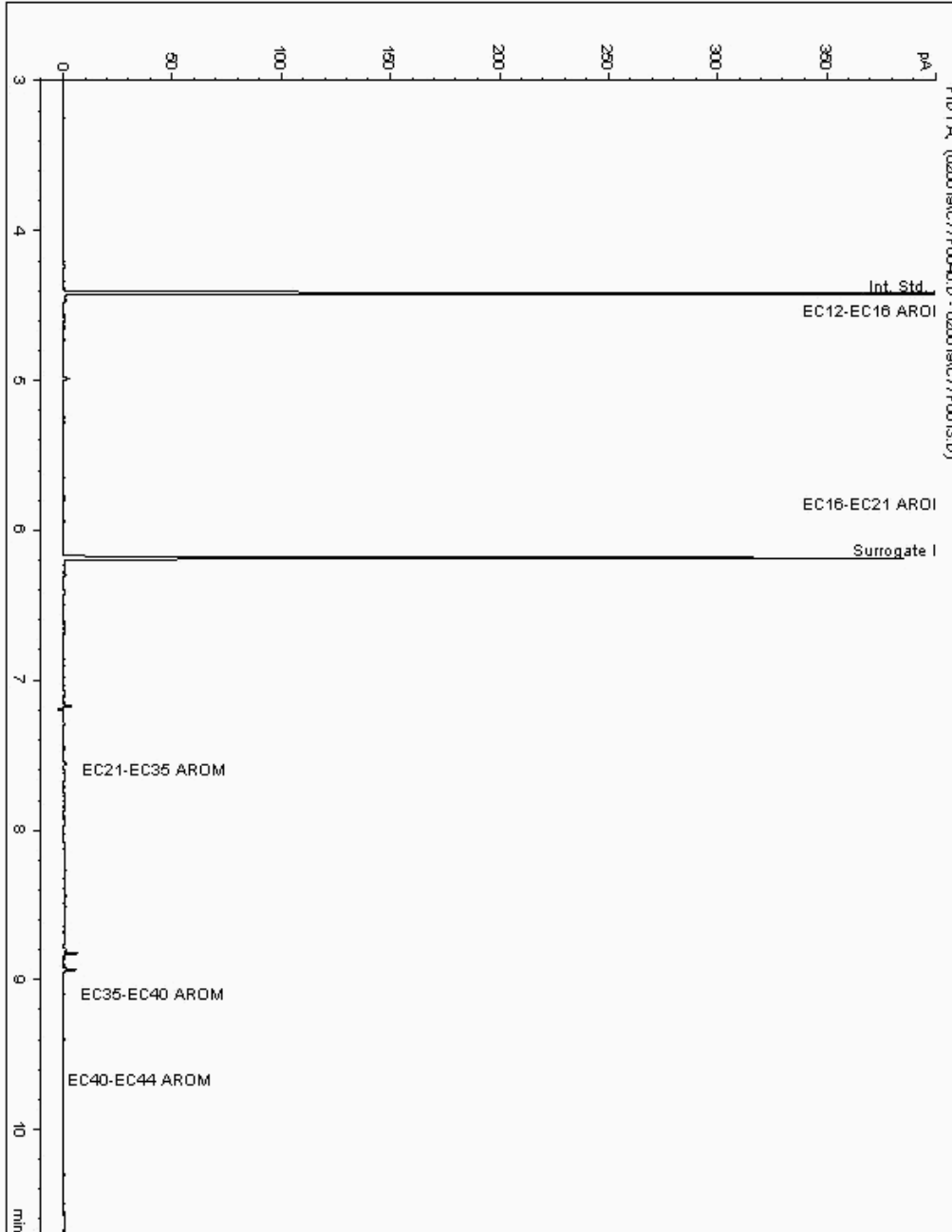
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267633
Sample ID : BH243

Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092443-
Date Acquired : 06/02/2019 18:38:38 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG:	190126-152	Client Reference:	602387	Report Number:	494343
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	492554

Chromatogram

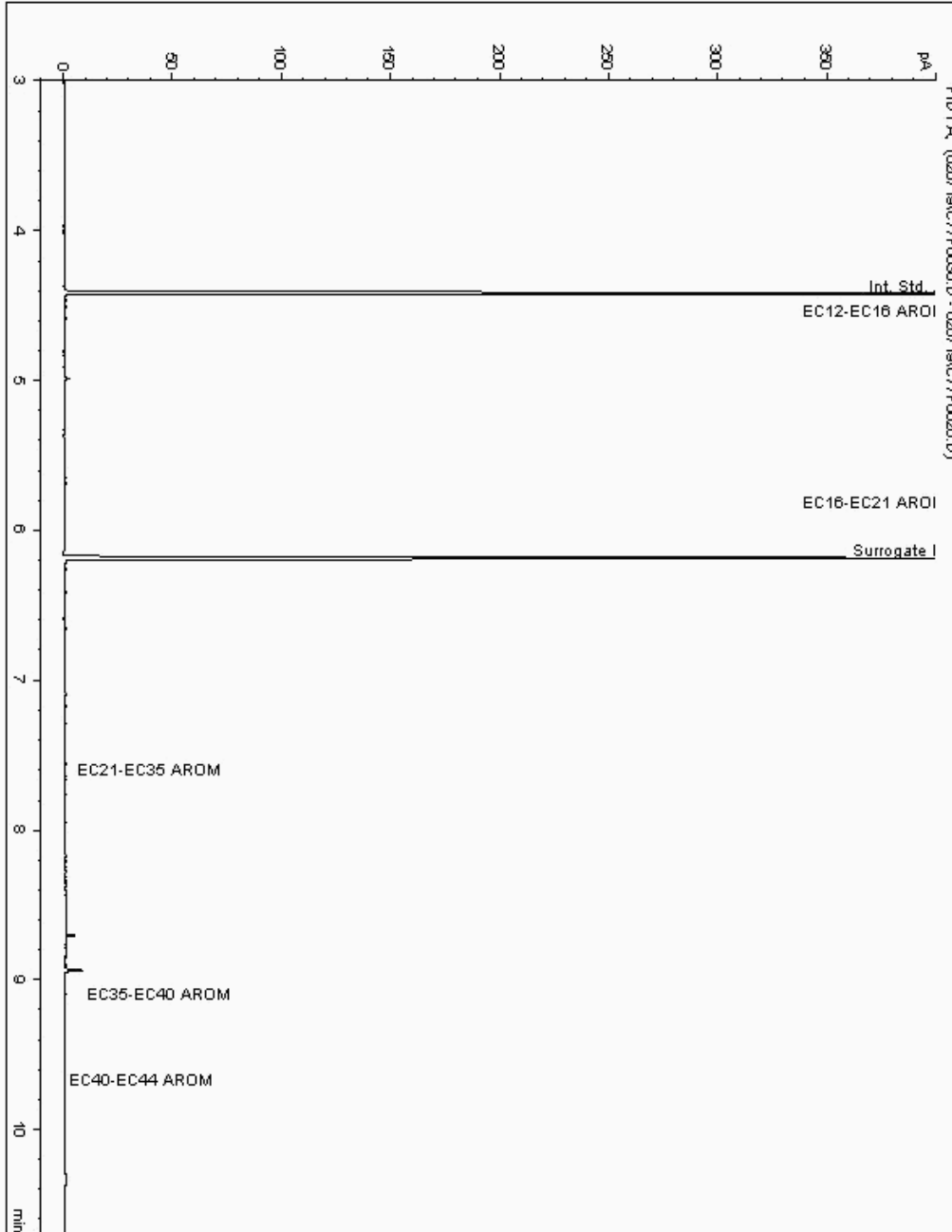
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267720
Sample ID : BH243

Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092919-
Date Acquired : 07/02/2019 23:15:25 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

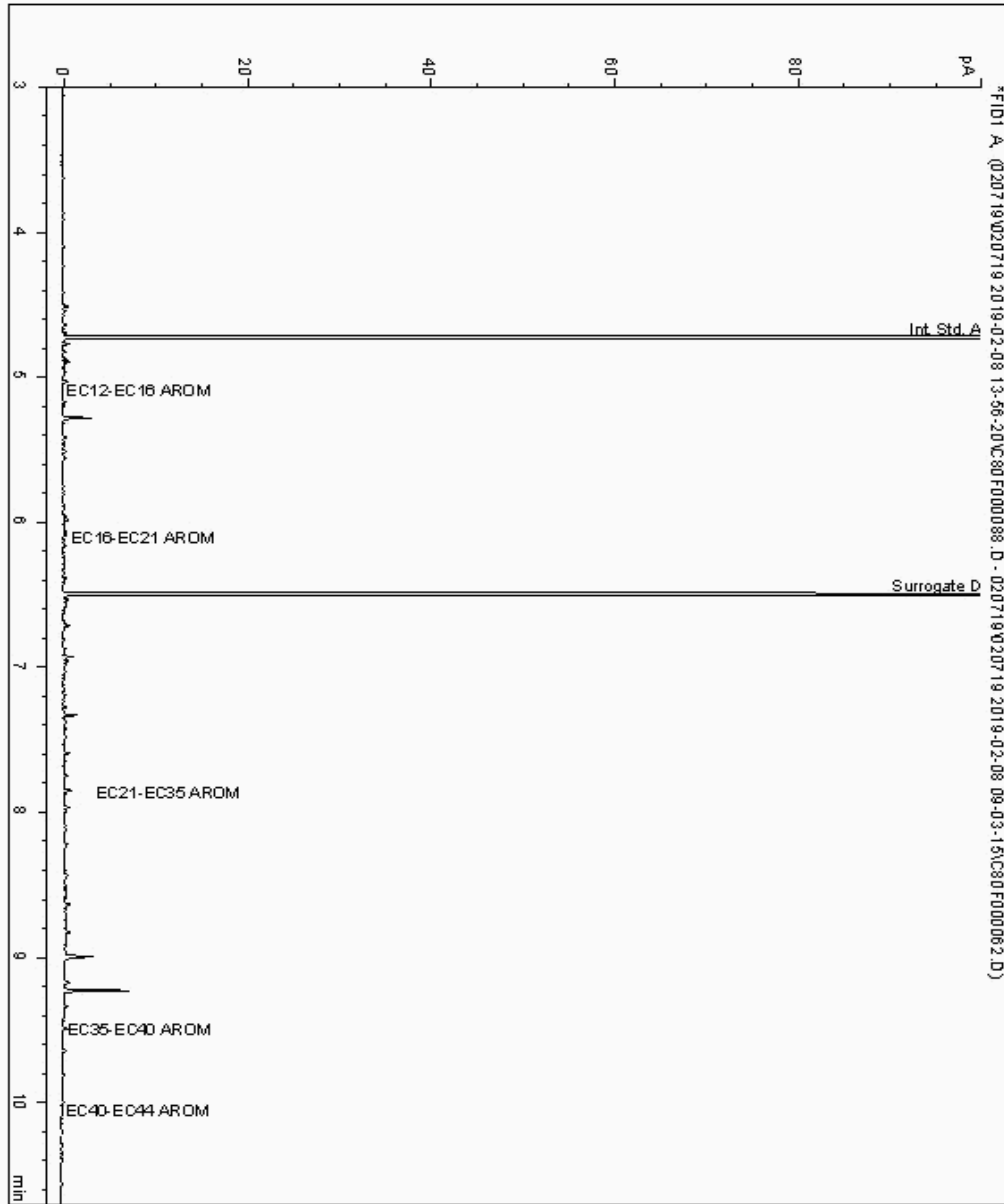
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267815
Sample ID : BH243

Depth : 14.00 - 15.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18092805-
Date Acquired : 08/02/19 14:19:39
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

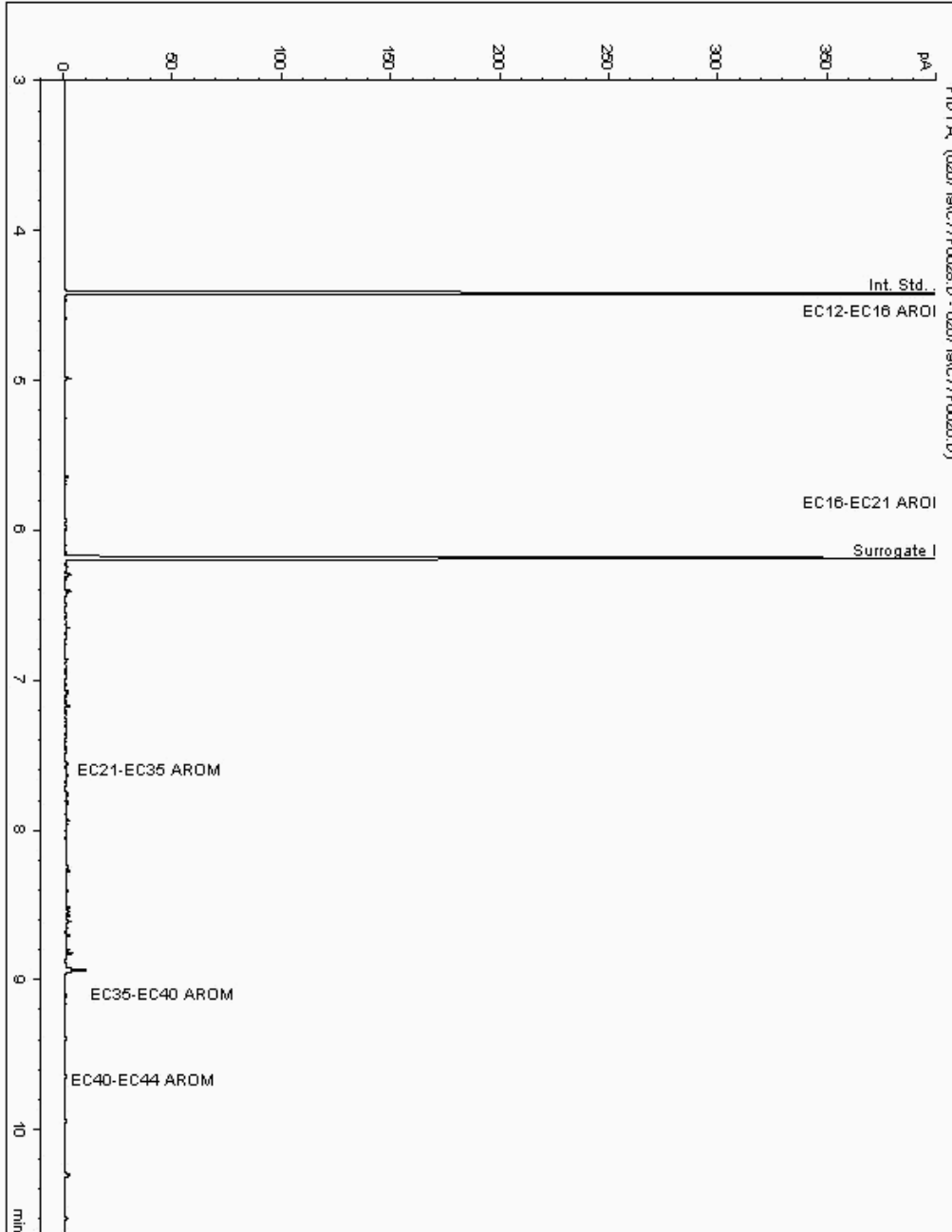
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19267880
Sample ID : BH243

Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18092392-
Date Acquired : 07/02/2019 20:35:45 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

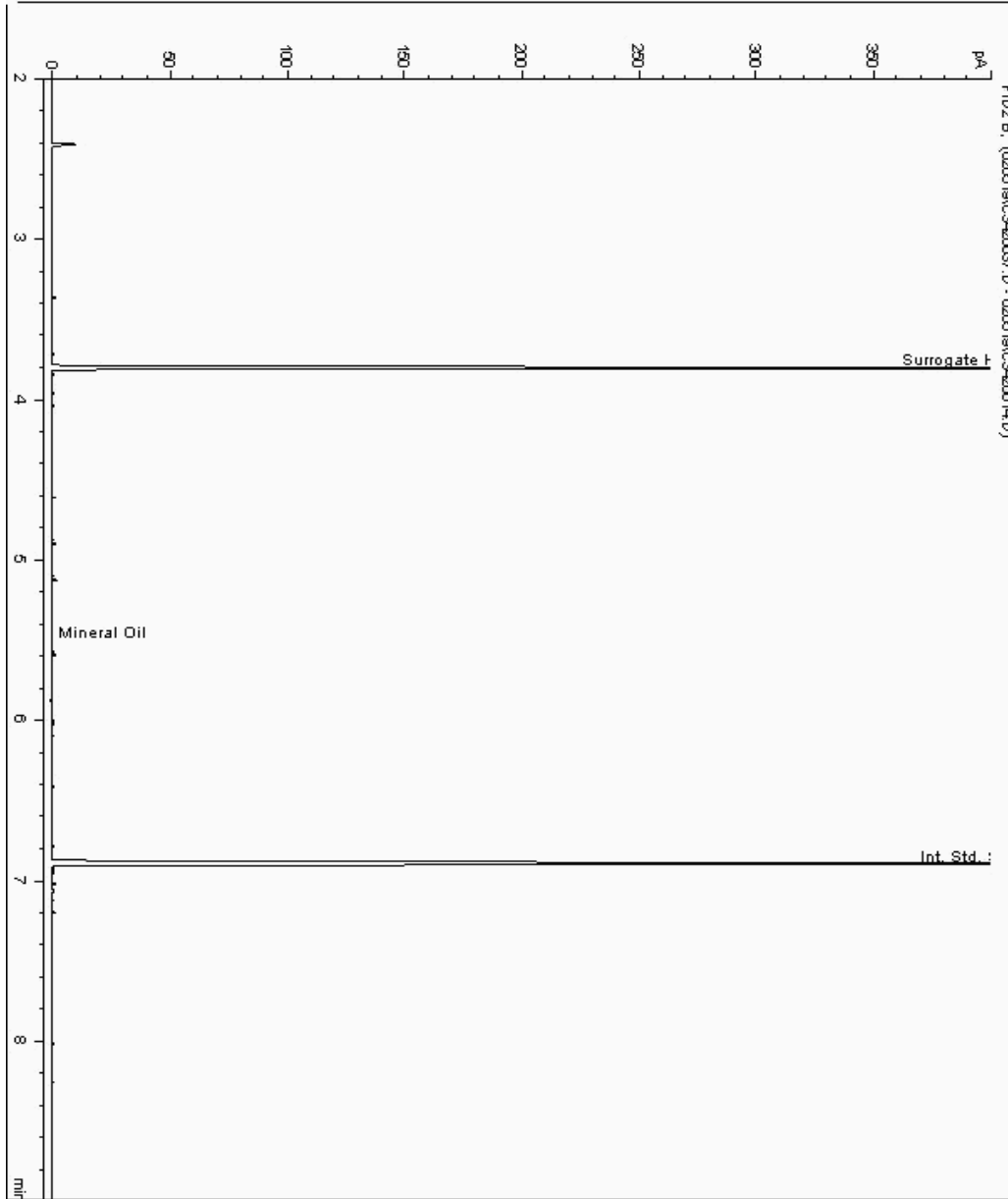
Analysis: Mineral Oil

Sample No : 19267228
Sample ID : BH243

Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092529-
Date Acquired : 05/02/19 20:40:31 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

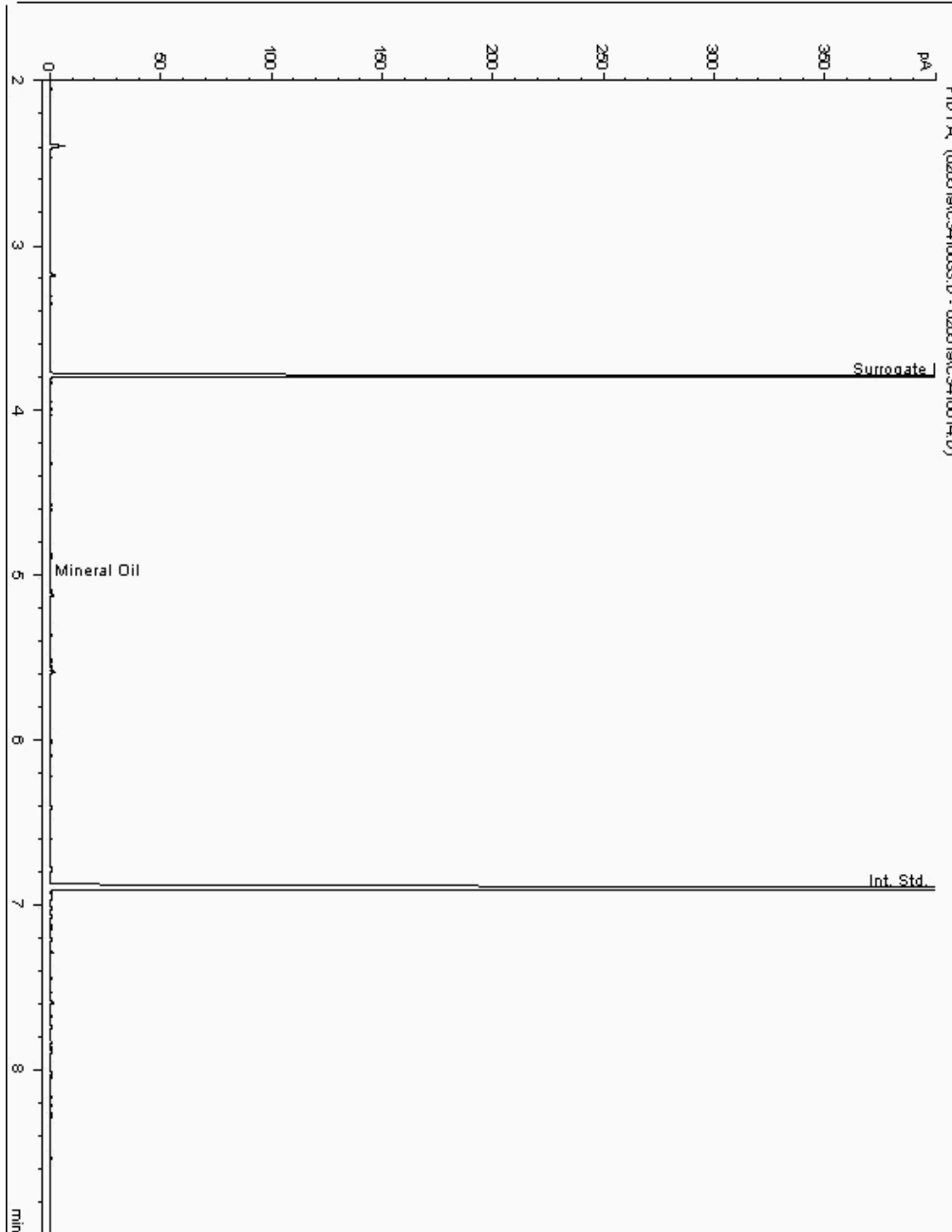
Analysis: Mineral Oil

Sample No : 19267291
Sample ID : BH243

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092332-
Date Acquired : 05/02/2019 16:37:29 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

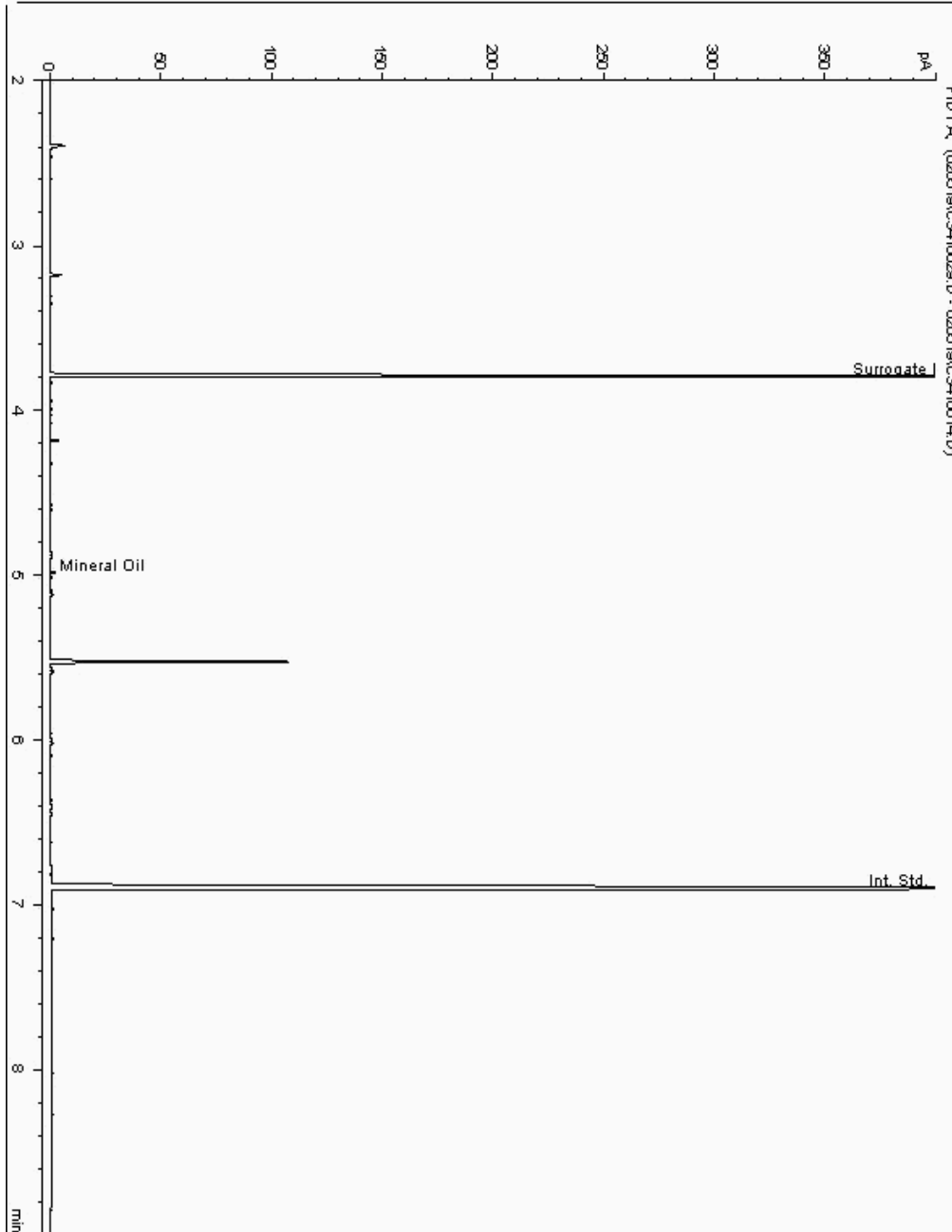
Analysis: Mineral Oil

Sample No : 19267331
Sample ID : BH243

Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092674-
Date Acquired : 05/02/2019 15:14:51 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

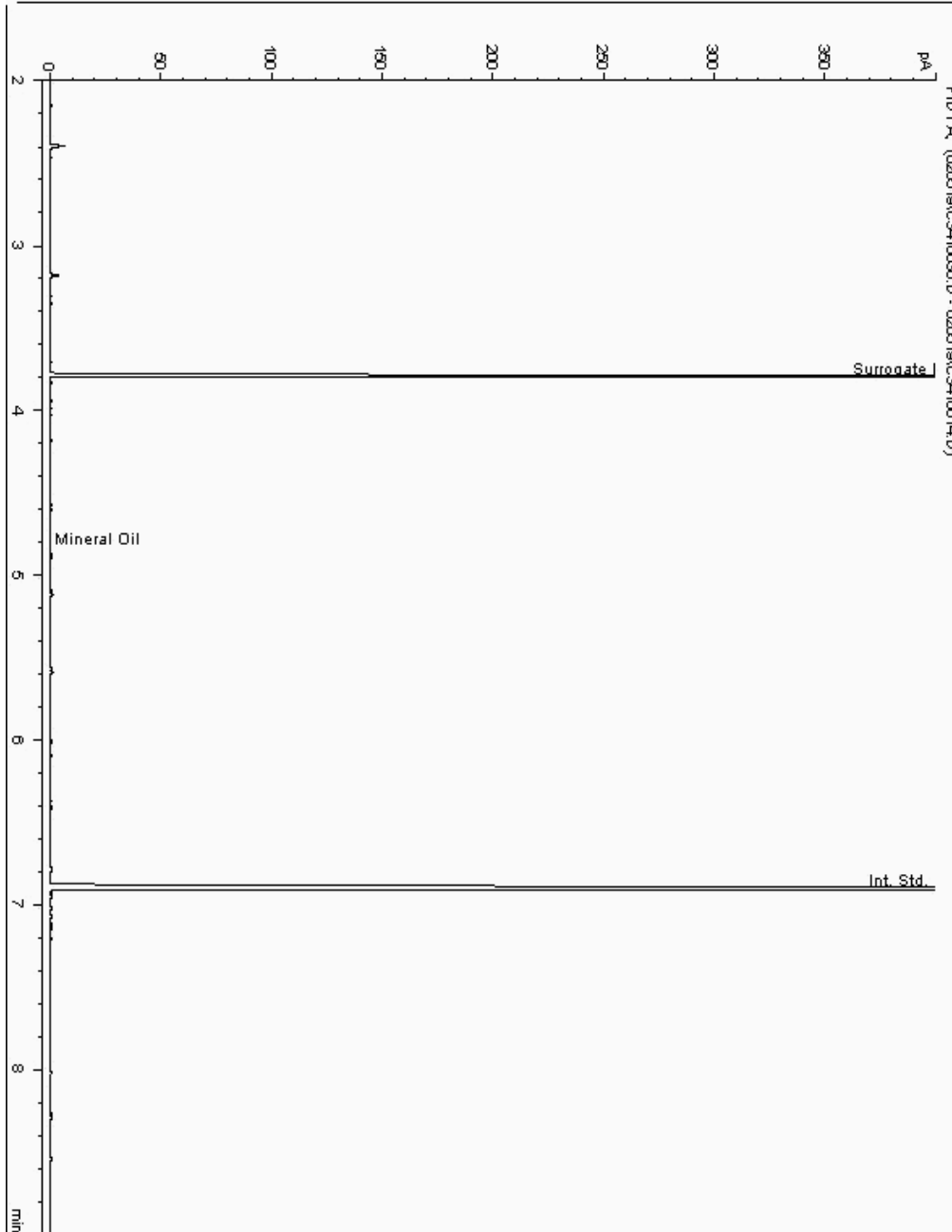
Analysis: Mineral Oil

Sample No : 19267392
Sample ID : BH243

Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092598-
Date Acquired : 05/02/2019 15:35:29 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

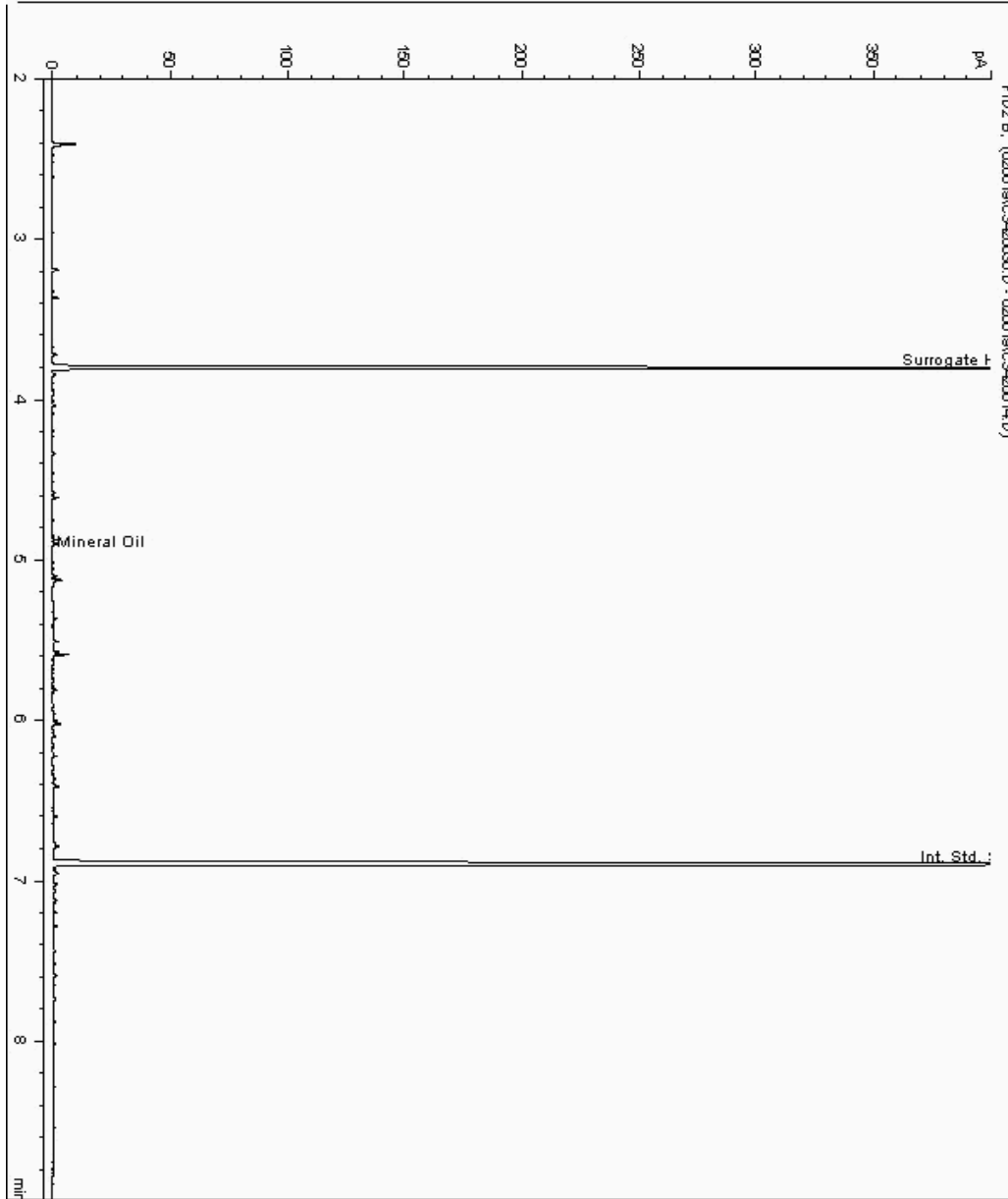
Analysis: Mineral Oil

Sample No : 19267443
Sample ID : BH243

Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092065-
Date Acquired : 06/02/19 17:34:48 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

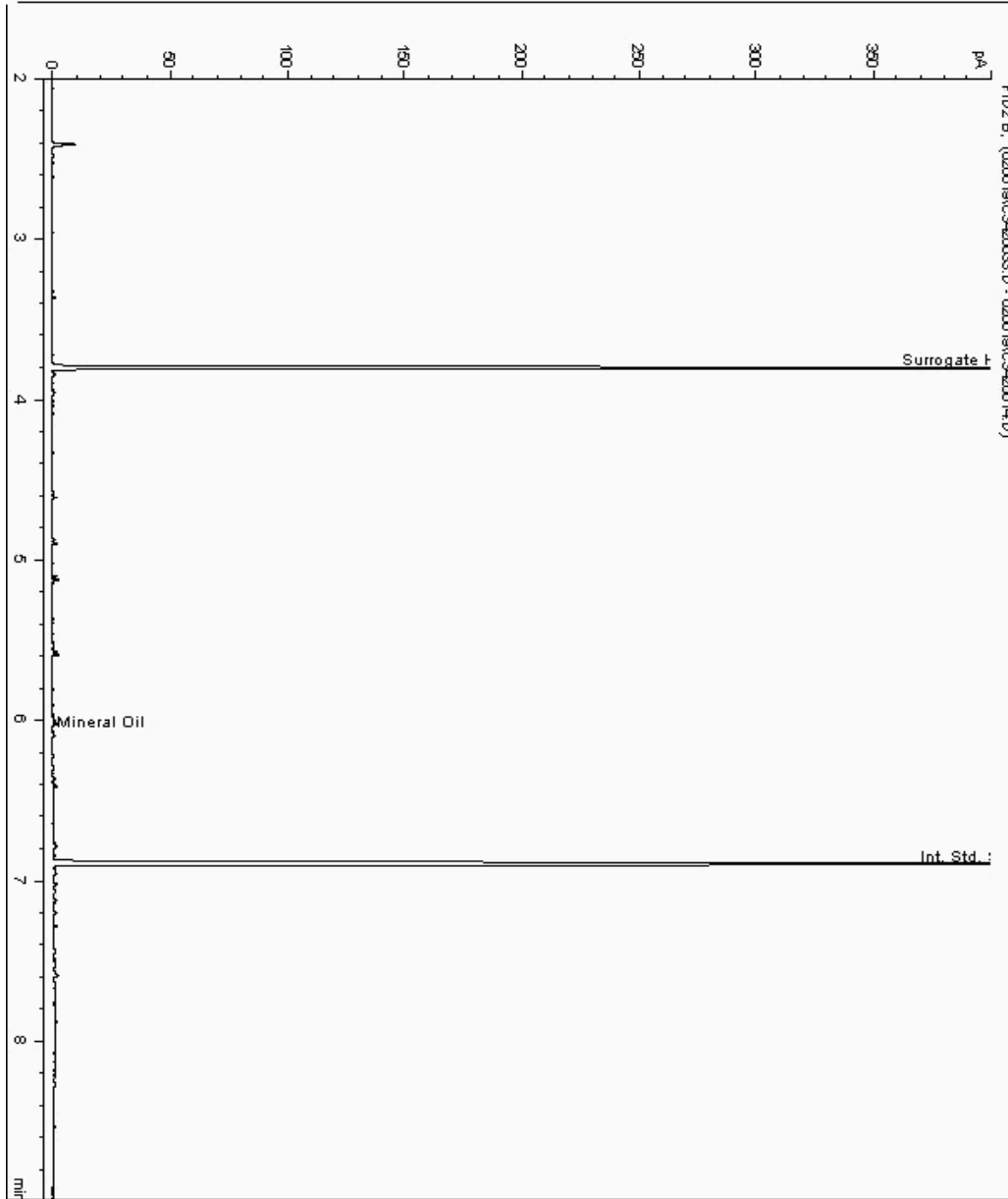
Analysis: Mineral Oil

Sample No : 19267504
Sample ID : BH243

Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092235-
Date Acquired : 06/02/19 16:42:27 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

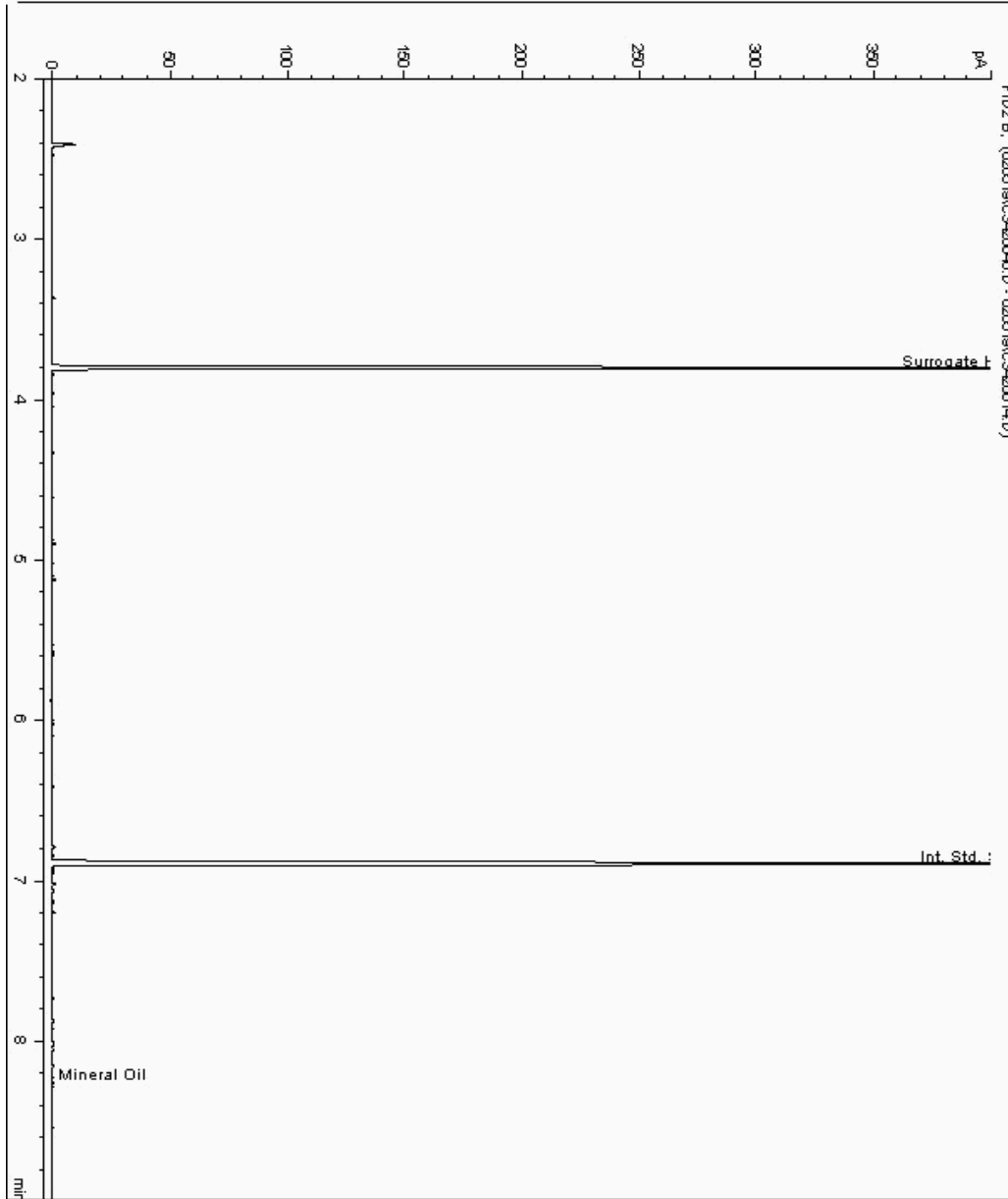
Analysis: Mineral Oil

Sample No : 19267556
Sample ID : BH243

Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092746-
Date Acquired : 05/02/19 21:33:14 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

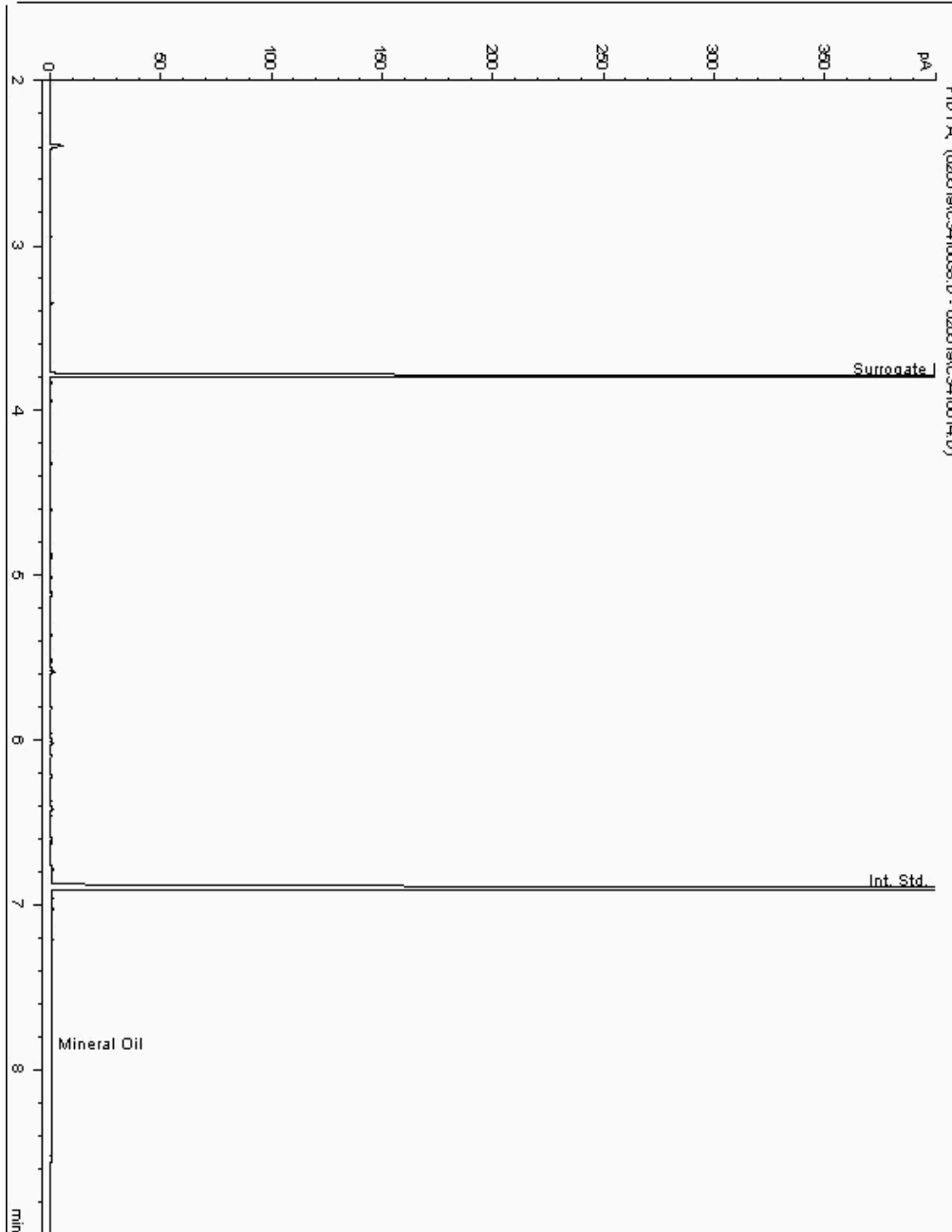
Analysis: Mineral Oil

Sample No : 19267606
Sample ID : BH243

Depth : 0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092162-
Date Acquired : 05/02/2019 18:03:57 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

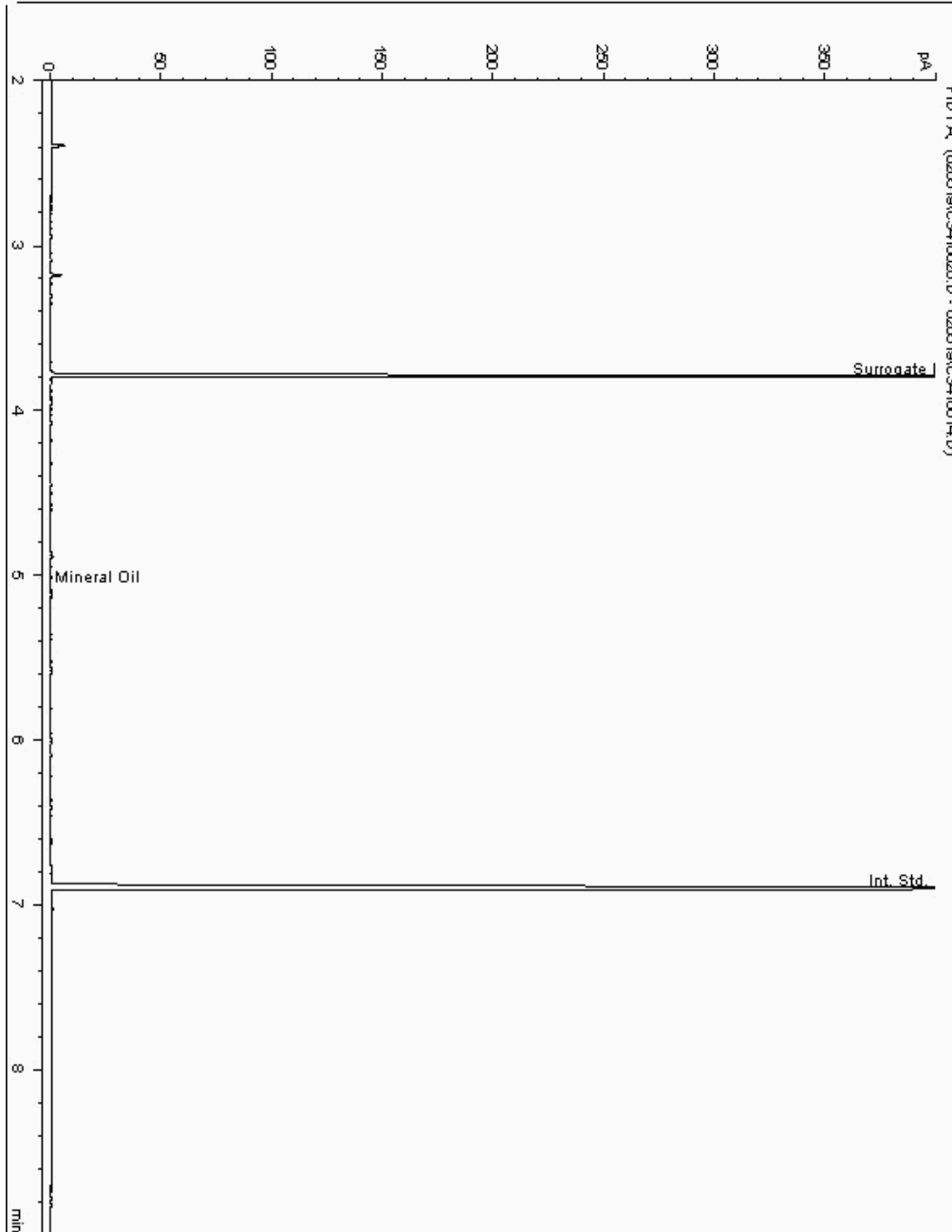
Analysis: Mineral Oil

Sample No : 19267647
Sample ID : BH243

Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092444-
Date Acquired : 05/02/2019 14:21:03 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 494343
Superseded Report: 492554

Chromatogram

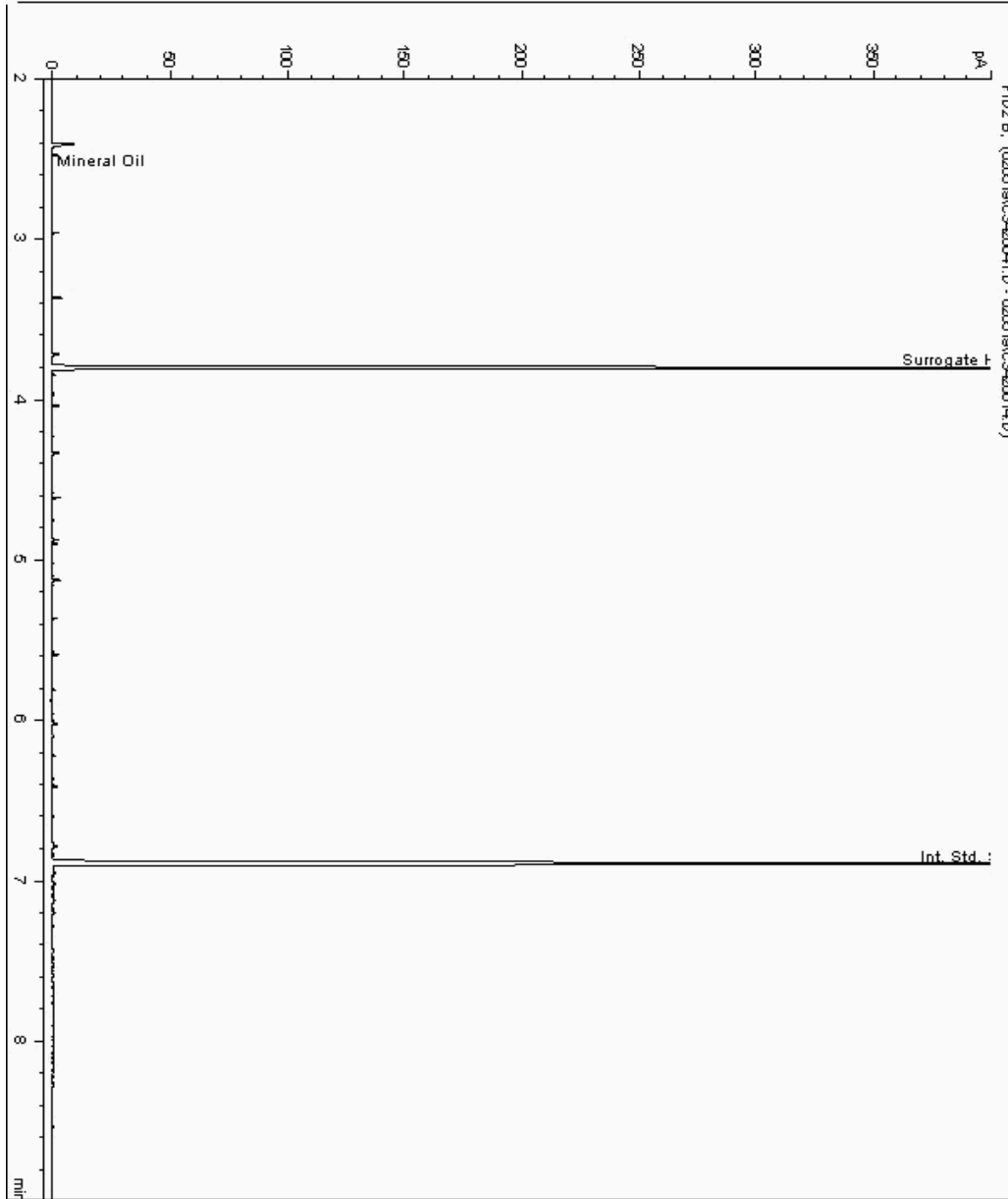
Analysis: Mineral Oil

Sample No : 19267725
Sample ID : BH243

Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092920-
Date Acquired : 05/02/19 21:53:14 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190126-152	Client Reference:	602387	Report Number:	494343
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	492554

Chromatogram

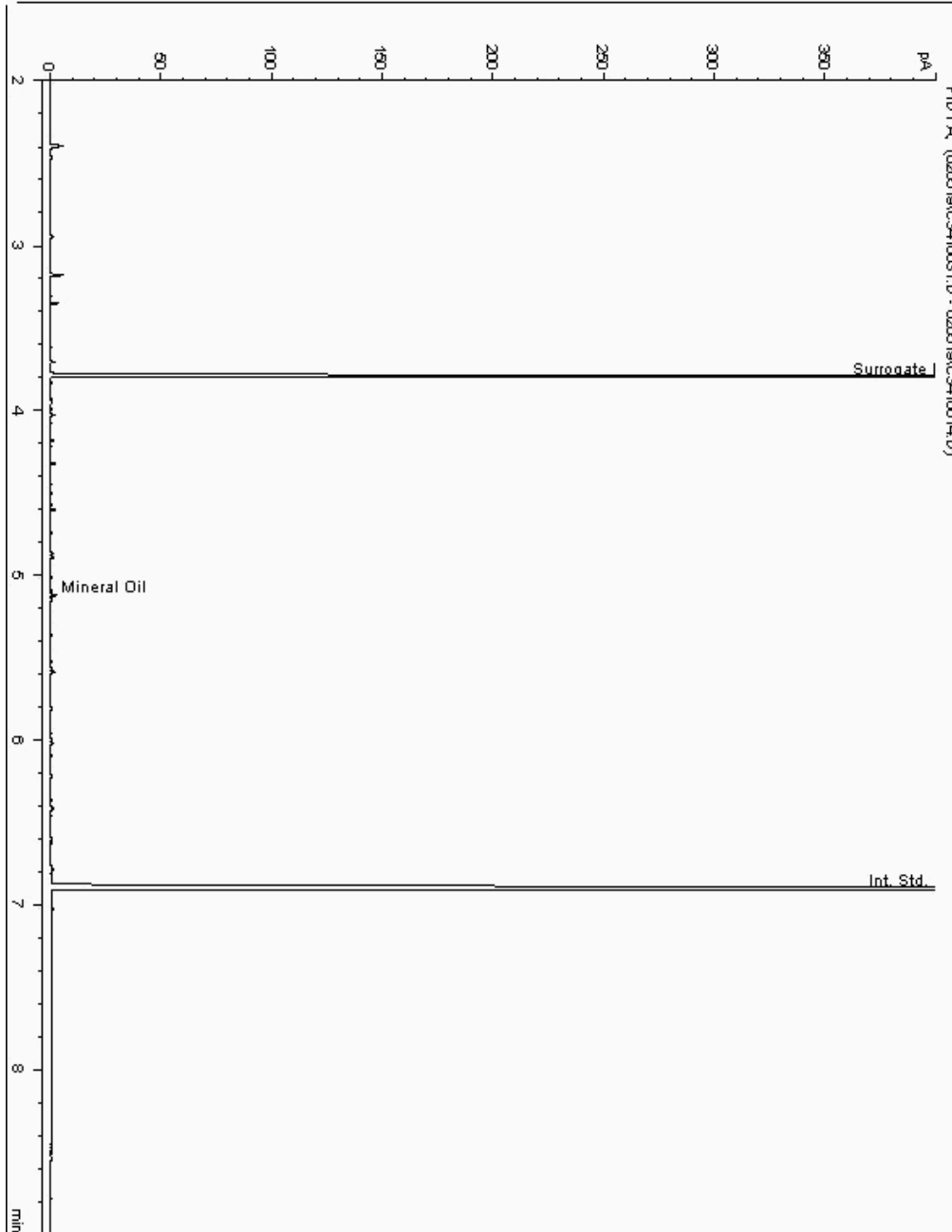
Analysis: Mineral Oil

Sample No : 19267853
Sample ID : BH243

Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092806-
Date Acquired : 05/02/2019 15:56:21 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152 Client Reference: 602387 Report Number: 494343
Location: City Block 9 Order Number: P2021550 Superseded Report: 492554

Chromatogram

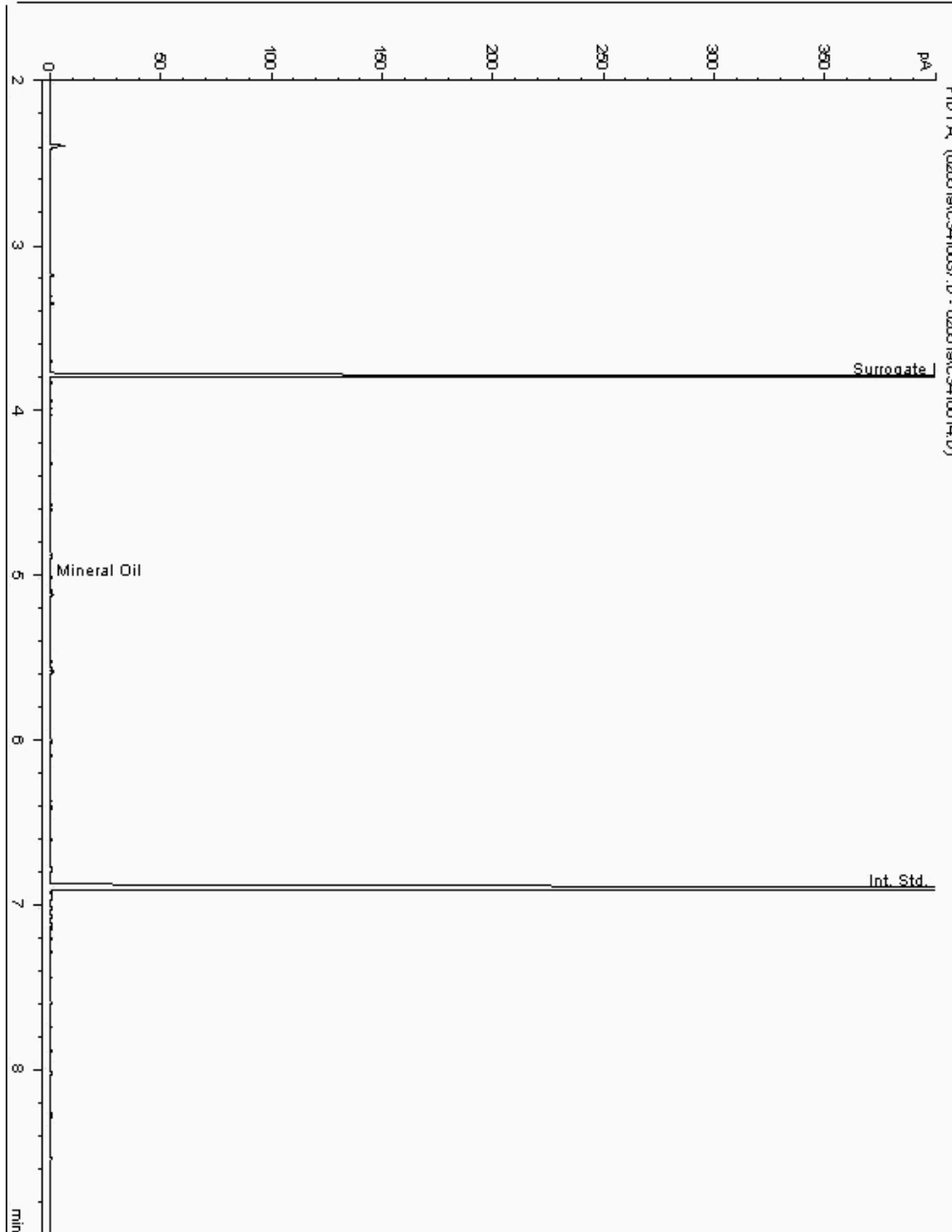
Analysis: Mineral Oil

Sample No : 19267997
Sample ID : BH243

Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18092393-
Date Acquired : 05/02/2019 17:43:21 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

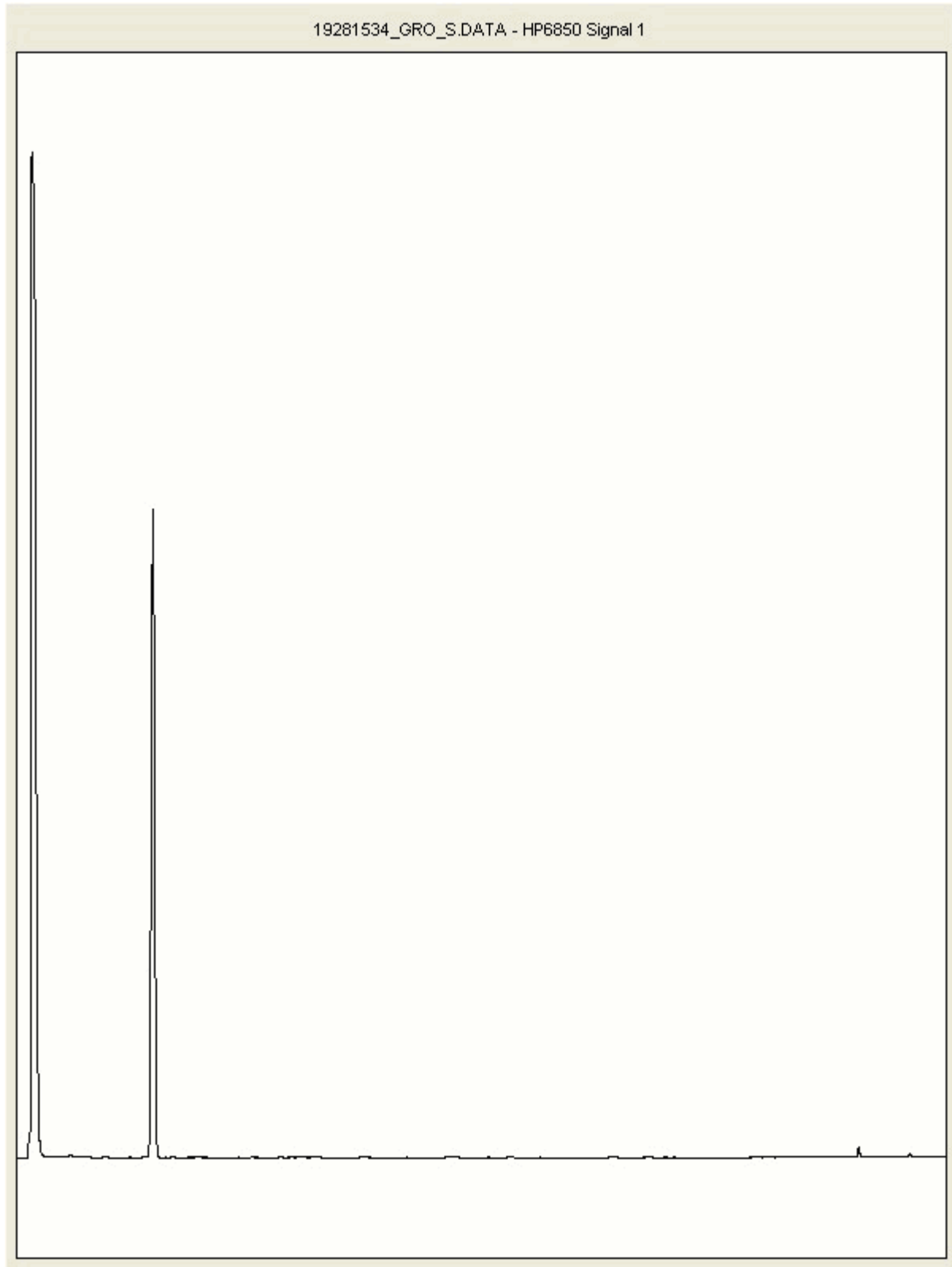
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19281534
Sample ID : BH243

Depth : 11.00 - 12.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

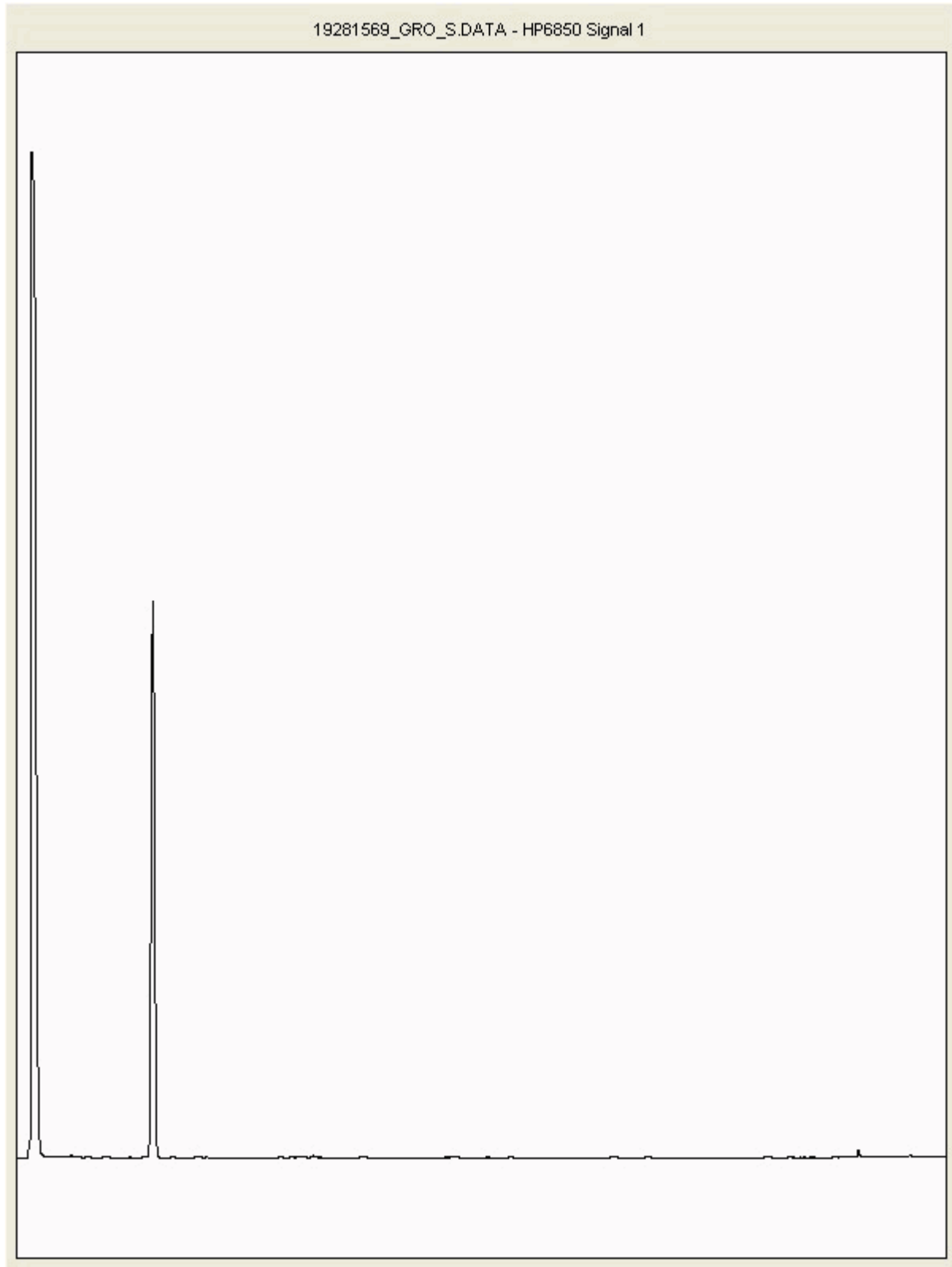
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19281569
Sample ID : BH243

Depth : 8.00 - 9.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

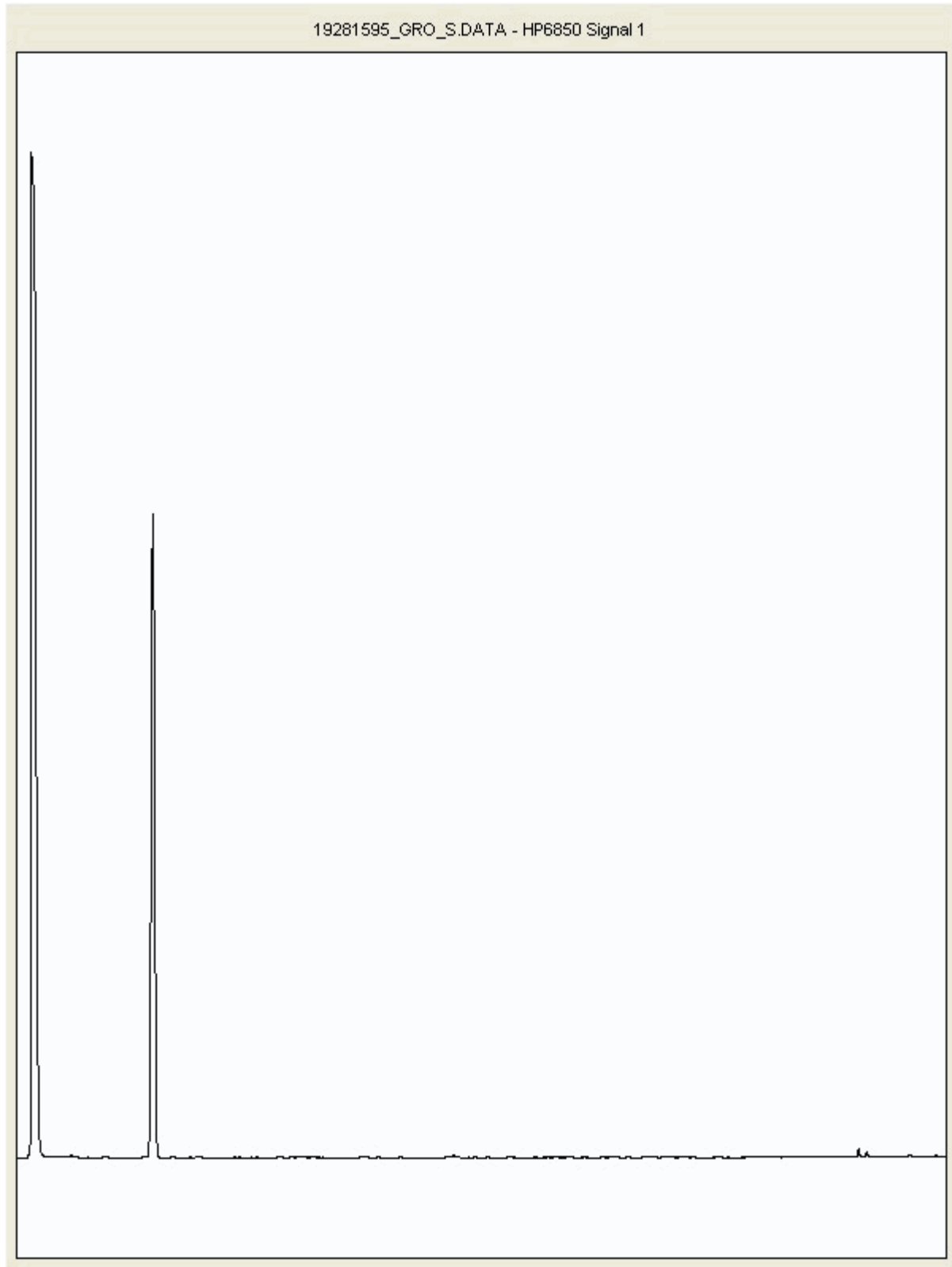
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19281595
Sample ID : BH243

Depth : 0.50 - 1.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

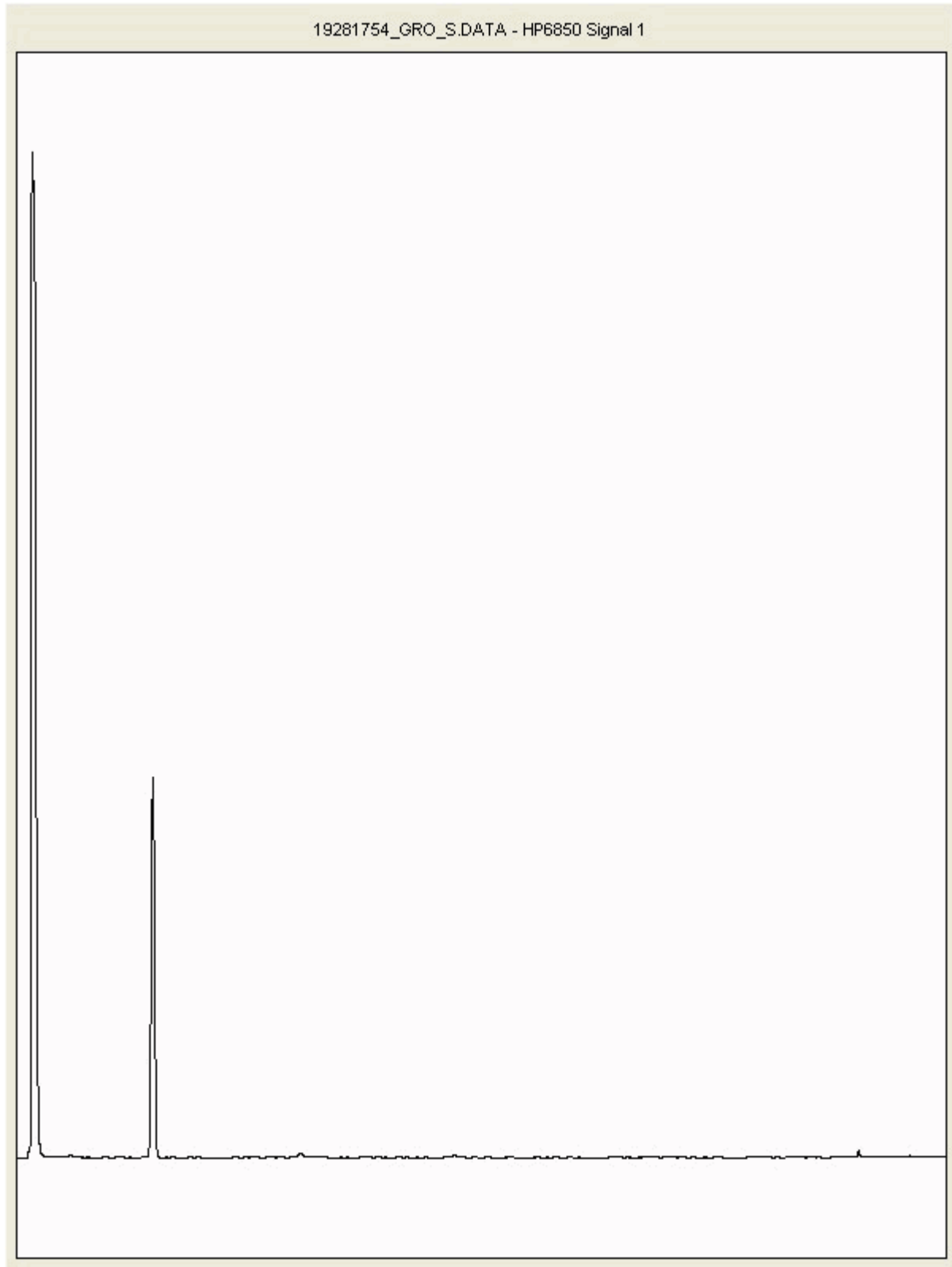
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19281754
Sample ID : BH243

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

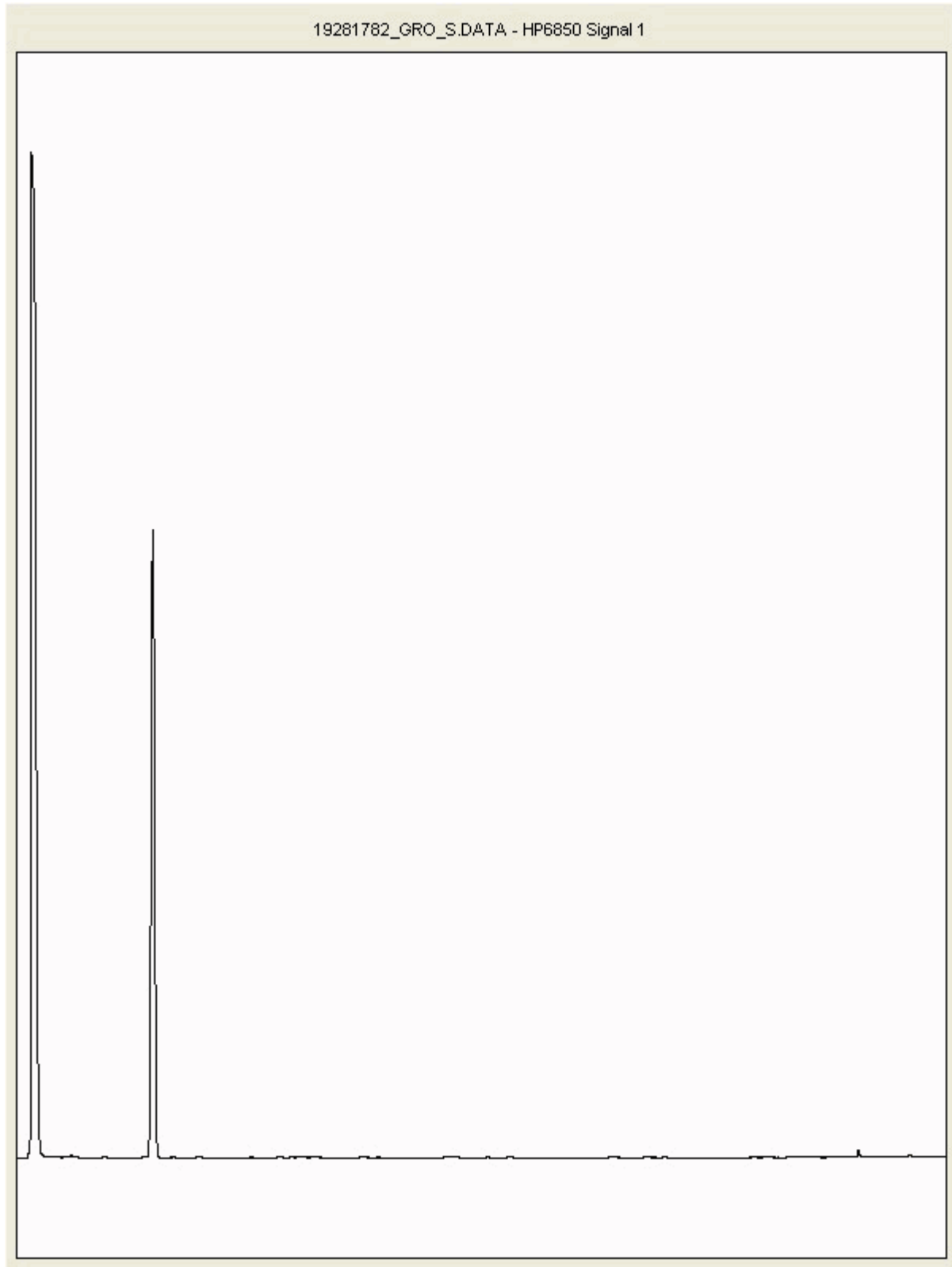
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19281782
Sample ID : BH243

Depth : 4.00 - 5.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

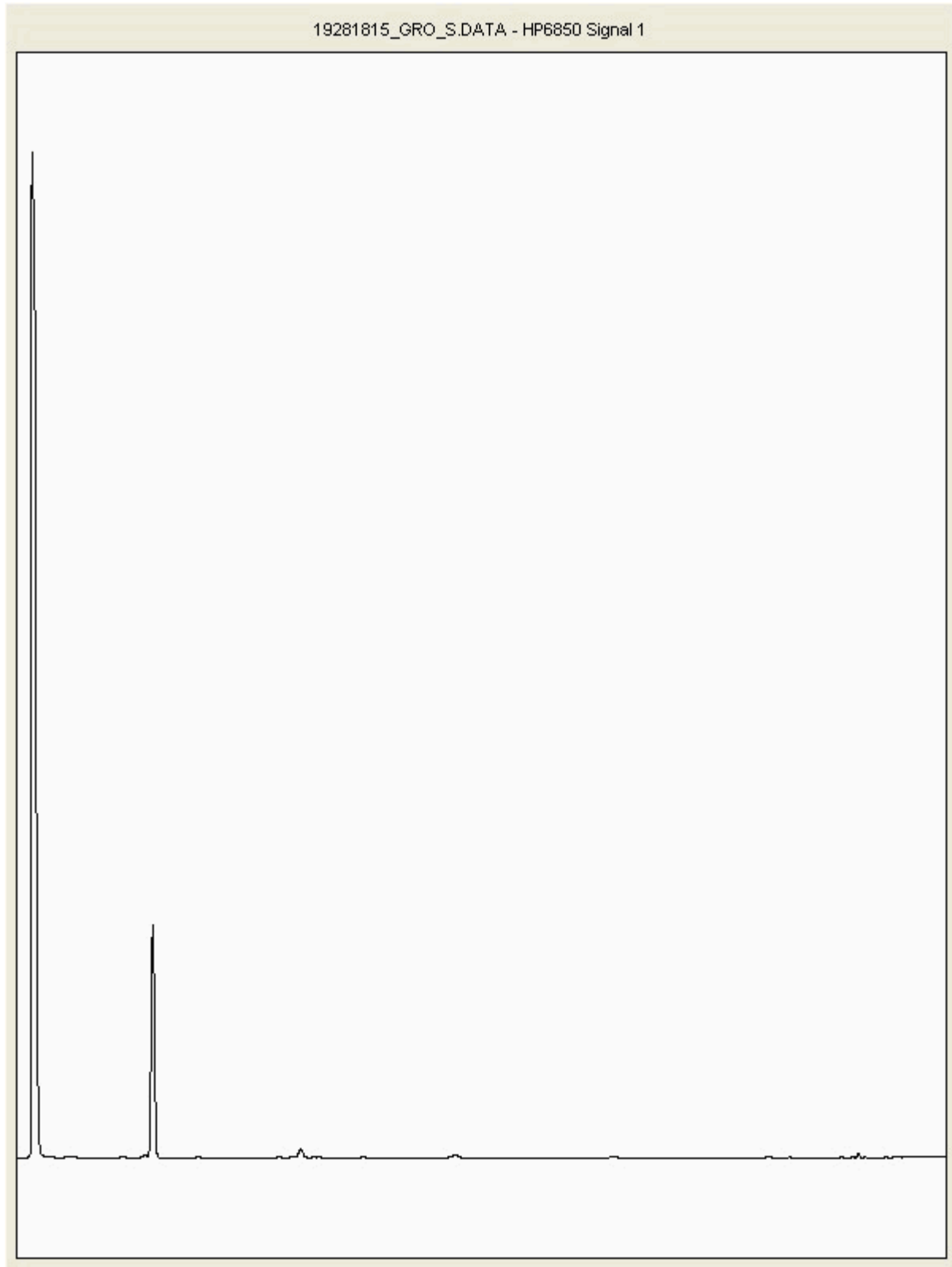
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19281815
Sample ID : BH243

Depth : 5.00 - 6.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

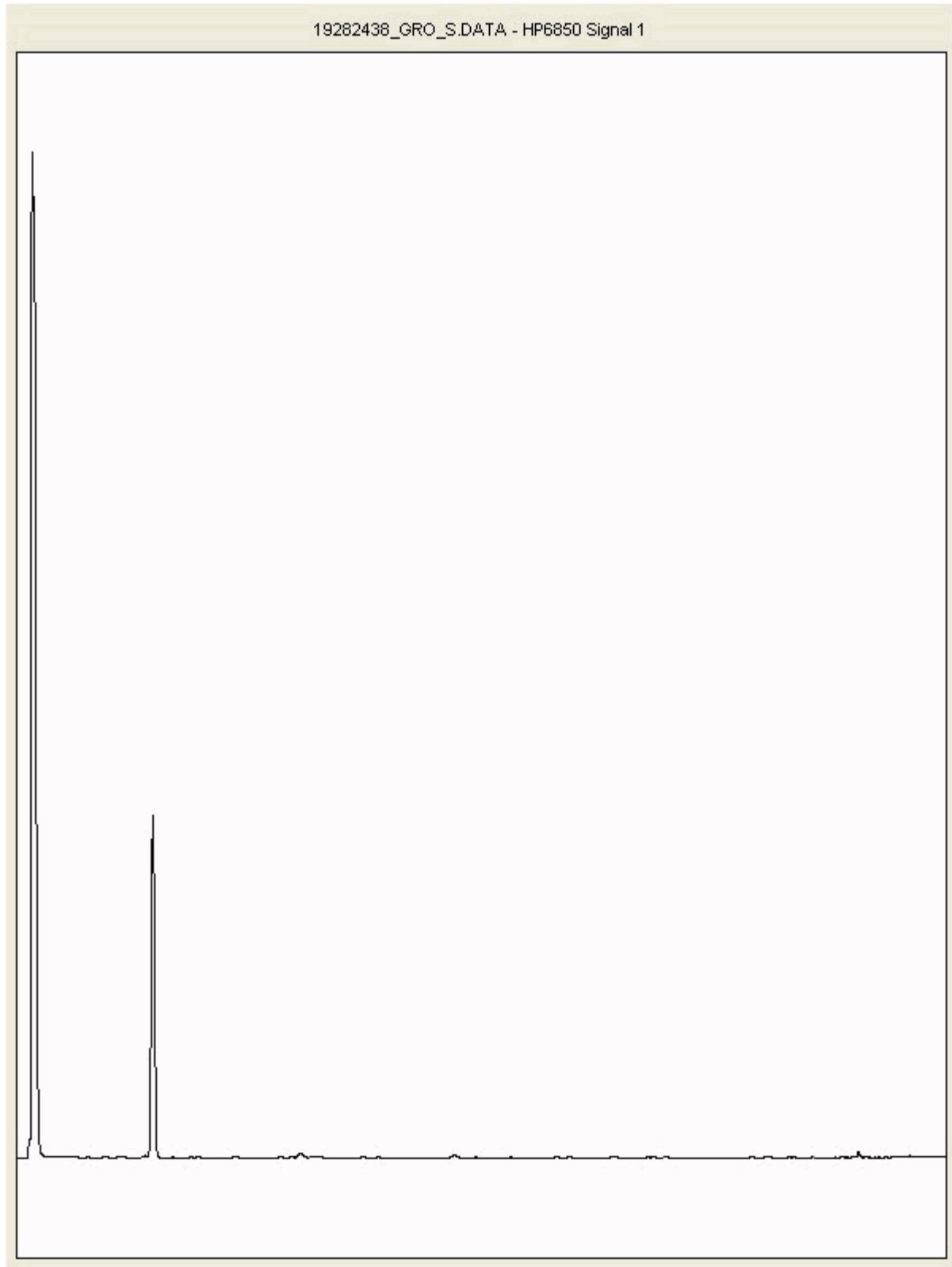
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19282438
Sample ID : BH243

Depth : 1.00 - 2.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

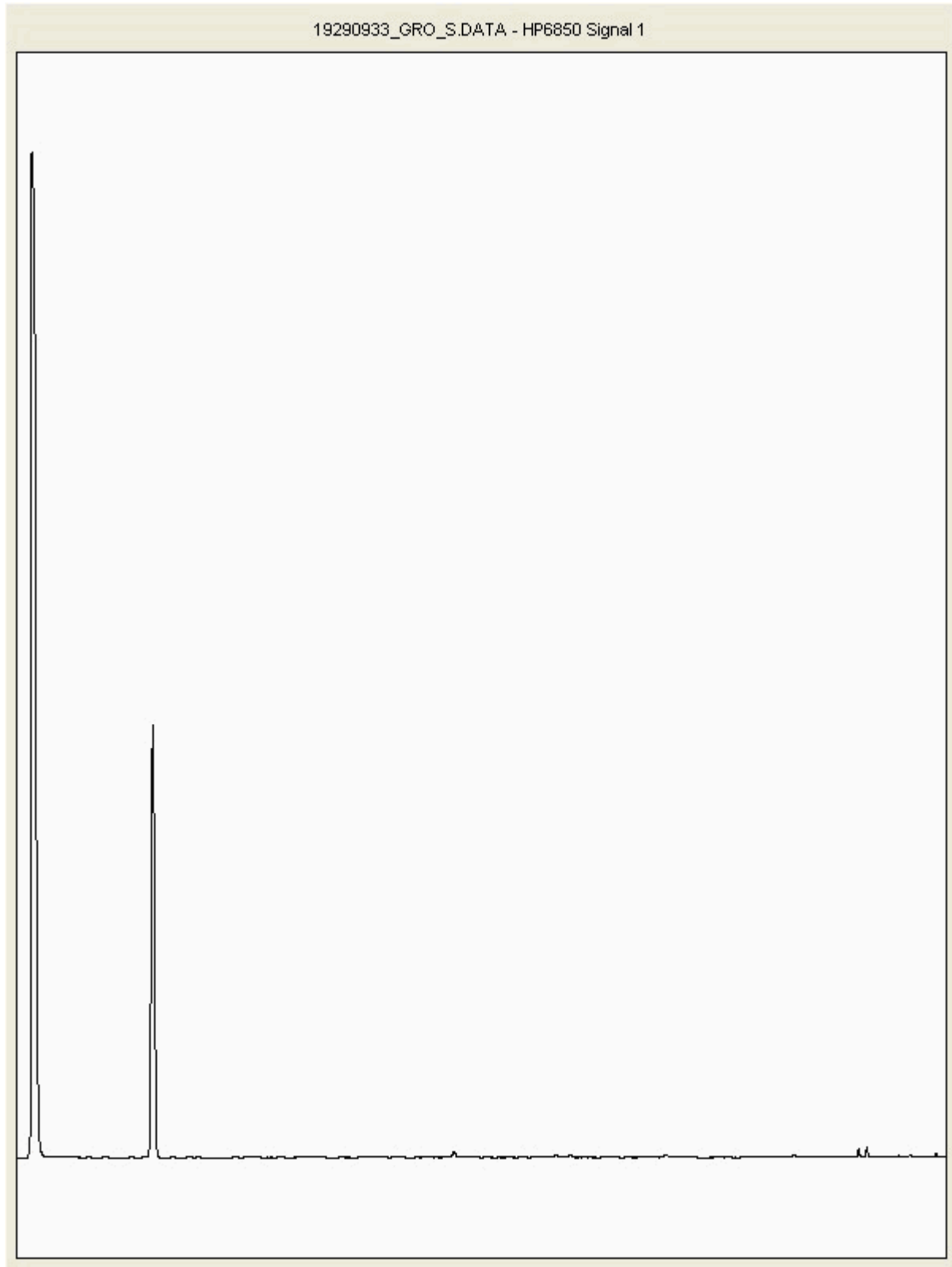
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19290933
Sample ID : BH243

Depth : 0.00 - 0.50





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

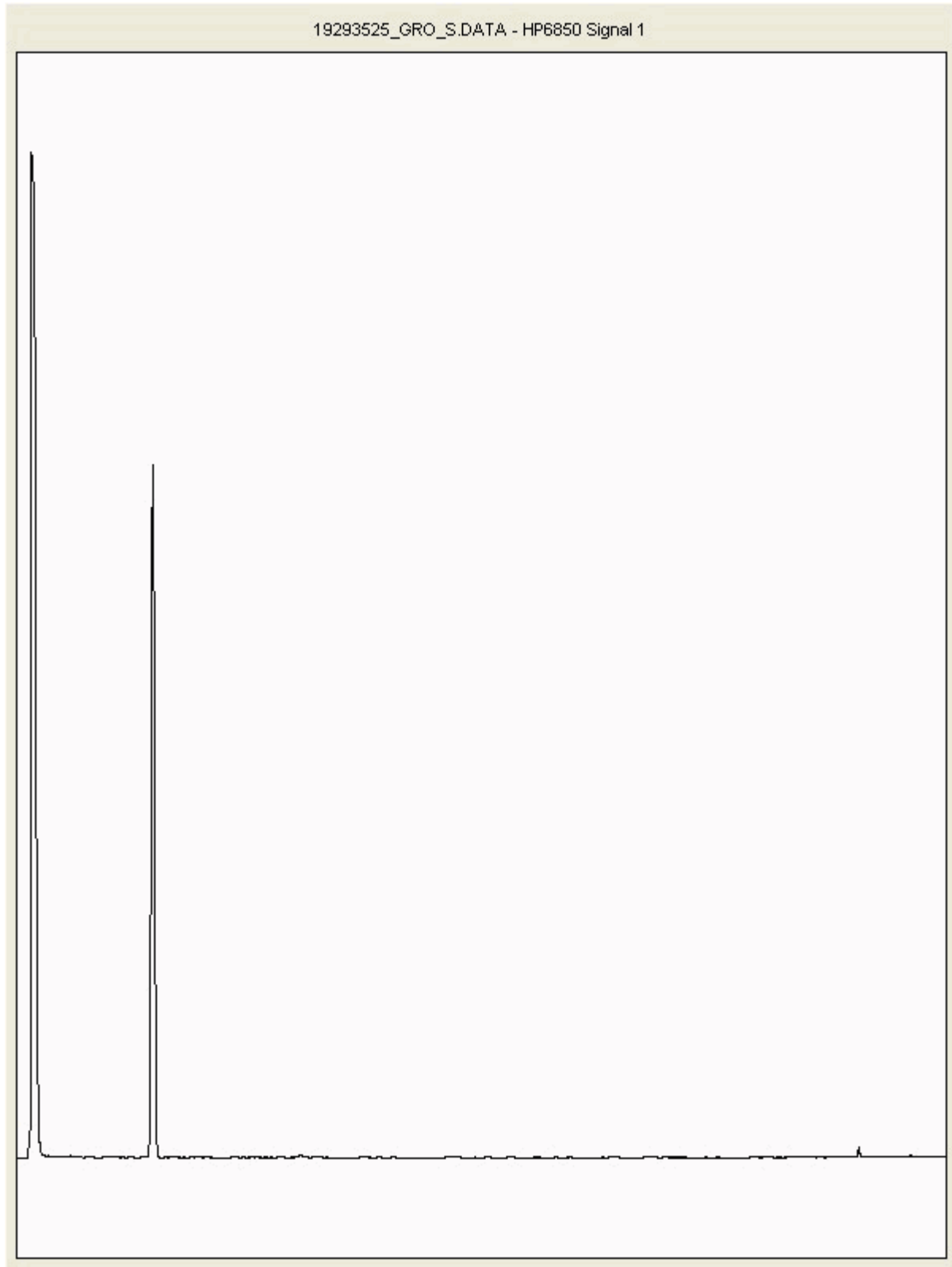
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19293525
Sample ID : BH243

Depth : 6.00 - 7.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

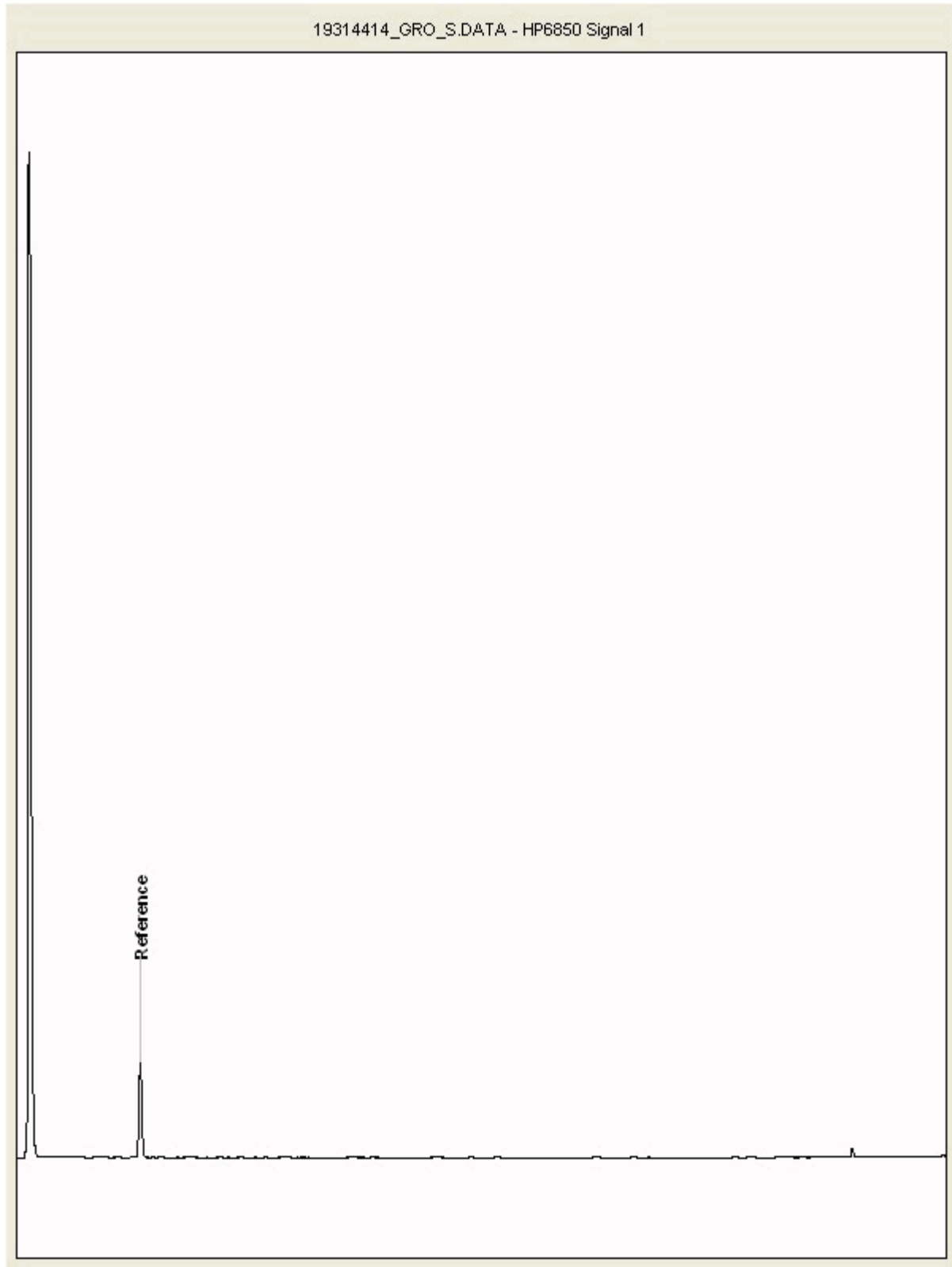
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19314414
Sample ID : BH243

Depth : 14.00 - 15.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

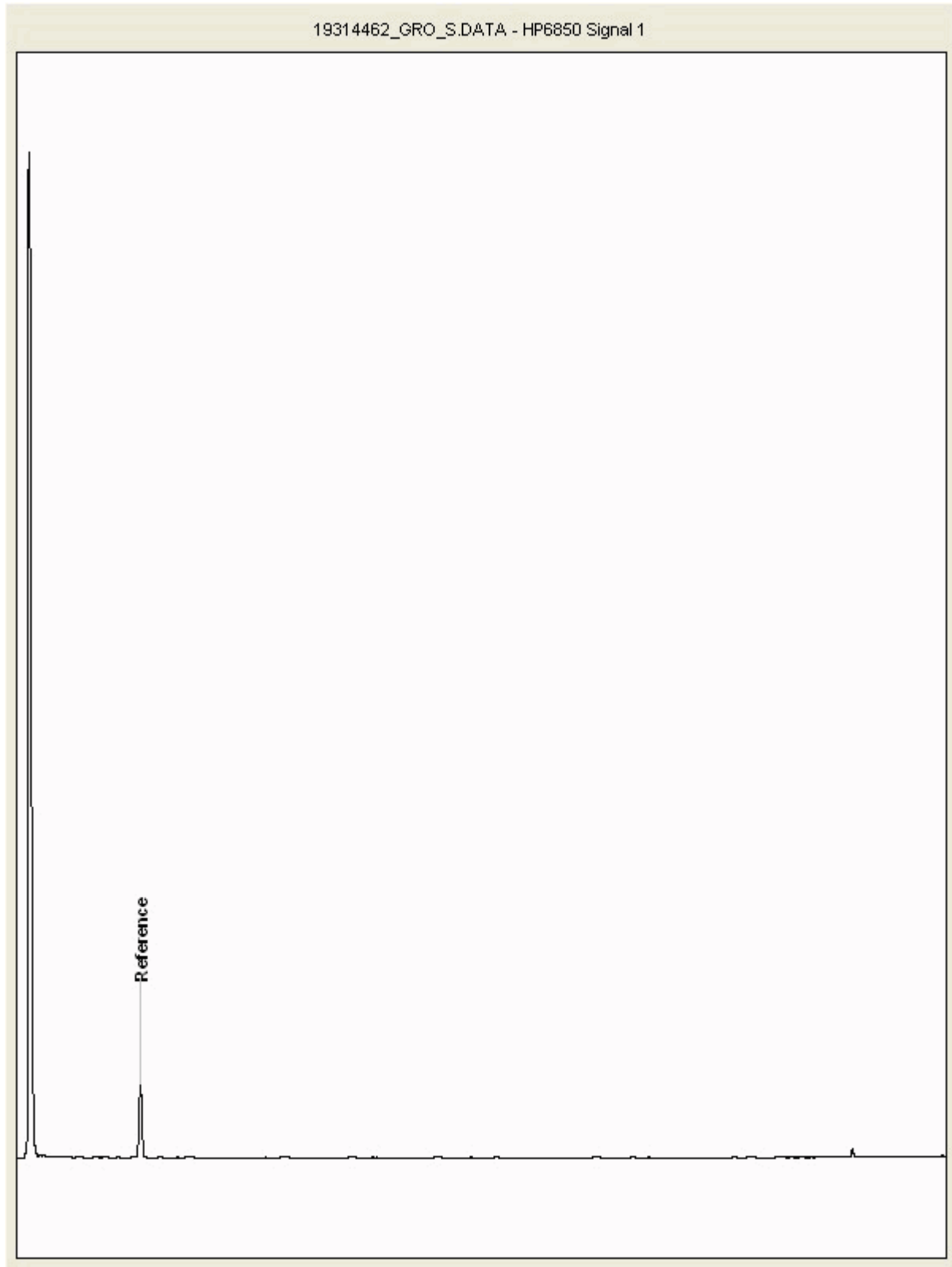
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19314462
Sample ID : BH243

Depth : 15.00 - 16.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190126-152
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

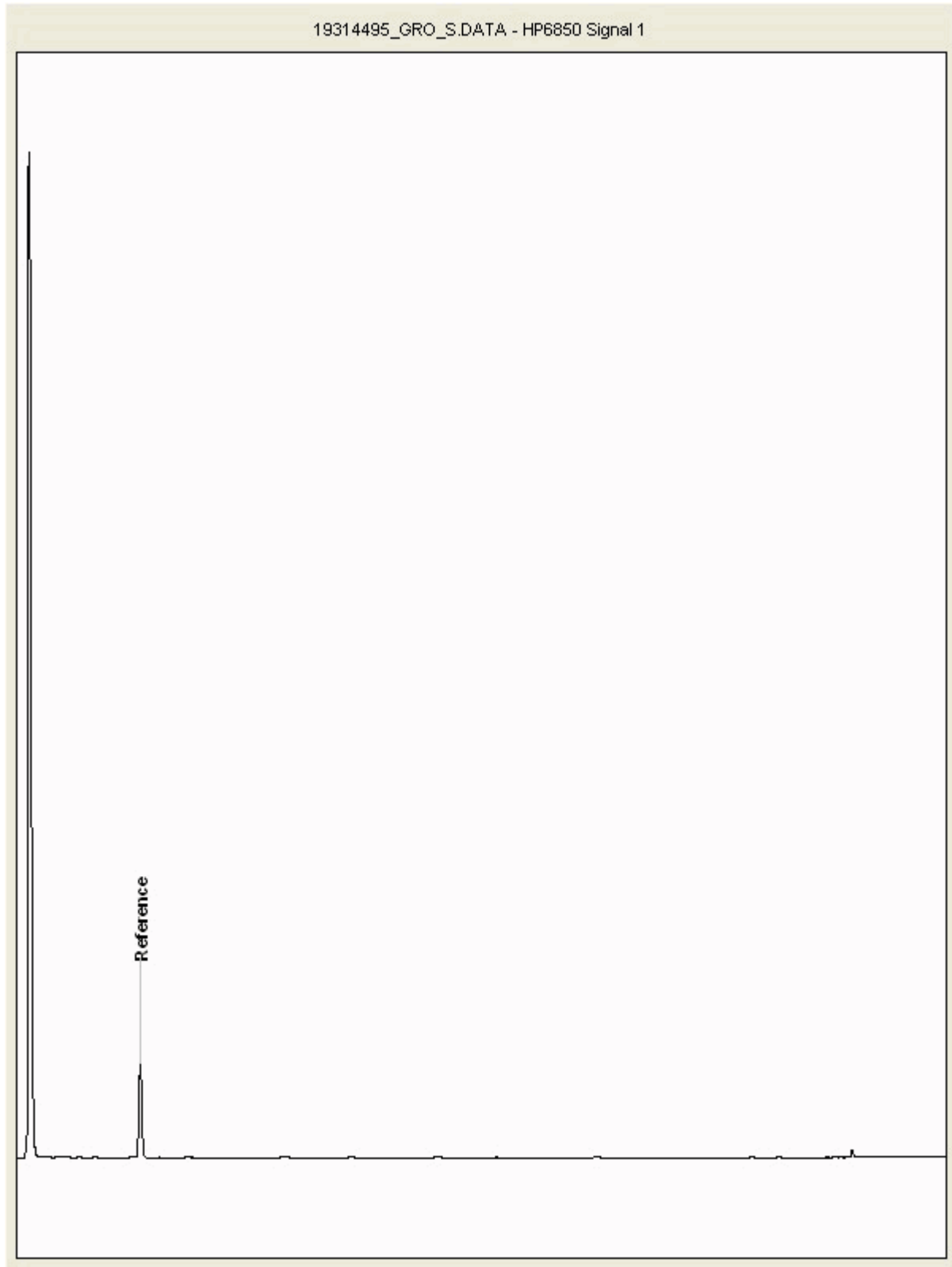
Report Number: 494343
Superseded Report: 492554

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19314495
Sample ID : BH243

Depth : 13.00 - 14.00





CERTIFICATE OF ANALYSIS

SDG:	190126-152	Client Reference:	602387	Report Number:	494343
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	492554

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

General

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestost Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	57
Your Reference:	602387	Samples Scheduled:	57

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19190837	BH230		0.00 - 0.50	16/01/2019
19190838	BH230		0.50 - 1.00	16/01/2019
19190839	BH230		1.00 - 2.00	16/01/2019
19190848	BH230		10.00 - 11.00	16/01/2019
19190850	BH230		12.00 - 13.00	16/01/2019
19190852	BH230		14.00 - 15.00	16/01/2019
19146735	BH230		16.00 - 17.00	16/01/2019
19190840	BH230		2.00 - 3.00	16/01/2019
19190841	BH230		3.00 - 4.00	16/01/2019
19190842	BH230		4.00 - 5.00	16/01/2019
19190844	BH230		6.00 - 7.00	16/01/2019
19190847	BH230		9.00 - 10.00	16/01/2019
19190855	BH231		0.00 - 0.50	17/01/2019
19190857	BH231		1.00 - 2.00	17/01/2019
19190866	BH231		10.00 - 11.00	17/01/2019
19190869	BH231		12.00 - 13.00	17/01/2019
19190872	BH231		14.00 - 15.00	17/01/2019
19190858	BH231		2.00 - 3.00	17/01/2019
19190859	BH231		3.00 - 4.00	17/01/2019
19190860	BH231		4.00 - 5.00	17/01/2019
19190861	BH231		5.00 - 6.00	17/01/2019
19190862	BH231		6.00 - 7.00	17/01/2019
19190865	BH231		9.00 - 10.00	17/01/2019
19190875	BH236		0.00 - 0.50	21/01/2019
19190876	BH236		0.50 - 1.00	21/01/2019
19190877	BH236		1.00 - 2.00	21/01/2019
19190889	BH236		13.00 - 14.00	21/01/2019
19190891	BH236		15.00 - 16.00	21/01/2019
19190878	BH236		2.00 - 3.00	21/01/2019
19190879	BH236		3.00 - 4.00	21/01/2019
19190880	BH236		4.00 - 5.00	21/01/2019
19190881	BH236		5.00 - 6.00	21/01/2019
19190884	BH236		8.00 - 9.00	21/01/2019
19190885	BH236		9.00 - 10.00	21/01/2019
19190893	BH237		0.00 - 0.50	21/01/2019
19190894	BH237		0.50 - 1.00	21/01/2019
19190896	BH237		1.00 - 2.00	21/01/2019
19190914	BH237		12.00 - 13.00	21/01/2019
19190916	BH237		14.00 - 15.00	21/01/2019
19190898	BH237		2.00 - 3.00	21/01/2019
19190899	BH237		3.00 - 4.00	21/01/2019
19190901	BH237		4.00 - 5.00	21/01/2019
19190903	BH237		5.00 - 6.00	21/01/2019
19190905	BH237		6.00 - 7.00	21/01/2019
19190908	BH237		8.00 - 9.00	21/01/2019
19190910	BH237		9.00 - 10.00	21/01/2019
19190919	BH238		0.00 - 0.50	18/01/2019
19190921	BH238		1.00 - 2.00	18/01/2019
19190931	BH238		11.00 - 12.00	18/01/2019
19190932	BH238		12.00 - 13.00	18/01/2019
19190934	BH238		14.00 - 15.00	18/01/2019
19190922	BH238		2.00 - 3.00	18/01/2019
19190923	BH238		3.00 - 4.00	18/01/2019
19190924	BH238		4.00 - 5.00	18/01/2019
19190925	BH238		5.00 - 6.00	18/01/2019
19190926	BH238		6.00 - 7.00	18/01/2019
19190929	BH238		9.00 - 10.00	18/01/2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
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ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of $(5\pm3)^{\circ}\text{C}$.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of $(5\pm3)^{\circ}\text{C}$ for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
	19190865	BH231		9.00 - 10.00	250g Amber Jar
	19190862	BH231		6.00 - 7.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19190861	BH231		5.00 - 6.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19190860	BH231		4.00 - 5.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19190859	BH231		3.00 - 4.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19190858	BH231		2.00 - 3.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19190857	BH231		1.00 - 2.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19190855	BH231		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19190852	BH230		14.00 - 15.00	1kg TUB 250g Amber Jar
	19190850	BH230		12.00 - 13.00	1kg TUB 250g Amber Jar
	19190848	BH230		10.00 - 11.00	1kg TUB 250g Amber Jar
	19190847	BH230		9.00 - 10.00	1kg TUB 250g Amber Jar
	19190844	BH230		6.00 - 7.00	1kg TUB 250g Amber Jar
	19190842	BH230		4.00 - 5.00	1kg TUB 250g Amber Jar
	19190841	BH230		3.00 - 4.00	1kg TUB 250g Amber Jar
	19190840	BH230		2.00 - 3.00	1kg TUB 250g Amber Jar
	19190839	BH230		1.00 - 2.00	1kg TUB 250g Amber Jar
	19190838	BH230		0.50 - 1.00	1kg TUB 250g Amber Jar
	19190837	BH230		0.00 - 0.50	1kg TUB 60g VOC (ALE215)
	19146735	BH230		16.00 - 17.00	250g Amber Jar
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 57			
Anions by Kone (w)	All	NDPs: 0 Tests: 57			
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 57			
CEN Readings	All	NDPs: 0 Tests: 57			
Coronene	All	NDPs: 0 Tests: 57			
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 57			
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 57			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 57			
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 57			
Fluoride	All	NDPs: 0 Tests: 57			
GRO by GC-FID (S)	All	NDPs: 0 Tests: 57			
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 57			
Loss on Ignition in soils	All	NDPs: 0 Tests: 57			
Mercury Dissolved	All	NDPs: 0 Tests: 57			
Metals in solid samples by OES	All	NDPs: 0 Tests: 57			
Mineral Oil	All	NDPs: 0 Tests: 57			
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 57			
PAH by GCMS	All	NDPs: 0 Tests: 57			



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19190919	19190916	19190914	19190910	19190908	19190905	19190903	19190899	19190898	19190896	19190894	19190893	19190891
						BH238	BH237	BH237	BH237	BH237	BH237	BH237	BH237	BH237	BH237	BH237	BH237	BH237
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 57					X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19190921	19190922	19190923	19190924	19190925	19190926	19190929	19190931	19190932	19190934
						BH238	BH238	BH238	BH238	BH238	BH238	BH238	BH238	BH238	BH238
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 57		1.00 - 2.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 57		2.00 - 3.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 57		3.00 - 4.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 57		4.00 - 5.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 57		5.00 - 6.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 57		6.00 - 7.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 57		9.00 - 10.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 57		11.00 - 12.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 57		12.00 - 13.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 57		14.00 - 15.00	60g VOC (ALE215) 250g Glass Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 57					X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 57				X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19190921	19190922	19190923	19190924	19190925	19190926	19190929	19190931	19190932	19190934
Customer Sample Reference	BH238	BH238	BH238	BH238	BH238	BH238	BH238	BH238	BH238	BH238
AGS Reference										
Depth (m)	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	11.00 - 12.00	12.00 - 13.00	14.00 - 15.00
Container	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Glass Jar 60g VOC (ALE215)	60g VOC (ALE215) 250g Glass Jar 1kg TUB

PCBs by GCMS	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH230	BH230	BH230	BH230	BH230	BH230
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190837	19190838	19190839	19190848	19190850	19190852
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	8.1	16	15	9	17	9.9
Loss on ignition	<0.7 %	TM018	3.4	3.88	2.56	1.04	1.74	2.13
Mineral Oil Surrogate % recovery**	%	TM061	74.6	71	68.4	70	75.6	73.7
Mineral oil >C10-C40	<1 mg/kg	TM061	26.5	61.1	42.6	<1	3.06	11.4
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ #	<0.01 @ M	<0.01 @ M
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ #	<0.01 @ M	<0.01 @ M
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ #	<0.015 @ M	<0.015 @ M
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ #	<0.01 @ M	<0.01 @ M
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ #	<0.015 @ M	<0.015 @ M
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06 @ M	<0.06 @ M	<0.06 @ M	<0.06 @ #	<0.06 @ M	<0.06 @ M
Organic Carbon, Total	<0.2 %	TM132	0.71 M	1.11 M	0.699 M	0.571 #	1.24 M	0.63 M
pH	1 pH Units	TM133	8.19 M	7.72 M	8.33 M	9.36 #	9.06 M	8.35 M
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #
PCB congener 28	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 #	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 #	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 #	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 #	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 #	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 #	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 #	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	5.21 M	8.73 M	7.16 M	3.88 #	9.78 M	9.14 M
Cadmium	<0.02 mg/kg	TM181	0.676 M	0.56 M	0.245 M	0.99 #	1.33 M	1.49 M
Chromium	<0.9 mg/kg	TM181	7.16 M	8.91 M	7.59 M	7.11 #	6.71 M	8.39 M
Copper	<1.4 mg/kg	TM181	19.3 M	23.5 M	13.8 M	8.28 #	13.7 M	19.7 M
Lead	<0.7 mg/kg	TM181	49.1 M	42.2 M	30.5 M	3.83 #	8.5 M	10.1 M
Mercury	<0.14 mg/kg	TM181	<0.14 M	<0.14 M	<0.14 M	<0.14 #	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181	11.9 M	12.6 M	10.3 M	14 #	22.1 M	29.1 M
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	<1 #	1.34 #	2 #
Zinc	<1.9 mg/kg	TM181	177 M	82.5 M	50 M	45.1 #	70.3 M	65.6 M
ANC @ pH 4	<0.03 mol/kg	TM182	0.237	0.155	0.119	0.345	0.148	1.37
ANC @ pH 6	<0.03 mol/kg	TM182	0.0542	0.0497	0.0473	0.124	0.0612	0.267
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	24.8	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	230	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH230	BH230	BH230	BH230	BH230	BH230
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19146735	19190840	19190841	19190842	19190844	19190847
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	5.8	25	25	21	13	8.8
Loss on ignition	<0.7 %	TM018	1.34	4.94	3.96	4.81	1.52	<0.7
Mineral Oil Surrogate % recovery**	%	TM061	69.9	70.7	73.4	77	75.6	73.9
Mineral oil >C10-C40	<1 mg/kg	TM061	16.4	39.3	36.8	15.2	9.64	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ #	<0.01 @ M
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ #	<0.01 @ M
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ #	<0.015 @ M
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ M	<0.01 @ #	<0.01 @ M
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ M	<0.015 @ #	<0.015 @ M
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06 @ M	<0.06 @ M	<0.06 @ M	<0.06 @ M	<0.06 @ #	<0.06 @ M
Organic Carbon, Total	<0.2 %	TM132	0.784 M	2.29 M	1.77 M	0.591 M	3.72 #	0.369 M
pH	1 pH Units	TM133	8.52 M	7.75 M	7.39 M	7.61 M	8.82 #	9.45 M
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #	<0.6 #
PCB congener 28	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 #	<3 M
PCB congener 52	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 #	<3 M
PCB congener 101	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 #	<3 M
PCB congener 118	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 #	<3 M
PCB congener 138	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 #	<3 M
PCB congener 153	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 #	<3 M
PCB congener 180	<3 µg/kg	TM168	<3 M	<3 M	<3 M	<3 M	<3 #	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	8.69 M	10.6 M	11.2 M	11.2 M	4.66 #	5.7 M
Cadmium	<0.02 mg/kg	TM181	1.54 M	0.711 M	0.739 M	0.732 M	0.459 #	0.733 M
Chromium	<0.9 mg/kg	TM181	7.59 M	13.1 M	14.3 M	12.8 M	5.35 #	6.95 M
Copper	<1.4 mg/kg	TM181	20.5 M	26.6 M	28.6 M	32.2 M	7.89 #	8.48 M
Lead	<0.7 mg/kg	TM181	10.5 M	53.7 M	53.2 M	62.2 M	6.96 #	5.57 M
Mercury	<0.14 mg/kg	TM181	<0.14 M	0.311 M	0.242 M	0.292 M	<0.14 #	<0.14 M
Nickel	<0.2 mg/kg	TM181	26.5 M	18.9 M	19.2 M	18.3 M	8.72 #	15 M
Selenium	<1 mg/kg	TM181	2.46 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181	56.3 M	78.8 M	74.1 M	72.3 M	26.4 #	49.7 M
ANC @ pH 4	<0.03 mol/kg	TM182	1.17	0.276	0.425	0.278	0.539	0.192
ANC @ pH 6	<0.03 mol/kg	TM182	0.183	0.0488	0.0637	0.053	0.104	0.0701
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH231	BH231	BH231	BH231	BH231	BH231
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190855	19190857	19190866	19190869	19190872	19190858
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	6.9	15	7.1	13	10	22
Loss on ignition	<0.7 %	TM018	3.86	5.45	<0.7	1.26	1.19	4.91
Mineral Oil Surrogate % recovery**	%	TM061	73.1	68.2	73.2	76.4	70.3	75.5
Mineral oil >C10-C40	<1 mg/kg	TM061	31.5	38.6	1.5	<1	13.6	141
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	0.243
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	0.461
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	0.0236	<0.015	<0.015	<0.015	4.12
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	4.83
Organic Carbon, Total	<0.2 %	TM132	1.54	0.324	1.46	0.782	0.73	2.08
pH	1 pH Units	TM133	8.41	7.68	9.31	9.41	8.45	7.64
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	33.4	10.6	4.8	4.79	7.48	11.8
Cadmium	<0.02 mg/kg	TM181	10.6	0.947	0.62	1.04	1.48	2.72
Chromium	<0.9 mg/kg	TM181	23.7	12	8.86	5.98	6.99	13.3
Copper	<1.4 mg/kg	TM181	176	26.2	6.78	7.67	17.5	39.4
Lead	<0.7 mg/kg	TM181	839	52.8	2.97	4.42	8.44	76.2
Mercury	<0.14 mg/kg	TM181	<0.14	0.37	<0.14	<0.14	<0.14	0.286
Nickel	<0.2 mg/kg	TM181	29.4	18.1	16.3	15.2	23.4	18.9
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	2.12	<1
Zinc	<1.9 mg/kg	TM181	1720	157	42.3	50.8	70.4	458
ANC @ pH 4	<0.03 mol/kg	TM182	0.176	0.148	0.28	0.189	1.11	0.379
ANC @ pH 6	<0.03 mol/kg	TM182	0.0636	0.0424	0.0997	0.0875	0.194	0.0591
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	71.1	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	759	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH231	BH231	BH231	BH231	BH231	BH236
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190859	19190860	19190861	19190862	19190865	19190875
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	22	12	11	15	8.2	16
Loss on ignition	<0.7 %	TM018	6.44	4.61	1.68	6.49	1.09	2.96
Mineral Oil Surrogate % recovery**	%	TM061	75.7	66.1	74.4	73.1	75.6	72.9
Mineral oil >C10-C40	<1 mg/kg	TM061	32.8	14.4	40.4	12.7	<1	62
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	0.0512	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	0.0512	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	0.218	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	0.32	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.82	2.42	0.357	3.1	0.343	2.31
pH	1 pH Units	TM133	7.3	7.82	7.86	8.03	9.49	10.8
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	12.5	5.84	7.25	6.57	3.16	20.7
Cadmium	<0.02 mg/kg	TM181	1.03	0.377	0.33	0.476	0.447	2.36
Chromium	<0.9 mg/kg	TM181	17	7.65	9.5	7.23	4.62	11.5
Copper	<1.4 mg/kg	TM181	37.8	14.8	10.9	13.8	5.71	159
Lead	<0.7 mg/kg	TM181	56.2	25.7	22.9	16.4	1.02	284
Mercury	<0.14 mg/kg	TM181	0.281	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	20.7	9.48	11.9	19.6	10.7	17.4
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	131	39.1	40.5	64.7	28.5	754
ANC @ pH 4	<0.03 mol/kg	TM182	0.506	0.128	0.109	0.373	0.137	0.602
ANC @ pH 6	<0.03 mol/kg	TM182	0.0672	0.0516	0.0494	0.1	0.0636	0.0743
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	28.1
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	272



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH236	BH236	BH236	BH236	BH236	BH236
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190876	19190877	19190889	19190891	19190878	19190879
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	20	24	13	6.4	26	23
Loss on ignition	<0.7 %	TM018	5.34	5.85	1.78	2.01	5	6.96
Mineral Oil Surrogate % recovery**	%	TM061	79.1	80.3	73.3	74.6	70.2	73.7
Mineral oil >C10-C40	<1 mg/kg	TM061	325	188	<1	<1	129	12.6
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.62	2.26	0.566	0.703	6.38	2.44
pH	1 pH Units	TM133	7.86	7.54	8.72	8.28	7.65	7.45
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	22.6	14.2	8.27	7.78	12.4	12.1
Cadmium	<0.02 mg/kg	TM181	2.58	1.18	2.02	1.45	0.722	0.728
Chromium	<0.9 mg/kg	TM181	11.4	15.5	9.46	7.9	15.1	15.9
Copper	<1.4 mg/kg	TM181	153	63.1	20.1	20	43	34.5
Lead	<0.7 mg/kg	TM181	274	123	51.8	9.28	86.5	81.2
Mercury	<0.14 mg/kg	TM181	0.181	0.378	<0.14	<0.14	0.609	0.367
Nickel	<0.2 mg/kg	TM181	32.1	27.8	28.2	26	20.6	20.4
Selenium	<1 mg/kg	TM181	<1	<1	2.58	2.28	<1	<1
Zinc	<1.9 mg/kg	TM181	714	252	61	58.8	96.5	84.3
ANC @ pH 4	<0.03 mol/kg	TM182	0.326	0.401	1.19	1.05	0.417	0.272
ANC @ pH 6	<0.03 mol/kg	TM182	0.0525	0.0447	0.215	0.16	0.0675	0.0527
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	12.4	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH236	BH236	BH236	BH236	BH237	BH237
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled SDG Ref Lab Sample No.(s) AGS Reference	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	0.50 - 1.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
* Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery. 1-3*§@ Sample deviation (see appendix)			19190880	19190881	19190884	19190885	19190893	19190894
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	17	16	9.9	9	20	18
Loss on ignition	<0.7 %	TM018	6.58	3.72	1.07	0.819	4.52	3.24
Mineral Oil Surrogate % recovery**	%	TM061	67.3	74.2	75.6	74.9	74.4	75
Mineral oil >C10-C40	<1 mg/kg	TM061	8.72	13.4	<1	<1	38.2	20.4
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0125	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.2	0.362	0.48	0.269	0.451	8.99
pH	1 pH Units	TM133	7.82	8	9.15	9.56	7.99	8.34
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11.8	9.33	4.9	4.32	74.2	74.9
Cadmium	<0.02 mg/kg	TM181	0.467	0.445	0.563	0.716	20.2	14
Chromium	<0.9 mg/kg	TM181	12	10.1	7.19	6.47	<9	1.08
Copper	<1.4 mg/kg	TM181	34.9	22.1	8.81	6.19	1730	1260
Lead	<0.7 mg/kg	TM181	79	47.6	20.2	4.83	2760	2350
Mercury	<0.14 mg/kg	TM181	0.551	0.317	<0.14	<0.14	<1.4	<0.14
Nickel	<0.2 mg/kg	TM181	17.3	14.4	13.6	14.2	20.3	13.8
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<10	<1
Zinc	<1.9 mg/kg	TM181	69.4	54.5	44.6	41.2	7180	7810
ANC @ pH 4	<0.03 mol/kg	TM182	0.232	0.201	0.297	0.319	0.28	0.271
ANC @ pH 6	<0.03 mol/kg	TM182	0.0625	0.0604	0.12	0.128	0.0661	0.0687
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	16.9	25.7
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	433



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH237	BH237	BH237	BH237	BH237	BH237
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190896	19190914	19190916	19190898	19190899	19190901
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	22	11	6.7	24	22	20
Loss on ignition	<0.7 %	TM018	5.82	1.27	1.32	10.5	9.95	7.89
Mineral Oil Surrogate % recovery**	%	TM061	68.8	75.9	72.1	70.4	72.3	73
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	11.4	22.8	14.4	19
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.61	<0.2	0.308	1.16	4.38	2.79
pH	1 pH Units	TM133	7.7	9.25	8.44	8.12	8.63	8.48
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	13.8	6.39	7.71	12.7	12.9	14.1
Cadmium	<0.02 mg/kg	TM181	1.89	1.19	1.99	1.18	0.868	0.689
Chromium	<0.9 mg/kg	TM181	13.5	11.9	6.95	17.5	17.8	16.7
Copper	<1.4 mg/kg	TM181	107	13.7	19.3	71.8	70.5	52.7
Lead	<0.7 mg/kg	TM181	229	20.6	16.1	156	139	139
Mercury	<0.14 mg/kg	TM181	0.422	<0.14	<0.14	0.794	0.691	0.543
Nickel	<0.2 mg/kg	TM181	18.5	56.3	23.5	22.7	22.9	22.4
Selenium	<1 mg/kg	TM181	<1	<1	2.33	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	612	83.7	139	257	225	127
ANC @ pH 4	<0.03 mol/kg	TM182	0.612	0.365	1.21	0.29	0.398	0.286
ANC @ pH 6	<0.03 mol/kg	TM182	0.0584	0.129	0.136	0.0591	0.0898	0.0817
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH237	BH237	BH237	BH237	BH238	BH238
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled SDG Ref Lab Sample No.(s) AGS Reference	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	1.00 - 2.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		21/01/2019	21/01/2019	21/01/2019	21/01/2019	18/01/2019	18/01/2019
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
* Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery. 1-3*§@ Sample deviation (see appendix)			19190903	19190905	19190908	19190910	19190919	19190921
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	14	11	6.3	10	11	12
Loss on ignition	<0.7 %	TM018	2.26	<0.7	1.24	1.4	1.17	12.2
Mineral Oil Surrogate % recovery**	%	TM061	75.4	74.5	76.8	71.6	76	68.9
Mineral oil >C10-C40	<1 mg/kg	TM061	1.42	1.25	<1	<1	80.9	12.4
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0112	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	0.056	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	0.0672	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.356	2.77	0.533	0.335	1.14	2.68
pH	1 pH Units	TM133	8.03	8.22	9.4	9.11	11.4	7.72
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	8.07	5.89	5	4.88	9.67	11.5
Cadmium	<0.02 mg/kg	TM181	0.502	0.571	0.776	0.657	0.606	0.646
Chromium	<0.9 mg/kg	TM181	7.94	8.14	3.96	6.14	6.37	14.5
Copper	<1.4 mg/kg	TM181	15.8	10.3	5.95	8.4	65.5	37.9
Lead	<0.7 mg/kg	TM181	33.7	15.6	3.25	3.1	65.4	104
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	0.468
Nickel	<0.2 mg/kg	TM181	12.5	13	11.2	16.4	11.5	19.5
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	51.1	82.5	33.2	48.9	113	71.9
ANC @ pH 4	<0.03 mol/kg	TM182	0.233	0.479	0.562	0.338	0.522	0.0917
ANC @ pH 6	<0.03 mol/kg	TM182	0.0811	0.135	0.156	0.112	0.185	0.0418
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	21.1	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH238	BH238	BH238	BH238	BH238	BH238
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190931	19190932	19190934	19190922	19190923	19190924
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	14	10	11	21	22	21
Loss on ignition	<0.7 %	TM018	1.03	0.929	1.32	14	16	5.92
Mineral Oil Surrogate % recovery**	%	TM061	69.8	72.8	71.6	74.3	68.4	73.7
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	1.17	31.3	28.1	170
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0128	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0256	0.0126
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.319	0.48	0.768	3.11	3.14	2.18
pH	1 pH Units	TM133	9.22	9.04	8.42	8.04	8.68	8.16
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.32	5.65	7.5	13.7	14	12.2
Cadmium	<0.02 mg/kg	TM181	0.857	1.06	1.37	0.855	0.734	0.661
Chromium	<0.9 mg/kg	TM181	6.95	5.47	8.2	19.5	19	11.3
Copper	<1.4 mg/kg	TM181	9.25	9.54	16.9	46.3	66.6	49.2
Lead	<0.7 mg/kg	TM181	8.2	5.58	7.82	169	146	105
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	0.565	1.04	0.661
Nickel	<0.2 mg/kg	TM181	21.7	14.2	24.3	24.7	25.2	20.2
Selenium	<1 mg/kg	TM181	<1	1.43	2.02	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	84.4	53.7	51.6	223	105	74.1
ANC @ pH 4	<0.03 mol/kg	TM182	0.231	0.495	0.937	0.331	0.17	0.33
ANC @ pH 6	<0.03 mol/kg	TM182	0.072	0.118	0.156	0.0564	0.0769	0.0773
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH238	BH238	BH238			
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00			
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
		Date Sampled	18/01/2019	18/01/2019	18/01/2019			
		Date Received	23/01/2019	23/01/2019	23/01/2019			
		SDG Ref	190124-133	190124-133	190124-133			
		Lab Sample No.(s)	19190925	19190926	19190929			
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	12	9.1	7			
Loss on ignition	<0.7 %	TM018	1.15	1.39	0.855			
Mineral Oil Surrogate % recovery**	%	TM061	78	75.2	74.7			
Mineral oil >C10-C40	<1 mg/kg	TM061	26.1	11.5	<1			
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015			
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	0.0114	0.011	<0.01			
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	0.171	0.121	<0.015			
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	0.182	0.132	<0.06			
Organic Carbon, Total	<0.2 %	TM132	<0.2	1.3	0.381			
pH	1 pH Units	TM133	8.16	8.5	9.43			
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6			
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3			
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21			
Arsenic	<0.6 mg/kg	TM181	5.73	5.89	5.53			
Cadmium	<0.02 mg/kg	TM181	0.384	0.372	0.727			
Chromium	<0.9 mg/kg	TM181	5.7	5.53	6.81			
Copper	<1.4 mg/kg	TM181	7.94	9.62	6.99			
Lead	<0.7 mg/kg	TM181	9.81	7.8	8.05			
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14			
Nickel	<0.2 mg/kg	TM181	12.6	12.7	15.9			
Selenium	<1 mg/kg	TM181	<1	<1	<1			
Zinc	<1.9 mg/kg	TM181	29.6	31.4	62			
ANC @ pH 4	<0.03 mol/kg	TM182	0.406	0.308	0.307			
ANC @ pH 6	<0.03 mol/kg	TM182	0.0942	0.0863	0.0887			
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10			
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH230	BH230	BH230	BH230	BH230	BH230	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
*	Subcontracted - refer to subcontractor report for accreditation status.		19190837	19190838	19190839	19190848	19190850	19190852	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	111	106	95.9	108	113	105
Acenaphthene-d10 % recovery**	%	TM218	112	109	103	110	109	106	
Phenanthrene-d10 % recovery**	%	TM218	106	109	107	108	95.9	101	
Chrysene-d12 % recovery**	%	TM218	119	117	111	116	93.9	109	
Perylene-d12 % recovery**	%	TM218	116	106	102	106	92.3	95.6	
Naphthalene	<9 µg/kg	TM218	45	<9	10.8	<9	<9	<9	
Acenaphthylene	<12 µg/kg	TM218	325	<12	38.9	<12	<12	<12	
Acenaphthene	<8 µg/kg	TM218	62	122	74.2	<8	<8	<8	
Fluorene	<10 µg/kg	TM218	382	19.7	61.6	<10	<10	<10	
Phenanthrene	<15 µg/kg	TM218	2700	112	389	<15	<15	<15	
Anthracene	<16 µg/kg	TM218	1470	61.6	263	<16	<16	<16	
Fluoranthene	<17 µg/kg	TM218	4540	158	679	<17	<17	<17	
Pyrene	<15 µg/kg	TM218	3730	129	514	<15	<15	<15	
Benz(a)anthracene	<14 µg/kg	TM218	2210	82.6	337	<14	<14	<14	
Chrysene	<10 µg/kg	TM218	1710	75.1	250	<10	<10	<10	
Benzo(b)fluoranthene	<15 µg/kg	TM218	2390	86.2	329	<15	<15	<15	
Benzo(k)fluoranthene	<14 µg/kg	TM218	937	33.7	119	<14	<14	<14	
Benzo(a)pyrene	<15 µg/kg	TM218	1980	58.5	246	<15	<15	<15	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	844	26	86	<18	<18	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	216	<23	29.2	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	1080	35.1	123	<24	<24	<24	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	24600	999	3550	<118	<118	<118	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH230	BH230	BH230	BH230	BH230	BH230	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH230	BH230	BH230	BH230	BH230	BH230	
M	mCERTS accredited.		16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00	
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
diss.filt	Dissolved / filtered sample.		16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	
tot.unfilt	Total / unfiltered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	
*	Subcontracted - refer to subcontractor report for accreditation status.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.		19146735	19190840	19190841	19190842	19190844	19190847	
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	100	110	109	101	113	105
Acenaphthene-d10 % recovery**	%	TM218	103	117	109	113	112	116	
Phenanthrene-d10 % recovery**	%	TM218	97.2	120	104	117	99.9	116	
Chrysene-d12 % recovery**	%	TM218	92.4	122	112	112	103	113	
Perylene-d12 % recovery**	%	TM218	73.6	108	107	92.5	104	93.8	
Naphthalene	<9 µg/kg	TM218	10.2	55.2	38.6	17.6	<9	<9	
Acenaphthylene	<12 µg/kg	TM218	<12	19.1	<12	<12	<12	<12	
Acenaphthene	<8 µg/kg	TM218	<8	29.6	23.6	<8	<8	<8	
Fluorene	<10 µg/kg	TM218	12.2	65.8	48.9	14.3	<10	<10	
Phenanthrene	<15 µg/kg	TM218	39.9	213	163	70.5	<15	<15	
Anthracene	<16 µg/kg	TM218	<16	123	87.6	33.9	<16	<16	
Fluoranthene	<17 µg/kg	TM218	<17	349	252	119	<17	<17	
Pyrene	<15 µg/kg	TM218	<15	279	196	92.2	<15	<15	
Benz(a)anthracene	<14 µg/kg	TM218	20.3	167	126	62.3	<14	<14	
Chrysene	<10 µg/kg	TM218	<10	150	107	48.2	<10	<10	
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	174	128	57.8	<15	<15	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	67.8	50.9	19.6	<14	<14	
Benzo(a)pyrene	<15 µg/kg	TM218	<15	137	91.8	35.7	<15	<15	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	46.9	37.7	<18	<18	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	70.1	51.8	<24	<24	<24	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	1950	1400	571	<118	<118	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH231	BH231	BH231	BH231	BH231	BH231
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190855	19190857	19190866	19190869	19190872	19190858
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	107	107	109	112	107	116
Acenaphthene-d10 % recovery**	%	TM218	112	111	111	109	108	112
Phenanthrene-d10 % recovery**	%	TM218	113	110	109	98.4	107	109
Chrysene-d12 % recovery**	%	TM218	121	118	114	99.1	112	122
Perylene-d12 % recovery**	%	TM218	105	109	104	101	99.6	114
Naphthalene	<9 µg/kg	TM218	1370	192	<9	<9	<9	224
			M	M	M	M	M	M
Acenaphthylene	<12 µg/kg	TM218	125	<12	<12	<12	<12	<12
			M	M	M	M	M	M
Acenaphthene	<8 µg/kg	TM218	1860	64.6	<8	<8	<8	26.2
			M	M	M	M	M	M
Fluorene	<10 µg/kg	TM218	1410	66.1	<10	<10	<10	48.3
			M	M	M	M	M	M
Phenanthrene	<15 µg/kg	TM218	11300	478	<15	<15	19.6	169
			M	M	M	M	M	M
Anthracene	<16 µg/kg	TM218	1700	99	<16	<16	<16	91.2
			M	M	M	M	M	M
Fluoranthene	<17 µg/kg	TM218	12000	528	<17	<17	<17	281
			M	M	M	M	M	M
Pyrene	<15 µg/kg	TM218	10800	470	<15	<15	<15	233
			M	M	M	M	M	M
Benz(a)anthracene	<14 µg/kg	TM218	5280	256	<14	<14	<14	156
			M	M	M	M	M	M
Chrysene	<10 µg/kg	TM218	4940	240	<10	<10	<10	156
			M	M	M	M	M	M
Benzo(b)fluoranthene	<15 µg/kg	TM218	6720	296	<15	<15	<15	187
			M	M	M	M	M	M
Benzo(k)fluoranthene	<14 µg/kg	TM218	2690	118	<14	<14	<14	71.8
			M	M	M	M	M	M
Benzo(a)pyrene	<15 µg/kg	TM218	4870	219	<15	<15	<15	130
			M	M	M	M	M	M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	2180	89.6	<18	<18	<18	55.5
			M	M	M	M	M	M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
			M	M	M	M	M	M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	3080	126	<24	<24	<24	79.4
			M	M	M	M	M	M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	70300	3240	<118	<118	<118	1910



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH231	BH231	BH231	BH231	BH231	BH236
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190859	19190860	19190861	19190862	19190865	19190875
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	102	99.9	112	108	112	101
Acenaphthene-d10 % recovery**	%	TM218	113	108	111	110	111	115
Phenanthrene-d10 % recovery**	%	TM218	118	110	101	107	98.4	119
Chrysene-d12 % recovery**	%	TM218	124	111	107	117	99.4	115
Perylene-d12 % recovery**	%	TM218	114	103	103	107	99.6	94.9
Naphthalene	<9 µg/kg	TM218	86.9	16.2	<9	41.7	<9	110
Acenaphthylene	<12 µg/kg	TM218	18.5	<12	<12	<12	<12	271
Acenaphthene	<8 µg/kg	TM218	34.5	<8	<8	24.7	<8	363
Fluorene	<10 µg/kg	TM218	81.4	15.5	<10	34	<10	718
Phenanthrene	<15 µg/kg	TM218	281	54.2	31.4	146	<15	3130
Anthracene	<16 µg/kg	TM218	135	25.5	<16	48.5	21.2	1610
Fluoranthene	<17 µg/kg	TM218	425	70.2	<17	157	<17	5930
Pyrene	<15 µg/kg	TM218	339	58	33.5	128	<15	4640
Benz(a)anthracene	<14 µg/kg	TM218	224	47.5	23.5	78.8	<14	2490
Chrysene	<10 µg/kg	TM218	169	39.1	18.4	66.9	12	1970
Benzo(b)fluoranthene	<15 µg/kg	TM218	154	54.1	25.6	84.5	<15	2450
Benzo(k)fluoranthene	<14 µg/kg	TM218	91.8	<14	<14	32.3	<14	876
Benzo(a)pyrene	<15 µg/kg	TM218	176	32.7	<15	55.9	<15	1610
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	70.1	<18	<18	<18	<18	715
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	33.1	<23	<23	<23	<23	196
Benzo(g,h,i)perylene	<24 µg/kg	TM218	92.6	<24	<24	30	<24	734
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2410	413	132	929	<118	27800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH236	BH236	BH236	BH236	BH236	BH236
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190876	19190877	19190889	19190891	19190878	19190879
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	110	107	102	108	104	107
Acenaphthene-d10 % recovery**	%	TM218	111	114	108	105	113	111
Phenanthrene-d10 % recovery**	%	TM218	106	115	103	92.3	108	109
Chrysene-d12 % recovery**	%	TM218	117	121	103	85.4	109	121
Perylene-d12 % recovery**	%	TM218	115	111	88.8	73.7	99.9	109
Naphthalene	<9 µg/kg	TM218	125	52	<9	<9	138	180
Acenaphthylene	<12 µg/kg	TM218	129	48	<12	<12	52.5	<12
Acenaphthene	<8 µg/kg	TM218	221	63.3	<8	<8	118	92.6
Fluorene	<10 µg/kg	TM218	243	103	<10	<10	268	258
Phenanthrene	<15 µg/kg	TM218	736	245	<15	<15	545	1060
Anthracene	<16 µg/kg	TM218	830	240	<16	<16	324	405
Fluoranthene	<17 µg/kg	TM218	2410	766	<17	<17	1100	1310
Pyrene	<15 µg/kg	TM218	1950	617	<15	<15	806	1030
Benz(a)anthracene	<14 µg/kg	TM218	954	391	<14	<14	557	783
Chrysene	<10 µg/kg	TM218	919	331	<10	<10	456	610
Benzo(b)fluoranthene	<15 µg/kg	TM218	1340	457	<15	<15	566	696
Benzo(k)fluoranthene	<14 µg/kg	TM218	541	198	<14	<14	273	297
Benzo(a)pyrene	<15 µg/kg	TM218	908	327	<15	<15	398	534
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	439	129	<18	<18	148	178
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	111	39.8	<23	<23	<23	51.1
Benzo(g,h,i)perylene	<24 µg/kg	TM218	575	167	<24	<24	179	208
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	12400	4170	<118	<118	5930	7700



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH236	BH236	BH236	BH236	BH237	BH237	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	0.50 - 1.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	
*	Subcontracted - refer to subcontractor report for accreditation status.		19190880	19190881	19190884	19190885	19190893	19190894	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	104	111	109	102	99.7	100
Acenaphthene-d10 % recovery**	%	TM218	110	109	112	112	112	114	
Phenanthrene-d10 % recovery**	%	TM218	114	104	111	116	115	121	
Chrysene-d12 % recovery**	%	TM218	121	114	118	117	121	114	
Perylene-d12 % recovery**	%	TM218	109	108	111	98	109	91	
Naphthalene	<9 µg/kg	TM218	63.9	37.4	<9	<9	61.3	88.2	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	132	246	
Acenaphthene	<8 µg/kg	TM218	26	18.2	<8	<8	68.4	82.2	
Fluorene	<10 µg/kg	TM218	66.2	43.4	<10	<10	138	201	
Phenanthrene	<15 µg/kg	TM218	228	124	<15	<15	1600	2540	
Anthracene	<16 µg/kg	TM218	94	56.3	<16	<16	382	609	
Fluoranthene	<17 µg/kg	TM218	266	162	<17	<17	3080	4860	
Pyrene	<15 µg/kg	TM218	210	126	<15	<15	2700	4290	
Benz(a)anthracene	<14 µg/kg	TM218	134	82.5	<14	<14	1540	2330	
Chrysene	<10 µg/kg	TM218	115	63.7	<10	<10	1490	2190	
Benzo(b)fluoranthene	<15 µg/kg	TM218	142	83.7	<15	<15	1420	2830	
Benzo(k)fluoranthene	<14 µg/kg	TM218	58.7	25.6	<14	<14	786	936	
Benzo(a)pyrene	<15 µg/kg	TM218	93.3	55.3	<15	<15	1590	1910	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	35.5	<18	<18	<18	696	926	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	259	242	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	51	30.2	<24	<24	950	1010	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1580	908	<118	<118	16900	25300	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH237	BH237	BH237	BH237	BH237	BH237	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	
*	Subcontracted - refer to subcontractor report for accreditation status.		19190896	19190914	19190916	19190898	19190899	19190901	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	104	110	105	101	99	109
Acenaphthene-d10 % recovery**	%	TM218	113	108	105	108	112	110	
Phenanthrene-d10 % recovery**	%	TM218	117	98.6	103	111	116	106	
Chrysene-d12 % recovery**	%	TM218	120	104	105	120	119	113	
Perylene-d12 % recovery**	%	TM218	108	104	87.3	109	109	105	
Naphthalene	<9 µg/kg	TM218	21	<9	<9	55	54.9	24.5	
Acenaphthylene	<12 µg/kg	TM218	16.1	<12	<12	15.8	28.8	<12	
Acenaphthene	<8 µg/kg	TM218	17.2	<8	<8	27.3	31	10.5	
Fluorene	<10 µg/kg	TM218	<10	<10	<10	60	83.8	29.4	
Phenanthrene	<15 µg/kg	TM218	198	<15	18.9	274	362	109	
Anthracene	<16 µg/kg	TM218	96.1	<16	18.8	108	161	47.5	
Fluoranthene	<17 µg/kg	TM218	349	<17	<17	354	536	122	
Pyrene	<15 µg/kg	TM218	275	<15	<15	297	425	104	
Benz(a)anthracene	<14 µg/kg	TM218	189	<14	<14	192	289	76.9	
Chrysene	<10 µg/kg	TM218	154	<10	<10	163	254	64.6	
Benzo(b)fluoranthene	<15 µg/kg	TM218	196	<15	<15	203	321	90.4	
Benzo(k)fluoranthene	<14 µg/kg	TM218	84.8	<14	<14	72.2	143	27.8	
Benzo(a)pyrene	<15 µg/kg	TM218	137	<15	<15	149	232	54.2	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	52.8	<18	<18	53.2	81.8	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	66	<24	<24	74.3	109	36	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1850	<118	<118	2100	3110	796	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH237	BH237	BH237	BH237	BH238	BH238	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	1.00 - 2.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		21/01/2019	21/01/2019	21/01/2019	21/01/2019	18/01/2019	18/01/2019	
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	
*	Subcontracted - refer to subcontractor report for accreditation status.		19190903	19190905	19190908	19190910	19190919	19190921	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	102	110	109	105	102	102
Acenaphthene-d10 % recovery**	%	TM218	114	110	113	111	111	107	
Phenanthrene-d10 % recovery**	%	TM218	116	108	109	103	111	108	
Chrysene-d12 % recovery**	%	TM218	118	120	112	105	120	118	
Perylene-d12 % recovery**	%	TM218	99.2	109	108	100	113	109	
Naphthalene	<9 µg/kg	TM218	<9	10.1	<9	<9	288	77.5	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	126	25.4	
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	1360	97.5	
Fluorene	<10 µg/kg	TM218	<10	<10	<10	<10	1070	140	
Phenanthrene	<15 µg/kg	TM218	24.5	27.7	<15	<15	3980	459	
Anthracene	<16 µg/kg	TM218	<16	<16	<16	<16	1490	203	
Fluoranthene	<17 µg/kg	TM218	27.6	30.2	<17	<17	4630	596	
Pyrene	<15 µg/kg	TM218	22.3	24.2	<15	<15	3600	452	
Benz(a)anthracene	<14 µg/kg	TM218	21.3	16.6	<14	<14	964	265	
Chrysene	<10 µg/kg	TM218	13.4	13.4	<10	<10	855	207	
Benzo(b)fluoranthene	<15 µg/kg	TM218	18.5	17.6	<15	<15	853	256	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	337	88.6	
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	683	178	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	307	64.6	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	104	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	405	78.9	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	128	140	<118	<118	21100	3190	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH238	BH238	BH238	BH238	BH238	BH238
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190931	19190932	19190934	19190922	19190923	19190924
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	107	102	103	109	104	104
Acenaphthene-d10 % recovery**	%	TM218	110	112	109	111	111	108
Phenanthrene-d10 % recovery**	%	TM218	108	116	107	109	107	112
Chrysene-d12 % recovery**	%	TM218	111	115	106	118	106	122
Perylene-d12 % recovery**	%	TM218	99.2	95.6	90.1	107	98.5	112
Naphthalene	<9 µg/kg	TM218	<9	<9	<9	107	219	104
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	34.9	55.3	26.2
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	58.1	142	47.4
Fluorene	<10 µg/kg	TM218	<10	<10	<10	143	300	103
Phenanthrene	<15 µg/kg	TM218	<15	<15	<15	587	1120	440
Anthracene	<16 µg/kg	TM218	<16	<16	<16	266	404	152
Fluoranthene	<17 µg/kg	TM218	<17	<17	<17	860	1150	452
Pyrene	<15 µg/kg	TM218	<15	<15	<15	715	895	367
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	435	557	211
Chrysene	<10 µg/kg	TM218	<10	<10	<10	391	416	182
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	430	587	240
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	183	222	89.5
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	355	422	149
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	125	155	59.2
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	41.5	54.8	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	168	206	79.3
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	<118	4900	6900	2700



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH238	BH238	BH238			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00			
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
aq	Aqueous / settled sample.		18/01/2019	18/01/2019	18/01/2019			
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019			
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133			
*	Subcontracted - refer to subcontractor report for accreditation status.		19190925	19190926	19190929			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	102	111	101			
Acenaphthene-d10 % recovery**	%	TM218	112	109	111			
Phenanthrene-d10 % recovery**	%	TM218	114	99.7	115			
Chrysene-d12 % recovery**	%	TM218	125	103	125			
Perylene-d12 % recovery**	%	TM218	116	102	114			
Naphthalene	<9 µg/kg	TM218	13.2	<9	<9	#	M	M
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	#	M	M
Acenaphthene	<8 µg/kg	TM218	15.4	24.3	<8	#	M	M
Fluorene	<10 µg/kg	TM218	<10	11.4	<10	#	M	M
Phenanthrene	<15 µg/kg	TM218	33.1	24.8	<15	#	M	M
Anthracene	<16 µg/kg	TM218	<16	<16	<16	#	M	M
Fluoranthene	<17 µg/kg	TM218	30.1	20.2	<17	#	M	M
Pyrene	<15 µg/kg	TM218	22.6	<15	<15	#	M	M
Benzo(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	#	M	M
Chrysene	<10 µg/kg	TM218	12.2	<10	<10	#	M	M
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	#	M	M
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	#	M	M
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	#	M	M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	#	M	M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	#	M	M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	#	M	M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	127	<118	<118			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH230	BH230	BH230	BH230	BH230	BH230
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190837	19190838	19190839	19190848	19190850	19190852
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	78	85	83	86	82	26.4
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	474	36800	6670	715	475	2320
Aliphatics >C5-C6	<10 µg/kg	TM089	17.4	21.4	22.2	17.6	16.8	183
Aliphatics >C6-C8	<10 µg/kg	TM089	45.7	146	71.4	39.6	37.2	101
Aliphatics >C8-C10	<10 µg/kg	TM089	91.4	9150	1610	145	88.8	482
Aliphatics >C10-C12	<10 µg/kg	TM089	152	12800	2340	249	163	741
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	8940	<100	235	293	2100
Aliphatics >C16-C21	<100 µg/kg	TM173	1210	12100	1870	506	842	3200
Aliphatics >C21-C35	<100 µg/kg	TM173	25600	415000	37700	3290	7410	20300
Aliphatics >C35-C44	<100 µg/kg	TM173	6630	92200	7600	972	1380	3230
Total Aliphatics >C12-C44	<100 µg/kg	TM173	33400	528000	47200	5000	9930	28900
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	60.9	6100	1070	96.7	58.8	321
Aromatics >EC10-EC12	<10 µg/kg	TM089	101	8540	1560	166	109	494
Aromatics >EC12-EC16	<100 µg/kg	TM173	1360	1400	675	<100	<100	1000
Aromatics >EC16-EC21	<100 µg/kg	TM173	15700	12100	6900	<100	<100	1710
Aromatics >EC21-EC35	<100 µg/kg	TM173	49100	157000	34800	<100	254	7250
Aromatics >EC35-EC44	<100 µg/kg	TM173	11300	39500	9490	<100	<100	972
Aromatics >EC40-EC44	<100 µg/kg	TM173	3140	9300	3900	<100	<100	155
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	77500	210000	51800	<100	254	10900
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	111000	775000	106000	5720	10700	42100



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH230	BH230	BH230	BH230	BH230	BH230
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19146735	19190840	19190841	19190842	19190844	19190847
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	15.8	124	76	115	75	105
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	126	6850	10900	5450	2790	190
Aliphatics >C5-C6	<10 µg/kg	TM089	15.9	43.9	45.6	66.8	24.2	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	22.3	122	147	94.5	67.9	21.9
Aliphatics >C8-C10	<10 µg/kg	TM089	23.4	1650	2680	1440	572	39.5
Aliphatics >C10-C12	<10 µg/kg	TM089	27.6	2360	3740	1730	1050	53.7
Aliphatics >C12-C16	<100 µg/kg	TM173	1190	2020	3010	452	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	1680	6360	4190	2870	1080	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	15900	44300	23800	27600	15600	796
Aliphatics >C35-C44	<100 µg/kg	TM173	2780	6100	2470	3680	2270	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	21600	58800	33500	34600	19000	796
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	15.9	1100	1790	961	382	26.3
Aromatics >EC10-EC12	<10 µg/kg	TM089	19.1	1580	2490	1150	699	36.2
Aromatics >EC12-EC16	<100 µg/kg	TM173	412	1520	149	5140	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	867	13400	4700	11200	2020	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	5080	70700	27400	50900	10600	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	804	11900	3060	17000	4860	310
Aromatics >EC40-EC44	<100 µg/kg	TM173	177	2710	409	7930	2570	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	7170	97500	35300	84100	17500	310
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	28800	163000	79700	124000	39300	1280



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH231	BH231	BH231	BH231	BH231	BH231	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	
*	Subcontracted - refer to subcontractor report for accreditation status.		19190855	19190857	19190866	19190869	19190872	19190858	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
GRO Surrogate % recovery**	%		TM089	83 @	87.9 @	114 @	102 @	42.4 @	118 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	417 @ M	5040 @	894 @	124 @	7260 @ M	17000 @	
Aliphatics >C5-C6	<10 µg/kg	TM089	14 @	38.9 @	20.5 @	<10 @	44.4 @	64 @	
Aliphatics >C6-C8	<10 µg/kg	TM089	40.8 @	538 @	52.8 @	18.4 @	102 @	220 @	
Aliphatics >C8-C10	<10 µg/kg	TM089	61.2 @	1710 @	181 @	21.9 @	1580 @	4640 @	
Aliphatics >C10-C12	<10 µg/kg	TM089	154 @	964 @	308 @	36.8 @	2700 @	5360 @	
Aliphatics >C12-C16	<100 µg/kg	TM173	324 @	<100 @	<100 @	<100 @	<100 @	1180 @	
Aliphatics >C16-C21	<100 µg/kg	TM173	2080 @	1290 @	757 @	<100 @	2010 @	7900 @	
Aliphatics >C21-C35	<100 µg/kg	TM173	23300 @	11500 @	3960 @	714 @	36600 @	129000 @	
Aliphatics >C35-C44	<100 µg/kg	TM173	18100 @	1600 @	656 @	147 @	6350 @	22000 @	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	43800 @	14400 @	5380 @	861 @	44900 @	160000 @	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	15.3 @	<10 @	<10 @	<10 @	<10 @	
Aromatics >EC8-EC10	<10 µg/kg	TM089	40.8 @	1140 @	121 @	15 @	1050 @	3100 @	
Aromatics >EC10-EC12	<10 µg/kg	TM089	102 @	643 @	206 @	24.2 @	1800 @	3580 @	
Aromatics >EC12-EC16	<100 µg/kg	TM173	6870 @	854 @	<100 @	<100 @	184 @	182 @	
Aromatics >EC16-EC21	<100 µg/kg	TM173	32100 @	8460 @	<100 @	<100 @	1510 @	9050 @	
Aromatics >EC21-EC35	<100 µg/kg	TM173	106000 @	39000 @	<100 @	<100 @	11200 @	61200 @	
Aromatics >EC35-EC44	<100 µg/kg	TM173	50600 @	11600 @	<100 @	2310 @	3980 @	10200 @	
Aromatics >EC40-EC44	<100 µg/kg	TM173	21100 @	5360 @	<100 @	1600 @	1710 @	1540 @	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	196000 @	59900 @	<100 @	2310 @	16900 @	80600 @	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	240000 @	79400 @	6260 @	3290 @	69100 @	258000 @	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH231	BH231	BH231	BH231	BH231	BH236
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190859	19190860	19190861	19190862	19190865	19190875
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	95.8	94.9	95.4	127	94	139
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	8070 @	217 @	11500 @	4000 @	406 @	348 @ M
Aliphatics >C5-C6	<10 µg/kg	TM089	73 @	14.7 @	47 @	55.5 @	13.1 @	30 @
Aliphatics >C6-C8	<10 µg/kg	TM089	151 @	21.5 @	124 @	94.4 @	32.7 @	38.4 @
Aliphatics >C8-C10	<10 µg/kg	TM089	2070 @	33.9 @	2820 @	996 @	75.1 @	54 @
Aliphatics >C10-C12	<10 µg/kg	TM089	2640 @	73.5 @	3990 @	1310 @	139 @	113 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100 @	<100 @	749 @	<100 @	<100 @	8440 @
Aliphatics >C16-C21	<100 µg/kg	TM173	2320	1110	5490	1480	<100	20500
Aliphatics >C21-C35	<100 µg/kg	TM173	27800	18100	58100	19700	876	30900
Aliphatics >C35-C44	<100 µg/kg	TM173	3750	2830	12400	4420	<100	3780
Total Aliphatics >C12-C44	<100 µg/kg	TM173	33900	22100	76700	25600	876	63700
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	1380 @	22.6 @	1880 @	664 @	50.1 @	36 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	1760 @	49.7 @	2660 @	876 @	93.7 @	75.6 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	813	849	<100	558	<100	6810
Aromatics >EC16-EC21	<100 µg/kg	TM173	7890	5220	1850	4840	<100	36800
Aromatics >EC21-EC35	<100 µg/kg	TM173	36800	24400	16900	20300	<100	84400
Aromatics >EC35-EC44	<100 µg/kg	TM173	7260	4170	3520	4700	<100	15900
Aromatics >EC40-EC44	<100 µg/kg	TM173	1870	1030	811	1360	<100	4410
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	52700	34700	22300	30400	<100	144000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	94700	57000	111000	59900	1280	208000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH236	BH236	BH236	BH236	BH236	BH236
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190876	19190877	19190889	19190891	19190878	19190879
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	113	76	24	16	96	121
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	706 @	<100	<100 @ M	<100 @ M	346 @ M	465 @ M
Aliphatics >C5-C6	<10 µg/kg	TM089	33.5 @	<10	<10 @	<10 @	25.5 @	45.5 @
Aliphatics >C6-C8	<10 µg/kg	TM089	182 @	<10	<10 @	<10 @	61.6 @	61.1 @
Aliphatics >C8-C10	<10 µg/kg	TM089	119 @	<10	<10 @	<10 @	67 @	89.7 @
Aliphatics >C10-C12	<10 µg/kg	TM089	170 @	<10	<10 @	<10 @	88.4 @	124 @
Aliphatics >C12-C16	<100 µg/kg	TM173	8030	1200	2030	2360	1140	1340
Aliphatics >C16-C21	<100 µg/kg	TM173	21700	4680	1980	2310	4930	4650
Aliphatics >C21-C35	<100 µg/kg	TM173	320000	54200	5080	8680	40200	23700
Aliphatics >C35-C44	<100 µg/kg	TM173	94800	12600	1040	1560	9540	4140
Total Aliphatics >C12-C44	<100 µg/kg	TM173	444000	72700	10100	14900	55800	33800
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	79.4 @	<10	<10 @	<10 @	44.2 @	59.8 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	113 @	<10	<10 @	<10 @	59 @	83.2 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	4810	1510	<100	691	1780	3750
Aromatics >EC16-EC21	<100 µg/kg	TM173	30700	12700	<100	1880	14300	33100
Aromatics >EC21-EC35	<100 µg/kg	TM173	169000	66800	<100	3810	51100	105000
Aromatics >EC35-EC44	<100 µg/kg	TM173	53500	14300	<100	4140	9930	19100
Aromatics >EC40-EC44	<100 µg/kg	TM173	18100	3320	<100	2320	2470	5280
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	258000	95300	<100	10500	77200	161000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	703000	168000	10100	25400	133000	195000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH236	BH236	BH236	BH236	BH237	BH237
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190880	19190881	19190884	19190885	19190893	19190894
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	102	92	94.5	97.3	70	82
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	346	<100	<100	<100	209	129
Aliphatics >C5-C6	<10 µg/kg	TM089	27.8	<10	<10	<10	20	13.4
Aliphatics >C6-C8	<10 µg/kg	TM089	58.1	<10	<10	<10	56.3	37.8
Aliphatics >C8-C10	<10 µg/kg	TM089	72.6	<10	<10	<10	40	26.8
Aliphatics >C10-C12	<10 µg/kg	TM089	79.9	<10	<10	<10	35	18.3
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	311	<100	<100	<100	1010
Aliphatics >C16-C21	<100 µg/kg	TM173	3250	2120	<100	<100	<100	2310
Aliphatics >C21-C35	<100 µg/kg	TM173	13500	13300	4470	<100	12900	13600
Aliphatics >C35-C44	<100 µg/kg	TM173	1400	2040	953	<100	2720	3710
Total Aliphatics >C12-C44	<100 µg/kg	TM173	18100	17800	5420	<100	15600	20700
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	48.4	<10	<10	<10	27.5	18.3
Aromatics >EC10-EC12	<10 µg/kg	TM089	53.2	<10	<10	<10	23.8	12.2
Aromatics >EC12-EC16	<100 µg/kg	TM173	1330	1140	<100	<100	831	2000
Aromatics >EC16-EC21	<100 µg/kg	TM173	10700	7420	<100	<100	10600	20900
Aromatics >EC21-EC35	<100 µg/kg	TM173	41100	34100	1430	<100	34000	65200
Aromatics >EC35-EC44	<100 µg/kg	TM173	9410	6000	150	<100	8310	16600
Aromatics >EC40-EC44	<100 µg/kg	TM173	2700	1520	<100	<100	2640	5690
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	62500	48600	1580	<100	53800	105000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	80900	66400	7010	<100	69600	125000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH237	BH237	BH237	BH237	BH237	BH237
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190896	19190914	19190916	19190898	19190899	19190901
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	84	122	17			
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	<100	<100	@	@	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	@ M	@ M	
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10	10.7	@	@	
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10	<10	@	@	
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10	<10	@	@	
Aliphatics >C12-C16	<100 µg/kg	TM173	626	<100	1500			
Aliphatics >C16-C21	<100 µg/kg	TM173	2740	<100	1710			
Aliphatics >C21-C35	<100 µg/kg	TM173	19800	<100	15400			
Aliphatics >C35-C44	<100 µg/kg	TM173	4580	<100	3350			
Total Aliphatics >C12-C44	<100 µg/kg	TM173	27800	<100	22000			
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	@	@	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	@	@	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10	<10	@	@	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	<10	@	@	
Aromatics >EC12-EC16	<100 µg/kg	TM173	728	<100	<100			
Aromatics >EC16-EC21	<100 µg/kg	TM173	10900	<100	1340			
Aromatics >EC21-EC35	<100 µg/kg	TM173	29600	<100	6860			
Aromatics >EC35-EC44	<100 µg/kg	TM173	4890	<100	967			
Aromatics >EC40-EC44	<100 µg/kg	TM173	1260	<100	<100			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	46100	<100	9160			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	73900	<100	31100			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH237	BH237	BH237	BH237	BH238	BH238
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	21/01/2019	21/01/2019	21/01/2019	21/01/2019	18/01/2019	18/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190903	19190905	19190908	19190910	19190919	19190921
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	95	82	96	121	104	112
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @	<100 @	<100	193	1460 @	2210 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10	16.7	40.3 @	54.2 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	12.3 @	<10	43.3	81.8 @	101 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	<10 @	<10	41.1	188 @	681 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	<10 @	<10	38.9	612 @	554 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	<100	218	6660	285
Aliphatics >C16-C21	<100 µg/kg	TM173	397	<100	<100	172	16400	2180
Aliphatics >C21-C35	<100 µg/kg	TM173	10700	5130	2470	2920	33900	25600
Aliphatics >C35-C44	<100 µg/kg	TM173	1720	<100	780	1950	4350	4670
Total Aliphatics >C12-C44	<100 µg/kg	TM173	12800	5130	3250	5270	61300	32700
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10	<10	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10	<10	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	<10	27.8	125 @	454 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	<10	25.5	408 @	368 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	249	<100	<100	118	13900	3290
Aromatics >EC16-EC21	<100 µg/kg	TM173	4570	<100	296	<100	46900	17900
Aromatics >EC21-EC35	<100 µg/kg	TM173	20800	1840	373	414	63200	69800
Aromatics >EC35-EC44	<100 µg/kg	TM173	5860	<100	2440	<100	9200	14400
Aromatics >EC40-EC44	<100 µg/kg	TM173	2480	<100	1570	<100	2770	4070
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	31500	1840	3110	532	133000	105000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	44300	6990	6360	5990	196000	140000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH238	BH238	BH238	BH238	BH238	BH238
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190931	19190932	19190934	19190922	19190923	19190924
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	82	41.8	16.6	120	86.9	92
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @	<100 @	<100 @ M	1700 @	1050 @	897 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	63 @	42.2 @	40.3 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	106 @	71.7 @	83.2 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	469 @	292 @	215 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	449 @	268 @	247 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100 @	<100 @	1740 @	1330 @	489 @	451 @
Aliphatics >C16-C21	<100 µg/kg	TM173	<100 @	<100 @	2050 @	4700 @	5320 @	3890 @
Aliphatics >C21-C35	<100 µg/kg	TM173	<100 @	2000 @	12500 @	29100 @	29100 @	41300 @
Aliphatics >C35-C44	<100 µg/kg	TM173	<100 @	206 @	2640 @	3830 @	3860 @	9060 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100 @	2210 @	18900 @	38900 @	38800 @	54700 @
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	312 @	195 @	144 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	300 @	178 @	165 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100 @	<100 @	<100 @	3030 @	4760 @	1930 @
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100 @	<100 @	<100 @	25500 @	32300 @	14100 @
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100 @	907 @	<100 @	94600 @	108000 @	53200 @
Aromatics >EC35-EC44	<100 µg/kg	TM173	1430 @	<100 @	<100 @	17200 @	22400 @	10400 @
Aromatics >EC40-EC44	<100 µg/kg	TM173	1080 @	<100 @	<100 @	4400 @	8520 @	2860 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1430 @	907 @	<100 @	140000 @	167000 @	79600 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1430 @	3110 @	18900 @	181000 @	207000 @	135000 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH230	BH230	BH230	BH230	BH230	BH230
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190837	19190838	19190839	19190848	19190850	19190852
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	111 2	110 2	111 2	113 2	116 2	110 2
Toluene-d8**	%	TM116	98.2 2	96 2	95.5 2	94.4 2	101 2	101 2
4-Bromofluorobenzene**	%	TM116	87.1 2	93.1 2	92.6 2	97.5 2	102 2	81.1 2
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 2 M	<200 2 M	<200 2 M	<200 2 #	<200 2 M	<200 2 M
Benzene	<9 µg/kg	TM116	<180 2 M	<180 2 M	<180 2 M	<180 2 #	<180 2 M	<180 2 M
Toluene	<7 µg/kg	TM116	<140 2 M	<140 2 M	<140 2 M	<140 2 #	<140 2 M	<140 2 M
Ethylbenzene	<4 µg/kg	TM116	<80 2 M	<80 2 M	<80 2 M	<80 2 #	<80 2 M	<80 2 M
p/m-Xylene	<10 µg/kg	TM116	<200 2 #	<200 2 #	<200 2 #	<200 2 #	<200 2 #	<200 2 #
o-Xylene	<10 µg/kg	TM116	<200 2 M	<200 2 M	<200 2 M	<200 2 #	<200 2 M	<200 2 M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 2	<0.4 2	<0.4 2	<0.4 2	<0.4 2	<0.4 2
Sum of BTEX	<40 µg/kg	TM116	<800 2	<800 2	<800 2	<800 2	<800 2	<800 2



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH231	BH231	BH231	BH231	BH231	BH231
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	1.00 - 2.00	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190855	19190857	19190866	19190869	19190872	19190858
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	103 @	116 @	110 @	110 @	109 @	119 @
Toluene-d8**	%	TM116	99.6 @	99.8 @	89.1 @	91.9 @	94.5 @	101 @
4-Bromofluorobenzene**	%	TM116	97.1 @	91.5 @	92.7 @	101 @	81.1 @	97.6 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Benzene	<9 µg/kg	TM116	<180 @ M	<180 @ M	<180 @ M	<180 @ M	<180 @ M	<180 @ M
Toluene	<7 µg/kg	TM116	<140 @ M	<140 @ M	<140 @ M	<140 @ M	<140 @ M	<140 @ M
Ethylbenzene	<4 µg/kg	TM116	<80 @ M	<80 @ M	<80 @ M	<80 @ M	<80 @ M	<80 @ M
p/m-Xylene	<10 µg/kg	TM116	<200 @ #	<200 @ #	<200 @ #	<200 @ #	<200 @ #	<200 @ #
o-Xylene	<10 µg/kg	TM116	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	<800 @	<800 @	<800 @	<800 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH231	BH231	BH231	BH231	BH231	BH231	BH236
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
		Depth (m)	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50	
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	21/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190859	19190860	19190861	19190862	19190865	19190875	19190875
		AGS Reference							
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM116	108 @	119 @	116 @	118 @	105 @	107 @	
Toluene-d8**	%	TM116	100 @	101 @	97.6 @	99.9 @	99.7 @	99.9 @	
4-Bromofluorobenzene**	%	TM116	96.9 @	95.3 @	84 @	96.9 @	93 @	98.1 @	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<200 @ M	<10 @ M	<200 @ M	<200 @ M	<200 @ M	
Benzene	<9 µg/kg	TM116	<180 @ M	<180 @ M	<9 @ M	<180 @ M	<180 @ M	<180 @ M	
Toluene	<7 µg/kg	TM116	<140 @ M	<140 @ M	<7 @ M	<140 @ M	<140 @ M	<140 @ M	
Ethylbenzene	<4 µg/kg	TM116	<80 @ M	<80 @ M	<4 @ M	<80 @ M	<80 @ M	<80 @ M	
p/m-Xylene	<10 µg/kg	TM116	<200 @ #	<200 @ #	<10 @ #	<200 @ #	<200 @ #	<200 @ #	
o-Xylene	<10 µg/kg	TM116	<200 @ M	<200 @ M	<10 @ M	<200 @ M	<200 @ M	<200 @ M	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	<0.02 @	<0.4 @	<0.4 @	<0.4 @	
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	<40 @	<800 @	<800 @	<800 @	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH236	BH236	BH236	BH236	BH237	BH237
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190880	19190881	19190884	19190885	19190893	19190894
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	109	112	115	117	106	120
Toluene-d8**	%	TM116	93.9	94.8	99.8	100	95.2	105
4-Bromofluorobenzene**	%	TM116	91.5	71.4	94.9	102	96.8	101
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<10	<10	<200	<200	<200
Benzene	<9 µg/kg	TM116	<180	<9	<9	<180	<180	<180
Toluene	<7 µg/kg	TM116	<140	<7	<7	<140	<140	<140
Ethylbenzene	<4 µg/kg	TM116	<80	<4	<4	<80	<80	<80
p/m-Xylene	<10 µg/kg	TM116	<200	<10	<10	<200	<200	<200
o-Xylene	<10 µg/kg	TM116	<200	<10	<10	<200	<200	<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.02	<0.02	<0.4	<0.4	<0.4
Sum of BTEX	<40 µg/kg	TM116	<800	<40	<40	<800	<800	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH237	BH237	BH237	BH237	BH237	BH237	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH237	BH237	BH237	BH237	BH237	BH237	
M	mCERTS accredited.		1.00 - 2.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
diss.filt	Dissolved / filtered sample.		21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	
tot.unfilt	Total / unfiltered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	
*	Subcontracted - refer to subcontractor report for accreditation status.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.		19190896	19190914	19190916	19190898	19190899	19190901	
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%		TM116	110	109	111		110	107	110
Toluene-d8**	%	TM116	99	104	97.1	@	104	92.1	95.8
4-Bromofluorobenzene**	%	TM116	93.3	103	85.6	@	98.1	89	96.8
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	@ M	<200	<200	<200
Benzene	<9 µg/kg	TM116	<180	<180	<180	@ M	<180	<180	<180
Toluene	<7 µg/kg	TM116	<140	<140	<140	@ M	<140	<140	<140
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	@ M	<80	<80	<80
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	@ #	<200	<200	<200
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	@ M	<200	<200	<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	@	<0.4	<0.4	<0.4
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	@	<800	<800	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH237	BH237	BH237	BH237	BH238	BH238	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	1.00 - 2.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		21/01/2019	21/01/2019	21/01/2019	21/01/2019	18/01/2019	18/01/2019	
diss.filt	Dissolved / filtered sample.		23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	
tot.unfilt	Total / unfiltered sample.		190124-133	190124-133	190124-133	190124-133	190124-133	190124-133	
*	Subcontracted - refer to subcontractor report for accreditation status.		19190903	19190905	19190908	19190910	19190919	19190921	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%		TM116	107 @	107 @	110	112	120 @	109 @
Toluene-d8**	%	TM116	99.5 @	98.6 @	89.3	95.8	98.2 @	99.4 @	
4-Bromofluorobenzene**	%	TM116	98.3 @	97.9 @	99	105	81.7 @	97.7 @	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<200 @ #	<200 #	<200 M	<10 @ M	<200 @ M	
Benzene	<9 µg/kg	TM116	<180 @ M	<180 @ #	<180 #	<180 M	<9 @ M	<180 @ M	
Toluene	<7 µg/kg	TM116	<140 @ M	<140 @ #	<140 #	<140 M	<7 @ M	<140 @ M	
Ethylbenzene	<4 µg/kg	TM116	<80 @ M	<80 @ #	<80 #	<80 M	<4 @ M	<80 @ M	
p/m-Xylene	<10 µg/kg	TM116	<200 @ #	<200 @ #	<200 #	<200 #	<10 @ #	<200 @ #	
o-Xylene	<10 µg/kg	TM116	<200 @ M	<200 @ #	<200 #	<200 M	<10 @ M	<200 @ M	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	<0.4	<0.4	<0.02 @	<0.4 @	
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	<800	<800	<40 @	<800 @	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH238	BH238	BH238	BH238	BH238	BH238
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	12.00 - 13.00	14.00 - 15.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		Date Received	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
		SDG Ref	190124-133	190124-133	190124-133	190124-133	190124-133	190124-133
		Lab Sample No.(s)	19190931	19190932	19190934	19190922	19190923	19190924
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	112 @	111 2	126 @	108 @	123 @	125 @
Toluene-d8**	%	TM116	98 @	90.8 2	92 @	99.6 @	101 @	100 @
4-Bromofluorobenzene**	%	TM116	93.2 @	76.4 2	71.3 @	94.2 @	96.6 @	97.9 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<200 2 M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Benzene	<9 µg/kg	TM116	<180 @ M	<180 2 M	<180 @ M	<180 @ M	<180 @ M	<180 @ M
Toluene	<7 µg/kg	TM116	<140 @ M	<140 2 M	<140 @ M	<140 @ M	<140 @ M	<140 @ M
Ethylbenzene	<4 µg/kg	TM116	<80 @ M	<80 2 M	<80 @ M	<80 @ M	<80 @ M	<80 @ M
p/m-Xylene	<10 µg/kg	TM116	<200 @ #	<200 2 #	<200 @ #	<200 @ #	<200 @ #	<200 @ #
o-Xylene	<10 µg/kg	TM116	<200 @ M	<200 2 M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 2	<0.4 @	<0.4 @	<0.4 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 2	<800 @	<800 @	<800 @	<800 @



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
04/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH230 NS Z 14.00 - 15.00 SOLID 16/01/2019 00:00:00 26/01/2019 13:29:11 190124-133 19,190,852 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH230 NS Z 16.00 - 17.00 SOLID 16/01/2019 00:00:00 26/01/2019 13:14:07 190124-133 19,146,735 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH230 NS Z 2.00 - 3.00 SOLID 16/01/2019 00:00:00 26/01/2019 13:23:33 190124-133 19,190,840 TM048	04/02/19	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH230 NS Z 3.00 - 4.00 SOLID 16/01/2019 00:00:00 26/01/2019 13:46:00 190124-133 19,190,841 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH230 NS Z 4.00 - 5.00 SOLID 16/01/2019 00:00:00 26/01/2019 13:06:34 190124-133 19,190,842 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH230 NS Z 6.00 - 7.00 SOLID 16/01/2019 00:00:00 26/01/2019 12:57:56 190124-133 19,190,844 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH230 NS Z 9.00 - 10.00 SOLID 16/01/2019 00:00:00 26/01/2019 14:14:56 190124-133 19,190,847 TM048	04/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 0.00 - 0.50 SOLID 17/01/2019 00:00:00 27/01/2019 12:44:27 190124-133 19,190,855 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 1.00 - 2.00 SOLID 17/01/2019 00:00:00 27/01/2019 11:10:09 190124-133 19,190,857 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 10.00 - 11.00 SOLID 17/01/2019 00:00:00 26/01/2019 15:45:47 190124-133 19,190,866 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 12.00 - 13.00 SOLID 17/01/2019 00:00:00 26/01/2019 13:10:57 190124-133 19,190,869 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 14.00 - 15.00 SOLID 17/01/2019 00:00:00 26/01/2019 13:59:34 190124-133 19,190,872 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 2.00 - 3.00 SOLID 17/01/2019 00:00:00 27/01/2019 13:43:33 190124-133 19,190,858 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 3.00 - 4.00 SOLID 17/01/2019 00:00:00 30/01/2019 15:29:44 190124-133 19,190,859 TM048	04/02/19	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 4.00 - 5.00 SOLID 17/01/2019 00:00:00 27/01/2019 11:08:51 190124-133 19,190,860 TM048	04/02/19	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 5.00 - 6.00 SOLID 17/01/2019 00:00:00 27/01/2019 11:46:25 190124-133 19,190,861 TM048	04/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 6.00 - 7.00 SOLID 17/01/2019 00:00:00 27/01/2019 11:47:31 190124-133 19,190,862 TM048	04/02/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH231 NS Z 9.00 - 10.00 SOLID 17/01/2019 00:00:00 26/01/2019 15:47:09 190124-133 19,190,865 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 0.00 - 0.50 SOLID 21/01/2019 00:00:00 26/01/2019 13:51:42 190124-133 19,190,875 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 0.00 - 0.50 SOLID 21/01/2019 00:00:00 26/01/2019 13:59:47 190124-133 19,190,876 TM048	04/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 0.50 - 1.00 SOLID 21/01/2019 00:00:00 26/01/2019 14:22:10 190124-133 19,190,877 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 1.00 - 2.00 SOLID 21/01/2019 00:00:00 30/01/2019 15:31:41 190124-133 19,190,889 TM048	04/02/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 15.00 - 16.00 SOLID 21/01/2019 00:00:00 27/01/2019 11:42:49 190124-133 19,190,891 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 2.00 - 3.00 SOLID 21/01/2019 00:00:00 26/01/2019 15:08:05 190124-133 19,190,878 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 3.00 - 4.00 SOLID 21/01/2019 00:00:00 26/01/2019 14:26:53 190124-133 19,190,879 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 3.00 - 4.00 SOLID 21/01/2019 00:00:00 27/01/2019 13:00:42 190124-133 19,190,880 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 4.00 - 5.00 SOLID 21/01/2019 00:00:00 27/01/2019 12:59:02 190124-133 19,190,881 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 8.00 - 9.00 SOLID 21/01/2019 00:00:00 27/01/2019 14:31:38 190124-133 19,190,884 TM048	04/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH236 NS Z 9.00 - 10.00 SOLID 21/01/2019 00:00:00 27/01/2019 14:38:07 190124-133 19,190,885 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 0.00 - 0.50 SOLID 21/01/2019 00:00:00 29/01/2019 14:38:20 190124-133 19,190,893 TM048	04/02/19	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 0.50 - 1.00 SOLID 21/01/2019 00:00:00 26/01/2019 13:18:03 190124-133 19,190,894 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 0.50 - 2.00 SOLID 21/01/2019 00:00:00 26/01/2019 13:21:05 190124-133 19,190,896 TM048	04/02/19	Andrzej Fernecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 1.00 - 2.00 SOLID 21/01/2019 00:00:00 26/01/2019 14:13:13 190124-133 19,190,914 TM048	04/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 14.00 - 15.00 SOLID 21/01/2019 00:00:00 27/01/2019 12:57:45 190124-133 19,190,916 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 2.00 - 3.00 SOLID 21/01/2019 00:00:00 26/01/2019 15:43:46 190124-133 19,190,898 TM048	04/02/19	Andrzej Fernecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 3.00 - 4.00 SOLID 21/01/2019 00:00:00 26/01/2019 14:23:09 190124-133 19,190,899 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 4.00 - 5.00 SOLID 21/01/2019 00:00:00 26/01/2019 14:26:36 190124-133 19,190,901 TM048	04/02/19	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 4.00 - 5.00 SOLID 21/01/2019 00:00:00 26/01/2019 13:09:36 190124-133 19,190,903 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 5.00 - 6.00 SOLID 21/01/2019 00:00:00 26/01/2019 13:47:42 190124-133 19,190,905 TM048	04/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 6.00 - 7.00 SOLID 21/01/2019 00:00:00 26/01/2019 13:45:25 190124-133 19,190,908 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH237 NS Z 8.00 - 9.00 SOLID 21/01/2019 00:00:00 26/01/2019 14:24:48 190124-133 19,190,910 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 0.00 - 0.50 SOLID 18/01/2019 00:00:00 29/01/2019 15:06:13 190124-133 19,190,919 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 1.00 - 2.00 SOLID 18/01/2019 00:00:00 27/01/2019 14:28:10 190124-133 19,190,921 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 1.00 - 2.00 SOLID 18/01/2019 00:00:00 26/01/2019 14:28:45 190124-133 19,190,931 TM048	04/02/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 11.00 - 12.00 SOLID 18/01/2019 00:00:00 26/01/2019 13:07:58 190124-133 19,190,932 TM048	04/02/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 14.00 - 15.00 SOLID 18/01/2019 00:00:00 26/01/2019 13:49:03 190124-133 19,190,934 TM048	04/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 2.00 - 3.00 SOLID 18/01/2019 00:00:00 27/01/2019 12:42:13 190124-133 19,190,922 TM048	04/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 3.00 - 4.00 SOLID 18/01/2019 00:00:00 27/01/2019 13:46:18 190124-133 19,190,923 TM048	4/02/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 4.00 - 5.00 SOLID 18/01/2019 00:00:00 27/01/2019 13:44:57 190124-133 19,190,924 TM048	04/02/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 5.00 - 6.00 SOLID 18/01/2019 00:00:00 30/01/2019 15:28:10 190124-133 19,190,925 TM048	04/02/19	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 6.00 - 7.00 SOLID 18/01/2019 00:00:00 27/01/2019 11:11:54 190124-133 19,190,926 TM048	04/02/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH238 NS Z 9.00 - 10.00 SOLID 18/01/2019 00:00:00 29/01/2019 14:49:43 190124-133 19,190,929 TM048	04/02/19	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.16
Dry Matter Content (%)	94.2

Case	
SDG	190124-133
Lab Sample Number(s)	19146735
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.784
Loss on Ignition (%)	1.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	16.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.52
ANC to pH 6 (mol/kg)	0.183
ANC to pH 4 (mol/kg)	1.17

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000795	<0.0005	0.00795	<0.005	0.5	2	25
Barium	0.0488	<0.0002	0.488	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0246	<0.003	0.246	<0.03	0.5	10	30
Nickel	0.000906	<0.0004	0.00906	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0023	<0.001	0.023	<0.01	0.06	0.7	5
Selenium	0.029	<0.001	0.29	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	178	<2	1780	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	50.6	<2	506	<20	1000	20000	50000
Total Dissolved Solids	462	<5	4620	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.53	<3	35.3	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.34
Conductivity (µS/cm)	634
Temperature (°C)	18.90
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.095	Natural Moisture Content (%)	6.16
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	94.2
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19146735
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.784
Loss on Ignition (%)	1.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	16.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.52
ANC to pH 6 (mol/kg)	0.183
ANC to pH 4 (mol/kg)	1.17

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.34
Conductivity (µS/cm)	634
Temperature (°C)	18.90
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.81
Dry Matter Content (%)	91.9

Case	
SDG	190124-133
Lab Sample Number(s)	19190837
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.710
Loss on Ignition (%)	3.40
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.5
PAH Sum of 17 (mg/kg)	24.8
pH (pH Units)	8.19
ANC to pH 6 (mol/kg)	0.0542
ANC to pH 4 (mol/kg)	0.237

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0032	<0.0005	0.032	<0.005	0.5	2	25
Barium	0.0144	<0.0002	0.144	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00305	<0.0003	0.0305	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0137	<0.003	0.137	<0.03	0.5	10	30
Nickel	0.000898	<0.0004	0.00898	<0.004	0.4	10	40
Lead	0.000645	<0.0002	0.00645	<0.002	0.5	10	50
Antimony	0.00224	<0.001	0.0224	<0.01	0.06	0.7	5
Selenium	0.00454	<0.001	0.0454	<0.01	0.1	0.5	7
Zinc	0.00273	<0.001	0.0273	<0.01	4	50	200
Chloride	11.2	<2	112	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	33.5	<2	335	<20	1000	20000	50000
Total Dissolved Solids	129	<5	1290	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.99	<3	59.9	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	169
Temperature (°C)	19.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.81
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.9
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190837
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.710
Loss on Ignition (%)	3.40
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.5
PAH Sum of 17 (mg/kg)	24.8
pH (pH Units)	8.19
ANC to pH 6 (mol/kg)	0.0542
ANC to pH 4 (mol/kg)	0.237

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	169
Temperature (°C)	19.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190838
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.11
Loss on Ignition (%)	3.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	61.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0497
ANC to pH 4 (mol/kg)	0.155

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00109	<0.0005	0.0109	<0.005	0.5	2	25
Barium	0.0114	<0.0002	0.114	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00264	<0.0003	0.0264	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0219	<0.003	0.219	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00179	<0.001	0.0179	<0.01	0.06	0.7	5
Selenium	0.0013	<0.001	0.013	<0.01	0.1	0.5	7
Zinc	0.00219	<0.001	0.0219	<0.01	4	50	200
Chloride	17.2	<2	172	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	82.2	<2	822	<20	1000	20000	50000
Total Dissolved Solids	229	<5	2290	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.2	<3	52	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.61
Conductivity (µS/cm)	309
Temperature (°C)	18.90
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190838
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.11
Loss on Ignition (%)	3.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	61.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0497
ANC to pH 4 (mol/kg)	0.155

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.61
Conductivity (µS/cm)	309
Temperature (°C)	18.90
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190839
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.699
Loss on Ignition (%)	2.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	42.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0473
ANC to pH 4 (mol/kg)	0.119

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00237	<0.0005	0.0237	<0.005	0.5	2	25
Barium	0.00717	<0.0002	0.0717	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00221	<0.0003	0.0221	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0114	<0.003	0.114	<0.03	0.5	10	30
Nickel	0.000786	<0.0004	0.00786	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00204	<0.001	0.0204	<0.01	0.06	0.7	5
Selenium	0.00106	<0.001	0.0106	<0.01	0.1	0.5	7
Zinc	0.00156	<0.001	0.0156	<0.01	4	50	200
Chloride	4.8	<2	48	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	58	<2	580	<20	1000	20000	50000
Total Dissolved Solids	161	<5	1610	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.05	<3	60.5	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.57
Conductivity (µS/cm)	210
Temperature (°C)	19.10
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190839
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.699
Loss on Ignition (%)	2.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	42.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0473
ANC to pH 4 (mol/kg)	0.119

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.57
Conductivity (µS/cm)	210
Temperature (°C)	19.10
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190840
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.29
Loss on Ignition (%)	4.94
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.75
ANC to pH 6 (mol/kg)	0.0488
ANC to pH 4 (mol/kg)	0.276

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00351	<0.0005	0.0351	<0.005	0.5	2	25
Barium	0.00684	<0.0002	0.0684	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0235	<0.003	0.235	<0.03	0.5	10	30
Nickel	0.000908	<0.0004	0.00908	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00245	<0.001	0.0245	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00401	<0.001	0.0401	<0.01	4	50	200
Chloride	22.6	<2	226	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	55.1	<2	551	<20	1000	20000	50000
Total Dissolved Solids	212	<5	2120	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.83	<3	88.3	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.77
Conductivity (µS/cm)	279
Temperature (°C)	19.20
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190840
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.29
Loss on Ignition (%)	4.94
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.75
ANC to pH 6 (mol/kg)	0.0488
ANC to pH 4 (mol/kg)	0.276

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.77
Conductivity (µS/cm)	279
Temperature (°C)	19.20
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190841
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.77
Loss on Ignition (%)	3.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	36.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.39
ANC to pH 6 (mol/kg)	0.0637
ANC to pH 4 (mol/kg)	0.425

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00608	<0.0005	0.0608	<0.005	0.5	2	25
Barium	0.00432	<0.0002	0.0432	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.029	<0.003	0.29	<0.03	0.5	10	30
Nickel	0.000798	<0.0004	0.00798	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00327	<0.001	0.0327	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00237	<0.001	0.0237	<0.01	4	50	200
Chloride	17.9	<2	179	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	22.8	<2	228	<20	1000	20000	50000
Total Dissolved Solids	150	<5	1500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.5	<3	105	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.84
Conductivity (µS/cm)	193
Temperature (°C)	19.00
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190841
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.77
Loss on Ignition (%)	3.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	36.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.39
ANC to pH 6 (mol/kg)	0.0637
ANC to pH 4 (mol/kg)	0.425

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.84
Conductivity (µS/cm)	193
Temperature (°C)	19.00
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190842
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.591
Loss on Ignition (%)	4.81
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.61
ANC to pH 6 (mol/kg)	0.0530
ANC to pH 4 (mol/kg)	0.278

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0042	<0.0005	0.042	<0.005	0.5	2	25
Barium	0.0088	<0.0002	0.088	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0212	<0.003	0.212	<0.03	0.5	10	30
Nickel	0.00126	<0.0004	0.0126	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00232	<0.001	0.0232	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00285	<0.001	0.0285	<0.01	4	50	200
Chloride	14.3	<2	143	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	135	<2	1350	<20	1000	20000	50000
Total Dissolved Solids	308	<5	3080	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.38	<3	73.8	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.02
Conductivity (µS/cm)	435
Temperature (°C)	19.10
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190842
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.591
Loss on Ignition (%)	4.81
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.61
ANC to pH 6 (mol/kg)	0.0530
ANC to pH 4 (mol/kg)	0.278

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.02
Conductivity (µS/cm)	435
Temperature (°C)	19.10
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190844
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.72
Loss on Ignition (%)	1.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	9.64
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.82
ANC to pH 6 (mol/kg)	0.104
ANC to pH 4 (mol/kg)	0.539

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00174	<0.0005	0.0174	<0.005	0.5	2	25
Barium	0.00758	<0.0002	0.0758	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000672	<0.0003	0.00672	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0112	<0.003	0.112	<0.03	0.5	10	30
Nickel	0.000915	<0.0004	0.00915	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00301	<0.001	0.0301	<0.01	0.06	0.7	5
Selenium	0.00144	<0.001	0.0144	<0.01	0.1	0.5	7
Zinc	0.00257	<0.001	0.0257	<0.01	4	50	200
Chloride	13.1	<2	131	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	59.5	<2	595	<20	1000	20000	50000
Total Dissolved Solids	202	<5	2020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.28	<3	42.8	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.77
Conductivity (µS/cm)	269
Temperature (°C)	18.90
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190844
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.72
Loss on Ignition (%)	1.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	9.64
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.82
ANC to pH 6 (mol/kg)	0.104
ANC to pH 4 (mol/kg)	0.539

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.77
Conductivity (µS/cm)	269
Temperature (°C)	18.90
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.65
Dry Matter Content (%)	91.2

Case	
SDG	190124-133
Lab Sample Number(s)	19190847
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.369
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.45
ANC to pH 6 (mol/kg)	0.0701
ANC to pH 4 (mol/kg)	0.192

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00131	<0.0005	0.0131	<0.005	0.5	2	25
Barium	0.00305	<0.0002	0.0305	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00163	<0.001	0.0163	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	56.2	<2	562	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	9.1	<2	91	<20	1000	20000	50000
Total Dissolved Solids	190	<5	1900	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	9.26
Conductivity (µS/cm)	258
Temperature (°C)	19.10
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.65
Dry Matter Content (%)	91.2

Case	
SDG	190124-133
Lab Sample Number(s)	19190847
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.369
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.45
ANC to pH 6 (mol/kg)	0.0701
ANC to pH 4 (mol/kg)	0.192

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	9.26
Conductivity (µS/cm)	258
Temperature (°C)	19.10
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.89
Dry Matter Content (%)	91.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190848
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.571
Loss on Ignition (%)	1.04
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.36
ANC to pH 6 (mol/kg)	0.124
ANC to pH 4 (mol/kg)	0.345

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00109	<0.0005	0.0109	<0.005	0.5	2	25
Barium	0.00266	<0.0002	0.0266	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00346	<0.001	0.0346	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	72.3	<2	723	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10.5	<2	105	<20	1000	20000	50000
Total Dissolved Solids	232	<5	2320	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.16	<3	31.6	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	9.46
Conductivity (µS/cm)	302
Temperature (°C)	19.00
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.89
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190848
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.571
Loss on Ignition (%)	1.04
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.36
ANC to pH 6 (mol/kg)	0.124
ANC to pH 4 (mol/kg)	0.345

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	9.46
Conductivity (µS/cm)	302
Temperature (°C)	19.00
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190850
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.24
Loss on Ignition (%)	1.74
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.06
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.06
ANC to pH 6 (mol/kg)	0.0612
ANC to pH 4 (mol/kg)	0.148

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00146	<0.0005	0.0146	<0.005	0.5	2	25
Barium	0.0844	<0.0002	0.844	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00746	<0.003	0.0746	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00231	<0.001	0.0231	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	224	<4	2240	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	35.7	<2	357	<20	1000	20000	50000
Total Dissolved Solids	602	<5	6020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.18	<3	31.8	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.87
Conductivity (µS/cm)	816
Temperature (°C)	18.90
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190850
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.24
Loss on Ignition (%)	1.74
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.06
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.06
ANC to pH 6 (mol/kg)	0.0612
ANC to pH 4 (mol/kg)	0.148

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.87
Conductivity (µS/cm)	816
Temperature (°C)	18.90
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.0
Dry Matter Content (%)	90.1

Case	
SDG	190124-133
Lab Sample Number(s)	19190852
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.630
Loss on Ignition (%)	2.13
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.267
ANC to pH 4 (mol/kg)	1.37

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000683	<0.0005	0.00683	<0.005	0.5	2	25
Barium	0.0547	<0.0002	0.547	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000115	<0.00001	0.000115	<0.0001	0.01	0.2	2
Molybdenum	0.0222	<0.003	0.222	<0.03	0.5	10	30
Nickel	0.000953	<0.0004	0.00953	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00245	<0.001	0.0245	<0.01	0.06	0.7	5
Selenium	0.031	<0.001	0.31	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	207	<4	2070	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.2	<2	542	<20	1000	20000	50000
Total Dissolved Solids	553	<5	5530	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.43	<3	34.3	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	770
Temperature (°C)	19.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.0
Dry Matter Content (%)	90.1

Case	
SDG	190124-133
Lab Sample Number(s)	19190852
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH230
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.630
Loss on Ignition (%)	2.13
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.267
ANC to pH 4 (mol/kg)	1.37

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	770
Temperature (°C)	19.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.41
Dry Matter Content (%)	93.1

Case	
SDG	190124-133
Lab Sample Number(s)	19190855
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.54
Loss on Ignition (%)	3.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.5
PAH Sum of 17 (mg/kg)	71.1
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.0636
ANC to pH 4 (mol/kg)	0.176

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00326	<0.0005	0.0326	<0.005	0.5	2	25
Barium	0.0272	<0.0002	0.272	<0.002	20	100	300
Cadmium	0.000663	<0.00008	0.00663	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0029	<0.0003	0.029	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0147	<0.003	0.147	<0.03	0.5	10	30
Nickel	0.000486	<0.0004	0.00486	<0.004	0.4	10	40
Lead	0.00108	<0.0002	0.0108	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0288	<0.001	0.288	<0.01	4	50	200
Chloride	24.9	<2	249	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	17.9	<2	179	<20	1000	20000	50000
Total Dissolved Solids	157	<5	1570	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.11	<3	31.1	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.85
Conductivity (µS/cm)	208
Temperature (°C)	17.70
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.41
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.1
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190855
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.54
Loss on Ignition (%)	3.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.5
PAH Sum of 17 (mg/kg)	71.1
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.0636
ANC to pH 4 (mol/kg)	0.176

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.85
Conductivity (µS/cm)	208
Temperature (°C)	17.70
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190857
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.324
Loss on Ignition (%)	5.45
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	38.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.68
ANC to pH 6 (mol/kg)	0.0424
ANC to pH 4 (mol/kg)	0.148

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00282	<0.0005	0.0282	<0.005	0.5	2	25
Barium	0.0132	<0.0002	0.132	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00204	<0.0003	0.0204	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0262	<0.003	0.262	<0.03	0.5	10	30
Nickel	0.00206	<0.0004	0.0206	<0.004	0.4	10	40
Lead	0.00038	<0.0002	0.0038	<0.002	0.5	10	50
Antimony	0.00891	<0.001	0.0891	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0145	<0.001	0.145	<0.01	4	50	200
Chloride	14.2	<2	142	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	69.5	<2	695	<20	1000	20000	50000
Total Dissolved Solids	236	<5	2360	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.55	<3	95.5	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.62
Conductivity (µS/cm)	305
Temperature (°C)	17.30
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190857
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.324
Loss on Ignition (%)	5.45
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	38.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.68
ANC to pH 6 (mol/kg)	0.0424
ANC to pH 4 (mol/kg)	0.148

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.62
Conductivity (µS/cm)	305
Temperature (°C)	17.30
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190858
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.08
Loss on Ignition (%)	4.91
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	141
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0591
ANC to pH 4 (mol/kg)	0.379

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00428	<0.0005	0.0428	<0.005	0.5	2	25
Barium	0.00601	<0.0002	0.0601	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0249	<0.003	0.249	<0.03	0.5	10	30
Nickel	0.000922	<0.0004	0.00922	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00246	<0.001	0.0246	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0032	<0.001	0.032	<0.01	4	50	200
Chloride	15.2	<2	152	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	26.1	<2	261	<20	1000	20000	50000
Total Dissolved Solids	165	<5	1650	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.05	<0.016	0.5	<0.16	1	-	-
Dissolved Organic Carbon	11.1	<3	111	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.96
Conductivity (µS/cm)	218
Temperature (°C)	17.80
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.115	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190858
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.08
Loss on Ignition (%)	4.91
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	141
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0591
ANC to pH 4 (mol/kg)	0.379

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.96
Conductivity (µS/cm)	218
Temperature (°C)	17.80
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190859
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.82
Loss on Ignition (%)	6.44
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.30
ANC to pH 6 (mol/kg)	0.0672
ANC to pH 4 (mol/kg)	0.506

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00566	<0.0005	0.0566	<0.005	0.5	2	25
Barium	0.00687	<0.0002	0.0687	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0266	<0.003	0.266	<0.03	0.5	10	30
Nickel	0.00109	<0.0004	0.0109	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00216	<0.001	0.0216	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	17.7	<2	177	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36.8	<2	368	<20	1000	20000	50000
Total Dissolved Solids	206	<5	2060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.2	<3	112	<30	500	800	1000

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	7.74
Conductivity (µS/cm)	276
Temperature (°C)	16.50
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.115	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190859
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.82
Loss on Ignition (%)	6.44
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.30
ANC to pH 6 (mol/kg)	0.0672
ANC to pH 4 (mol/kg)	0.506

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	7.74
Conductivity (µS/cm)	276
Temperature (°C)	16.50
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190860
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.42
Loss on Ignition (%)	4.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.82
ANC to pH 6 (mol/kg)	0.0516
ANC to pH 4 (mol/kg)	0.128

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00338	<0.0005	0.0338	<0.005	0.5	2	25
Barium	0.00775	<0.0002	0.0775	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00105	<0.0003	0.0105	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.023	<0.003	0.23	<0.03	0.5	10	30
Nickel	0.00143	<0.0004	0.0143	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00287	<0.001	0.0287	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00268	<0.001	0.0268	<0.01	4	50	200
Chloride	12.5	<2	125	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	90	<2	900	<20	1000	20000	50000
Total Dissolved Solids	282	<5	2820	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.71	<3	67.1	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.42
Conductivity (µS/cm)	382
Temperature (°C)	17.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190860
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.42
Loss on Ignition (%)	4.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.82
ANC to pH 6 (mol/kg)	0.0516
ANC to pH 4 (mol/kg)	0.128

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.42
Conductivity (µS/cm)	382
Temperature (°C)	17.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190861
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.357
Loss on Ignition (%)	1.68
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	40.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0494
ANC to pH 4 (mol/kg)	0.109

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00212	<0.0005	0.0212	<0.005	0.5	2	25
Barium	0.00848	<0.0002	0.0848	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00137	<0.0003	0.0137	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0186	<0.003	0.186	<0.03	0.5	10	30
Nickel	0.00149	<0.0004	0.0149	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00242	<0.001	0.0242	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00312	<0.001	0.0312	<0.01	4	50	200
Chloride	11.3	<2	113	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	95	<2	950	<20	1000	20000	50000
Total Dissolved Solids	270	<5	2700	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.72	<3	57.2	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.03
Conductivity (µS/cm)	367
Temperature (°C)	18.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190861
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.357
Loss on Ignition (%)	1.68
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	40.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0494
ANC to pH 4 (mol/kg)	0.109

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.03
Conductivity (µS/cm)	367
Temperature (°C)	18.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190862
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.10
Loss on Ignition (%)	6.49
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.03
ANC to pH 6 (mol/kg)	0.100
ANC to pH 4 (mol/kg)	0.373

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00591	<0.0005	0.0591	<0.005	0.5	2	25
Barium	0.00648	<0.0002	0.0648	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0266	<0.003	0.266	<0.03	0.5	10	30
Nickel	0.00102	<0.0004	0.0102	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00315	<0.001	0.0315	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00288	<0.001	0.0288	<0.01	4	50	200
Chloride	41.6	<2	416	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	9.1	<2	91	<20	1000	20000	50000
Total Dissolved Solids	204	<5	2040	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.88	<3	98.8	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.17
Conductivity (µS/cm)	271
Temperature (°C)	17.60
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190862
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.10
Loss on Ignition (%)	6.49
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.03
ANC to pH 6 (mol/kg)	0.100
ANC to pH 4 (mol/kg)	0.373

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.17
Conductivity (µS/cm)	271
Temperature (°C)	17.60
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190124-133
Lab Sample Number(s)	19190865
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.343
Loss on Ignition (%)	1.09
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.49
ANC to pH 6 (mol/kg)	0.0636
ANC to pH 4 (mol/kg)	0.137

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00122	<0.0005	0.0122	<0.005	0.5	2	25
Barium	0.00553	<0.0002	0.0553	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00209	<0.001	0.0209	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	39.9	<2	399	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	7.5	<2	75	<20	1000	20000	50000
Total Dissolved Solids	149	<5	1490	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.3	<3	33	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.74
Conductivity (µS/cm)	196
Temperature (°C)	17.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.93
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.8
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190865
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.343
Loss on Ignition (%)	1.09
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.49
ANC to pH 6 (mol/kg)	0.0636
ANC to pH 4 (mol/kg)	0.137

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.74
Conductivity (µS/cm)	196
Temperature (°C)	17.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.64
Dry Matter Content (%)	92.9

Case	
SDG	190124-133
Lab Sample Number(s)	19190866
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.46
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.50
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.31
ANC to pH 6 (mol/kg)	0.0997
ANC to pH 4 (mol/kg)	0.280

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0011	<0.0005	0.011	<0.005	0.5	2	25
Barium	0.00421	<0.0002	0.0421	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00311	<0.001	0.0311	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	53.5	<2	535	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	7.7	<2	77	<20	1000	20000	50000
Total Dissolved Solids	179	<5	1790	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.31	<3	33.1	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.72
Conductivity (µS/cm)	240
Temperature (°C)	19.00
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.64
Dry Matter Content (%)	92.9

Case	
SDG	190124-133
Lab Sample Number(s)	19190866
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.46
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.50
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.31
ANC to pH 6 (mol/kg)	0.0997
ANC to pH 4 (mol/kg)	0.280

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.72
Conductivity (µS/cm)	240
Temperature (°C)	19.00
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190869
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.782
Loss on Ignition (%)	1.26
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.41
ANC to pH 6 (mol/kg)	0.0875
ANC to pH 4 (mol/kg)	0.189

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00116	<0.0005	0.0116	<0.005	0.5	2	25
Barium	0.0156	<0.0002	0.156	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0016	<0.001	0.016	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	195	<2	1950	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	29.5	<2	295	<20	1000	20000	50000
Total Dissolved Solids	522	<5	5220	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.78
Conductivity (µS/cm)	718
Temperature (°C)	19.00
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190869
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.782
Loss on Ignition (%)	1.26
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.41
ANC to pH 6 (mol/kg)	0.0875
ANC to pH 4 (mol/kg)	0.189

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.78
Conductivity (µS/cm)	718
Temperature (°C)	19.00
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190872
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.730
Loss on Ignition (%)	1.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.45
ANC to pH 6 (mol/kg)	0.194
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000688	<0.0005	0.00688	<0.005	0.5	2	25
Barium	0.0591	<0.0002	0.591	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000645	<0.0003	0.00645	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0209	<0.003	0.209	<0.03	0.5	10	30
Nickel	0.0013	<0.0004	0.013	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00231	<0.001	0.0231	<0.01	0.06	0.7	5
Selenium	0.0281	<0.001	0.281	<0.01	0.1	0.5	7
Zinc	0.00111	<0.001	0.0111	<0.01	4	50	200
Chloride	196	<2	1960	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	58.6	<2	586	<20	1000	20000	50000
Total Dissolved Solids	530	<5	5300	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.64	<3	36.4	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.61
Conductivity (µS/cm)	730
Temperature (°C)	19.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190872
Sampled Date	17-Jan-2019
Customer Sample Ref.	BH231
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.730
Loss on Ignition (%)	1.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.45
ANC to pH 6 (mol/kg)	0.194
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.61
Conductivity (µS/cm)	730
Temperature (°C)	19.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190875
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.31
Loss on Ignition (%)	2.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	62.0
PAH Sum of 17 (mg/kg)	28.1
pH (pH Units)	10.76
ANC to pH 6 (mol/kg)	0.0743
ANC to pH 4 (mol/kg)	0.602

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0285	<0.0005	0.285	<0.005	0.5	2	25
Barium	0.00664	<0.0002	0.0664	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00525	<0.001	0.0525	<0.01	0.5	10	70
Copper	0.056	<0.0003	0.56	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0318	<0.003	0.318	<0.03	0.5	10	30
Nickel	0.00254	<0.0004	0.0254	<0.004	0.4	10	40
Lead	0.000784	<0.0002	0.00784	<0.002	0.5	10	50
Antimony	0.00628	<0.001	0.0628	<0.01	0.06	0.7	5
Selenium	0.00638	<0.001	0.0638	<0.01	0.1	0.5	7
Zinc	0.00312	<0.001	0.0312	<0.01	4	50	200
Chloride	62.4	<2	624	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	26.9	<2	269	<20	1000	20000	50000
Total Dissolved Solids	254	<5	2540	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.9	<3	109	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	10.37
Conductivity (µS/cm)	341
Temperature (°C)	19.10
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190875
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.31
Loss on Ignition (%)	2.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	62.0
PAH Sum of 17 (mg/kg)	28.1
pH (pH Units)	10.76
ANC to pH 6 (mol/kg)	0.0743
ANC to pH 4 (mol/kg)	0.602

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	10.37
Conductivity (µS/cm)	341
Temperature (°C)	19.10
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190876
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.620
Loss on Ignition (%)	5.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	325
PAH Sum of 17 (mg/kg)	12.4
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0525
ANC to pH 4 (mol/kg)	0.326

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00794	<0.0005	0.0794	<0.005	0.5	2	25
Barium	0.0253	<0.0002	0.253	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0021	<0.0003	0.021	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0527	<0.003	0.527	<0.03	0.5	10	30
Nickel	0.00151	<0.0004	0.0151	<0.004	0.4	10	40
Lead	0.00121	<0.0002	0.0121	<0.002	0.5	10	50
Antimony	0.00867	<0.001	0.0867	<0.01	0.06	0.7	5
Selenium	0.00107	<0.001	0.0107	<0.01	0.1	0.5	7
Zinc	0.00721	<0.001	0.0721	<0.01	4	50	200
Chloride	76.1	<2	761	<20	800	15000	25000
Fluoride	0.544	<0.5	5.44	<5	10	150	500
Sulphate (soluble)	82.9	<2	829	<20	1000	20000	50000
Total Dissolved Solids	375	<5	3750	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.39	<3	83.9	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.07
Conductivity (µS/cm)	511
Temperature (°C)	19.10
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190876
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.620
Loss on Ignition (%)	5.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	325
PAH Sum of 17 (mg/kg)	12.4
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0525
ANC to pH 4 (mol/kg)	0.326

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.07
Conductivity (µS/cm)	511
Temperature (°C)	19.10
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.119
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190877
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.26
Loss on Ignition (%)	5.85
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	188
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.54
ANC to pH 6 (mol/kg)	0.0447
ANC to pH 4 (mol/kg)	0.401

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00368	<0.0005	0.0368	<0.005	0.5	2	25
Barium	0.00784	<0.0002	0.0784	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0016	<0.0003	0.016	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.039	<0.003	0.39	<0.03	0.5	10	30
Nickel	0.00144	<0.0004	0.0144	<0.004	0.4	10	40
Lead	0.000532	<0.0002	0.00532	<0.002	0.5	10	50
Antimony	0.00415	<0.001	0.0415	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00121	<0.001	0.0121	<0.01	4	50	200
Chloride	24.3	<2	243	<20	800	15000	25000
Fluoride	0.52	<0.5	5.2	<5	10	150	500
Sulphate (soluble)	65.6	<2	656	<20	1000	20000	50000
Total Dissolved Solids	242	<5	2420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.6	<3	116	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.81
Conductivity (µS/cm)	322
Temperature (°C)	19.20
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.119	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190877
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.26
Loss on Ignition (%)	5.85
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	188
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.54
ANC to pH 6 (mol/kg)	0.0447
ANC to pH 4 (mol/kg)	0.401

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.81
Conductivity (µS/cm)	322
Temperature (°C)	19.20
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190878
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	6.38
Loss on Ignition (%)	5.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	129
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.65
ANC to pH 6 (mol/kg)	0.0675
ANC to pH 4 (mol/kg)	0.417

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00536	<0.0005	0.0536	<0.005	0.5	2	25
Barium	0.00611	<0.0002	0.0611	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0318	<0.003	0.318	<0.03	0.5	10	30
Nickel	0.00107	<0.0004	0.0107	<0.004	0.4	10	40
Lead	0.000228	<0.0002	0.00228	<0.002	0.5	10	50
Antimony	0.00271	<0.001	0.0271	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0011	<0.001	0.011	<0.01	4	50	200
Chloride	31.3	<2	313	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	26.8	<2	268	<20	1000	20000	50000
Total Dissolved Solids	196	<5	1960	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.9	<3	139	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	273
Temperature (°C)	19.00
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190878
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	6.38
Loss on Ignition (%)	5.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	129
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.65
ANC to pH 6 (mol/kg)	0.0675
ANC to pH 4 (mol/kg)	0.417

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	273
Temperature (°C)	19.00
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190879
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.44
Loss on Ignition (%)	6.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.45
ANC to pH 6 (mol/kg)	0.0527
ANC to pH 4 (mol/kg)	0.272

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00733	<0.0005	0.0733	<0.005	0.5	2	25
Barium	0.00588	<0.0002	0.0588	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0298	<0.003	0.298	<0.03	0.5	10	30
Nickel	0.00134	<0.0004	0.0134	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00175	<0.001	0.0175	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00151	<0.001	0.0151	<0.01	4	50	200
Chloride	24.8	<2	248	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.3	<2	403	<20	1000	20000	50000
Total Dissolved Solids	246	<5	2460	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.7	<3	107	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.13
Conductivity (µS/cm)	329
Temperature (°C)	19.10
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190879
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.44
Loss on Ignition (%)	6.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.45
ANC to pH 6 (mol/kg)	0.0527
ANC to pH 4 (mol/kg)	0.272

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.13
Conductivity (µS/cm)	329
Temperature (°C)	19.10
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.109
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190880
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.20
Loss on Ignition (%)	6.58
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.72
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.82
ANC to pH 6 (mol/kg)	0.0625
ANC to pH 4 (mol/kg)	0.232

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00668	<0.0005	0.0668	<0.005	0.5	2	25
Barium	0.00456	<0.0002	0.0456	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000352	<0.0003	0.00352	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0395	<0.003	0.395	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	0.00146	<0.0002	0.0146	<0.002	0.5	10	50
Antimony	0.00365	<0.001	0.0365	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00519	<0.001	0.0519	<0.01	4	50	200
Chloride	33.1	<2	331	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	6.9	<2	69	<20	1000	20000	50000
Total Dissolved Solids	227	<5	2270	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	12.2	<3	122	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.35
Conductivity (µS/cm)	288
Temperature (°C)	17.10
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.109
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190880
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.20
Loss on Ignition (%)	6.58
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.72
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.82
ANC to pH 6 (mol/kg)	0.0625
ANC to pH 4 (mol/kg)	0.232

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.35
Conductivity (µS/cm)	288
Temperature (°C)	17.10
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190881
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.362
Loss on Ignition (%)	3.72
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.00
ANC to pH 6 (mol/kg)	0.0604
ANC to pH 4 (mol/kg)	0.201

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00306	<0.0005	0.0306	<0.005	0.5	2	25
Barium	0.00496	<0.0002	0.0496	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0343	<0.003	0.343	<0.03	0.5	10	30
Nickel	0.00129	<0.0004	0.0129	<0.004	0.4	10	40
Lead	0.000344	<0.0002	0.00344	<0.002	0.5	10	50
Antimony	0.00379	<0.001	0.0379	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00171	<0.001	0.0171	<0.01	4	50	200
Chloride	21.3	<2	213	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	23	<2	230	<20	1000	20000	50000
Total Dissolved Solids	185	<5	1850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.3	<3	103	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	232
Temperature (°C)	17.00
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190881
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.362
Loss on Ignition (%)	3.72
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.00
ANC to pH 6 (mol/kg)	0.0604
ANC to pH 4 (mol/kg)	0.201

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	232
Temperature (°C)	17.00
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.0
Dry Matter Content (%)	90.1

Case	
SDG	190124-133
Lab Sample Number(s)	19190884
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.480
Loss on Ignition (%)	1.07
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.15
ANC to pH 6 (mol/kg)	0.120
ANC to pH 4 (mol/kg)	0.297

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0029	<0.0005	0.029	<0.005	0.5	2	25
Barium	0.00689	<0.0002	0.0689	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00367	<0.003	0.0367	<0.03	0.5	10	30
Nickel	0.00103	<0.0004	0.0103	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00261	<0.001	0.0261	<0.01	0.06	0.7	5
Selenium	0.0023	<0.001	0.023	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	26.9	<2	269	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	21.6	<2	216	<20	1000	20000	50000
Total Dissolved Solids	149	<5	1490	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.89
Conductivity (µS/cm)	197
Temperature (°C)	17.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.1
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190884
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.480
Loss on Ignition (%)	1.07
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.15
ANC to pH 6 (mol/kg)	0.120
ANC to pH 4 (mol/kg)	0.297

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.89
Conductivity (µS/cm)	197
Temperature (°C)	17.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.89
Dry Matter Content (%)	91.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190885
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.269
Loss on Ignition (%)	0.819
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.56
ANC to pH 6 (mol/kg)	0.128
ANC to pH 4 (mol/kg)	0.319

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0022	<0.0005	0.022	<0.005	0.5	2	25
Barium	0.00259	<0.0002	0.0259	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000404	<0.0004	0.00404	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00139	<0.001	0.0139	<0.01	0.06	0.7	5
Selenium	0.00126	<0.001	0.0126	<0.01	0.1	0.5	7
Zinc	0.00203	<0.001	0.0203	<0.01	4	50	200
Chloride	44.1	<2	441	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	7	<2	70	<20	1000	20000	50000
Total Dissolved Solids	161	<5	1610	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	9.20
Conductivity (µS/cm)	210
Temperature (°C)	17.00
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.89
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190885
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.269
Loss on Ignition (%)	0.819
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.56
ANC to pH 6 (mol/kg)	0.128
ANC to pH 4 (mol/kg)	0.319

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	9.20
Conductivity (µS/cm)	210
Temperature (°C)	17.00
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190889
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.566
Loss on Ignition (%)	1.78
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.72
ANC to pH 6 (mol/kg)	0.215
ANC to pH 4 (mol/kg)	1.19

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00127	<0.0005	0.0127	<0.005	0.5	2	25
Barium	0.09	<0.0002	0.9	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.01	<0.003	0.1	<0.03	0.5	10	30
Nickel	0.000564	<0.0004	0.00564	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.003	<0.001	0.03	<0.01	0.06	0.7	5
Selenium	0.0285	<0.001	0.285	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	193	<2	1930	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36.5	<2	365	<20	1000	20000	50000
Total Dissolved Solids	518	<5	5180	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.41	<3	34.1	<30	500	800	1000

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	725
Temperature (°C)	16.80
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190889
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.566
Loss on Ignition (%)	1.78
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.72
ANC to pH 6 (mol/kg)	0.215
ANC to pH 4 (mol/kg)	1.19

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	725
Temperature (°C)	16.80
Volume Leachant (Litres)	0.887

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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.84
Dry Matter Content (%)	93.6

Case	
SDG	190124-133
Lab Sample Number(s)	19190891
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.703
Loss on Ignition (%)	2.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.28
ANC to pH 6 (mol/kg)	0.160
ANC to pH 4 (mol/kg)	1.05

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000553	<0.0005	0.00553	<0.005	0.5	2	25
Barium	0.0721	<0.0002	0.721	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0223	<0.003	0.223	<0.03	0.5	10	30
Nickel	0.00132	<0.0004	0.0132	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0025	<0.001	0.025	<0.01	0.06	0.7	5
Selenium	0.0284	<0.001	0.284	<0.01	0.1	0.5	7
Zinc	0.00484	<0.001	0.0484	<0.01	4	50	200
Chloride	157	<2	1570	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.4	<2	374	<20	1000	20000	50000
Total Dissolved Solids	410	<5	4100	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.47	<3	34.7	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	550
Temperature (°C)	18.00
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.096	Natural Moisture Content (%)	6.84
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.6
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190891
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH236
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.703
Loss on Ignition (%)	2.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.28
ANC to pH 6 (mol/kg)	0.160
ANC to pH 4 (mol/kg)	1.05

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	550
Temperature (°C)	18.00
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190893
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.451
Loss on Ignition (%)	4.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	38.2
PAH Sum of 17 (mg/kg)	16.9
pH (pH Units)	7.99
ANC to pH 6 (mol/kg)	0.0661
ANC to pH 4 (mol/kg)	0.280

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00286	<0.0005	0.0286	<0.005	0.5	2	25
Barium	0.187	<0.0002	1.87	<0.002	20	100	300
Cadmium	0.00202	<0.00008	0.0202	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00206	<0.0003	0.0206	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0369	<0.003	0.369	<0.03	0.5	10	30
Nickel	0.00195	<0.0004	0.0195	<0.004	0.4	10	40
Lead	0.0186	<0.0002	0.186	<0.002	0.5	10	50
Antimony	0.00717	<0.001	0.0717	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.436	<0.001	4.36	<0.01	4	50	200
Chloride	50.9	<2	509	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	74.8	<2	748	<20	1000	20000	50000
Total Dissolved Solids	321	<5	3210	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.37	<3	33.7	<30	500	800	1000

Leach Test Information

Date Prepared	02-Feb-2019
pH (pH Units)	6.42
Conductivity (µS/cm)	442
Temperature (°C)	18.60
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190893
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.451
Loss on Ignition (%)	4.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	38.2
PAH Sum of 17 (mg/kg)	16.9
pH (pH Units)	7.99
ANC to pH 6 (mol/kg)	0.0661
ANC to pH 4 (mol/kg)	0.280

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Feb-2019
pH (pH Units)	6.42
Conductivity (µS/cm)	442
Temperature (°C)	18.60
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190894
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	8.99
Loss on Ignition (%)	3.24
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.4
PAH Sum of 17 (mg/kg)	25.7
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0687
ANC to pH 4 (mol/kg)	0.271

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00775	<0.0005	0.0775	<0.005	0.5	2	25
Barium	0.0151	<0.0002	0.151	<0.002	20	100	300
Cadmium	0.0000953	<0.00008	0.000953	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00144	<0.0003	0.0144	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0691	<0.003	0.691	<0.03	0.5	10	30
Nickel	0.00188	<0.0004	0.0188	<0.004	0.4	10	40
Lead	0.000902	<0.0002	0.00902	<0.002	0.5	10	50
Antimony	0.014	<0.001	0.14	<0.01	0.06	0.7	5
Selenium	0.00127	<0.001	0.0127	<0.01	0.1	0.5	7
Zinc	0.0238	<0.001	0.238	<0.01	4	50	200
Chloride	23.1	<2	231	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	83.6	<2	836	<20	1000	20000	50000
Total Dissolved Solids	285	<5	2850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.23	<3	92.3	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.14
Conductivity (µS/cm)	390
Temperature (°C)	19.20
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190894
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	8.99
Loss on Ignition (%)	3.24
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.4
PAH Sum of 17 (mg/kg)	25.7
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0687
ANC to pH 4 (mol/kg)	0.271

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.14
Conductivity (µS/cm)	390
Temperature (°C)	19.20
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.116
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190896
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.61
Loss on Ignition (%)	5.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.70
ANC to pH 6 (mol/kg)	0.0584
ANC to pH 4 (mol/kg)	0.612

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00397	<0.0005	0.0397	<0.005	0.5	2	25
Barium	0.0196	<0.0002	0.196	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00037	<0.0003	0.0037	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0509	<0.003	0.509	<0.03	0.5	10	30
Nickel	0.00194	<0.0004	0.0194	<0.004	0.4	10	40
Lead	0.000353	<0.0002	0.00353	<0.002	0.5	10	50
Antimony	0.00406	<0.001	0.0406	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0127	<0.001	0.127	<0.01	4	50	200
Chloride	11.4	<2	114	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	96.6	<2	966	<20	1000	20000	50000
Total Dissolved Solids	304	<5	3040	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.67	<3	96.7	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.04
Conductivity (µS/cm)	405
Temperature (°C)	17.10
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.116
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190896
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.61
Loss on Ignition (%)	5.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.70
ANC to pH 6 (mol/kg)	0.0584
ANC to pH 4 (mol/kg)	0.612

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.04
Conductivity (µS/cm)	405
Temperature (°C)	17.10
Volume Leachant (Litres)	0.875

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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190898
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.16
Loss on Ignition (%)	10.5
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.12
ANC to pH 6 (mol/kg)	0.0591
ANC to pH 4 (mol/kg)	0.290

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00641	<0.0005	0.0641	<0.005	0.5	2	25
Barium	0.00418	<0.0002	0.0418	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0345	<0.003	0.345	<0.03	0.5	10	30
Nickel	0.00103	<0.0004	0.0103	<0.004	0.4	10	40
Lead	0.000421	<0.0002	0.00421	<0.002	0.5	10	50
Antimony	0.00308	<0.001	0.0308	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00221	<0.001	0.0221	<0.01	4	50	200
Chloride	15.4	<2	154	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	2.6	<2	26	<20	1000	20000	50000
Total Dissolved Solids	206	<5	2060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	15.5	<3	155	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.16
Conductivity (µS/cm)	269
Temperature (°C)	19.20
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190898
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.16
Loss on Ignition (%)	10.5
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.12
ANC to pH 6 (mol/kg)	0.0591
ANC to pH 4 (mol/kg)	0.290

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.16
Conductivity (µS/cm)	269
Temperature (°C)	19.20
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.116
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190899
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.38
Loss on Ignition (%)	9.95
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.63
ANC to pH 6 (mol/kg)	0.0898
ANC to pH 4 (mol/kg)	0.398

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0132	<0.0005	0.132	<0.005	0.5	2	25
Barium	0.00413	<0.0002	0.0413	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0435	<0.003	0.435	<0.03	0.5	10	30
Nickel	0.00139	<0.0004	0.0139	<0.004	0.4	10	40
Lead	0.00116	<0.0002	0.0116	<0.002	0.5	10	50
Antimony	0.00386	<0.001	0.0386	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00423	<0.001	0.0423	<0.01	4	50	200
Chloride	26.8	<2	268	<20	800	15000	25000
Fluoride	0.541	<0.5	5.41	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	258	<5	2580	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	19.6	<3	196	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	346
Temperature (°C)	19.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.116	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190899
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.38
Loss on Ignition (%)	9.95
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.63
ANC to pH 6 (mol/kg)	0.0898
ANC to pH 4 (mol/kg)	0.398

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	346
Temperature (°C)	19.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190901
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.79
Loss on Ignition (%)	7.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.48
ANC to pH 6 (mol/kg)	0.0817
ANC to pH 4 (mol/kg)	0.286

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0153	<0.0005	0.153	<0.005	0.5	2	25
Barium	0.00349	<0.0002	0.0349	<0.002	20	100	300
Cadmium	0.000112	<0.00008	0.00112	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00469	<0.0003	0.0469	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000221	<0.00001	0.000221	<0.0001	0.01	0.2	2
Molybdenum	0.0448	<0.003	0.448	<0.03	0.5	10	30
Nickel	0.00266	<0.0004	0.0266	<0.004	0.4	10	40
Lead	0.00329	<0.0002	0.0329	<0.002	0.5	10	50
Antimony	0.00436	<0.001	0.0436	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00573	<0.001	0.0573	<0.01	4	50	200
Chloride	29.9	<2	299	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	294	<5	2940	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	22.3	<3	223	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	408
Temperature (°C)	19.20
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190901
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.79
Loss on Ignition (%)	7.89
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.48
ANC to pH 6 (mol/kg)	0.0817
ANC to pH 4 (mol/kg)	0.286

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	408
Temperature (°C)	19.20
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190903
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.356
Loss on Ignition (%)	2.26
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.42
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.03
ANC to pH 6 (mol/kg)	0.0811
ANC to pH 4 (mol/kg)	0.233

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00278	<0.0005	0.0278	<0.005	0.5	2	25
Barium	0.00707	<0.0002	0.0707	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0287	<0.003	0.287	<0.03	0.5	10	30
Nickel	0.00164	<0.0004	0.0164	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00348	<0.001	0.0348	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00112	<0.001	0.0112	<0.01	4	50	200
Chloride	20.5	<2	205	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	105	<2	1050	<20	1000	20000	50000
Total Dissolved Solids	313	<5	3130	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.97	<3	89.7	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.00
Conductivity (µS/cm)	436
Temperature (°C)	19.10
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190903
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.356
Loss on Ignition (%)	2.26
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.42
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.03
ANC to pH 6 (mol/kg)	0.0811
ANC to pH 4 (mol/kg)	0.233

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.00
Conductivity (µS/cm)	436
Temperature (°C)	19.10
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190905
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.77
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.25
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.22
ANC to pH 6 (mol/kg)	0.135
ANC to pH 4 (mol/kg)	0.479

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00224	<0.0005	0.0224	<0.005	0.5	2	25
Barium	0.00514	<0.0002	0.0514	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000478	<0.0003	0.00478	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00695	<0.003	0.0695	<0.03	0.5	10	30
Nickel	0.0011	<0.0004	0.011	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00321	<0.001	0.0321	<0.01	0.06	0.7	5
Selenium	0.00184	<0.001	0.0184	<0.01	0.1	0.5	7
Zinc	0.00306	<0.001	0.0306	<0.01	4	50	200
Chloride	6.3	<2	63	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	43	<2	430	<20	1000	20000	50000
Total Dissolved Solids	139	<5	1390	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.1	<3	51	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.69
Conductivity (µS/cm)	184
Temperature (°C)	19.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190905
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.77
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.25
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.22
ANC to pH 6 (mol/kg)	0.135
ANC to pH 4 (mol/kg)	0.479

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.69
Conductivity (µS/cm)	184
Temperature (°C)	19.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.72
Dry Matter Content (%)	93.7

Case	
SDG	190124-133
Lab Sample Number(s)	19190908
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.533
Loss on Ignition (%)	1.24
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.40
ANC to pH 6 (mol/kg)	0.156
ANC to pH 4 (mol/kg)	0.562

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00272	<0.0005	0.0272	<0.005	0.5	2	25
Barium	0.00363	<0.0002	0.0363	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00116	<0.001	0.0116	<0.01	0.06	0.7	5
Selenium	0.0011	<0.001	0.011	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	26.1	<2	261	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	15.9	<2	159	<20	1000	20000	50000
Total Dissolved Solids	137	<5	1370	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.26	<3	32.6	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.31
Conductivity (µS/cm)	179
Temperature (°C)	16.80
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.72
Dry Matter Content (%)	93.7

Case	
SDG	190124-133
Lab Sample Number(s)	19190908
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.533
Loss on Ignition (%)	1.24
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.40
ANC to pH 6 (mol/kg)	0.156
ANC to pH 4 (mol/kg)	0.562

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	7.31
Conductivity (µS/cm)	179
Temperature (°C)	16.80
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190910
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.335
Loss on Ignition (%)	1.40
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.11
ANC to pH 6 (mol/kg)	0.112
ANC to pH 4 (mol/kg)	0.338

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00215	<0.0005	0.0215	<0.005	0.5	2	25
Barium	0.00311	<0.0002	0.0311	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00112	<0.001	0.0112	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	47.7	<2	477	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.4	<2	124	<20	1000	20000	50000
Total Dissolved Solids	177	<5	1770	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.07	<3	30.7	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	9.04
Conductivity (µS/cm)	233
Temperature (°C)	19.20
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190910
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.335
Loss on Ignition (%)	1.40
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.11
ANC to pH 6 (mol/kg)	0.112
ANC to pH 4 (mol/kg)	0.338

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	9.04
Conductivity (µS/cm)	233
Temperature (°C)	19.20
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190914
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	1.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.25
ANC to pH 6 (mol/kg)	0.129
ANC to pH 4 (mol/kg)	0.365

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00116	<0.0005	0.0116	<0.005	0.5	2	25
Barium	0.0159	<0.0002	0.159	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	167	<2	1670	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	26.7	<2	267	<20	1000	20000	50000
Total Dissolved Solids	465	<5	4650	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.54
Conductivity (µS/cm)	633
Temperature (°C)	19.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190914
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	1.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.25
ANC to pH 6 (mol/kg)	0.129
ANC to pH 4 (mol/kg)	0.365

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.54
Conductivity (µS/cm)	633
Temperature (°C)	19.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.18
Dry Matter Content (%)	93.3

Case	
SDG	190124-133
Lab Sample Number(s)	19190916
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.308
Loss on Ignition (%)	1.32
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.44
ANC to pH 6 (mol/kg)	0.136
ANC to pH 4 (mol/kg)	1.21

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000542	<0.0005	0.00542	<0.005	0.5	2	25
Barium	0.0617	<0.0002	0.617	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0206	<0.003	0.206	<0.03	0.5	10	30
Nickel	0.00139	<0.0004	0.0139	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0026	<0.001	0.026	<0.01	0.06	0.7	5
Selenium	0.0266	<0.001	0.266	<0.01	0.1	0.5	7
Zinc	0.00398	<0.001	0.0398	<0.01	4	50	200
Chloride	187	<2	1870	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.7	<2	407	<20	1000	20000	50000
Total Dissolved Solids	488	<5	4880	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.47
Conductivity (µS/cm)	647
Temperature (°C)	17.00
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.18
Dry Matter Content (%)	93.3

Case	
SDG	190124-133
Lab Sample Number(s)	19190916
Sampled Date	21-Jan-2019
Customer Sample Ref.	BH237
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.308
Loss on Ignition (%)	1.32
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.44
ANC to pH 6 (mol/kg)	0.136
ANC to pH 4 (mol/kg)	1.21

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.47
Conductivity (µS/cm)	647
Temperature (°C)	17.00
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190919
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.14
Loss on Ignition (%)	1.17
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	80.9
PAH Sum of 17 (mg/kg)	21.1
pH (pH Units)	11.43
ANC to pH 6 (mol/kg)	0.185
ANC to pH 4 (mol/kg)	0.522

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00886	<0.0005	0.0886	<0.005	0.5	2	25
Barium	0.0156	<0.0002	0.156	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00222	<0.001	0.0222	<0.01	0.5	10	70
Copper	0.0223	<0.0003	0.223	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0134	<0.003	0.134	<0.03	0.5	10	30
Nickel	0.00138	<0.0004	0.0138	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00453	<0.001	0.0453	<0.01	0.06	0.7	5
Selenium	0.00453	<0.001	0.0453	<0.01	0.1	0.5	7
Zinc	0.00115	<0.001	0.0115	<0.01	4	50	200
Chloride	20.7	<2	207	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.3	<2	373	<20	1000	20000	50000
Total Dissolved Solids	180	<5	1800	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.51	<3	75.1	<30	500	800	1000

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	10.84
Conductivity (µS/cm)	277
Temperature (°C)	16.90
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190919
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.14
Loss on Ignition (%)	1.17
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	80.9
PAH Sum of 17 (mg/kg)	21.1
pH (pH Units)	11.43
ANC to pH 6 (mol/kg)	0.185
ANC to pH 4 (mol/kg)	0.522

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	10.84
Conductivity (µS/cm)	277
Temperature (°C)	16.90
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190921
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.68
Loss on Ignition (%)	12.2
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0418
ANC to pH 4 (mol/kg)	0.0917

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00513	<0.0005	0.0513	<0.005	0.5	2	25
Barium	0.00668	<0.0002	0.0668	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0425	<0.003	0.425	<0.03	0.5	10	30
Nickel	0.0018	<0.0004	0.018	<0.004	0.4	10	40
Lead	0.000271	<0.0002	0.00271	<0.002	0.5	10	50
Antimony	0.00307	<0.001	0.0307	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00352	<0.001	0.0352	<0.01	4	50	200
Chloride	7.5	<2	75	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	43.4	<2	434	<20	1000	20000	50000
Total Dissolved Solids	200	<5	2000	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.8	<3	108	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	256
Temperature (°C)	17.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190921
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.68
Loss on Ignition (%)	12.2
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0418
ANC to pH 4 (mol/kg)	0.0917

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	256
Temperature (°C)	17.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190922
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.11
Loss on Ignition (%)	14.0
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.04
ANC to pH 6 (mol/kg)	0.0564
ANC to pH 4 (mol/kg)	0.331

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00992	<0.0005	0.0992	<0.005	0.5	2	25
Barium	0.00519	<0.0002	0.0519	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.033	<0.003	0.33	<0.03	0.5	10	30
Nickel	0.00138	<0.0004	0.0138	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00201	<0.001	0.0201	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00198	<0.001	0.0198	<0.01	4	50	200
Chloride	16.7	<2	167	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36.7	<2	367	<20	1000	20000	50000
Total Dissolved Solids	253	<5	2530	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.2	<3	142	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.97
Conductivity (µS/cm)	293
Temperature (°C)	17.70
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190922
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.11
Loss on Ignition (%)	14.0
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.04
ANC to pH 6 (mol/kg)	0.0564
ANC to pH 4 (mol/kg)	0.331

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.97
Conductivity (µS/cm)	293
Temperature (°C)	17.70
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190923
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.14
Loss on Ignition (%)	16.0
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.0769
ANC to pH 4 (mol/kg)	0.170

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00724	<0.0005	0.0724	<0.005	0.5	2	25
Barium	0.00485	<0.0002	0.0485	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0441	<0.003	0.441	<0.03	0.5	10	30
Nickel	0.00222	<0.0004	0.0222	<0.004	0.4	10	40
Lead	0.000359	<0.0002	0.00359	<0.002	0.5	10	50
Antimony	0.00229	<0.001	0.0229	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00246	<0.001	0.0246	<0.01	4	50	200
Chloride	22.2	<2	222	<20	800	15000	25000
Fluoride	0.513	<0.5	5.13	<5	10	150	500
Sulphate (soluble)	2.2	<2	22	<20	1000	20000	50000
Total Dissolved Solids	250	<5	2500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	20.5	<3	205	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	264
Temperature (°C)	17.60
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190923
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.14
Loss on Ignition (%)	16.0
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.0769
ANC to pH 4 (mol/kg)	0.170

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	264
Temperature (°C)	17.60
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190924
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.18
Loss on Ignition (%)	5.92
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	170
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.0773
ANC to pH 4 (mol/kg)	0.330

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0118	<0.0005	0.118	<0.005	0.5	2	25
Barium	0.0064	<0.0002	0.064	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0459	<0.003	0.459	<0.03	0.5	10	30
Nickel	0.00168	<0.0004	0.0168	<0.004	0.4	10	40
Lead	0.000506	<0.0002	0.00506	<0.002	0.5	10	50
Antimony	0.0046	<0.001	0.046	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00427	<0.001	0.0427	<0.01	4	50	200
Chloride	14.4	<2	144	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	19.6	<2	196	<20	1000	20000	50000
Total Dissolved Solids	219	<5	2190	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.7	<3	137	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.28
Conductivity (µS/cm)	208
Temperature (°C)	17.40
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190924
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.18
Loss on Ignition (%)	5.92
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	170
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.0773
ANC to pH 4 (mol/kg)	0.330

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	8.28
Conductivity (µS/cm)	208
Temperature (°C)	17.40
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190925
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	1.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.0942
ANC to pH 4 (mol/kg)	0.406

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0018	<0.0005	0.018	<0.005	0.5	2	25
Barium	0.00822	<0.0002	0.0822	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0201	<0.003	0.201	<0.03	0.5	10	30
Nickel	0.00143	<0.0004	0.0143	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00324	<0.001	0.0324	<0.01	0.06	0.7	5
Selenium	0.00121	<0.001	0.0121	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	10.9	<2	109	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	90.7	<2	907	<20	1000	20000	50000
Total Dissolved Solids	262	<5	2620	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.76	<3	47.6	<30	500	800	1000

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	8.11
Conductivity (µS/cm)	351
Temperature (°C)	16.90
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190925
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	1.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.0942
ANC to pH 4 (mol/kg)	0.406

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	8.11
Conductivity (µS/cm)	351
Temperature (°C)	16.90
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.0
Dry Matter Content (%)	90.9

Case	
SDG	190124-133
Lab Sample Number(s)	19190926
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.30
Loss on Ignition (%)	1.39
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.50
ANC to pH 6 (mol/kg)	0.0863
ANC to pH 4 (mol/kg)	0.308

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00179	<0.0005	0.0179	<0.005	0.5	2	25
Barium	0.00536	<0.0002	0.0536	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000361	<0.0003	0.00361	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0137	<0.003	0.137	<0.03	0.5	10	30
Nickel	0.00148	<0.0004	0.0148	<0.004	0.4	10	40
Lead	0.000206	<0.0002	0.00206	<0.002	0.5	10	50
Antimony	0.00312	<0.001	0.0312	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00205	<0.001	0.0205	<0.01	4	50	200
Chloride	4.1	<2	41	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	49.1	<2	491	<20	1000	20000	50000
Total Dissolved Solids	165	<5	1650	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.67	<3	36.7	<30	500	800	1000

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.40
Conductivity (µS/cm)	220
Temperature (°C)	17.40
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.0
Dry Matter Content (%)	90.9

Case	
SDG	190124-133
Lab Sample Number(s)	19190926
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.30
Loss on Ignition (%)	1.39
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.50
ANC to pH 6 (mol/kg)	0.0863
ANC to pH 4 (mol/kg)	0.308

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	29-Jan-2019
pH (pH Units)	7.40
Conductivity (µS/cm)	220
Temperature (°C)	17.40
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	7.53
Dry Matter Content (%)	93.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190929
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.381
Loss on Ignition (%)	0.855
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.43
ANC to pH 6 (mol/kg)	0.0887
ANC to pH 4 (mol/kg)	0.307

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00145	<0.0005	0.0145	<0.005	0.5	2	25
Barium	0.0031	<0.0002	0.031	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00745	<0.003	0.0745	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	0.000331	<0.0002	0.00331	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00156	<0.001	0.0156	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	36.4	<2	364	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	6.9	<2	69	<20	1000	20000	50000
Total Dissolved Solids	142	<5	1420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	9.49
Conductivity (µS/cm)	193
Temperature (°C)	16.80
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.53
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.0
Particle Size <4mm	>95%		

Case	
SDG	190124-133
Lab Sample Number(s)	19190929
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.381
Loss on Ignition (%)	0.855
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.43
ANC to pH 6 (mol/kg)	0.0887
ANC to pH 4 (mol/kg)	0.307

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	31-Jan-2019
pH (pH Units)	9.49
Conductivity (µS/cm)	193
Temperature (°C)	16.80
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190931
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.319
Loss on Ignition (%)	1.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.22
ANC to pH 6 (mol/kg)	0.0720
ANC to pH 4 (mol/kg)	0.231

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00171	<0.0005	0.0171	<0.005	0.5	2	25
Barium	0.00467	<0.0002	0.0467	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00304	<0.003	0.0304	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00118	<0.001	0.0118	<0.01	0.06	0.7	5
Selenium	0.00109	<0.001	0.0109	<0.01	0.1	0.5	7
Zinc	0.00108	<0.001	0.0108	<0.01	4	50	200
Chloride	138	<2	1380	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25.2	<2	252	<20	1000	20000	50000
Total Dissolved Solids	386	<5	3860	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.68	<3	36.8	<30	500	800	1000

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.96
Conductivity (µS/cm)	531
Temperature (°C)	19.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190124-133
Lab Sample Number(s)	19190931
Sampled Date	18-Jan-2019
Customer Sample Ref.	BH238
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.319
Loss on Ignition (%)	1.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.22
ANC to pH 6 (mol/kg)	0.0720
ANC to pH 4 (mol/kg)	0.231

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Jan-2019
pH (pH Units)	8.96
Conductivity (µS/cm)	531
Temperature (°C)	19.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:18:56



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19146735	19190837	19190838	19190839	19190840	19190841	19190842	19190844	19190847	19190848
	BH230	BH230	BH230	BH230	BH230	BH230	BH230	BH230	BH230	BH230
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	16.00 - 17.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 7.00	9.00 - 10.00	10.00 - 11.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	04-Feb-2019	04-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019
Anions by Kone (w)	11-Feb-2019	07-Feb-2019	11-Feb-2019	11-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	11-Feb-2019	07-Feb-2019	11-Feb-2019
Asbestos ID in Solid Samples	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
CEN 10:1 Leachate (1 Stage)	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019
CEN Readings	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Coronene	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019	29-Jan-2019
Dissolved Metals by ICP-MS	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Dissolved Organic/Inorganic Carbon	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019
EPH CWG (Aliphatic) GC (S)	02-Feb-2019	02-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
EPH CWG (Aromatic) GC (S)	02-Feb-2019	02-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Fluoride	01-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
GRO by GC-FID (S)	08-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Hexavalent Chromium (s)	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Loss on Ignition in soils	05-Feb-2019	05-Feb-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	01-Feb-2019
Mercury Dissolved	01-Feb-2019	02-Feb-2019	01-Feb-2019	01-Feb-2019	02-Feb-2019	02-Feb-2019	01-Feb-2019	02-Feb-2019	02-Feb-2019	01-Feb-2019
Metals in solid samples by OES	04-Feb-2019	04-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019	05-Feb-2019	04-Feb-2019	05-Feb-2019
Mineral Oil	30-Jan-2019	02-Feb-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019
PAH 16 & 17 Calc	04-Feb-2019	30-Jan-2019	04-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	04-Feb-2019	04-Feb-2019	31-Jan-2019	30-Jan-2019
PAH by GCMS	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019
PCBs by GCMS	04-Feb-2019	04-Feb-2019	04-Feb-2019	01-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	01-Feb-2019
pH	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
Phenols by HPLC (S)	02-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019
Phenols by HPLC (W)	31-Jan-2019	01-Feb-2019	04-Feb-2019	31-Jan-2019	02-Feb-2019	02-Feb-2019	04-Feb-2019	31-Jan-2019	01-Feb-2019	31-Jan-2019
Sample description	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019
Total Dissolved Solids	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Total Organic Carbon	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
TPH CWG GC (S)	08-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	07-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
VOC MS (S)	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19190850	19190852	19190855	19190857	19190858	19190859	19190860	19190861	19190862	19190865
	BH230	BH230	BH231	BH231	BH231	BH231	BH231	BH231	BH231	BH231
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	12.00 - 13.00	14.00 - 15.00	0.00 - 0.50	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	04-Feb-2019	05-Feb-2019	31-Jan-2019	31-Jan-2019	05-Feb-2019	04-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019
Anions by Kone (w)	11-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	06-Feb-2019	06-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019	07-Feb-2019
Asbestos ID in Solid Samples	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
CEN 10:1 Leachate (1 Stage)	27-Jan-2019	27-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	27-Jan-2019
CEN Readings	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	03-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	28-Jan-2019
Coronene	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019
Dissolved Metals by ICP-MS	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Dissolved Organic/Inorganic Carbon	05-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
EPH CWG (Aliphatic) GC (S)	05-Feb-2019	05-Feb-2019	02-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	02-Feb-2019	04-Feb-2019	04-Feb-2019	02-Feb-2019
EPH CWG (Aromatic) GC (S)	05-Feb-2019	05-Feb-2019	02-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	02-Feb-2019	04-Feb-2019	04-Feb-2019	02-Feb-2019
Fluoride	04-Feb-2019	04-Feb-2019	31-Jan-2019	31-Jan-2019	13-Feb-2019	05-Feb-2019	13-Feb-2019	31-Jan-2019	31-Jan-2019	04-Feb-2019
GRO by GC-FID (S)	05-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019
Hexavalent Chromium (s)	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Loss on Ignition in soils	05-Feb-2019	01-Feb-2019	05-Feb-2019	01-Feb-2019	01-Feb-2019	05-Feb-2019	31-Jan-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019
Mercury Dissolved	01-Feb-2019	01-Feb-2019	02-Feb-2019	02-Feb-2019	01-Feb-2019	04-Feb-2019	01-Feb-2019	01-Feb-2019	02-Feb-2019	01-Feb-2019
Metals in solid samples by OES	04-Feb-2019	04-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	04-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Mineral Oil	30-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	02-Feb-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019
PAH 16 & 17 Calc	30-Jan-2019	04-Feb-2019	04-Feb-2019	30-Jan-2019	04-Feb-2019	04-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
PAH by GCMS	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	04-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
PCBs by GCMS	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	01-Feb-2019
pH	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
Phenols by HPLC (S)	02-Feb-2019	02-Feb-2019	01-Feb-2019	01-Feb-2019	02-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Phenols by HPLC (W)	04-Feb-2019	04-Feb-2019	02-Feb-2019	01-Feb-2019	02-Feb-2019	05-Feb-2019	01-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019
Sample description	26-Jan-2019	26-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	30-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	26-Jan-2019
Total Dissolved Solids	29-Jan-2019	29-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	04-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	29-Jan-2019
Total Organic Carbon	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019
TPH CWG GC (S)	05-Feb-2019	07-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019
VOC MS (S)	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	04-Feb-2019	05-Feb-2019	06-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19190866	19190869	19190872	19190875	19190876	19190877	19190878	19190879	19190880	19190881
	BH231	BH231	BH231	BH236	BH236	BH236	BH236	BH236	BH236	BH236
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth	10.00 - 11.00	12.00 - 13.00	14.00 - 15.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	31-Jan-2019	05-Feb-2019	31-Jan-2019	05-Feb-2019	05-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	05-Feb-2019	31-Jan-2019
Anions by Kone (w)	07-Feb-2019	11-Feb-2019	11-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
Asbestos ID in Solid Samples	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
CEN 10:1 Leachate (1 Stage)	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	29-Jan-2019	29-Jan-2019
CEN Readings	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019
Coronene	29-Jan-2019	30-Jan-2019	29-Jan-2019	31-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019
Dissolved Metals by ICP-MS	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Dissolved Organic/Inorganic Carbon	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	06-Feb-2019	05-Feb-2019
EPH CWG (Aliphatic) GC (S)	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	05-Feb-2019
EPH CWG (Aromatic) GC (S)	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019	05-Feb-2019
Fluoride	04-Feb-2019	04-Feb-2019	04-Feb-2019	01-Feb-2019	04-Feb-2019	04-Feb-2019	01-Feb-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019
GRO by GC-FID (S)	05-Feb-2019	05-Feb-2019	08-Feb-2019	08-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019
Hexavalent Chromium (s)	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Loss on Ignition in soils	31-Jan-2019	01-Feb-2019	29-Jan-2019	05-Feb-2019	05-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	05-Feb-2019	31-Jan-2019
Mercury Dissolved	01-Feb-2019	01-Feb-2019	01-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	01-Feb-2019	02-Feb-2019
Metals in solid samples by OES	01-Feb-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	05-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	05-Feb-2019	01-Feb-2019
Mineral Oil	31-Jan-2019	02-Feb-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	02-Feb-2019
PAH 16 & 17 Calc	04-Feb-2019	04-Feb-2019	30-Jan-2019	31-Jan-2019	04-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
PAH by GCMS	30-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
PCBs by GCMS	01-Feb-2019	04-Feb-2019	01-Feb-2019	04-Feb-2019	04-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	05-Feb-2019	04-Feb-2019
pH	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
Phenols by HPLC (S)	02-Feb-2019	02-Feb-2019	31-Jan-2019	02-Feb-2019	02-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	31-Jan-2019
Phenols by HPLC (W)	31-Jan-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	31-Jan-2019	04-Feb-2019	04-Feb-2019	31-Jan-2019	02-Feb-2019	02-Feb-2019
Sample description	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	27-Jan-2019	27-Jan-2019
Total Dissolved Solids	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	31-Jan-2019	31-Jan-2019
Total Organic Carbon	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
TPH CWG GC (S)	05-Feb-2019	05-Feb-2019	08-Feb-2019	08-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	07-Feb-2019	05-Feb-2019	06-Feb-2019
VOC MS (S)	05-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	04-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19190884	19190885	19190889	19190891	19190893	19190894	19190896	19190898	19190899	19190901
	BH236	BH236	BH236	BH236	BH237	BH237	BH237	BH237	BH237	BH237
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth	8.00 - 9.00	9.00 - 10.00	13.00 - 14.00	15.00 - 16.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6		31-Jan-2019	04-Feb-2019	31-Jan-2019	05-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	04-Feb-2019	04-Feb-2019
Anions by Kone (w)	06-Feb-2019	11-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	11-Feb-2019	11-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Asbestos ID in Solid Samples	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
CEN 10:1 Leachate (1 Stage)	29-Jan-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	02-Feb-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019
CEN Readings	30-Jan-2019	30-Jan-2019	03-Feb-2019	30-Jan-2019	04-Feb-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Coronene		31-Jan-2019	01-Feb-2019	30-Jan-2019	01-Feb-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019
Dissolved Metals by ICP-MS	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019
Dissolved Organic/Inorganic Carbon	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019
EPH CWG (Aliphatic) GC (S)		02-Feb-2019	05-Feb-2019	05-Feb-2019	02-Feb-2019	02-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019
EPH CWG (Aromatic) GC (S)		02-Feb-2019	05-Feb-2019	05-Feb-2019	02-Feb-2019	02-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Fluoride	31-Jan-2019	31-Jan-2019	05-Feb-2019	01-Feb-2019	04-Feb-2019	04-Feb-2019	31-Jan-2019	04-Feb-2019	01-Feb-2019	01-Feb-2019
GRO by GC-FID (S)		05-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019
Hexavalent Chromium (s)		05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Loss on Ignition in soils		01-Feb-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	01-Feb-2019	01-Feb-2019	31-Jan-2019	05-Feb-2019	05-Feb-2019
Mercury Dissolved	01-Feb-2019	01-Feb-2019	04-Feb-2019	01-Feb-2019	04-Feb-2019	02-Feb-2019	01-Feb-2019	02-Feb-2019	01-Feb-2019	01-Feb-2019
Metals in solid samples by OES		01-Feb-2019	04-Feb-2019	01-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	05-Feb-2019
Mineral Oil		31-Jan-2019	02-Feb-2019	30-Jan-2019	02-Feb-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019
PAH 16 & 17 Calc		04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	31-Jan-2019	04-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
PAH by GCMS		31-Jan-2019	04-Feb-2019	30-Jan-2019	04-Feb-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
PCBs by GCMS		04-Feb-2019	04-Feb-2019	04-Feb-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	01-Feb-2019	04-Feb-2019	04-Feb-2019
pH		04-Feb-2019	01-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
Phenols by HPLC (S)		01-Feb-2019	01-Feb-2019	02-Feb-2019	02-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	02-Feb-2019
Phenols by HPLC (W)	01-Feb-2019	31-Jan-2019	05-Feb-2019	02-Feb-2019	05-Feb-2019	01-Feb-2019	01-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
Sample description		27-Jan-2019	30-Jan-2019	27-Jan-2019	29-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019
Total Dissolved Solids	31-Jan-2019	31-Jan-2019	04-Feb-2019	31-Jan-2019	04-Feb-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Total Organic Carbon		06-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019
TPH CWG GC (S)		05-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019
VOC MS (S)		04-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19190903	19190905	19190908	19190910	19190914	19190916	19190919	19190921	19190922	19190923
	BH237	BH237	BH237	BH237	BH237	BH237	BH238	BH238	BH238	BH238
AGS Ref. Depth Type										
	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	9.00 - 10.00	12.00 - 13.00	14.00 - 15.00	0.00 - 0.50	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	04-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	04-Feb-2019	31-Jan-2019	05-Feb-2019	31-Jan-2019	05-Feb-2019	05-Feb-2019
Anions by Kone (w)	11-Feb-2019	07-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	11-Feb-2019	06-Feb-2019	11-Feb-2019	11-Feb-2019	11-Feb-2019
Asbestos ID in Solid Samples	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
CEN 10:1 Leachate (1 Stage)	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
CEN Readings	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	03-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
Coronene	31-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	01-Feb-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019
Dissolved Metals by ICP-MS	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Dissolved Organic/Inorganic Carbon	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019
EPH CWG (Aliphatic) GC (S)	05-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	02-Feb-2019	05-Feb-2019	02-Feb-2019	02-Feb-2019	05-Feb-2019	05-Feb-2019
EPH CWG (Aromatic) GC (S)	05-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	02-Feb-2019	05-Feb-2019	02-Feb-2019	02-Feb-2019	05-Feb-2019	05-Feb-2019
Fluoride	04-Feb-2019	04-Feb-2019	31-Jan-2019	01-Feb-2019	04-Feb-2019	01-Feb-2019	05-Feb-2019	01-Feb-2019	13-Feb-2019	01-Feb-2019
GRO by GC-FID (S)	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Hexavalent Chromium (s)	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Loss on Ignition in soils	05-Feb-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	05-Feb-2019
Mercury Dissolved	01-Feb-2019	02-Feb-2019	02-Feb-2019	01-Feb-2019	02-Feb-2019	01-Feb-2019	04-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Metals in solid samples by OES	04-Feb-2019	05-Feb-2019	01-Feb-2019	01-Feb-2019	04-Feb-2019	01-Feb-2019	04-Feb-2019	01-Feb-2019	05-Feb-2019	05-Feb-2019
Mineral Oil	31-Jan-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	02-Feb-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019
PAH 16 & 17 Calc	04-Feb-2019	04-Feb-2019	30-Jan-2019	30-Jan-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
PAH by GCMS	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	04-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
PCBs by GCMS	04-Feb-2019	04-Feb-2019	01-Feb-2019	01-Feb-2019	04-Feb-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019
pH	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
Phenols by HPLC (S)	01-Feb-2019	01-Feb-2019	01-Feb-2019	31-Jan-2019	02-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	02-Feb-2019
Phenols by HPLC (W)	04-Feb-2019	31-Jan-2019	01-Feb-2019	04-Feb-2019	31-Jan-2019	01-Feb-2019	05-Feb-2019	01-Feb-2019	02-Feb-2019	02-Feb-2019
Sample description	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	27-Jan-2019	29-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019
Total Dissolved Solids	29-Jan-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	31-Jan-2019	04-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019
Total Organic Carbon	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	06-Feb-2019	06-Feb-2019
TPH CWG GC (S)	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
VOC MS (S)	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	04-Feb-2019	06-Feb-2019	06-Feb-2019	04-Feb-2019

Lab Sample No(s) Customer Sample Ref.	19190924	19190925	19190926	19190929	19190931	19190932	19190934
	BH238	BH238	BH238	BH238	BH238	BH238	BH238
AGS Ref. Depth Type							
	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	9.00 - 10.00	11.00 - 12.00	12.00 - 13.00	14.00 - 15.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	31-Jan-2019	04-Feb-2019	31-Jan-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019	31-Jan-2019
Anions by Kone (w)	11-Feb-2019	06-Feb-2019	11-Feb-2019	06-Feb-2019	07-Feb-2019	07-Feb-2019	07-Feb-2019
Asbestos ID in Solid Samples	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
CEN 10:1 Leachate (1 Stage)	29-Jan-2019	31-Jan-2019	29-Jan-2019	31-Jan-2019	27-Jan-2019	27-Jan-2019	27-Jan-2019
CEN Readings	30-Jan-2019	03-Feb-2019	30-Jan-2019	03-Feb-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Coronene	29-Jan-2019	01-Feb-2019	30-Jan-2019	01-Feb-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019
Dissolved Metals by ICP-MS	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Dissolved Organic/Inorganic Carbon	06-Feb-2019	05-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
EPH CWG (Aliphatic) GC (S)	04-Feb-2019	05-Feb-2019	05-Feb-2019	02-Feb-2019	05-Feb-2019	02-Feb-2019	05-Feb-2019
EPH CWG (Aromatic) GC (S)	04-Feb-2019	05-Feb-2019	04-Feb-2019	02-Feb-2019	05-Feb-2019	02-Feb-2019	04-Feb-2019
Fluoride	01-Feb-2019	05-Feb-2019	31-Jan-2019	05-Feb-2019	01-Feb-2019	04-Feb-2019	04-Feb-2019
GRO by GC-FID (S)	05-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019	08-Feb-2019
Hexavalent Chromium (s)	05-Feb-2019	05-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019
Loss on Ignition in soils	31-Jan-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	31-Jan-2019
Mercury Dissolved	02-Feb-2019	04-Feb-2019	01-Feb-2019	04-Feb-2019	01-Feb-2019	02-Feb-2019	01-Feb-2019
Metals in solid samples by OES	01-Feb-2019	04-Feb-2019	01-Feb-2019	04-Feb-2019	05-Feb-2019	04-Feb-2019	01-Feb-2019
Mineral Oil	31-Jan-2019	02-Feb-2019	30-Jan-2019	02-Feb-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019
PAH 16 & 17 Calc	30-Jan-2019	04-Feb-2019	30-Jan-2019	04-Feb-2019	30-Jan-2019	31-Jan-2019	04-Feb-2019
PAH by GCMS	30-Jan-2019	04-Feb-2019	30-Jan-2019	04-Feb-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019
PCBs by GCMS	04-Feb-2019	04-Feb-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
pH	04-Feb-2019	04-Feb-2019	04-Feb-2019	01-Feb-2019	04-Feb-2019	04-Feb-2019	04-Feb-2019
Phenols by HPLC (S)	02-Feb-2019	01-Feb-2019	04-Feb-2019	02-Feb-2019	02-Feb-2019	02-Feb-2019	01-Feb-2019
Phenols by HPLC (W)	02-Feb-2019	05-Feb-2019	01-Feb-2019	05-Feb-2019	04-Feb-2019	04-Feb-2019	31-Jan-2019
Sample description	27-Jan-2019	30-Jan-2019	27-Jan-2019	29-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019
Total Dissolved Solids	31-Jan-2019	04-Feb-2019	31-Jan-2019	04-Feb-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Total Organic Carbon	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019
TPH CWG GC (S)	05-Feb-2019	06-Feb-2019	06-Feb-2019	05-Feb-2019	05-Feb-2019	07-Feb-2019	08-Feb-2019
VOC MS (S)	05-Feb-2019	04-Feb-2019	04-Feb-2019	05-Feb-2019	05-Feb-2019	05-Feb-2019	06-Feb-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

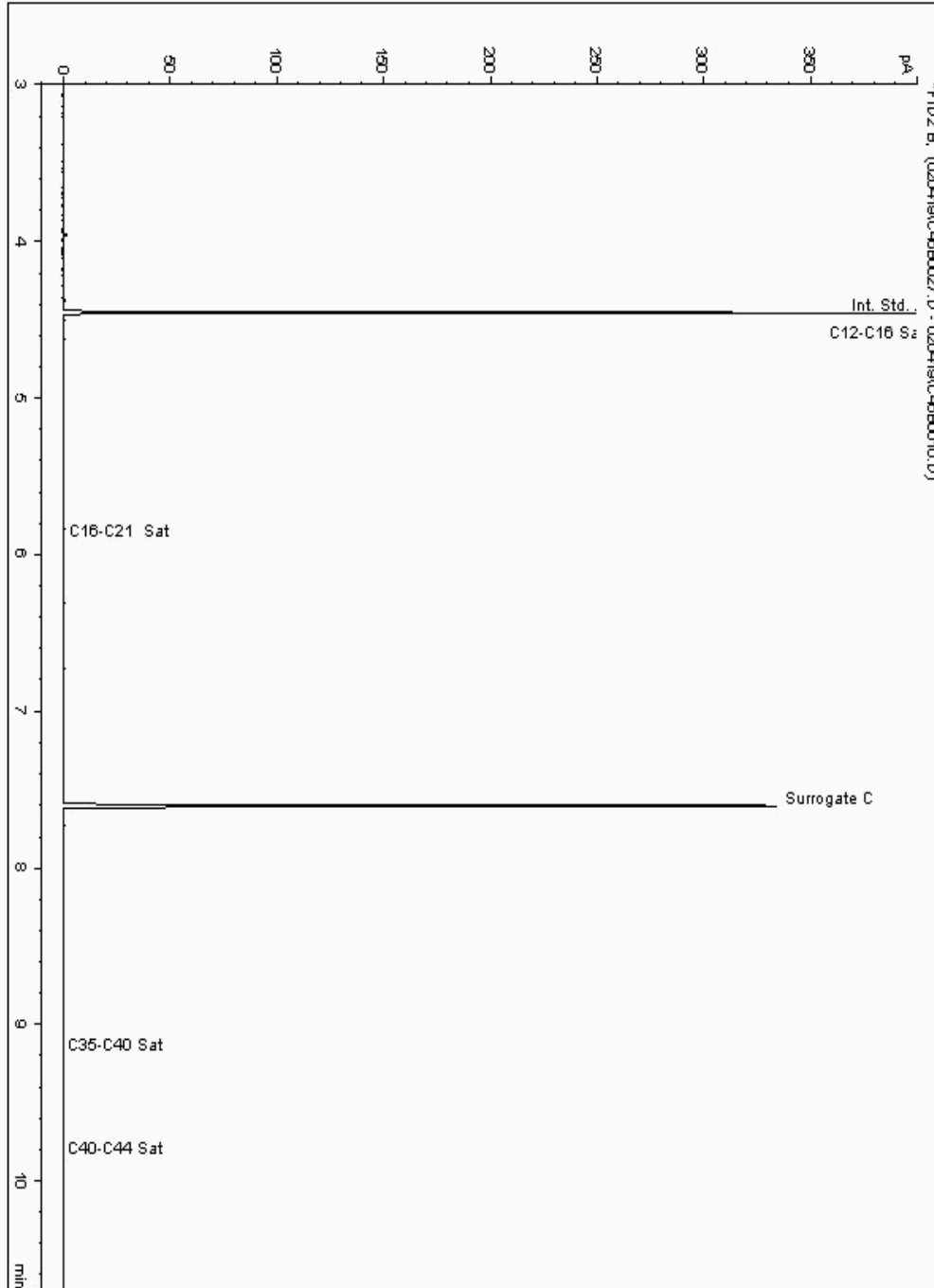
Analysis: EPH CWG (Aliphatic) GC (S)
19207753

Sample No :
Sample ID : BH230

19,207,753 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040110-
Date Acquired : 04/02/2019 19:41:52 PM
Units : ppb
Dilution: BH230[10.00 - 11.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

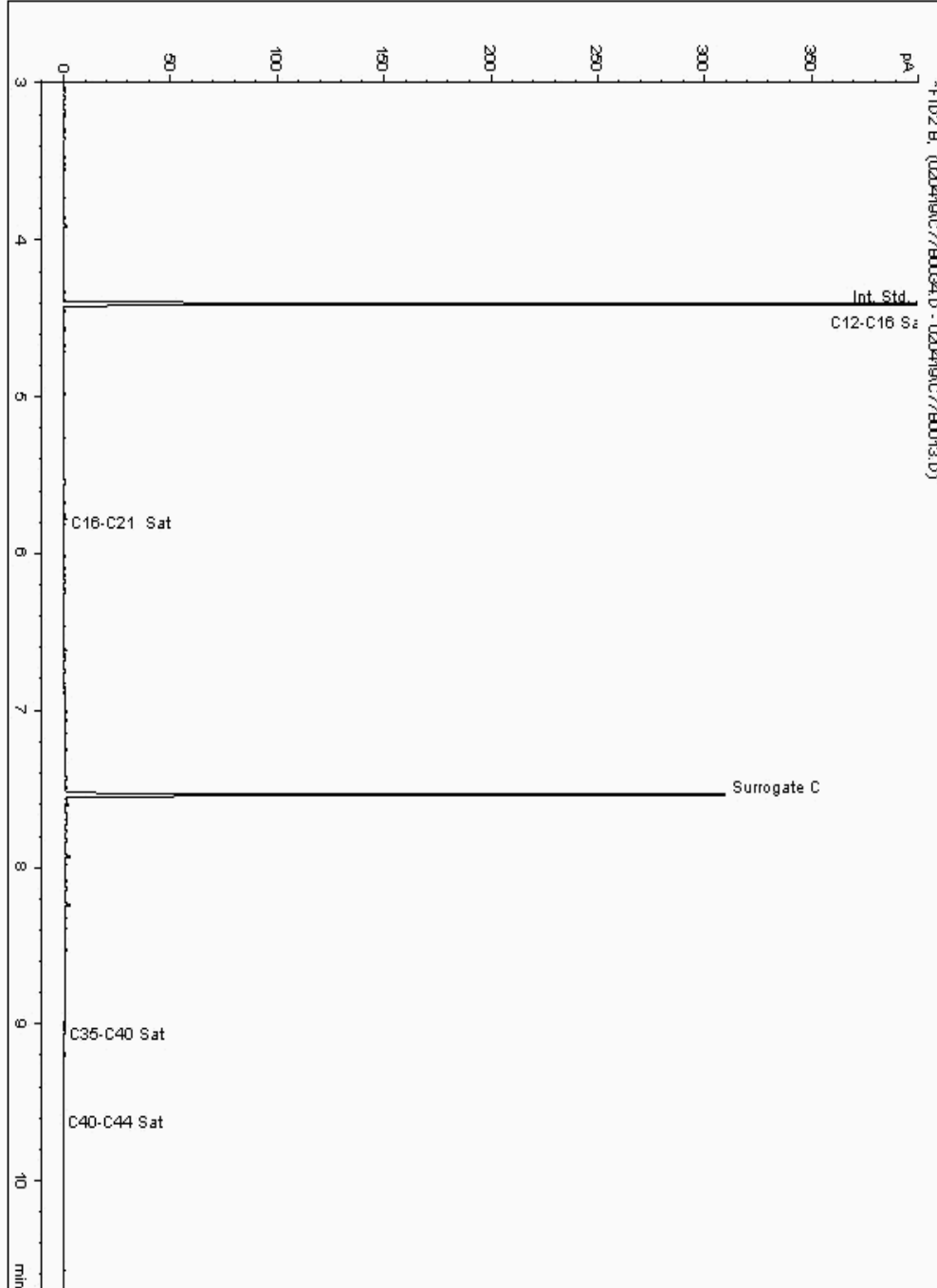
Analysis: EPH CWG (Aliphatic) GC (S)
19207919

Sample No :
Sample ID : BH230

19,207,919 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040002-
Date Acquired : 04/02/2019 19:48:59 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

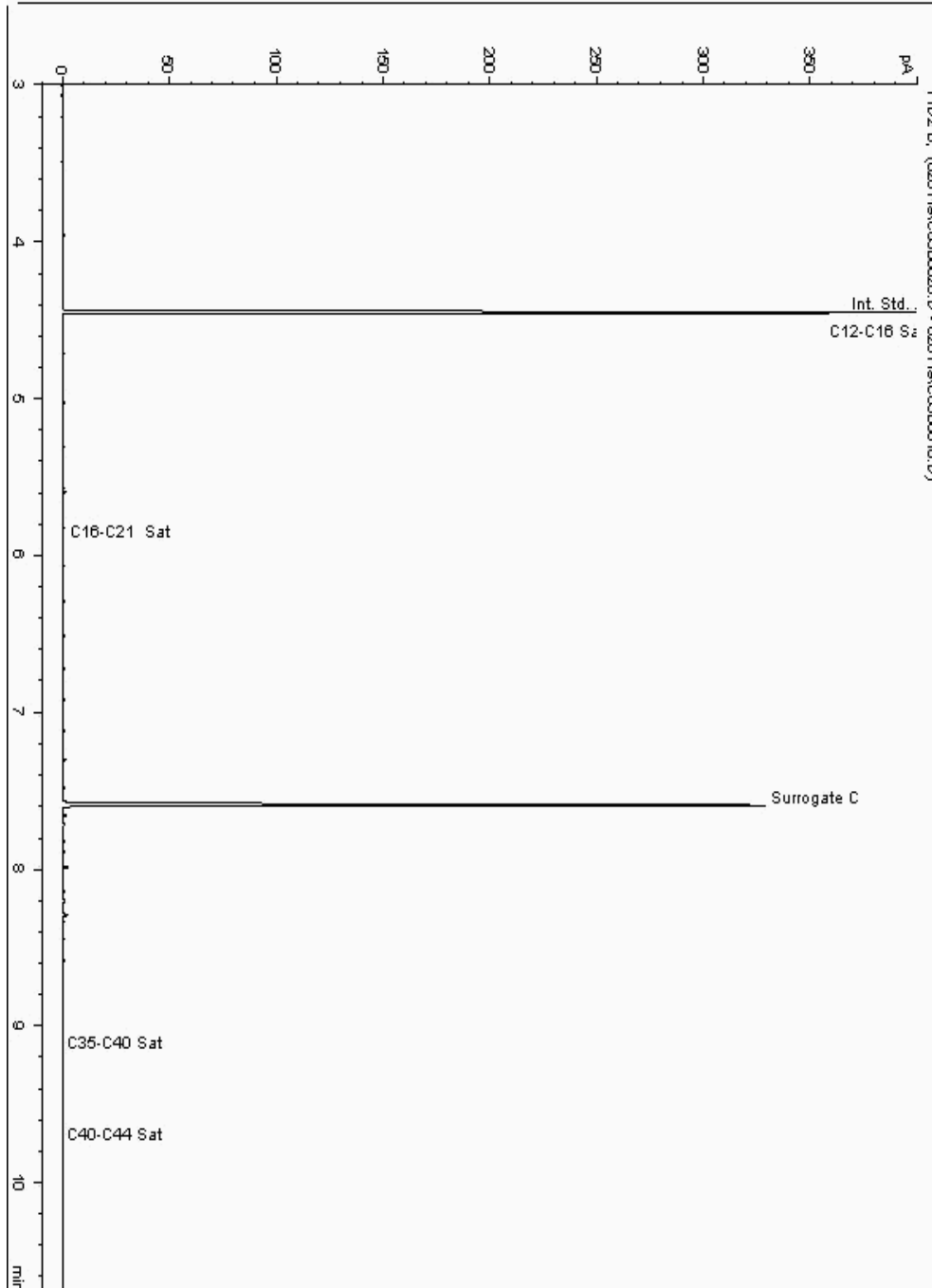
Analysis: EPH CWG (Aliphatic) GC (S)
19207942

Sample No :
Sample ID : BH237

19,207,942Depth :0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040865-
Date Acquired : 01/02/2019 18:04:48 PM
Units : ppb
Dilution: BH237[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

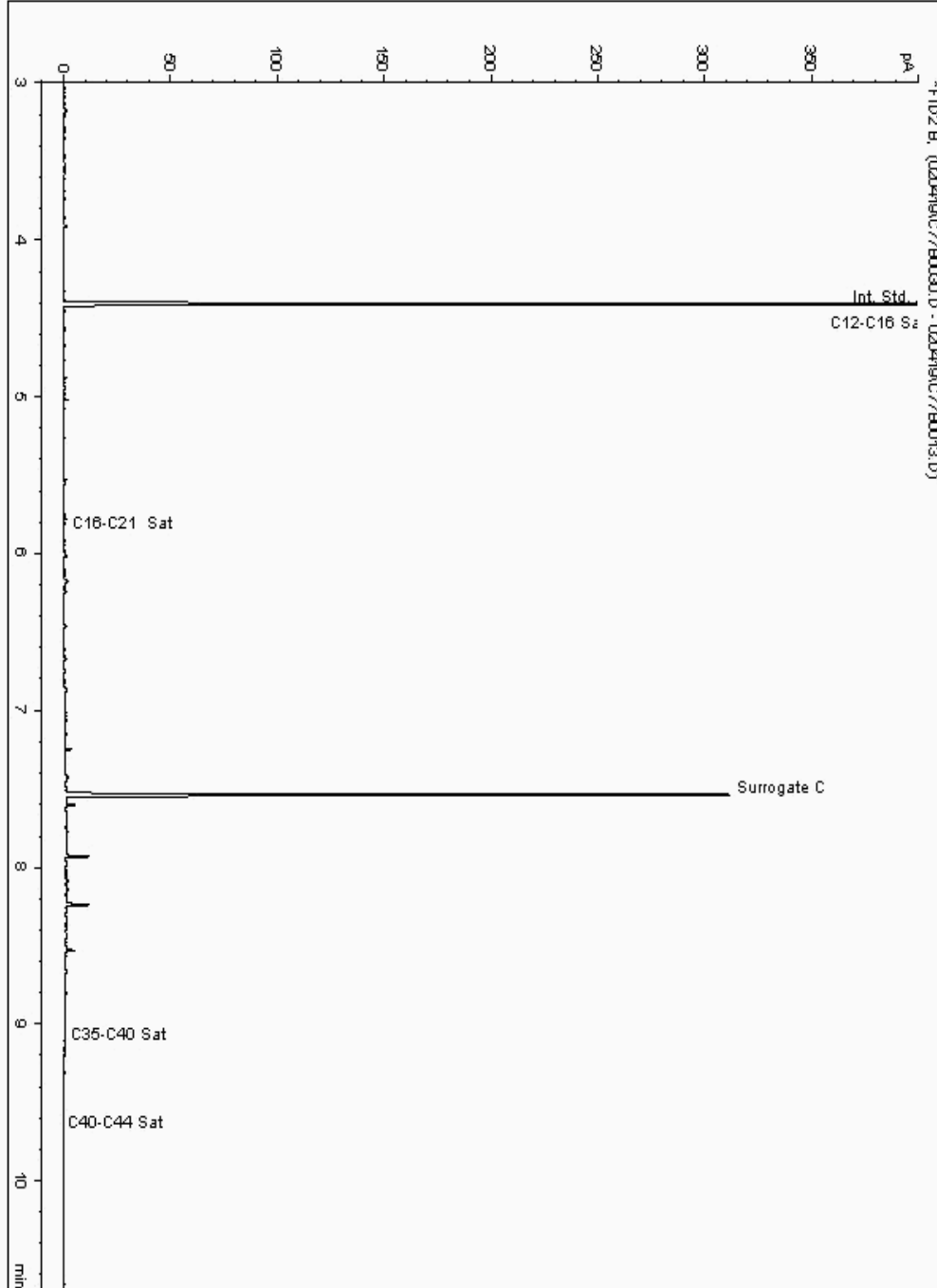
Analysis: EPH CWG (Aliphatic) GC (S)
19208028

Sample No :
Sample ID : BH230

19,208,028 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18039949-
Date Acquired : 04/02/2019 18:44:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

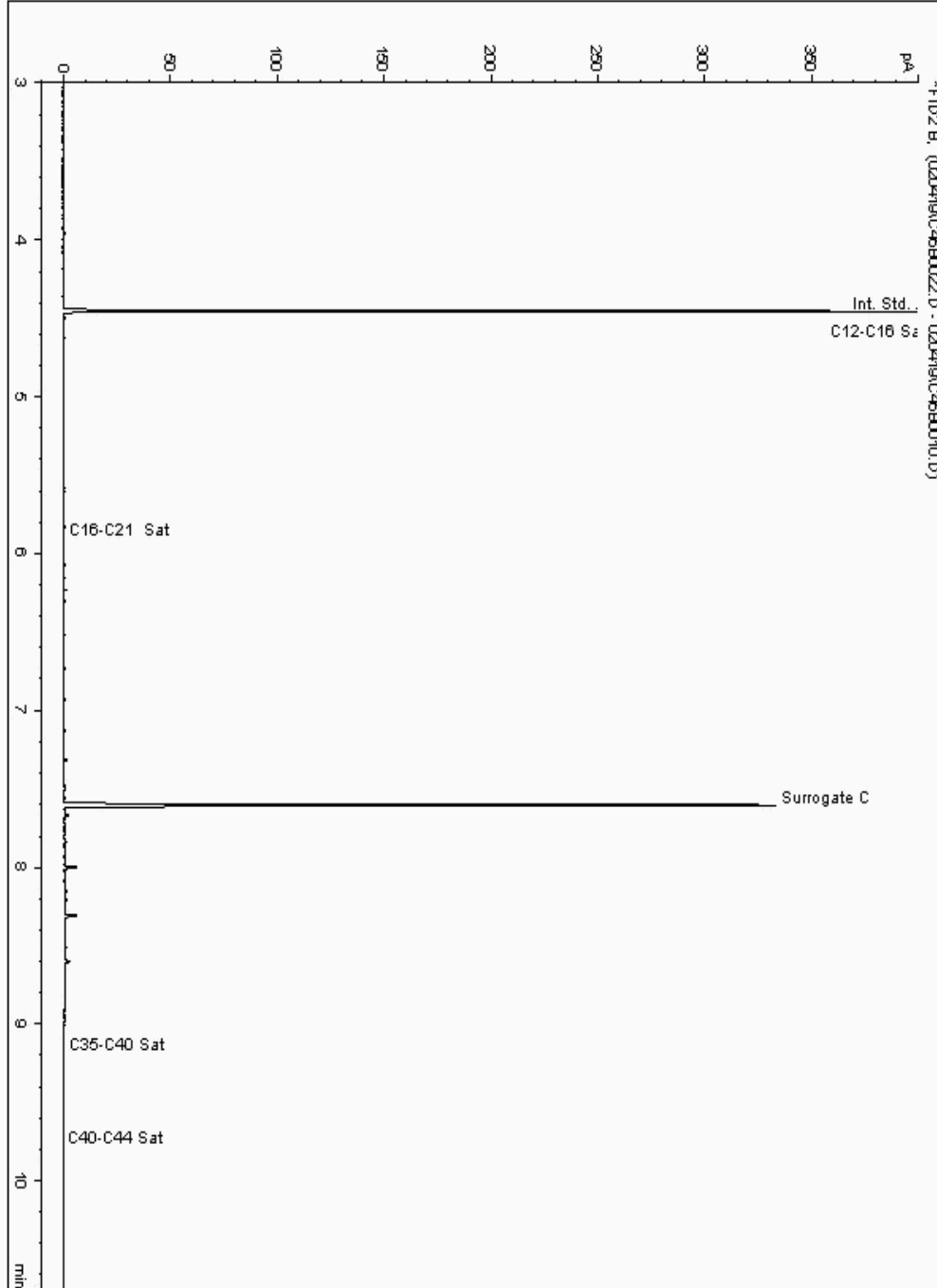
Analysis: EPH CWG (Aliphatic) GC (S)
19208083

Sample No :
Sample ID : BH237

19,208,083 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040888-
Date Acquired : 04/02/2019 18:09:30 PM
Units : ppb
Dilution: BH237[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

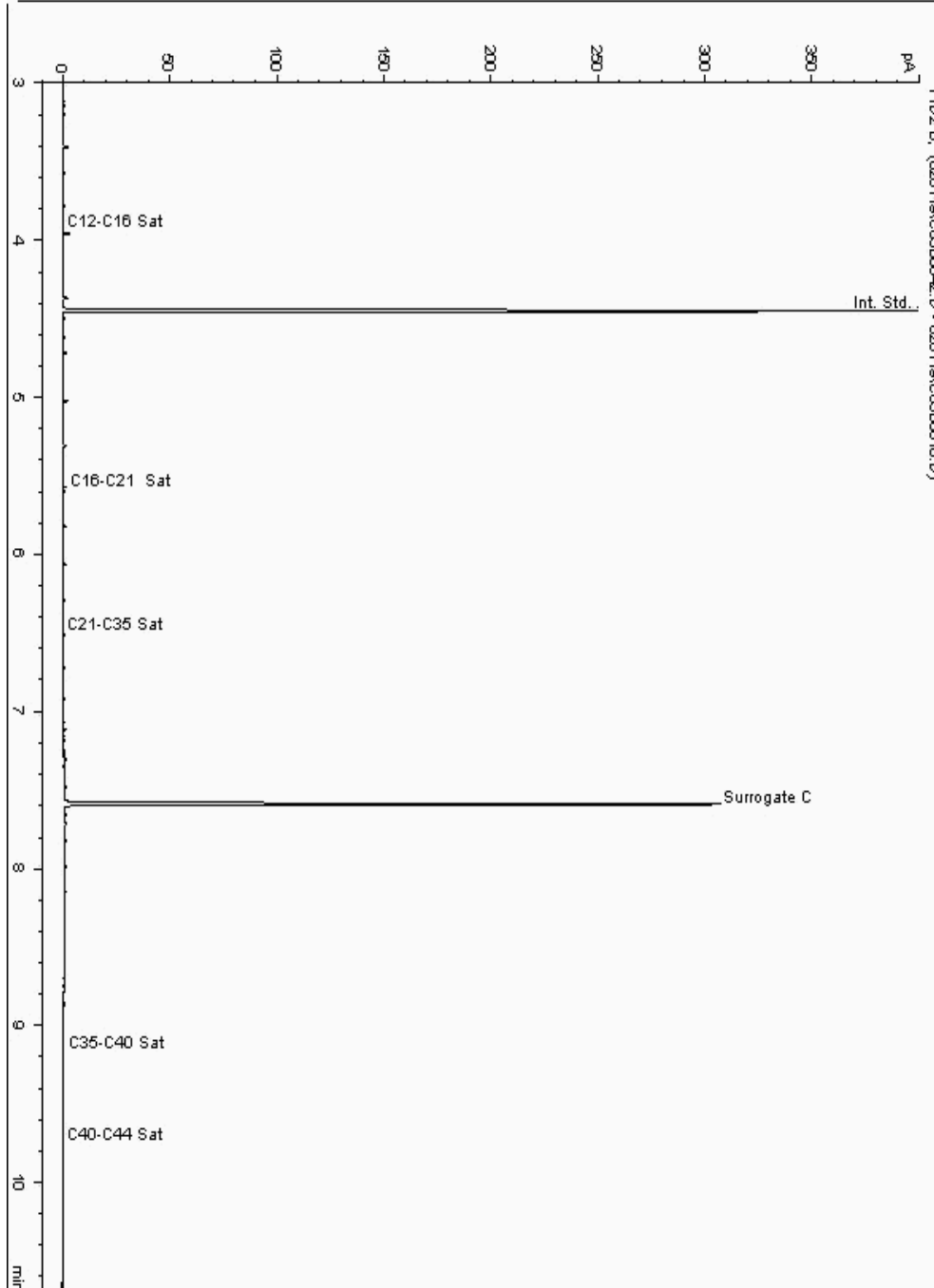
Analysis: EPH CWG (Aliphatic) GC (S)
19208208

Sample No :
Sample ID : BH230

19,208,208Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040195-
Date Acquired : 01/02/2019 22:17:54 PM
Units : ppb
Dilution: BH230[16.00 - 17.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

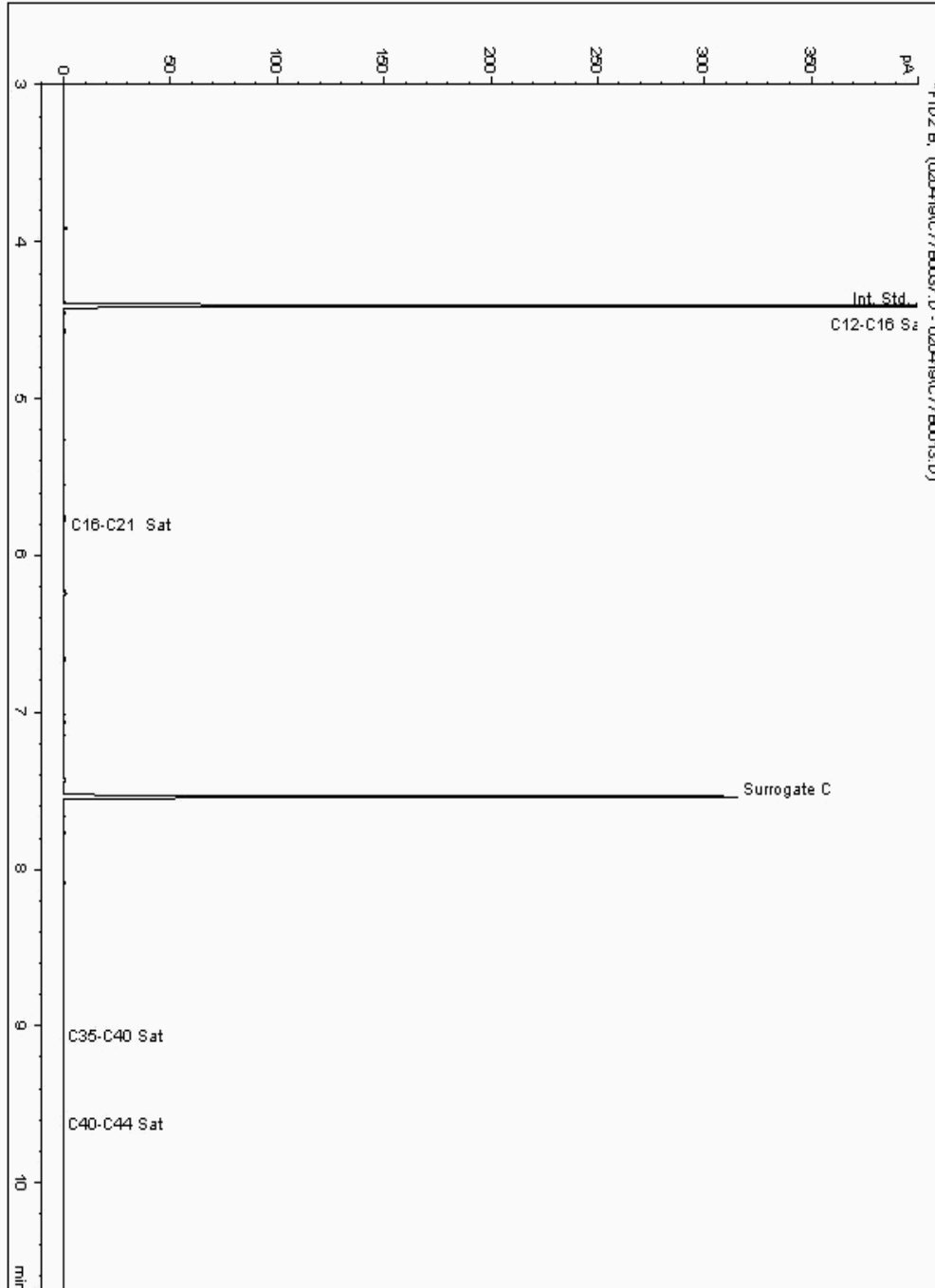
Analysis: EPH CWG (Aliphatic) GC (S)
19208259

Sample No :
Sample ID : BH231

19,208,259 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040501-
Date Acquired : 04/02/2019 20:49:14 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

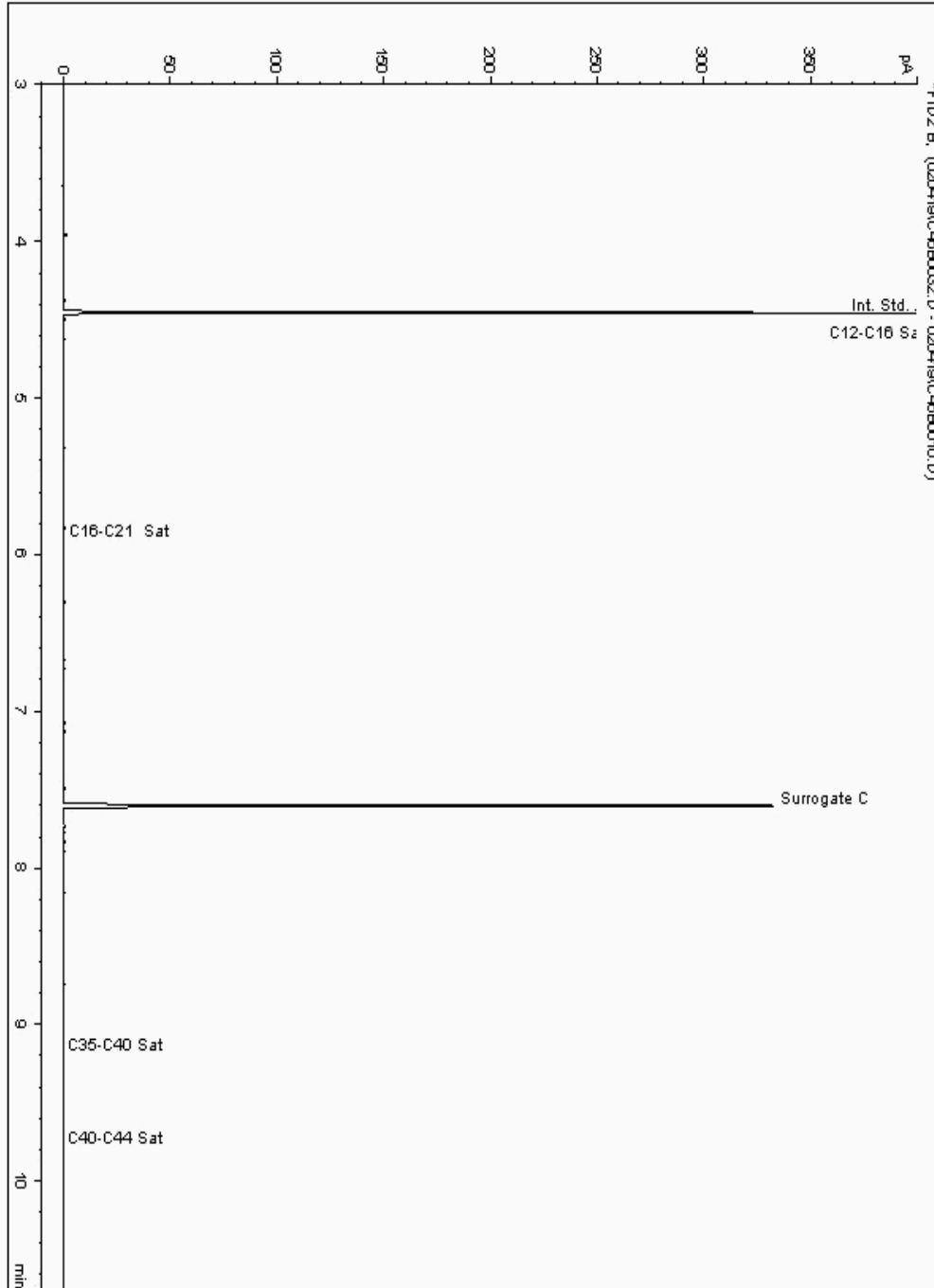
Analysis: EPH CWG (Aliphatic) GC (S)
19208289

Sample No :
Sample ID : BH230

19,208,289Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040143-
Date Acquired : 04/02/2019 21:14:31 PM
Units : ppb
Dilution: BH230[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

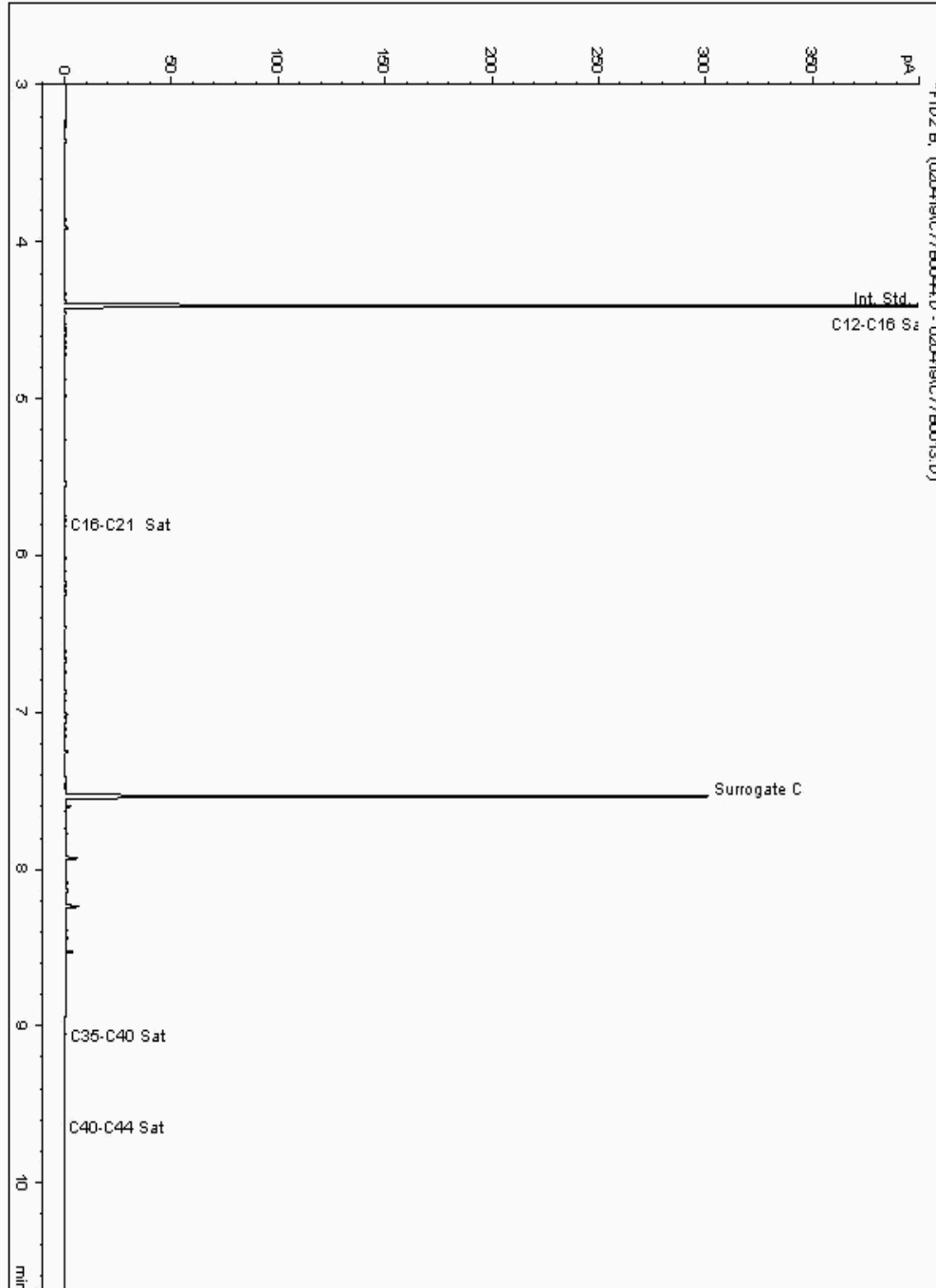
Analysis: EPH CWG (Aliphatic) GC (S)
19208342

Sample No :
Sample ID : BH237

19,208,342 Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041028-
Date Acquired : 04/02/2019 22:52:56 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

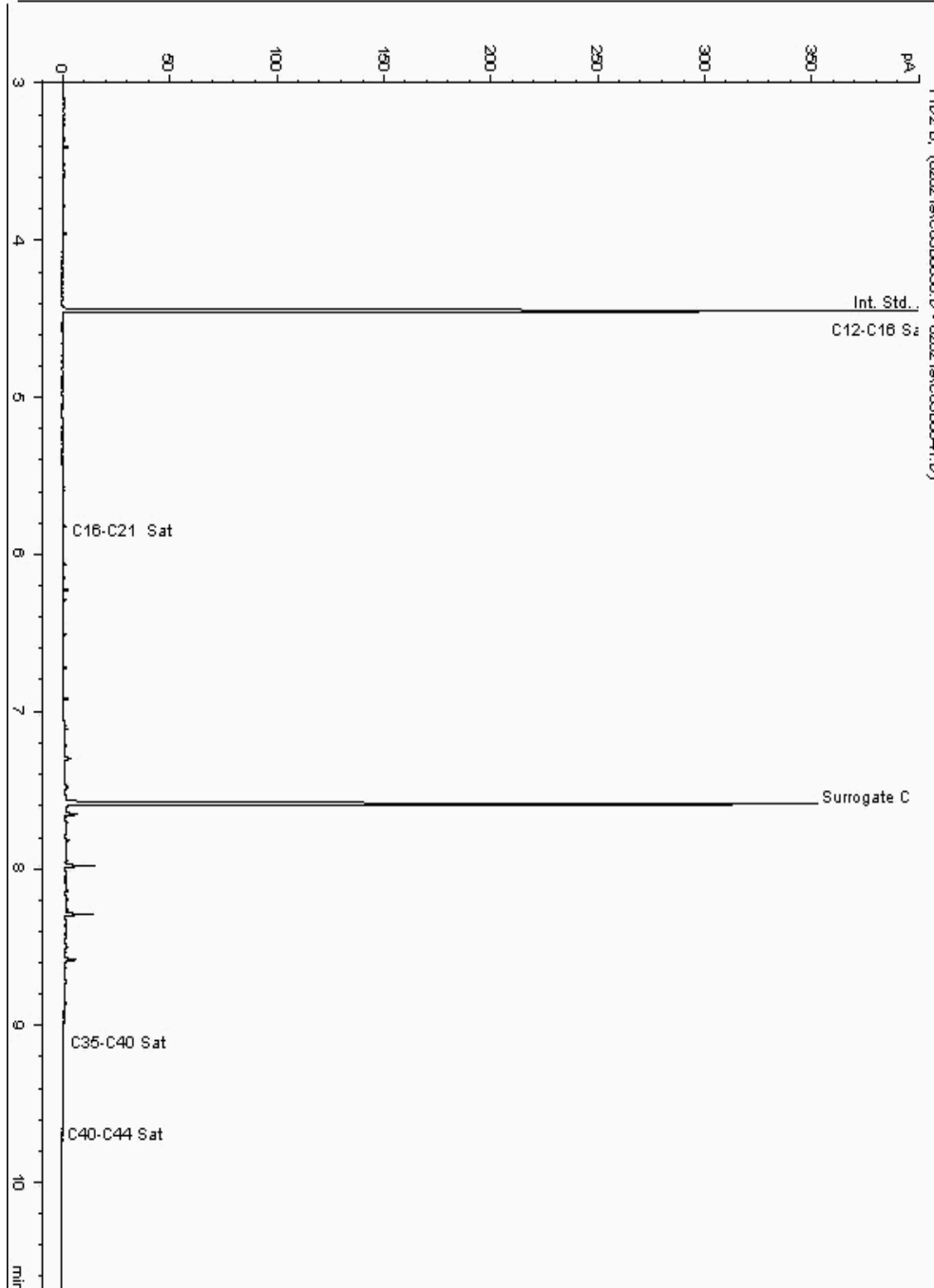
Analysis: EPH CWG (Aliphatic) GC (S)
19208357

Sample No :
Sample ID : BH230

19,208,357Depth :2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18039873-
Date Acquired : 04/02/2019 13:16:18 PM
Units : ppb
Dilution: BH230[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

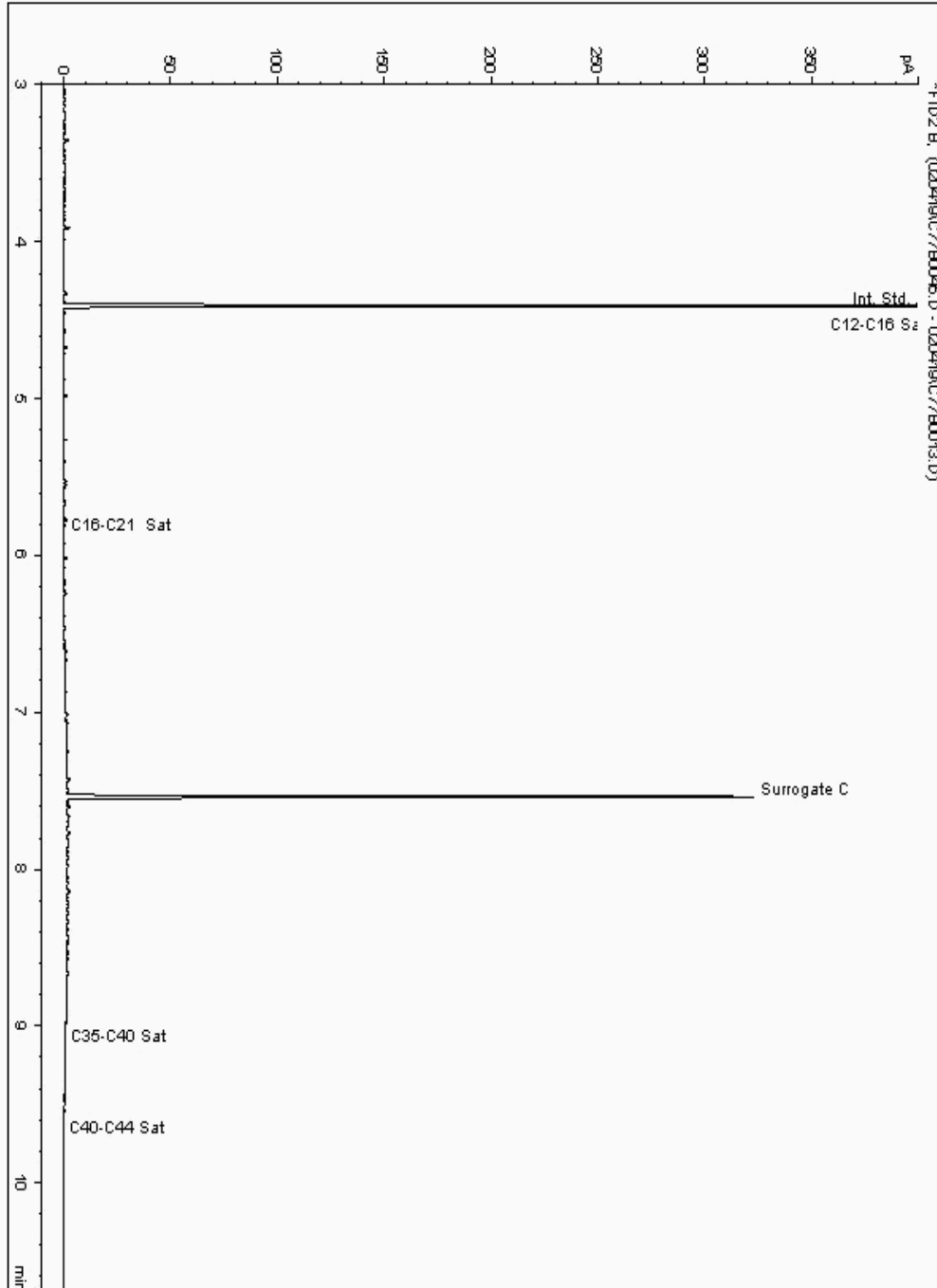
Analysis: EPH CWG (Aliphatic) GC (S)
19208369

Sample No :
Sample ID : BH231

19,208,369 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040524-
Date Acquired : 04/02/2019 23:13:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

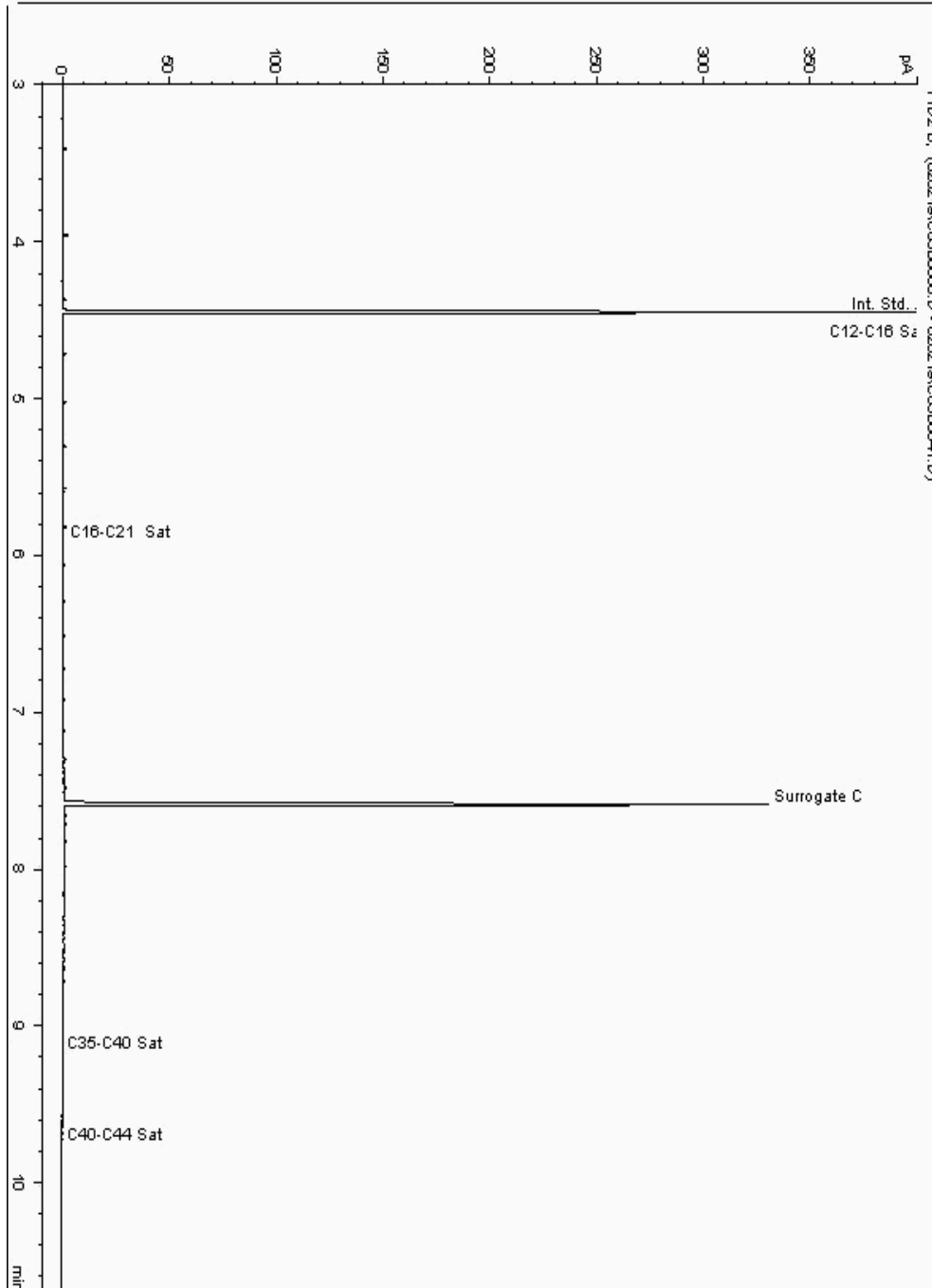
Analysis: EPH CWG (Aliphatic) GC (S)
19208454

Sample No :
Sample ID : BH230

19,208,454 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040170-
Date Acquired : 04/02/2019 18:22:39 PM
Units : ppb
Dilution: BH230[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

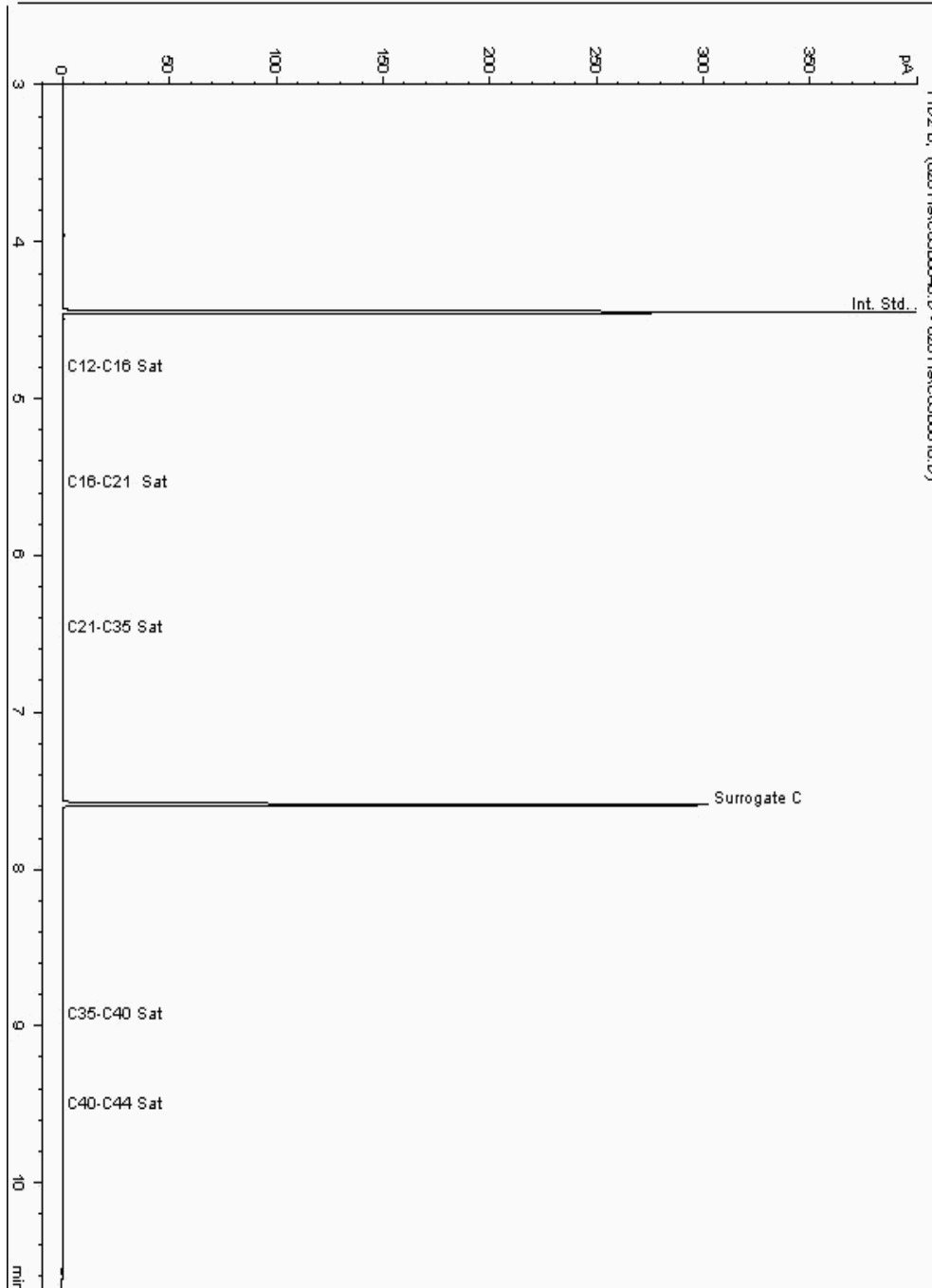
Analysis: EPH CWG (Aliphatic) GC (S)
19208496

Sample No :
Sample ID : BH238

19,208,496Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041534-
Date Acquired : 01/02/2019 23:11:03 PM
Units : ppb
Dilution: BH238[12.00 - 13.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

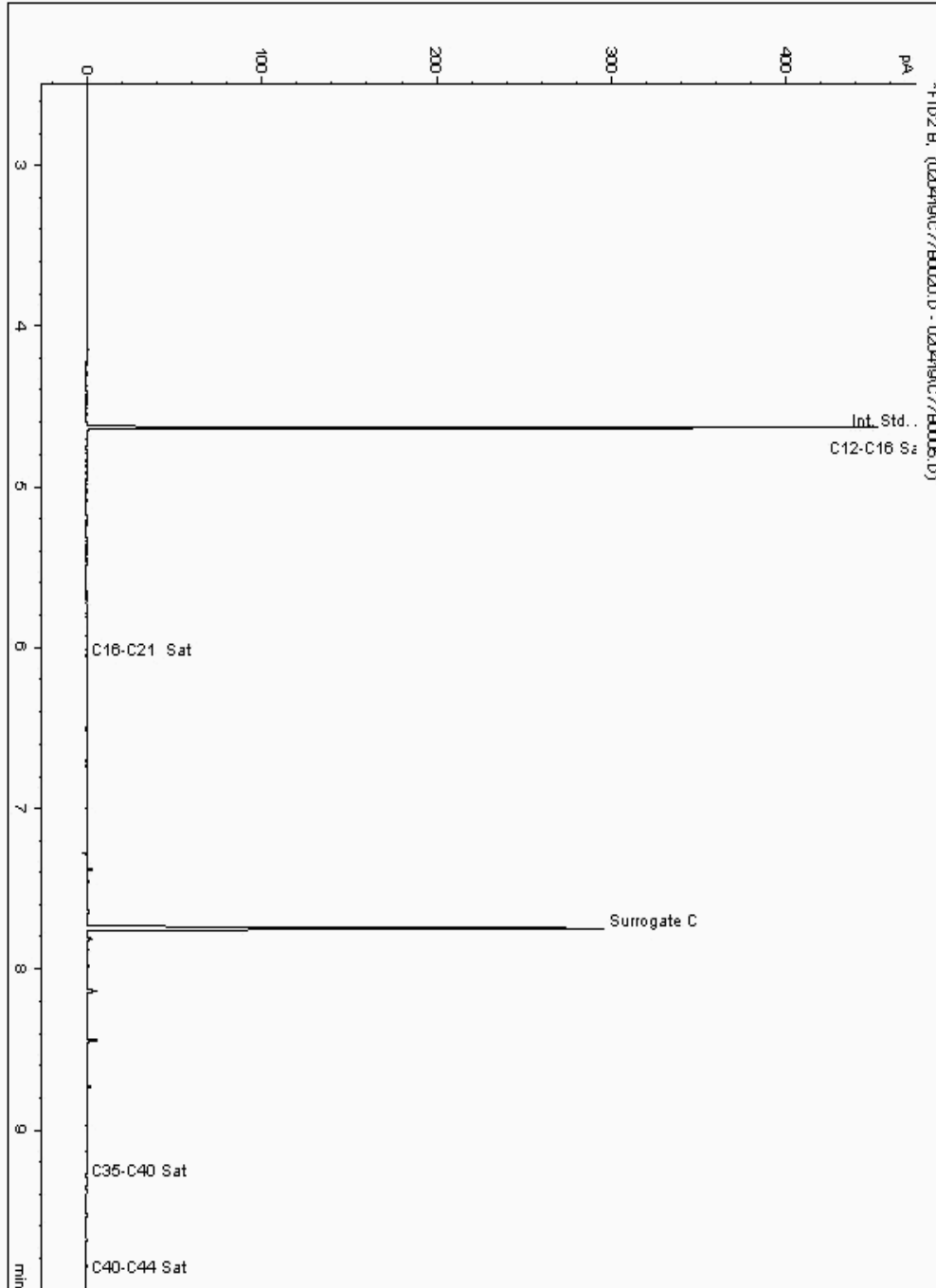
Analysis: EPH CWG (Aliphatic) GC (S)
19208531

Sample No :
Sample ID : BH230

19,208,531 Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18039899-
Date Acquired : 2/4/2019 3:11:02 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

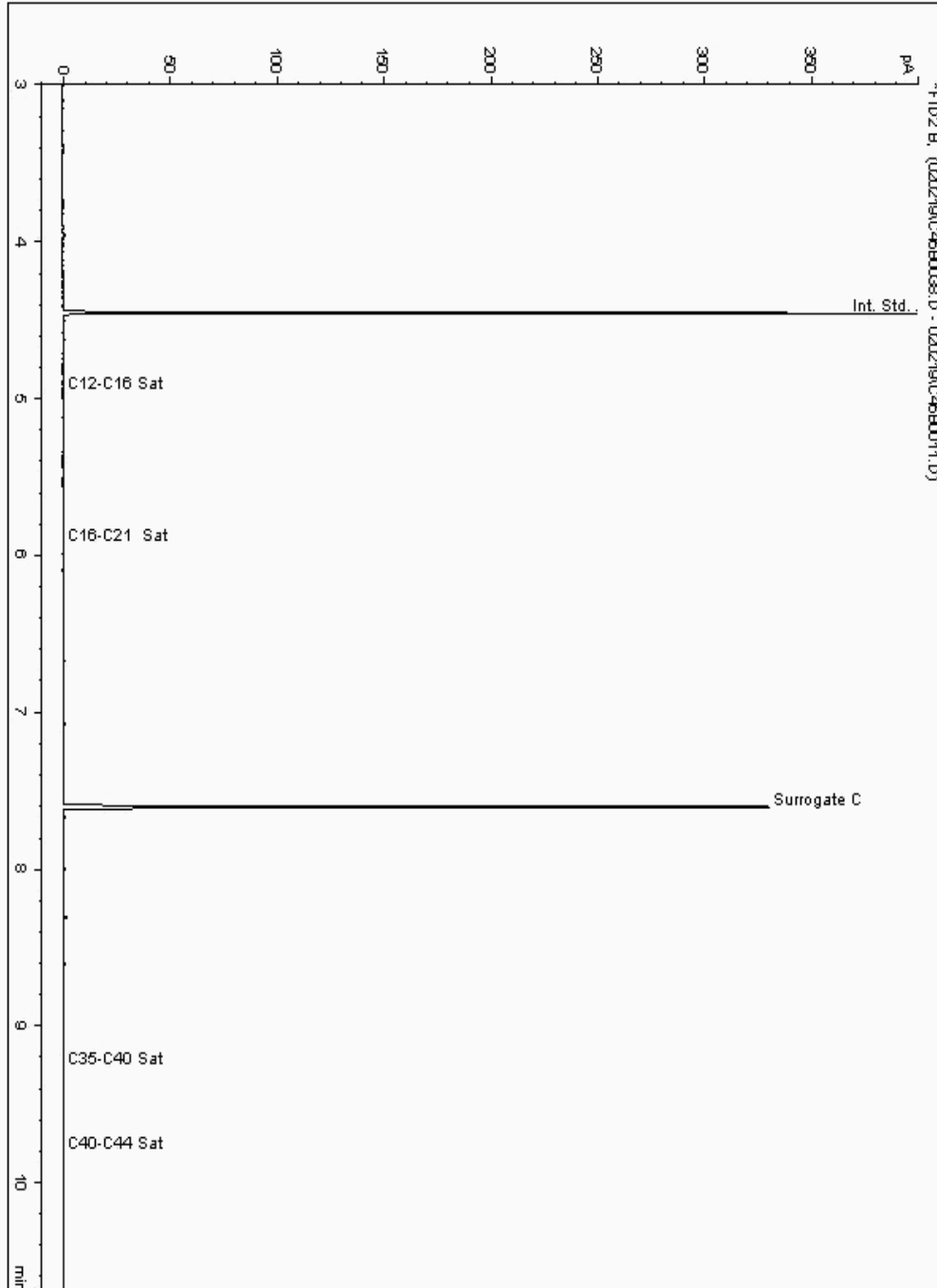
Analysis: EPH CWG (Aliphatic) GC (S)
19208548

Sample No :
Sample ID : BH237

19,208,548 Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041091-
Date Acquired : 02/02/2019 19:59:10 PM
Units : ppb
Dilution: BH237[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

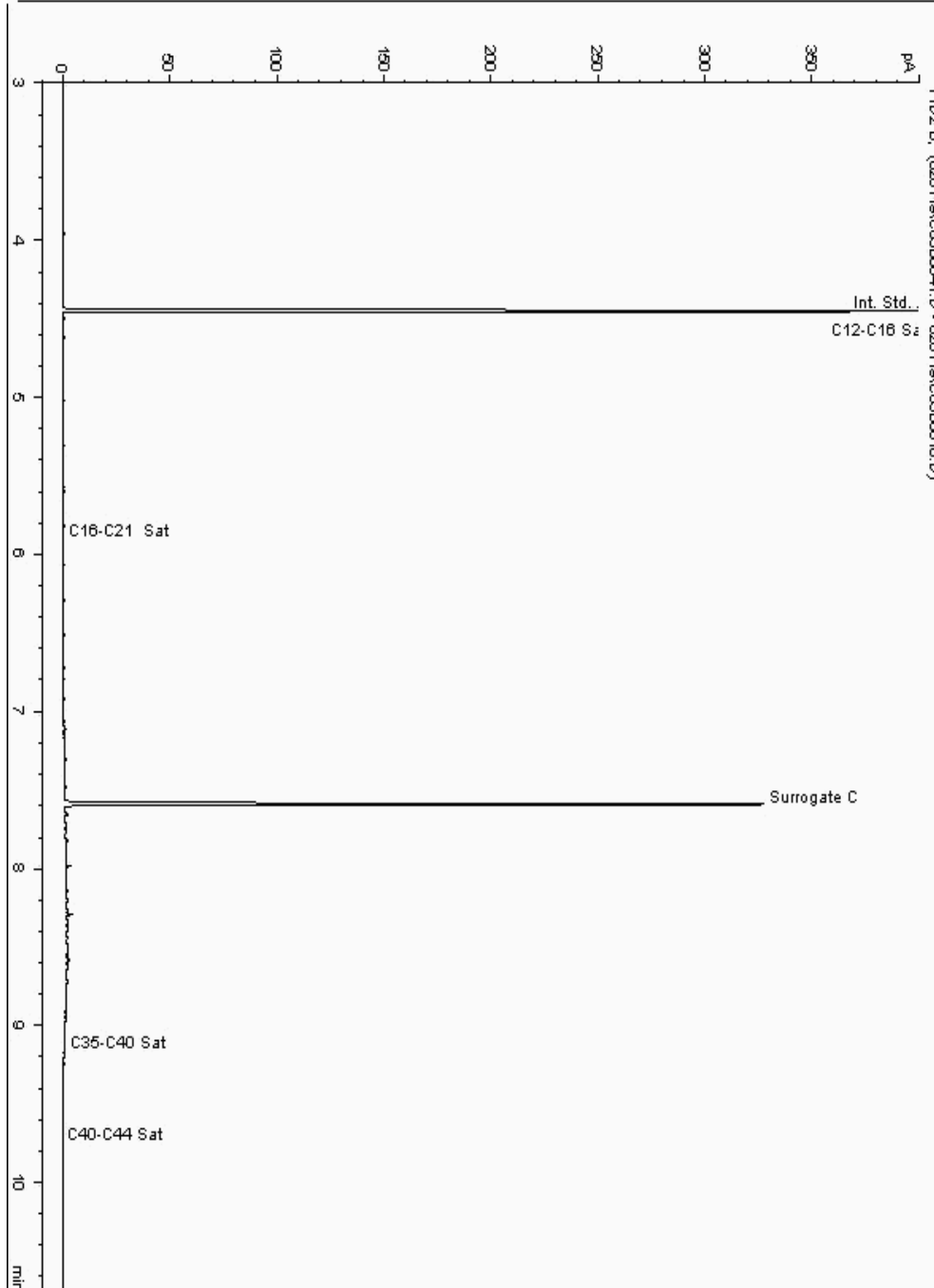
Analysis: EPH CWG (Aliphatic) GC (S)
19208632

Sample No :
Sample ID : BH230

19,208,632Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18039741-
Date Acquired : 01/02/2019 21:57:28 PM
Units : ppb
Dilution: BH230[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

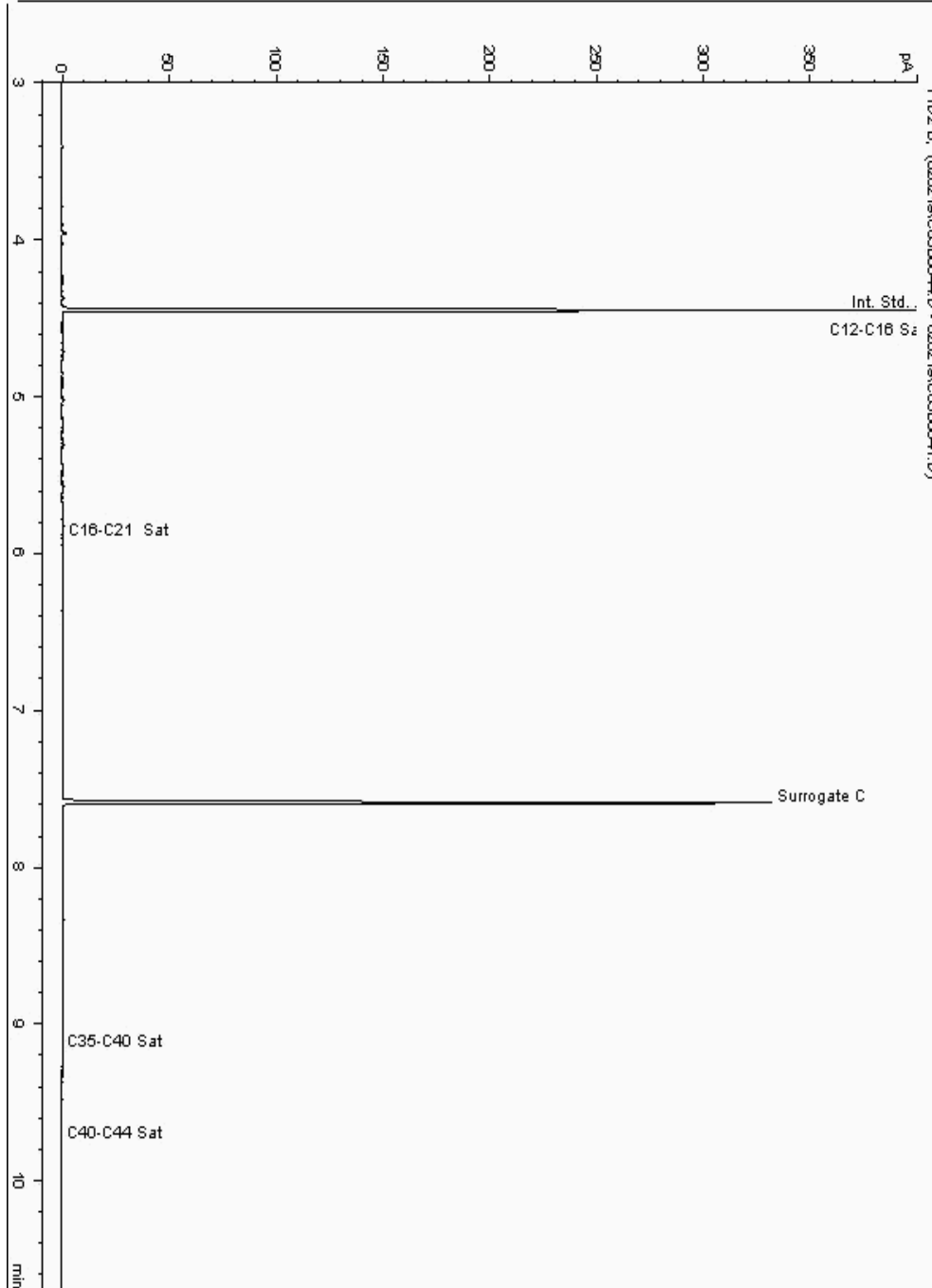
Analysis: EPH CWG (Aliphatic) GC (S)
19208634

Sample No :
Sample ID : BH238

19,208,634 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041591-
Date Acquired : 04/02/2019 11:21:59 PM
Units : ppb
Dilution: BH238[14.00 - 15.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

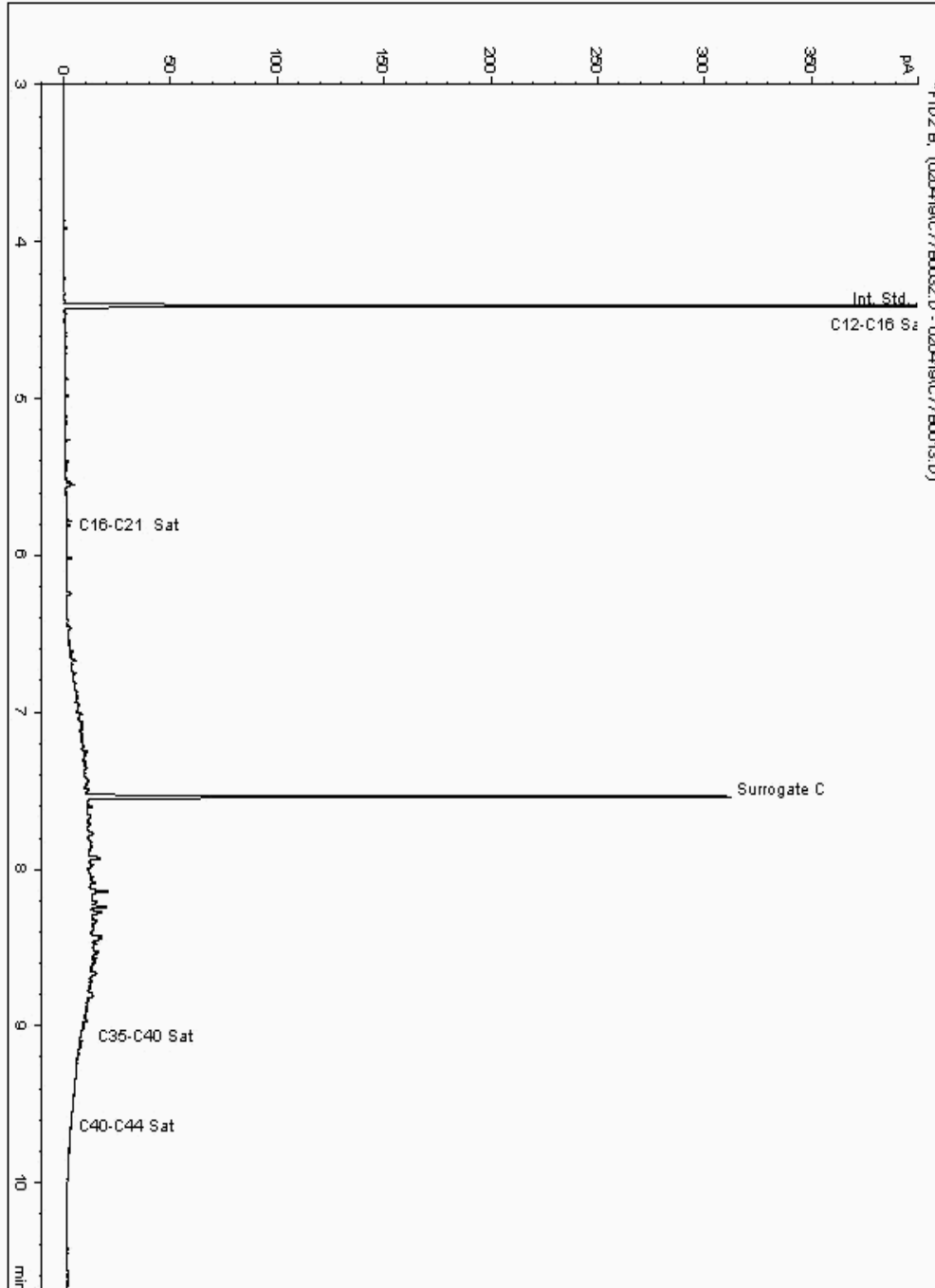
Analysis: EPH CWG (Aliphatic) GC (S)
19208677

Sample No :
Sample ID : BH236

19,208,677Depth :0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040571-
Date Acquired : 04/02/2019 19:16:46 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

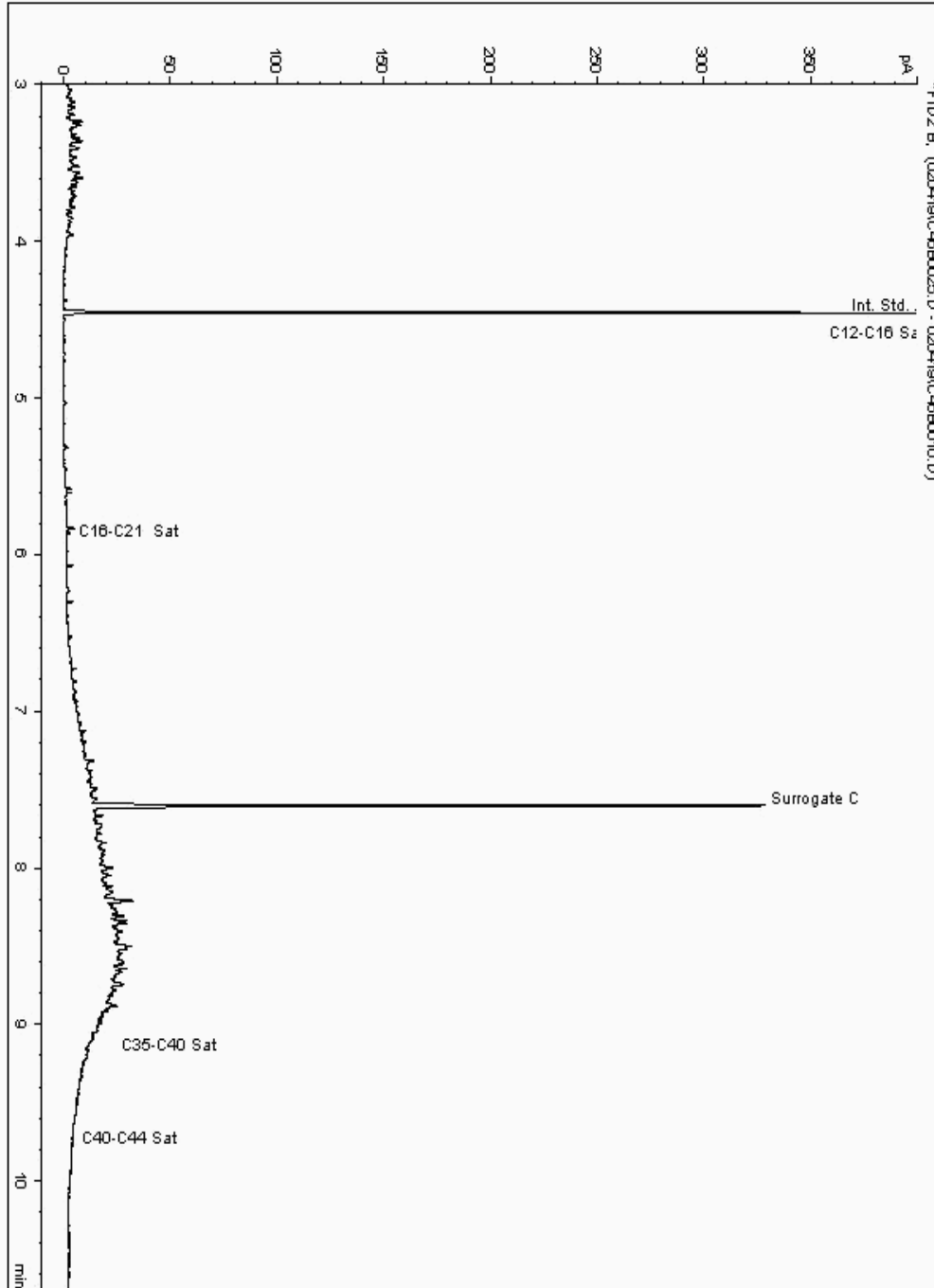
Analysis: EPH CWG (Aliphatic) GC (S)
19208688

Sample No :
Sample ID : BH230

19,208,688Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18039777-
Date Acquired : 04/02/2019 19:01:30 PM
Units : ppb
Dilution: BH230[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

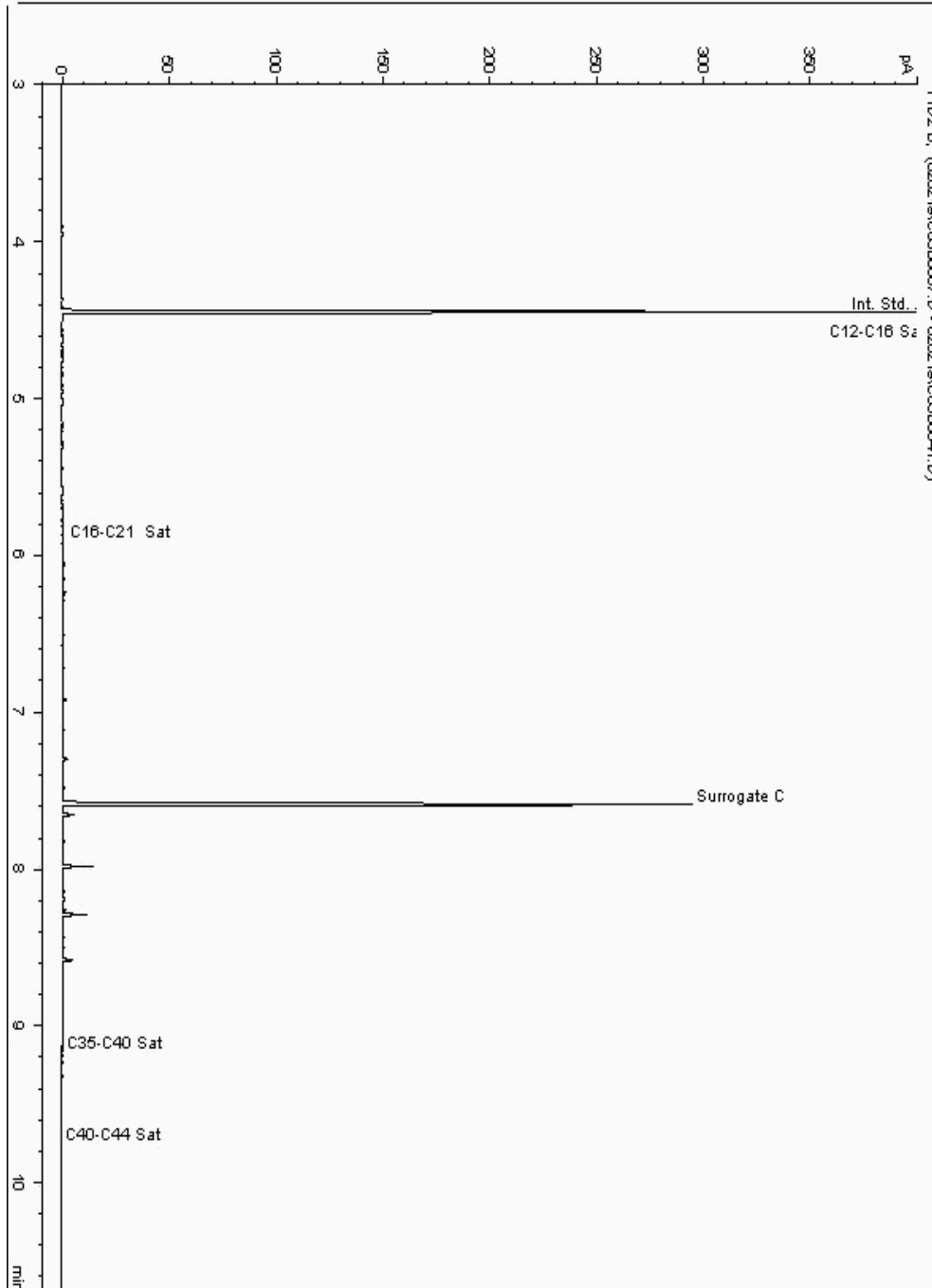
Analysis: EPH CWG (Aliphatic) GC (S)
19208723

Sample No :
Sample ID : BH237

19,208,723 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040937-
Date Acquired : 04/02/2019 18:42:58 PM
Units : ppb
Dilution: BH237[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

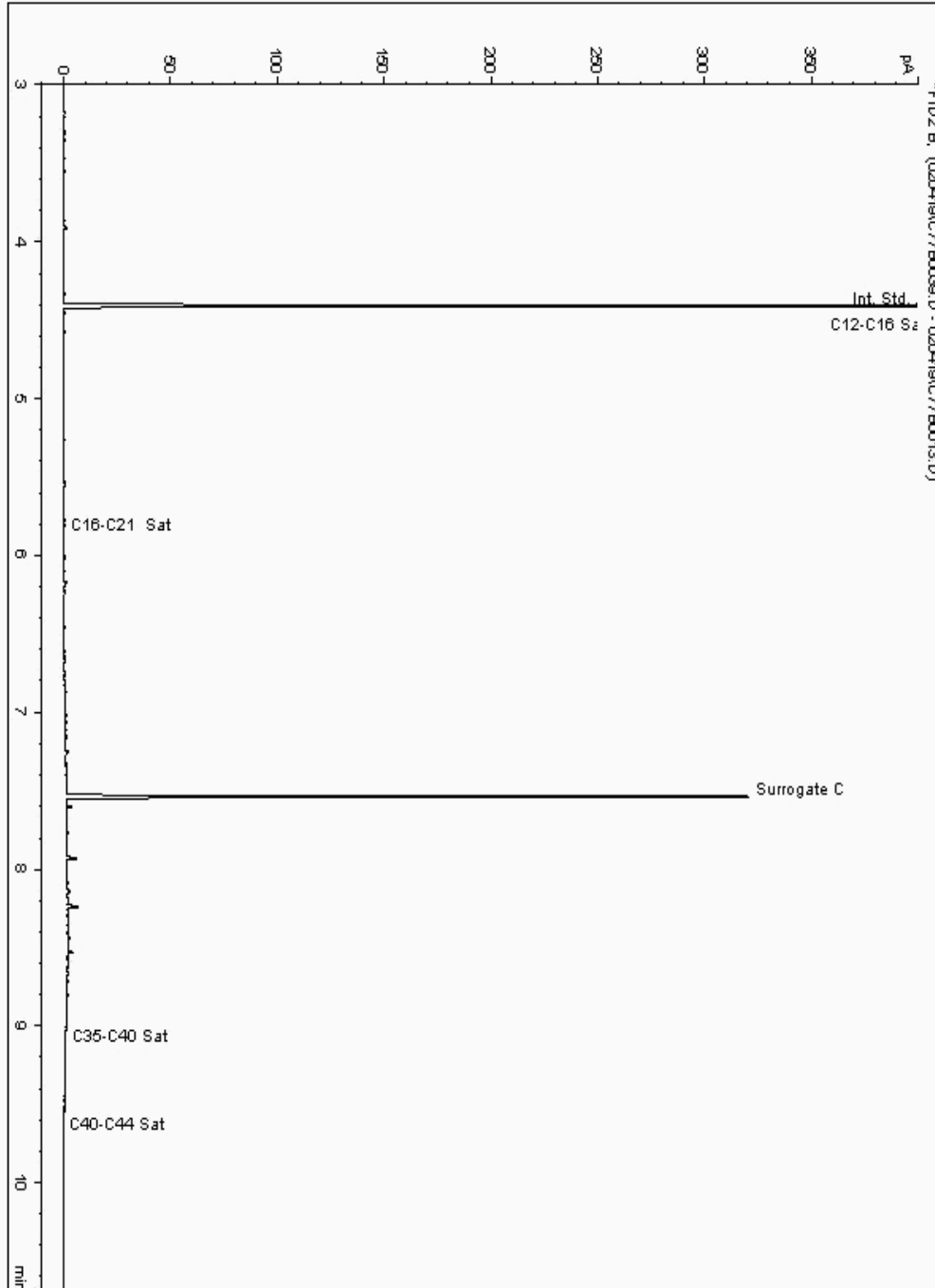
Analysis: EPH CWG (Aliphatic) GC (S)
19208744

Sample No :
Sample ID : BH230

19,208,744 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18039829-
Date Acquired : 04/02/2019 21:29:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

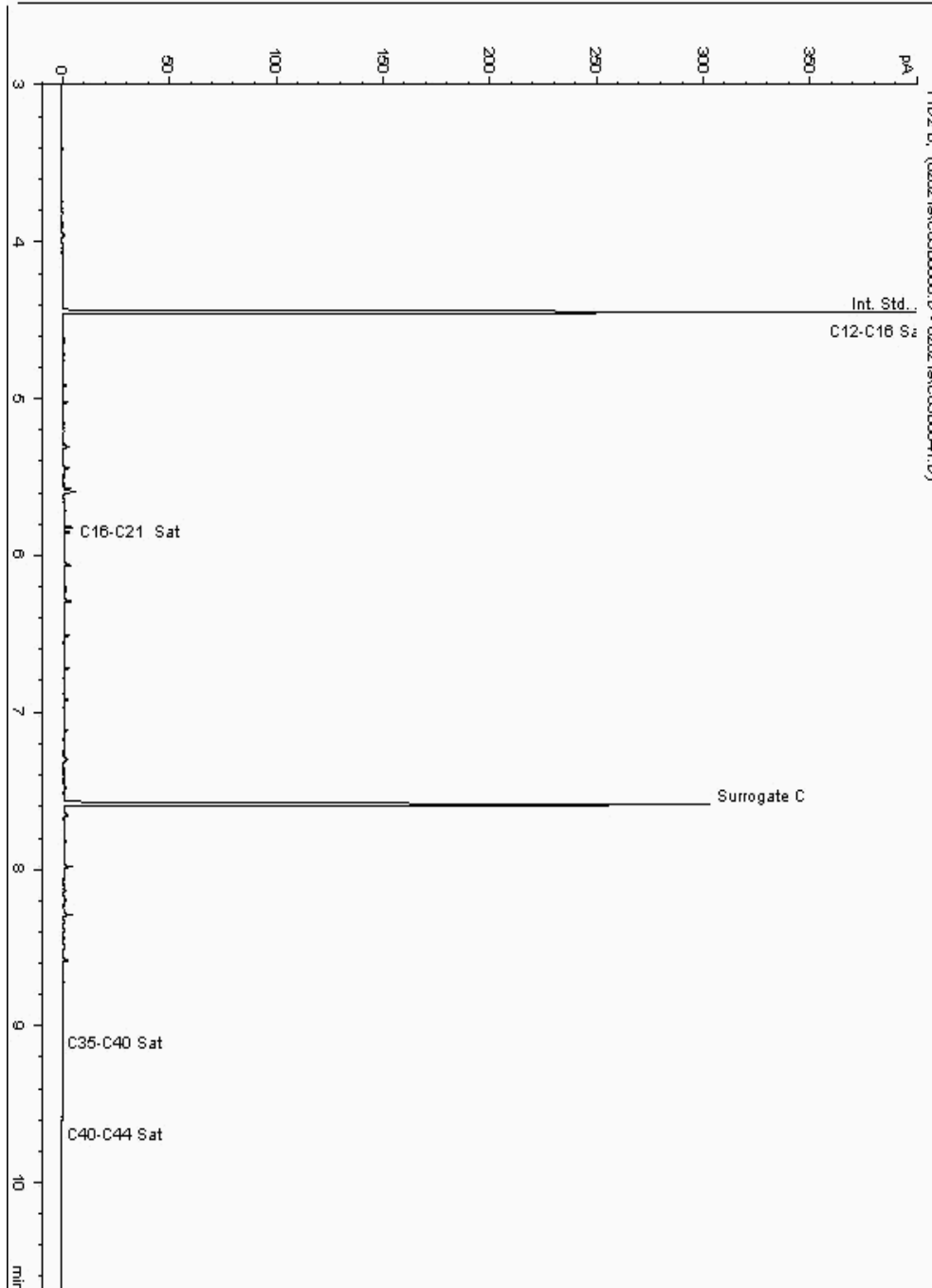
Analysis: EPH CWG (Aliphatic) GC (S)
19208749

Sample No :
Sample ID : BH236

19,208,749 Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040547-
Date Acquired : 04/02/2019 16:36:45 PM
Units : ppb
Dilution: BH236[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

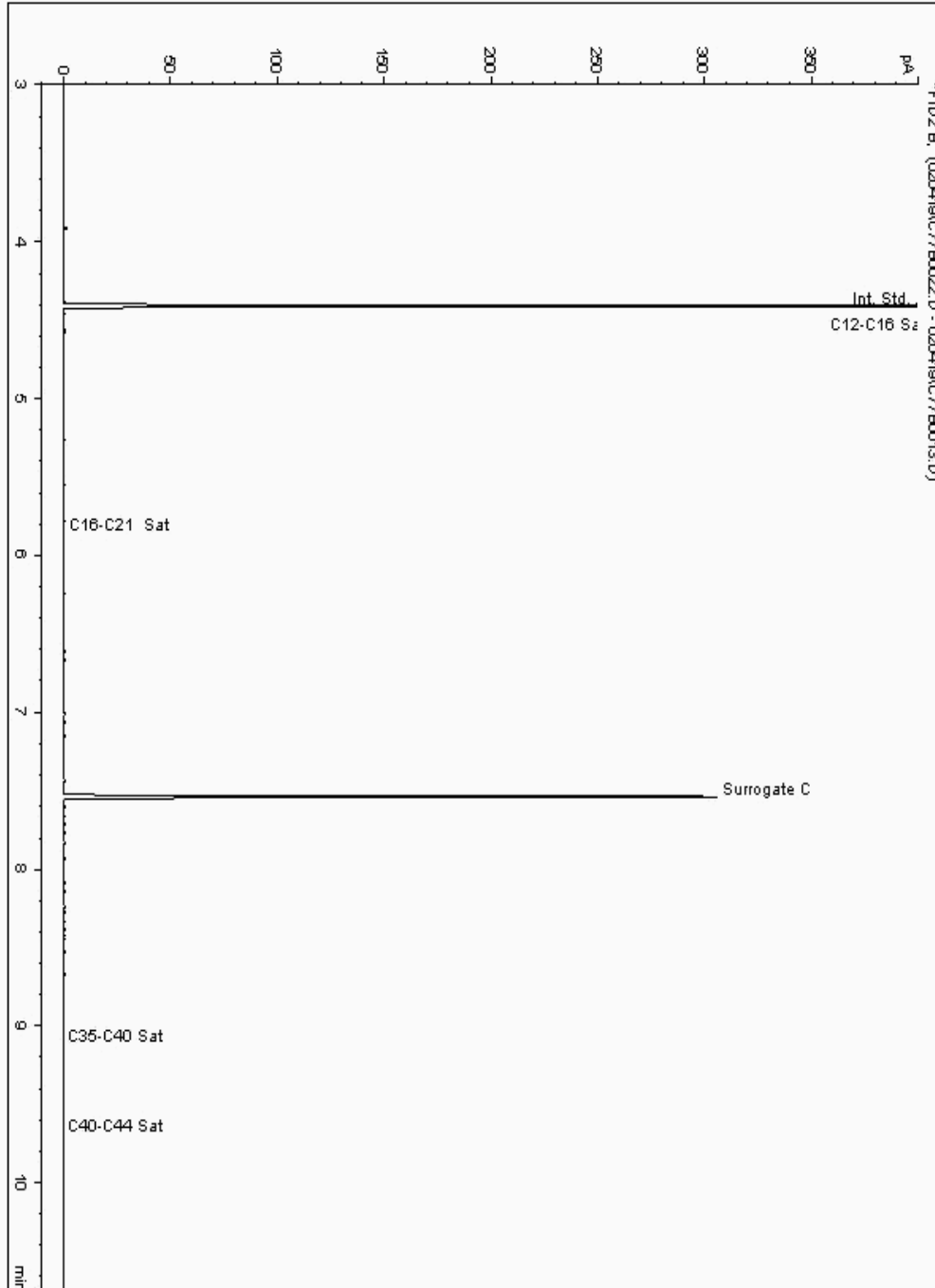
Analysis: EPH CWG (Aliphatic) GC (S)
19208794

Sample No :
Sample ID : BH237

19,208,794 Depth : 8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041144-
Date Acquired : 04/02/2019 16:35:51 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

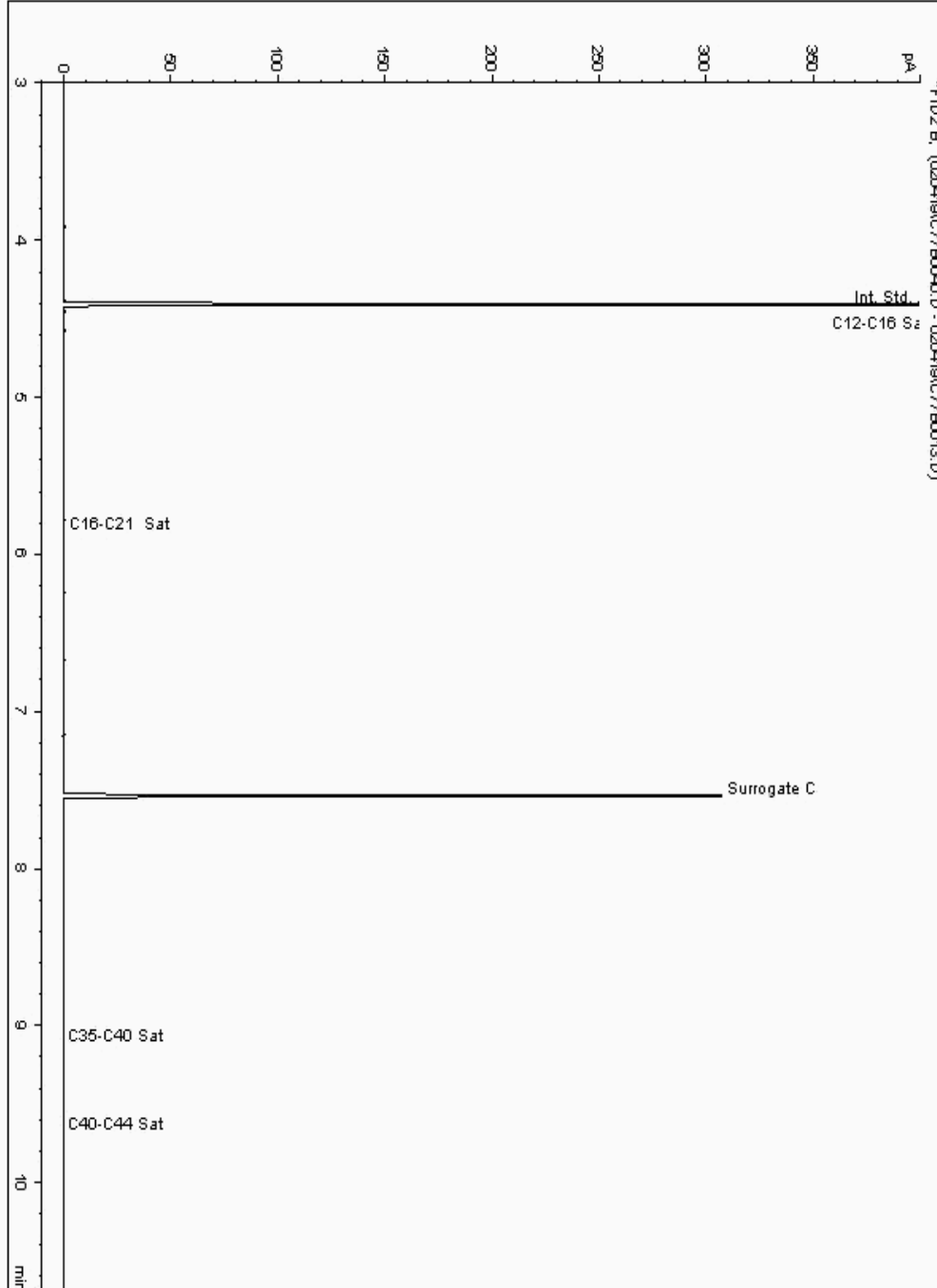
Analysis: EPH CWG (Aliphatic) GC (S)
19208804

Sample No :
Sample ID : BH238

19,208,804 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041511-
Date Acquired : 04/02/2019 21:49:11 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

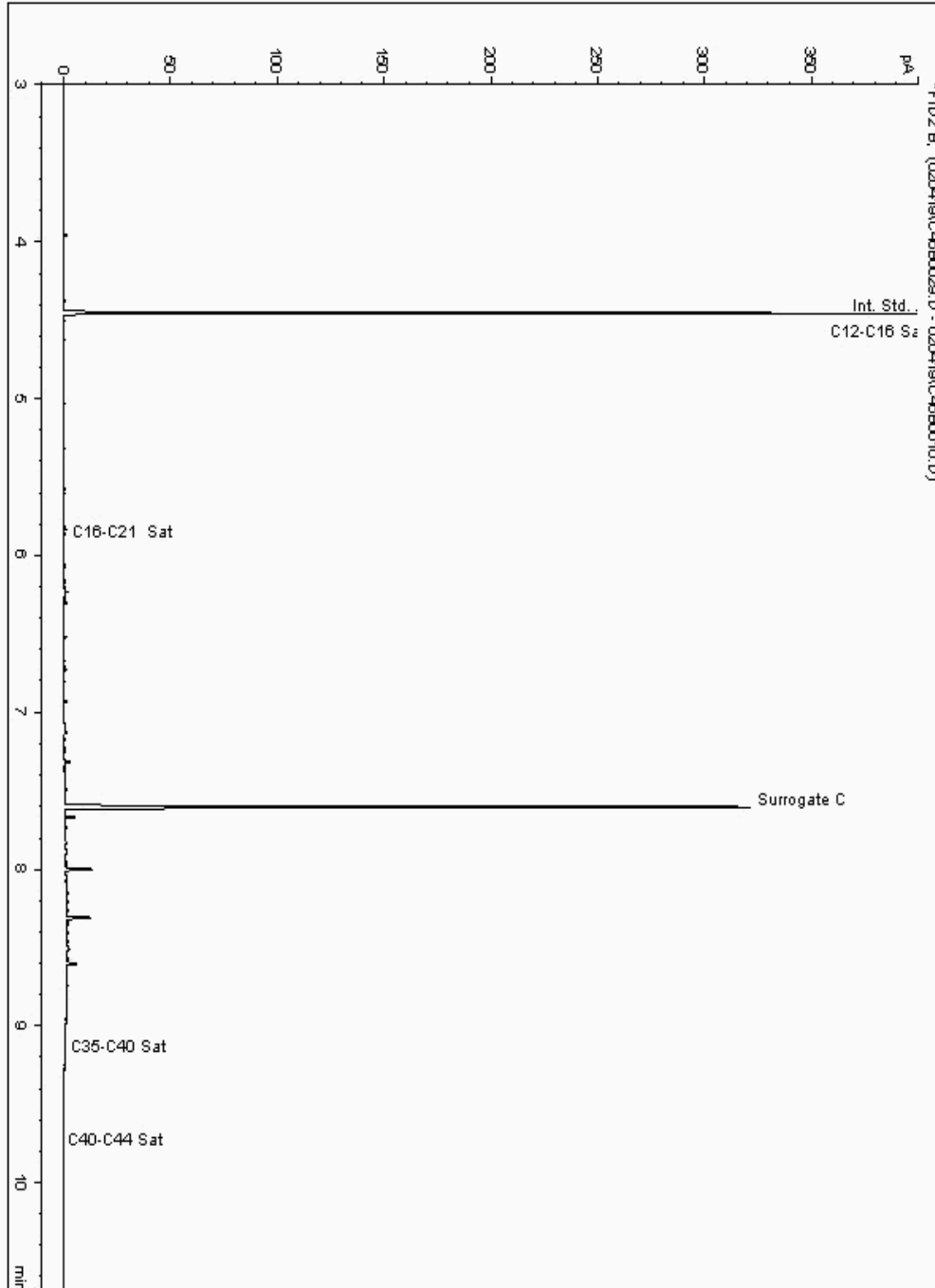
Analysis: EPH CWG (Aliphatic) GC (S)
19208896

Sample No :
Sample ID : BH236

19,208,896Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040619-
Date Acquired : 04/02/2019 20:22:06 PM
Units : ppb
Dilution: BH236[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

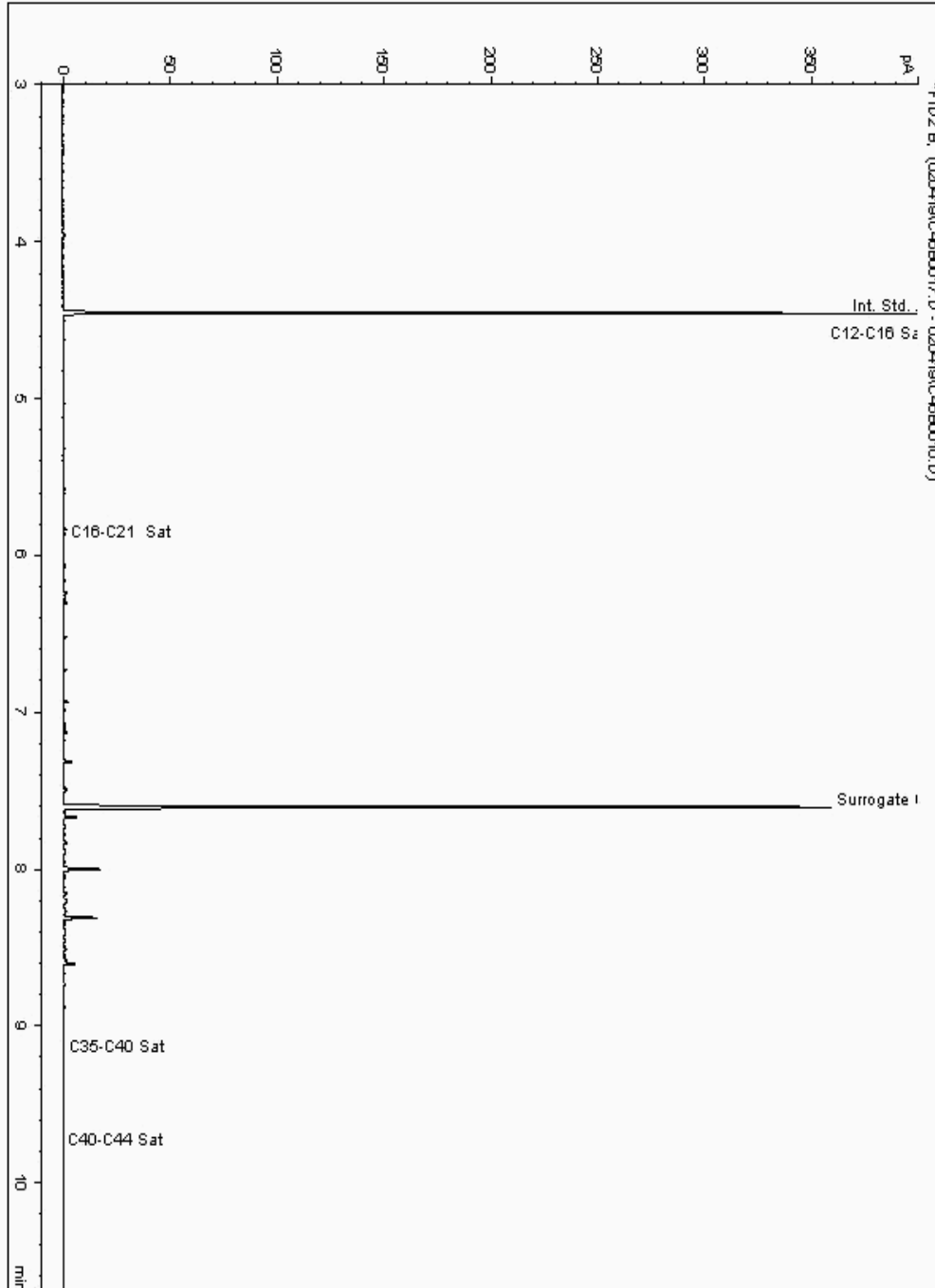
Analysis: EPH CWG (Aliphatic) GC (S)
19208940

Sample No :
Sample ID : BH237

19,208,940 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040981-
Date Acquired : 04/02/2019 16:36:21 PM
Units : ppb
Dilution: BH237[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

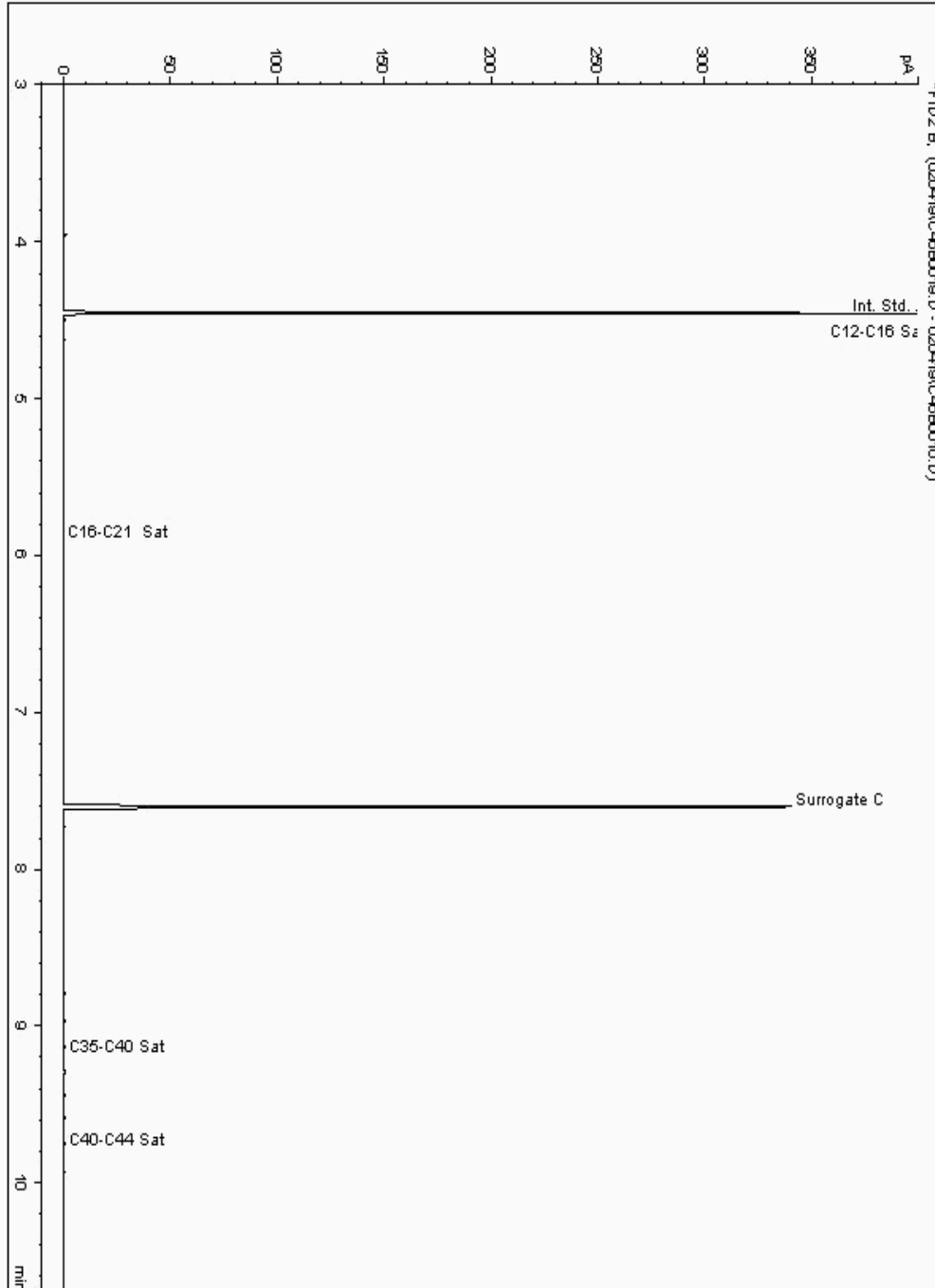
Analysis: EPH CWG (Aliphatic) GC (S)
19208953

Sample No :
Sample ID : BH237

19,208,953 Depth : 9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041187-
Date Acquired : 04/02/2019 17:08:59 PM
Units : ppb
Dilution: BH237[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

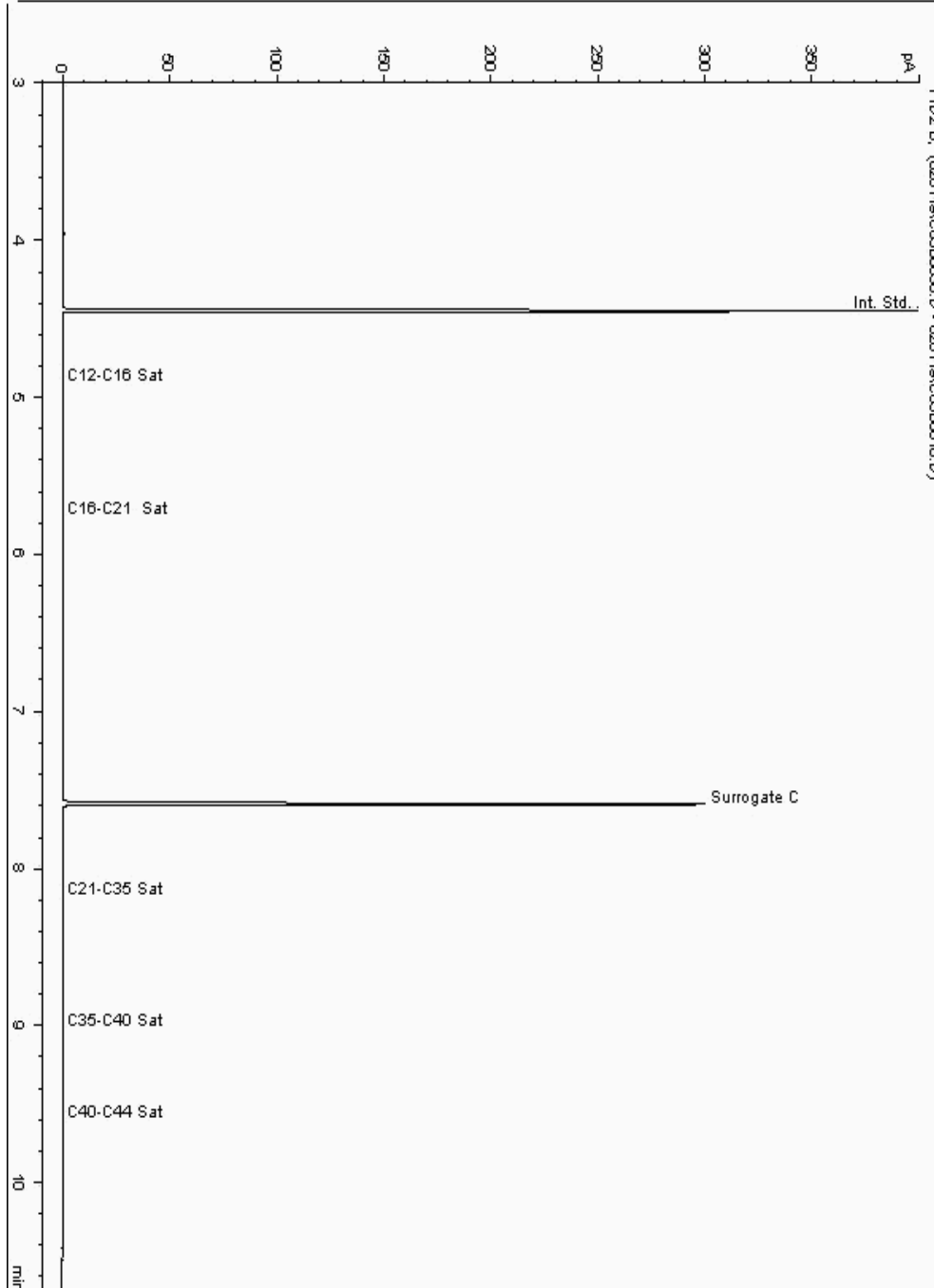
Analysis: EPH CWG (Aliphatic) GC (S)
19208958

Sample No :
Sample ID : BH237

19,208,958 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041214-
Date Acquired : 01/02/2019 20:31:57 PM
Units : ppb
Dilution: BH237[12.00 - 13.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

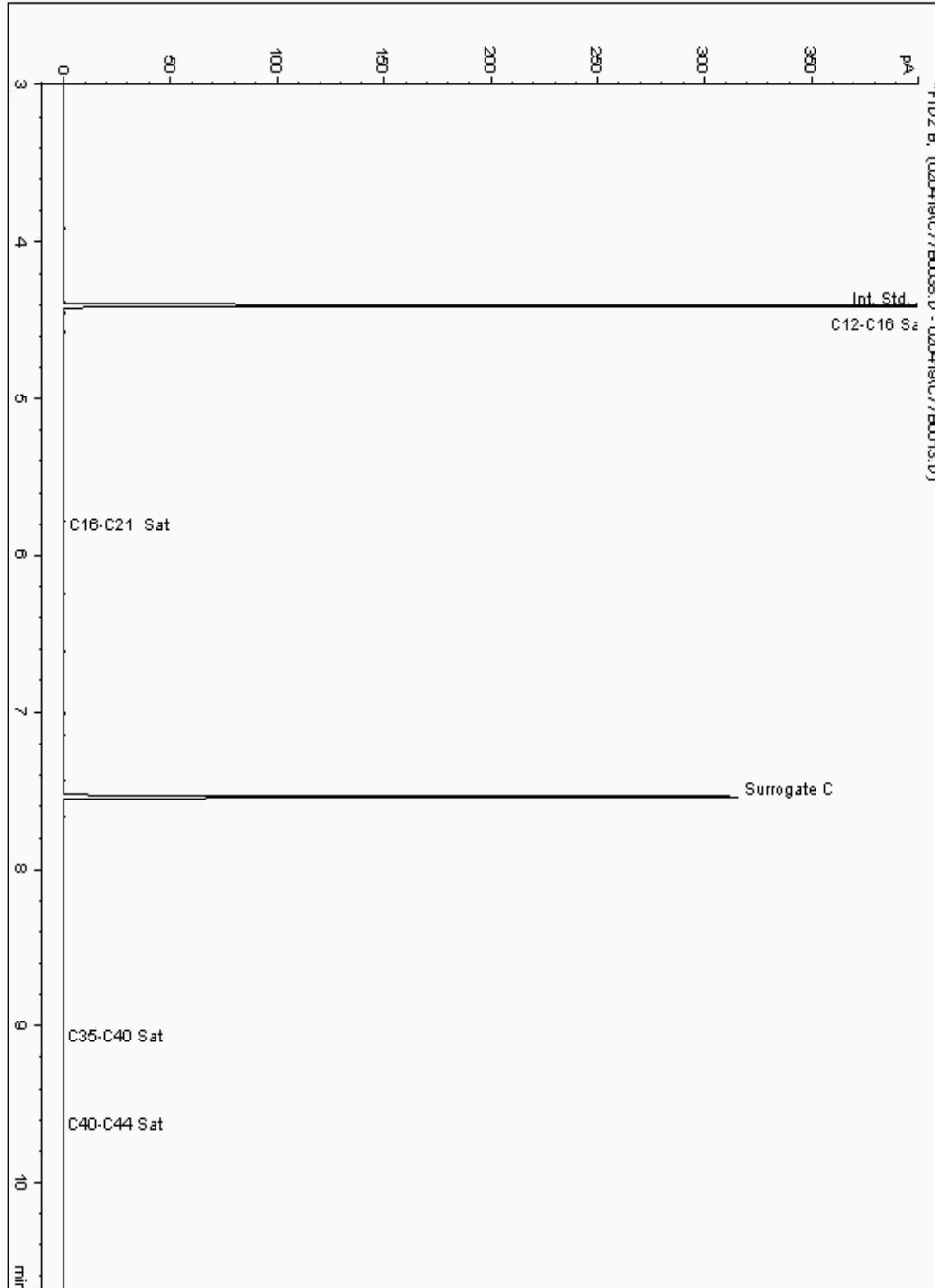
Analysis: EPH CWG (Aliphatic) GC (S)
19209017

Sample No :
Sample ID : BH230

19,209,017 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040062-
Date Acquired : 04/02/2019 21:09:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

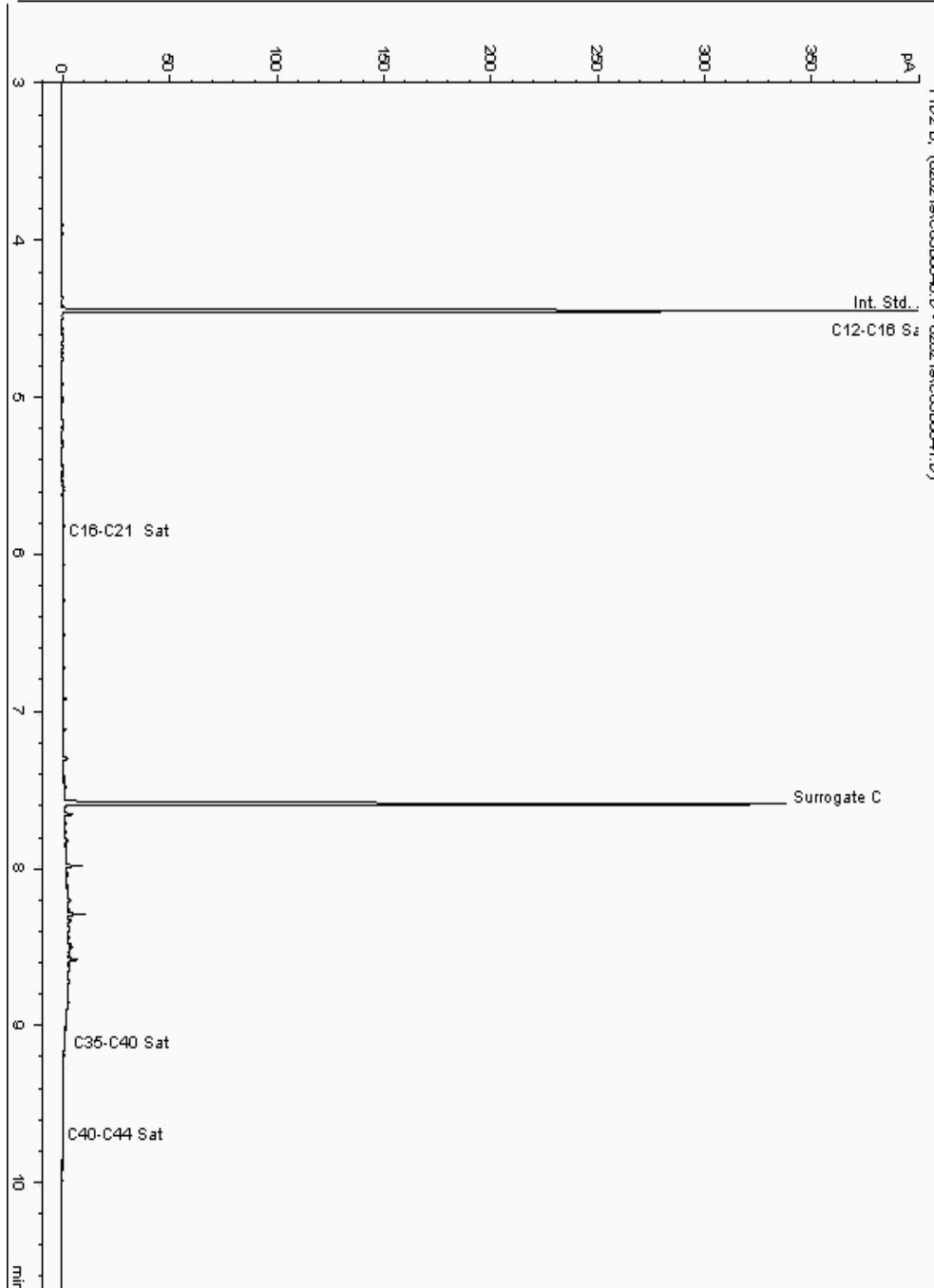
Analysis: EPH CWG (Aliphatic) GC (S)
19209213

Sample No :
Sample ID : BH236

19,209,213 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040596-
Date Acquired : 04/02/2019 12:02:45 PM
Units : ppb
Dilution: BH236[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

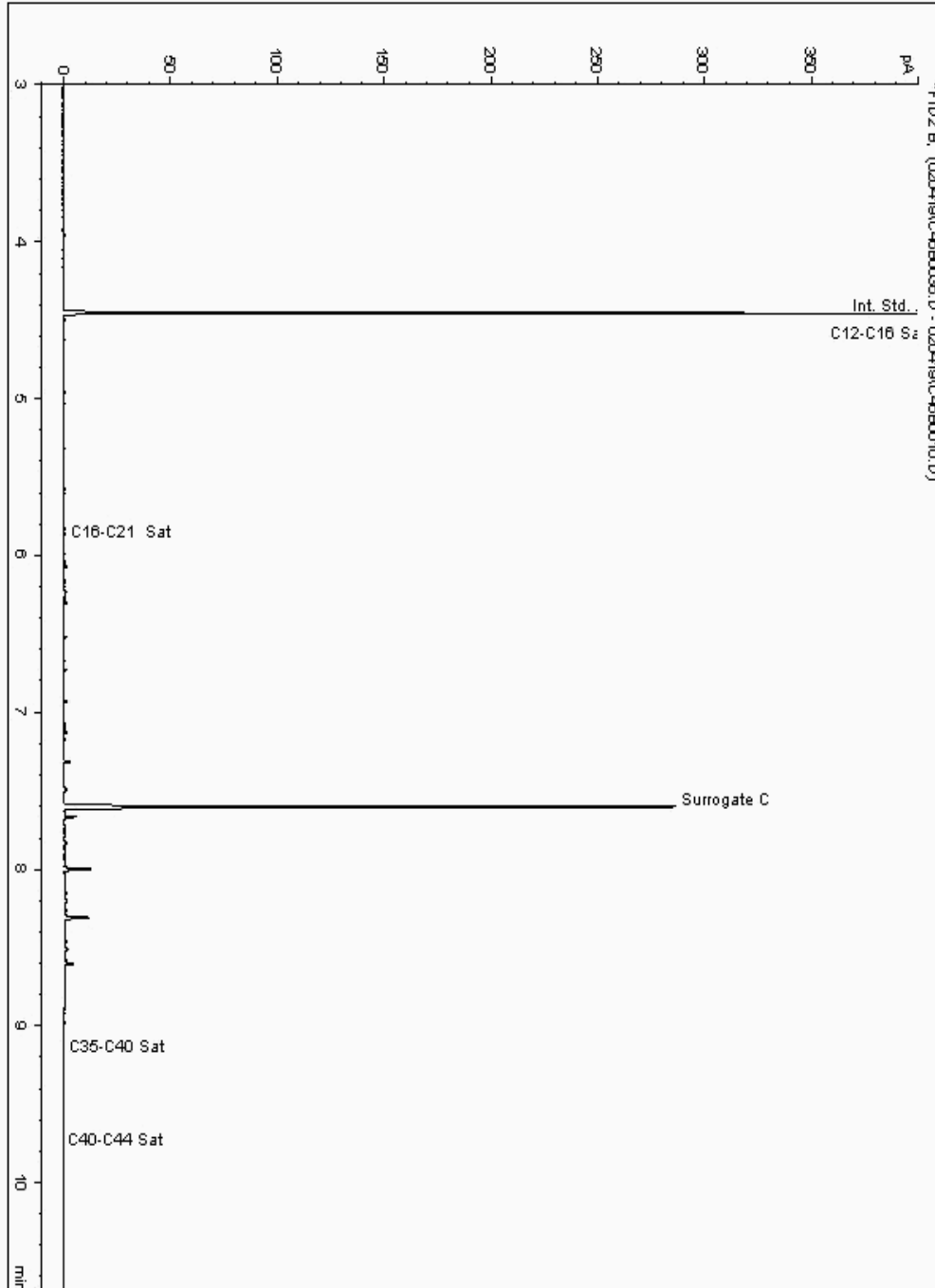
Analysis: EPH CWG (Aliphatic) GC (S)
19209257

Sample No :
Sample ID : BH236

19,209,257 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040642-
Date Acquired : 04/02/2019 22:27:15 PM
Units : ppb
Dilution: BH236[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

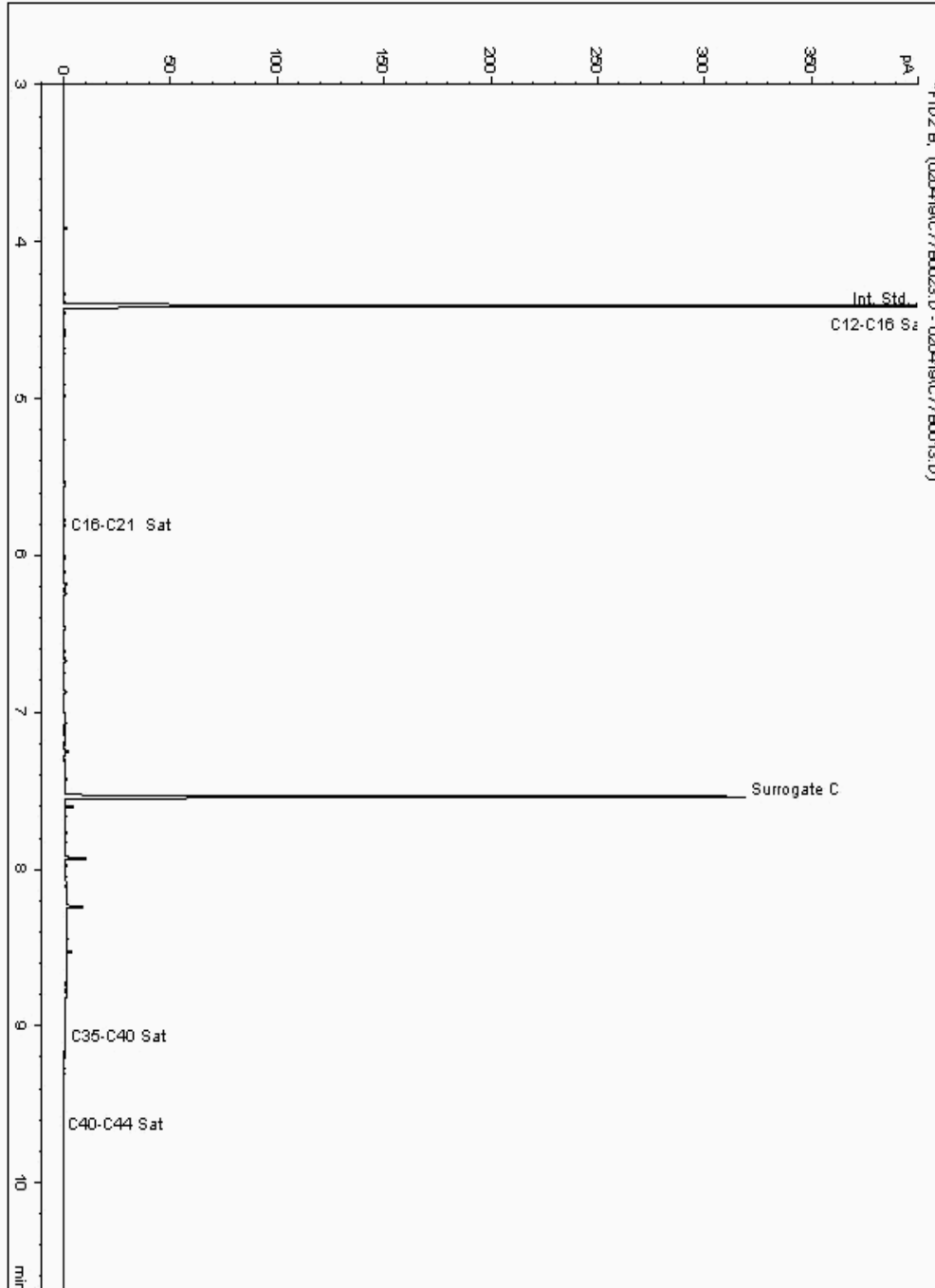
Analysis: EPH CWG (Aliphatic) GC (S)
19209288

Sample No :
Sample ID : BH237

19,209,288Depth :2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040911-
Date Acquired : 04/02/2019 16:56:14 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

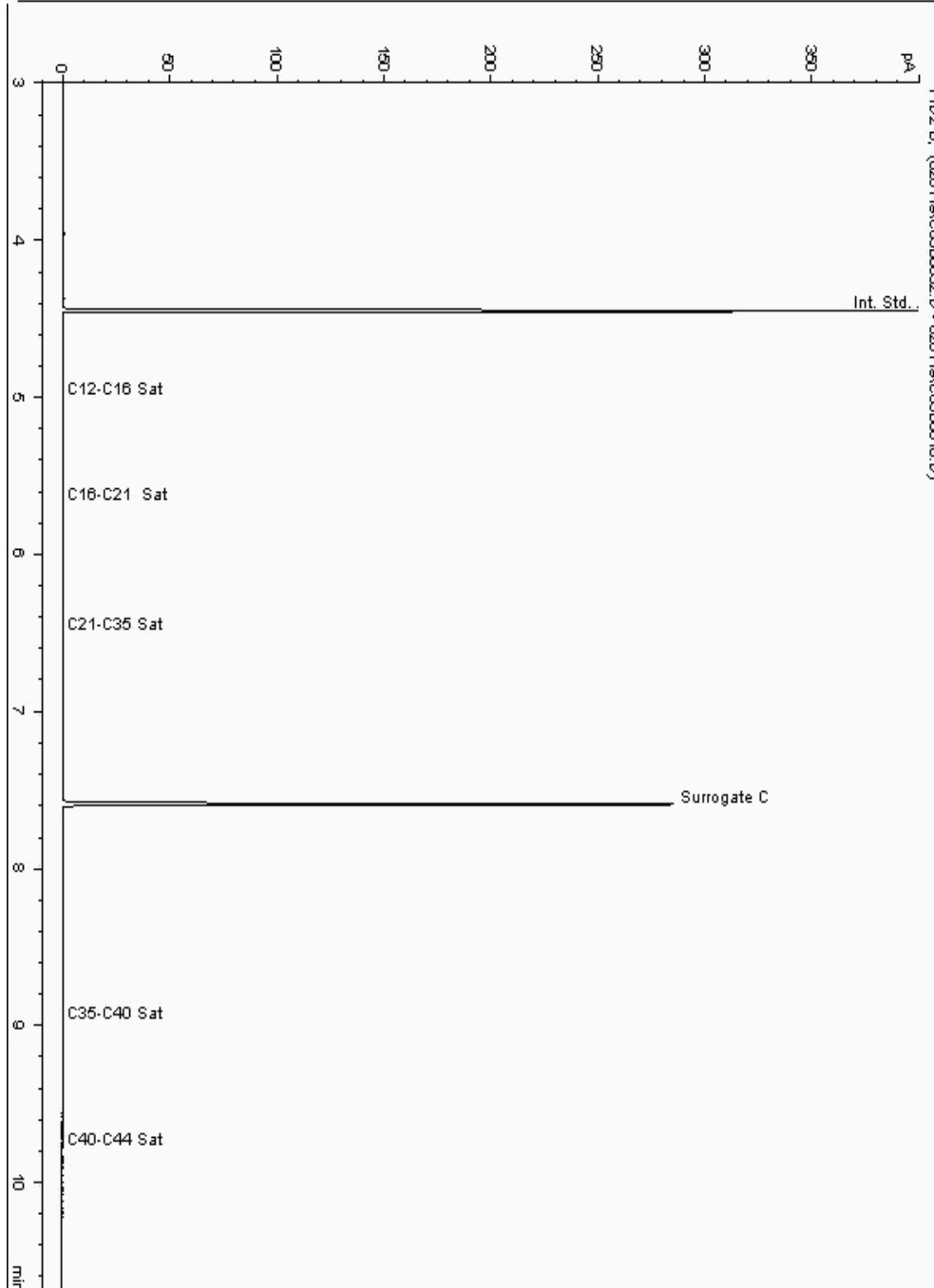
Analysis: EPH CWG (Aliphatic) GC (S)
19209390

Sample No :
Sample ID : BH231

19,209,390Depth :9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040444-
Date Acquired : 01/02/2019 19:18:23 PM
Units : ppb
Dilution: BH231[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

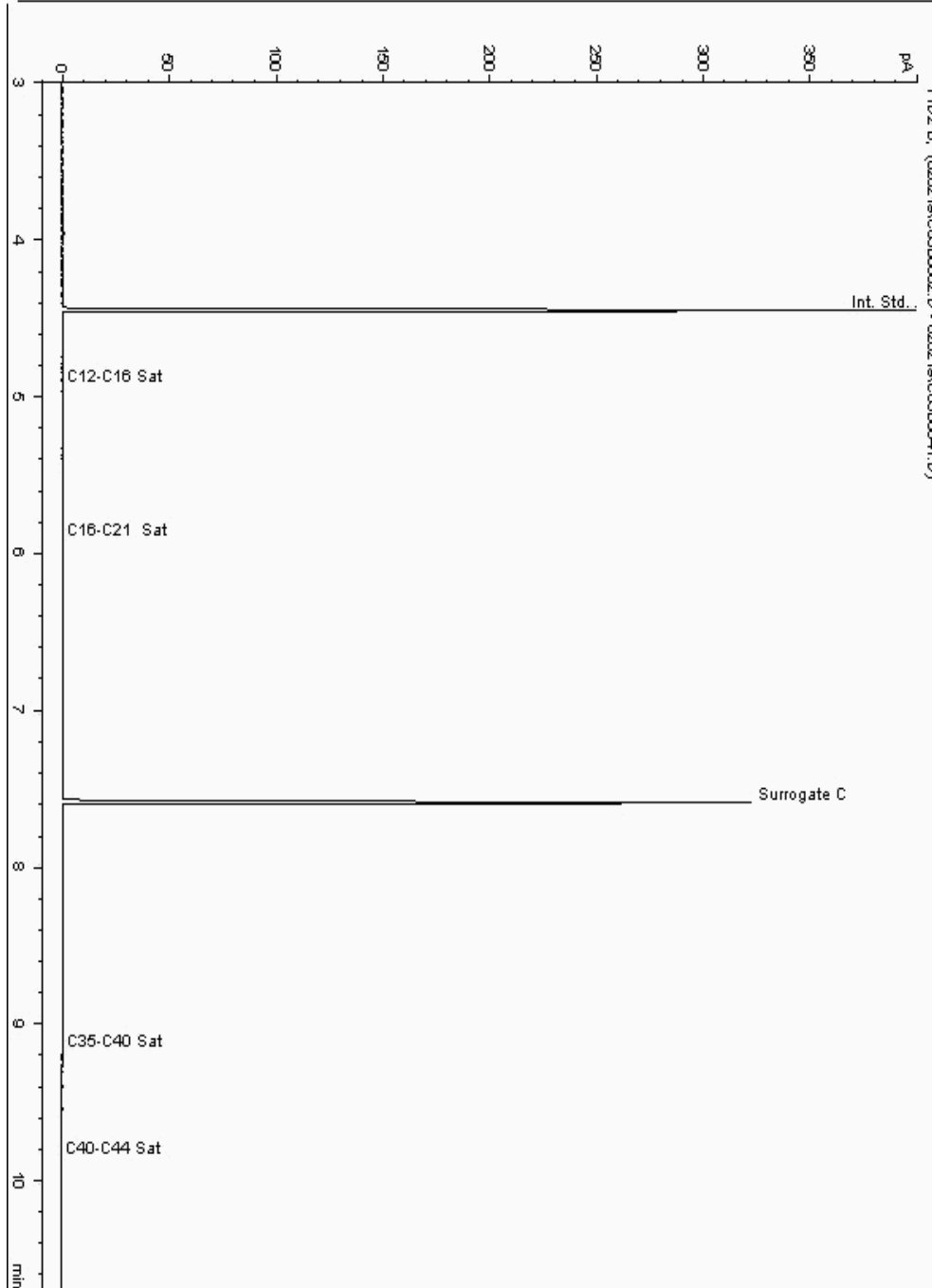
Analysis: EPH CWG (Aliphatic) GC (S)
19209403

Sample No :
Sample ID : BH231

19,209,403 Depth : 10.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040477-
Date Acquired : 04/02/2019 17:09:25 PM
Units : ppb
Dilution: BH231[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

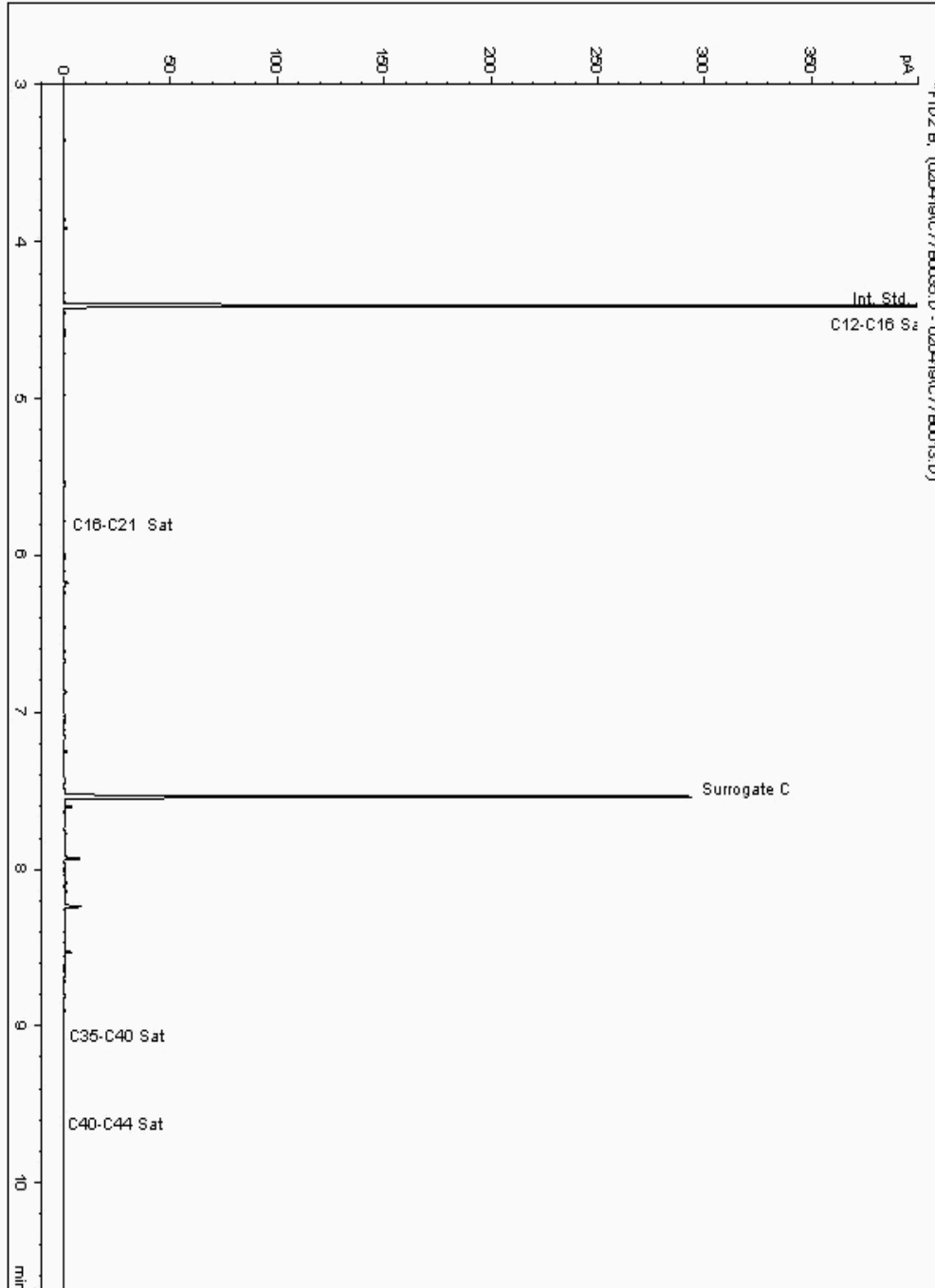
Analysis: EPH CWG (Aliphatic) GC (S)
19211025

Sample No :
Sample ID : BH231

19,211,025 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040272-
Date Acquired : 04/02/2019 20:09:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

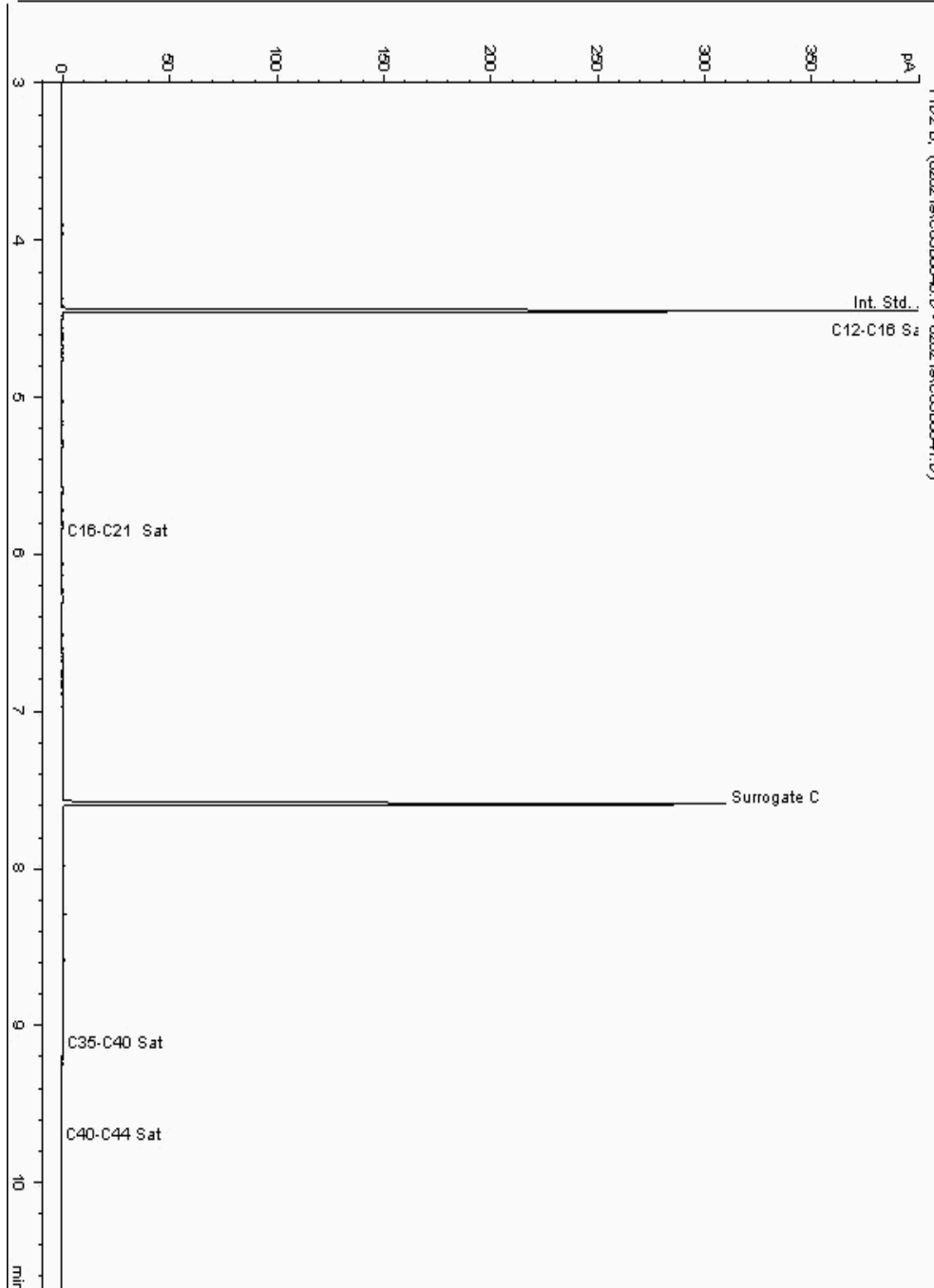
Analysis: EPH CWG (Aliphatic) GC (S)
19211060

Sample No :
Sample ID : BH238

19,211,060 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041431-
Date Acquired : 04/02/2019 11:42:19 PM
Units : ppb
Dilution: BH238[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

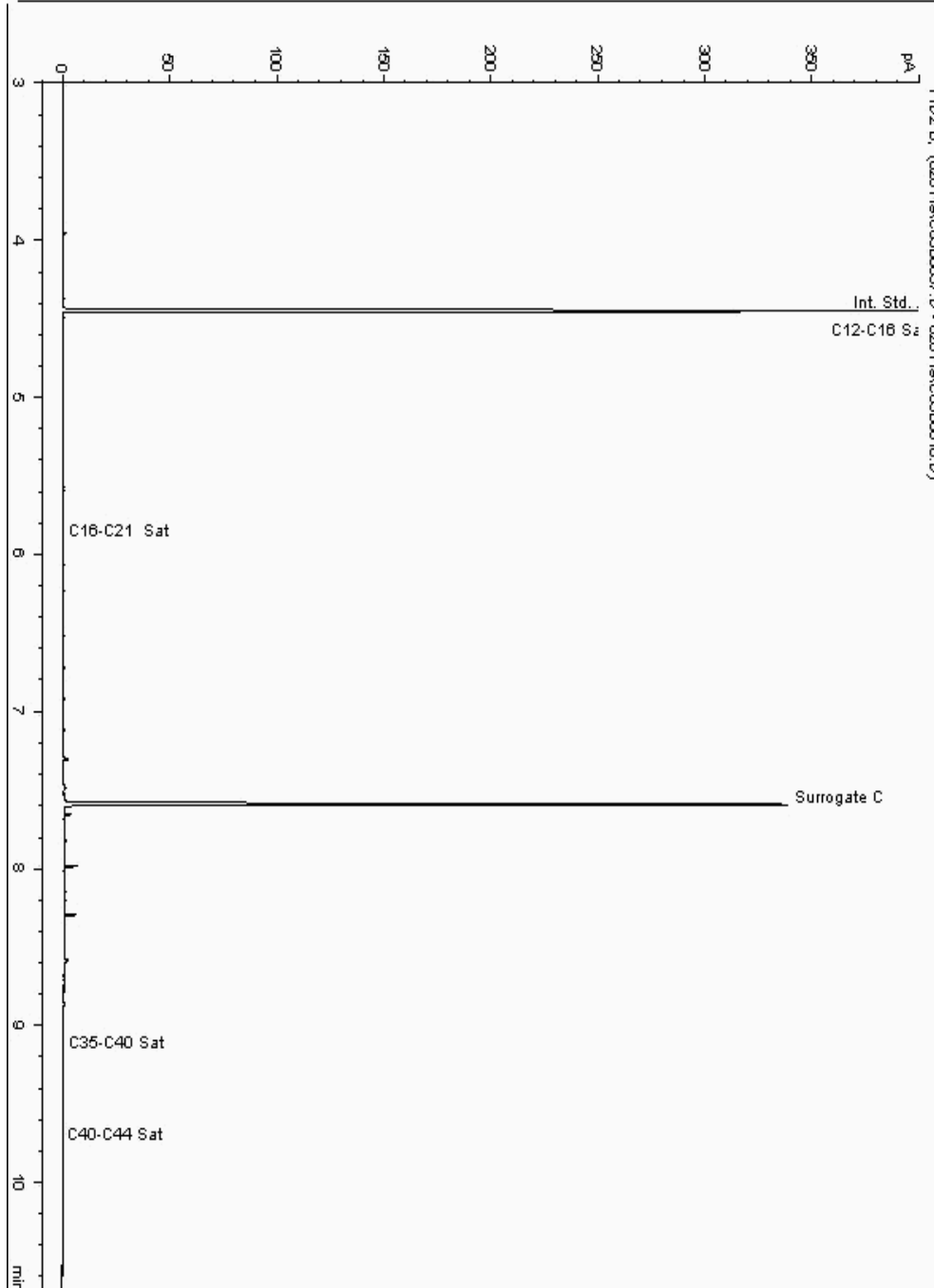
Analysis: EPH CWG (Aliphatic) GC (S)
19211066

Sample No :
Sample ID : BH231

19,211,066 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040346-
Date Acquired : 01/02/2019 20:52:32 PM
Units : ppb
Dilution: BH231[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

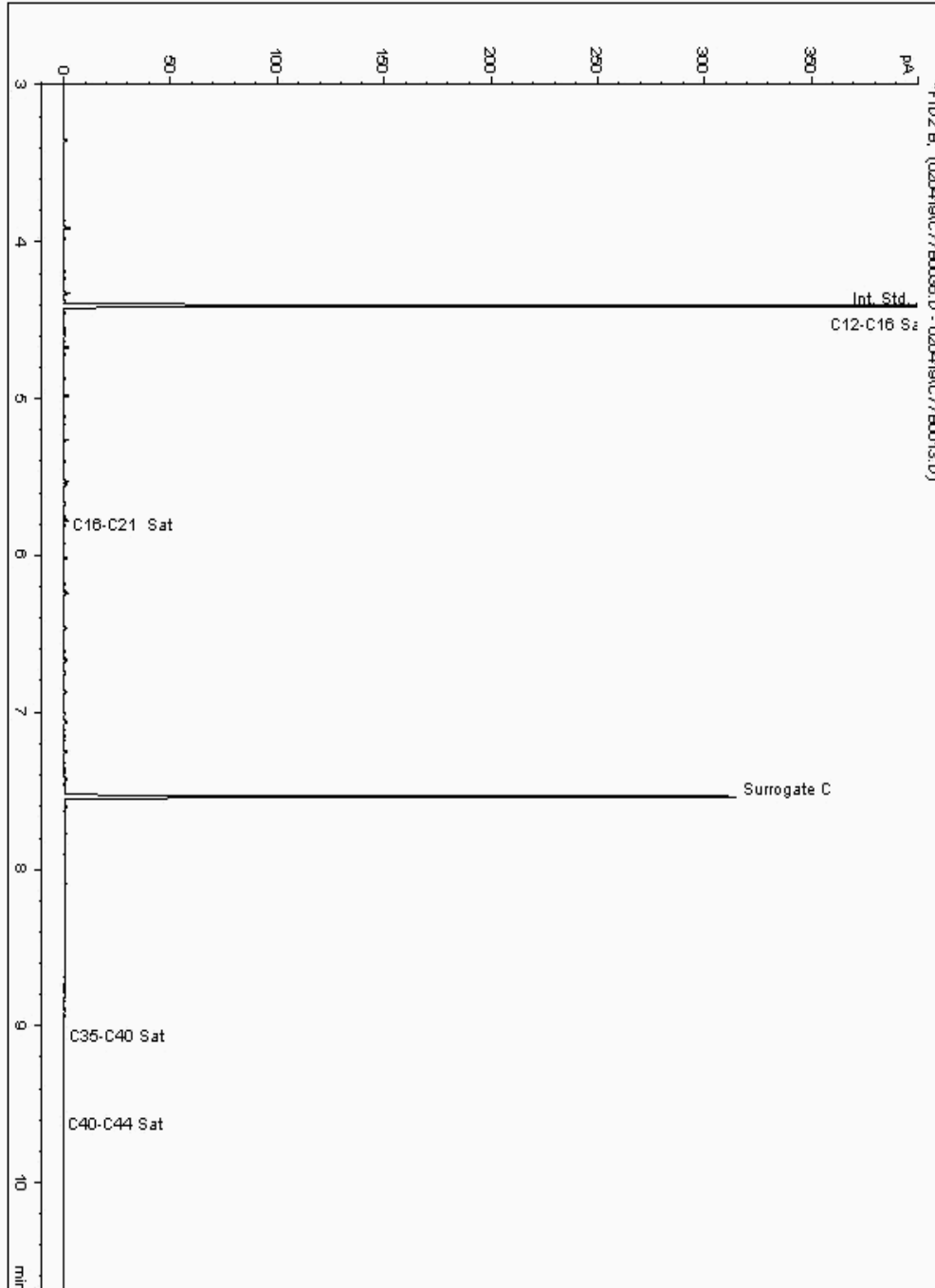
Analysis: EPH CWG (Aliphatic) GC (S)
19211099

Sample No :
Sample ID : BH236

19,211,099 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040817-
Date Acquired : 04/02/2019 20:29:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

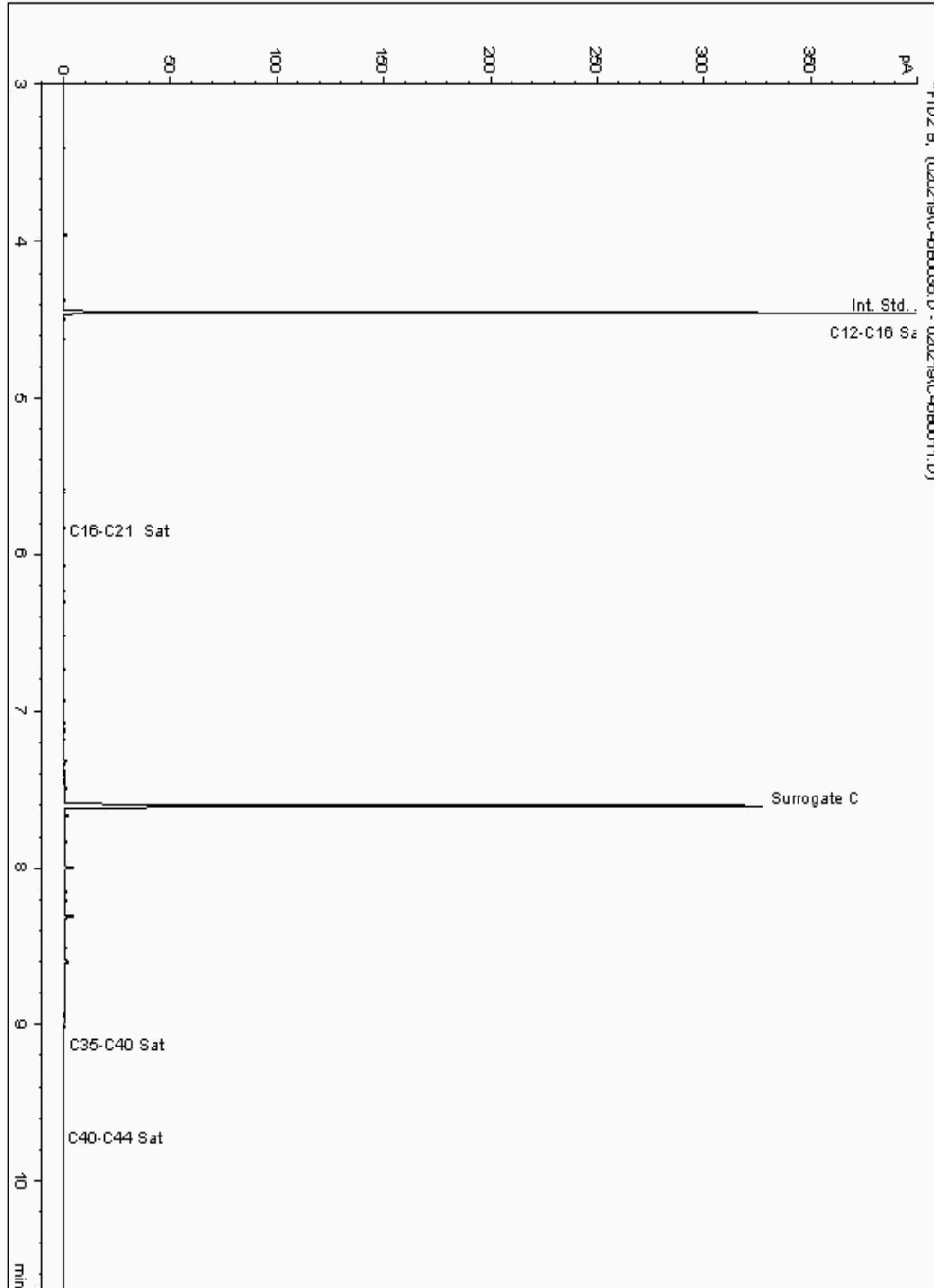
Analysis: EPH CWG (Aliphatic) GC (S)
19211133

Sample No :
Sample ID : BH231

19,211,133Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040403-
Date Acquired : 02/02/2019 19:26:51 PM
Units : ppb
Dilution: BH231[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

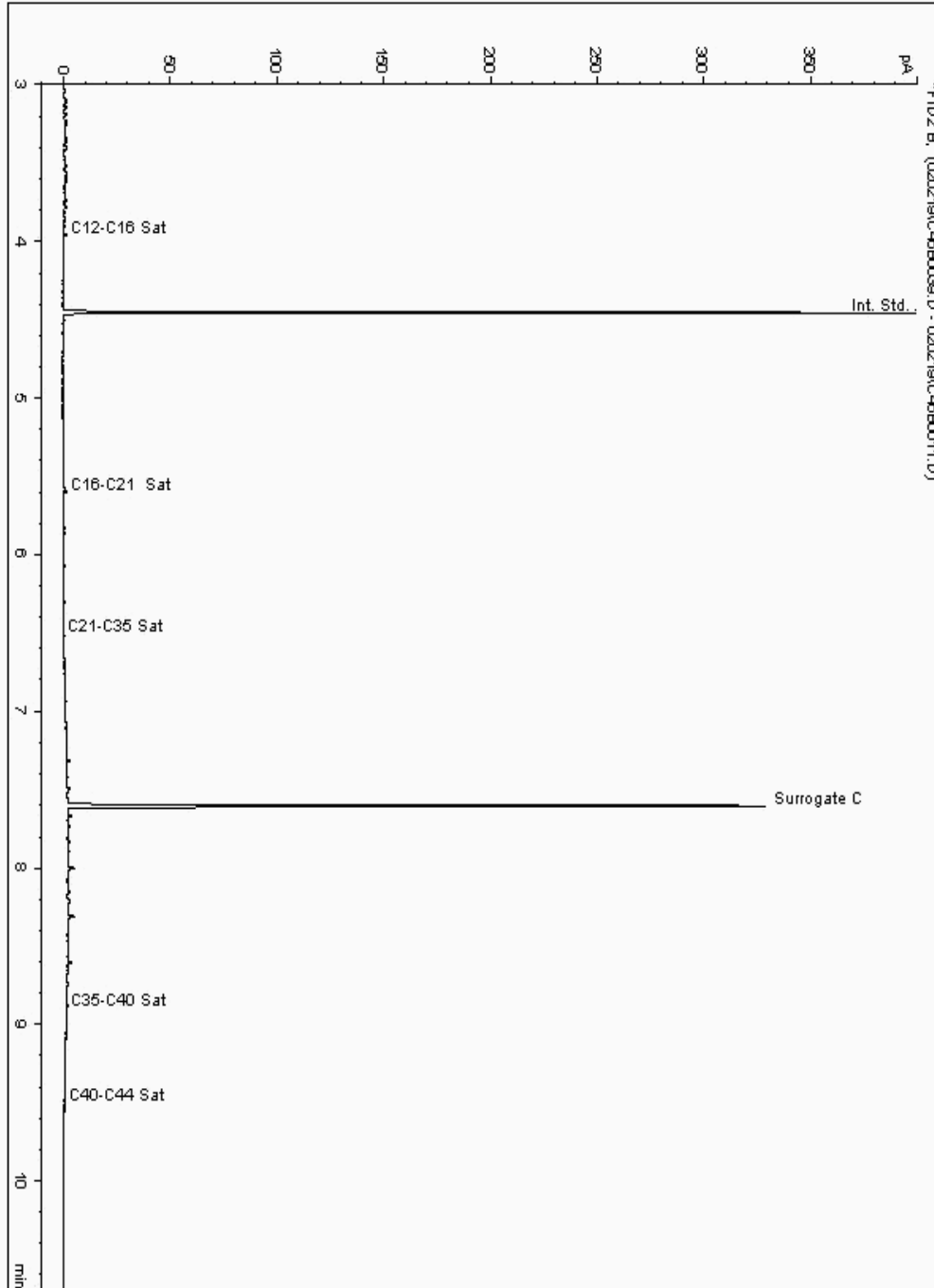
Analysis: EPH CWG (Aliphatic) GC (S)
19211289

Sample No :
Sample ID : BH231

19,211,289Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040377-
Date Acquired : 02/02/2019 20:19:29 PM
Units : ppb
Dilution: BH231[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

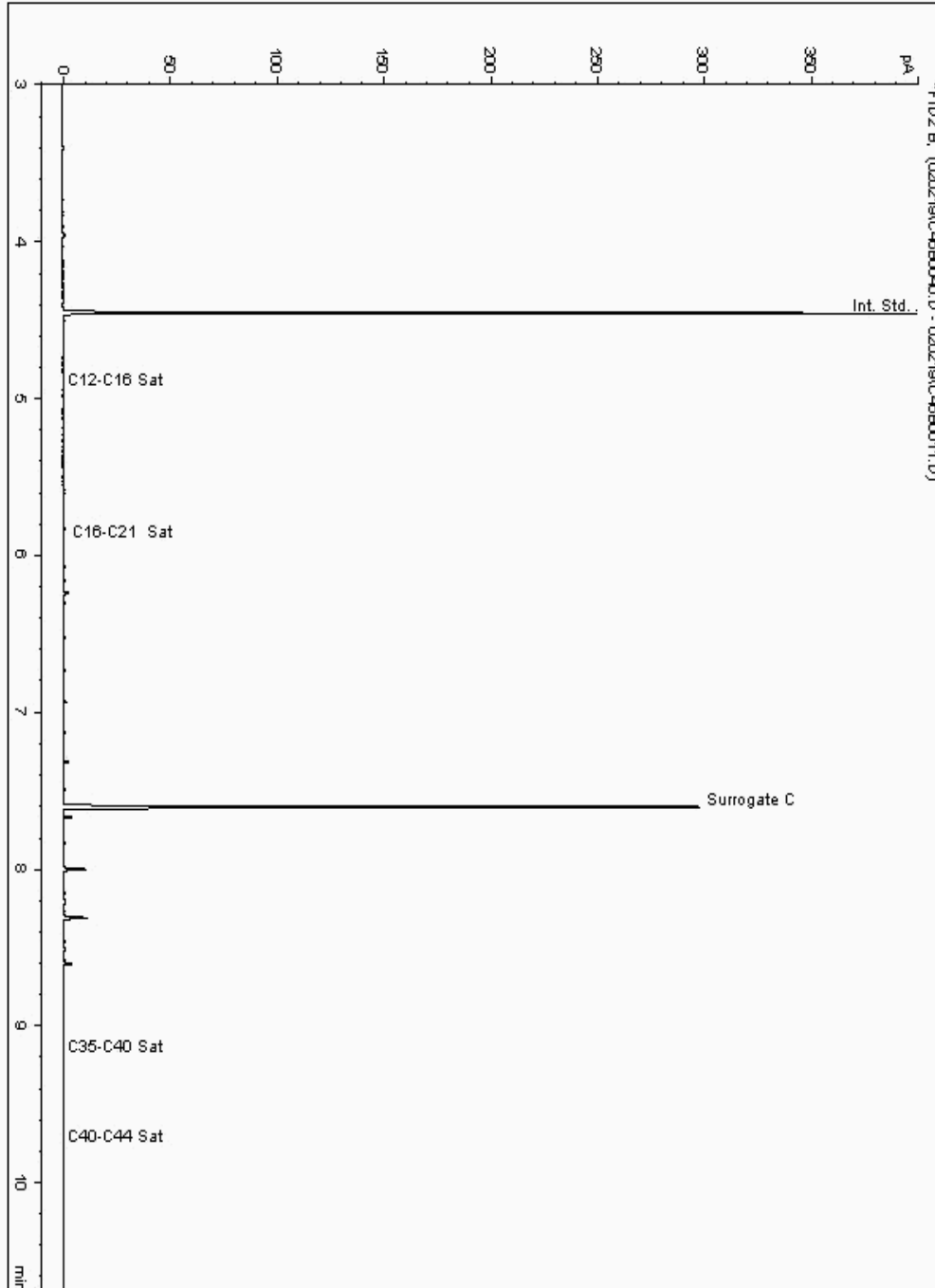
Analysis: EPH CWG (Aliphatic) GC (S)
19211637

Sample No :
Sample ID : BH236

19,211,637Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040665-
Date Acquired : 02/02/2019 20:39:32 PM
Units : ppb
Dilution: BH236[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

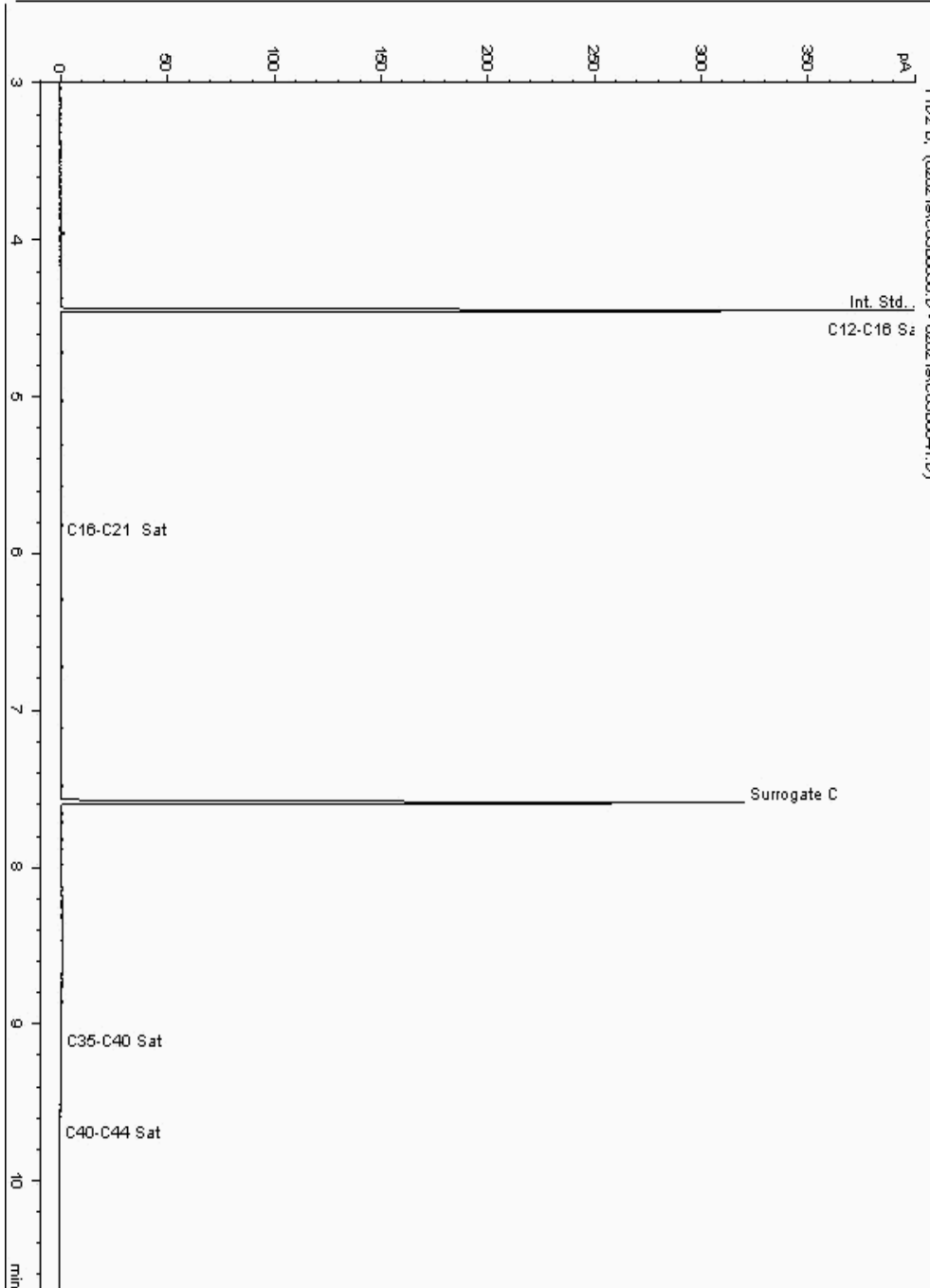
Analysis: EPH CWG (Aliphatic) GC (S)
19211673

Sample No :
Sample ID : BH237

19,211,673 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041242-
Date Acquired : 04/02/2019 15:23:00 PM
Units : ppb
Dilution: BH237[14.00 - 15.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

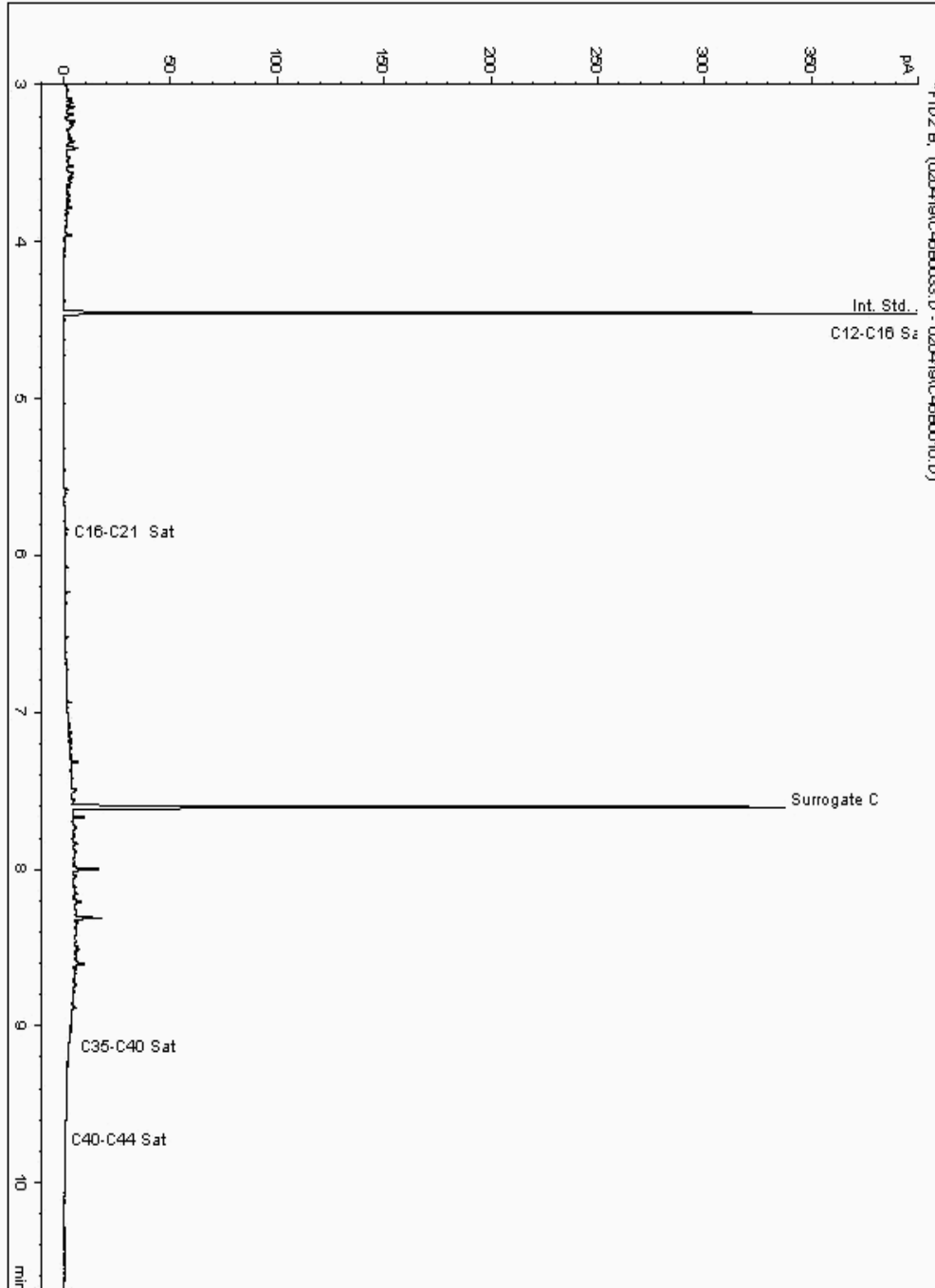
Analysis: EPH CWG (Aliphatic) GC (S)
19211733

Sample No :
Sample ID : BH231

19,211,733 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040298-
Date Acquired : 04/02/2019 21:34:46 PM
Units : ppb
Dilution: BH231[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

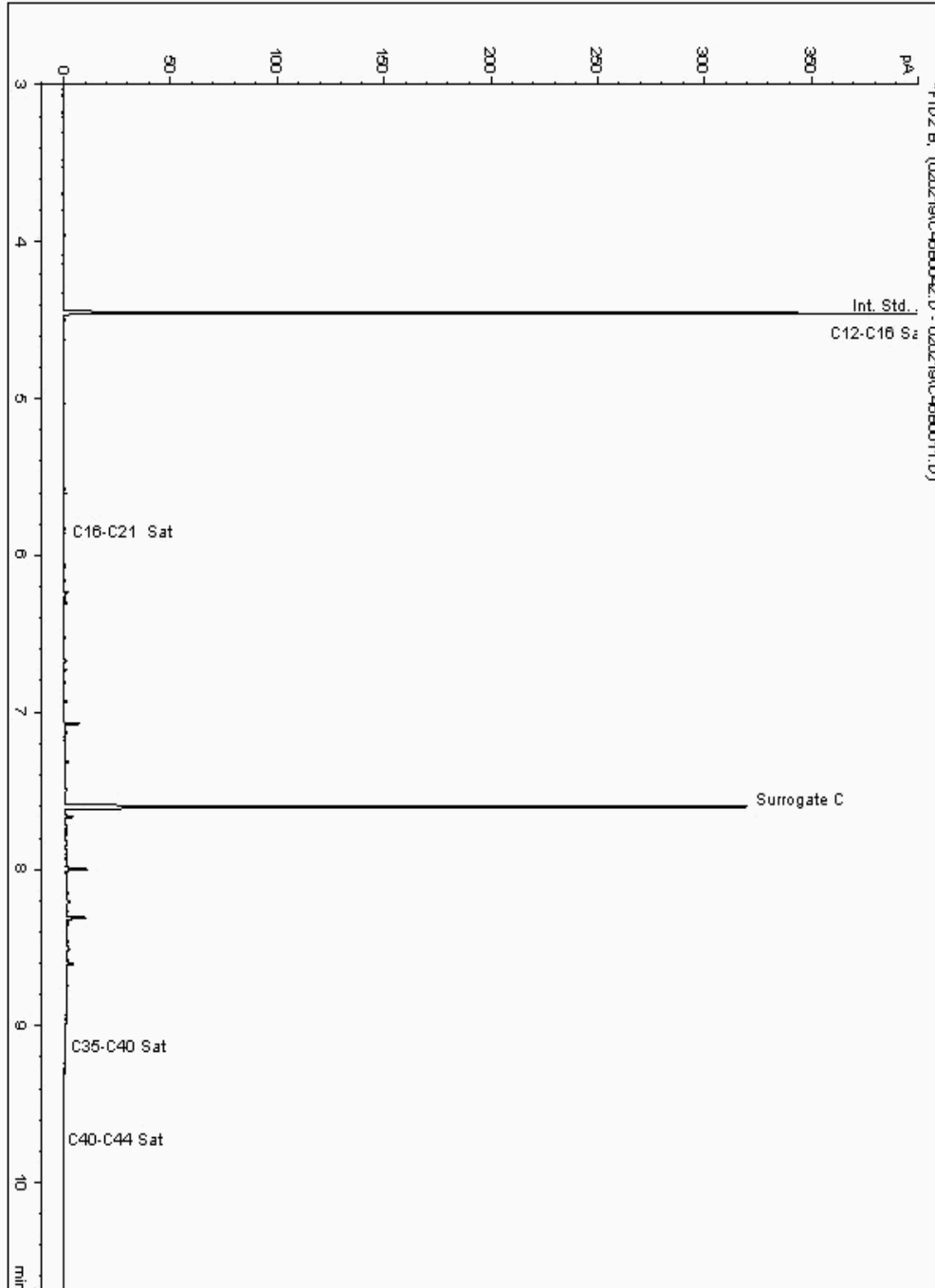
Analysis: EPH CWG (Aliphatic) GC (S)
19211754

Sample No :
Sample ID : BH238

19,211,754 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041385-
Date Acquired : 02/02/2019 21:11:46 PM
Units : ppb
Dilution: BH238[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

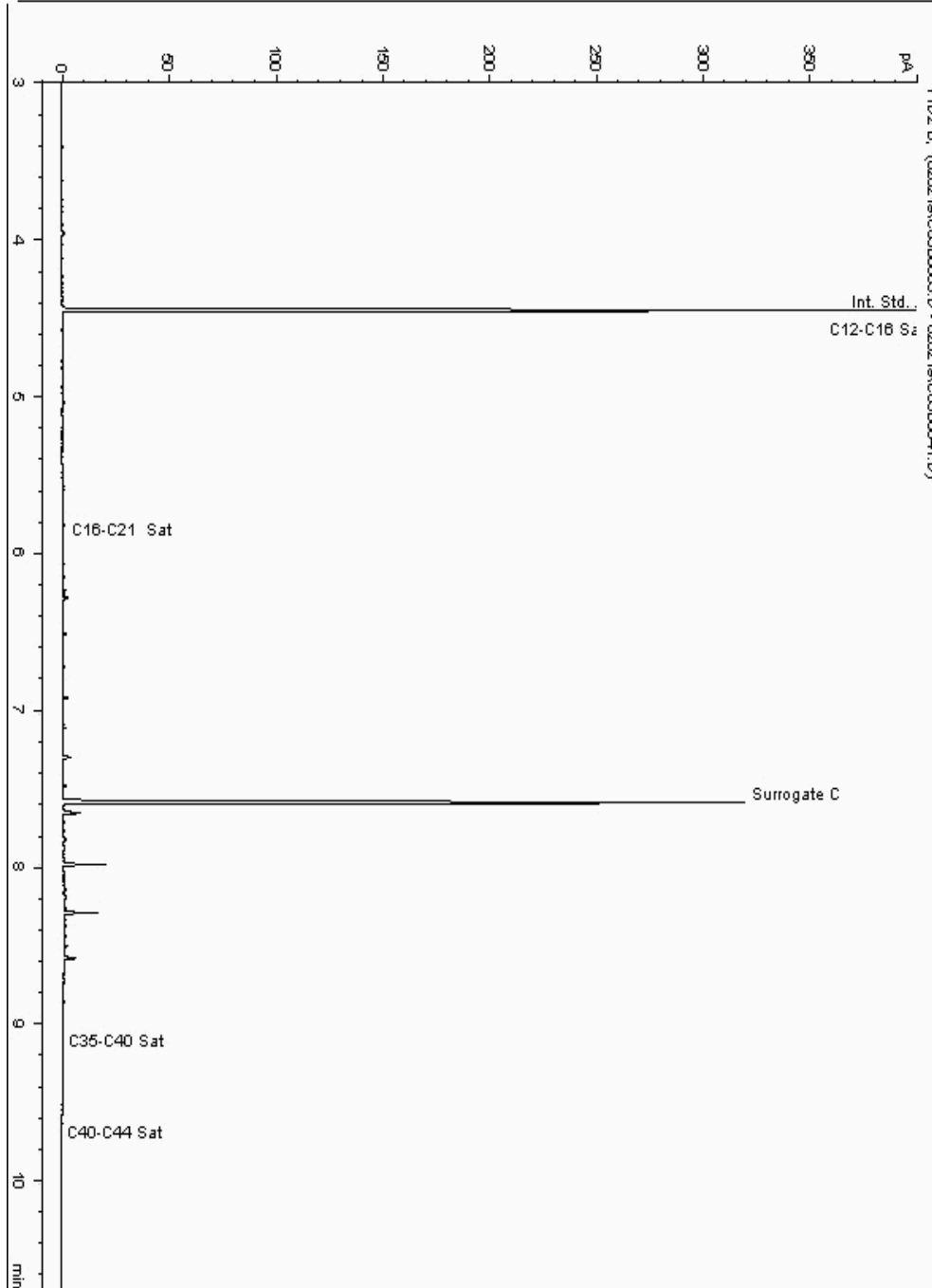
Analysis: EPH CWG (Aliphatic) GC (S)
19211768

Sample No :
Sample ID : BH238

19,211,768 Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041340-
Date Acquired : 04/02/2019 17:29:45 PM
Units : ppb
Dilution: BH238[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

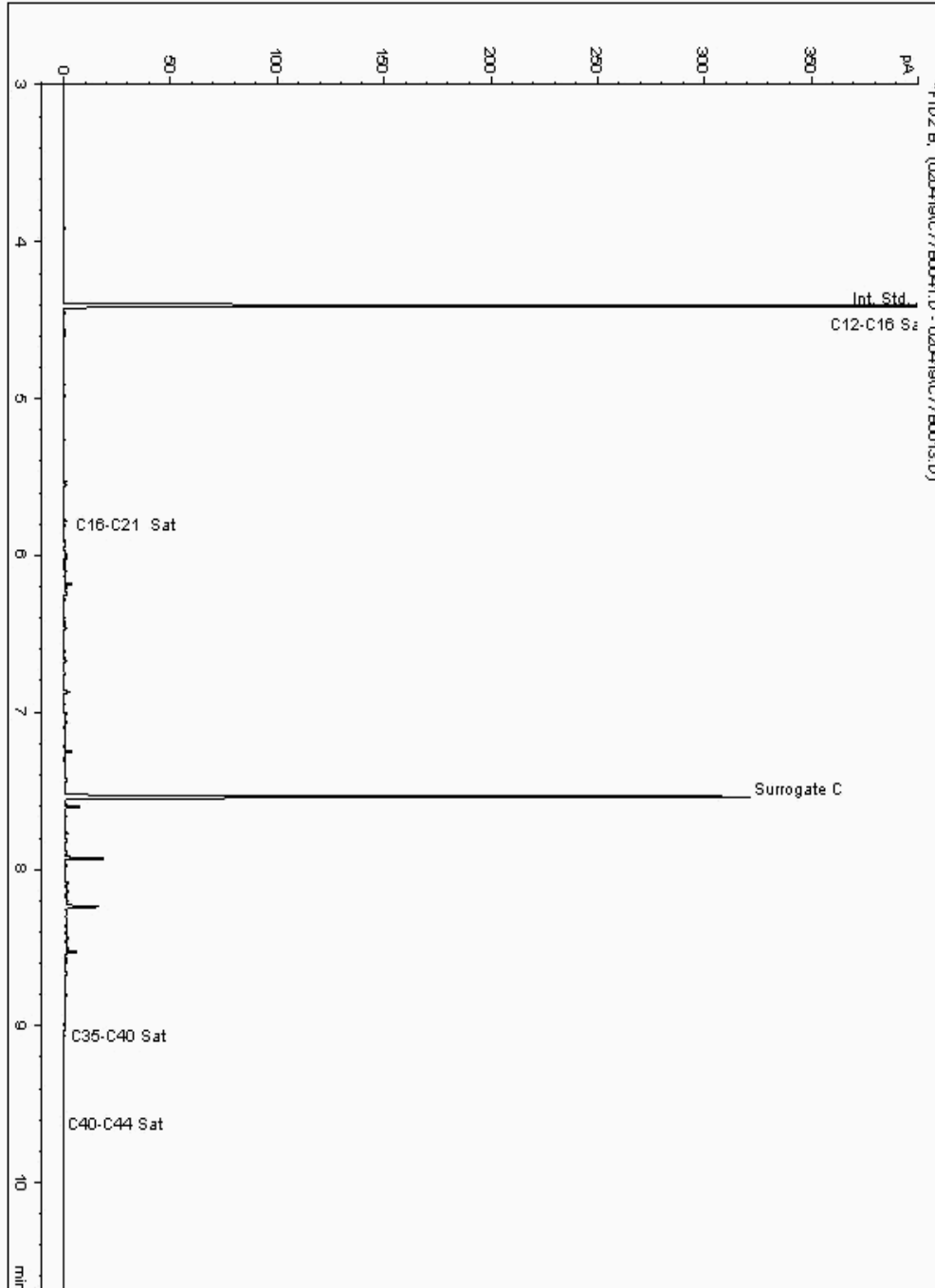
Analysis: EPH CWG (Aliphatic) GC (S)
19211771

Sample No :
Sample ID : BH238

19,211,771 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041363-
Date Acquired : 04/02/2019 22:09:18 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

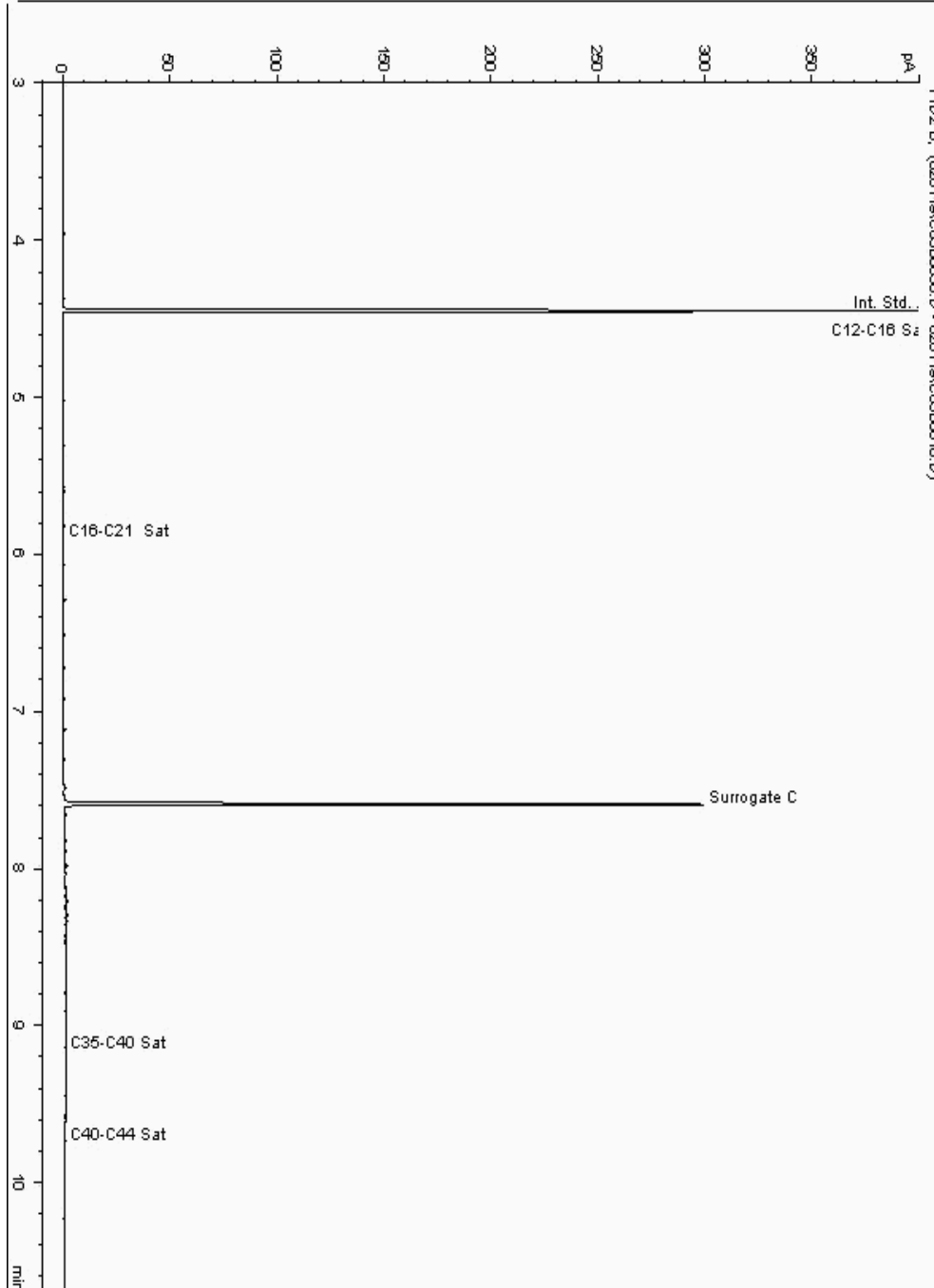
Analysis: EPH CWG (Aliphatic) GC (S)
19211792

Sample No :
Sample ID : BH231

19,211,792Depth :0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040220-
Date Acquired : 01/02/2019 21:12:56 PM
Units : ppb
Dilution: BH231[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

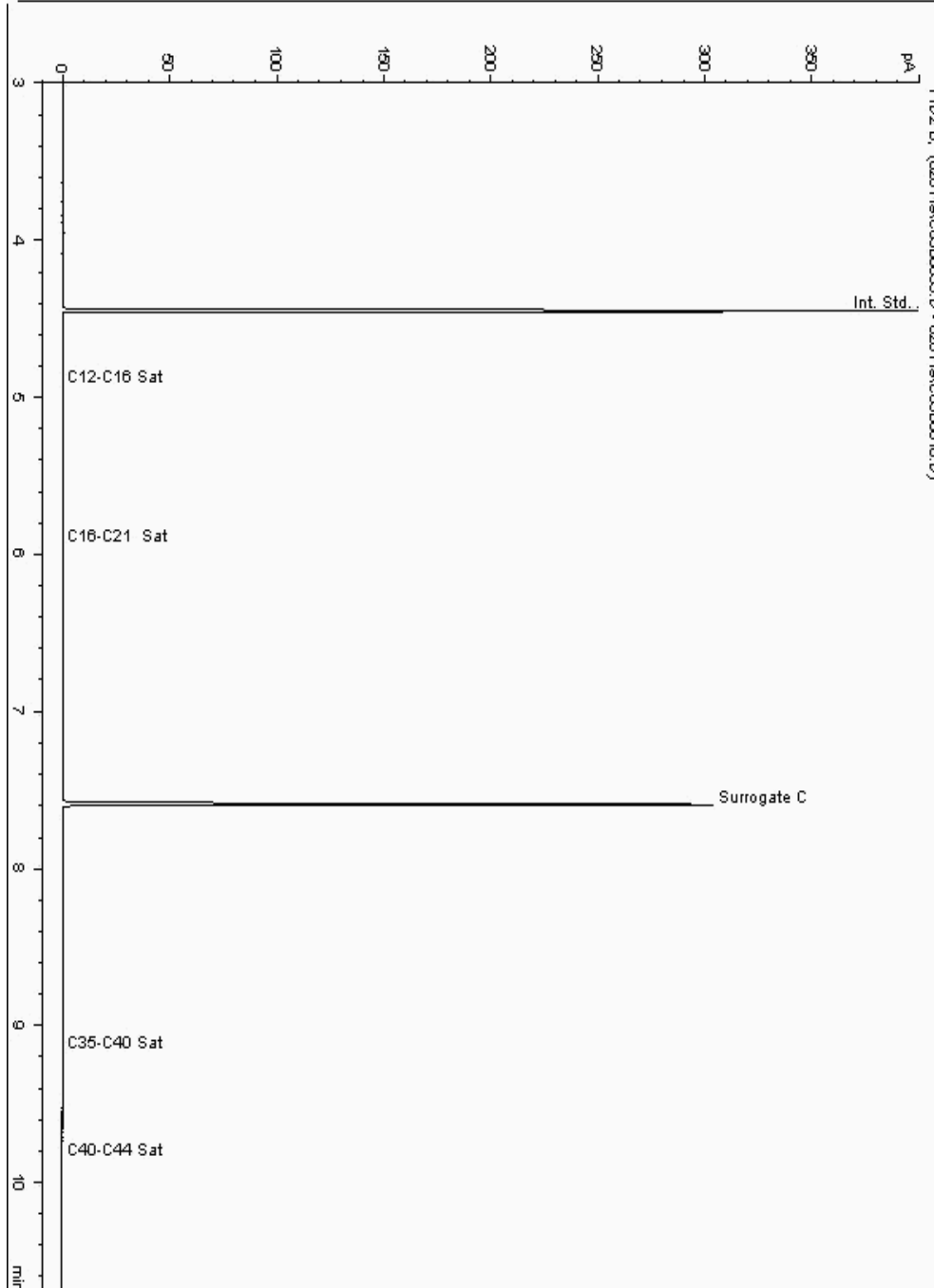
Analysis: EPH CWG (Aliphatic) GC (S)
19212071

Sample No :
Sample ID : BH236

19,212,071 Depth : 8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040720-
Date Acquired : 01/02/2019 19:38:55 PM
Units : ppb
Dilution: BH236[8.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

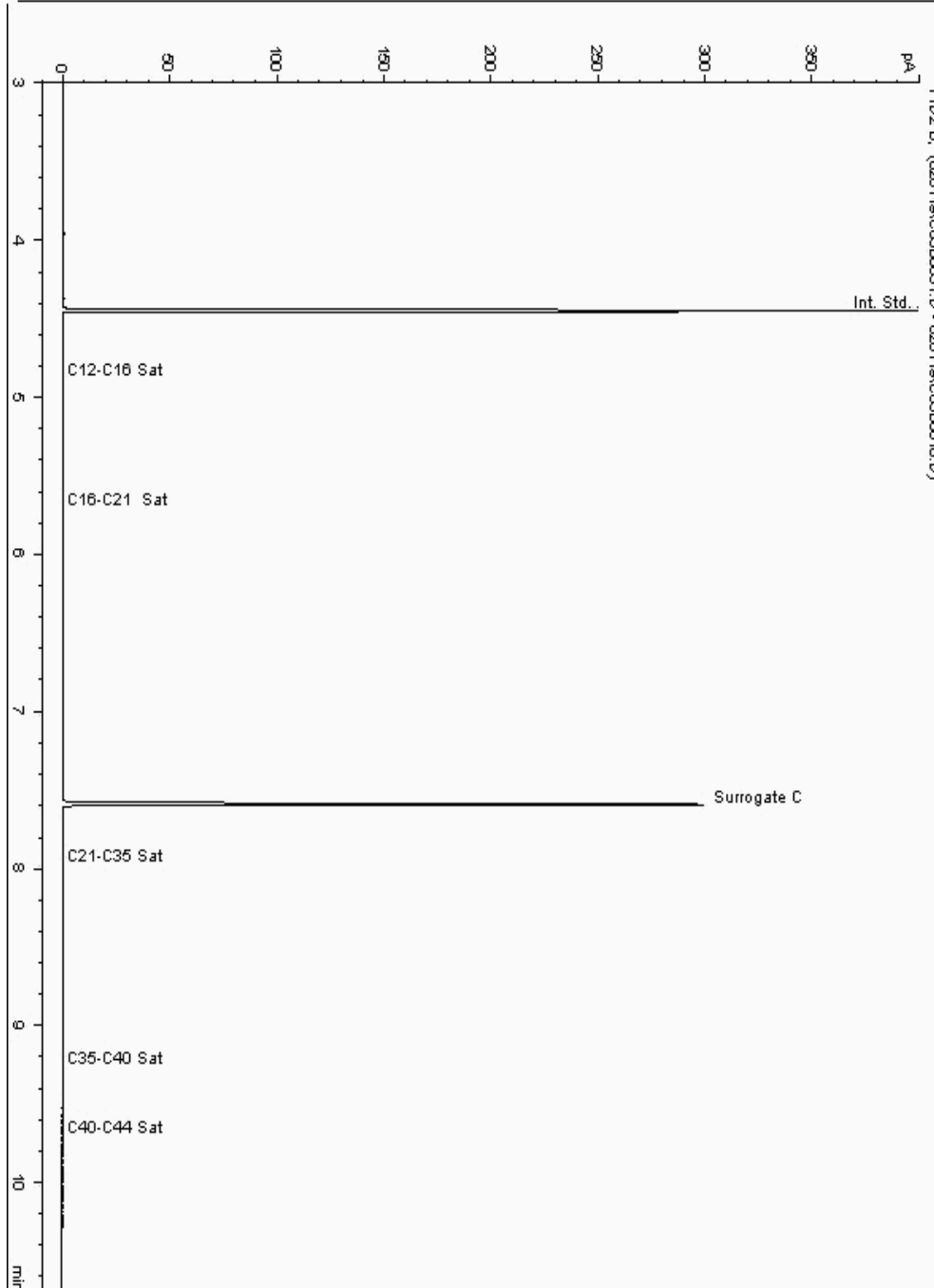
Analysis: EPH CWG (Aliphatic) GC (S)
19212094

Sample No :
Sample ID : BH236

19,212,094Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040744-
Date Acquired : 01/02/2019 18:57:59 PM
Units : ppb
Dilution: BH236[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

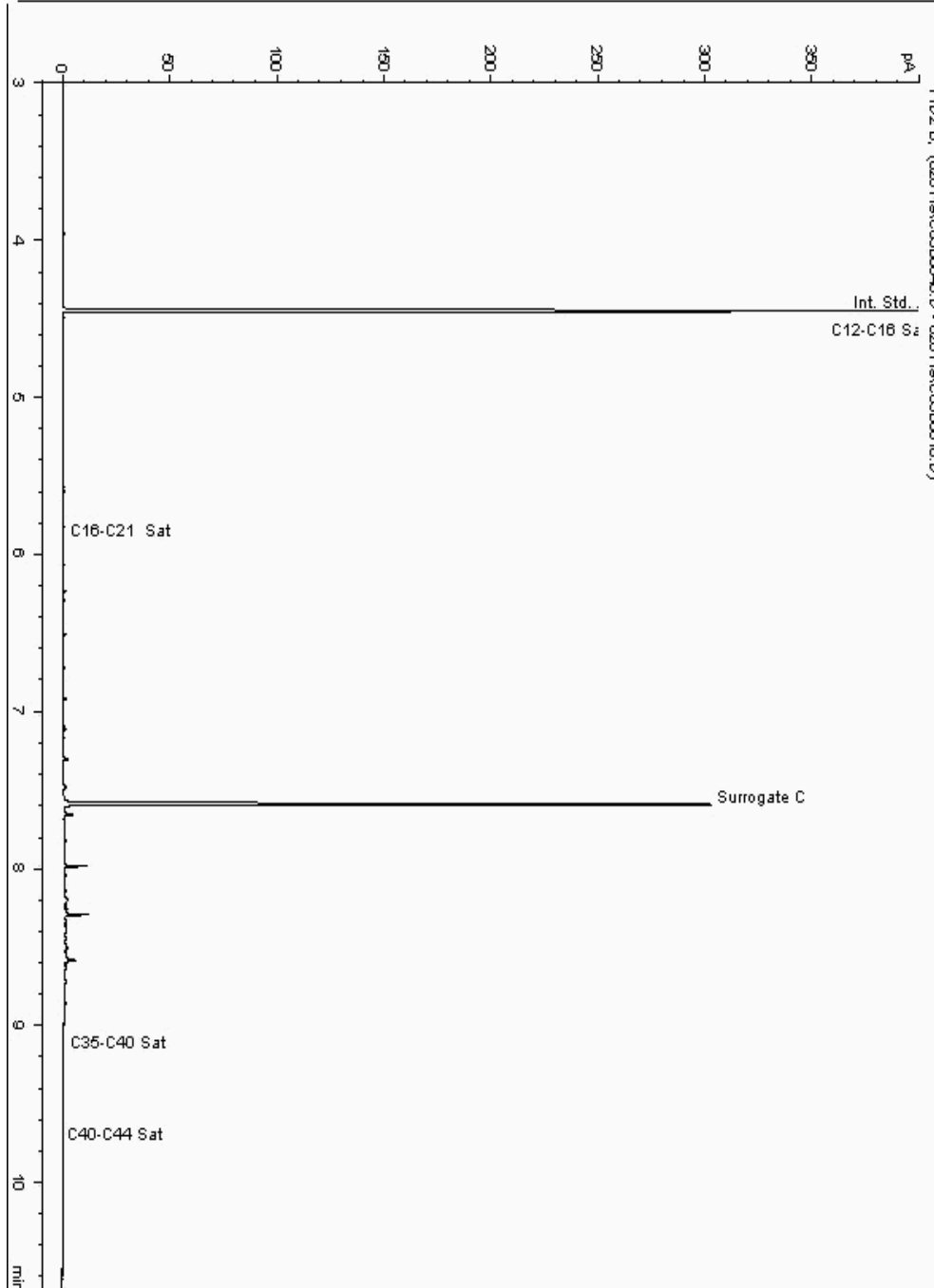
Analysis: EPH CWG (Aliphatic) GC (S)
19212136

Sample No :
Sample ID : BH238

19,212,136 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041317-
Date Acquired : 01/02/2019 22:38:18 PM
Units : ppb
Dilution: BH238[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

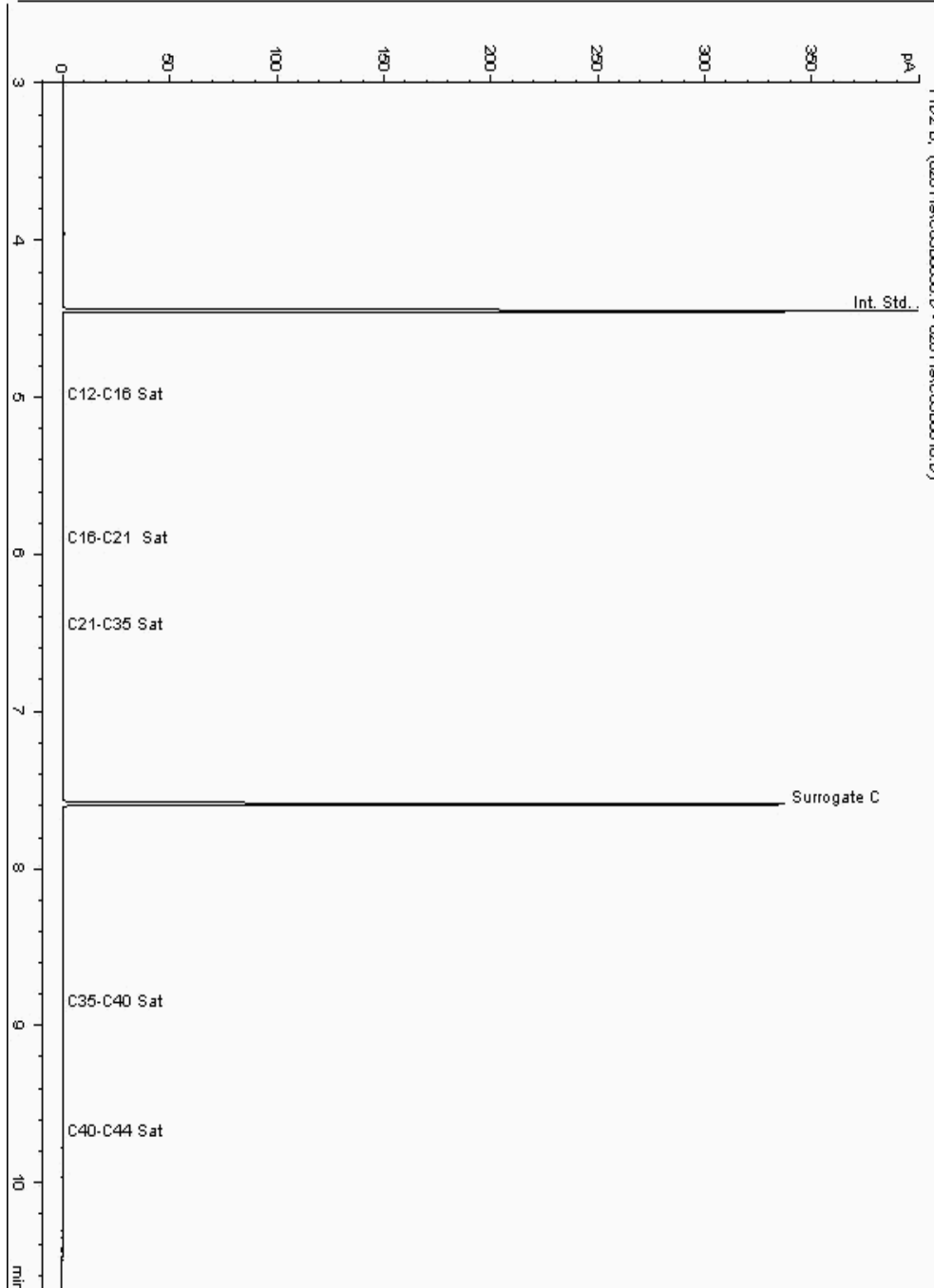
Analysis: EPH CWG (Aliphatic) GC (S)
19223990

Sample No :
Sample ID : BH238

19,223,990Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041457-
Date Acquired : 01/02/2019 18:37:34 PM
Units : ppb
Dilution: BH238[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

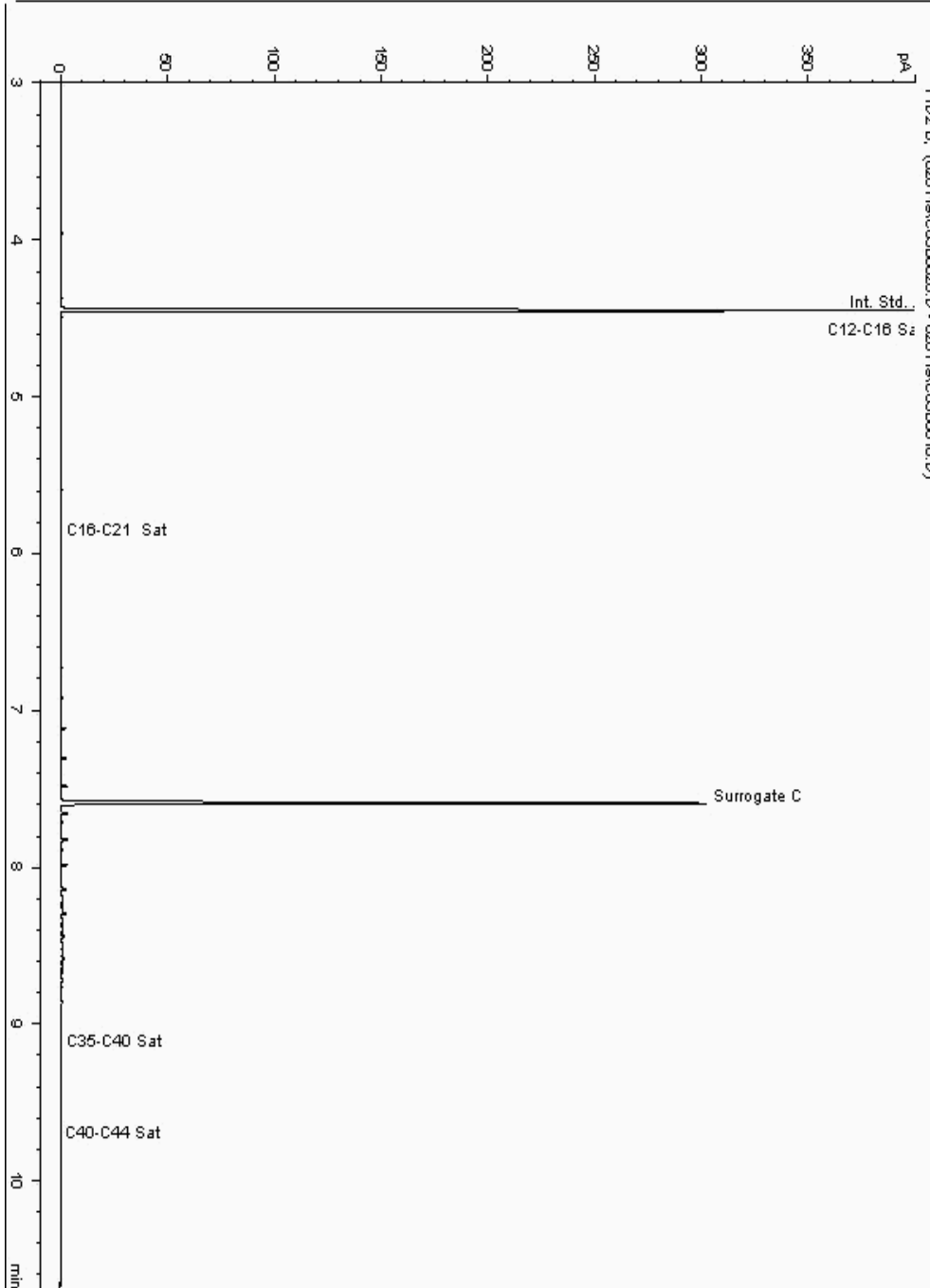
Analysis: EPH CWG (Aliphatic) GC (S)
19224119

Sample No :
Sample ID : BH237

19,224,119 Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040842-
Date Acquired : 01/02/2019 17:23:55 PM
Units : ppb
Dilution: BH237[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

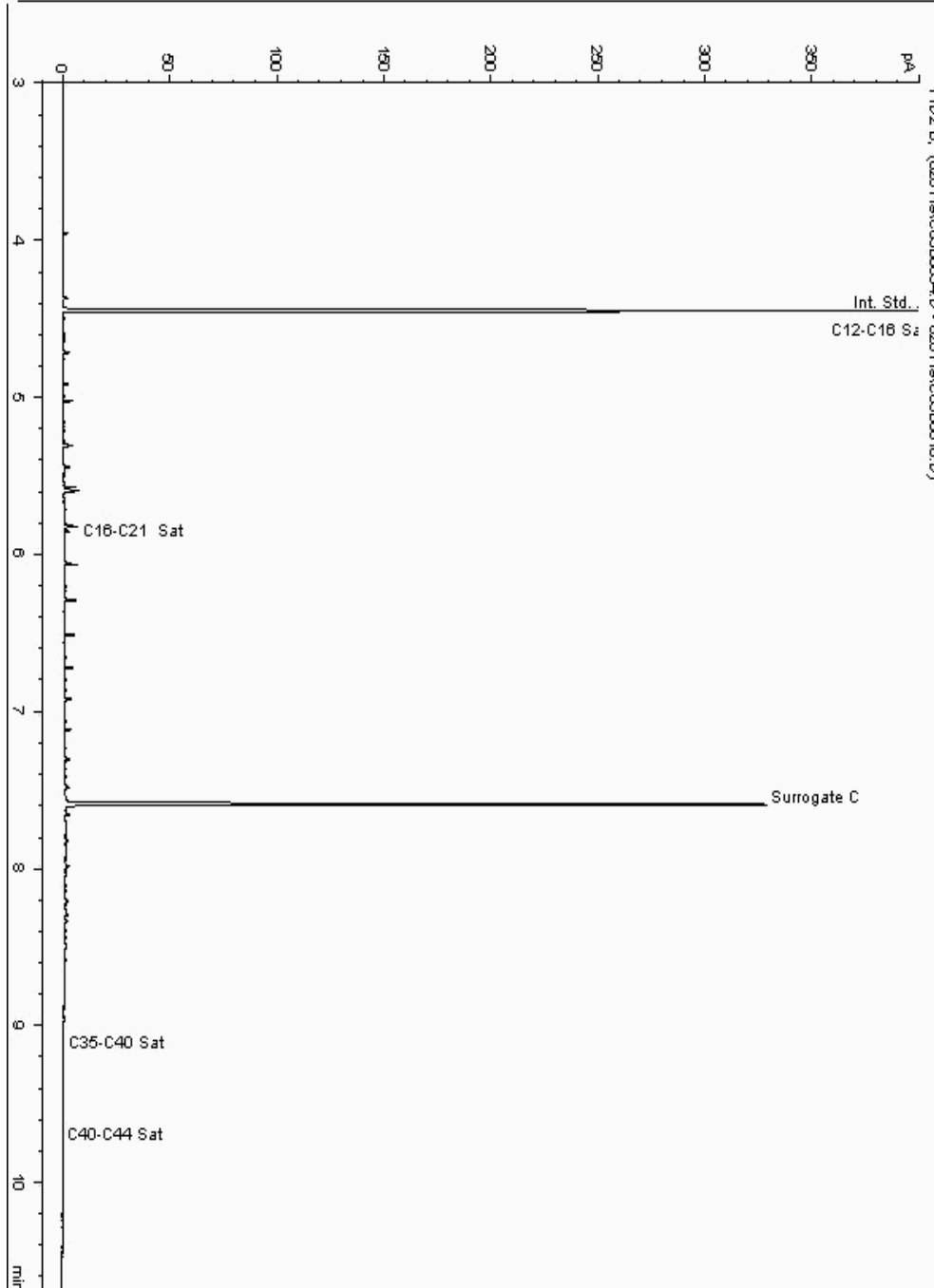
Analysis: EPH CWG (Aliphatic) GC (S)
19224402

Sample No :
Sample ID : BH238

19,224,402Depth :0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041268-
Date Acquired : 01/02/2019 19:59:19 PM
Units : ppb
Dilution: BH238[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

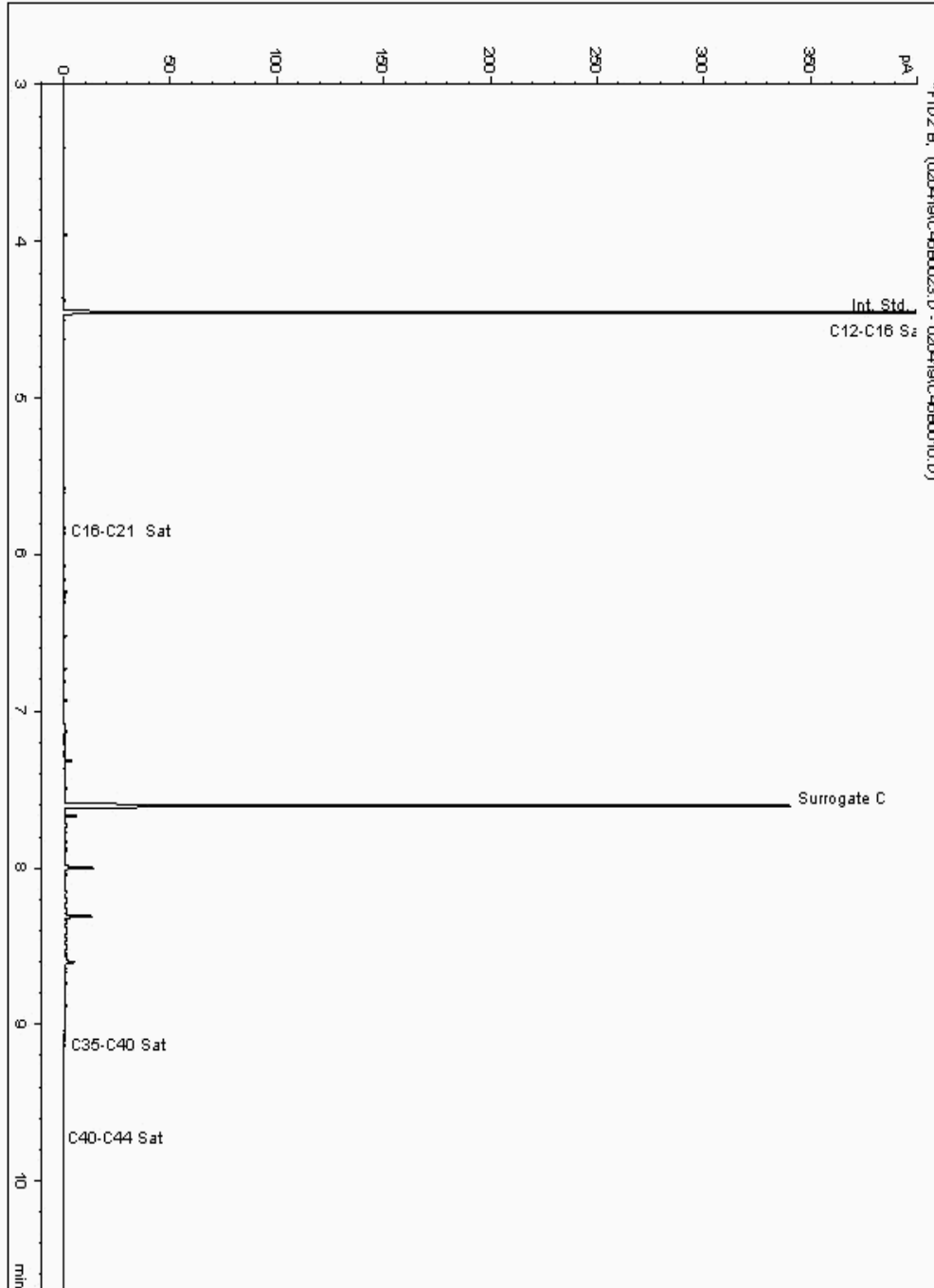
Analysis: EPH CWG (Aliphatic) GC (S)
19232528

Sample No :
Sample ID : BH231

19,232,528 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040323-
Date Acquired : 04/02/2019 18:29:30 PM
Units : ppb
Dilution: BH231[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

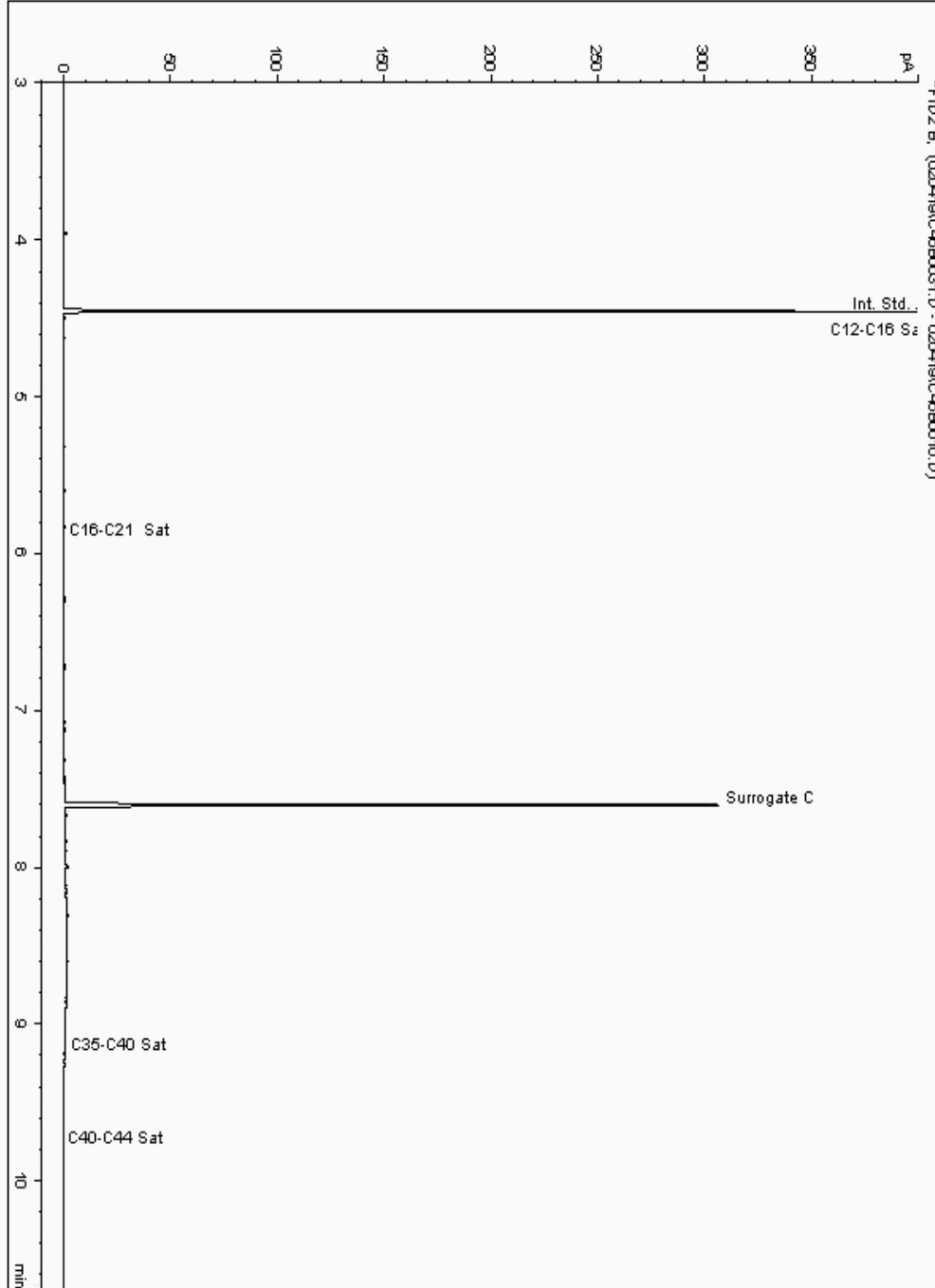
Analysis: EPH CWG (Aliphatic) GC (S)
19232651

Sample No :
Sample ID : BH238

19,232,651 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041408-
Date Acquired : 04/02/2019 20:54:25 PM
Units : ppb
Dilution: BH238[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

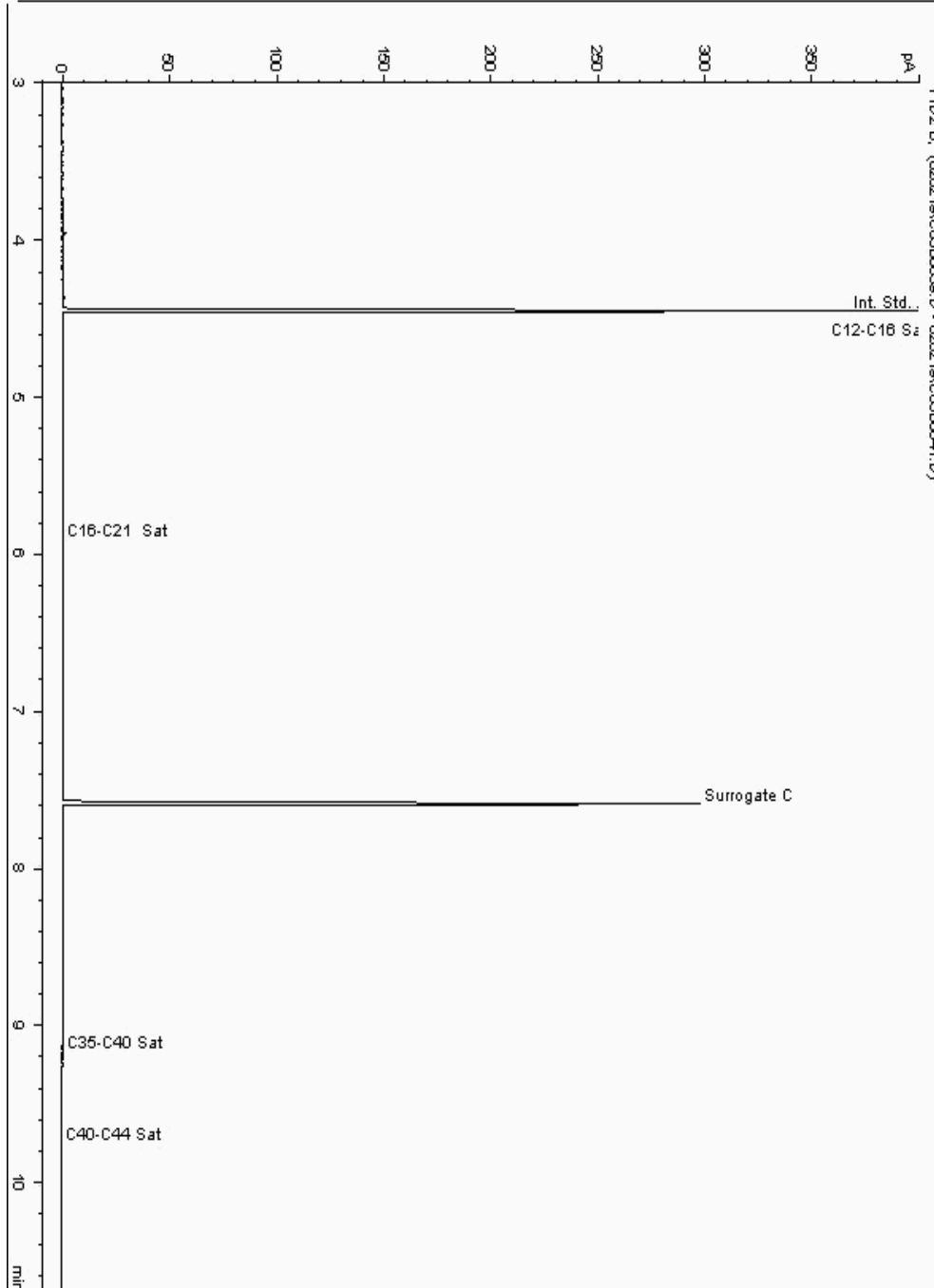
Analysis: EPH CWG (Aliphatic) GC (S)
19232737

Sample No :
Sample ID : BH236

19,232,737Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040794-
Date Acquired : 04/02/2019 16:16:23 PM
Units : ppb
Dilution: BH236[13.00 - 14.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

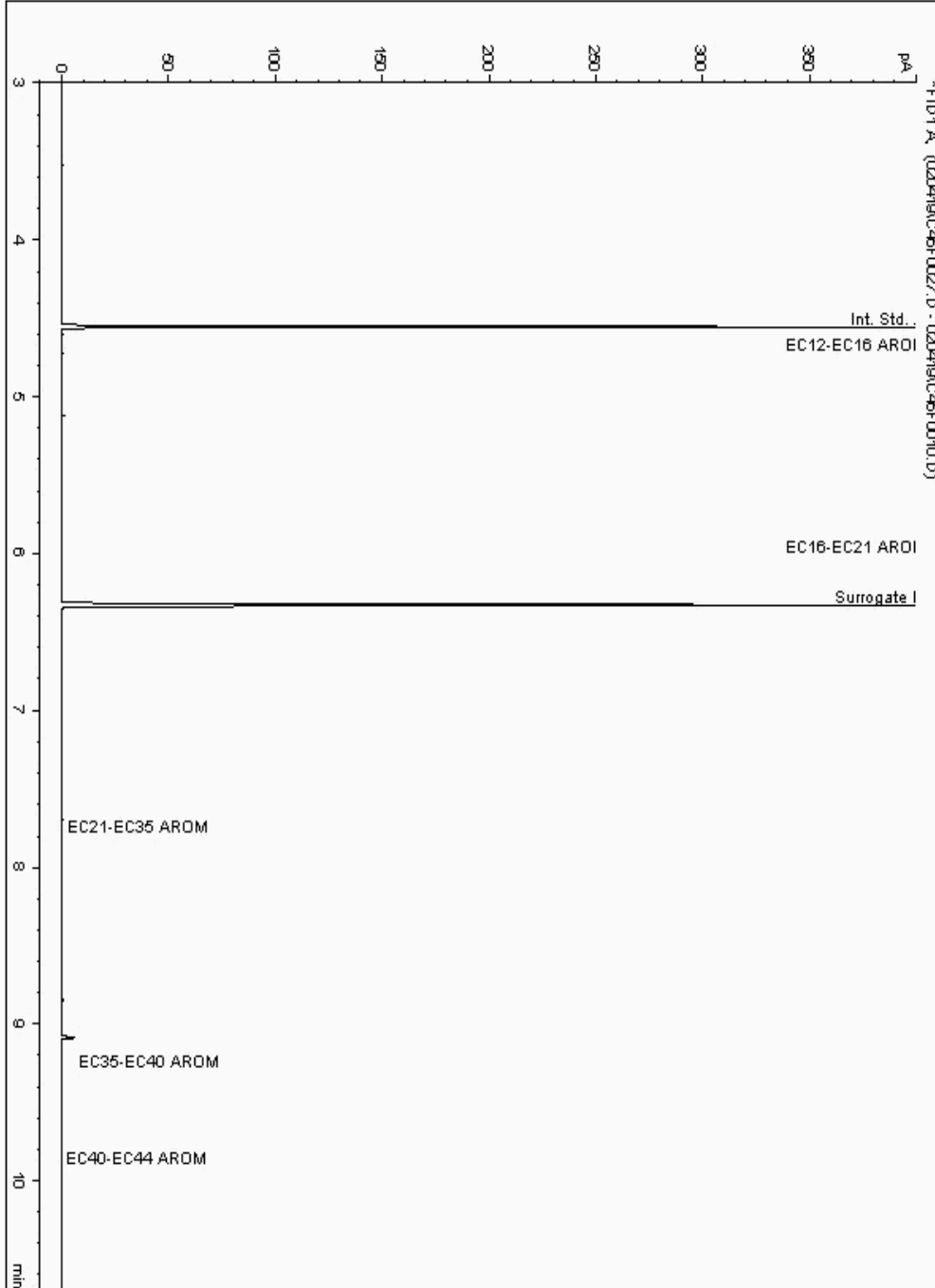
Analysis: EPH CWG (Aromatic) GC (S)
19207753

Sample No :
Sample ID : BH230

19,207,753Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040111-
Date Acquired : 04/02/2019 19:41:52 PM
Units : ppb
Dilution: BH230[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

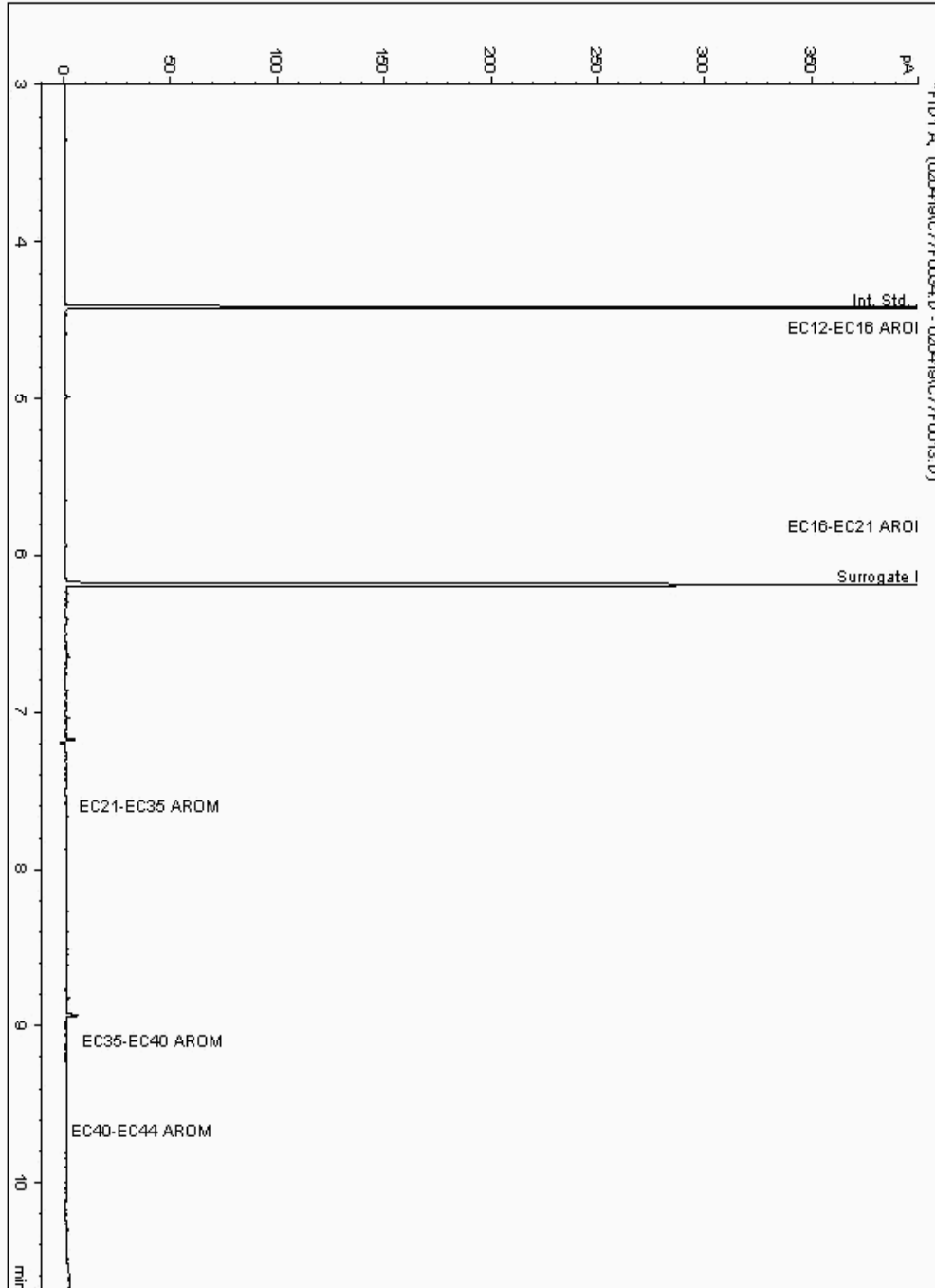
Analysis: EPH CWG (Aromatic) GC (S)
19207919

Sample No :
Sample ID : BH230

19,207,919 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040003-
Date Acquired : 04/02/2019 19:49:00 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

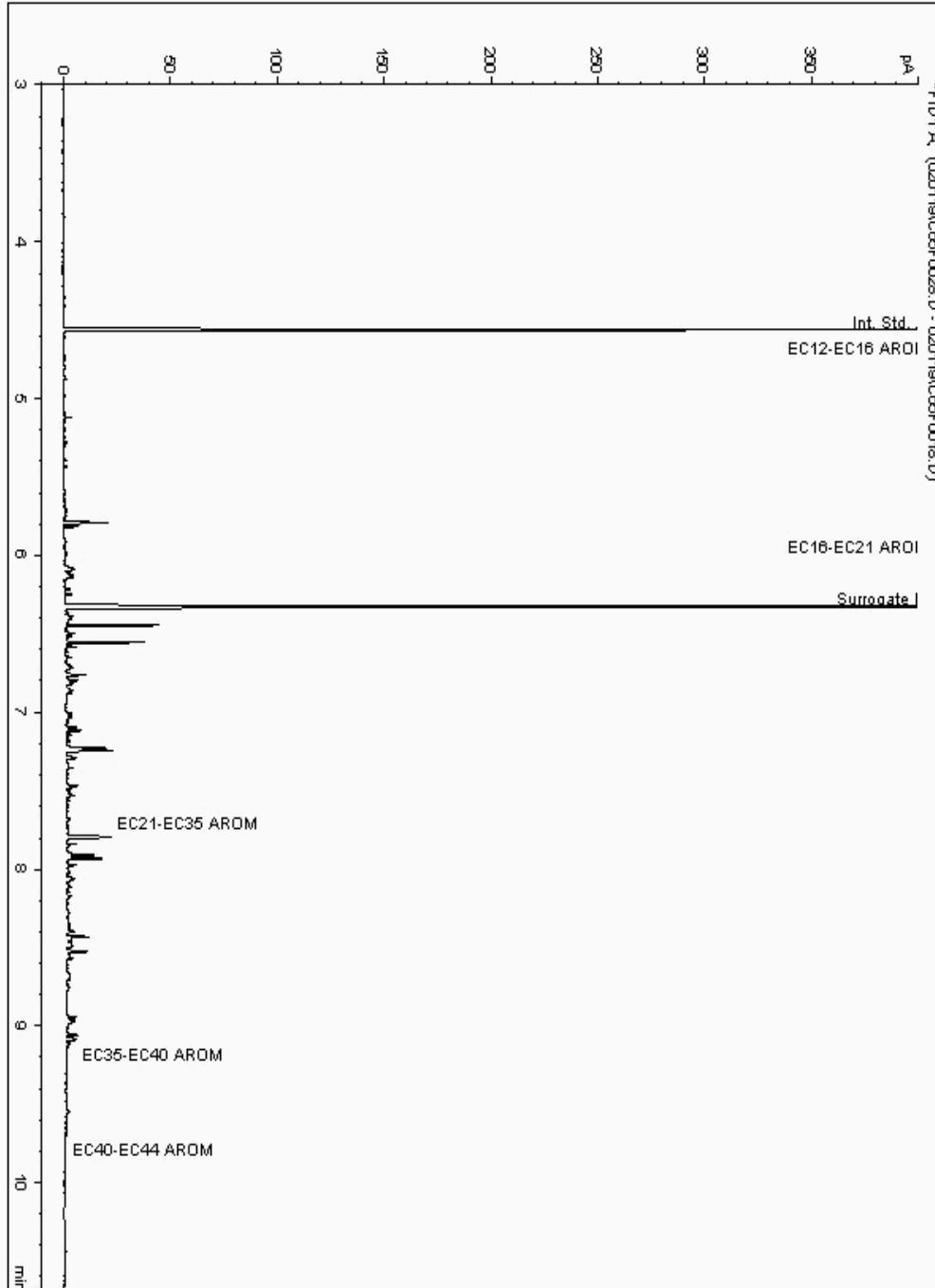
Analysis: EPH CWG (Aromatic) GC (S)
19207942

Sample No :
Sample ID : BH237

19,207,942Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040866-
Date Acquired : 01/02/2019 18:04:48 PM
Units : ppb
Dilution: BH237[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

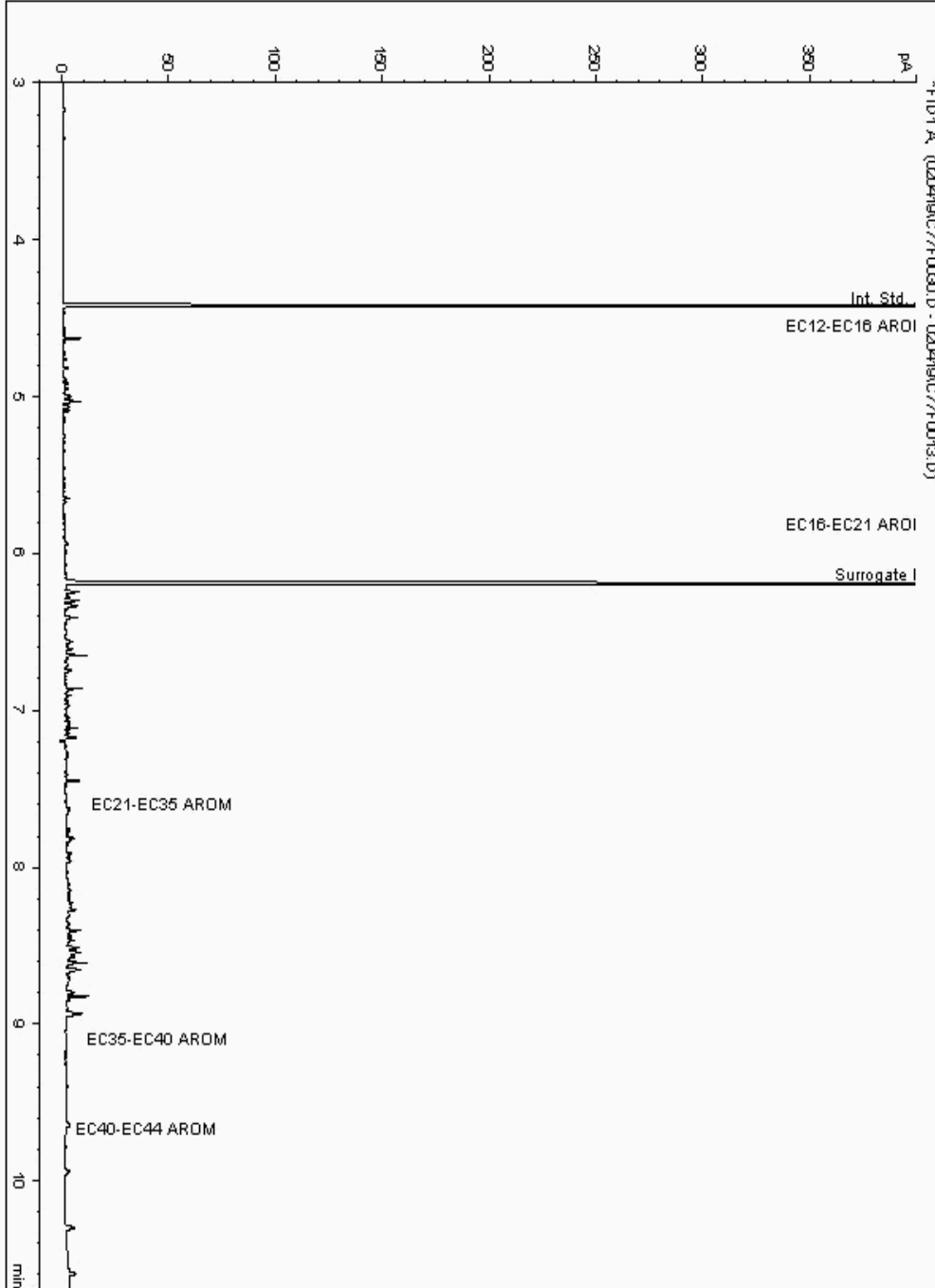
Analysis: EPH CWG (Aromatic) GC (S)
19208028

Sample No :
Sample ID : BH230

19,208,028 Depth : 4.00 - 5.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18039950-
Date Acquired : 04/02/2019 18:44:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

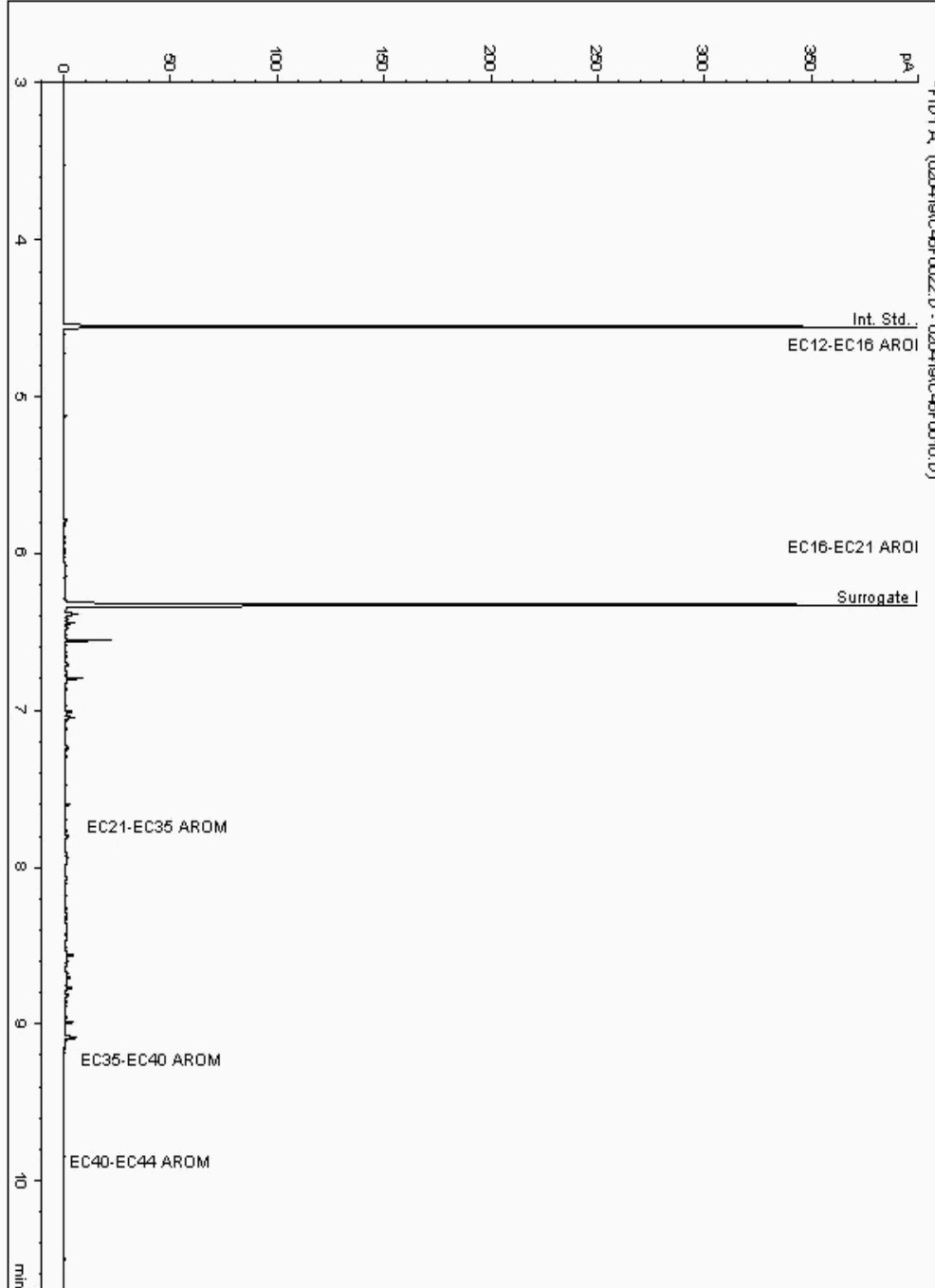
Analysis: EPH CWG (Aromatic) GC (S)
19208083

Sample No :
Sample ID : BH237

19,208,083 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040889-
Date Acquired : 04/02/2019 18:09:30 PM
Units : ppb
Dilution: BH237[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

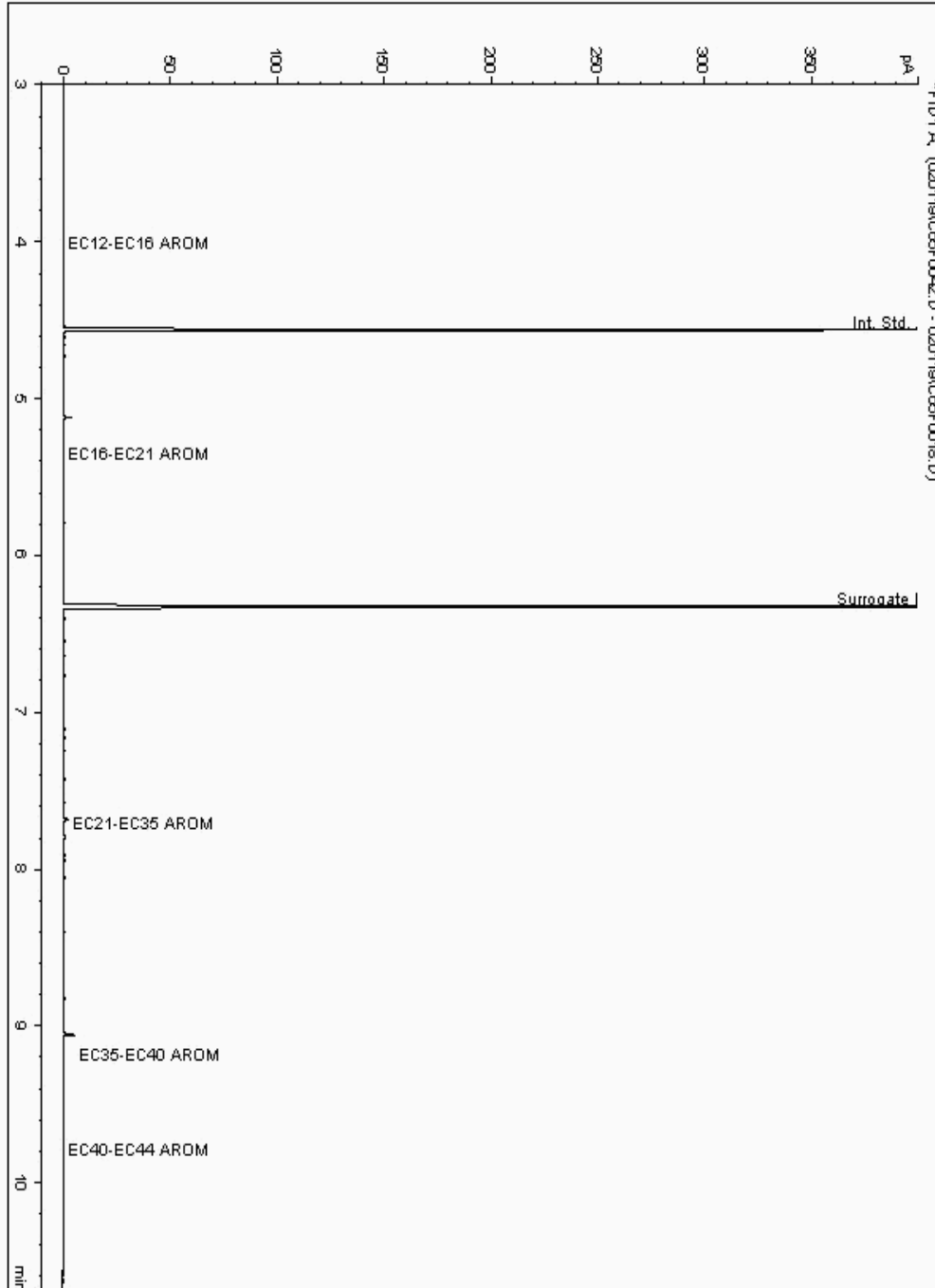
Analysis: EPH CWG (Aromatic) GC (S)
19208208

Sample No :
Sample ID : BH230

19,208,208Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040196-
Date Acquired : 01/02/2019 22:17:53 PM
Units : ppb
Dilution: BH230[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

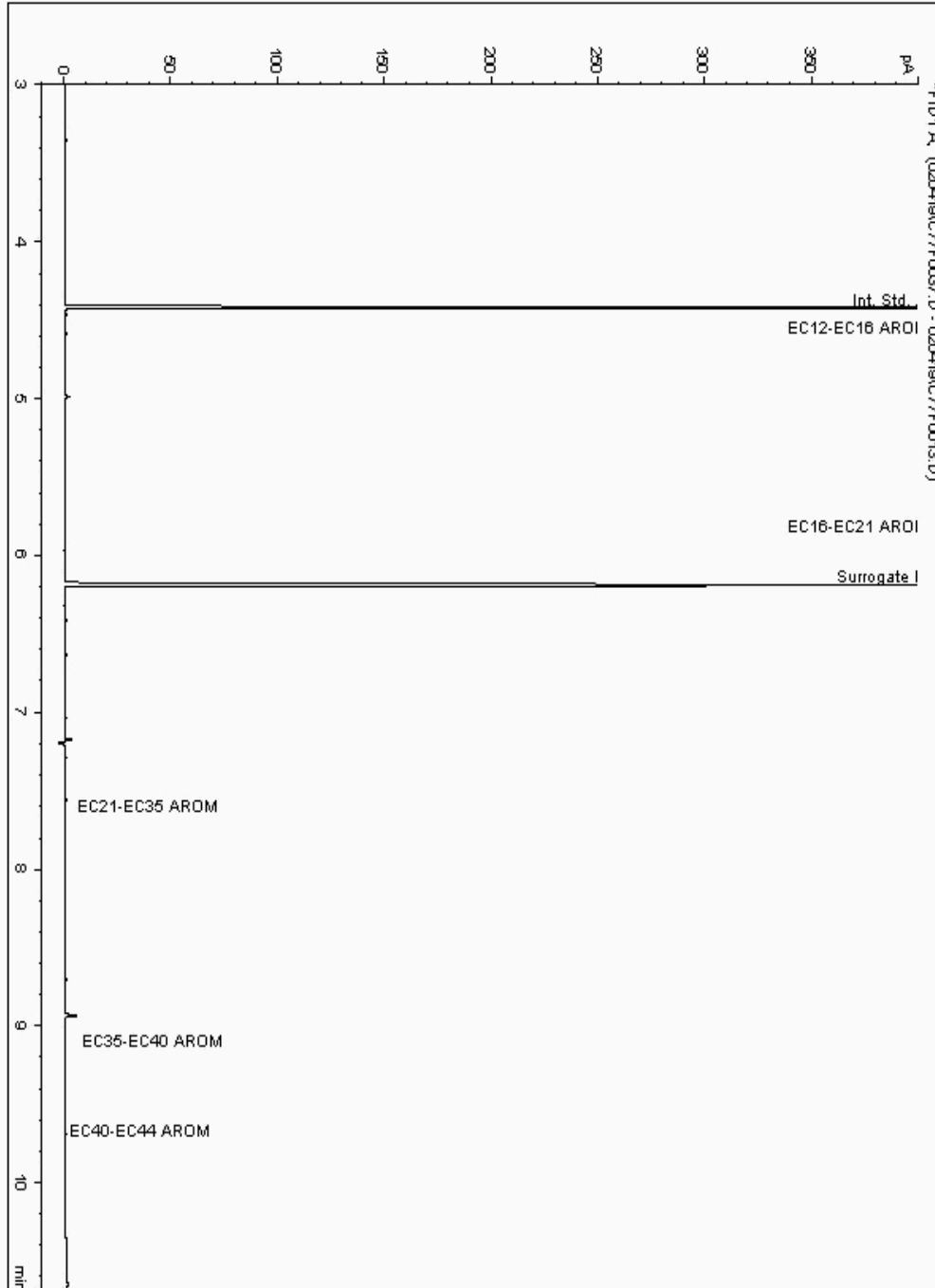
Analysis: EPH CWG (Aromatic) GC (S)
19208259

Sample No :
Sample ID : BH231

19,208,259 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040502-
Date Acquired : 04/02/2019 20:49:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

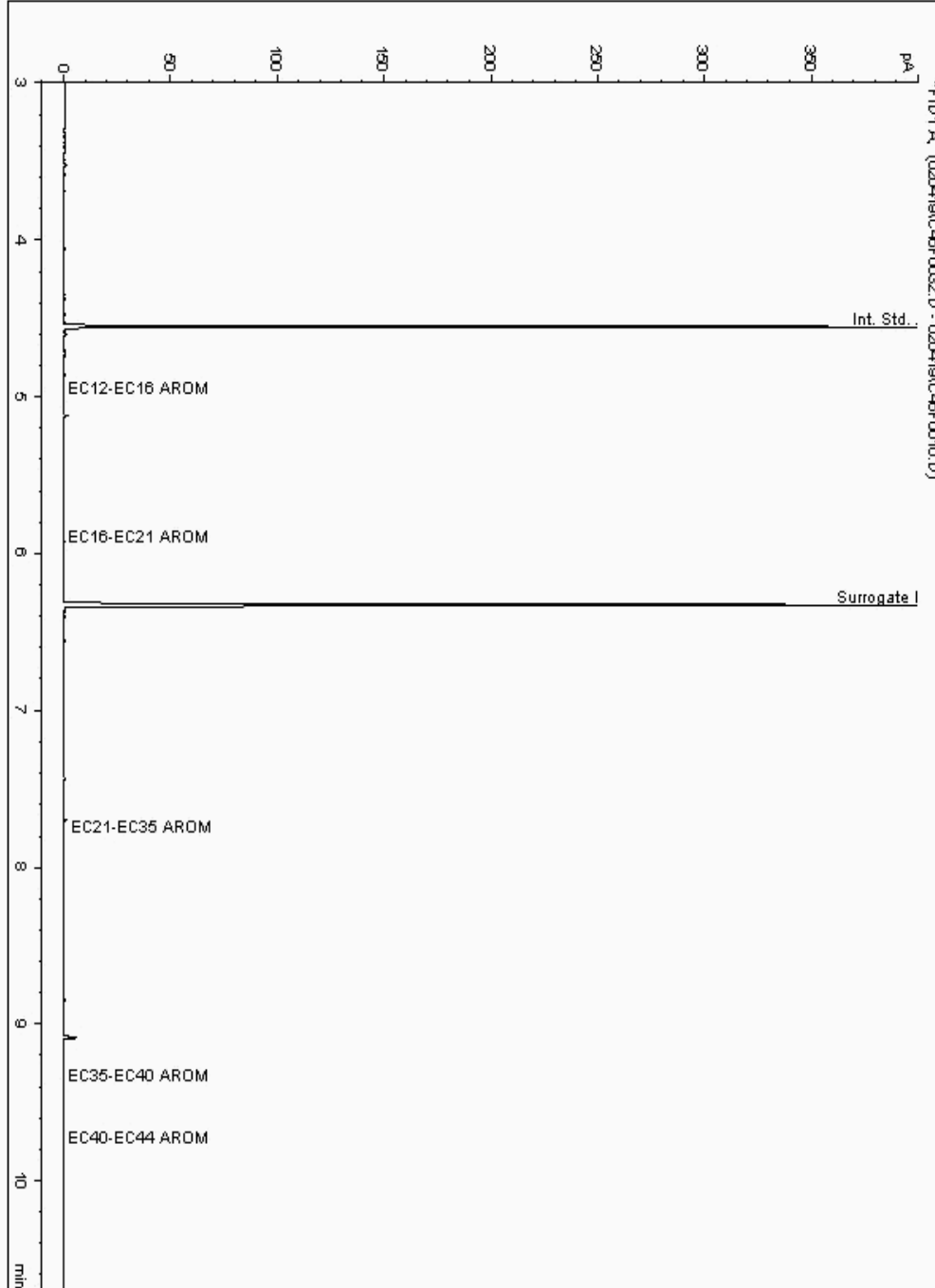
Analysis: EPH CWG (Aromatic) GC (S)
19208289

Sample No :
Sample ID : BH230

19,208,289Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040144-
Date Acquired : 04/02/2019 21:14:31 PM
Units : ppb
Dilution: BH230[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

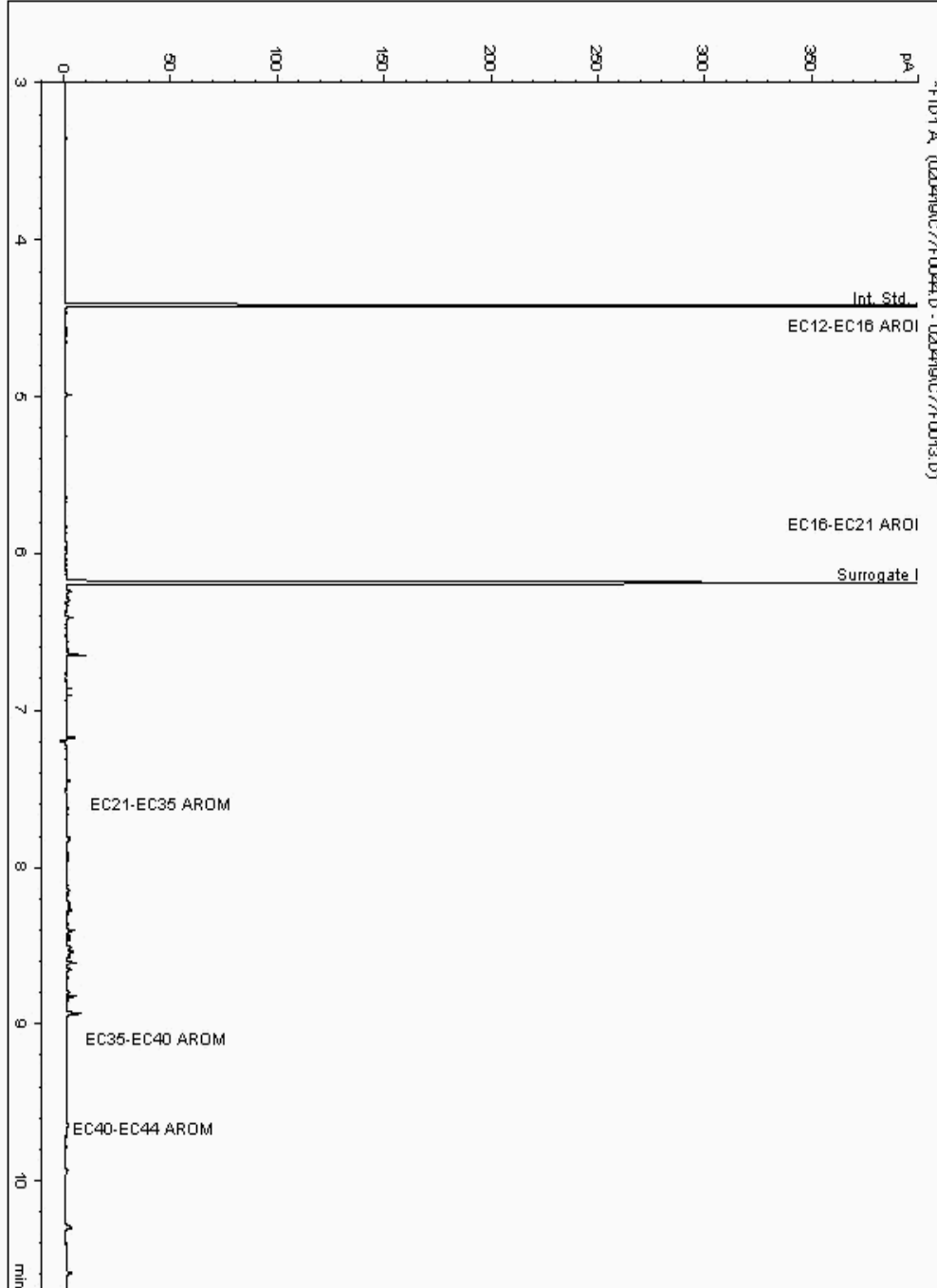
Analysis: EPH CWG (Aromatic) GC (S)
19208342

Sample No :
Sample ID : BH237

19,208,342 Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041029-
Date Acquired : 04/02/2019 22:52:56 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

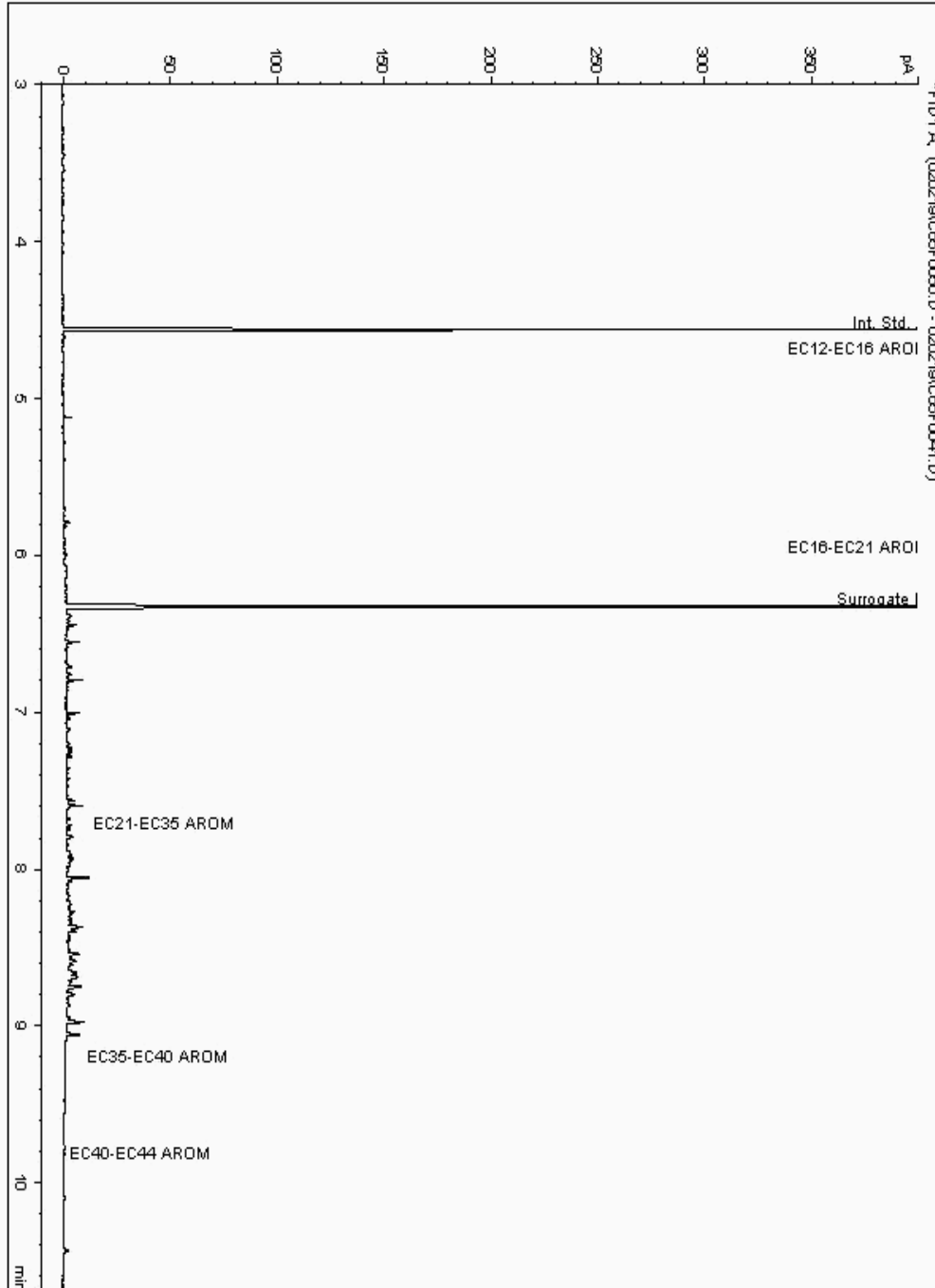
Analysis: EPH CWG (Aromatic) GC (S)
19208357

Sample No :
Sample ID : BH230

19,208,357Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18039874-
Date Acquired : 04/02/2019 13:16:18 PM
Units : ppb
Dilution: BH230[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

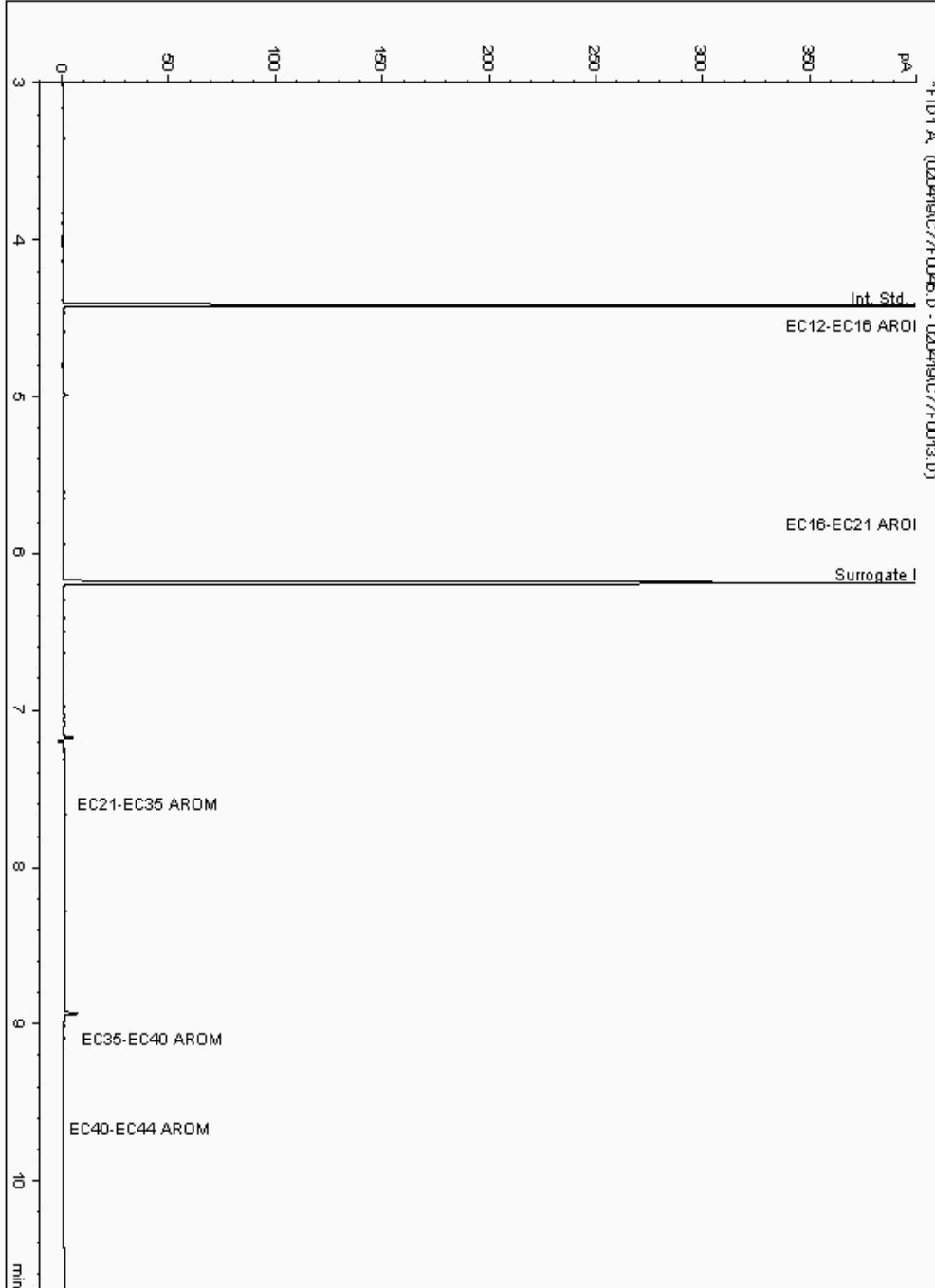
Analysis: EPH CWG (Aromatic) GC (S)
19208369

Sample No :
Sample ID : BH231

19,208,369 Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040525-
Date Acquired : 04/02/2019 23:13:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

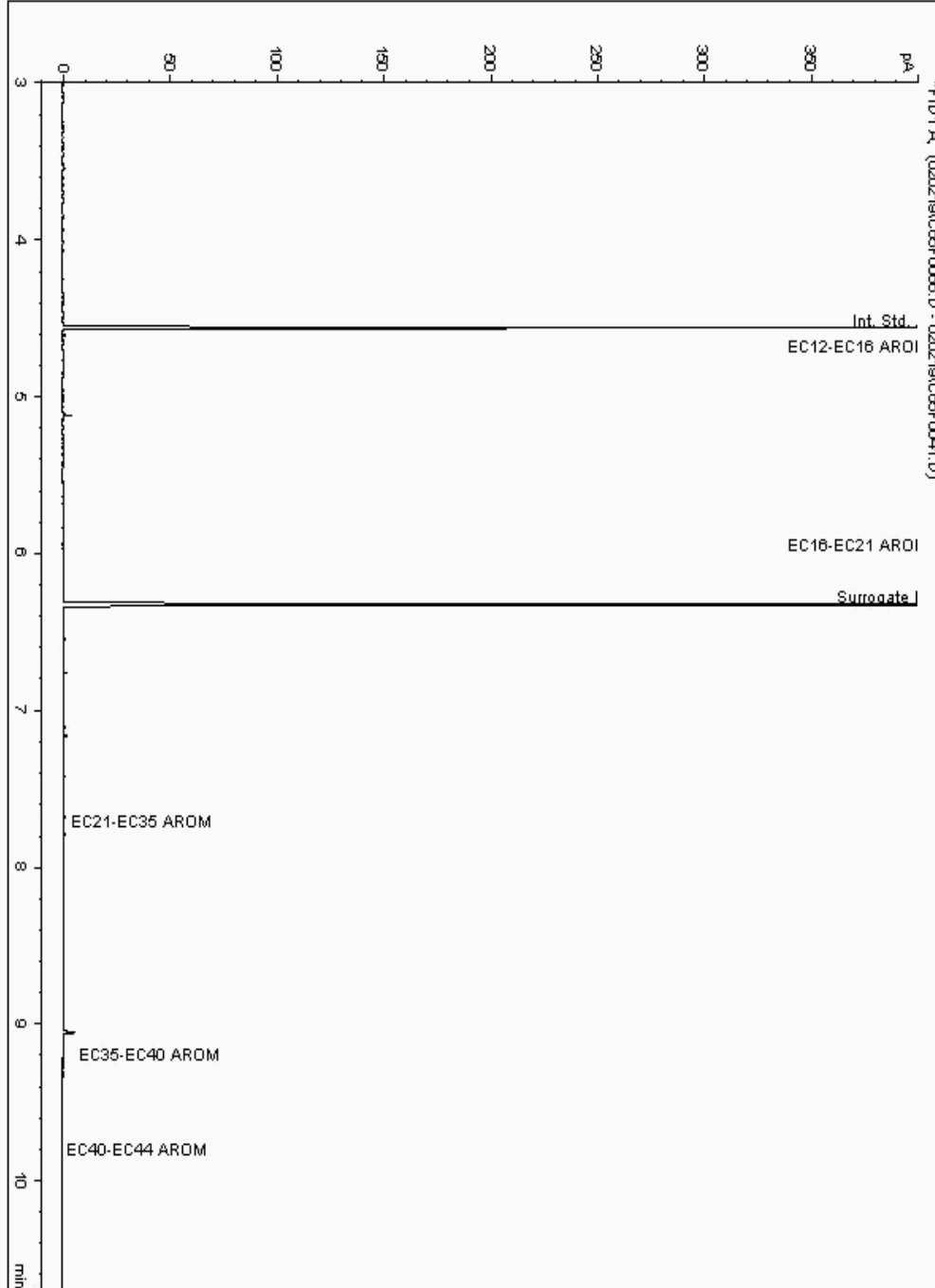
Analysis: EPH CWG (Aromatic) GC (S)
19208454

Sample No :
Sample ID : BH230

19,208,454 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040171-
Date Acquired : 04/02/2019 18:22:39 PM
Units : ppb
Dilution: BH230[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

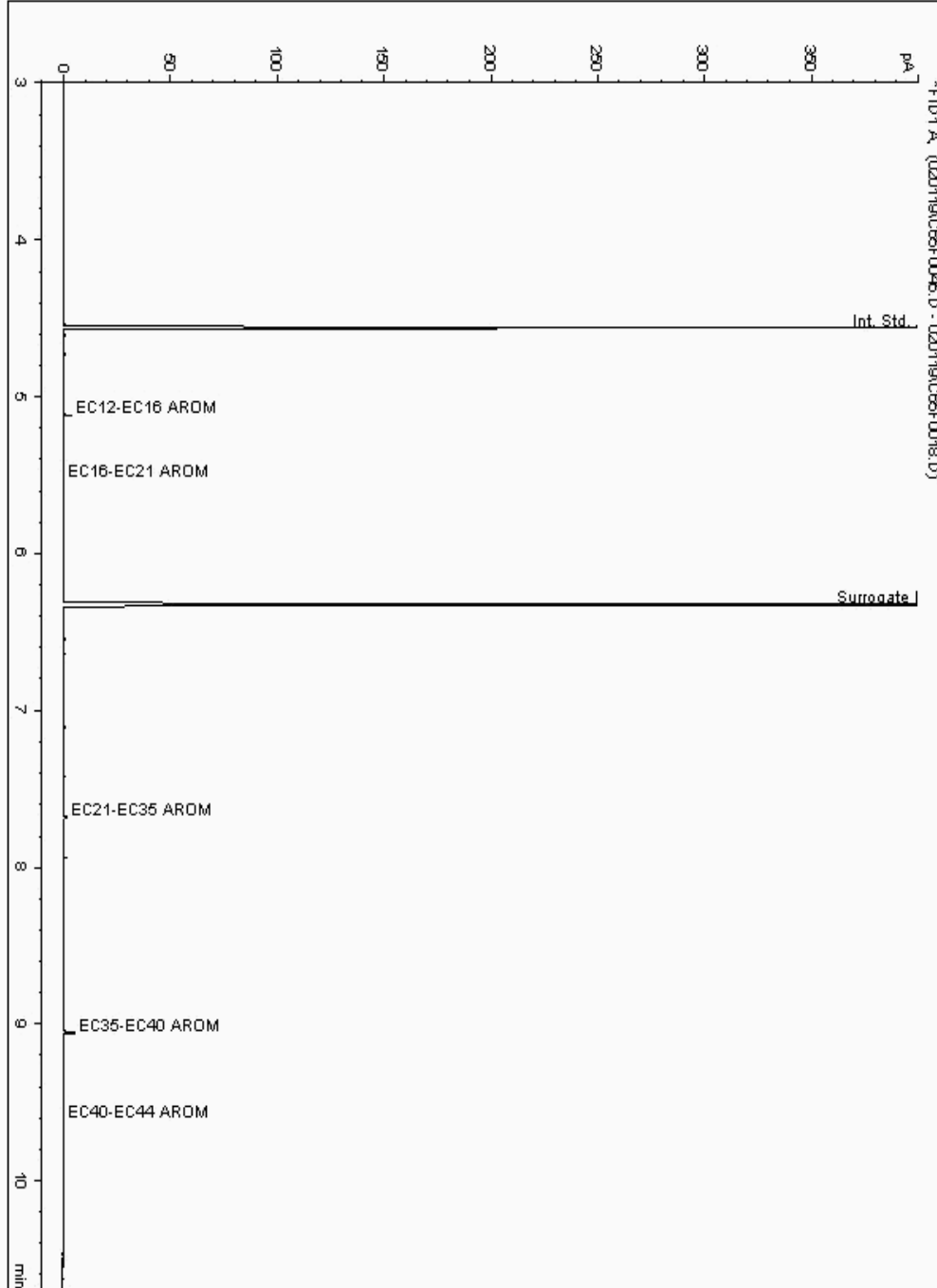
Analysis: EPH CWG (Aromatic) GC (S)
19208496

Sample No :
Sample ID : BH238

19,208,496Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041535-
Date Acquired : 01/02/2019 23:11:04 PM
Units : ppb
Dilution: BH238[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

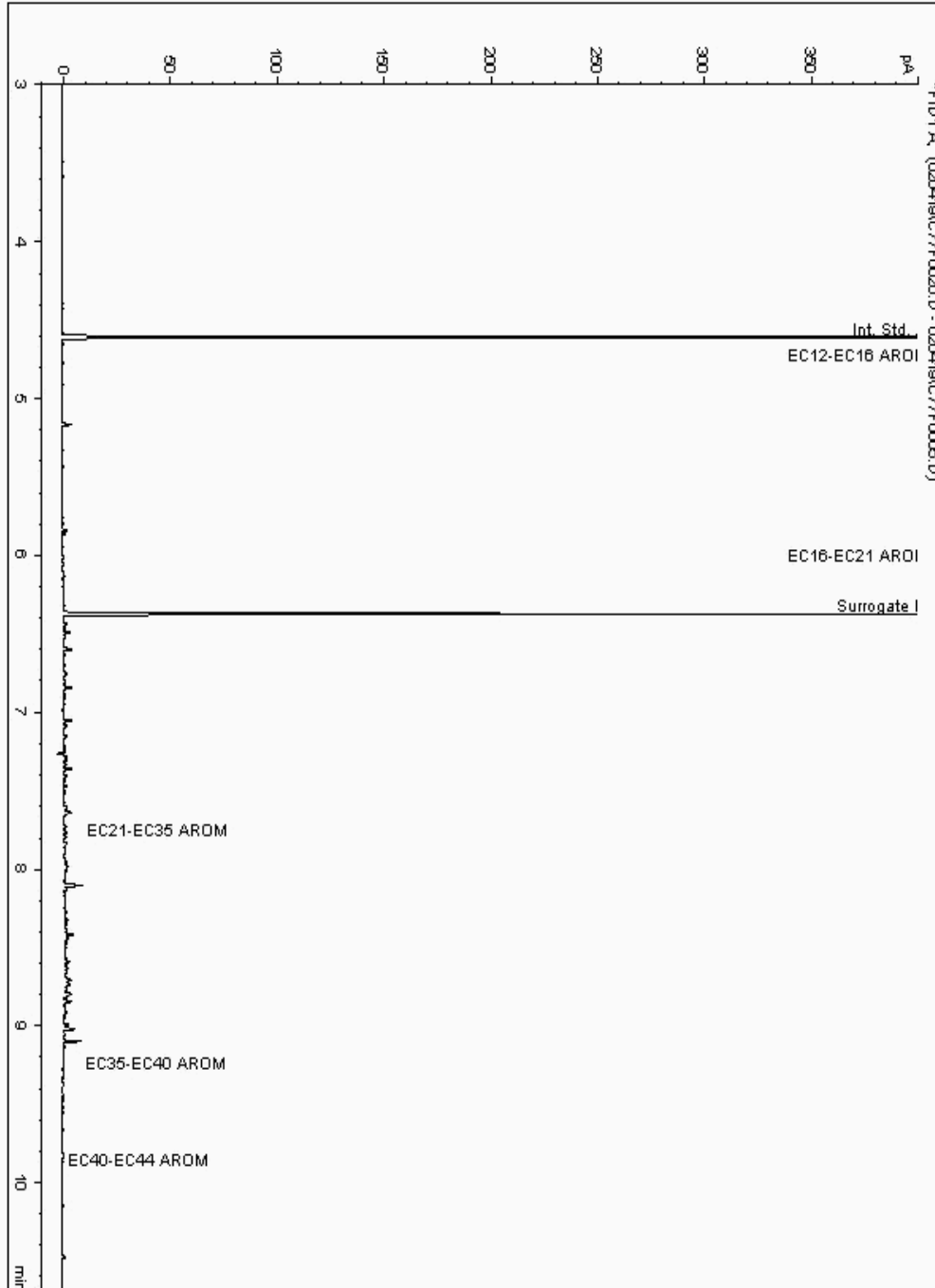
Analysis: EPH CWG (Aromatic) GC (S)
19208531

Sample No :
Sample ID : BH230

19,208,531 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18039900-
Date Acquired : 2/4/2019 3:11:02 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

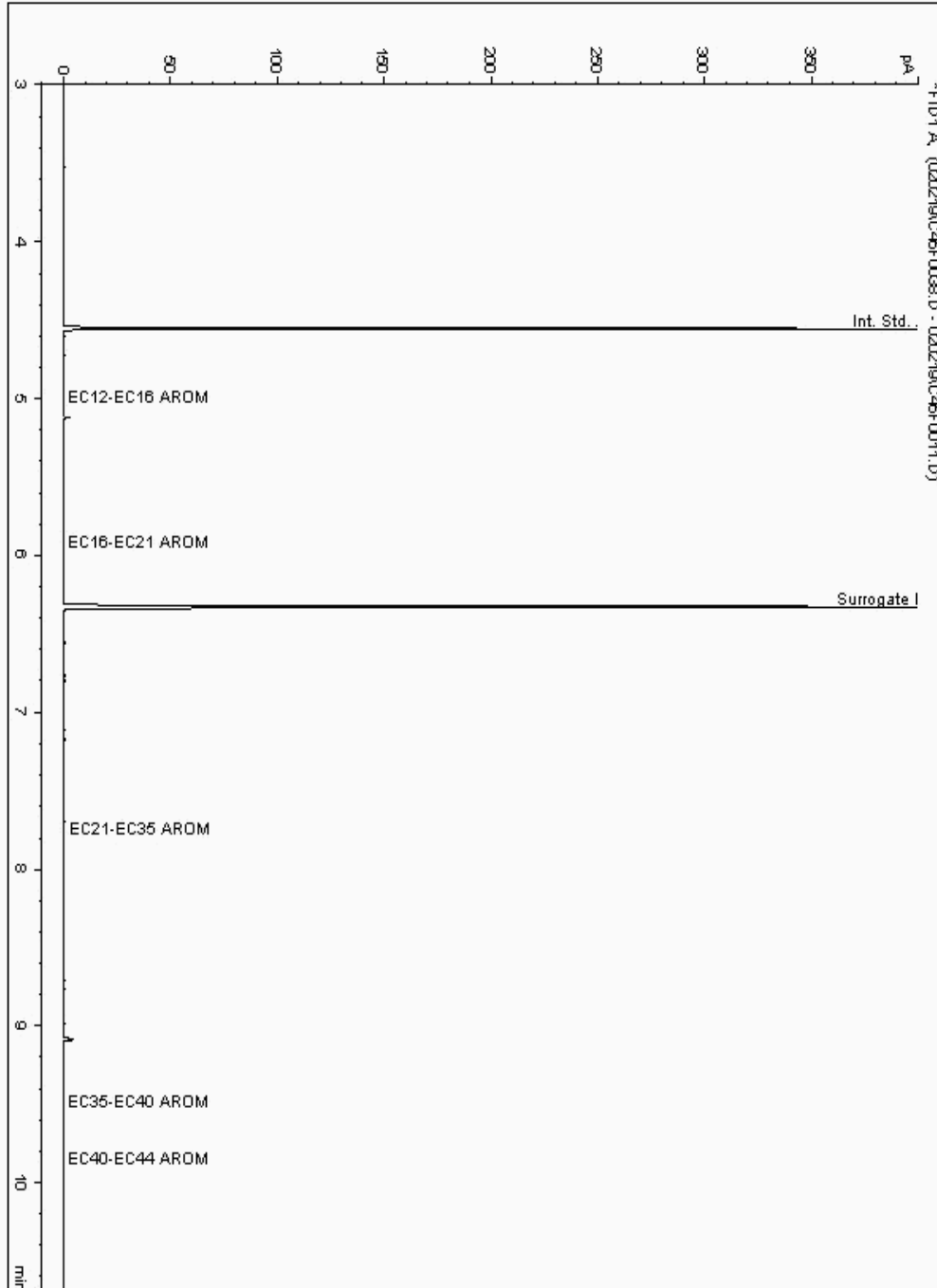
Analysis: EPH CWG (Aromatic) GC (S)
19208548

Sample No :
Sample ID : BH237

19,208,548 Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041092-
Date Acquired : 02/02/2019 19:59:10 PM
Units : ppb
Dilution: BH237[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

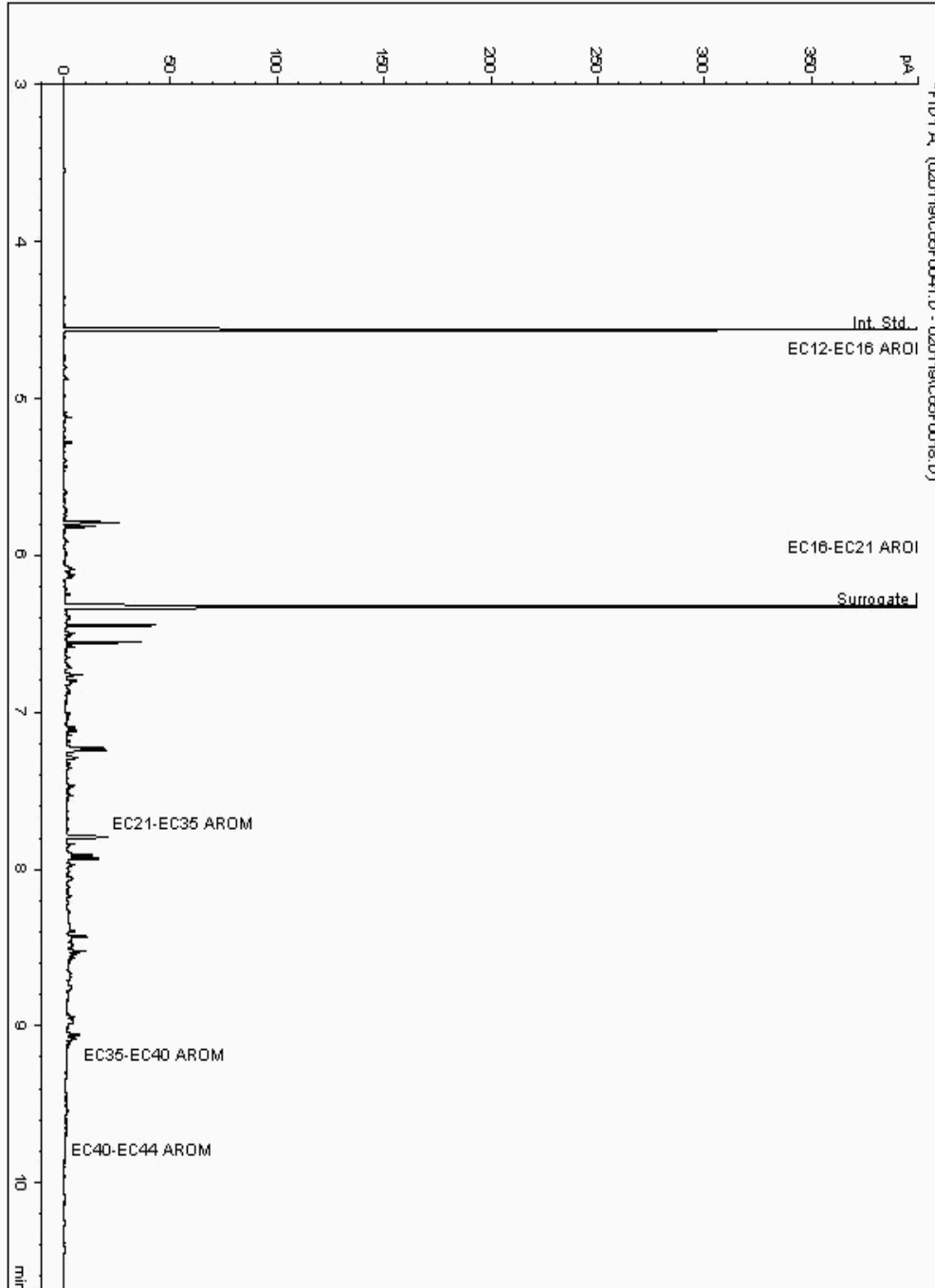
Analysis: EPH CWG (Aromatic) GC (S)
19208632

Sample No :
Sample ID : BH230

19,208,632Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18039742-
Date Acquired : 01/02/2019 21:57:28 PM
Units : ppb
Dilution: BH230[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

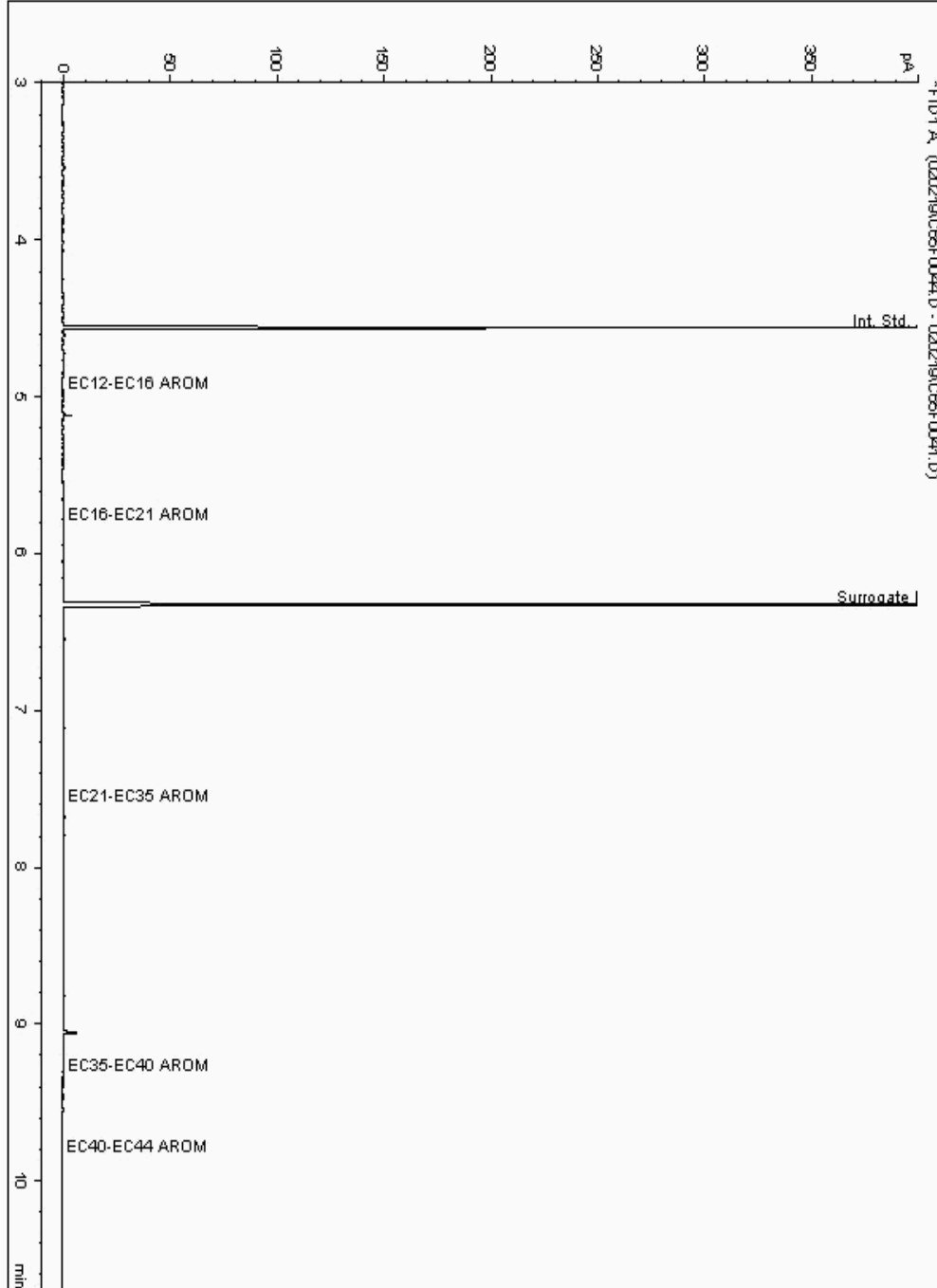
Analysis: EPH CWG (Aromatic) GC (S)
19208634

Sample No :
Sample ID : BH238

19,208,634 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041592-
Date Acquired : 04/02/2019 11:21:58 PM
Units : ppb
Dilution: BH238[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

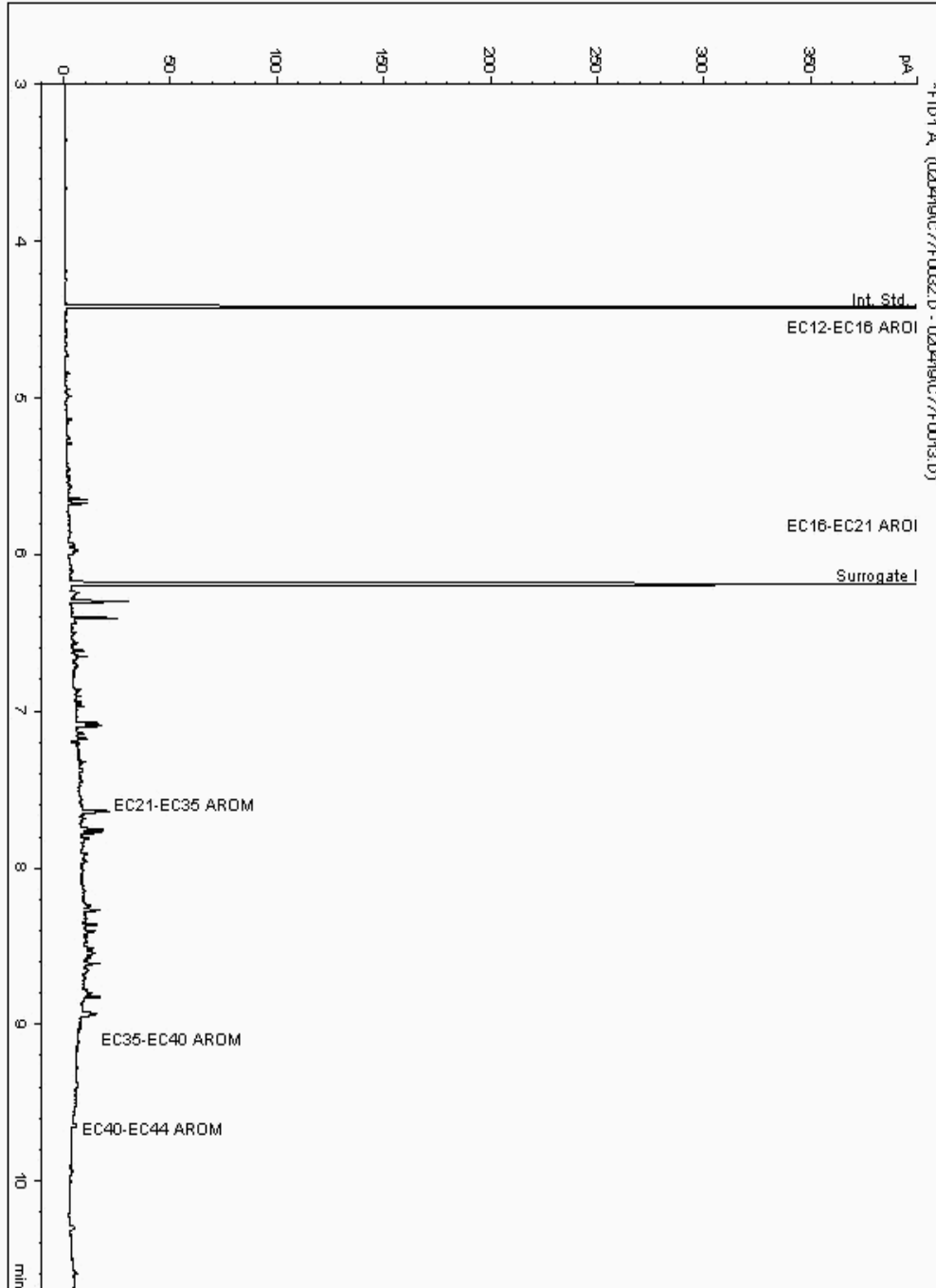
Analysis: EPH CWG (Aromatic) GC (S)
19208677

Sample No :
Sample ID : BH236

19,208,677Depth :0.50 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040572-
Date Acquired : 04/02/2019 19:16:45 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

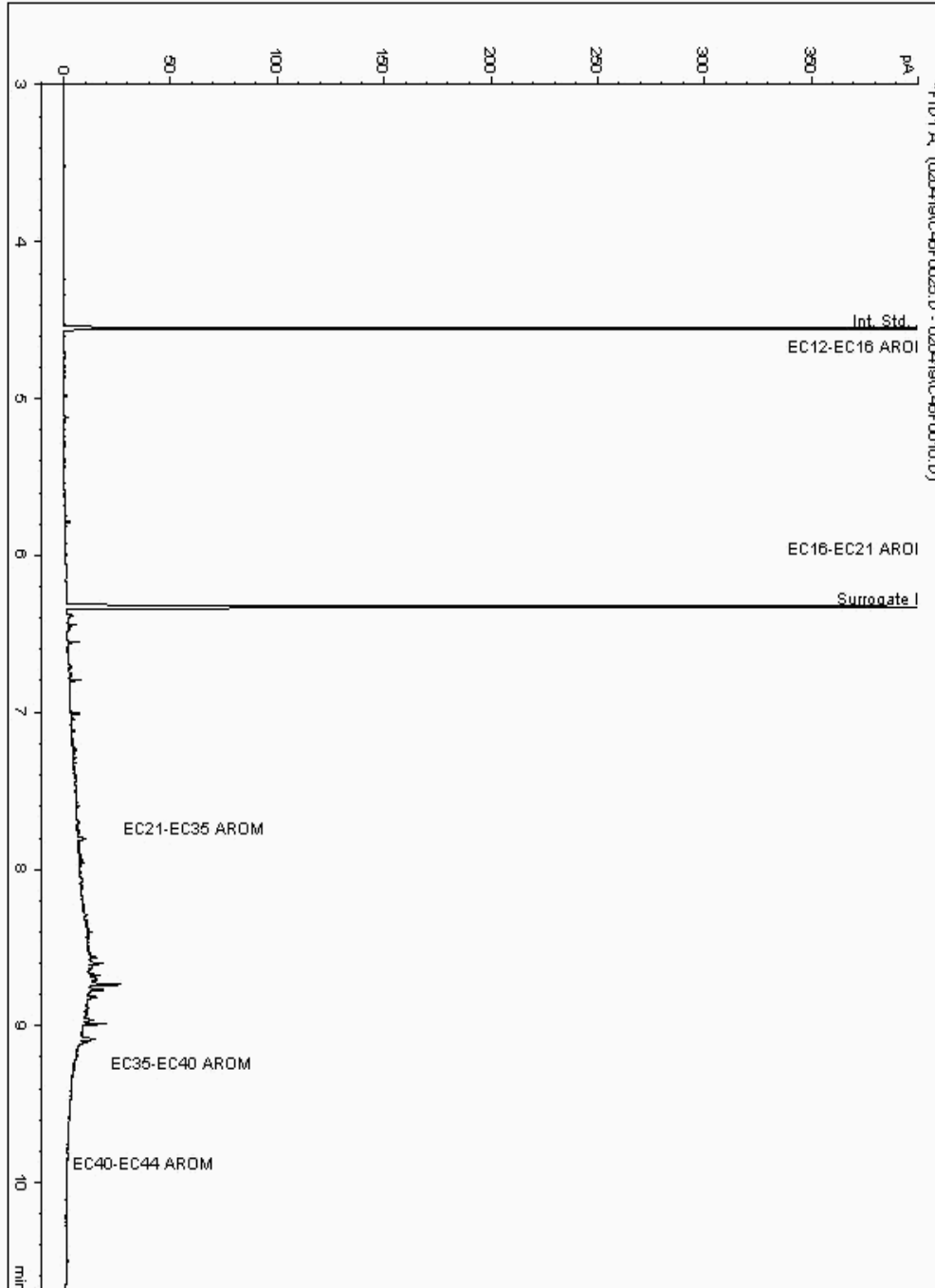
Analysis: EPH CWG (Aromatic) GC (S)
19208688

Sample No :
Sample ID : BH230

19,208,688Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18039778-
Date Acquired : 04/02/2019 19:01:30 PM
Units : ppb
Dilution: BH230[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

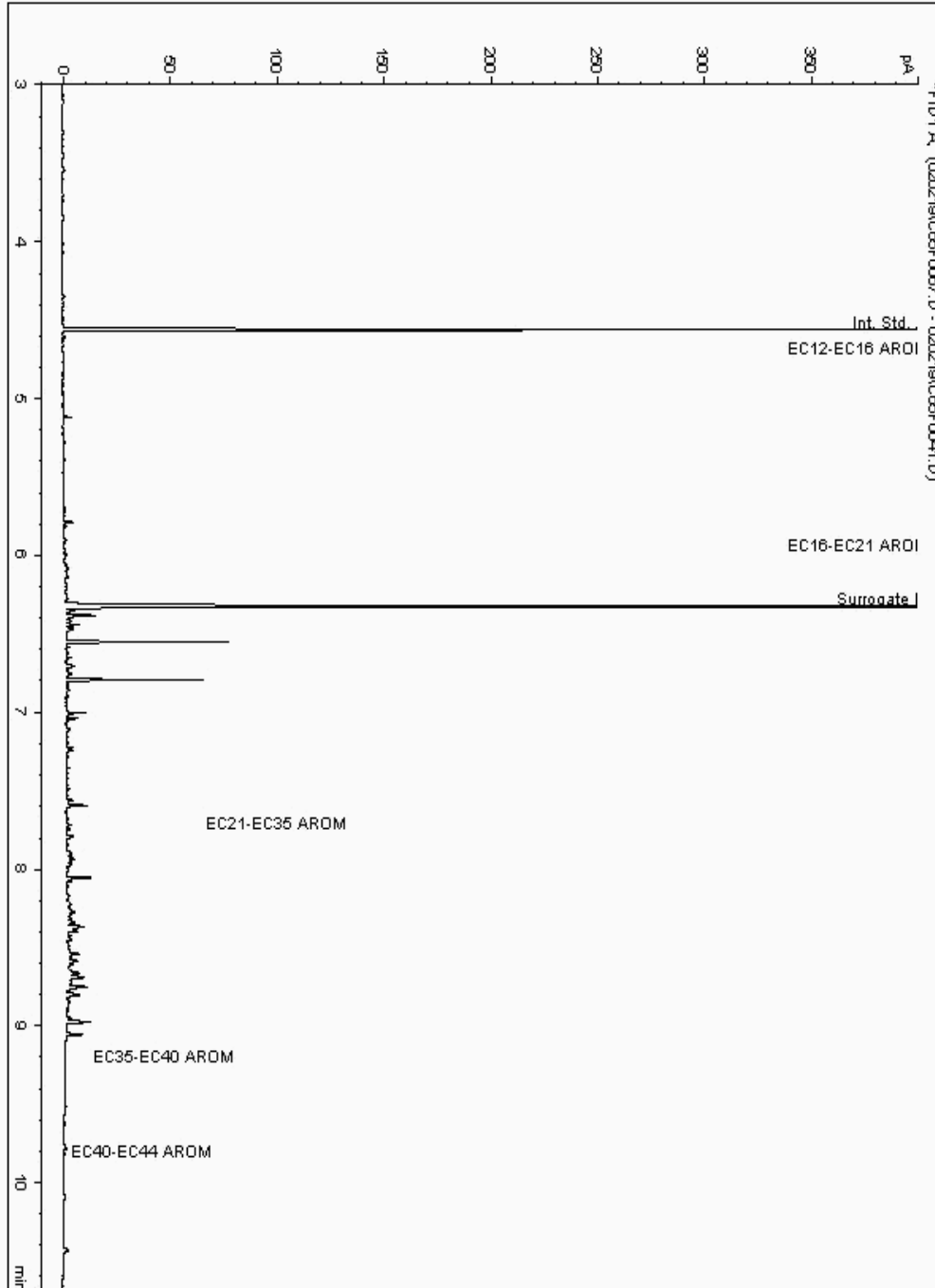
Analysis: EPH CWG (Aromatic) GC (S)
19208723

Sample No :
Sample ID : BH237

19,208,723 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040938-
Date Acquired : 04/02/2019 18:42:58 PM
Units : ppb
Dilution: BH237[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

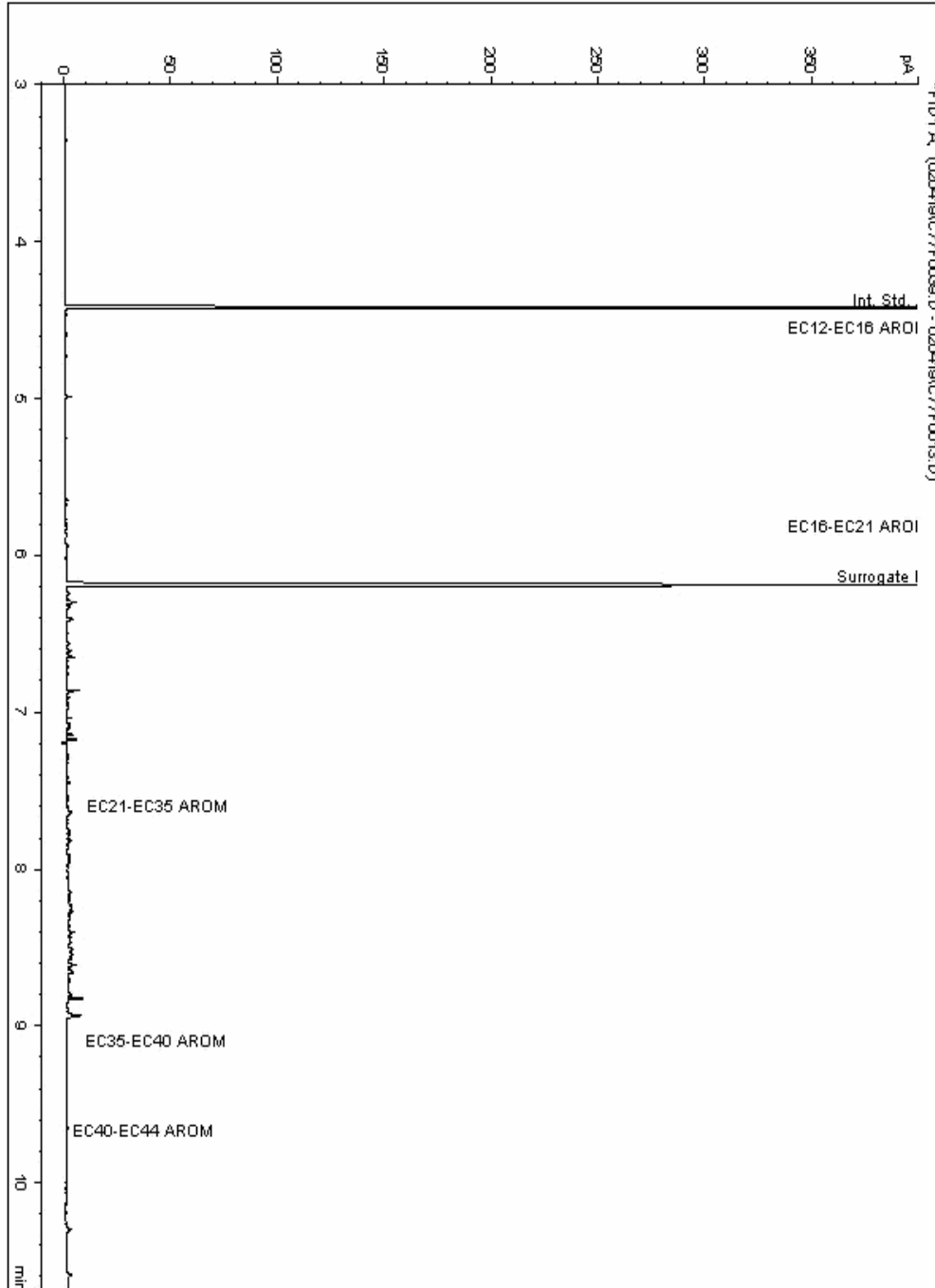
Analysis: EPH CWG (Aromatic) GC (S)
19208744

Sample No :
Sample ID : BH230

19,208,744Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18039830-
Date Acquired : 04/02/2019 21:29:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

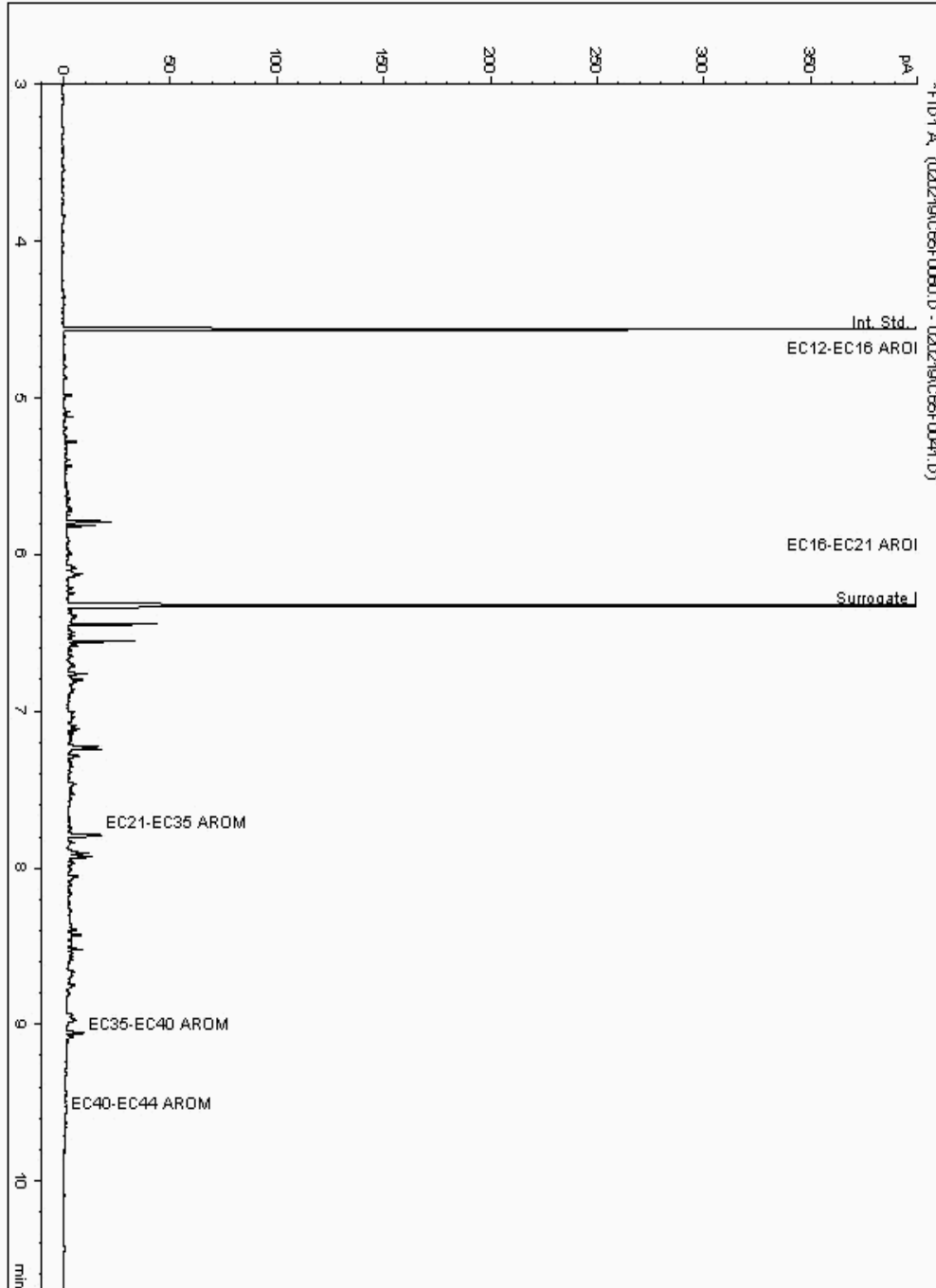
Analysis: EPH CWG (Aromatic) GC (S)
19208749

Sample No :
Sample ID : BH236

19,208,749Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040548-
Date Acquired : 04/02/2019 16:36:45 PM
Units : ppb
Dilution: BH236[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

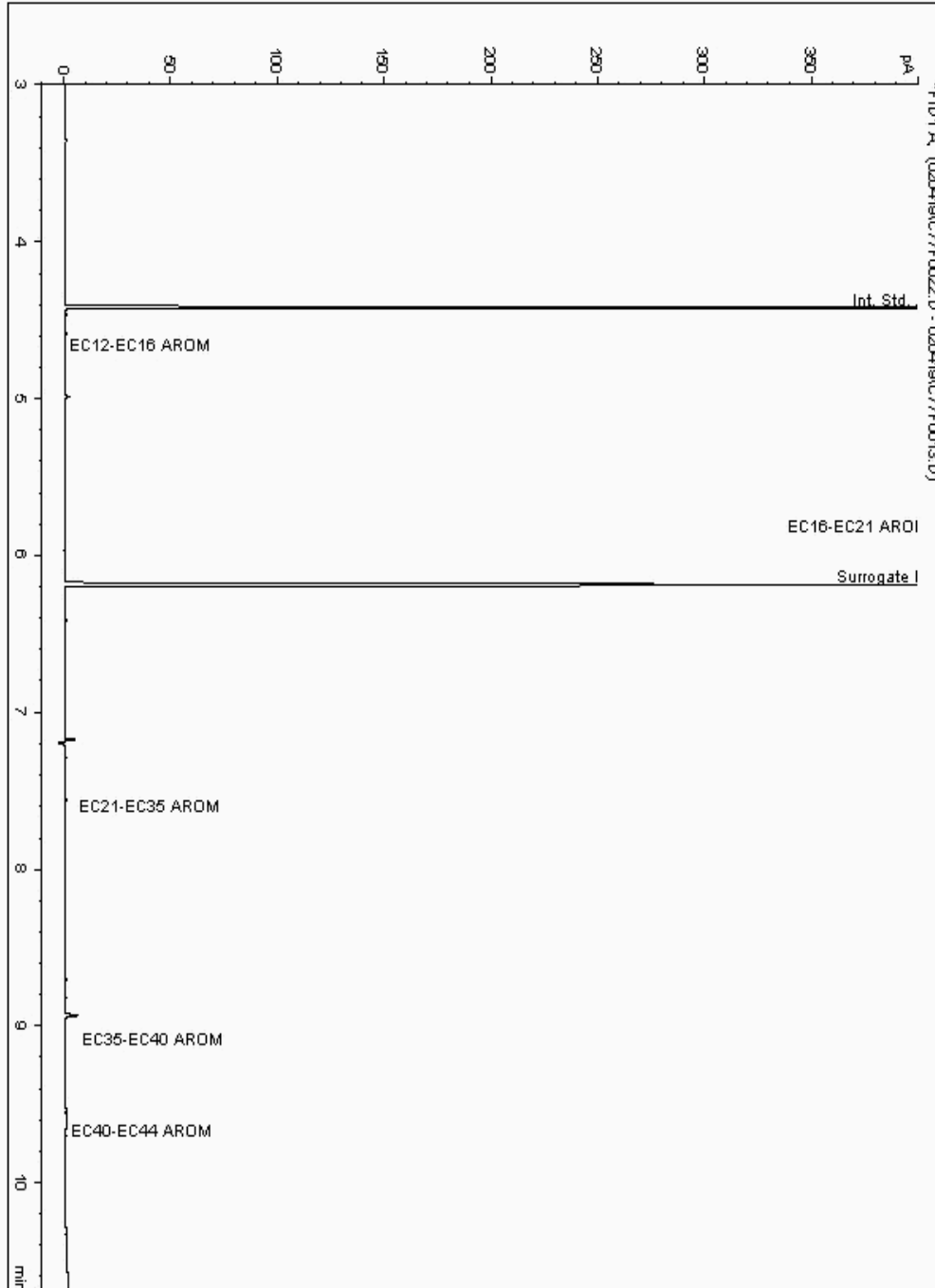
Analysis: EPH CWG (Aromatic) GC (S)
19208794

Sample No :
Sample ID : BH237

19,208,794Depth :8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041145-
Date Acquired : 04/02/2019 16:35:51 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

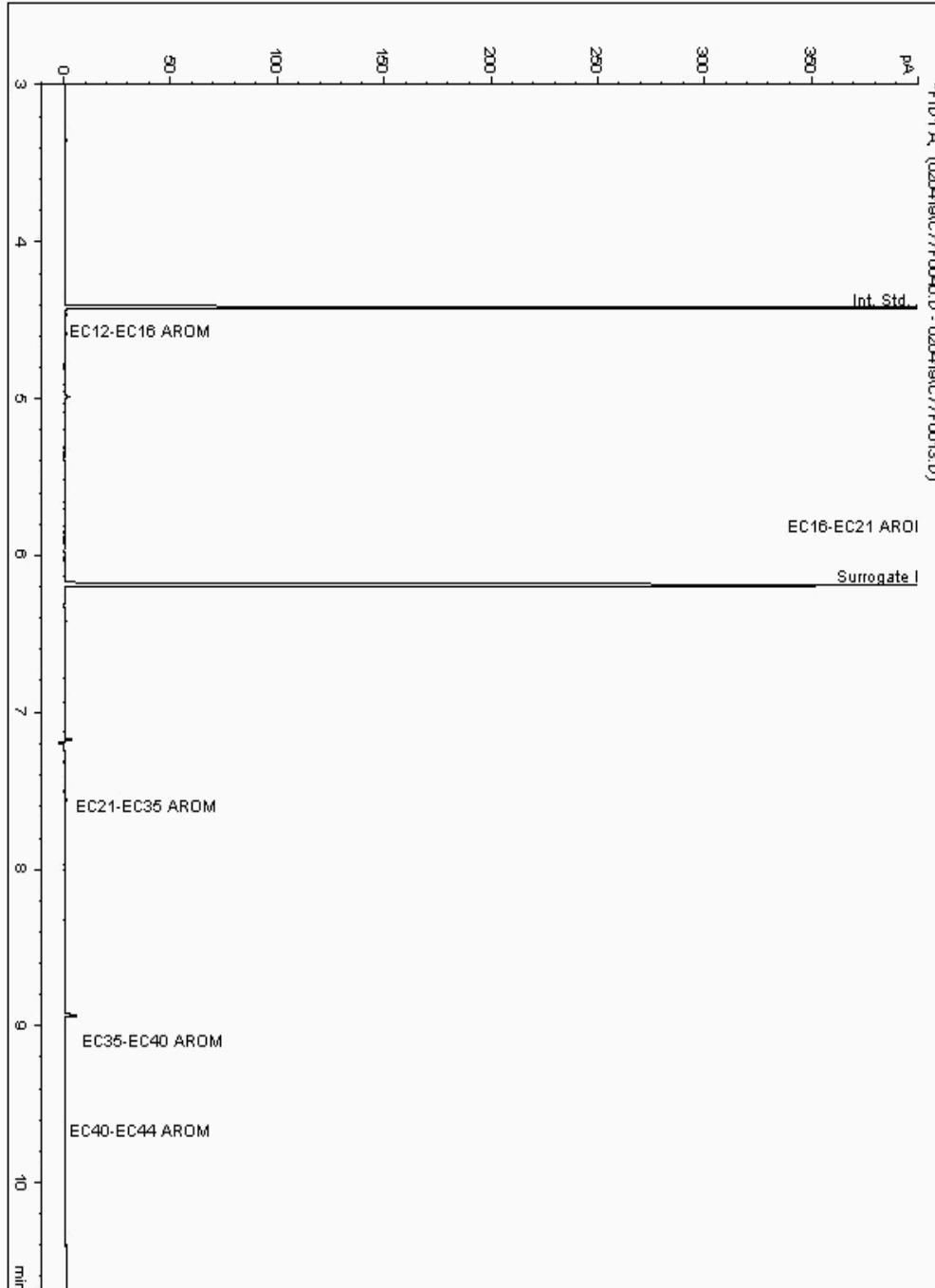
Analysis: EPH CWG (Aromatic) GC (S)
19208804

Sample No :
Sample ID : BH238

19,208,804 Depth : 11.00 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041512-
Date Acquired : 04/02/2019 21:49:11 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

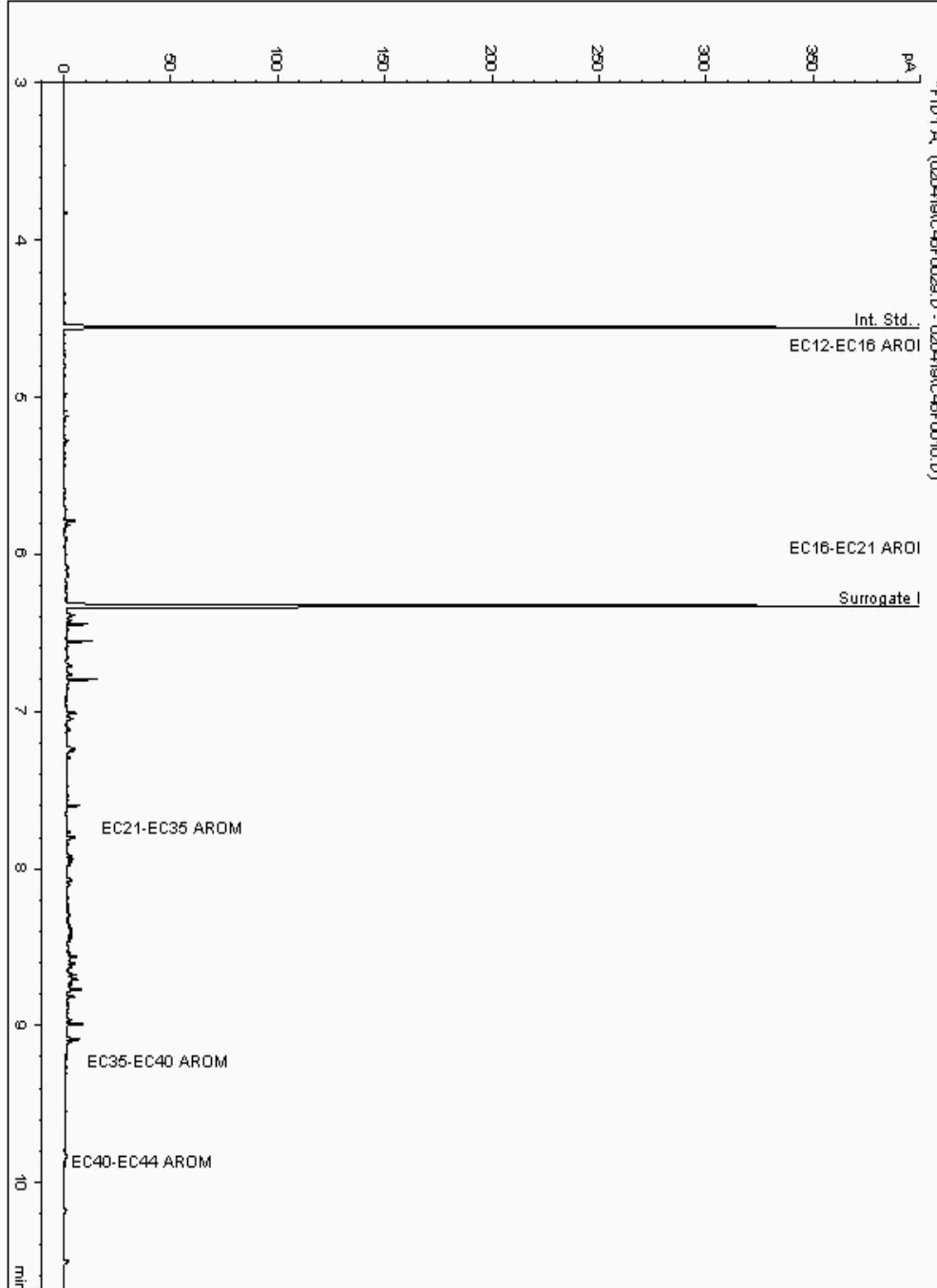
Analysis: EPH CWG (Aromatic) GC (S)
19208896

Sample No :
Sample ID : BH236

19,208,896Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040620-
Date Acquired : 04/02/2019 20:22:07 PM
Units : ppb
Dilution: BH236[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

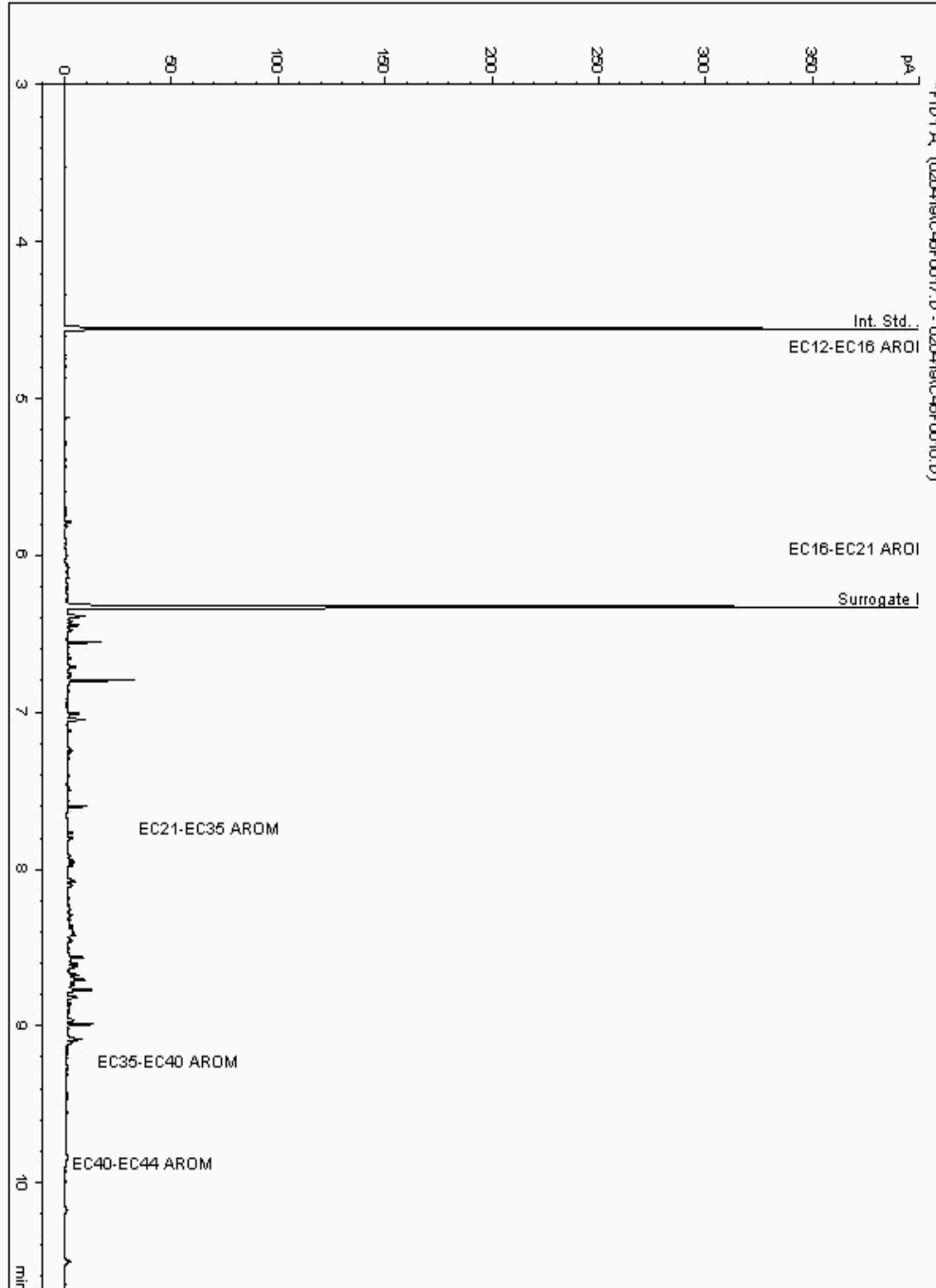
Analysis: EPH CWG (Aromatic) GC (S)
19208940

Sample No :
Sample ID : BH237

19,208,940Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040982-
Date Acquired : 04/02/2019 16:36:21 PM
Units : ppb
Dilution: BH237[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

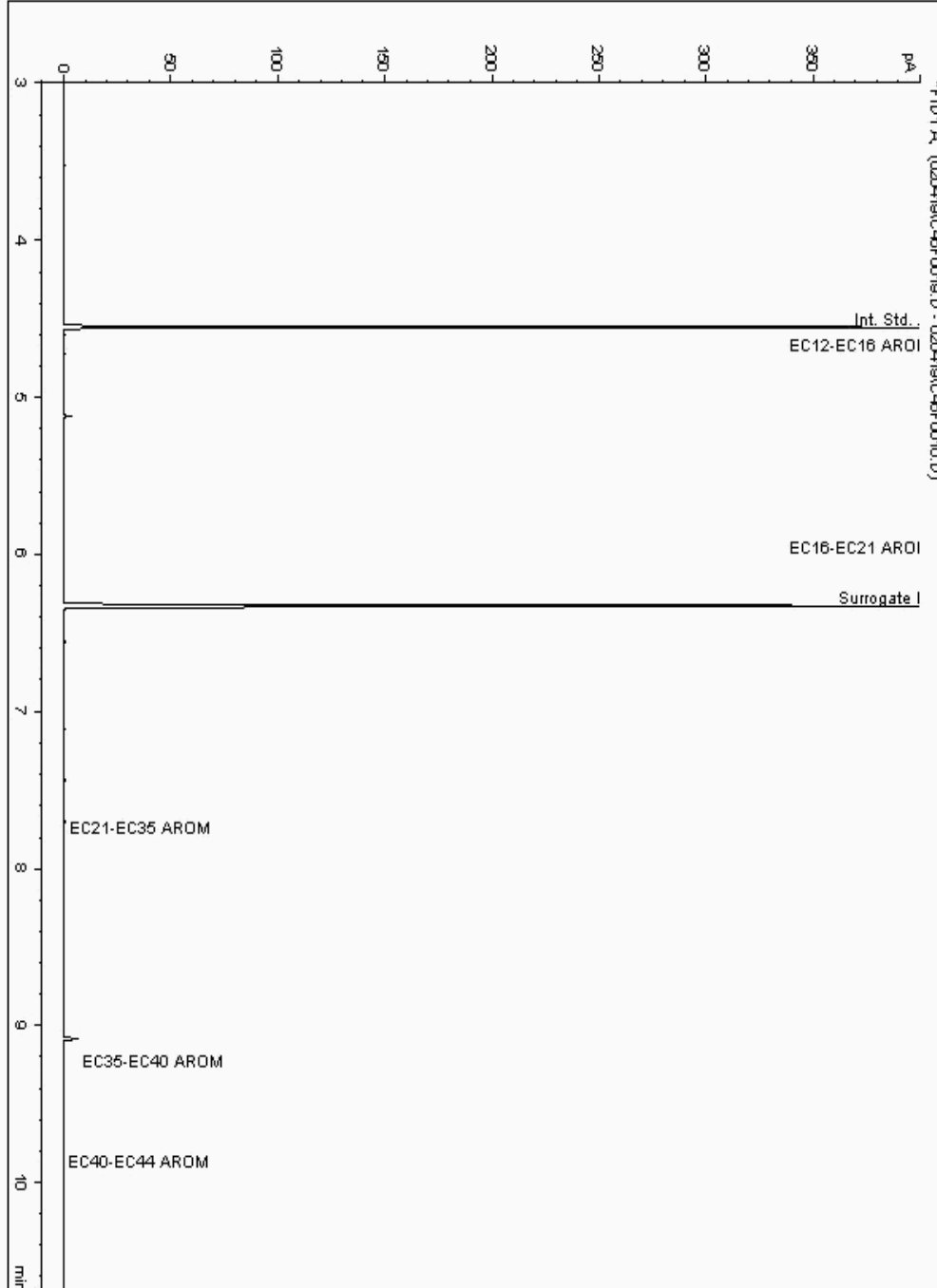
Analysis: EPH CWG (Aromatic) GC (S)
19208953

Sample No :
Sample ID : BH237

19,208,953 Depth : 9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041188-
Date Acquired : 04/02/2019 17:08:58 PM
Units : ppb
Dilution: BH237[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

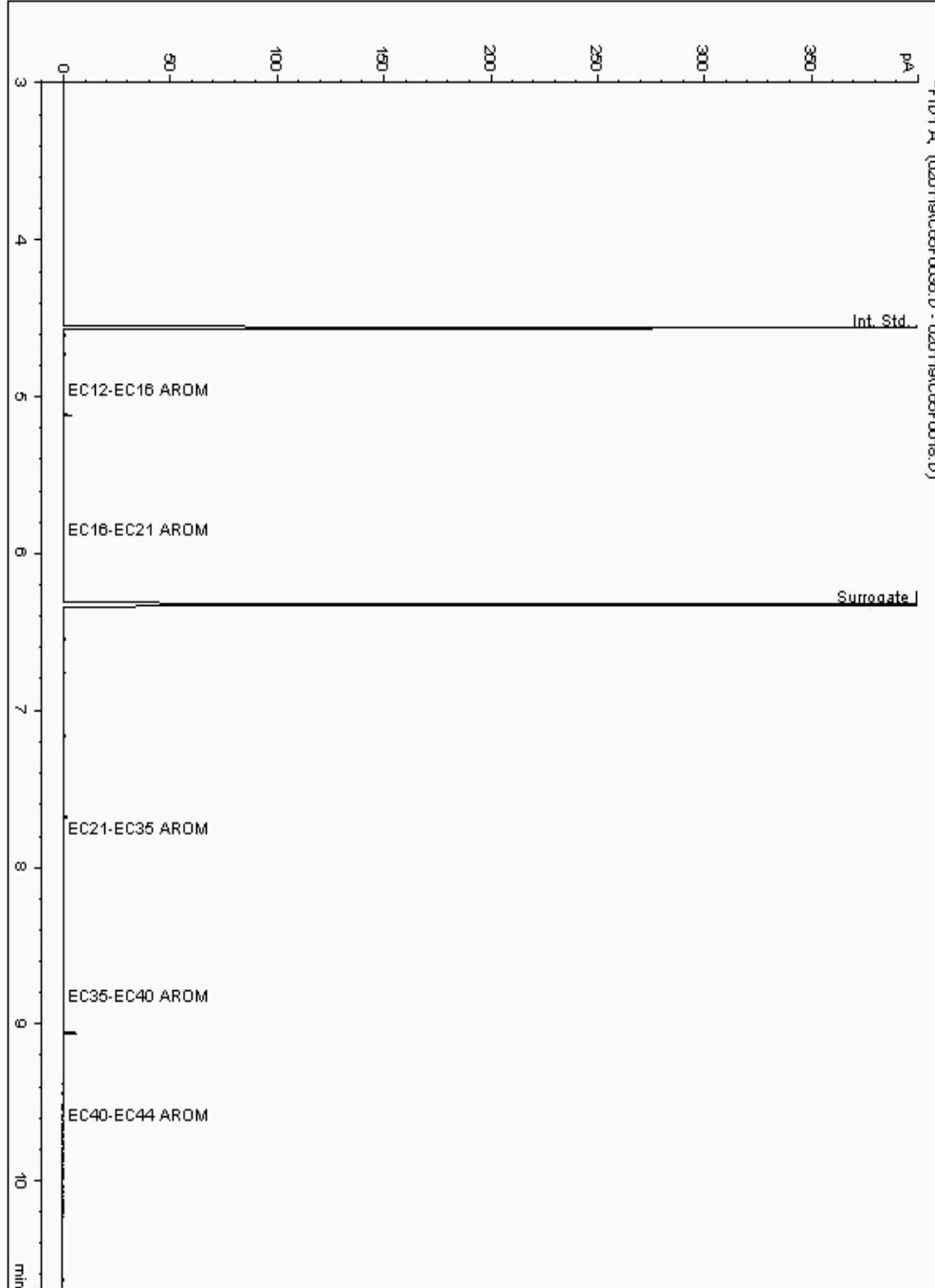
Analysis: EPH CWG (Aromatic) GC (S)
19208958

Sample No :
Sample ID : BH237

19,208,958 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041215-
Date Acquired : 01/02/2019 20:31:58 PM
Units : ppb
Dilution: BH237[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

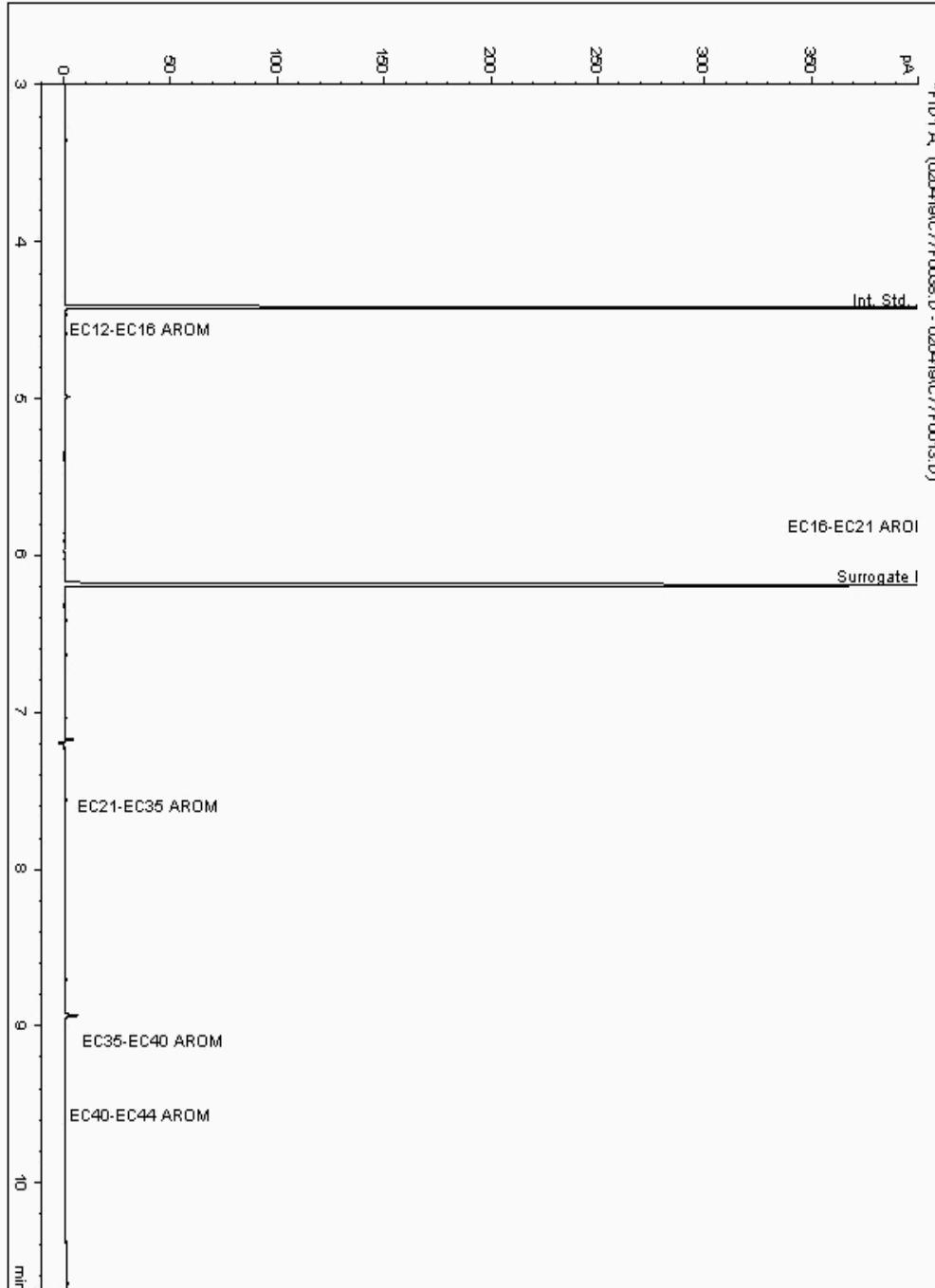
Analysis: EPH CWG (Aromatic) GC (S)
19209017

Sample No :
Sample ID : BH230

19,209,017 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040063-
Date Acquired : 04/02/2019 21:09:16 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

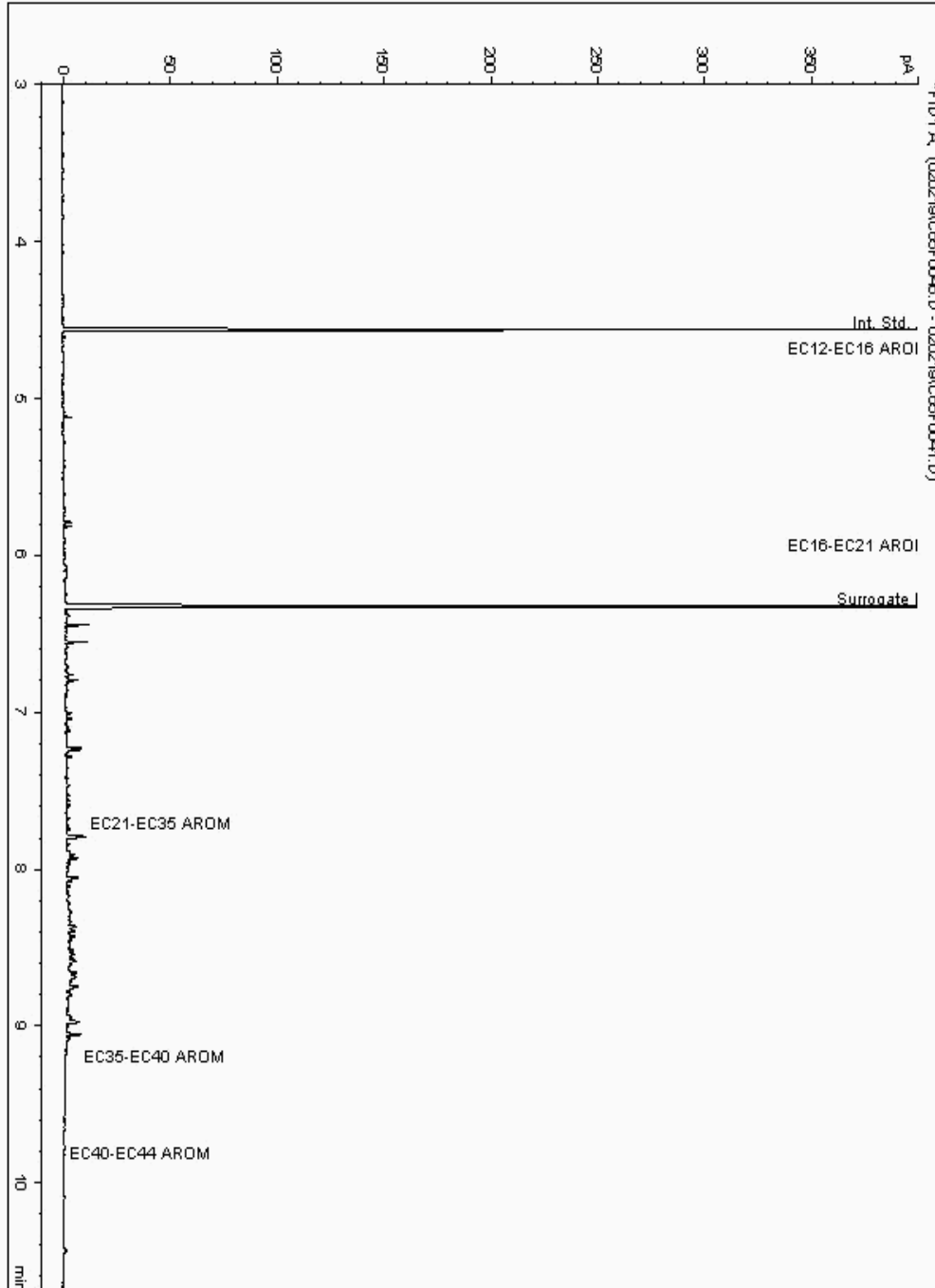
Analysis: EPH CWG (Aromatic) GC (S)
19209213

Sample No :
Sample ID : BH236

19,209,213 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040597-
Date Acquired : 04/02/2019 12:02:46 PM
Units : ppb
Dilution: BH236[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

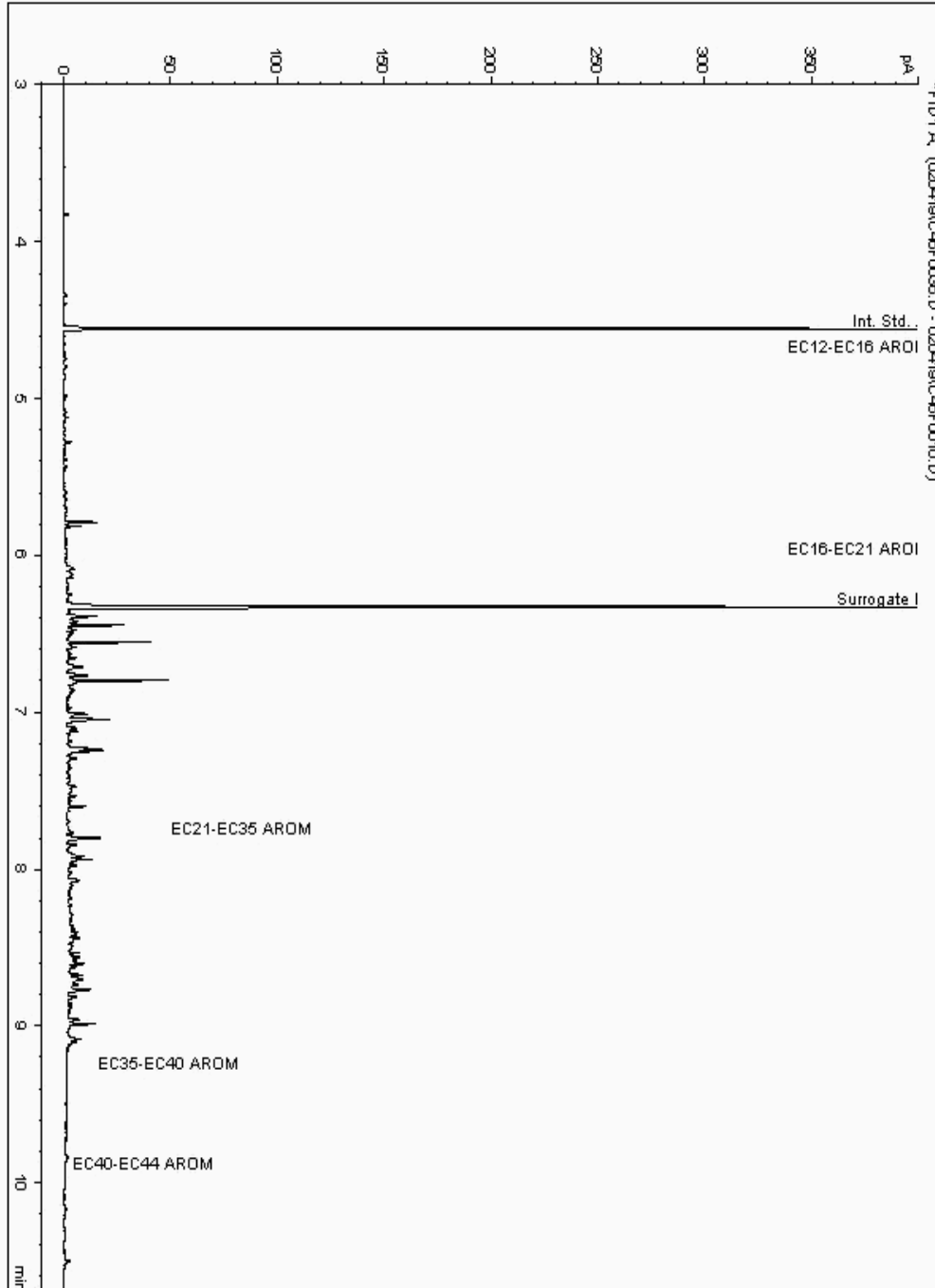
Analysis: EPH CWG (Aromatic) GC (S)
19209257

Sample No :
Sample ID : BH236

19,209,257Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040643-
Date Acquired : 04/02/2019 22:27:15 PM
Units : ppb
Dilution: BH236[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

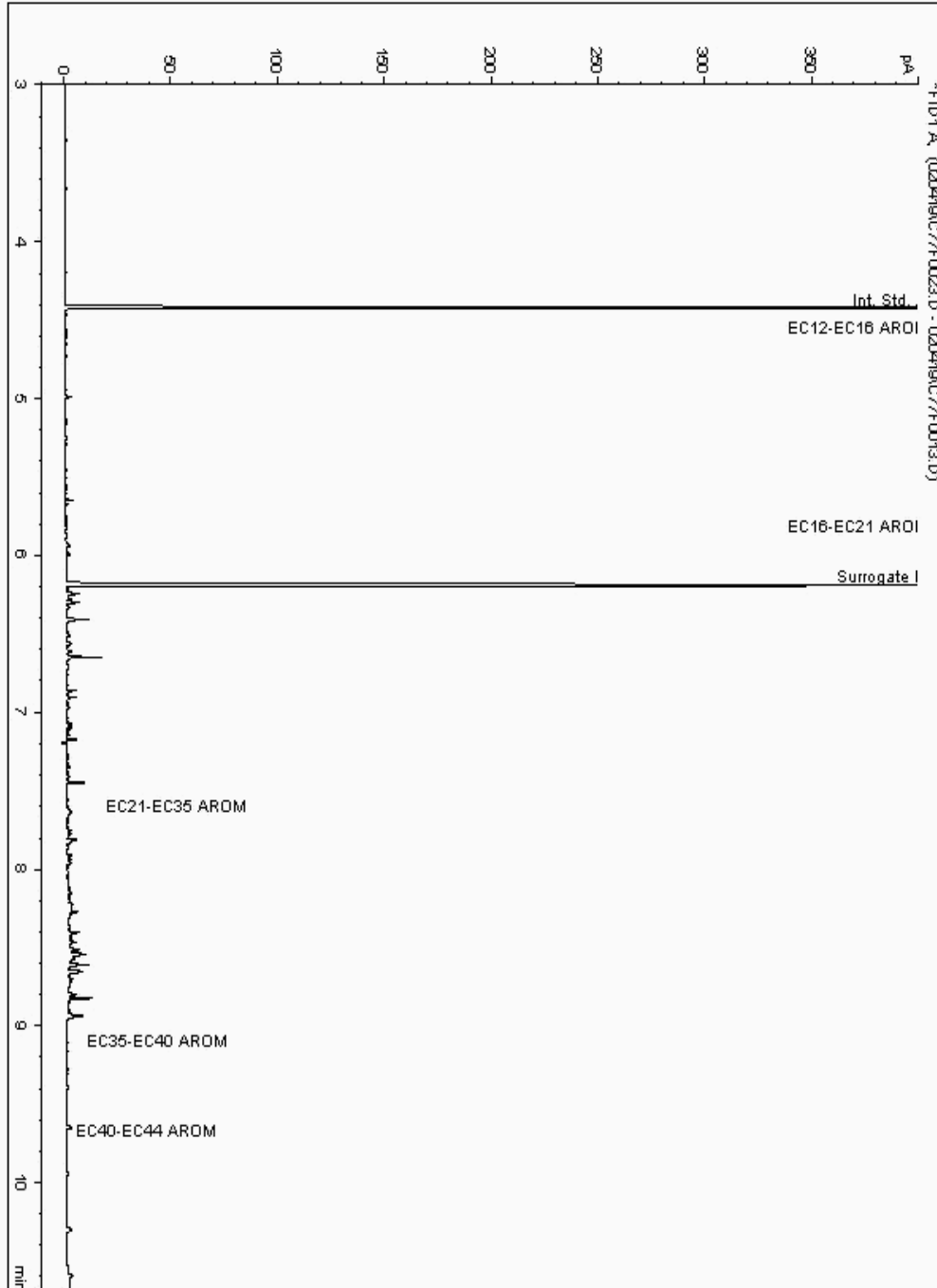
Analysis: EPH CWG (Aromatic) GC (S)
19209288

Sample No :
Sample ID : BH237

19,209,288Depth :2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040912-
Date Acquired : 04/02/2019 16:56:14 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

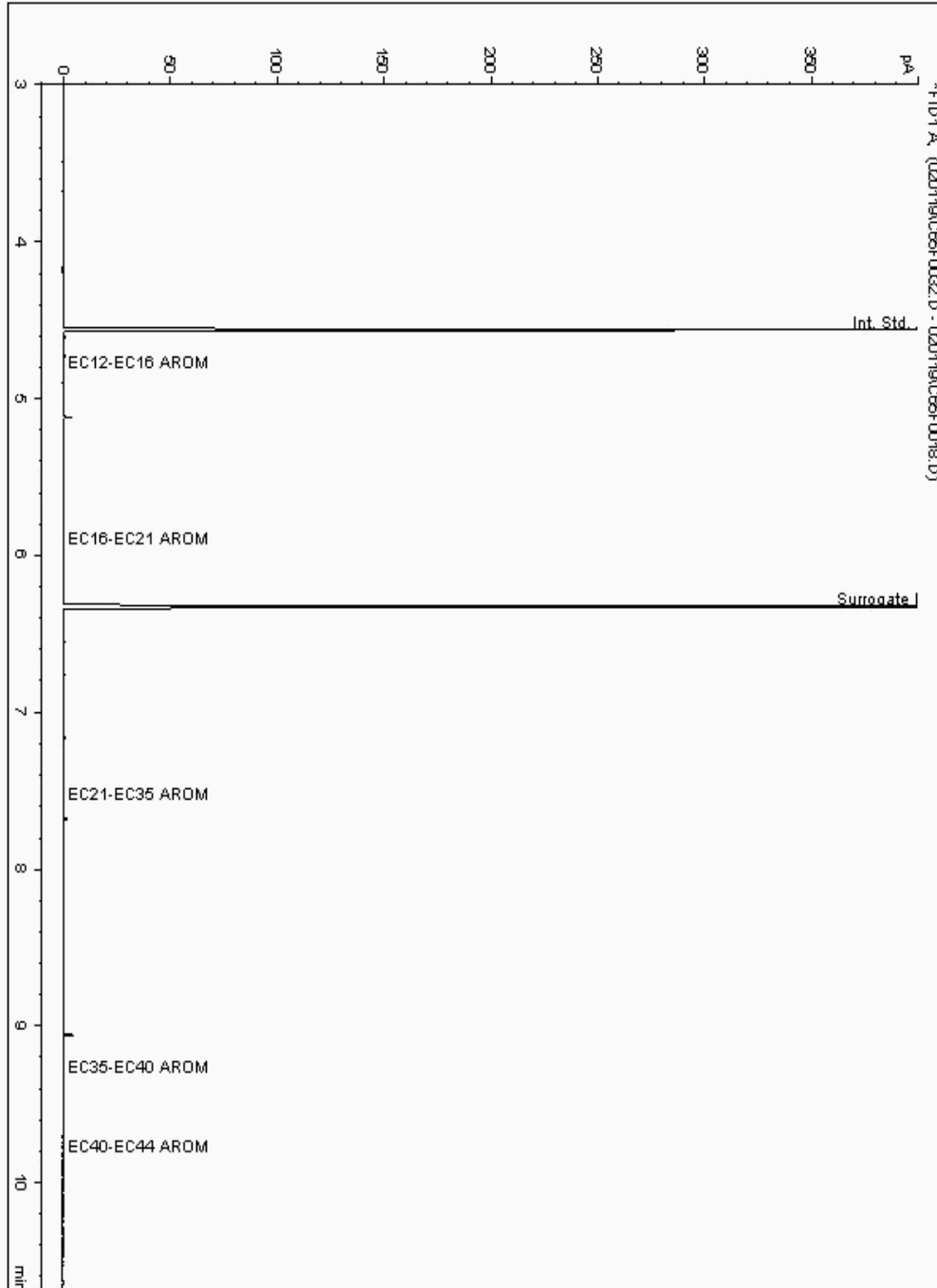
Analysis: EPH CWG (Aromatic) GC (S)
19209390

Sample No :
Sample ID : BH231

19,209,390Depth :9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040445-
Date Acquired : 01/02/2019 19:18:24 PM
Units : ppb
Dilution: BH231[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

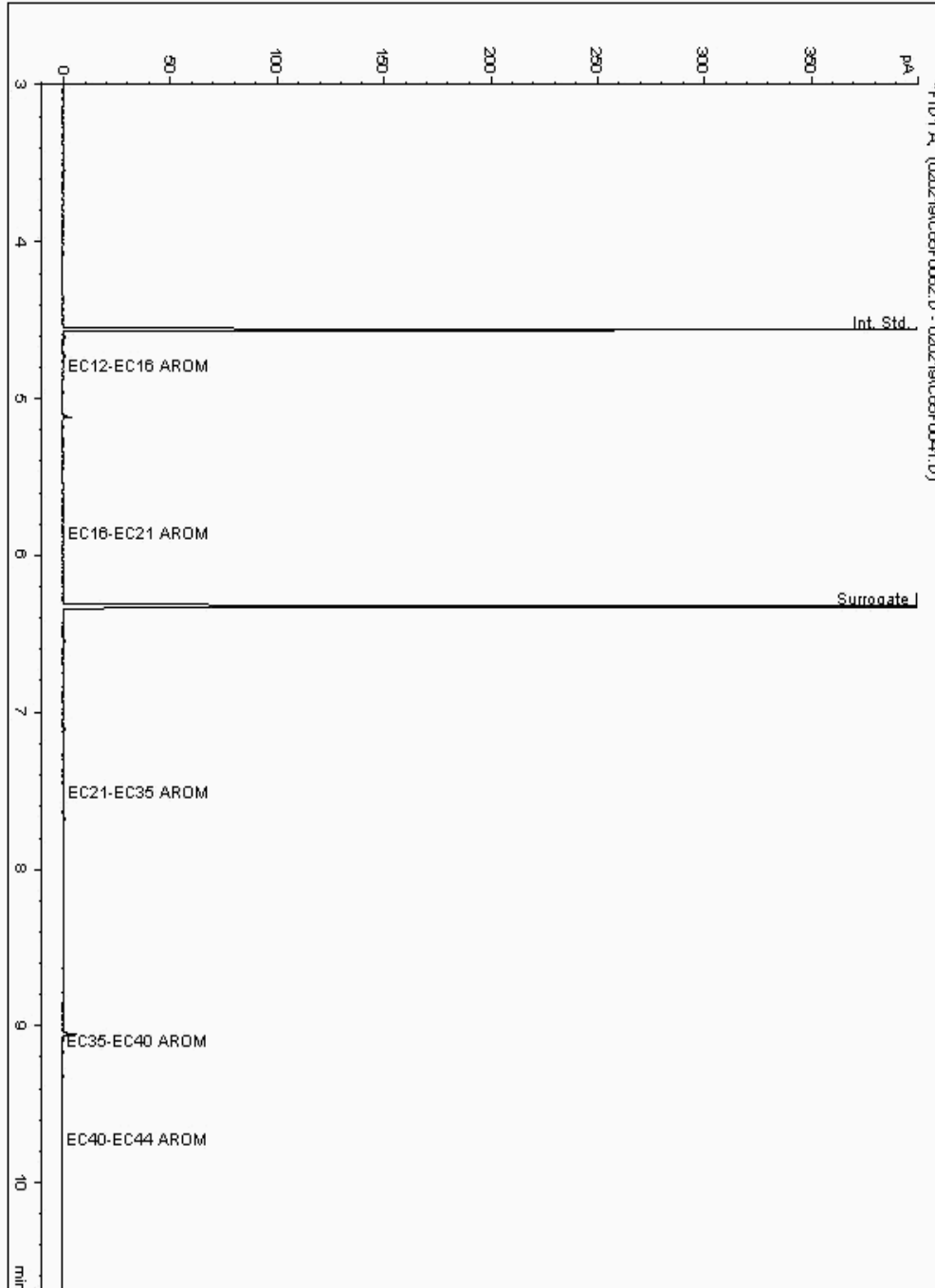
Analysis: EPH CWG (Aromatic) GC (S)
19209403

Sample No :
Sample ID : BH231

19,209,403 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040478-
Date Acquired : 04/02/2019 17:09:25 PM
Units : ppb
Dilution: BH231[10.00 - 11.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

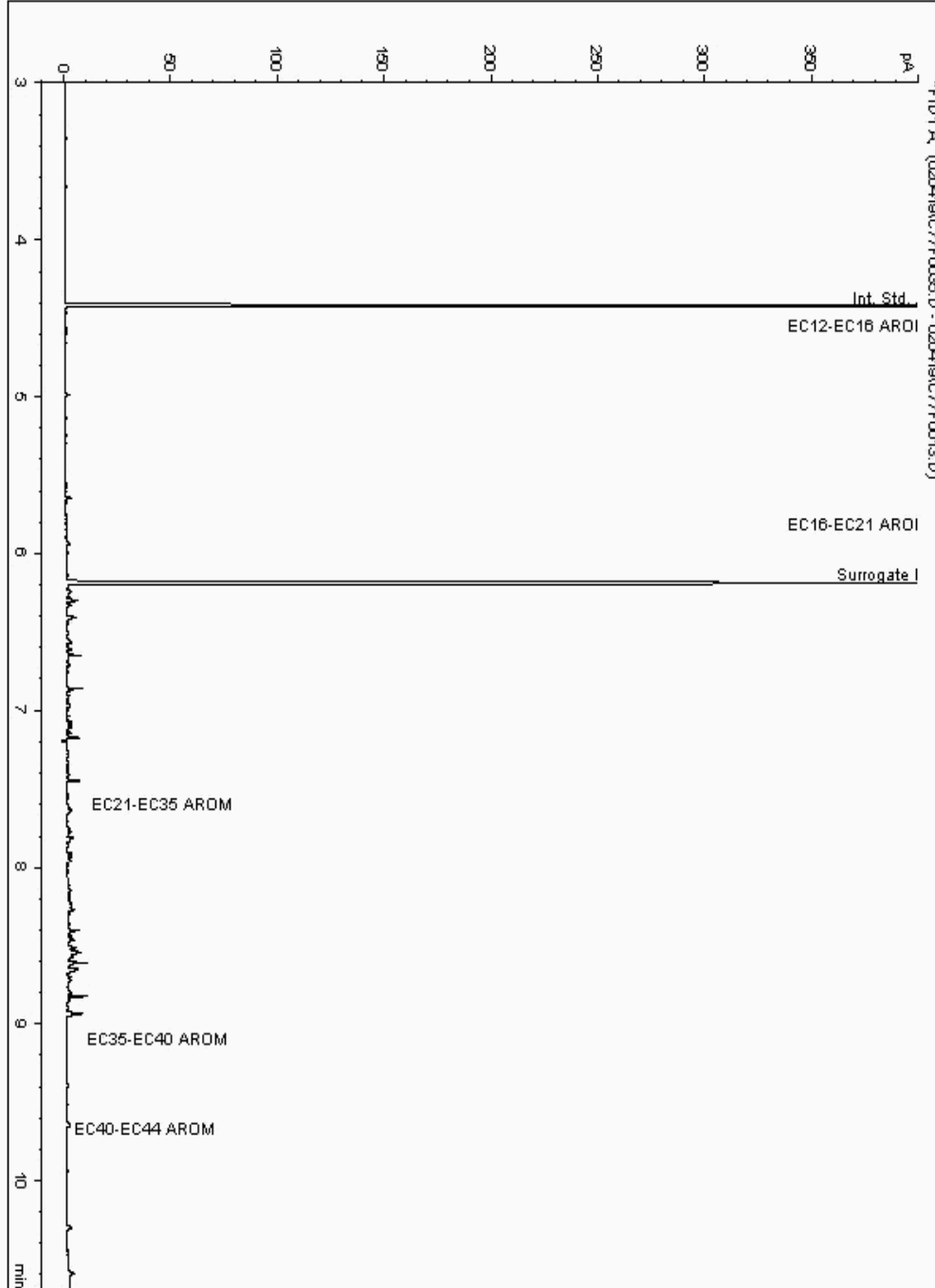
Analysis: EPH CWG (Aromatic) GC (S)
19211025

Sample No :
Sample ID : BH231

19,211,025 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040273-
Date Acquired : 04/02/2019 20:09:17 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

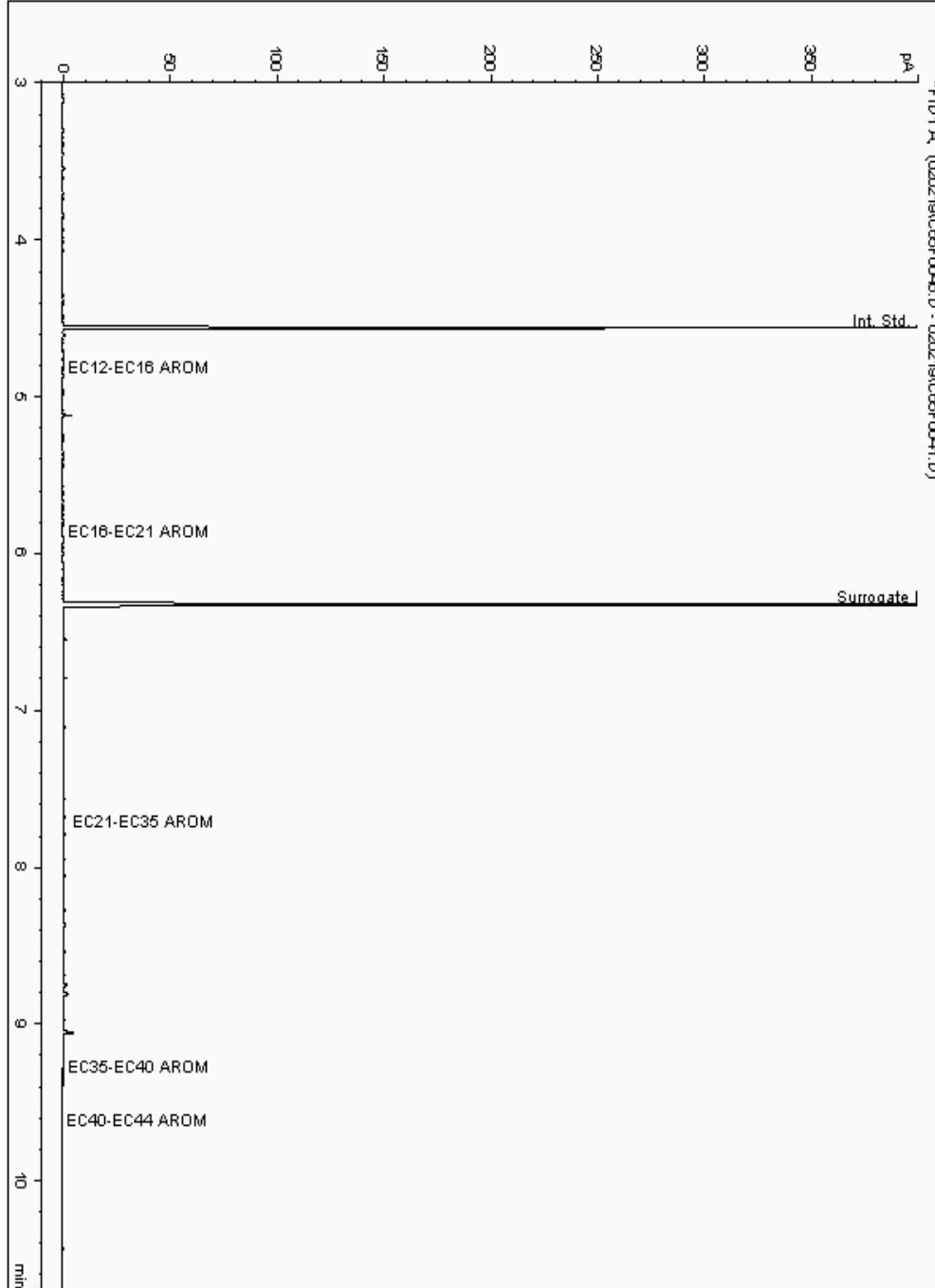
Analysis: EPH CWG (Aromatic) GC (S)
19211060

Sample No :
Sample ID : BH238

19,211,060 Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041432-
Date Acquired : 04/02/2019 11:42:18 PM
Units : ppb
Dilution: BH238[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

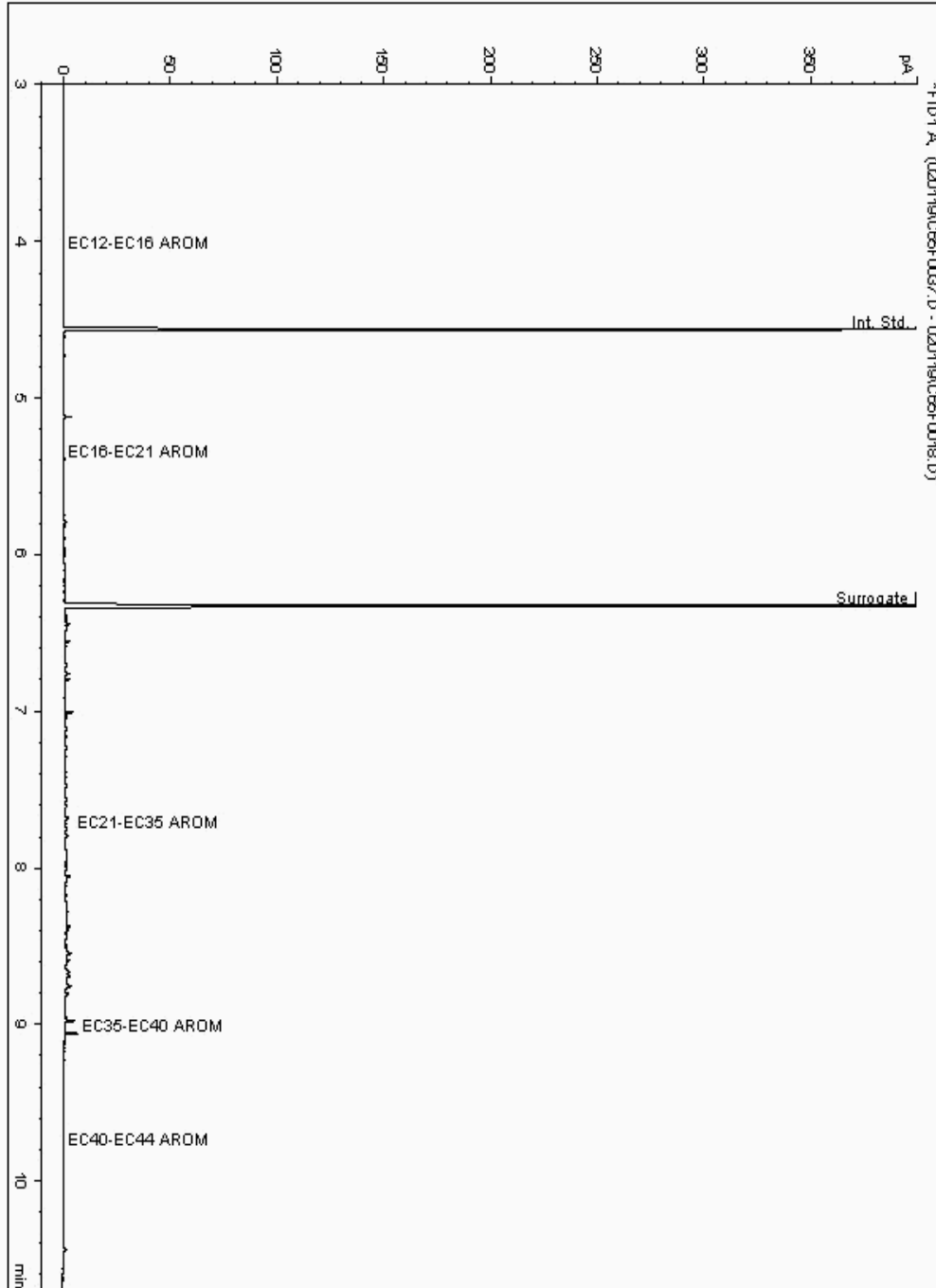
Analysis: EPH CWG (Aromatic) GC (S)
19211066

Sample No :
Sample ID : BH231

19,211,066Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040347-
Date Acquired : 01/02/2019 20:52:32 PM
Units : ppb
Dilution: BH231[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

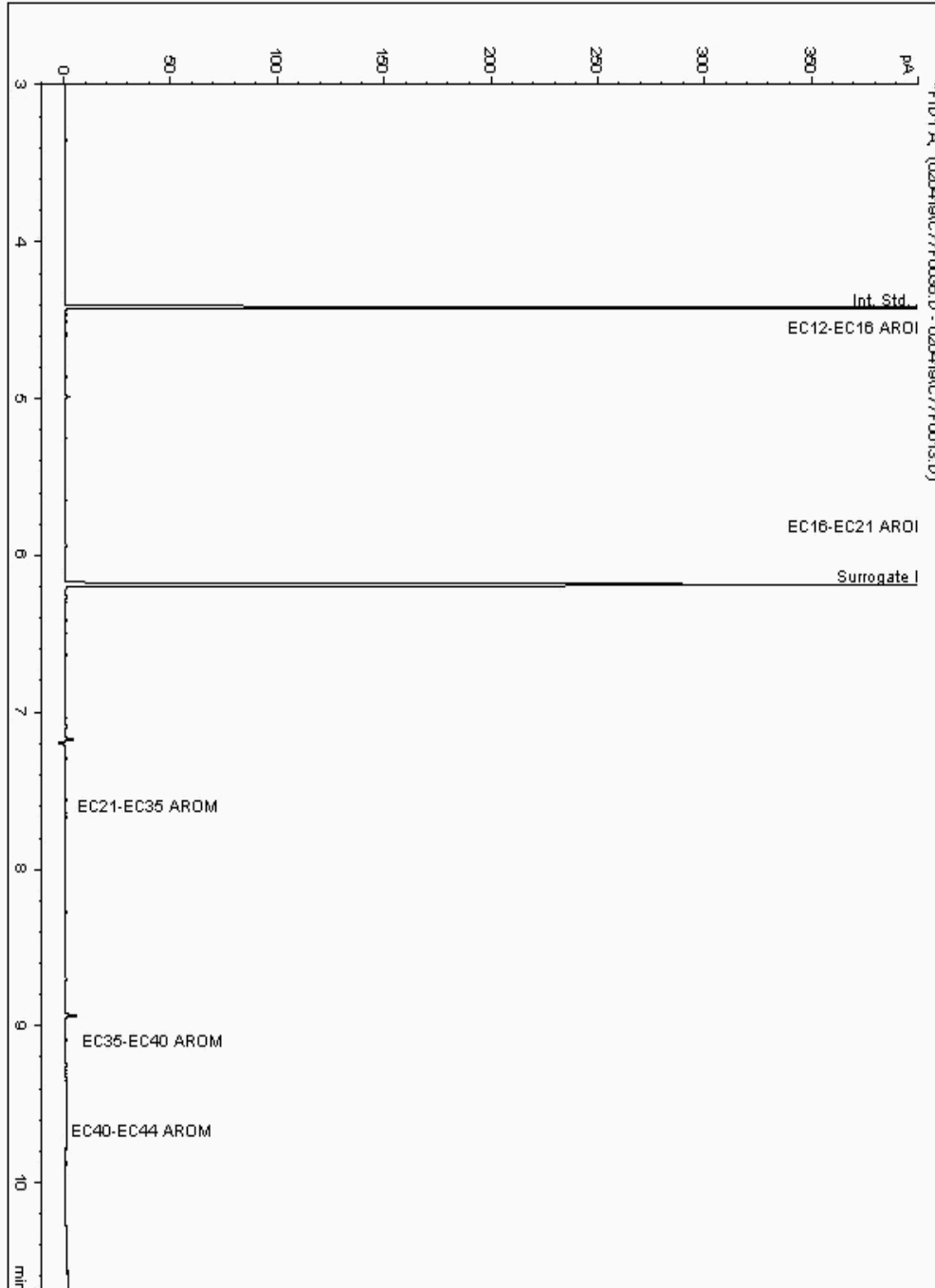
Analysis: EPH CWG (Aromatic) GC (S)
19211099

Sample No :
Sample ID : BH236

19,211,099 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18040818-
Date Acquired : 04/02/2019 20:29:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

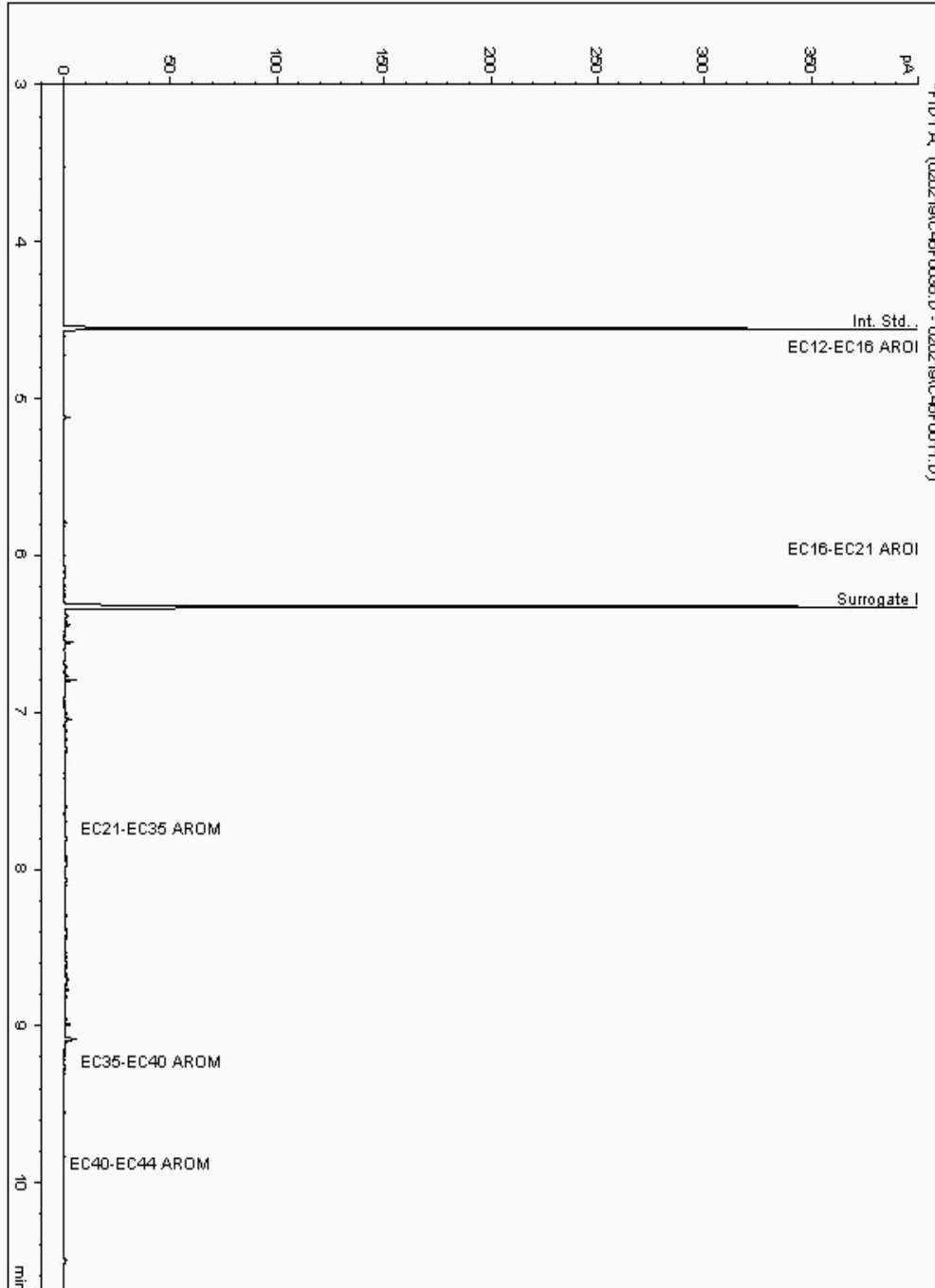
Analysis: EPH CWG (Aromatic) GC (S)
19211133

Sample No :
Sample ID : BH231

19,211,133Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040404-
Date Acquired : 02/02/2019 19:26:51 PM
Units : ppb
Dilution: BH231[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

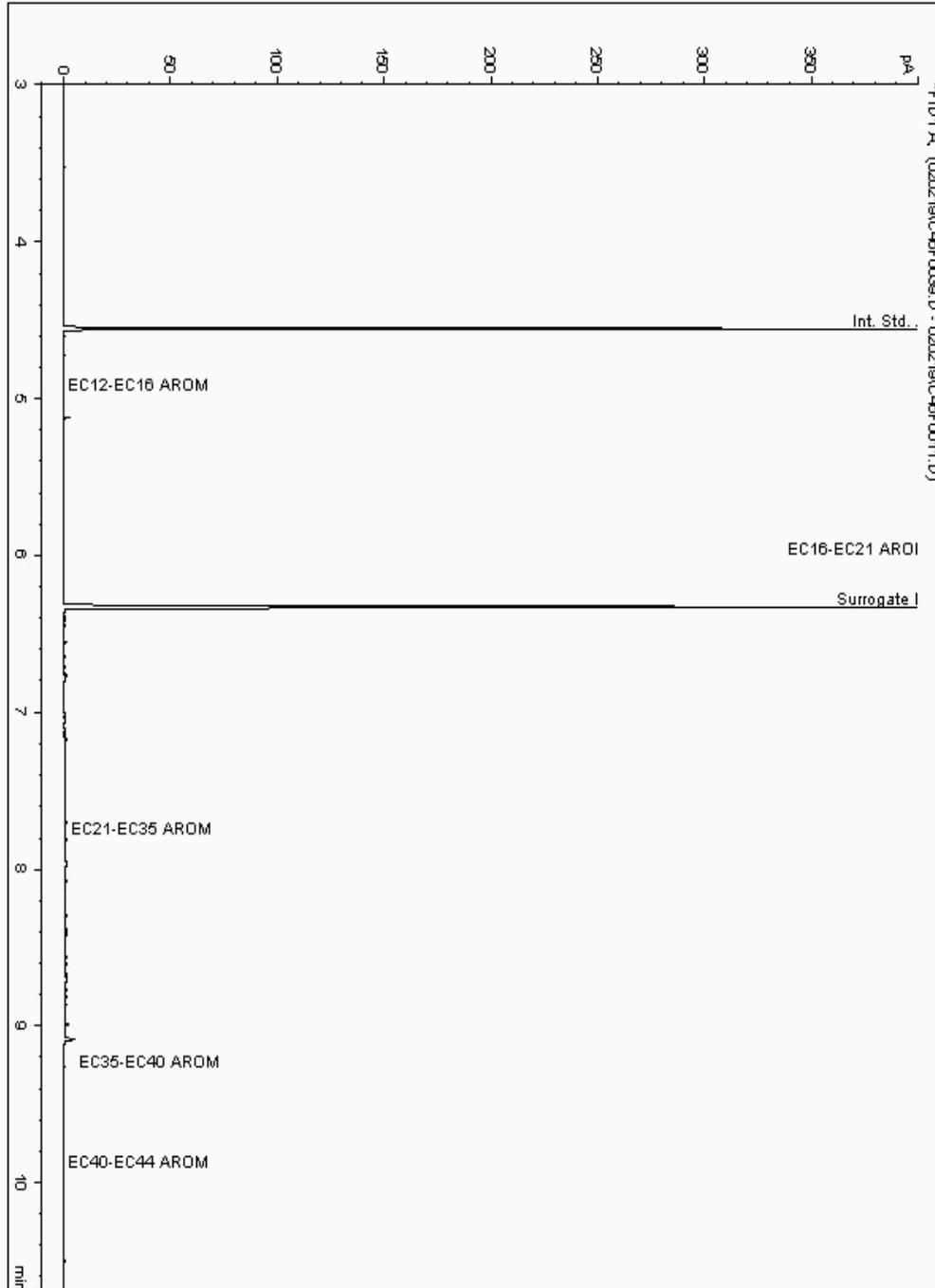
Analysis: EPH CWG (Aromatic) GC (S)
19211289

Sample No :
Sample ID : BH231

19,211,289Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040378-
Date Acquired : 02/02/2019 20:19:29 PM
Units : ppb
Dilution: BH231[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

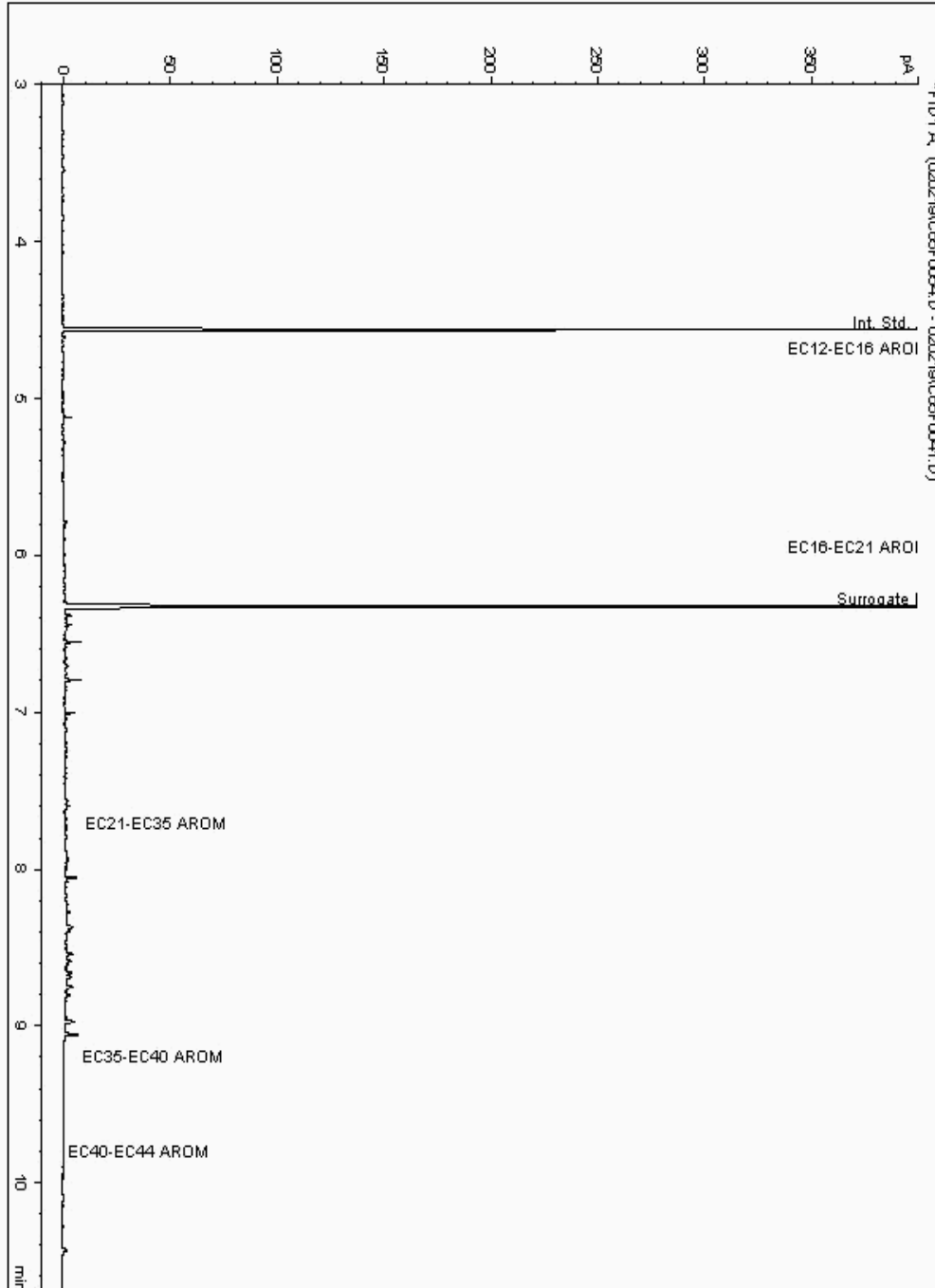
Analysis: EPH CWG (Aromatic) GC (S)
19211568

Sample No :
Sample ID : BH236

19,211,568 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040693-
Date Acquired : 04/02/2019 14:29:55 PM
Units : ppb
Dilution: BH236[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

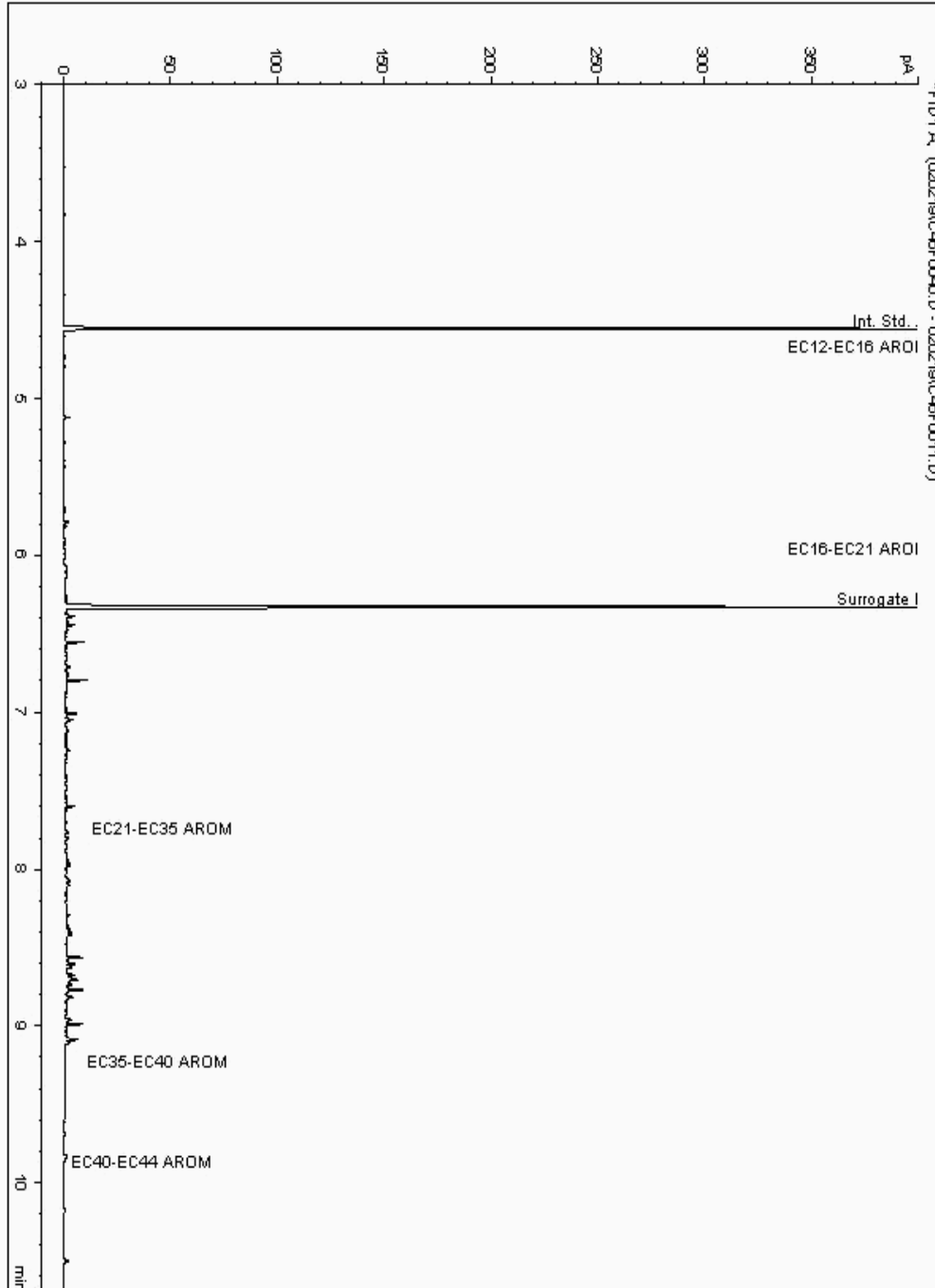
Analysis: EPH CWG (Aromatic) GC (S)
19211637

Sample No :
Sample ID : BH236

19,211,637Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040666-
Date Acquired : 02/02/2019 20:39:32 PM
Units : ppb
Dilution: BH236[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

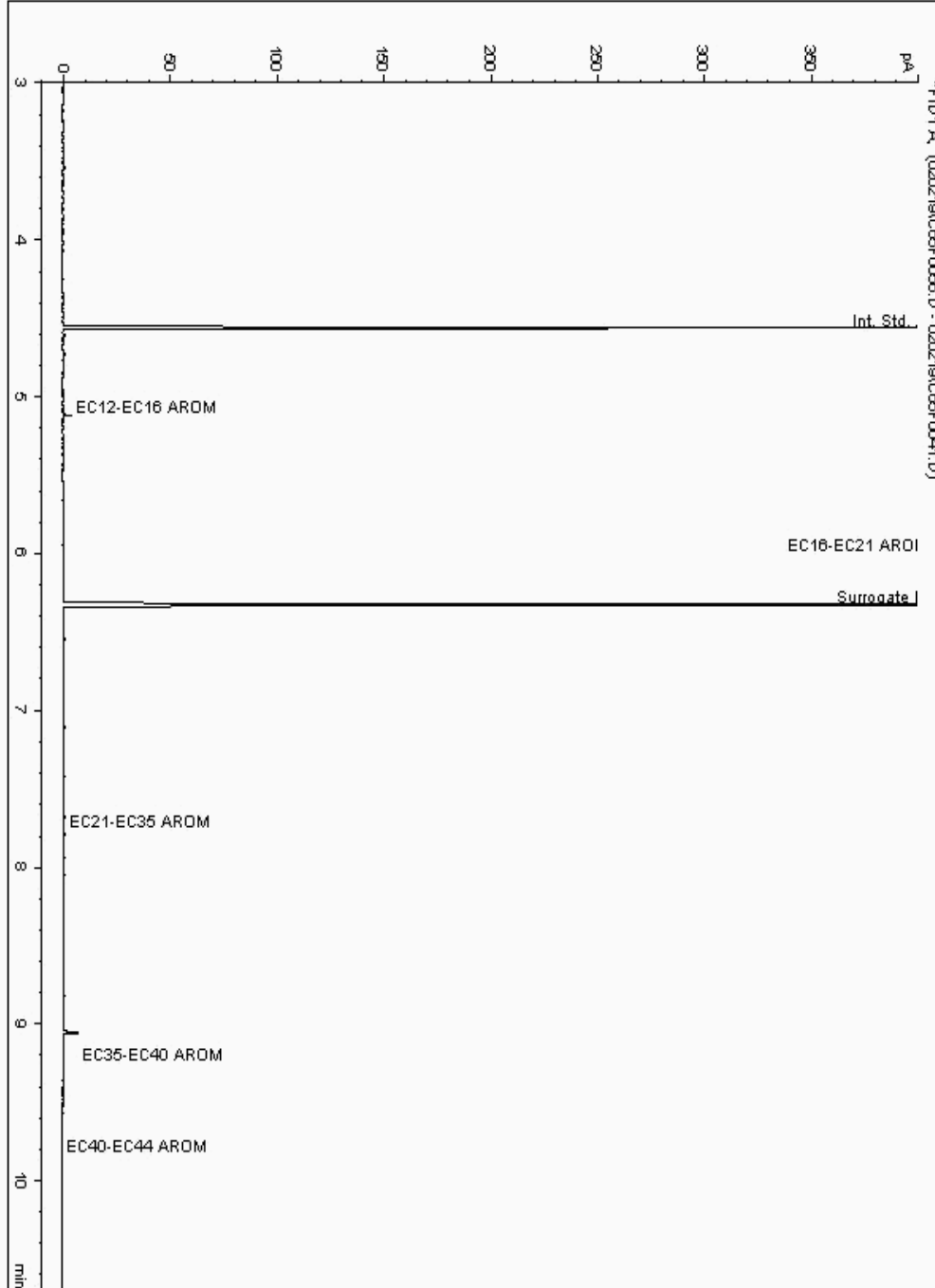
Analysis: EPH CWG (Aromatic) GC (S)
19211673

Sample No :
Sample ID : BH237

19,211,673 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041243-
Date Acquired : 04/02/2019 15:22:59 PM
Units : ppb
Dilution: BH237[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

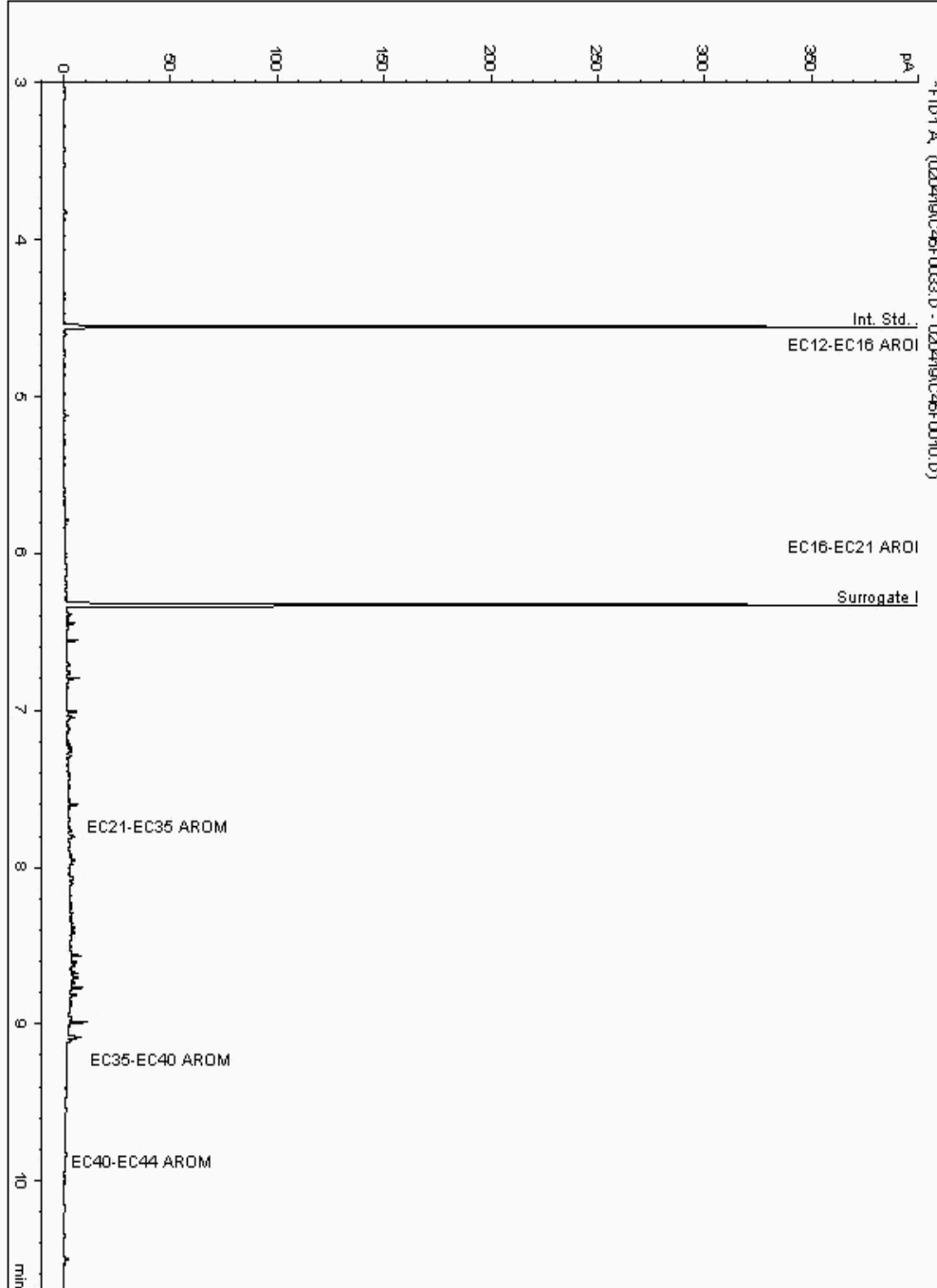
Analysis: EPH CWG (Aromatic) GC (S)
19211733

Sample No :
Sample ID : BH231

19,211,733 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040299-
Date Acquired : 04/02/2019 21:34:46 PM
Units : ppb
Dilution: BH231[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

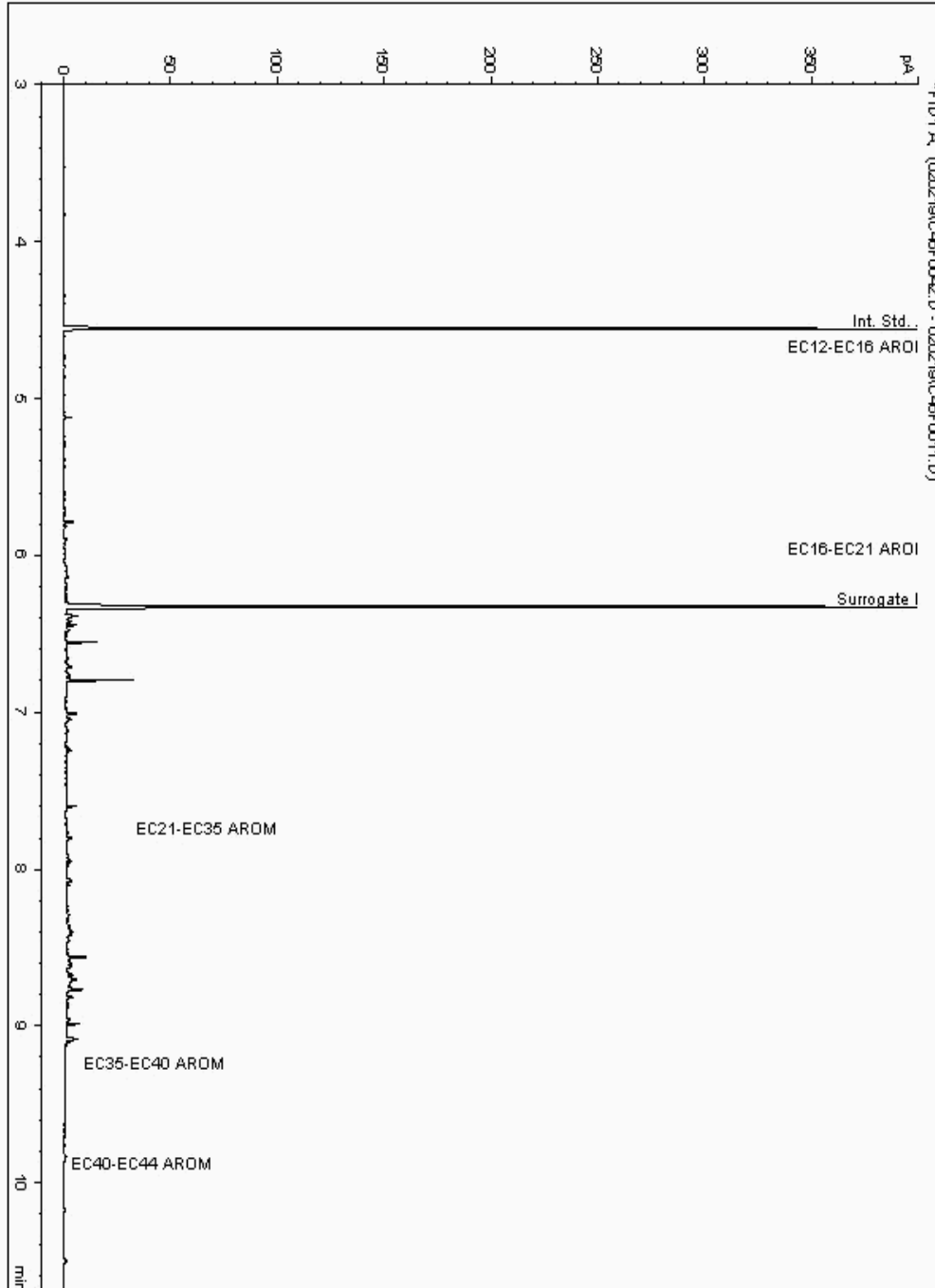
Analysis: EPH CWG (Aromatic) GC (S)
19211754

Sample No :
Sample ID : BH238

19,211,754Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041386-
Date Acquired : 02/02/2019 21:11:46 PM
Units : ppb
Dilution: BH238[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

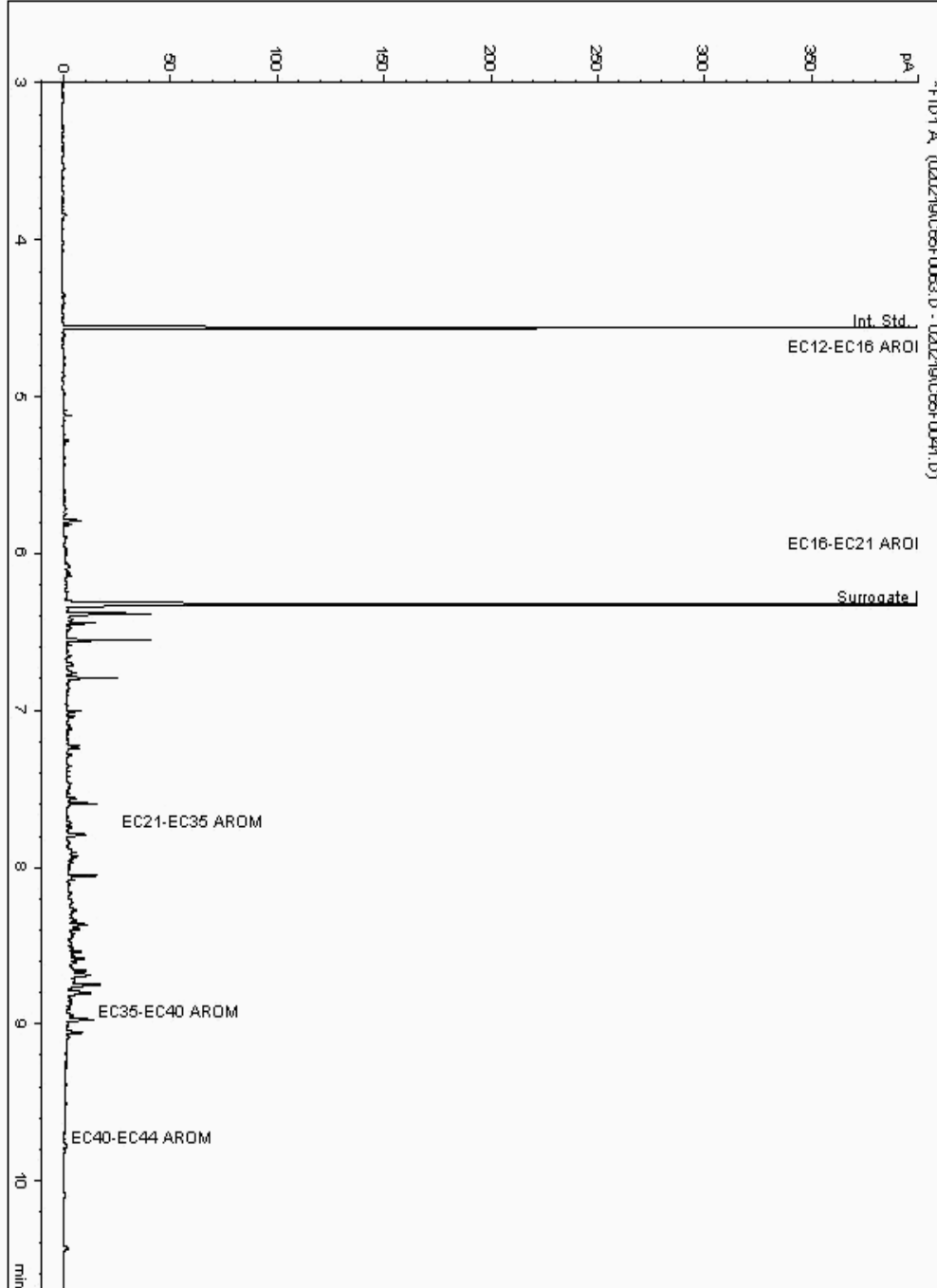
Analysis: EPH CWG (Aromatic) GC (S)
19211768

Sample No :
Sample ID : BH238

19,211,768Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041341-
Date Acquired : 04/02/2019 17:29:45 PM
Units : ppb
Dilution: BH238[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

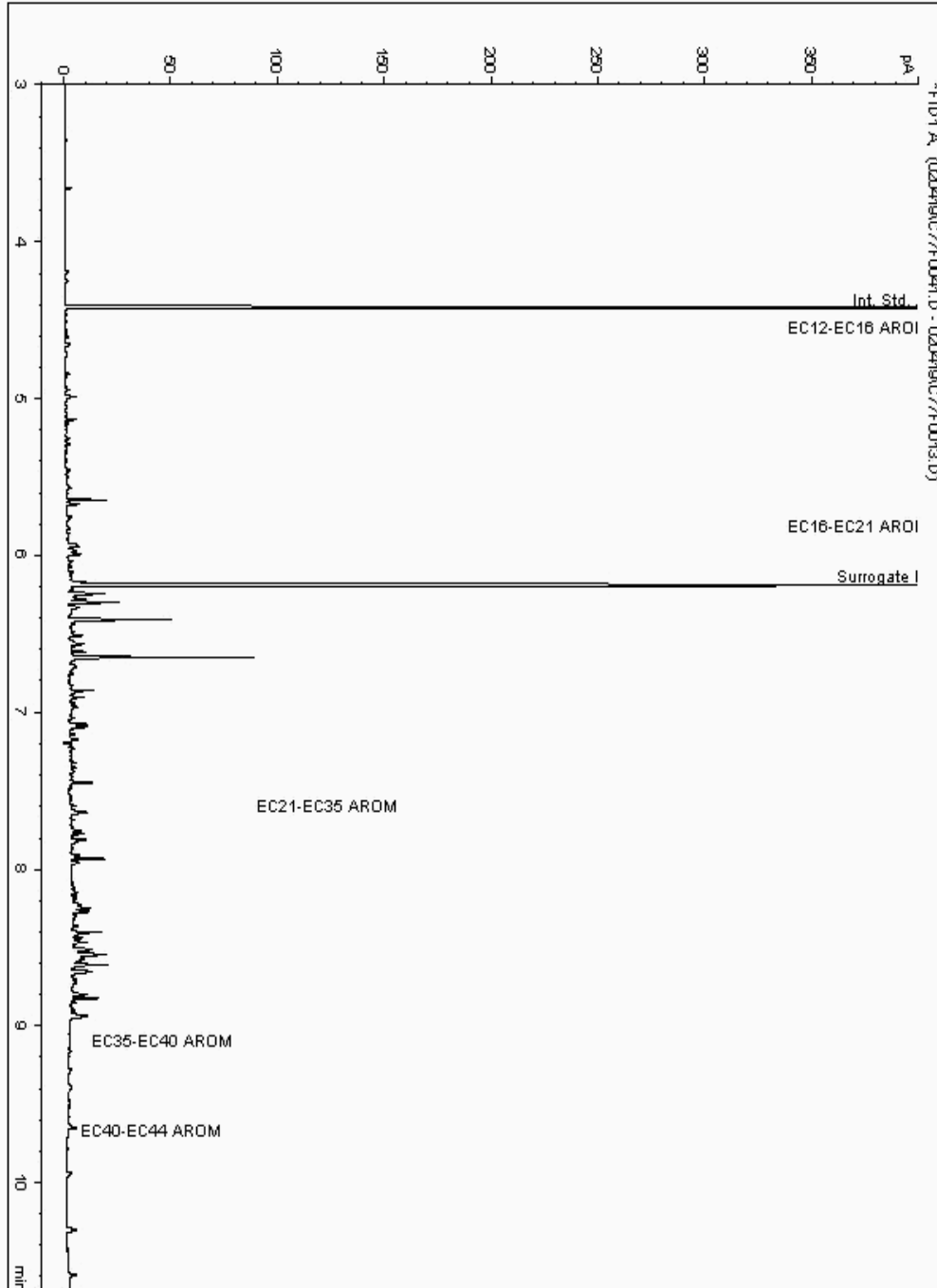
Analysis: EPH CWG (Aromatic) GC (S)
19211771

Sample No :
Sample ID : BH238

19,211,771 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18041364-
Date Acquired : 04/02/2019 22:09:18 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

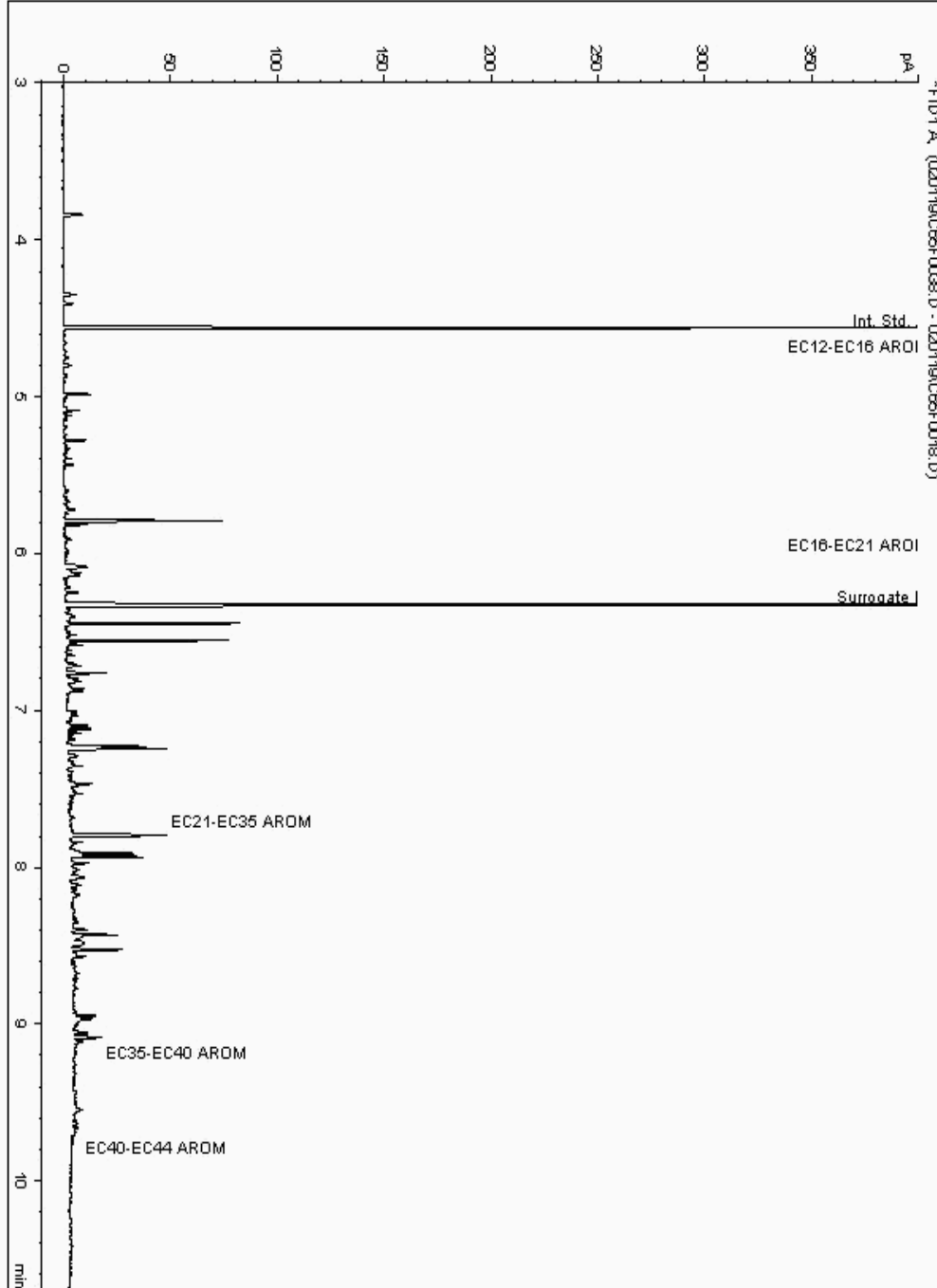
Analysis: EPH CWG (Aromatic) GC (S)
19211792

Sample No :
Sample ID : BH231

19,211,792Depth :0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040221-
Date Acquired : 01/02/2019 21:12:56 PM
Units : ppb
Dilution: BH231[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

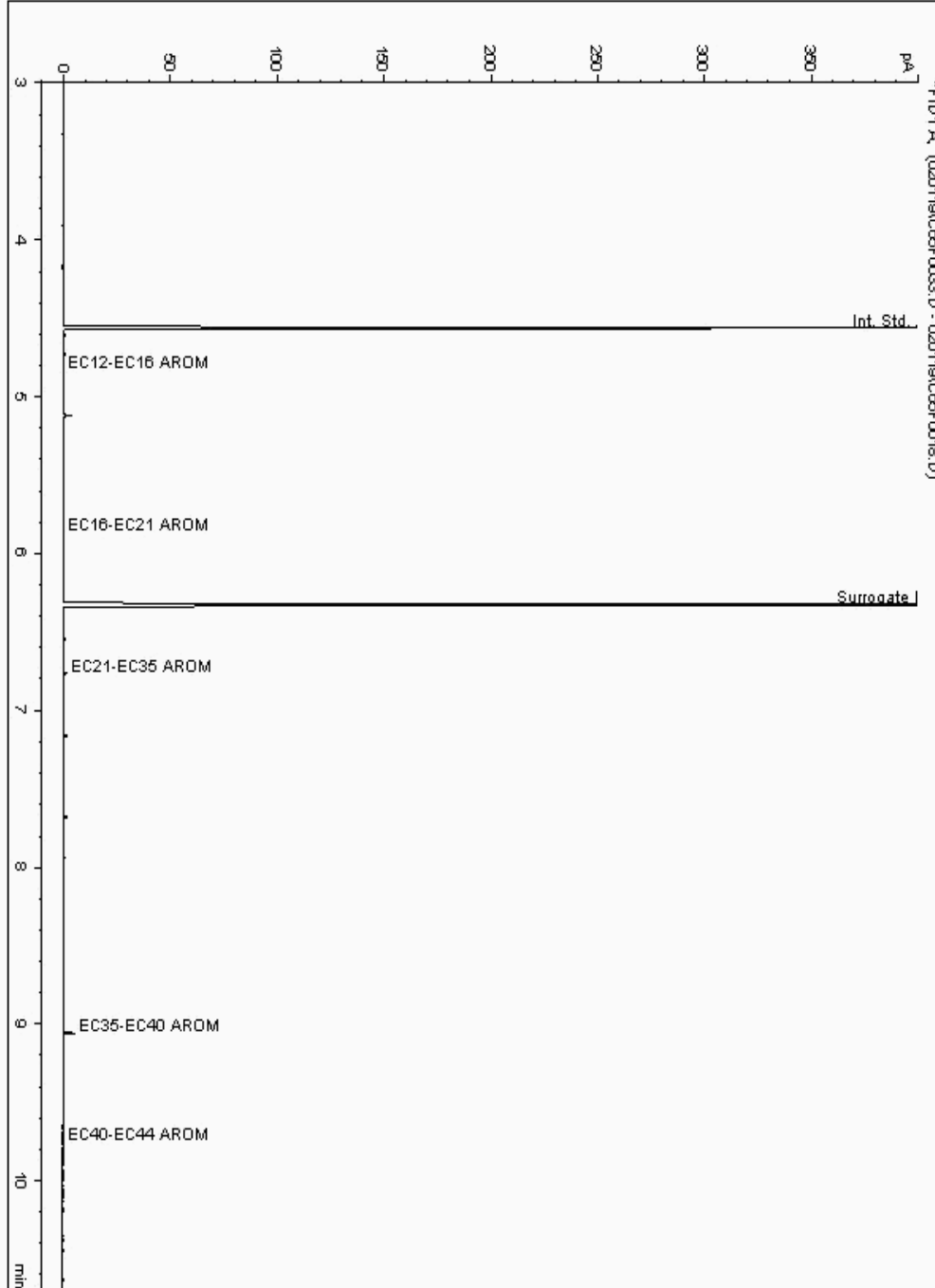
Analysis: EPH CWG (Aromatic) GC (S)
19212071

Sample No :
Sample ID : BH236

19,212,071 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040721-
Date Acquired : 01/02/2019 19:38:56 PM
Units : ppb
Dilution: BH236[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

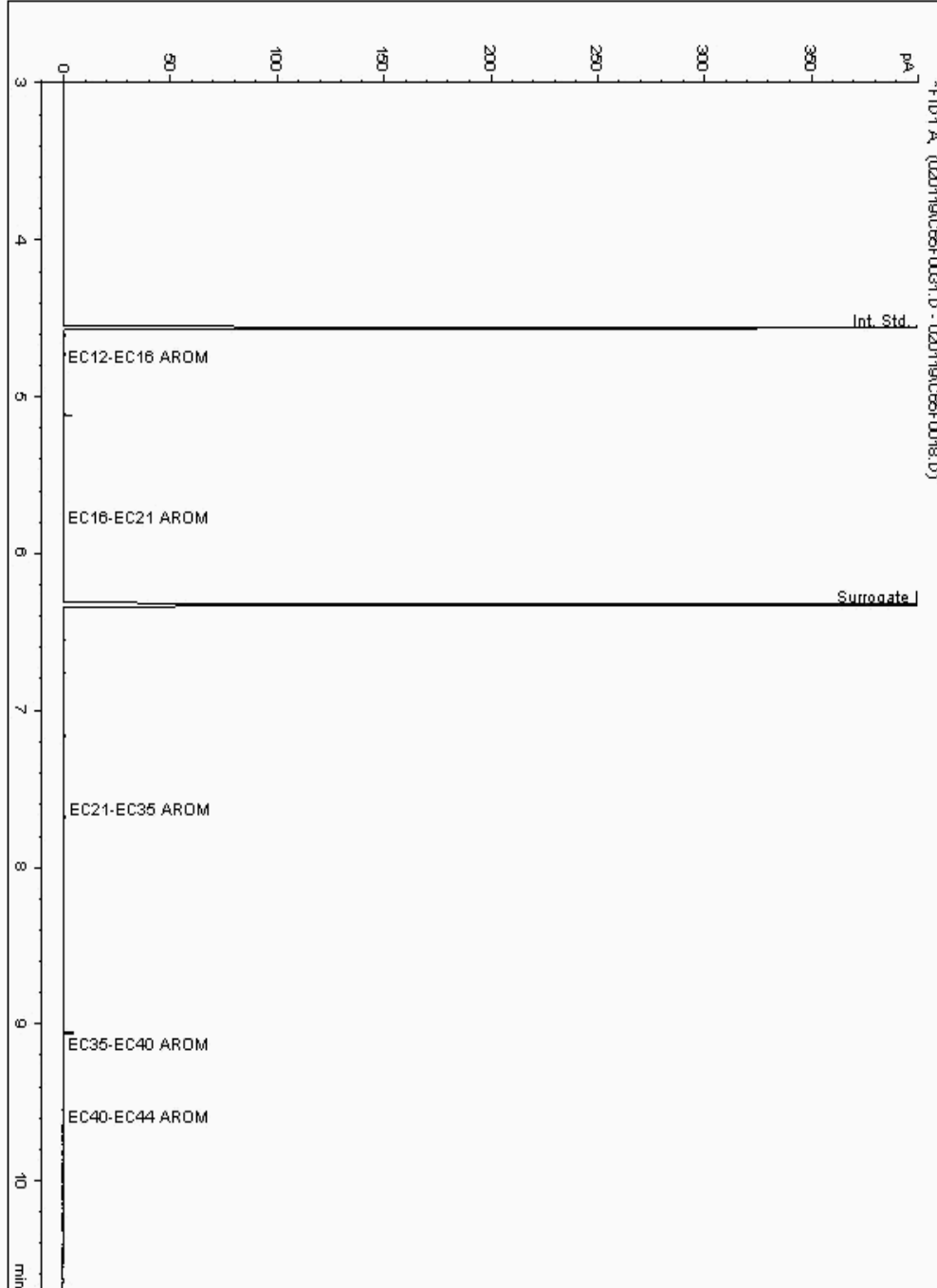
Analysis: EPH CWG (Aromatic) GC (S)
19212094

Sample No :
Sample ID : BH236

19,212,094 Depth : 9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040745-
Date Acquired : 01/02/2019 18:57:58 PM
Units : ppb
Dilution: BH236[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

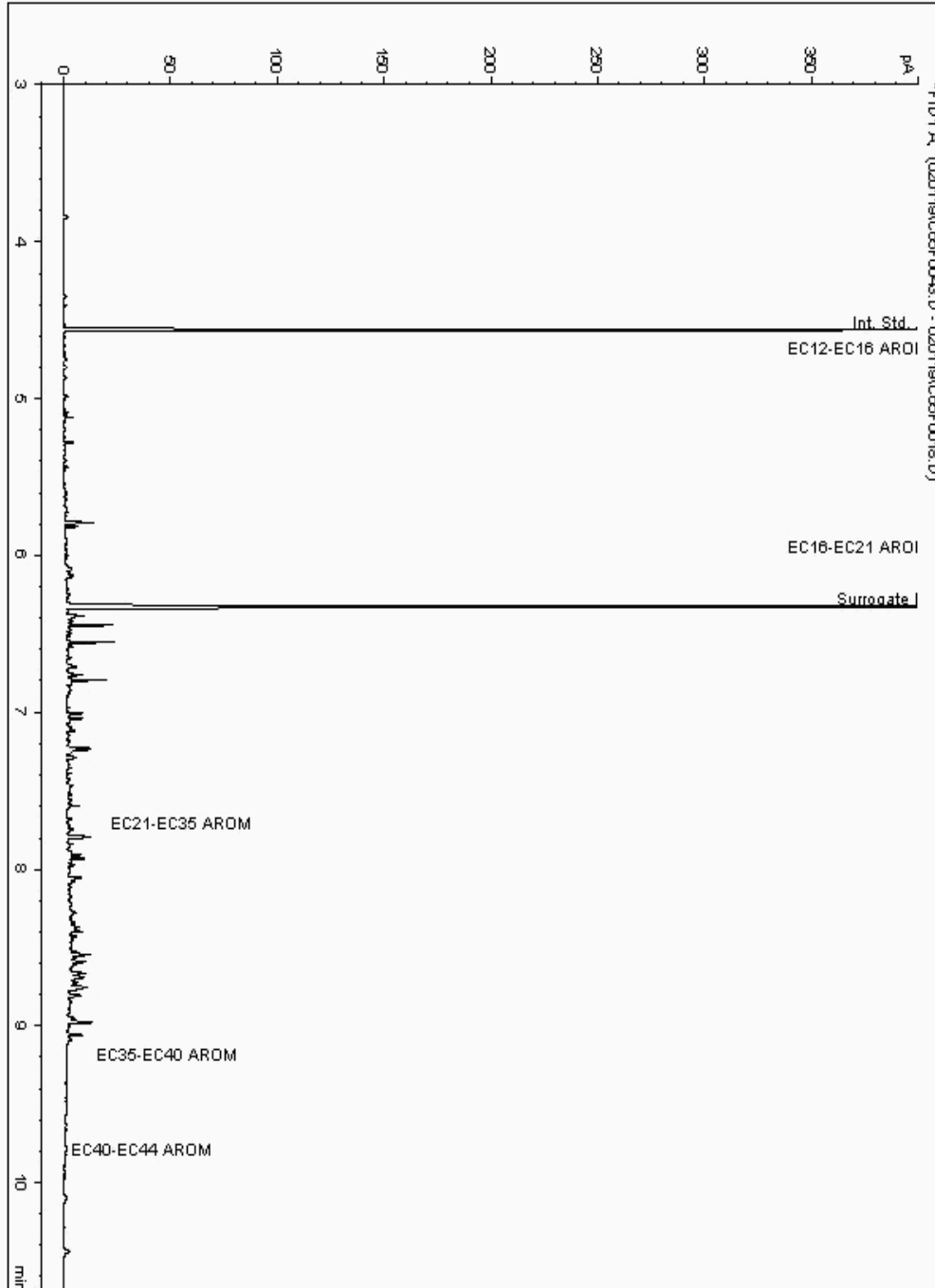
Analysis: EPH CWG (Aromatic) GC (S)
19212136

Sample No :
Sample ID : BH238

19,212,136 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041318-
Date Acquired : 01/02/2019 22:38:19 PM
Units : ppb
Dilution: BH238[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

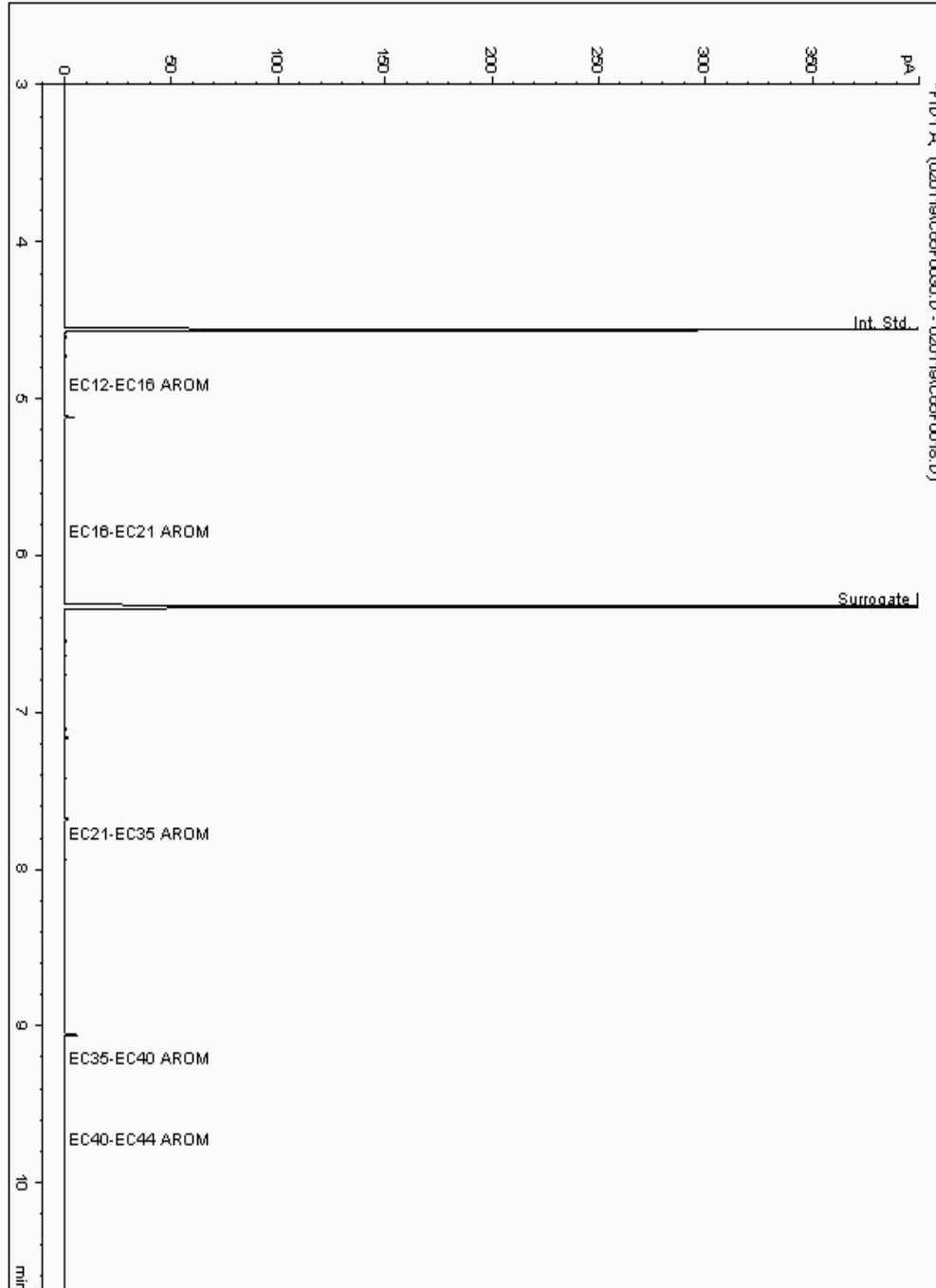
Analysis: EPH CWG (Aromatic) GC (S)
19223990

Sample No :
Sample ID : BH238

19,223,990Depth :9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041458-
Date Acquired : 01/02/2019 18:37:34 PM
Units : ppb
Dilution: BH238[9.00 - 10.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

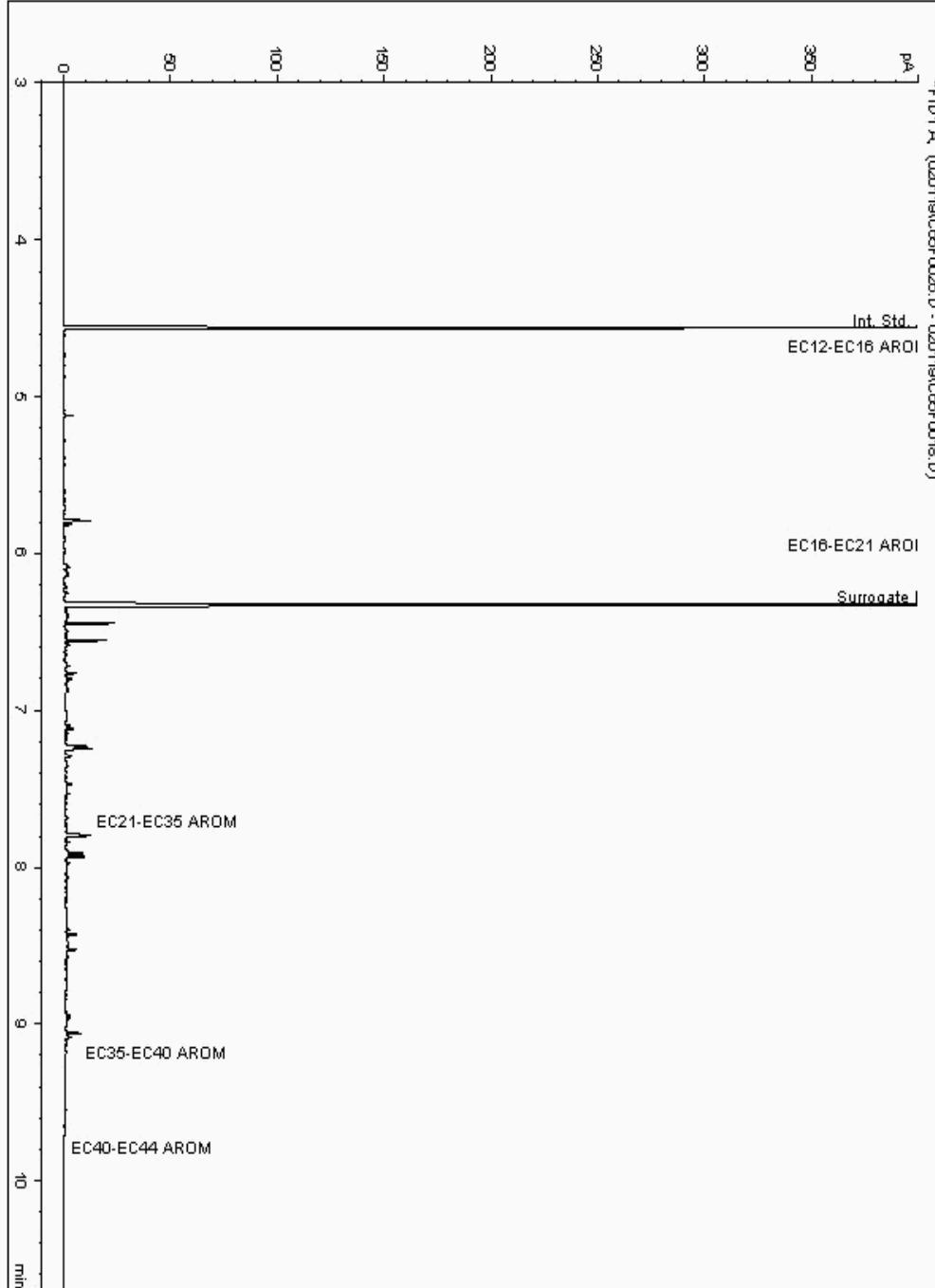
Analysis: EPH CWG (Aromatic) GC (S)
19224119

Sample No :
Sample ID : BH237

19,224,119Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040843-
Date Acquired : 01/02/2019 17:23:55 PM
Units : ppb
Dilution: BH237[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

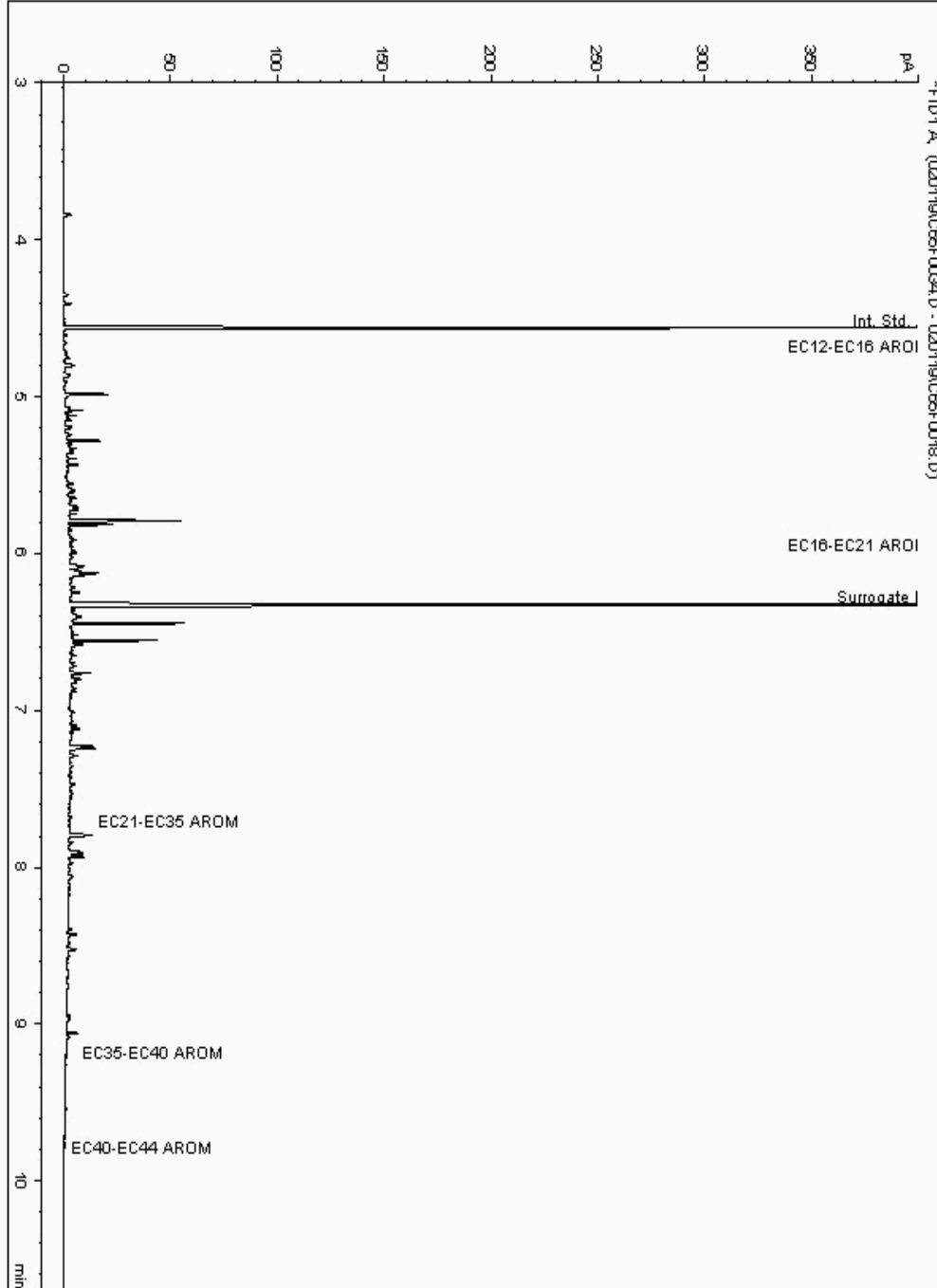
Analysis: EPH CWG (Aromatic) GC (S)
19224402

Sample No :
Sample ID : BH238

19,224,402Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041269-
Date Acquired : 01/02/2019 19:59:18 PM
Units : ppb
Dilution: BH238[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

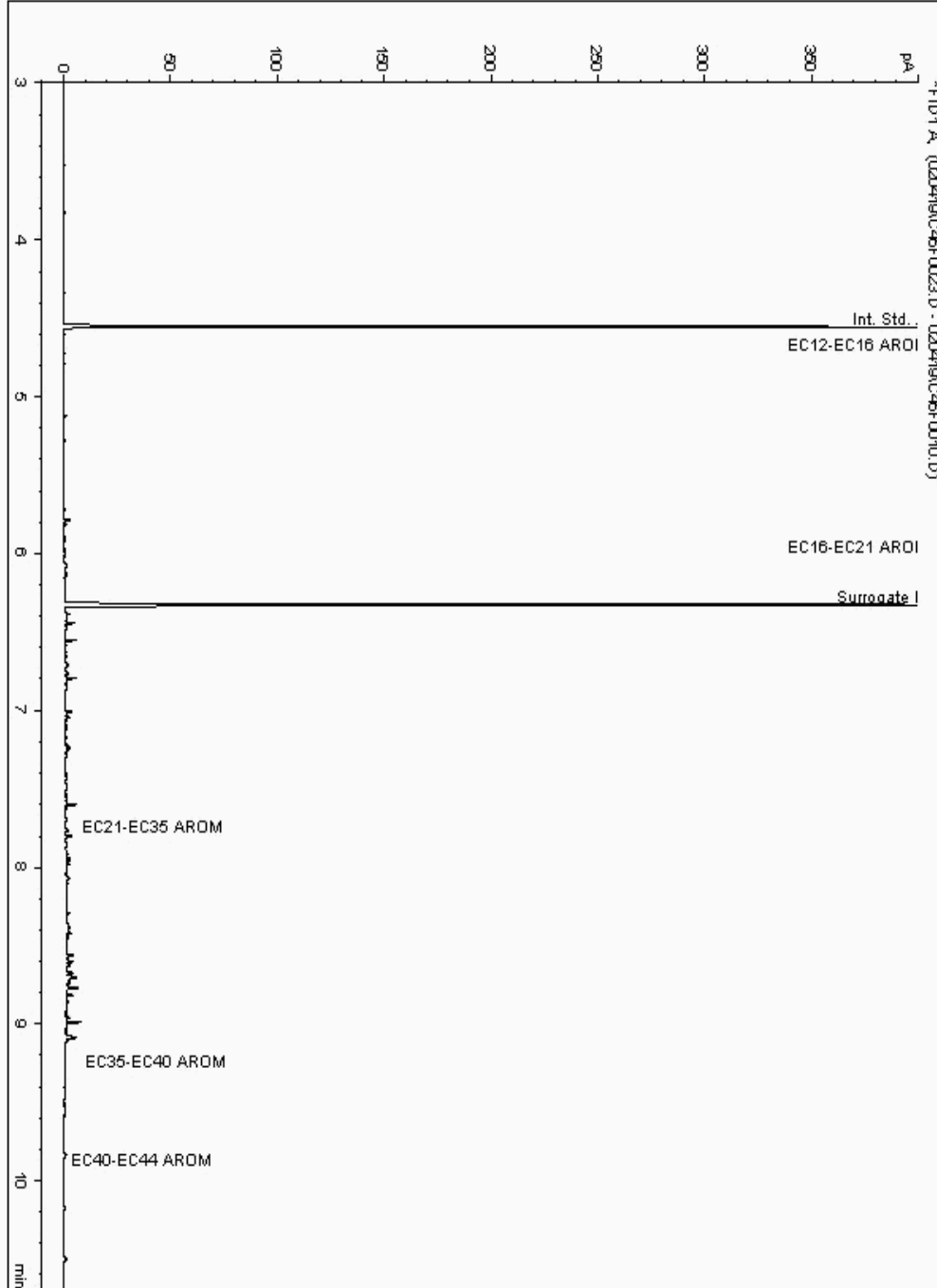
Analysis: EPH CWG (Aromatic) GC (S)
19232528

Sample No :
Sample ID : BH231

19,232,528Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040324-
Date Acquired : 04/02/2019 18:29:30 PM
Units : ppb
Dilution: BH231[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

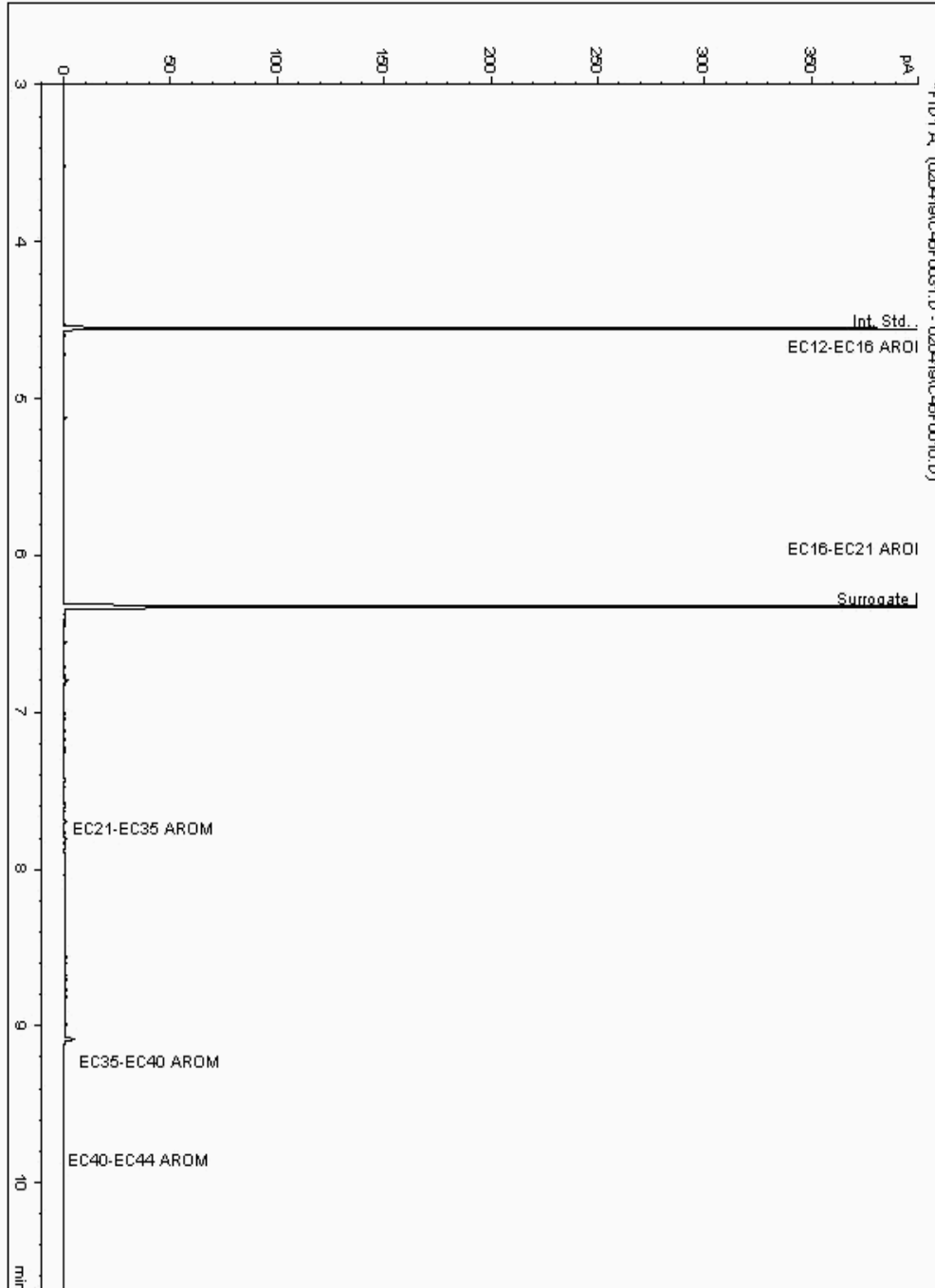
Analysis: EPH CWG (Aromatic) GC (S)
19232651

Sample No :
Sample ID : BH238

19,232,651 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18041409-
Date Acquired : 04/02/2019 20:54:26 PM
Units : ppb
Dilution: BH238[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

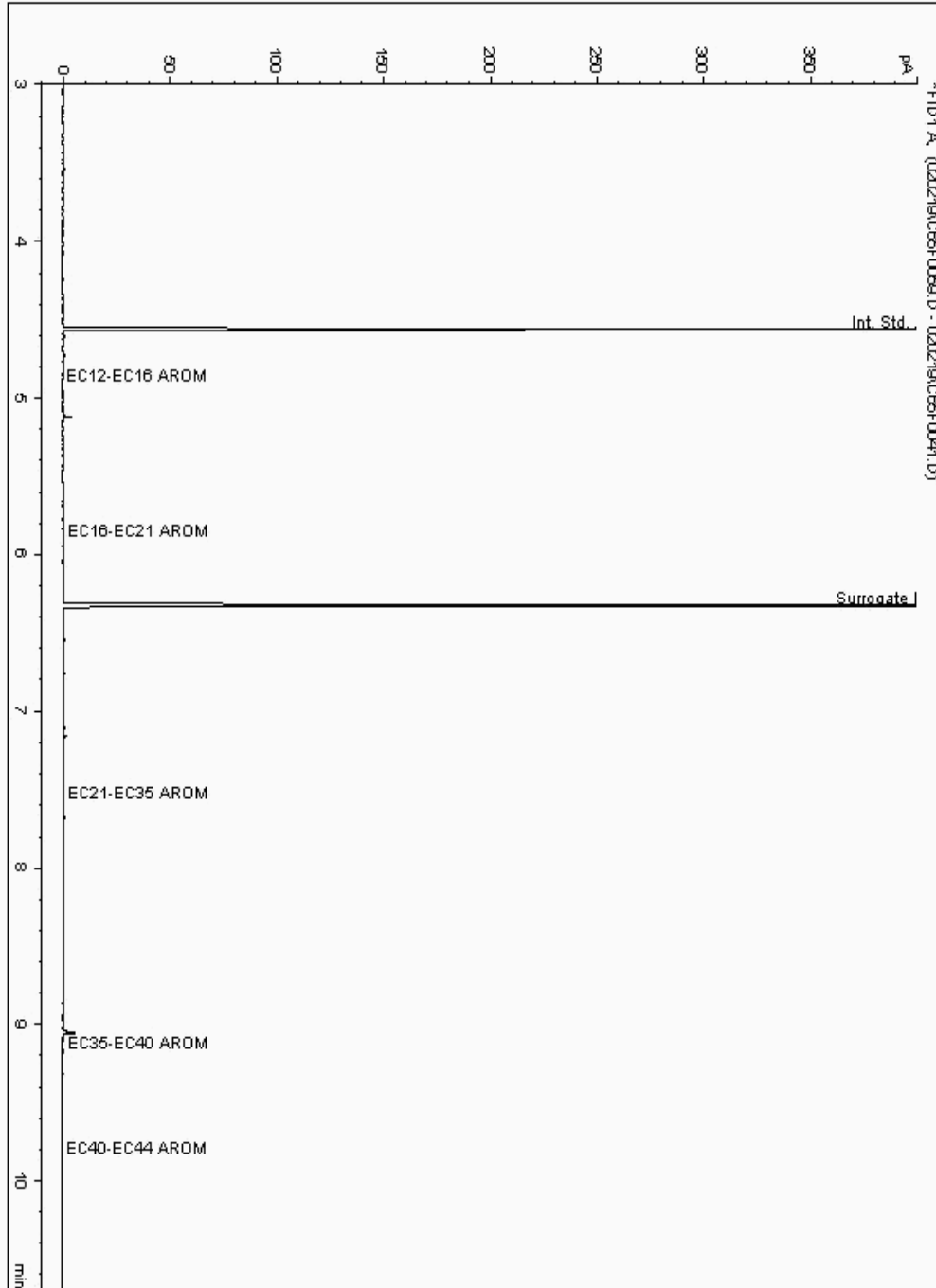
Analysis: EPH CWG (Aromatic) GC (S)
19232737

Sample No :
Sample ID : BH236

19,232,737Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18040795-
Date Acquired : 04/02/2019 16:16:23 PM
Units : ppb
Dilution: BH236[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

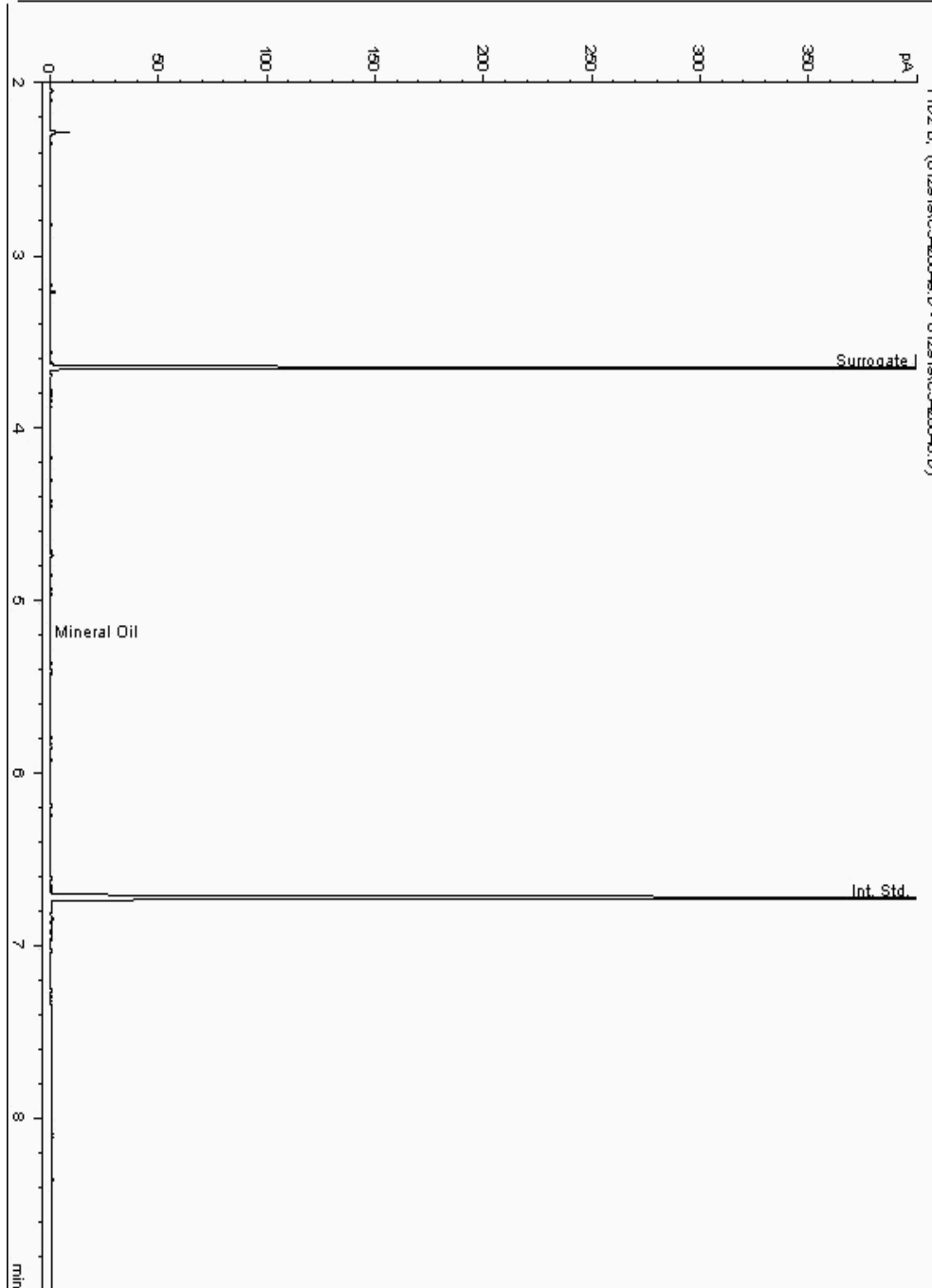
Analysis: Mineral Oil
19207798

Sample No :
Sample ID : BH230

19,207,798 Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040112-
Date Acquired : 29/01/2019 22:33:16 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

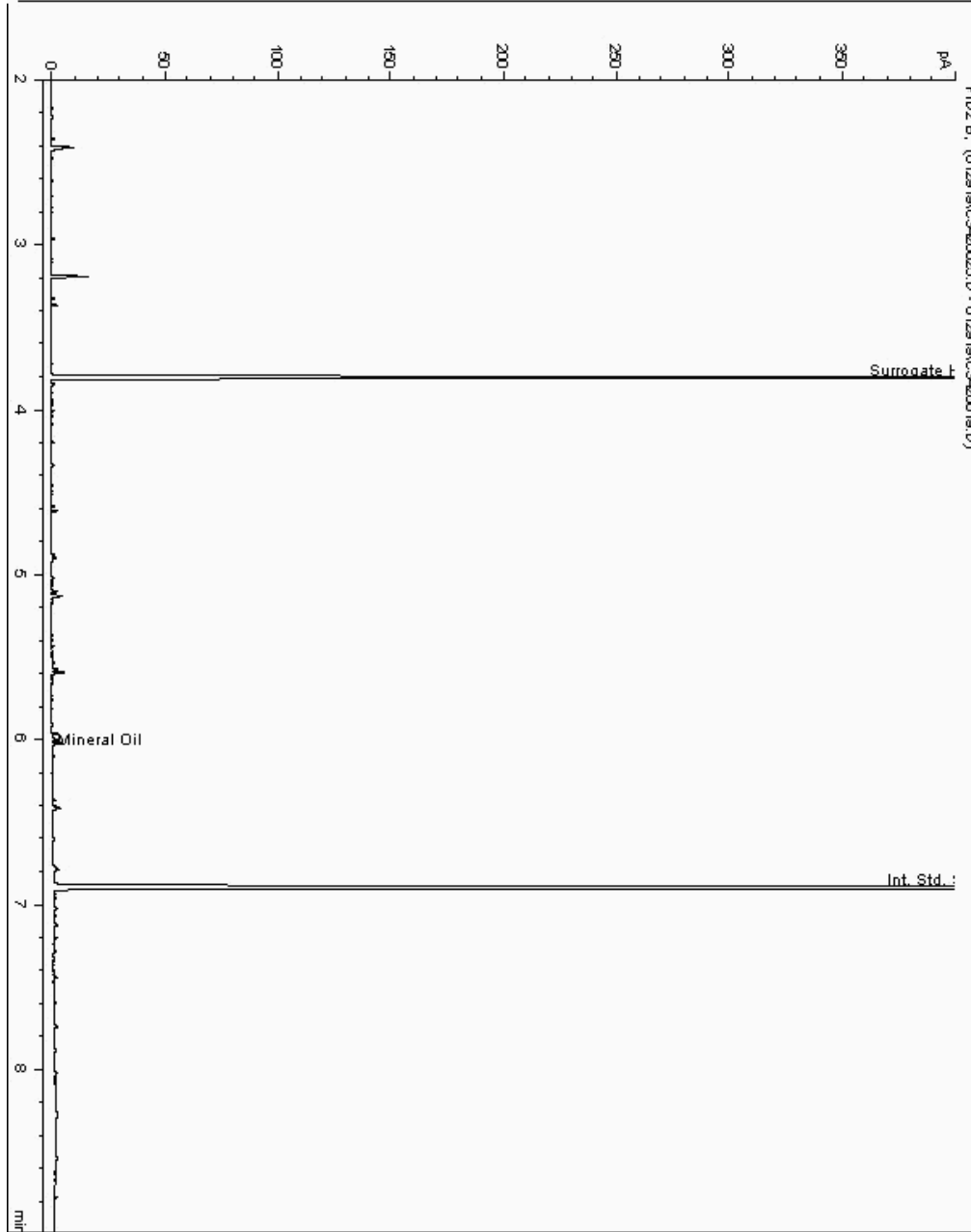
Analysis: Mineral Oil
19207945

Sample No :
Sample ID : BH230

19,207,945 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040004-
Date Acquired : 29/01/19 21:05:52 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

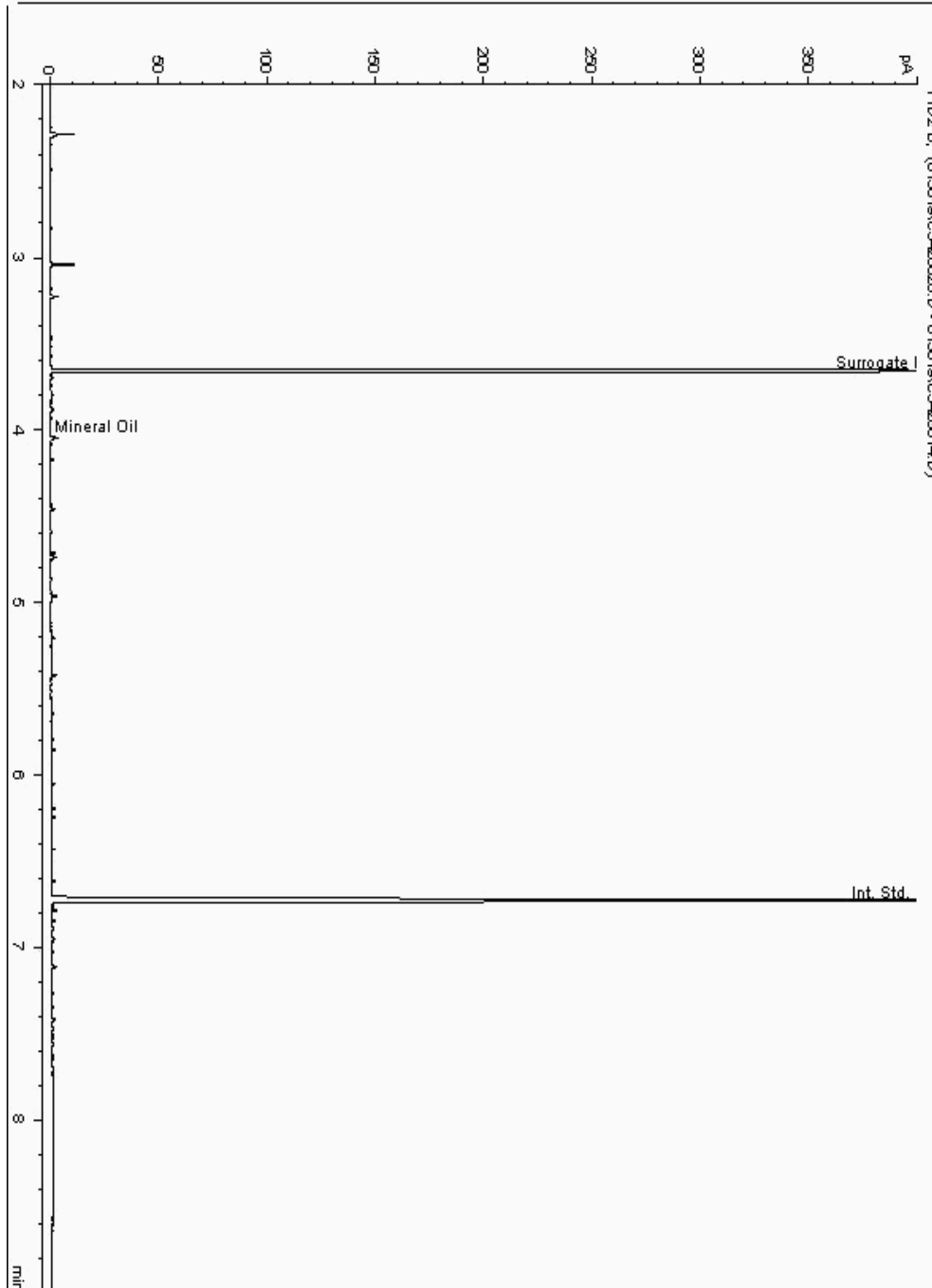
Analysis: Mineral Oil
19207985

Sample No :
Sample ID : BH237

19,207,985Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040867-
Date Acquired : 30/01/2019 15:49:23 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

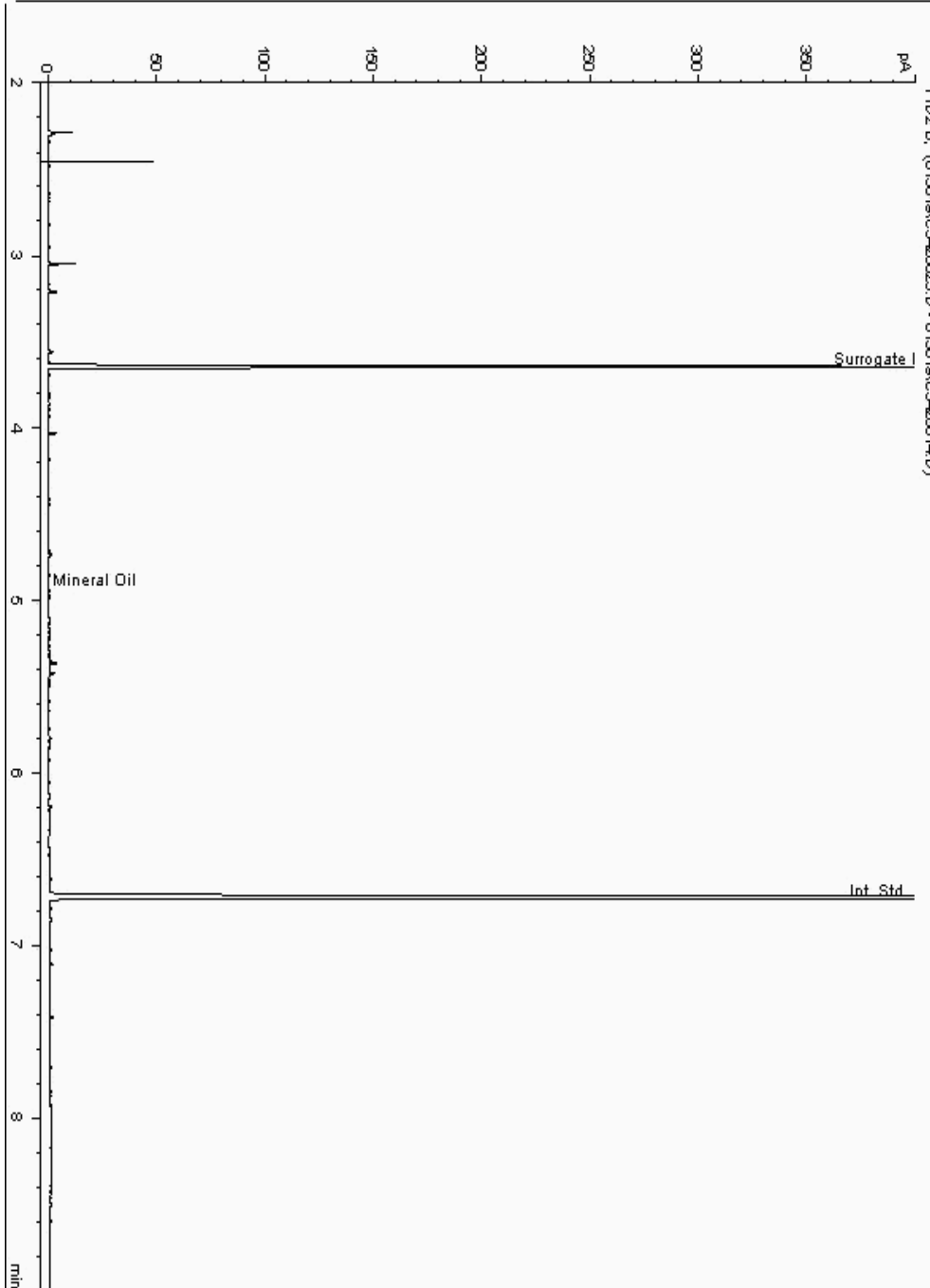
Analysis: Mineral Oil
19208081

Sample No :
Sample ID : BH230

19,208,081 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18039951-
Date Acquired : 30/01/2019 14:46:20 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

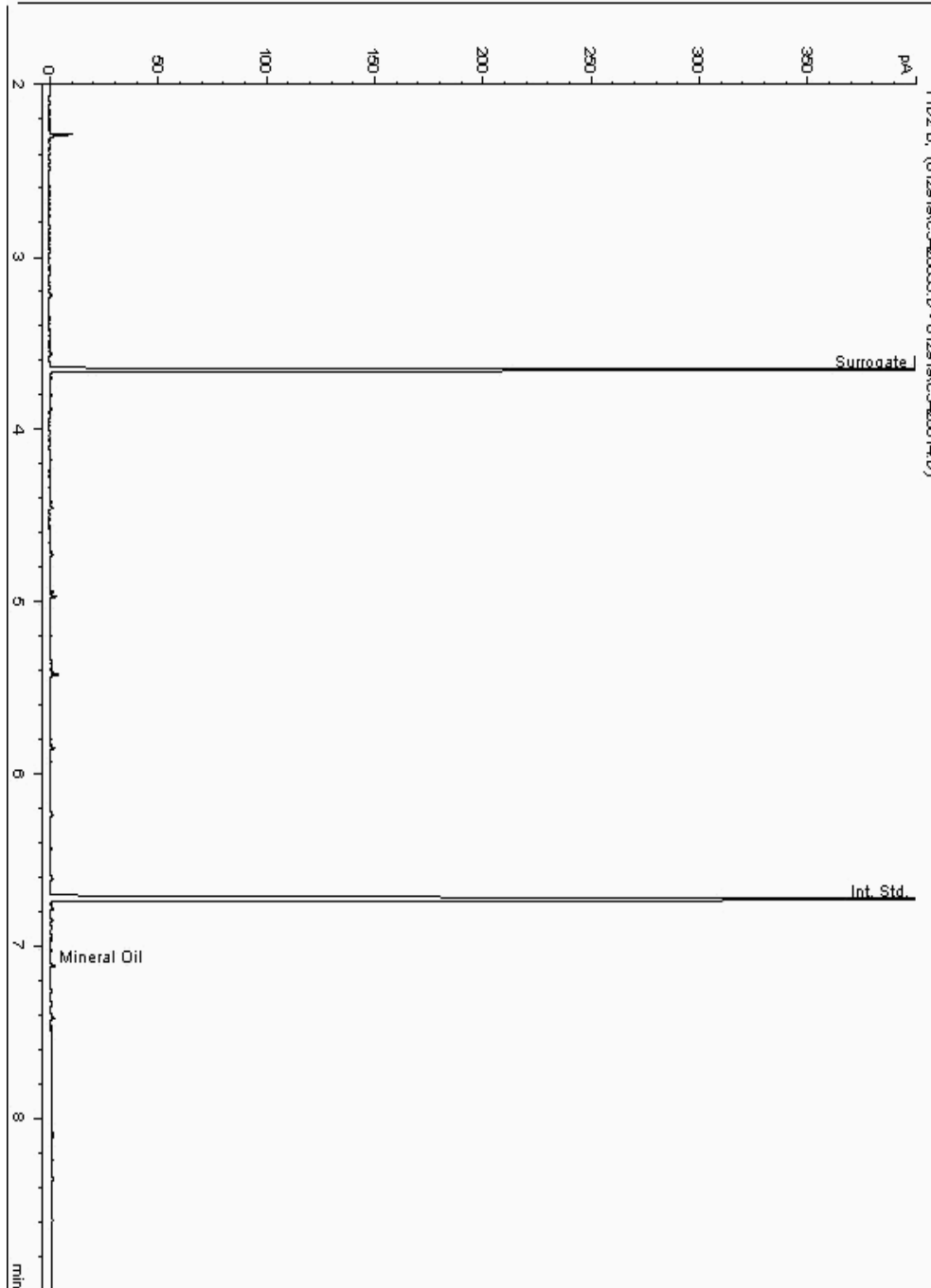
Analysis: Mineral Oil
19208128

Sample No :
Sample ID : BH237

19,208,128Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040890-
Date Acquired : 29/01/2019 18:02:18 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

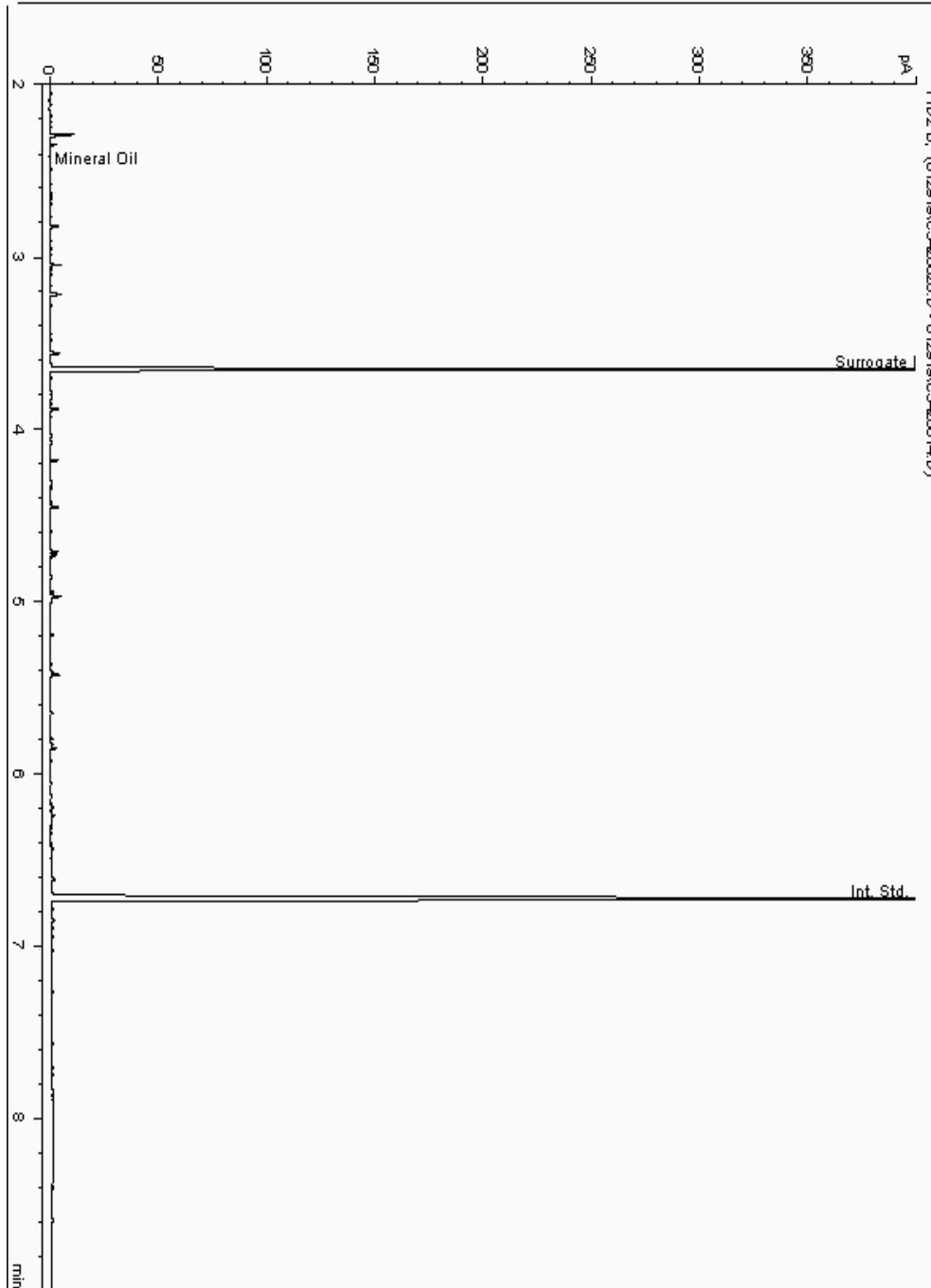
Analysis: Mineral Oil
19208231

Sample No :
Sample ID : BH230

19,208,231 Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040197-
Date Acquired : 29/01/2019 15:51:07 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

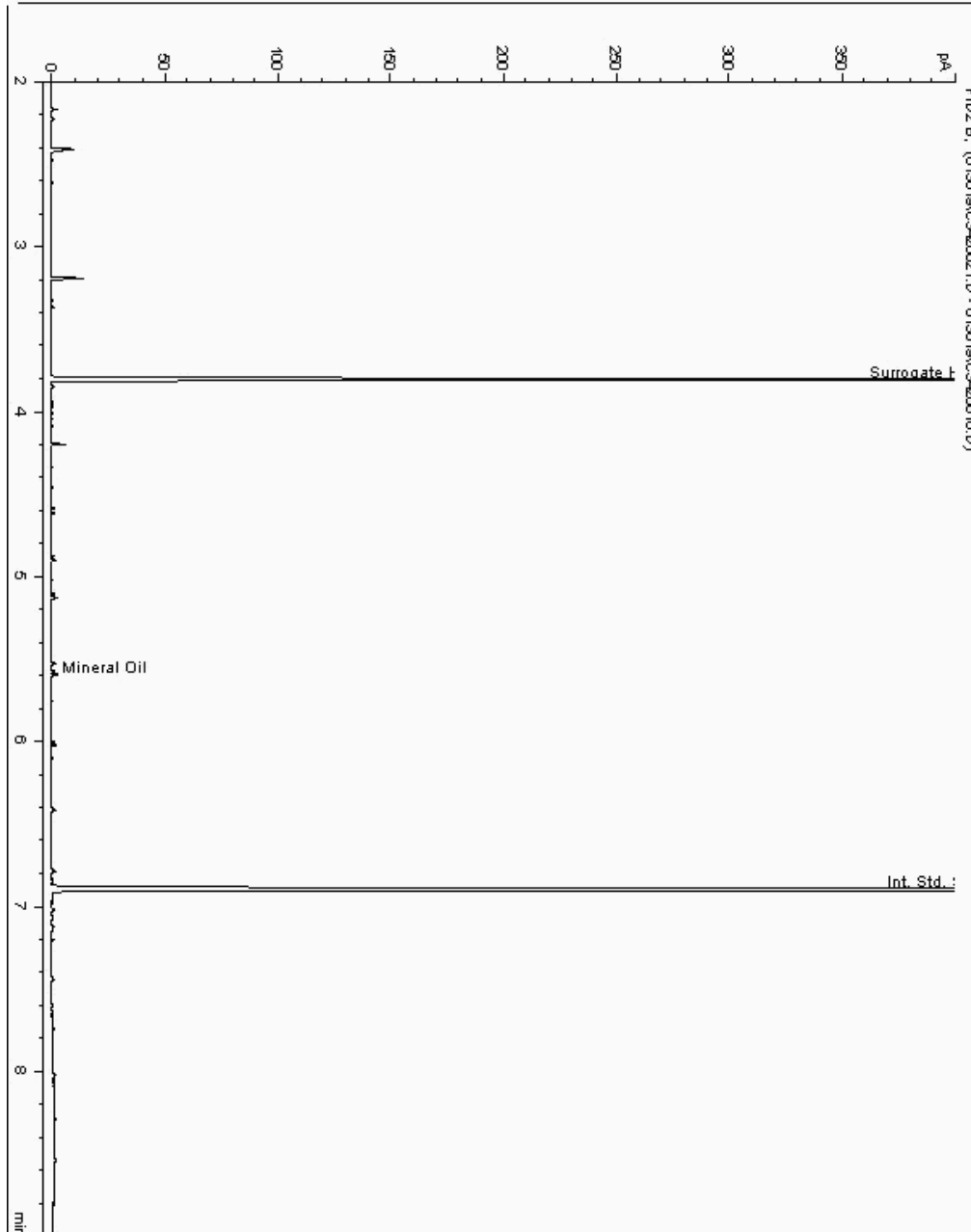
Analysis: Mineral Oil
19208287

Sample No :
Sample ID : BH231

19,208,287Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040503-
Date Acquired : 30/01/19 15:02:51 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

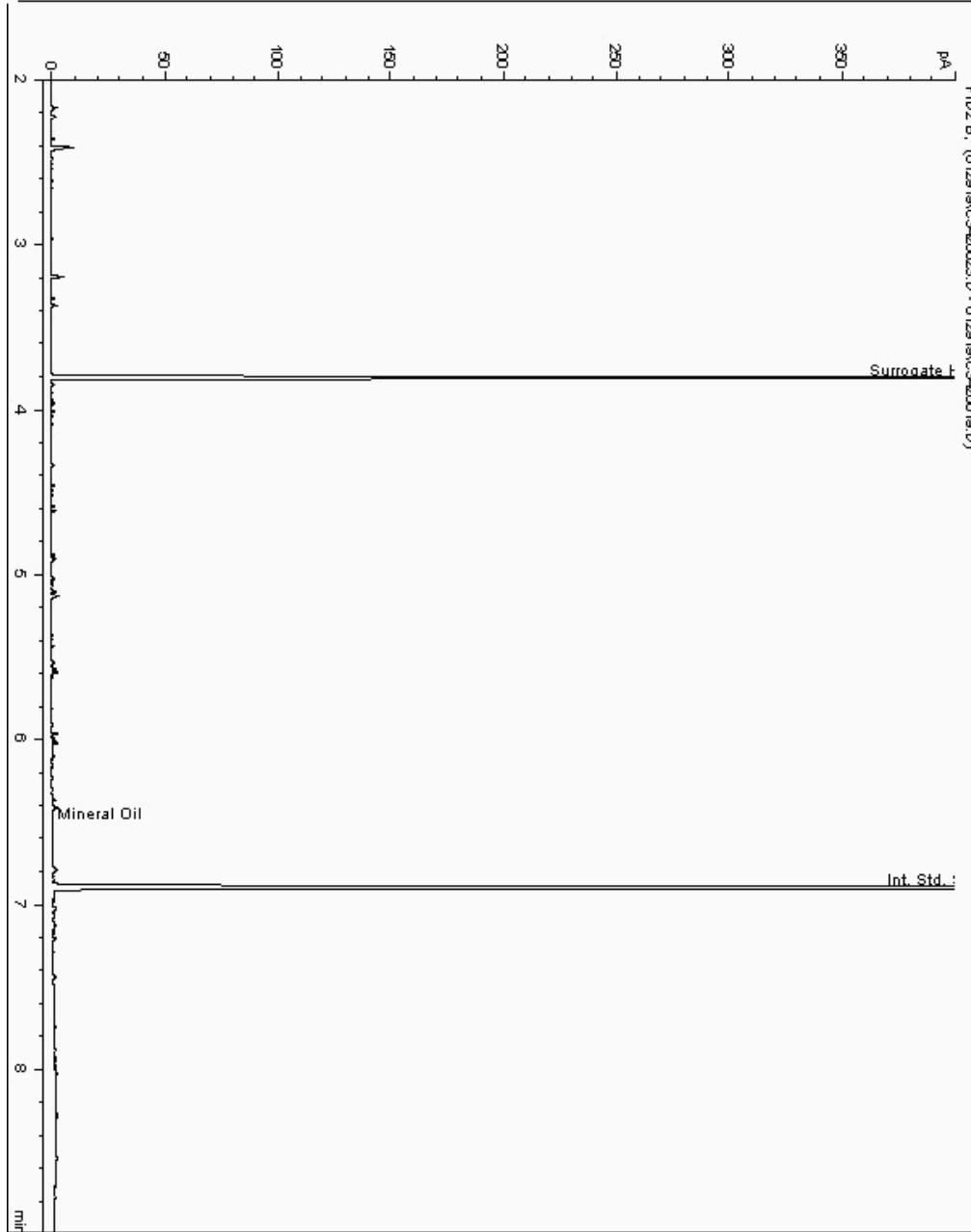
Analysis: Mineral Oil
19208340

Sample No :
Sample ID : BH230

19,208,340 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040145-
Date Acquired : 29/01/19 20:25:14 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

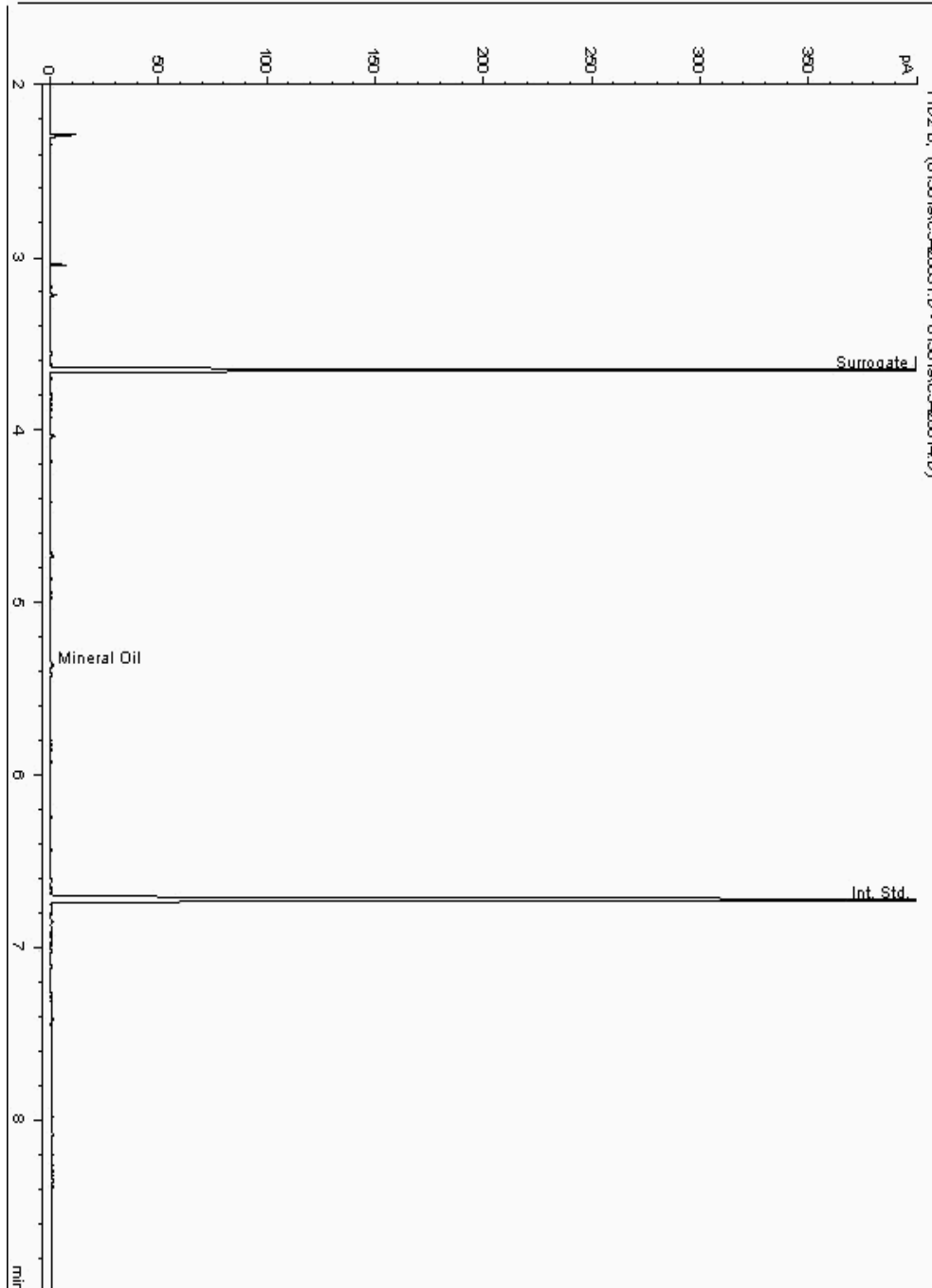
Analysis: Mineral Oil
19208385

Sample No :
Sample ID : BH237

19,208,385Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041030-
Date Acquired : 30/01/2019 16:52:14 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

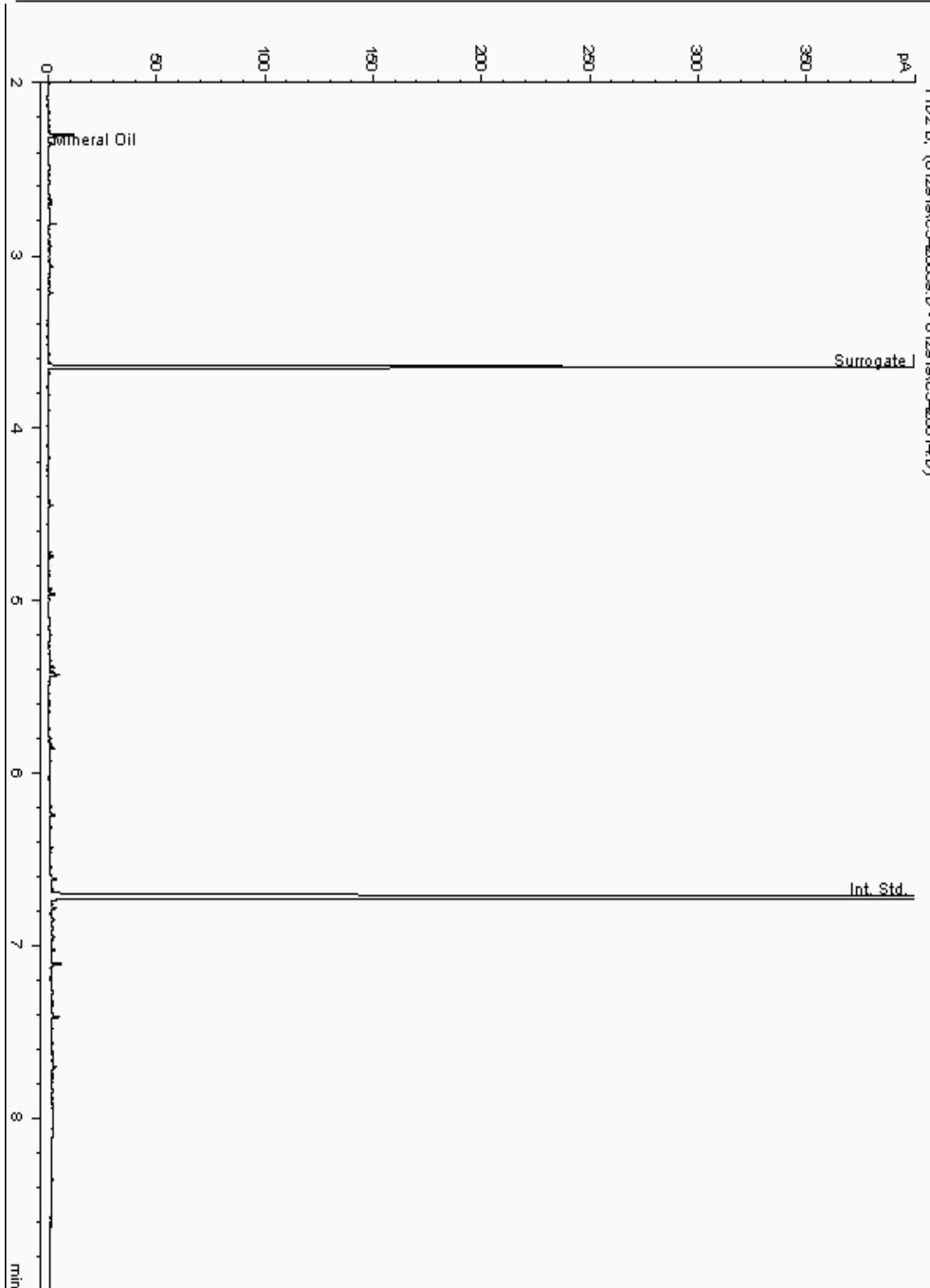
Analysis: Mineral Oil
19208403

Sample No :
Sample ID : BH230

19,208,403Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18039875-
Date Acquired : 29/01/2019 19:18:40 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

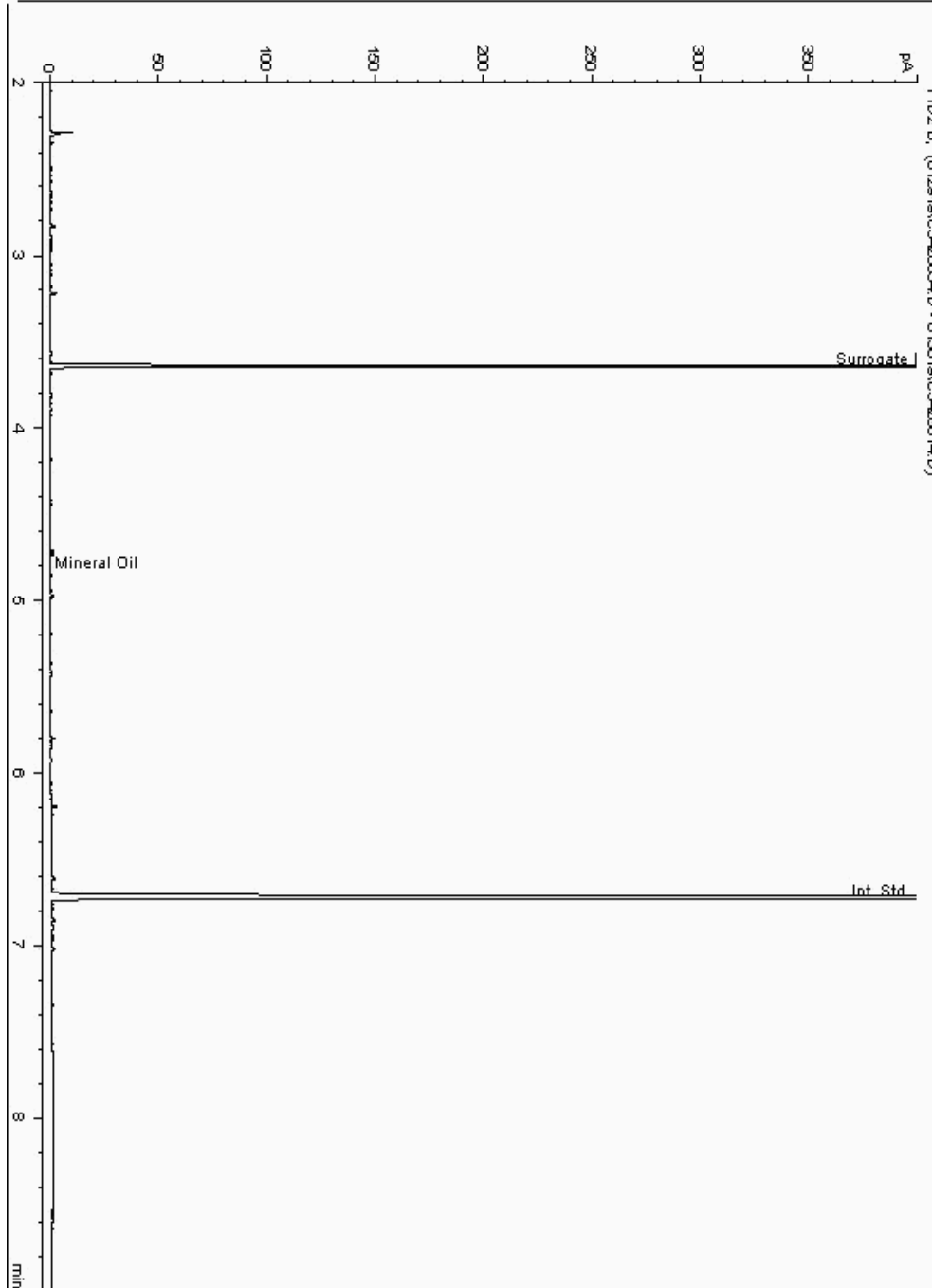
Analysis: Mineral Oil
19208426

Sample No :
Sample ID : BH231

19,208,426 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040526-
Date Acquired : 30/01/2019 00:09:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

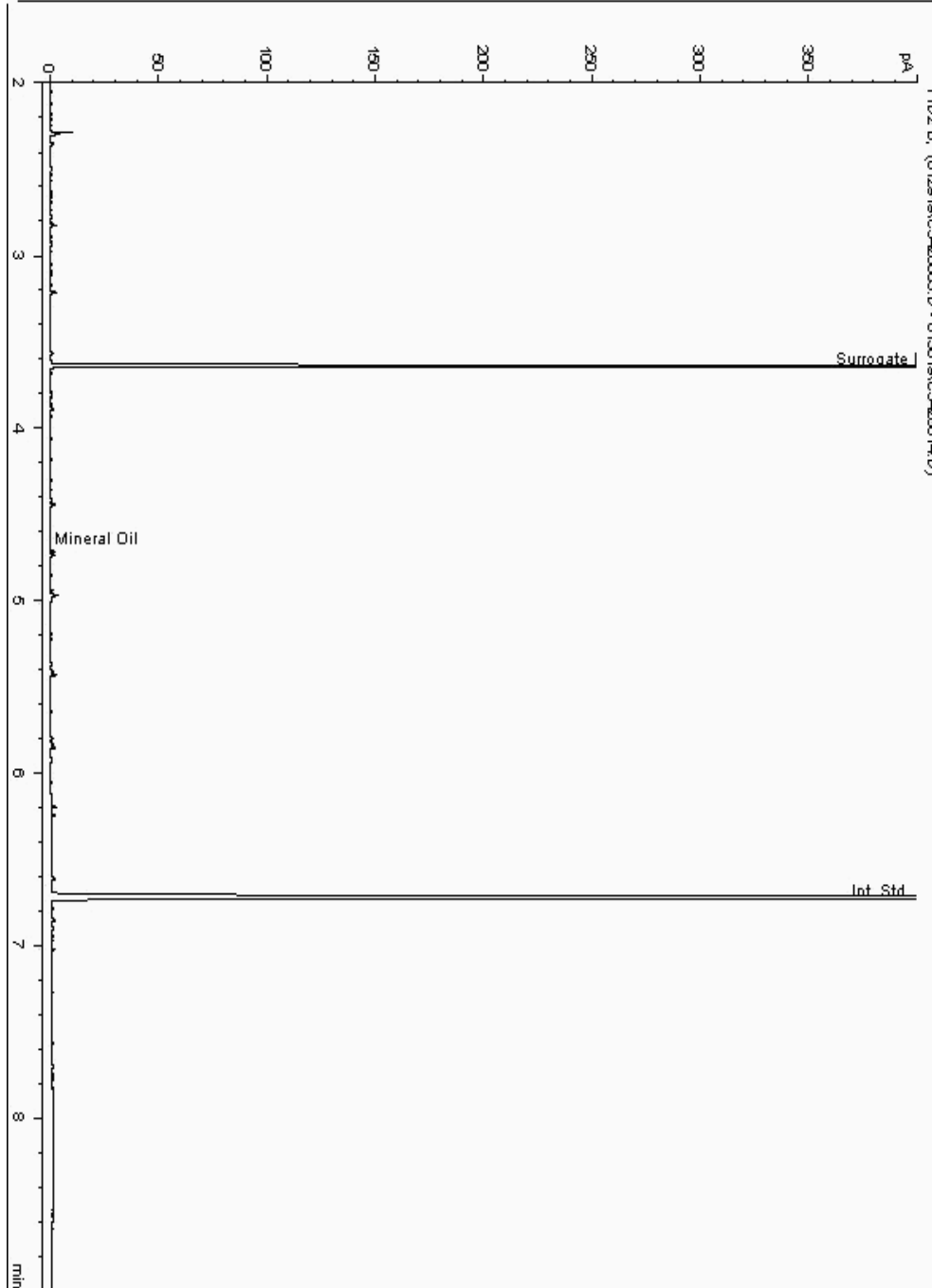
Analysis: Mineral Oil
19208511

Sample No :
Sample ID : BH230

19,208,511 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040172-
Date Acquired : 30/01/2019 03:09:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

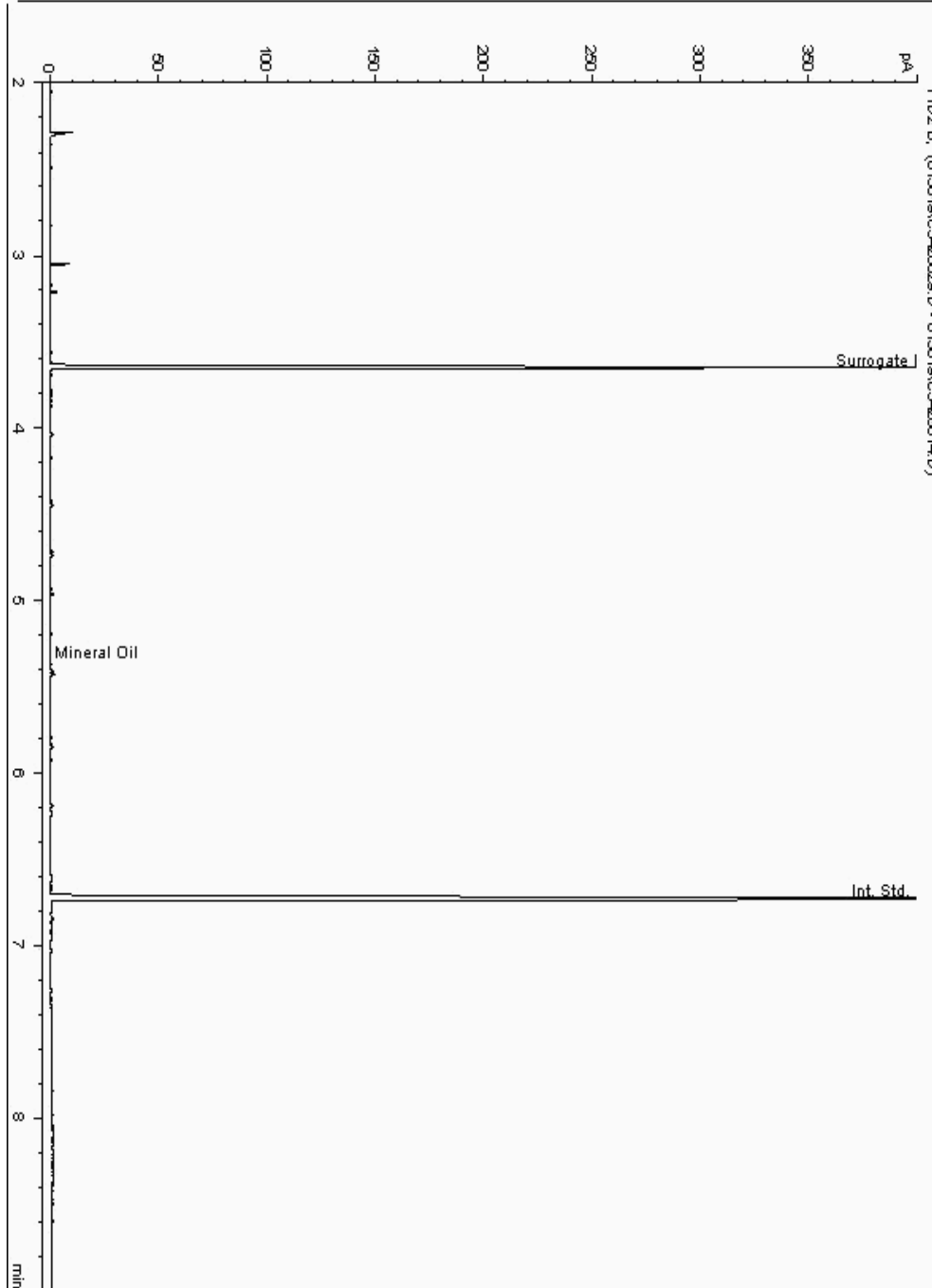
Analysis: Mineral Oil
19208547

Sample No :
Sample ID : BH238

19,208,547Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041536-
Date Acquired : 30/01/2019 16:10:18 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

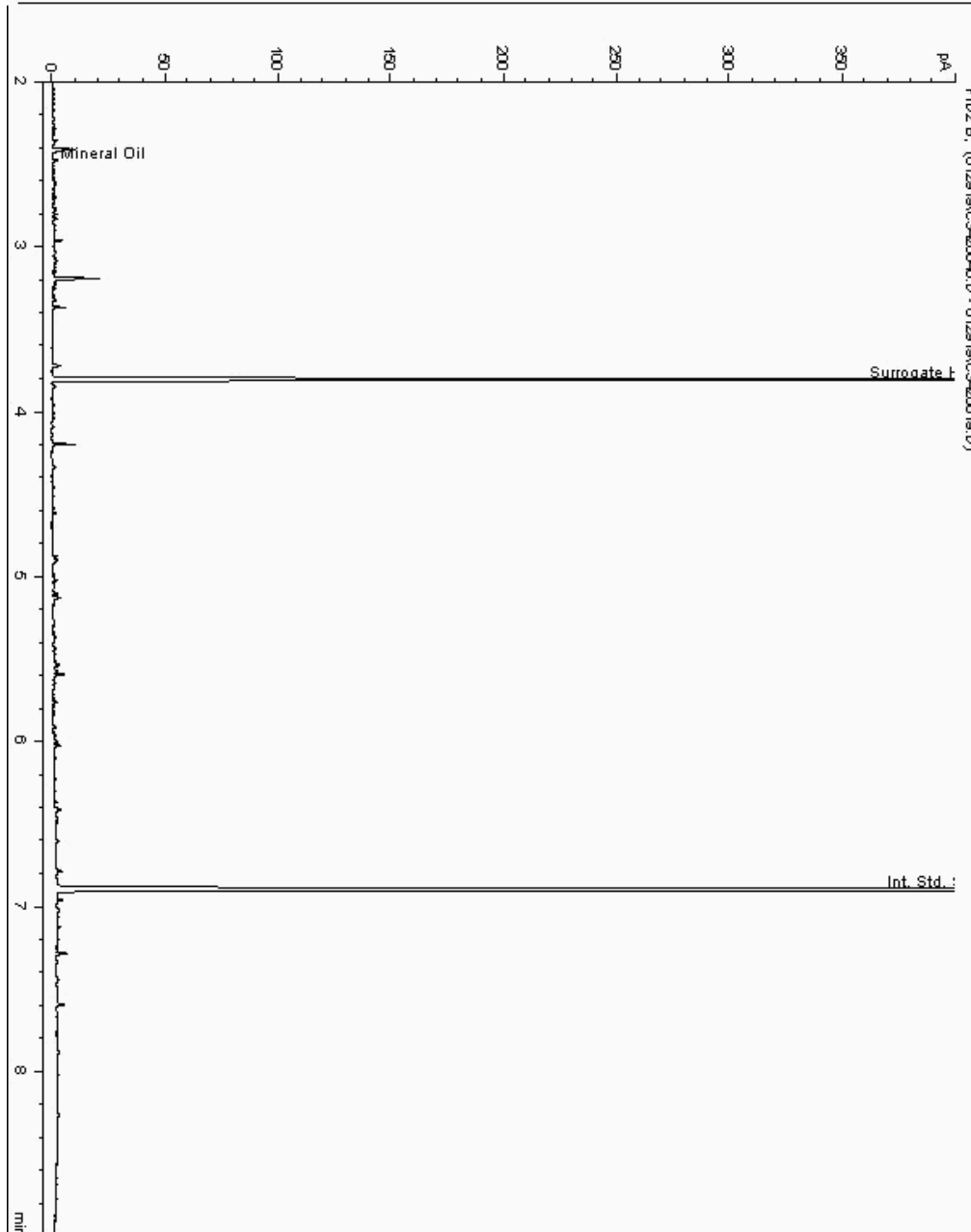
Analysis: Mineral Oil
19208555

Sample No :
Sample ID : BH230

19,208,555Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18039901-
Date Acquired : 30/01/19 02:55:21 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

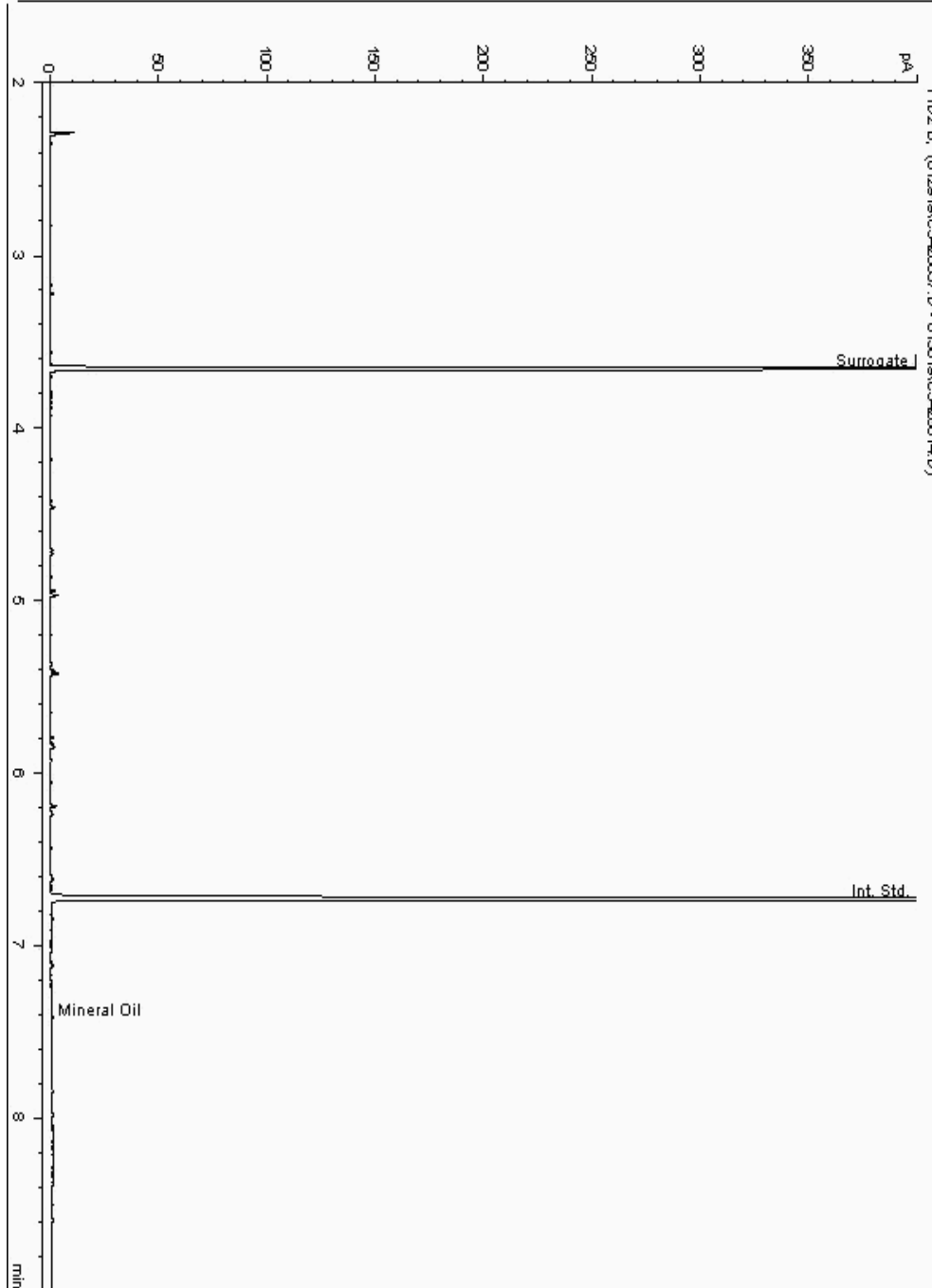
Analysis: Mineral Oil
19208563

Sample No :
Sample ID : BH237

19,208,563Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041093-
Date Acquired : 30/01/2019 01:12:47 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

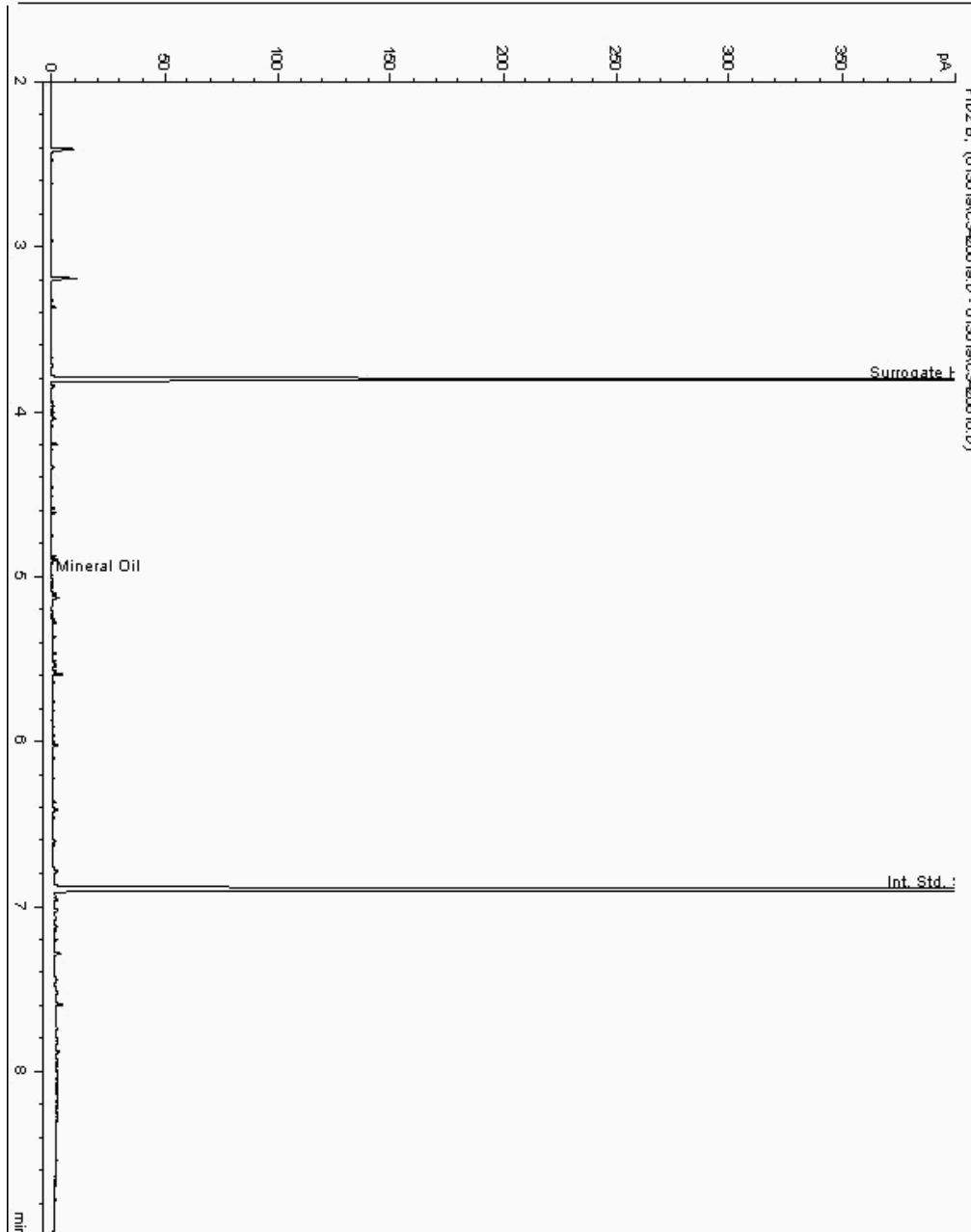
Analysis: Mineral Oil
19208667

Sample No :
Sample ID : BH230

19,208,667Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18039743-
Date Acquired : 30/01/19 14:22:04 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

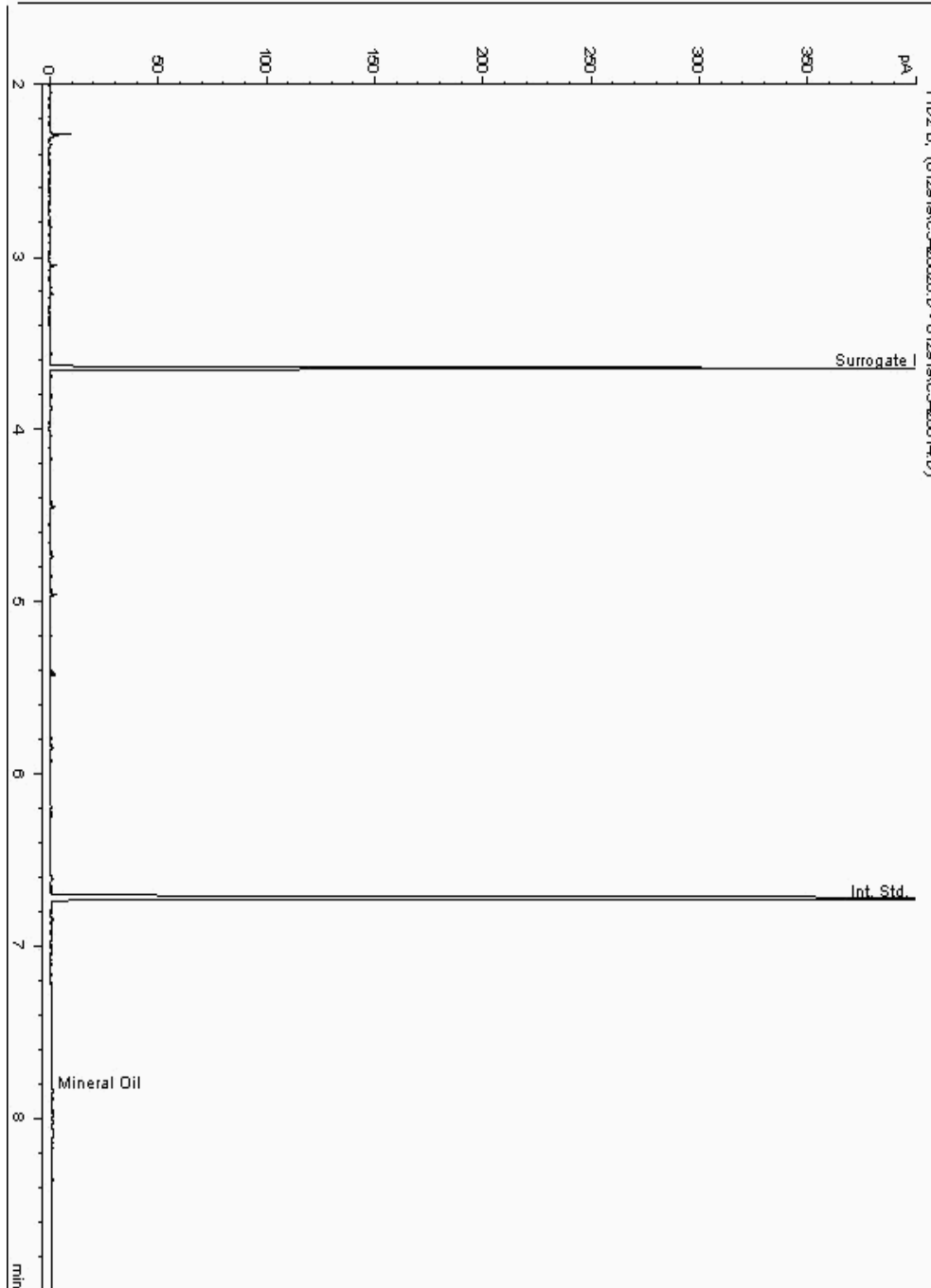
Analysis: Mineral Oil
19208669

Sample No :
Sample ID : BH238

19,208,669Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041593-
Date Acquired : 29/01/2019 14:44:56 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

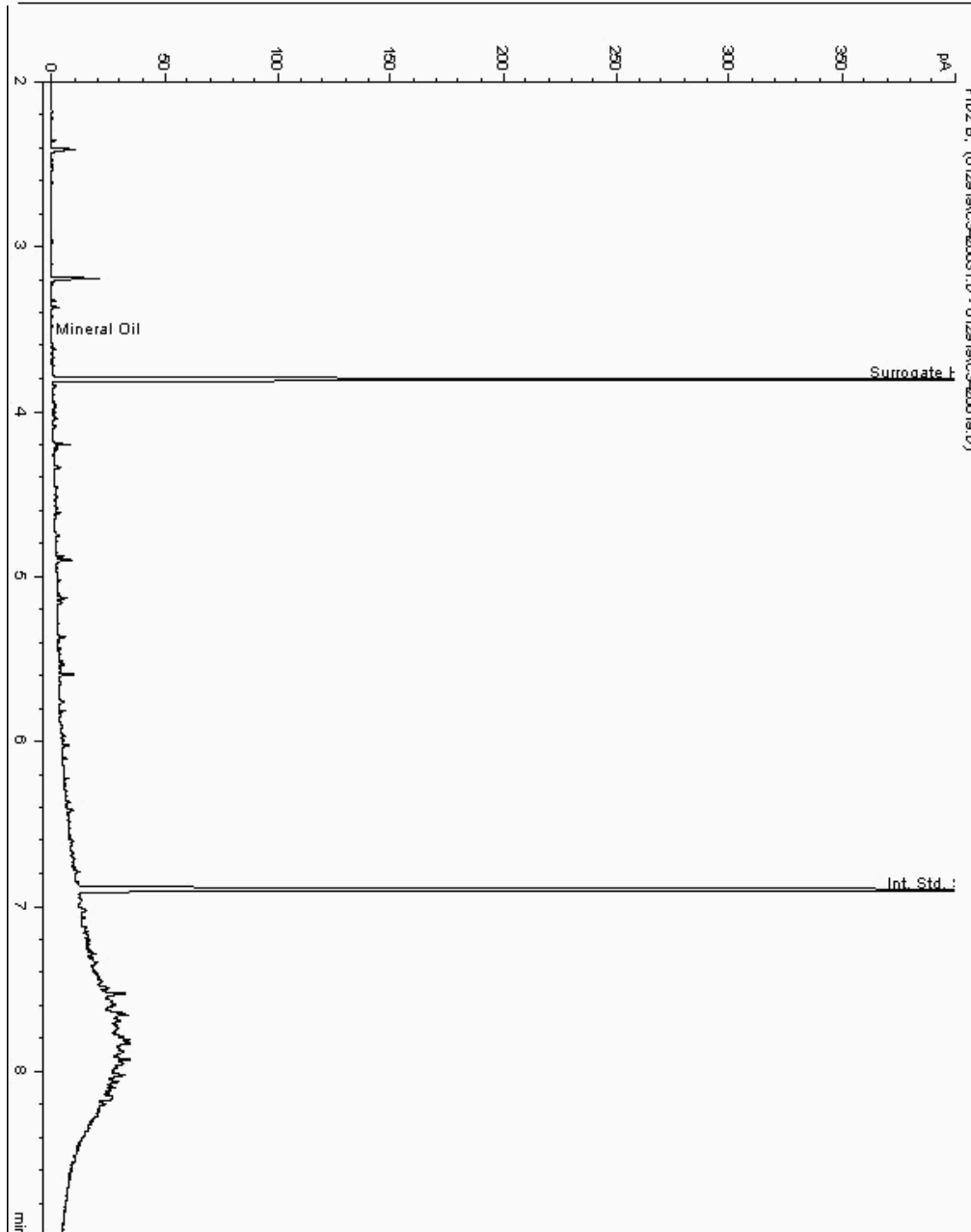
Analysis: Mineral Oil
19208689

Sample No :
Sample ID : BH236

19,208,689Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040573-
Date Acquired : 29/01/19 22:59:51 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

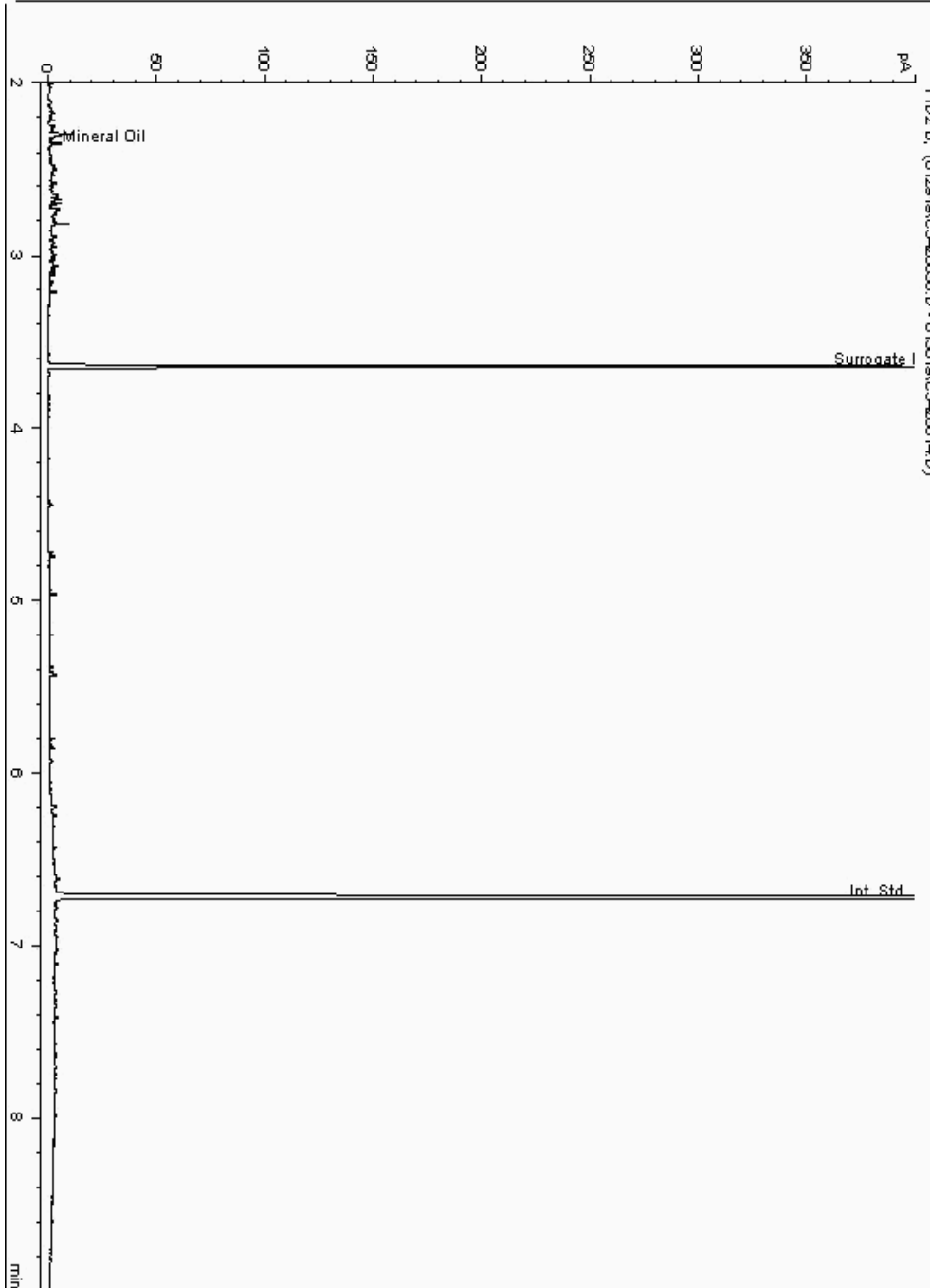
Analysis: Mineral Oil
19208700

Sample No :
Sample ID : BH230

19,208,700Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18039779-
Date Acquired : 30/01/2019 00:51:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

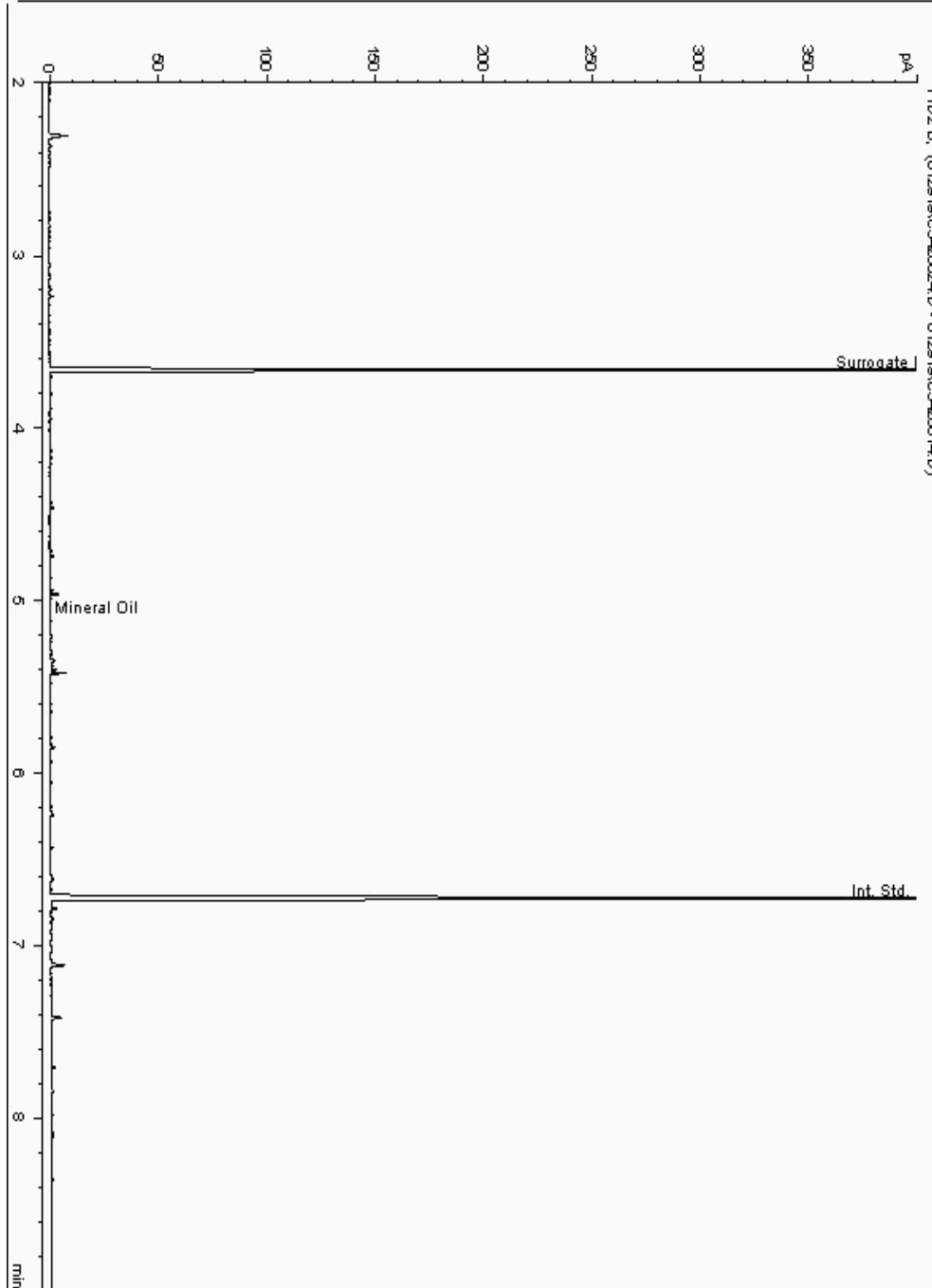
Analysis: Mineral Oil
19208743

Sample No :
Sample ID : BH237

19,208,743Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040939-
Date Acquired : 29/01/2019 14:11:00 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

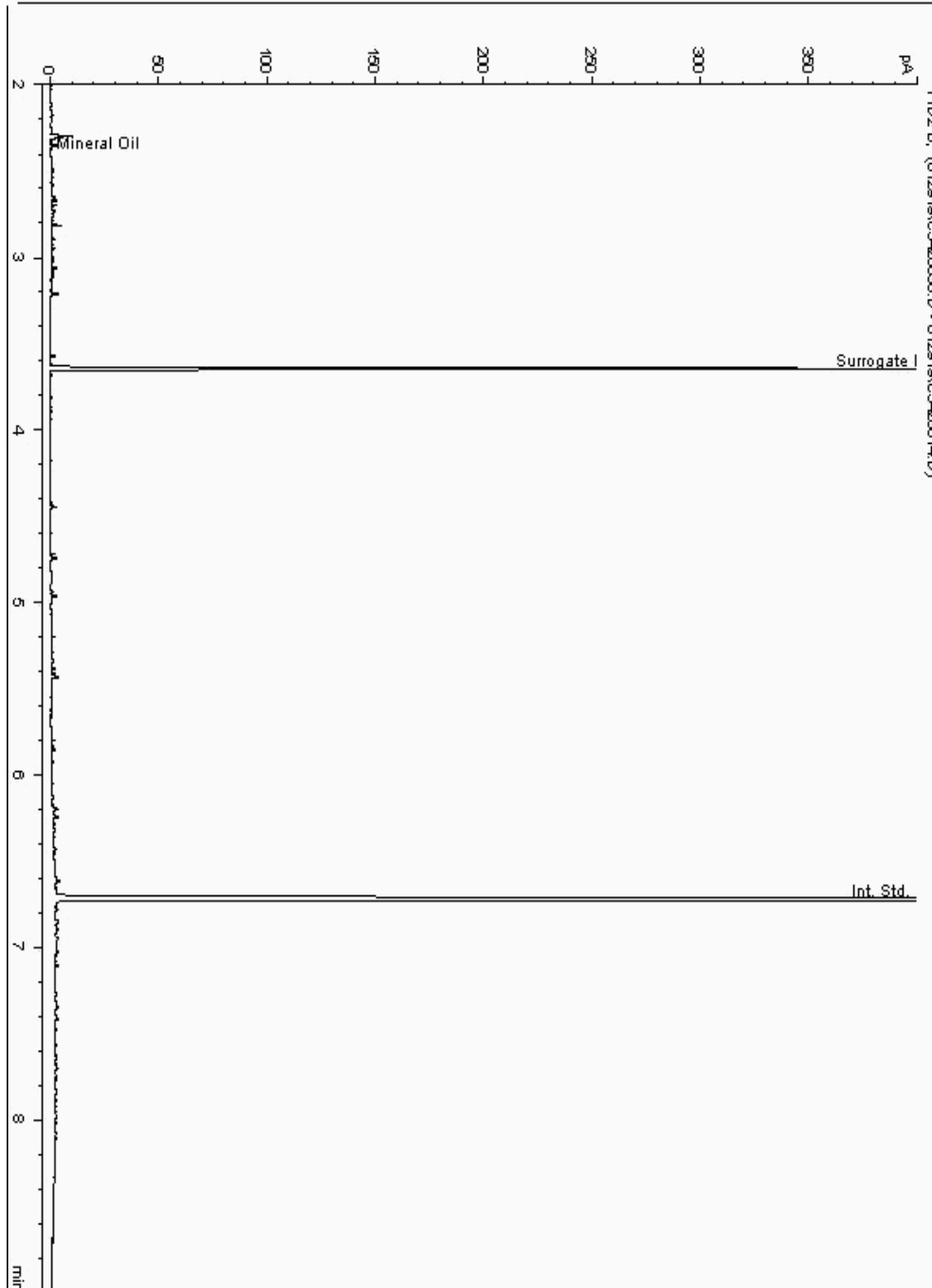
Analysis: Mineral Oil
19208755

Sample No :
Sample ID : BH230

19,208,755Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18039831-
Date Acquired : 29/01/2019 18:57:33 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

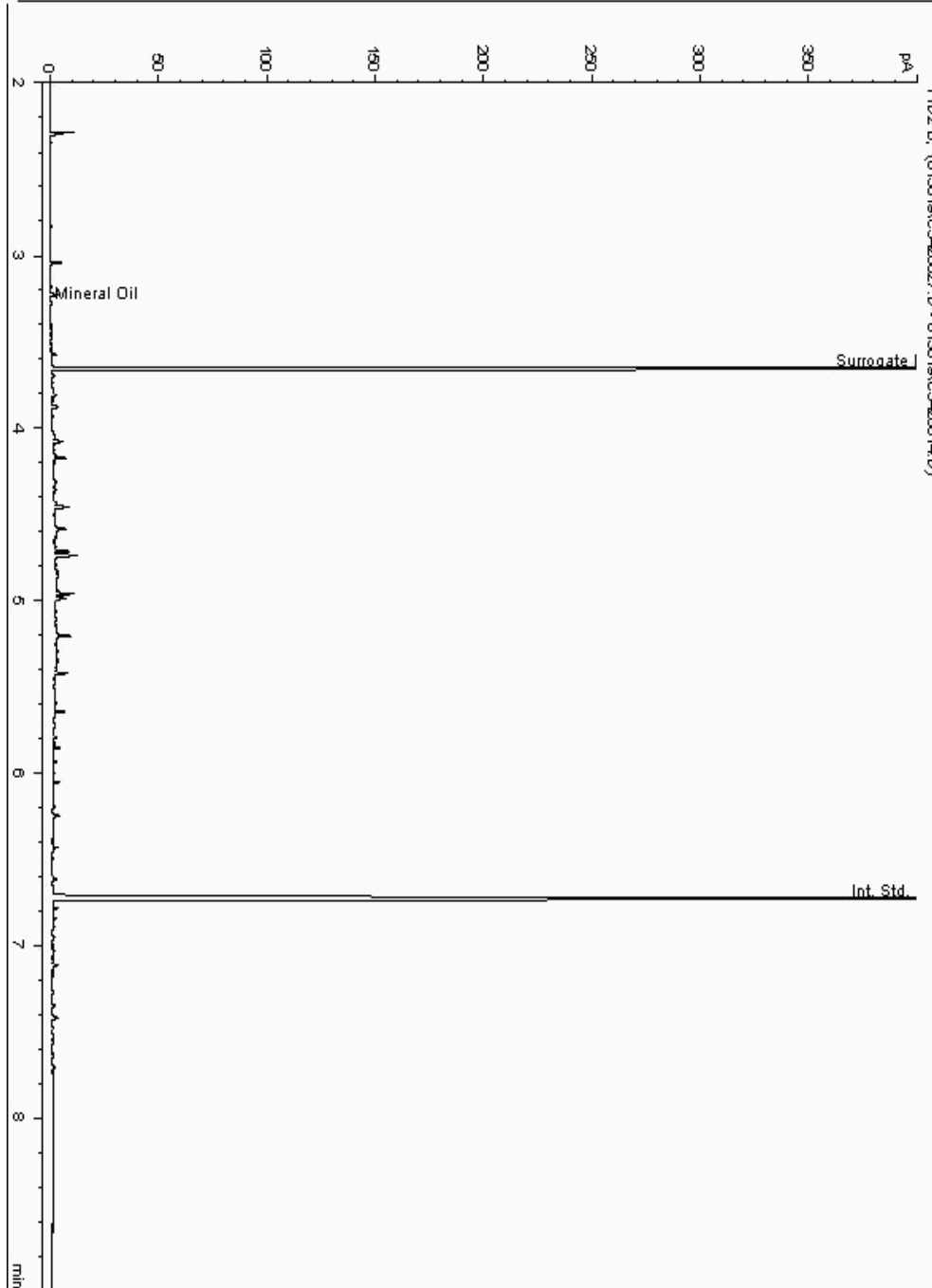
Analysis: Mineral Oil
19208759

Sample No :
Sample ID : BH236

19,208,759Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040549-
Date Acquired : 30/01/2019 15:28:14 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

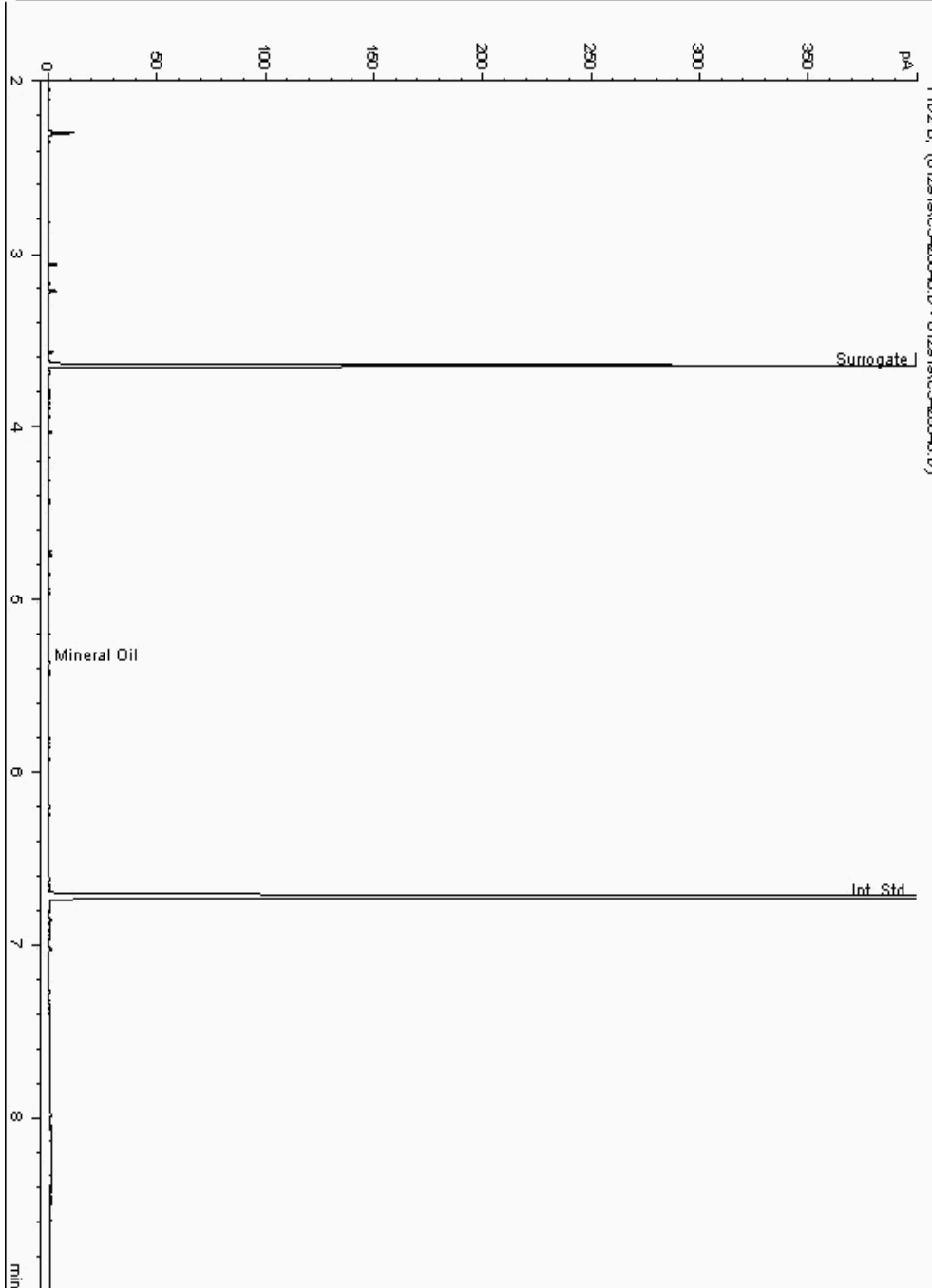
Analysis: Mineral Oil
19208844

Sample No :
Sample ID : BH238

19,208,844Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041513-
Date Acquired : 29/01/2019 21:38:03 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

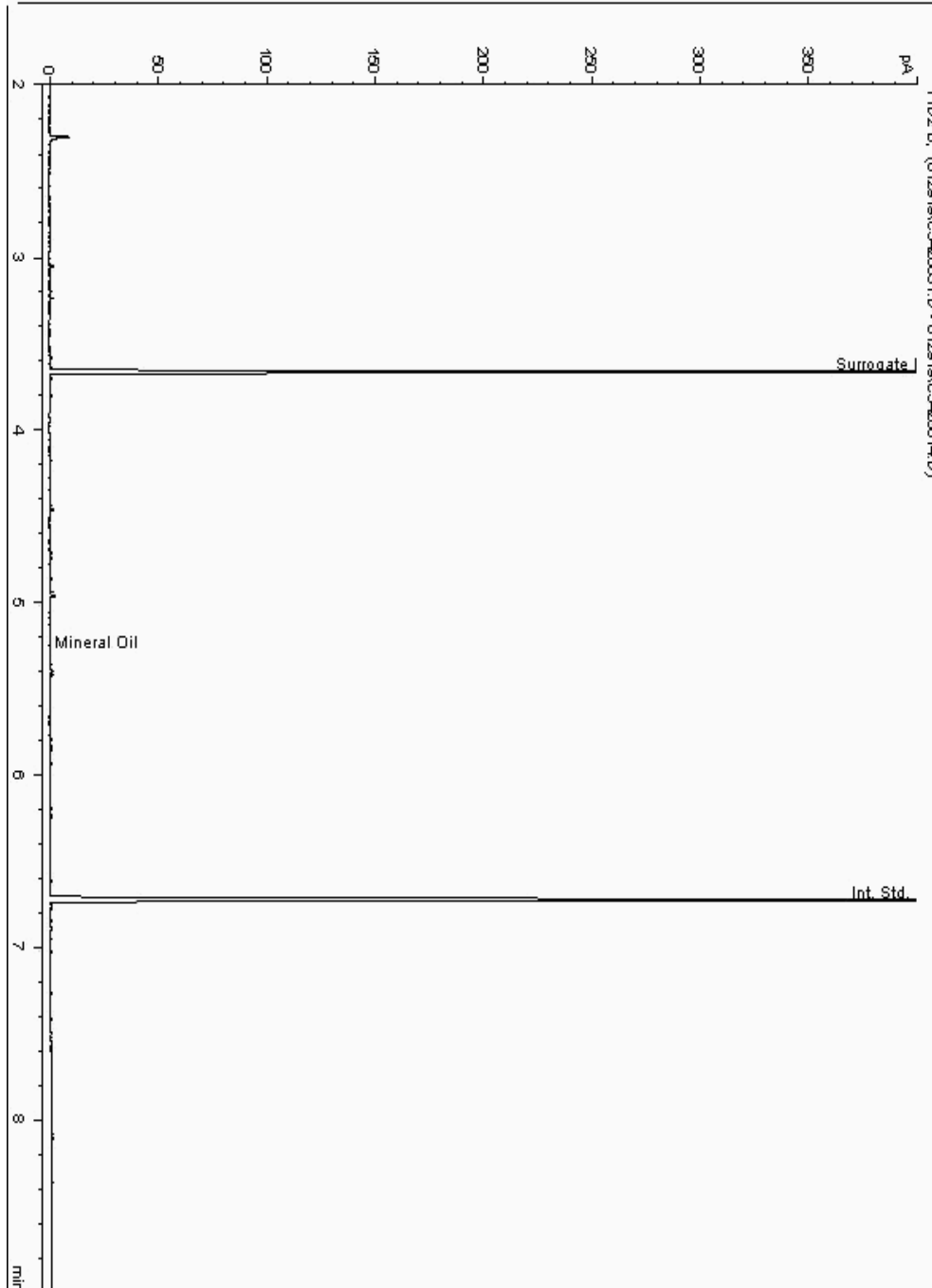
Analysis: Mineral Oil
19208864

Sample No :
Sample ID : BH237

19,208,864Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041146-
Date Acquired : 29/01/2019 16:45:44 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

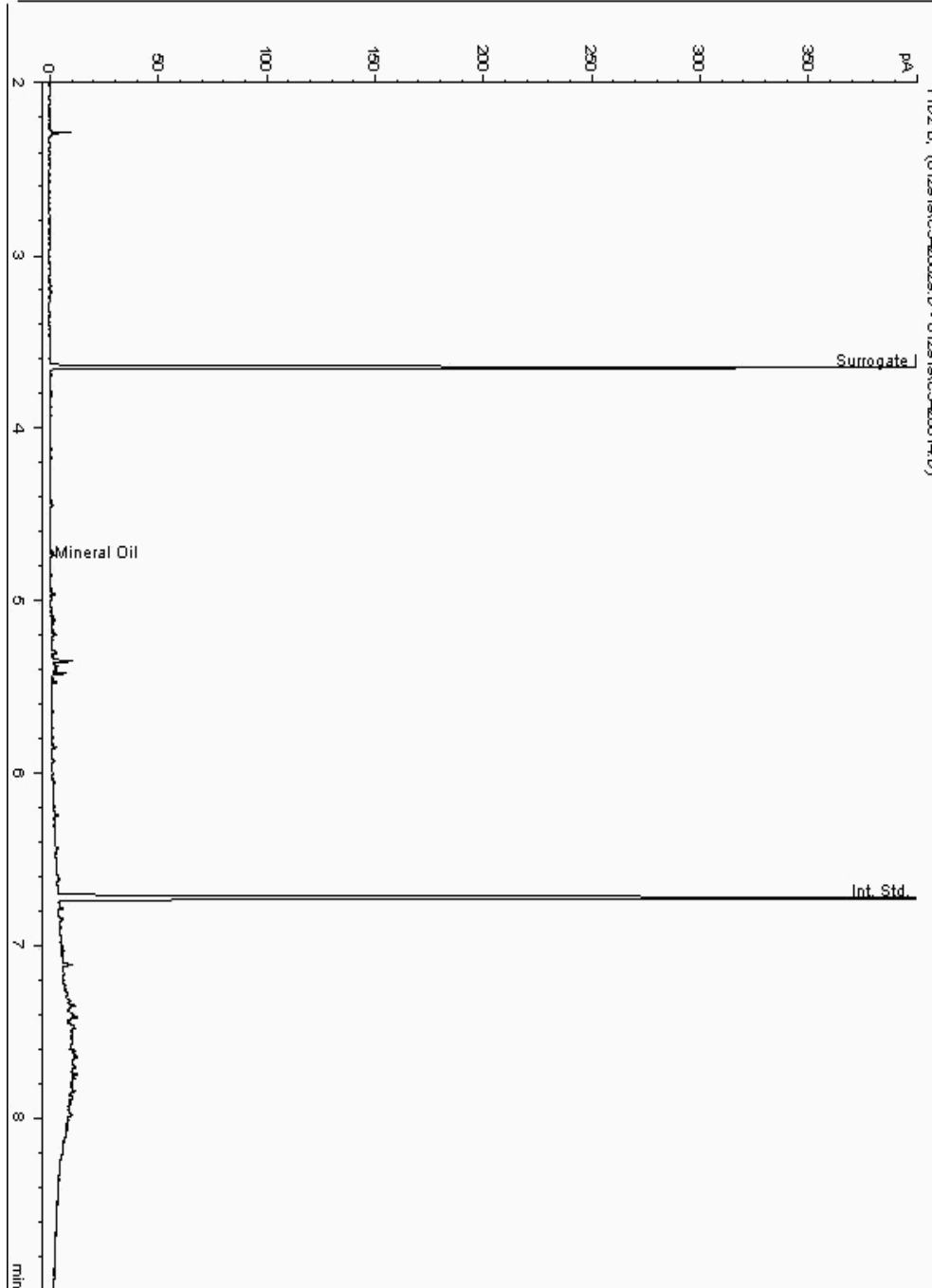
Analysis: Mineral Oil
19208919

Sample No :
Sample ID : BH236

19,208,919 Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040621-
Date Acquired : 29/01/2019 16:12:10 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

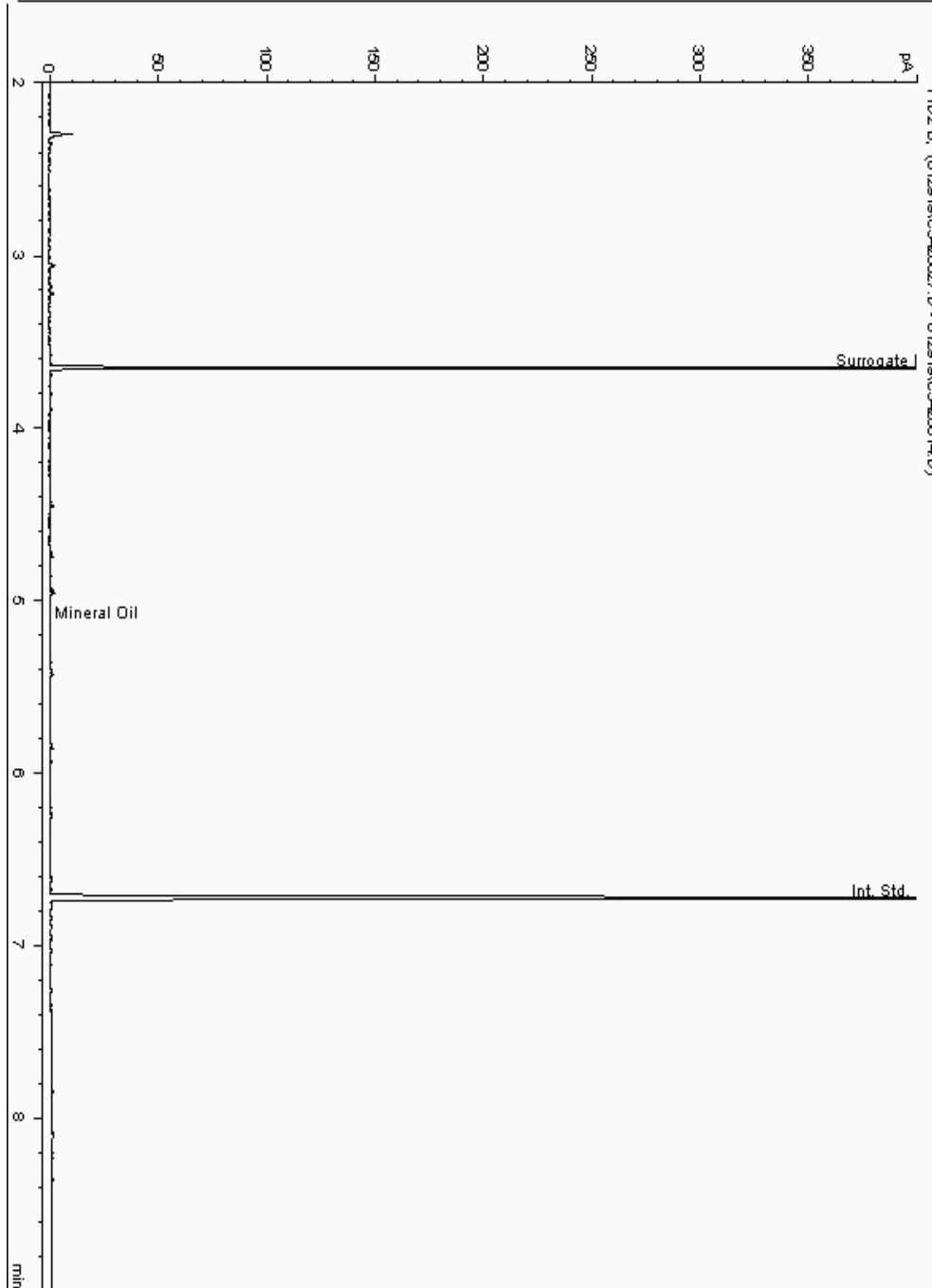
Analysis: Mineral Oil
19208968

Sample No :
Sample ID : BH237

19,208,968Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041189-
Date Acquired : 29/01/2019 15:08:49 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

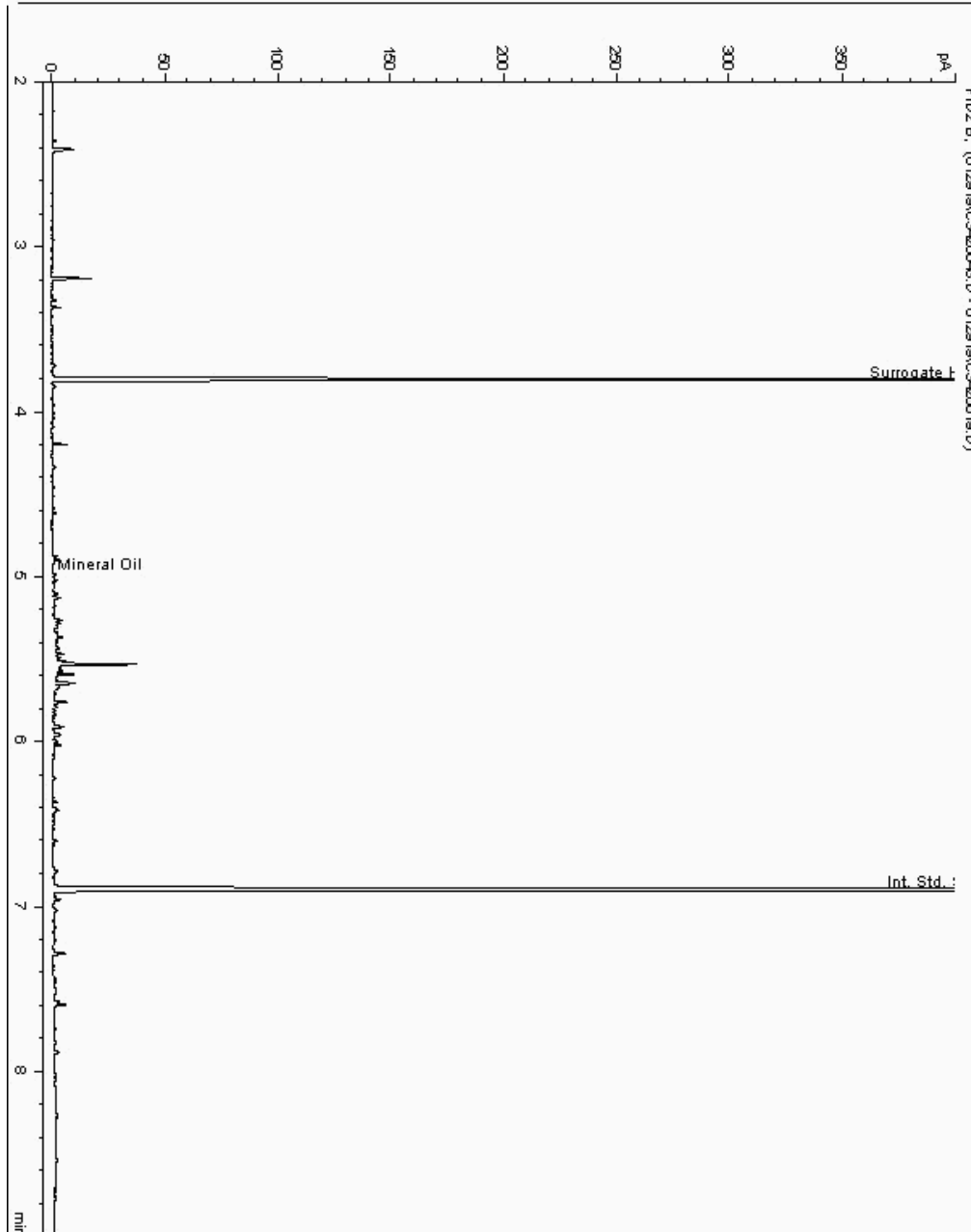
Analysis: Mineral Oil
19208974

Sample No :
Sample ID : BH237

19,208,974 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040983-
Date Acquired : 30/01/19 02:23:08 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

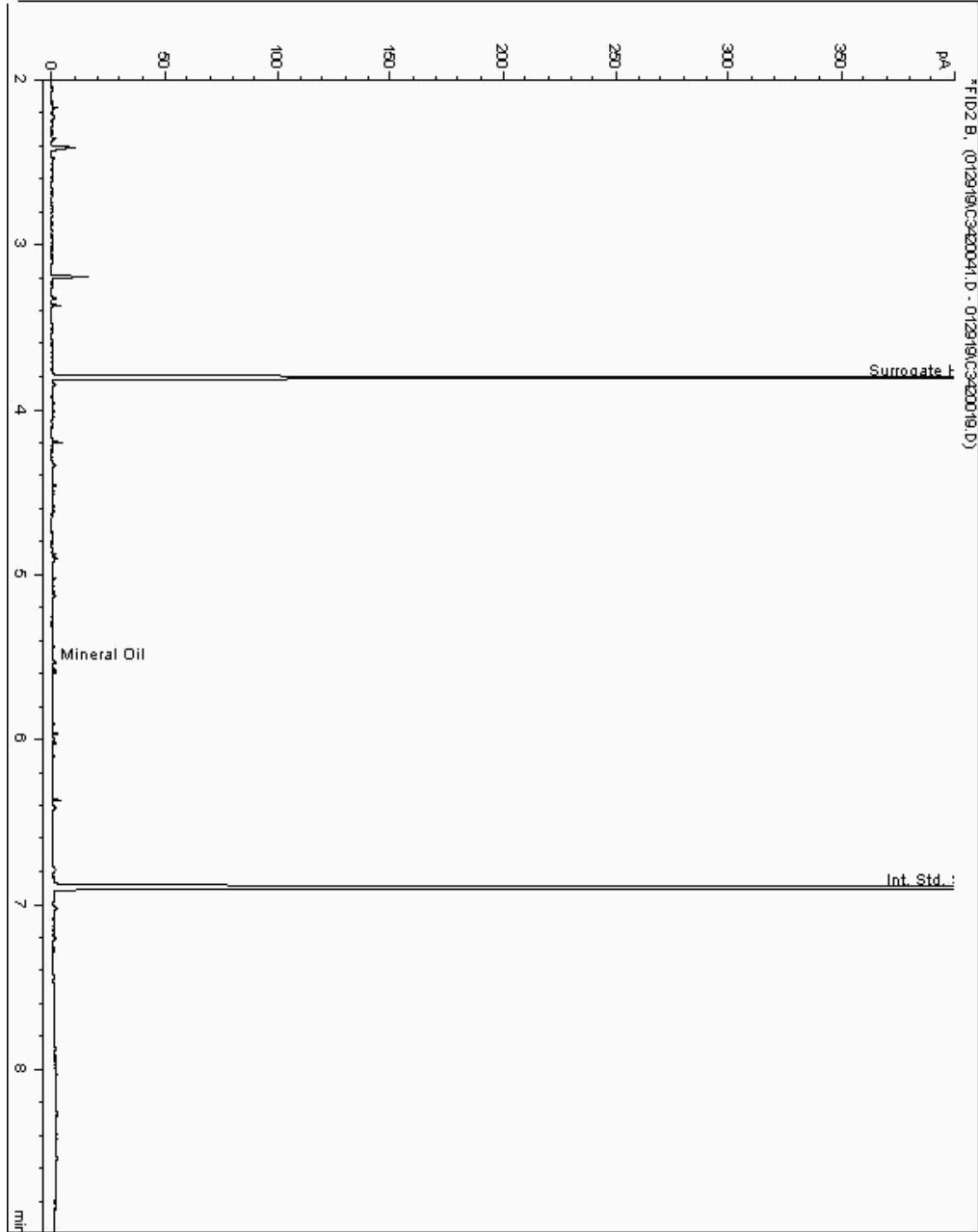
Analysis: Mineral Oil
19208975

Sample No :
Sample ID : BH237

19,208,975 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041216-
Date Acquired : 30/01/19 01:42:31 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

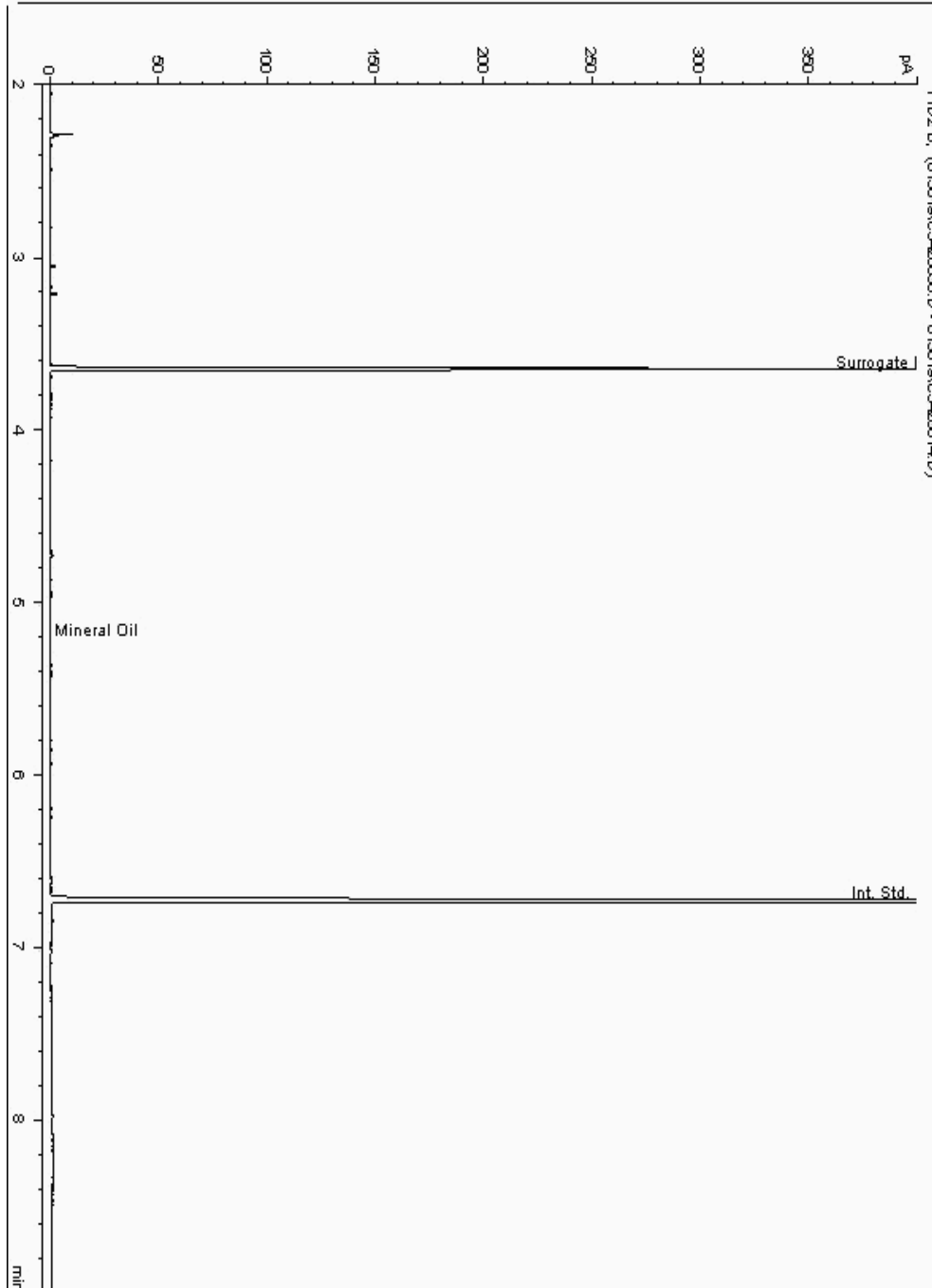
Analysis: Mineral Oil
19209036

Sample No :
Sample ID : BH230

19,209,036Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040064-
Date Acquired : 30/01/2019 16:31:12 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

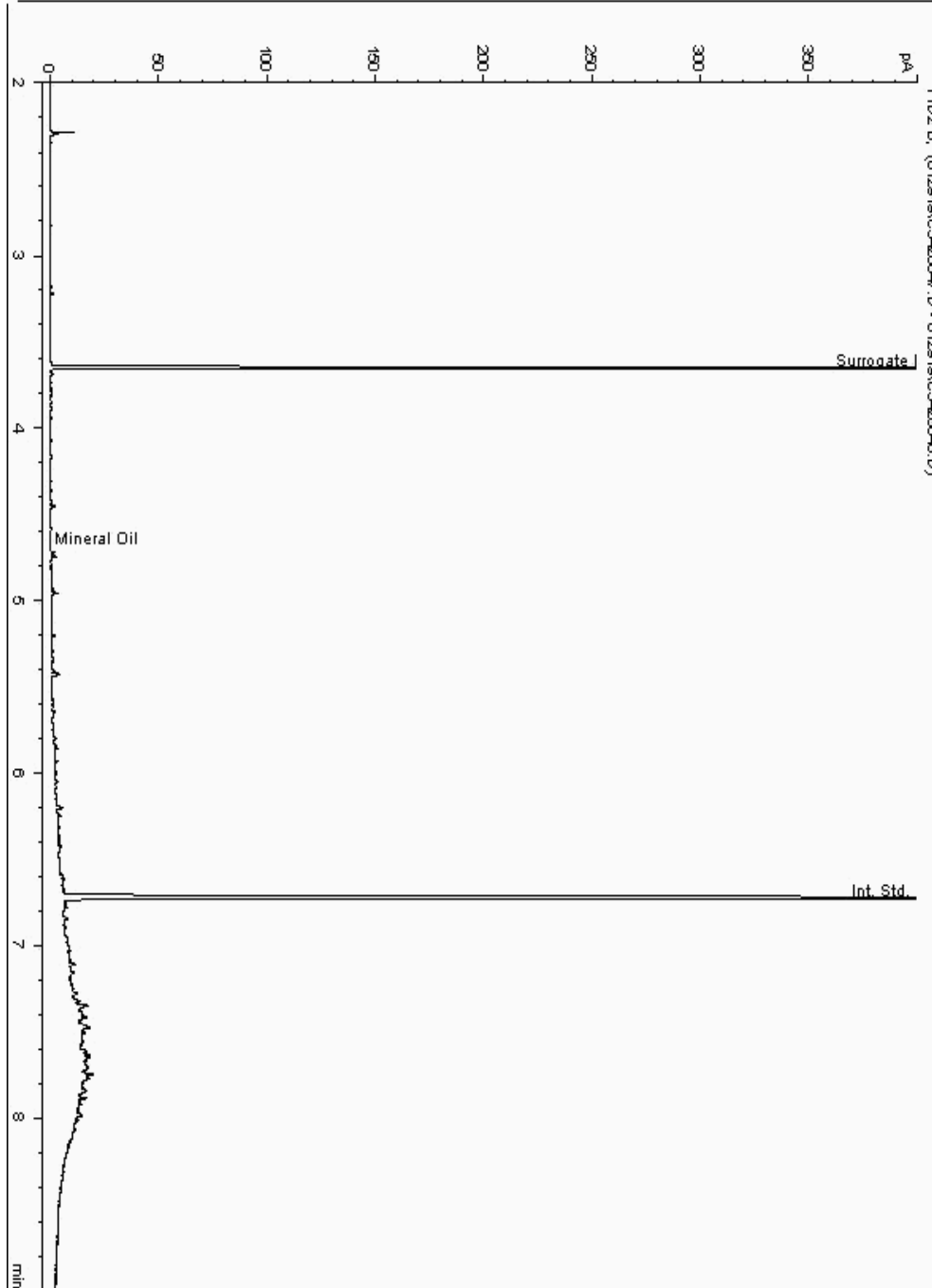
Analysis: Mineral Oil
19209235

Sample No :
Sample ID : BH236

19,209,235 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040598-
Date Acquired : 29/01/2019 21:59:10 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

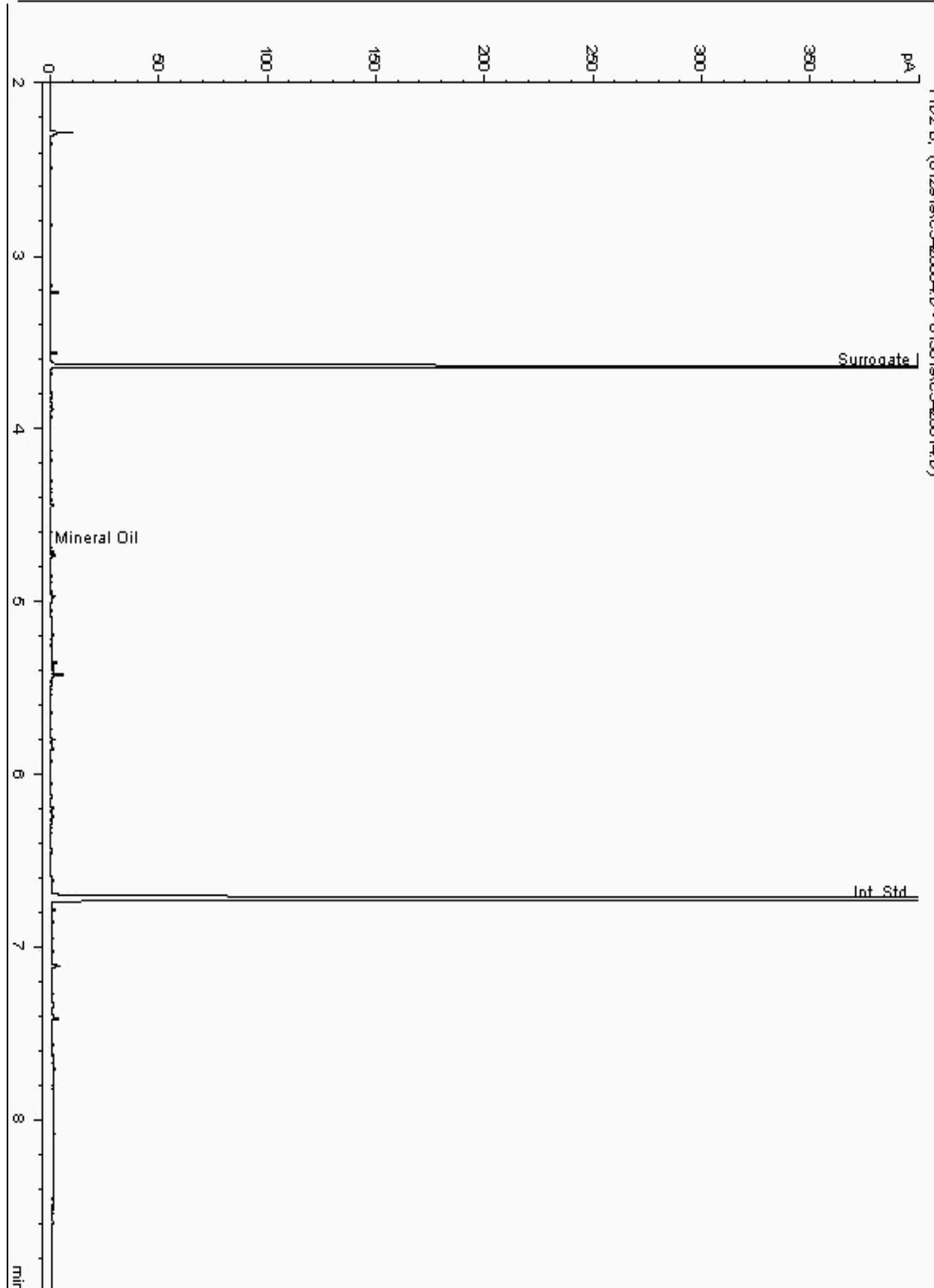
Analysis: Mineral Oil
19209264

Sample No :
Sample ID : BH236

19,209,264Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040644-
Date Acquired : 30/01/2019 03:30:37 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

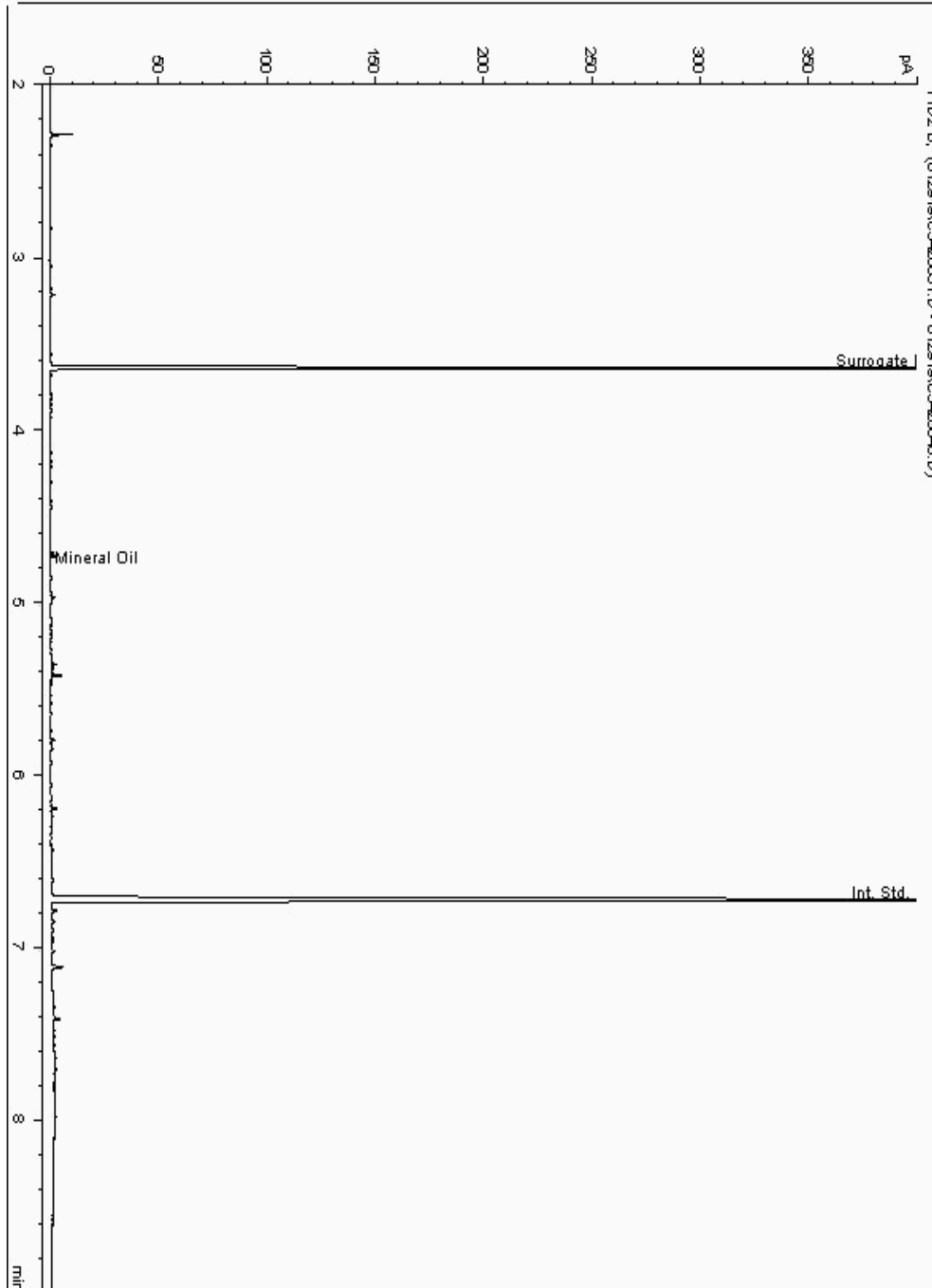
Analysis: Mineral Oil
19209302

Sample No :
Sample ID : BH237

19,209,302Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040913-
Date Acquired : 29/01/2019 23:15:31 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

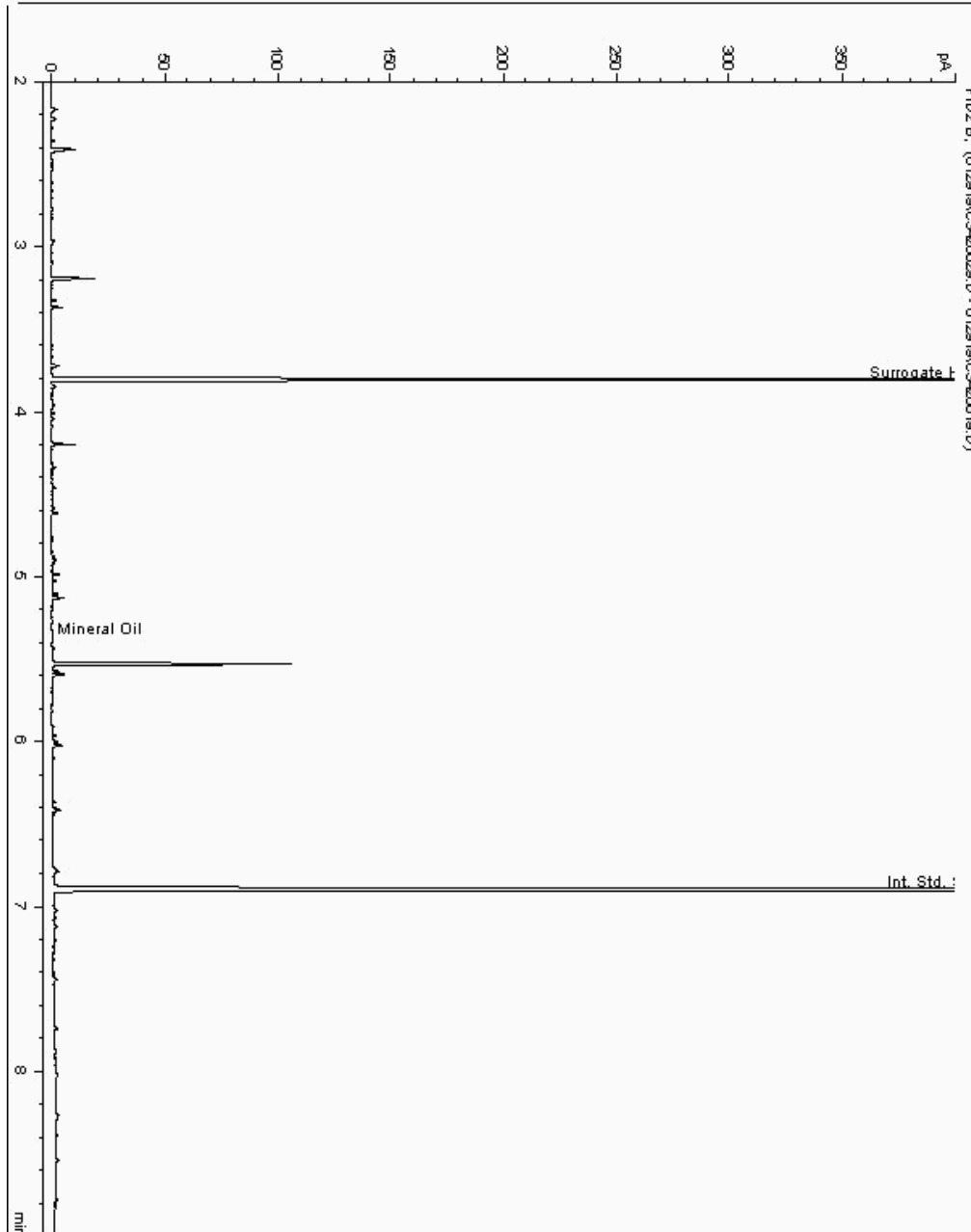
Analysis: Mineral Oil
19209396

Sample No :
Sample ID : BH231

19,209,396Depth :9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040446-
Date Acquired : 29/01/19 22:19:02 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

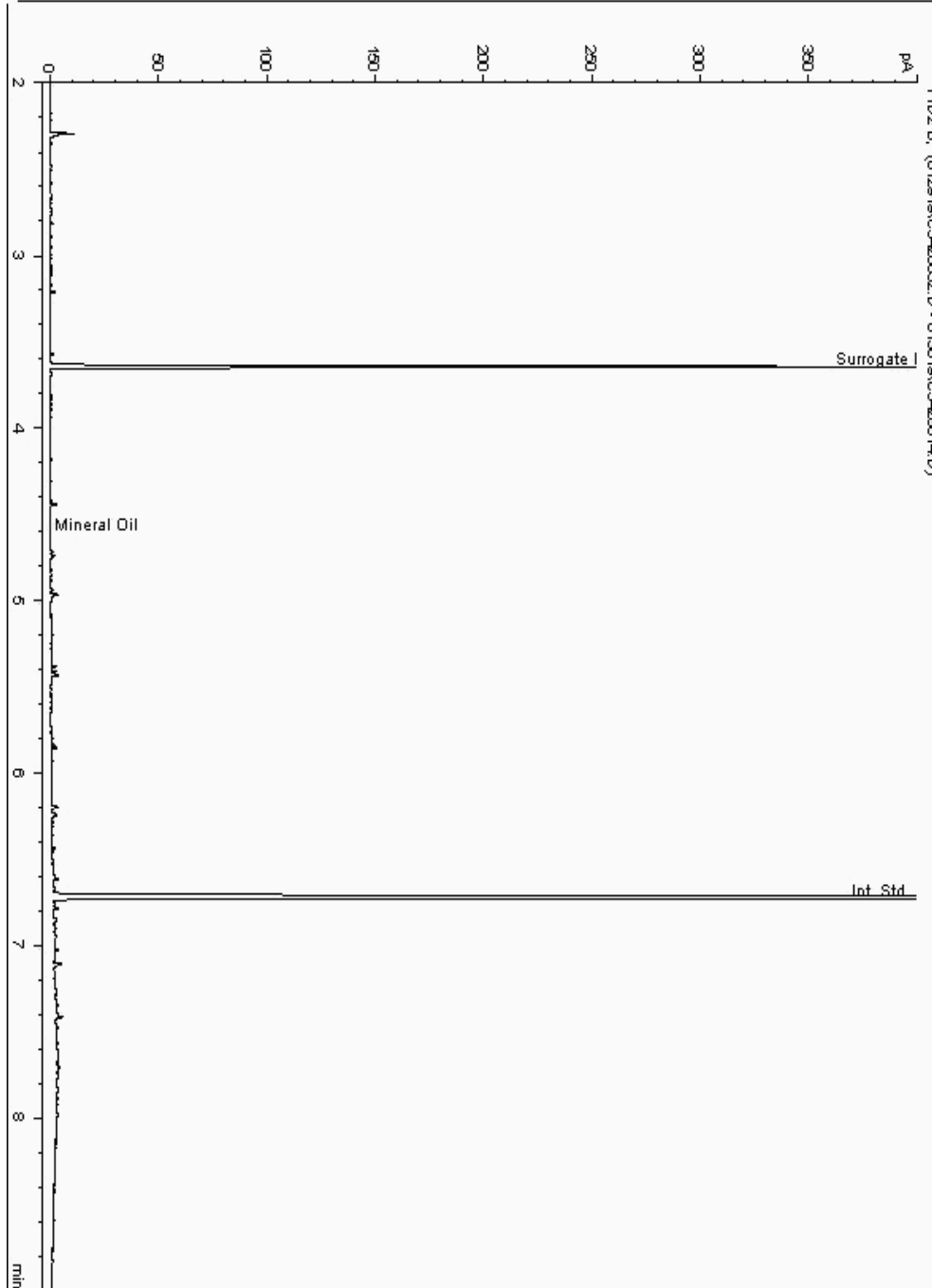
Analysis: Mineral Oil
19211035

Sample No :
Sample ID : BH231

19,211,035Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040274-
Date Acquired : 29/01/2019 23:36:30 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

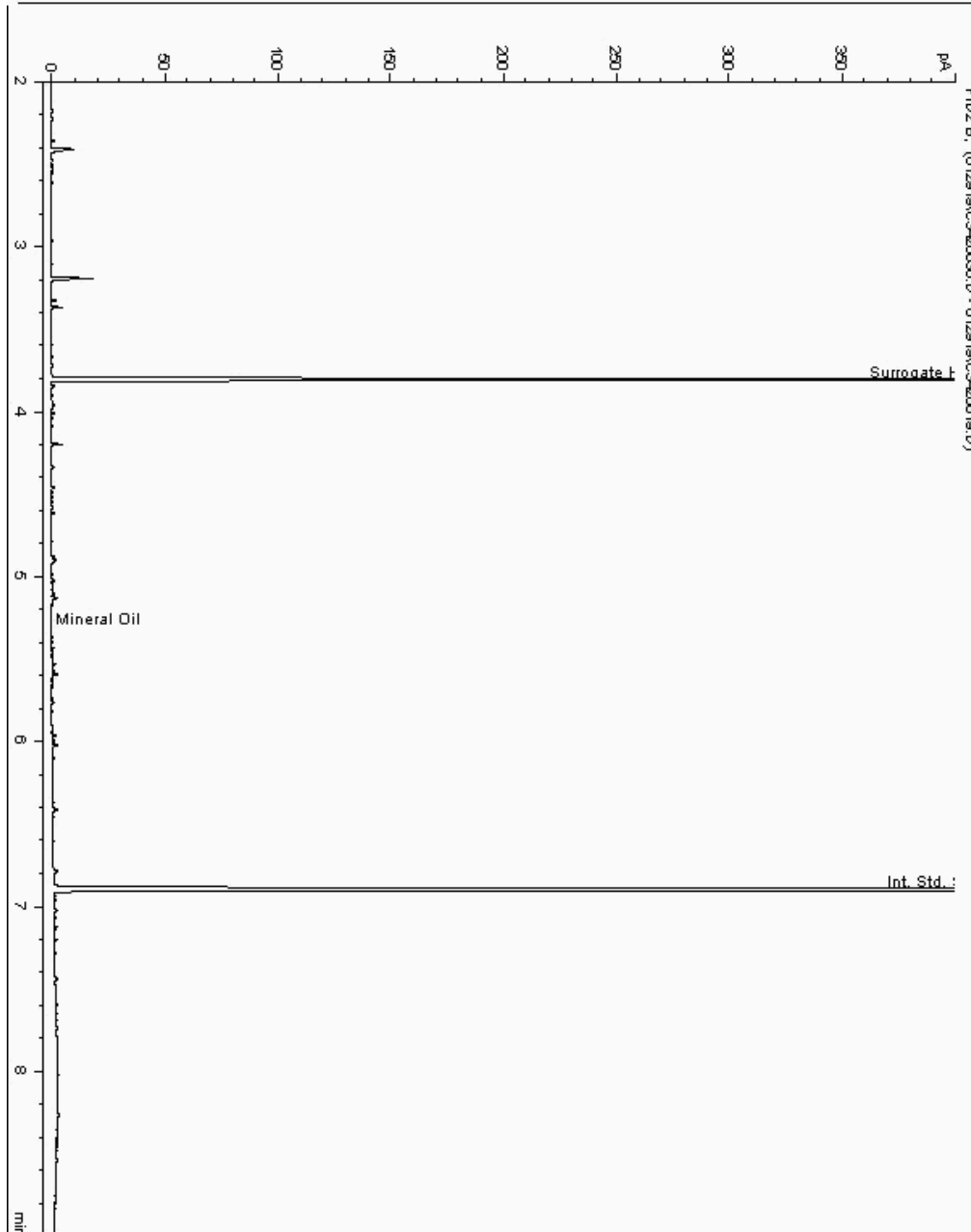
Analysis: Mineral Oil
19211063

Sample No :
Sample ID : BH238

19,211,063Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041433-
Date Acquired : 29/01/19 22:39:33 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

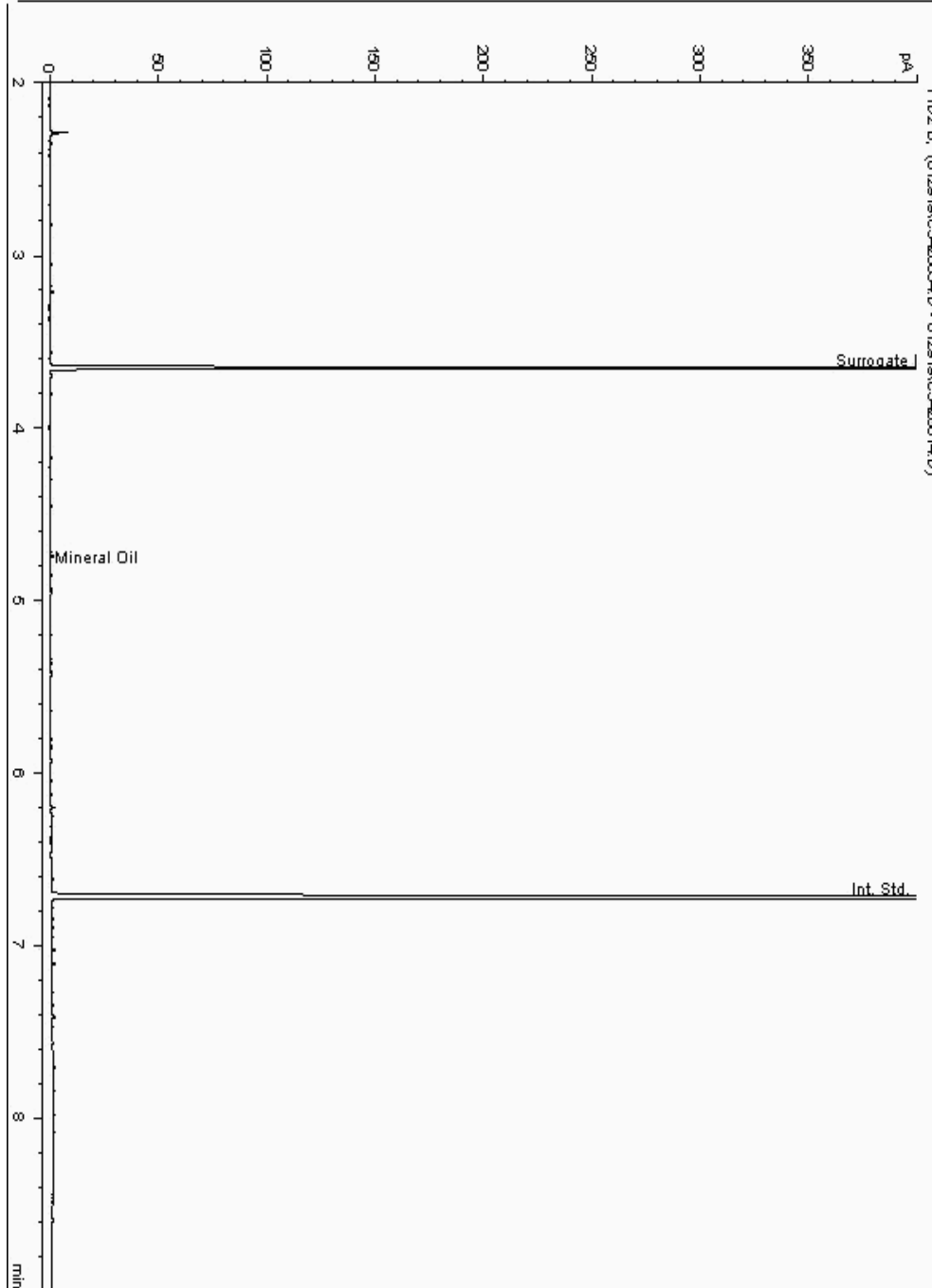
Analysis: Mineral Oil
19211071

Sample No :
Sample ID : BH231

19,211,071 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040348-
Date Acquired : 29/01/2019 17:41:17 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

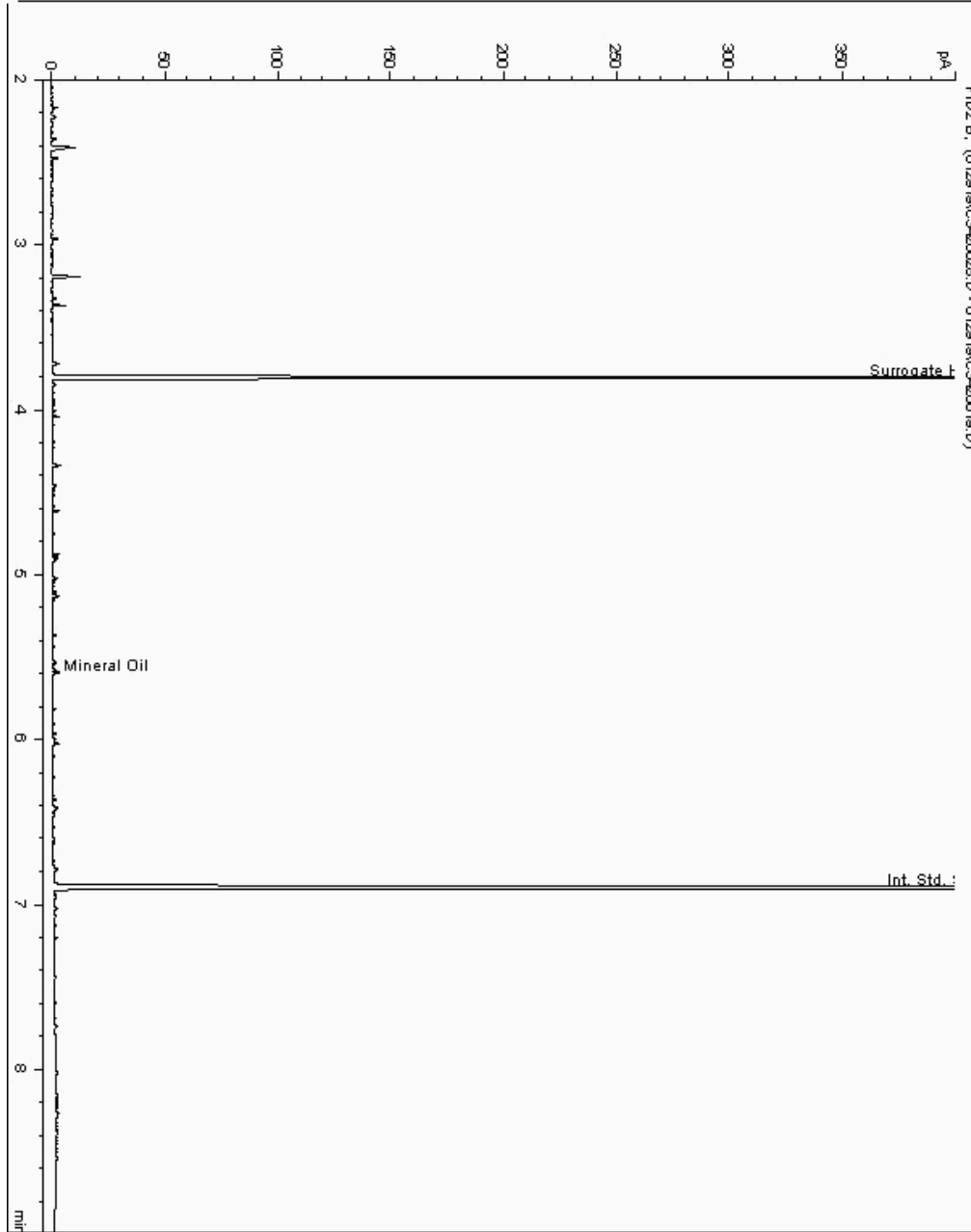
Analysis: Mineral Oil
19211117

Sample No :
Sample ID : BH236

19,211,117Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040819-
Date Acquired : 29/01/19 21:58:43 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

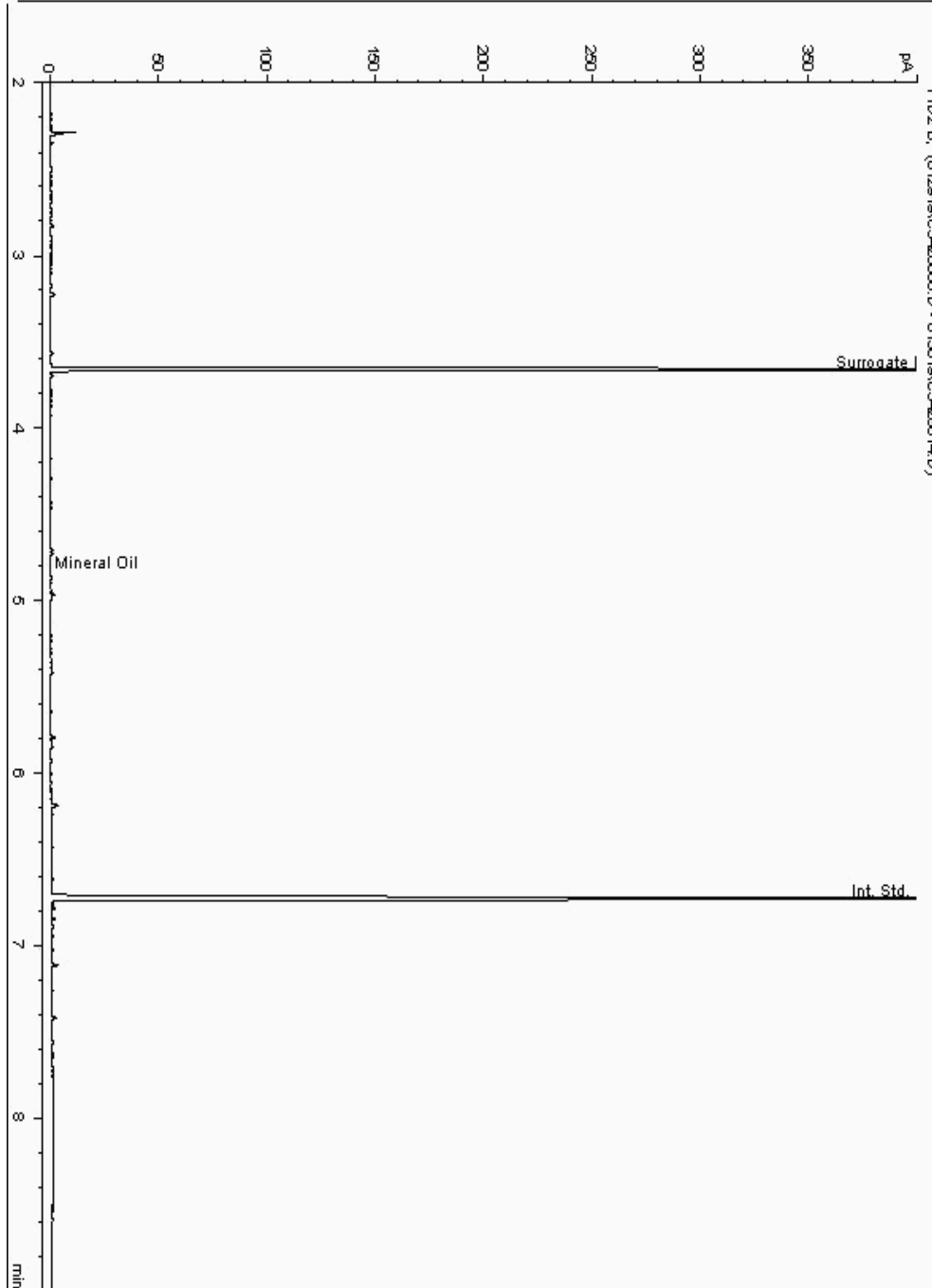
Analysis: Mineral Oil
19211149

Sample No :
Sample ID : BH231

19,211,149Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040405-
Date Acquired : 30/01/2019 04:04:10 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

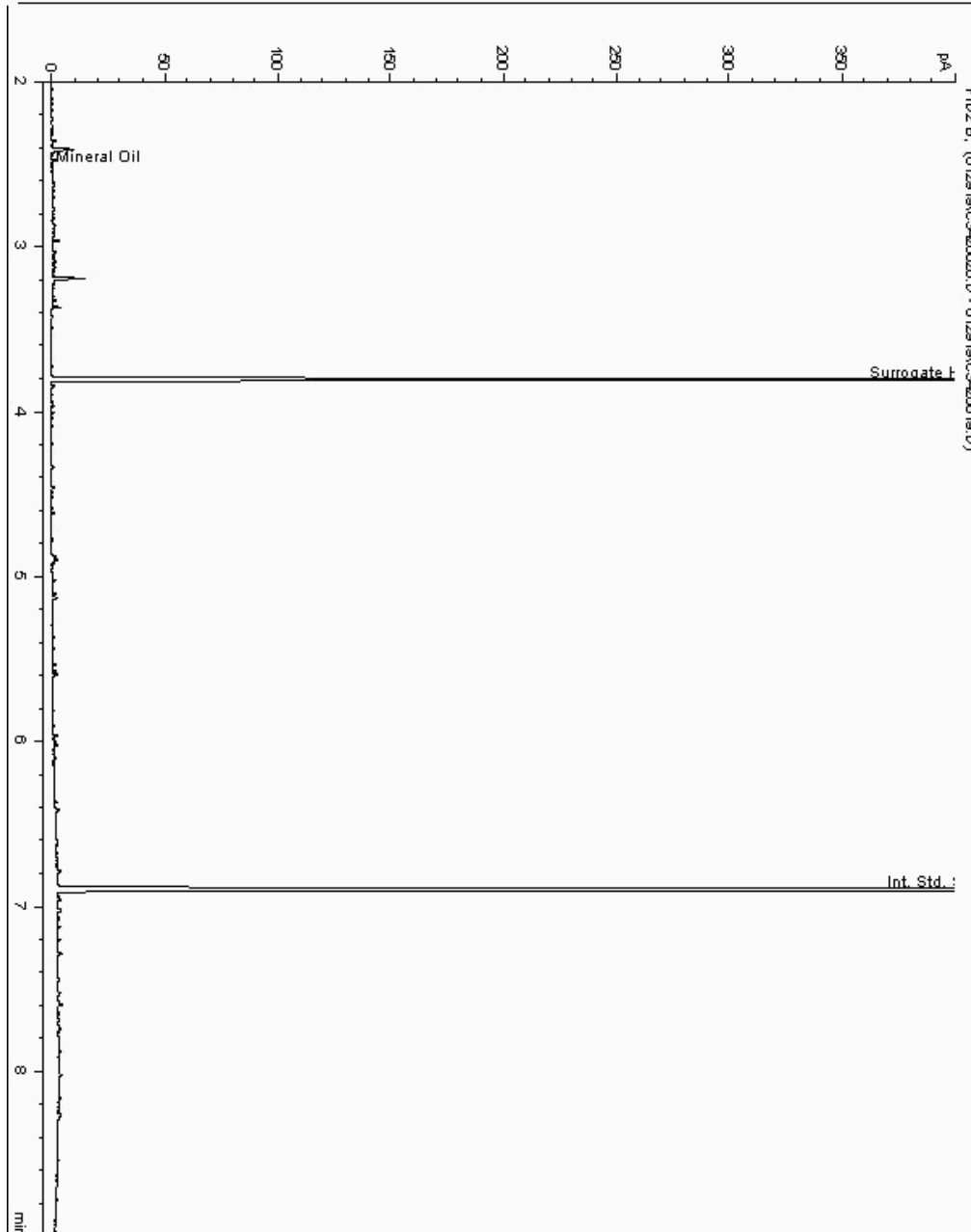
Analysis: Mineral Oil
19211308

Sample No :
Sample ID : BH231

19,211,308 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040379-
Date Acquired : 29/01/19 21:26:25 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

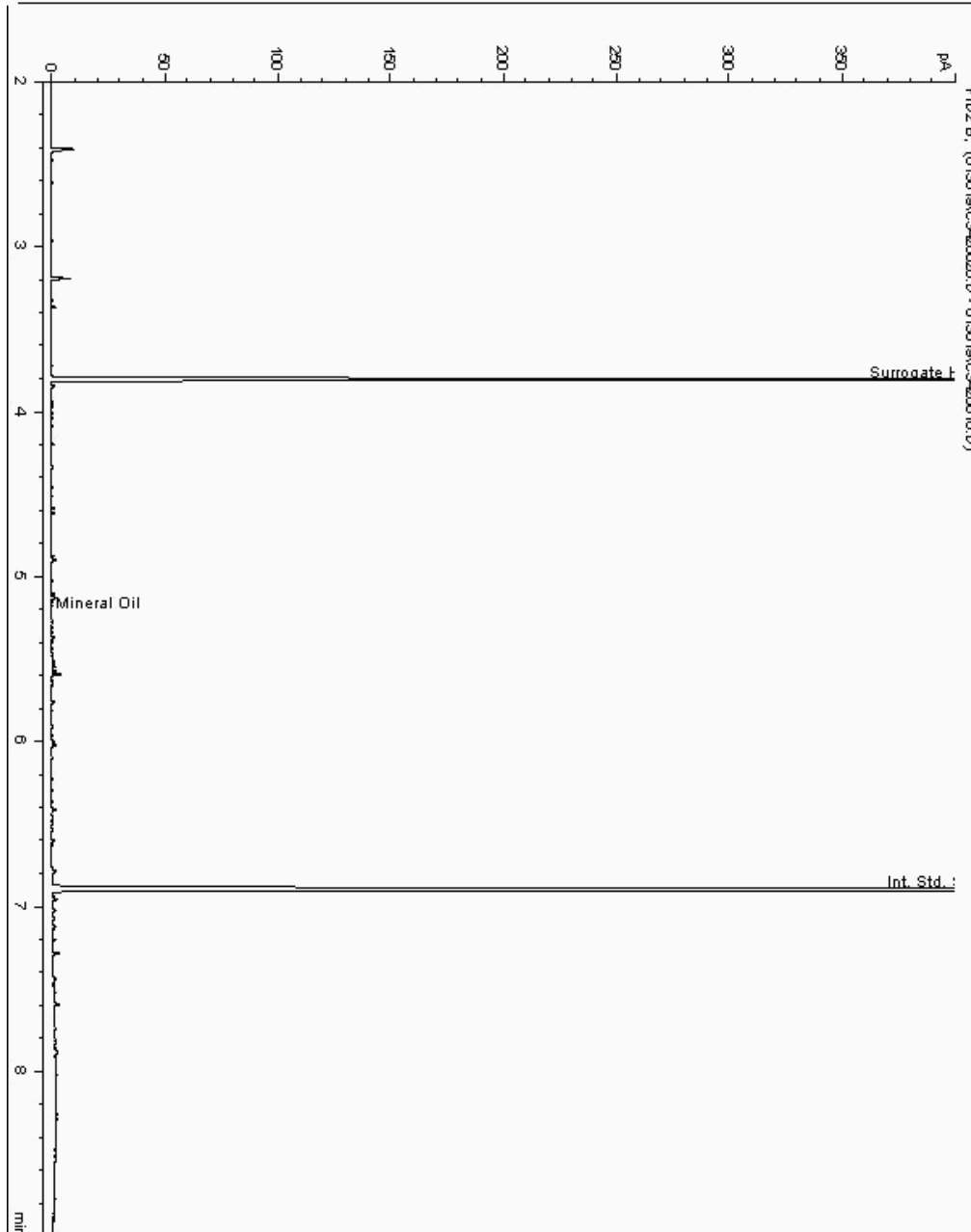
Analysis: Mineral Oil
19211587

Sample No :
Sample ID : BH236

19,211,587Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040694-
Date Acquired : 30/01/19 14:42:22 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

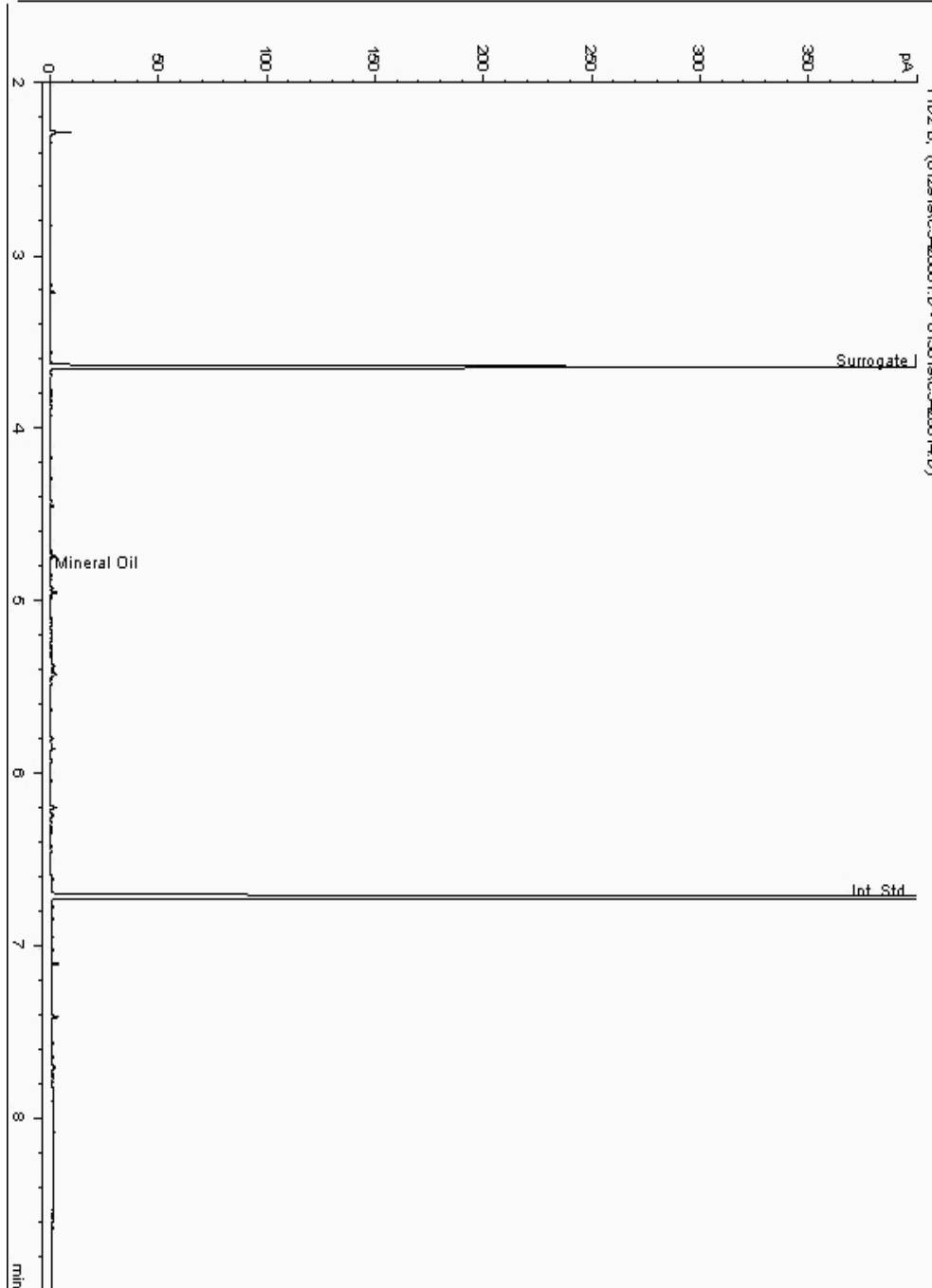
Analysis: Mineral Oil
19211643

Sample No :
Sample ID : BH236

19,211,643Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040667-
Date Acquired : 30/01/2019 02:28:08 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

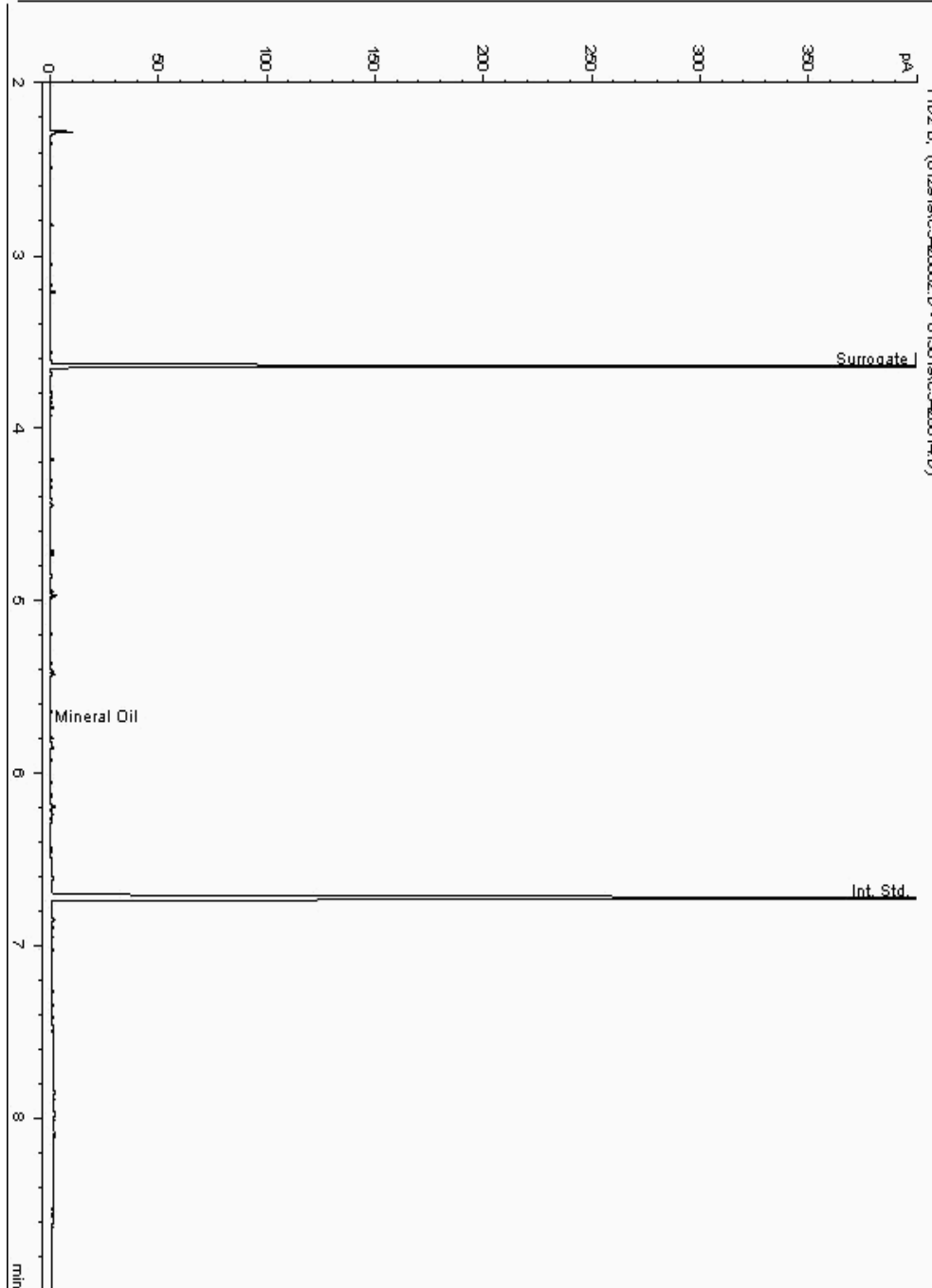
Analysis: Mineral Oil
19211690

Sample No :
Sample ID : BH237

19,211,690Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041244-
Date Acquired : 30/01/2019 02:49:11 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

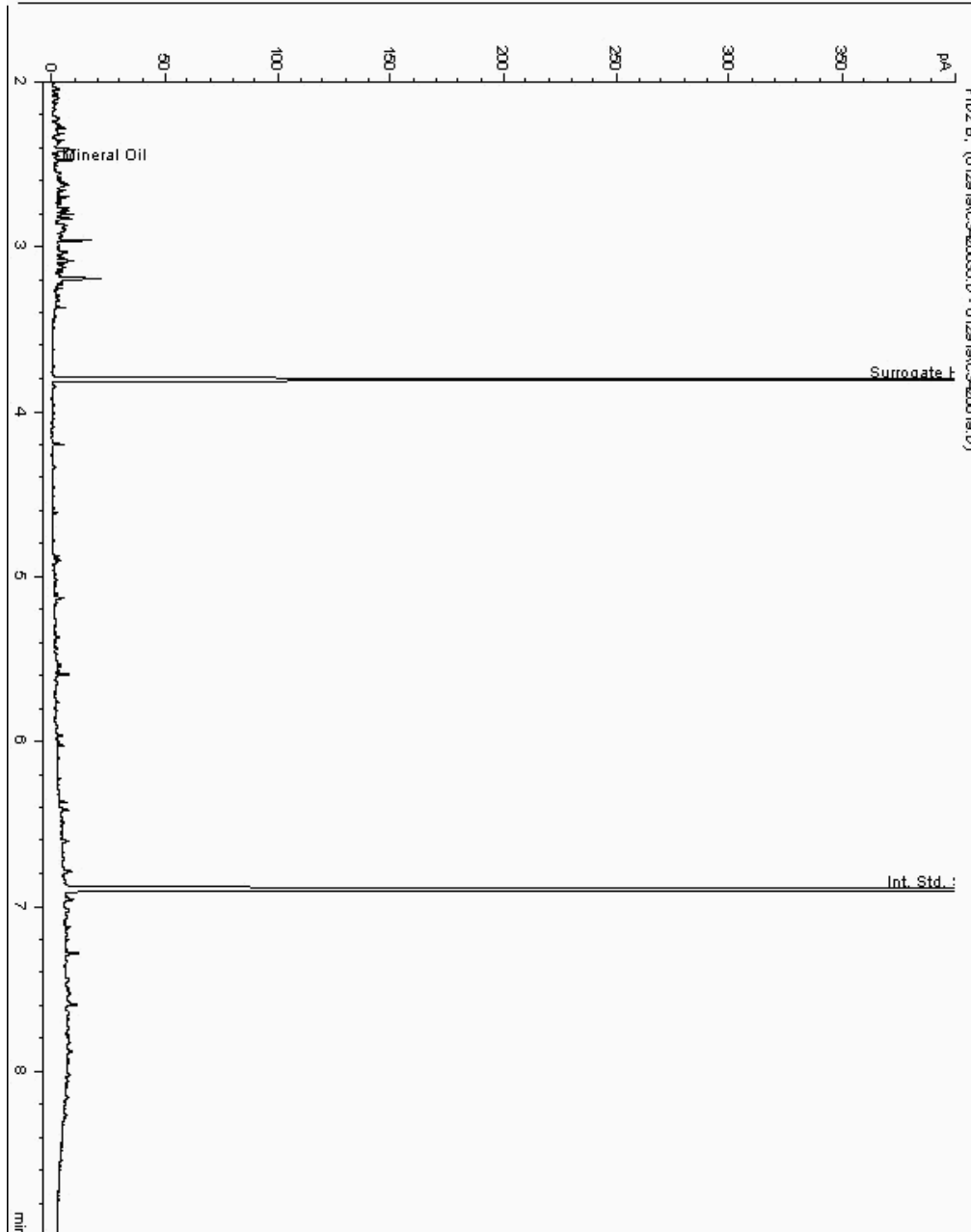
Analysis: Mineral Oil
19211743

Sample No :
Sample ID : BH231

19,211,743 Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040300-
Date Acquired : 30/01/19 00:04:57 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

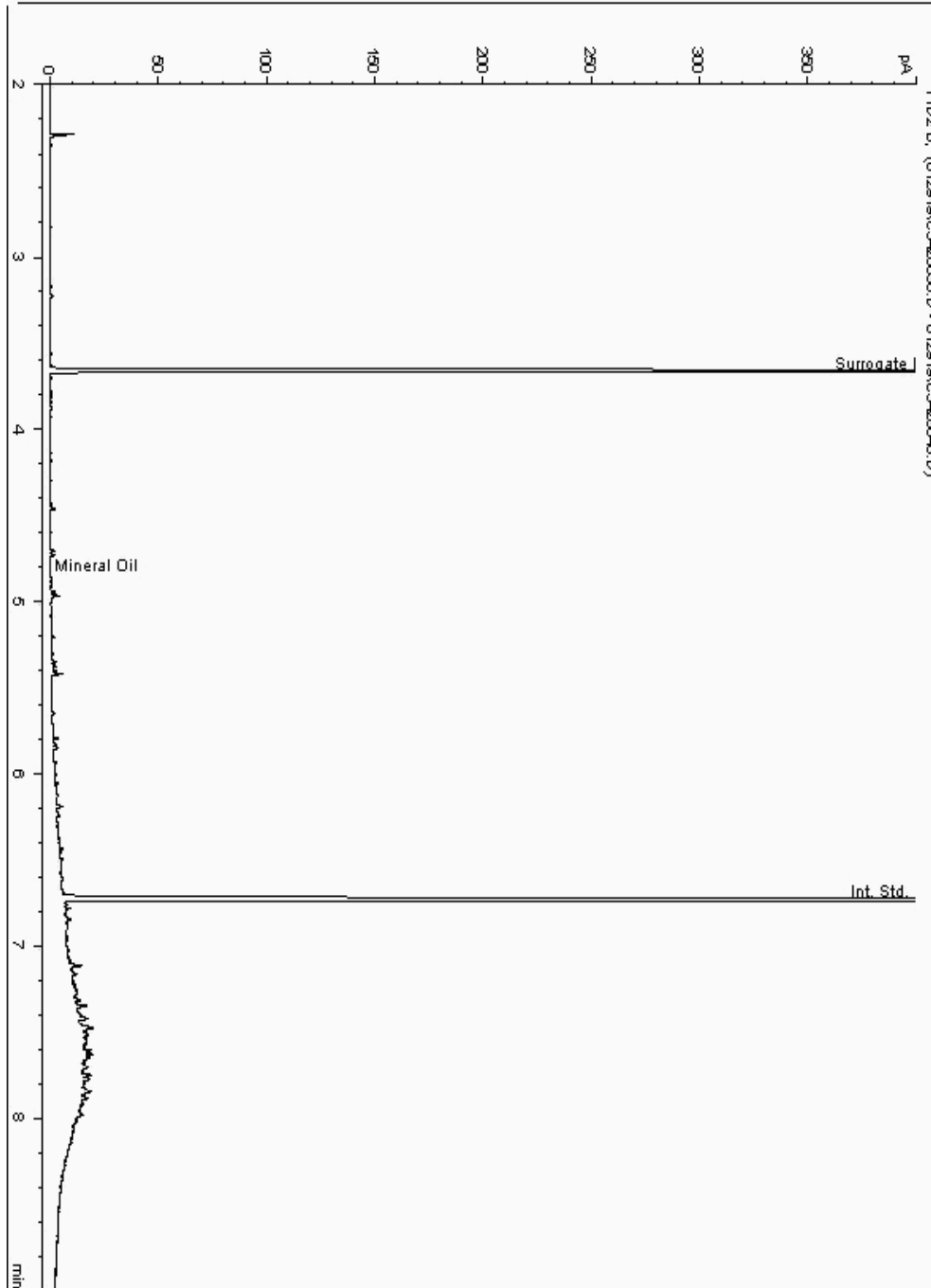
Analysis: Mineral Oil
19211762

Sample No :
Sample ID : BH238

19,211,762Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041387-
Date Acquired : 29/01/2019 22:54:20 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

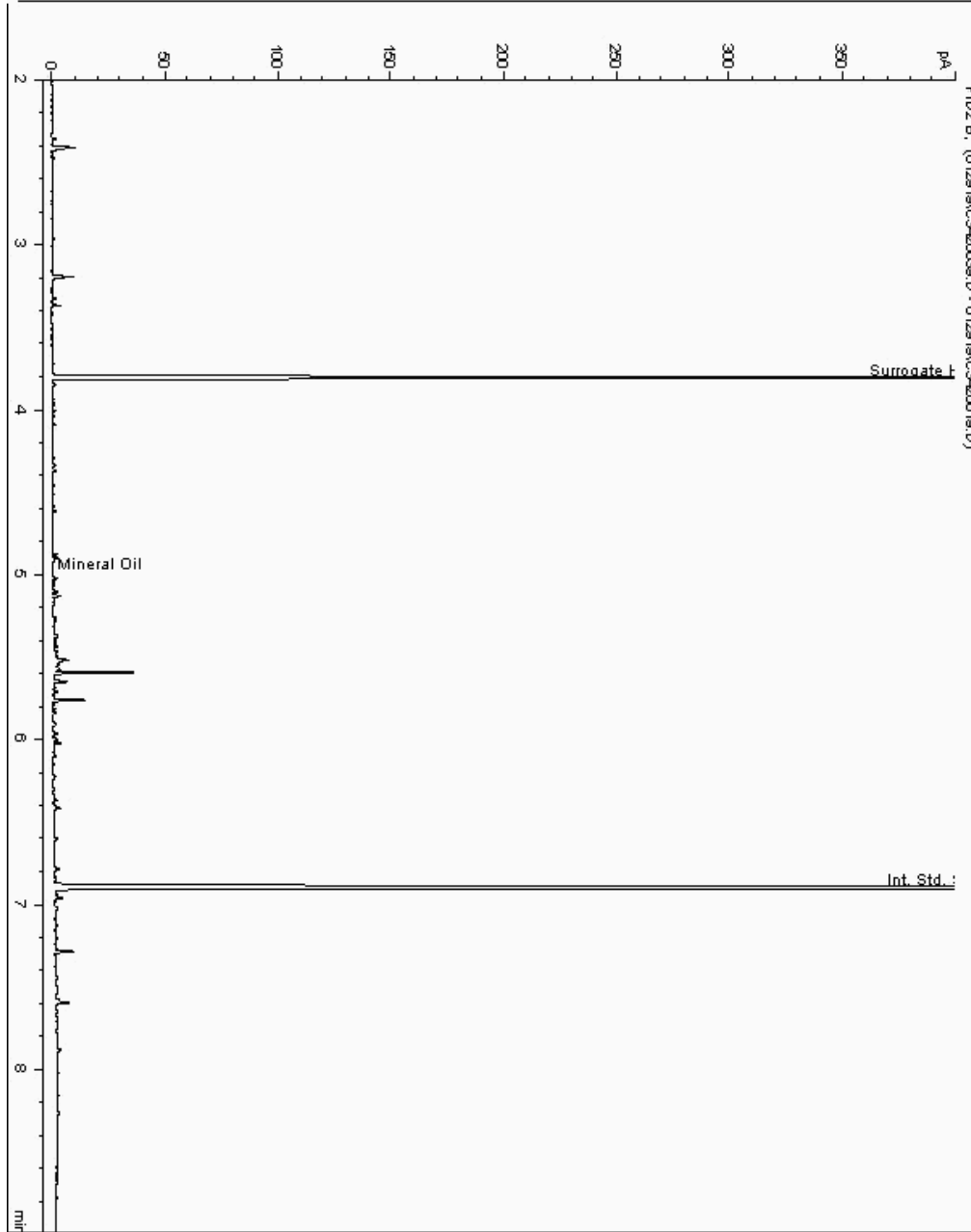
Analysis: Mineral Oil
19211777

Sample No :
Sample ID : BH238

19,211,777Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041342-
Date Acquired : 30/01/19 01:10:08 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

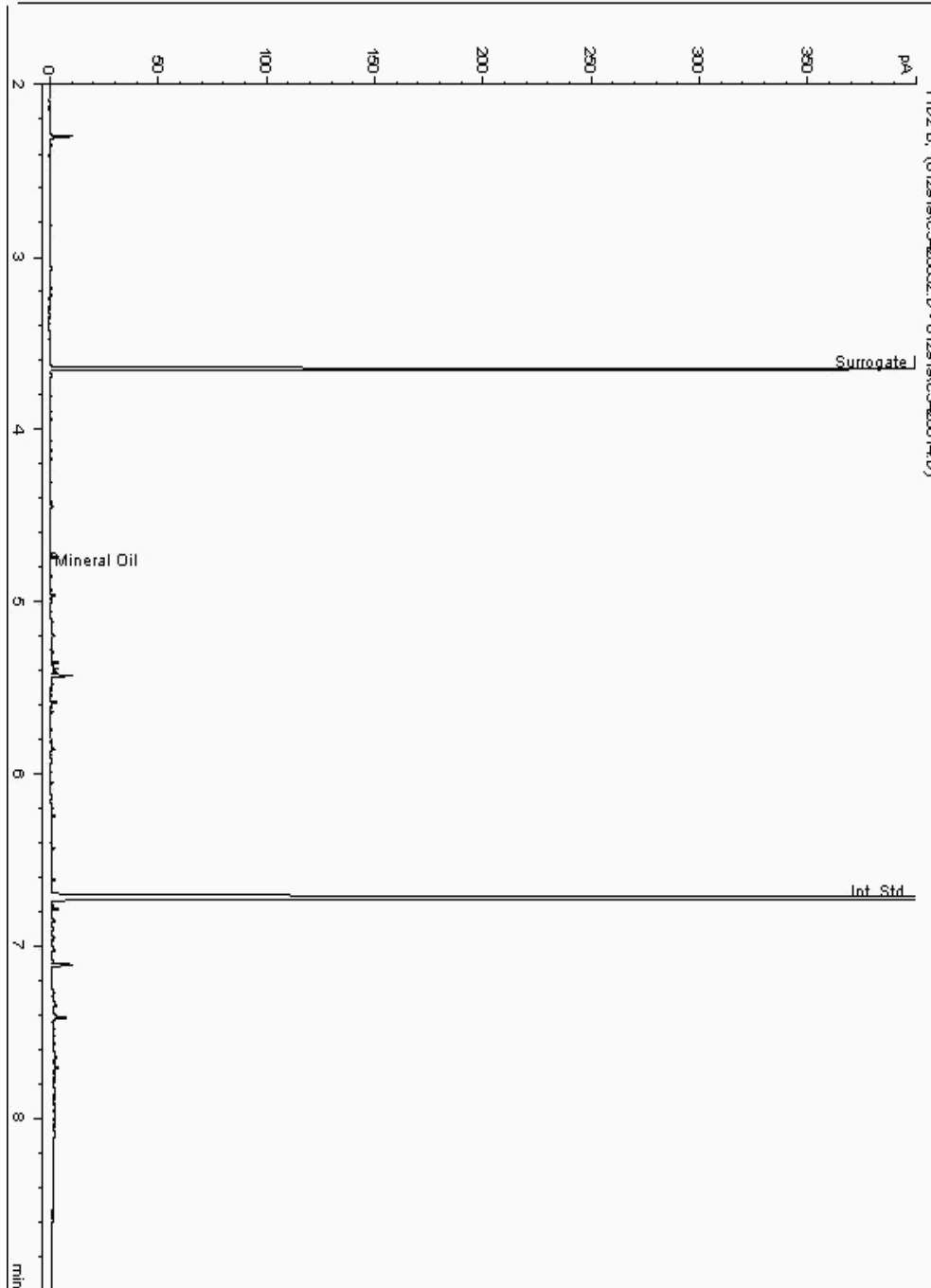
Analysis: Mineral Oil
19211784

Sample No :
Sample ID : BH238

19,211,784Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041365-
Date Acquired : 29/01/2019 17:06:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

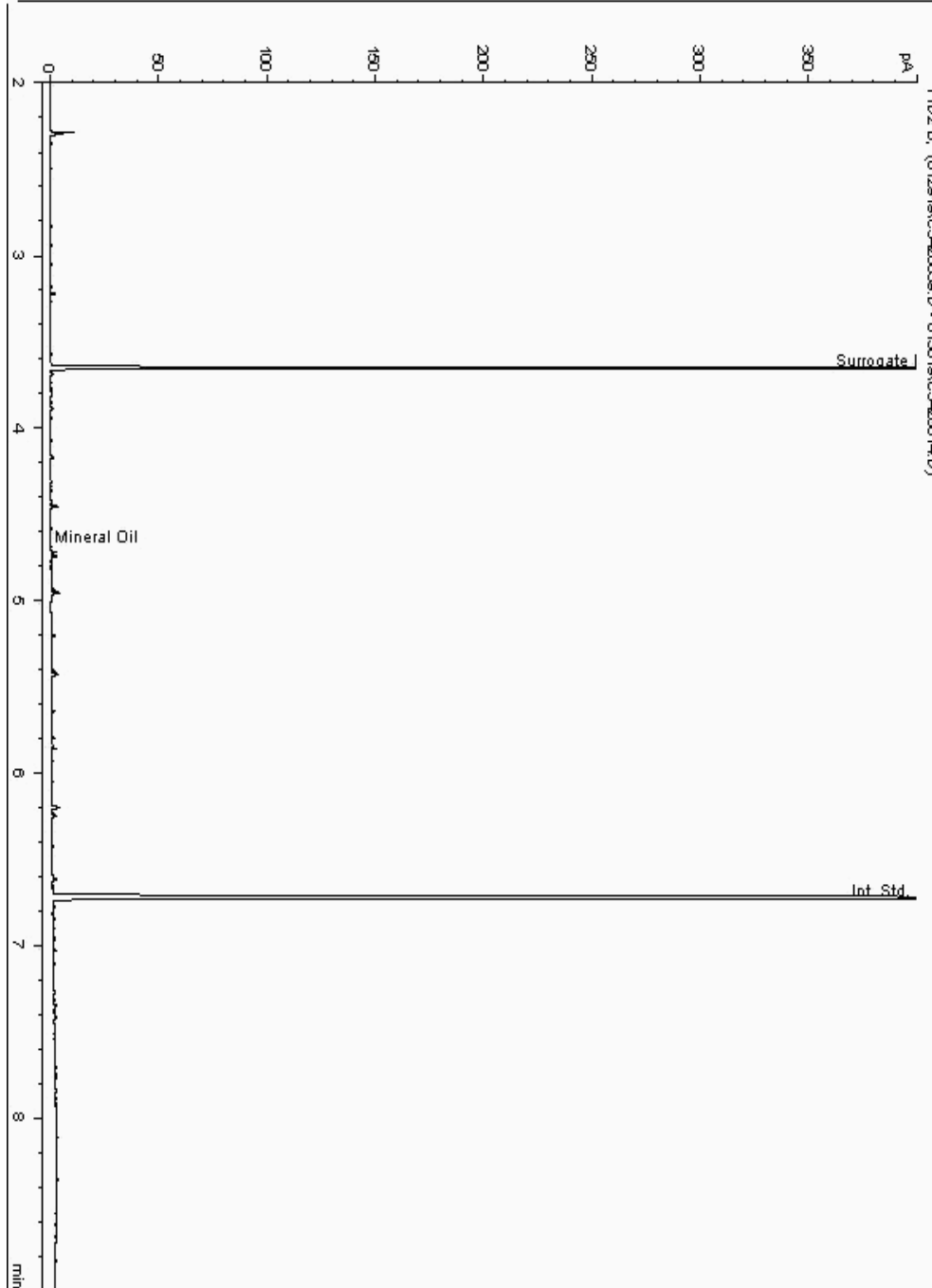
Analysis: Mineral Oil
19211802

Sample No :
Sample ID : BH231

19,211,802Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040222-
Date Acquired : 30/01/2019 01:54:31 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

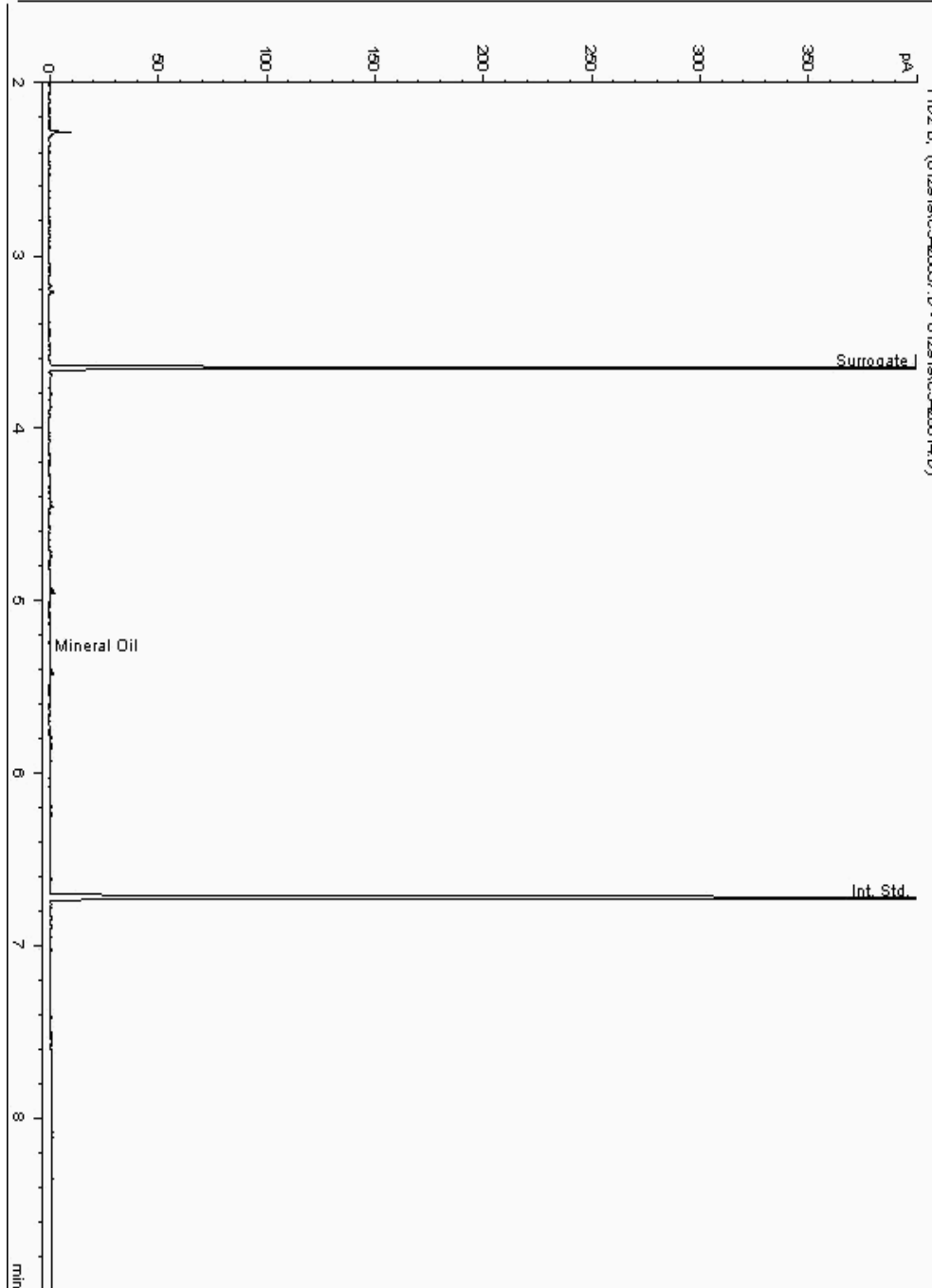
Analysis: Mineral Oil
19212082

Sample No :
Sample ID : BH236

19,212,082Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040722-
Date Acquired : 29/01/2019 18:36:19 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

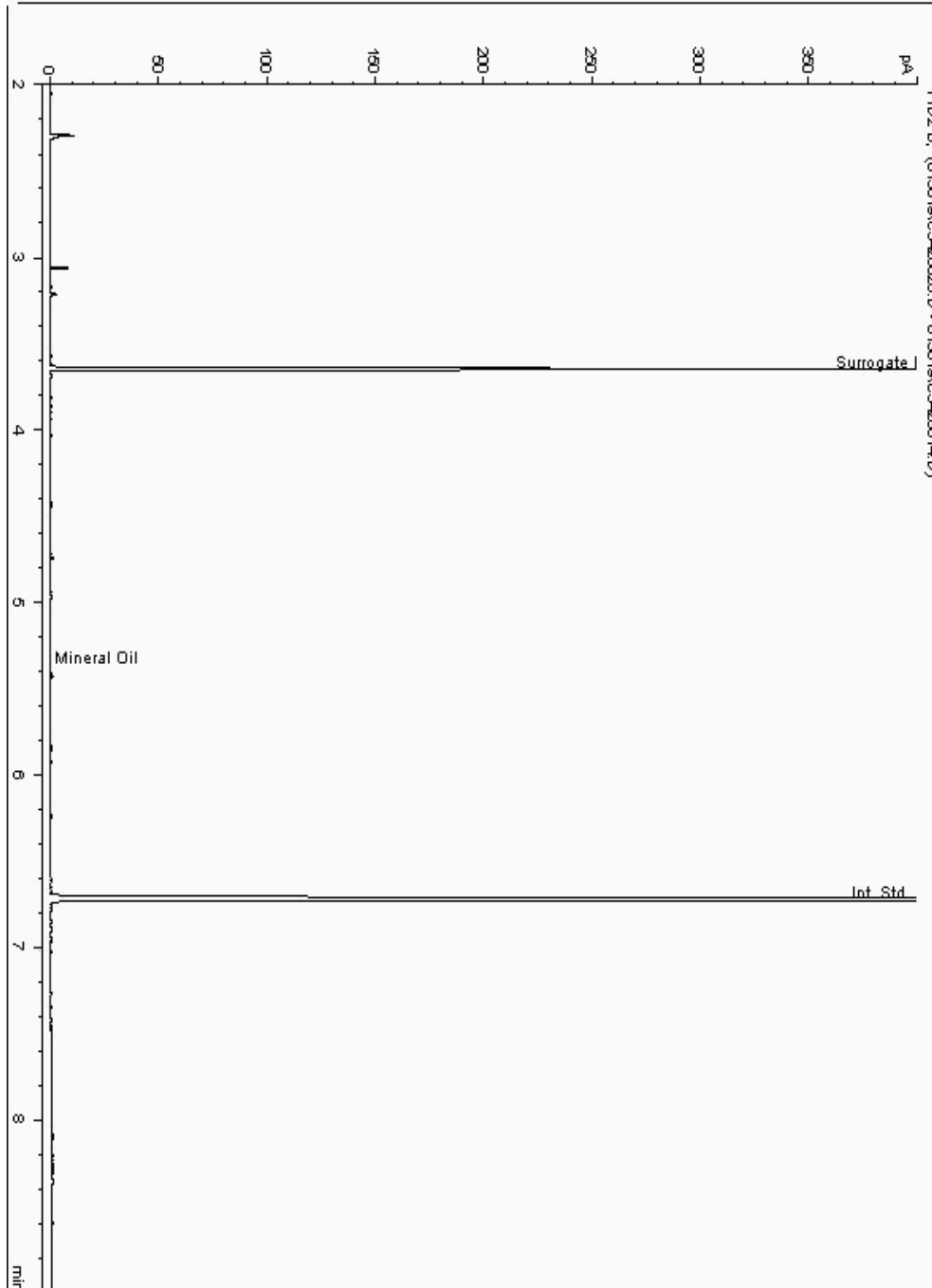
Analysis: Mineral Oil
19212100

Sample No :
Sample ID : BH236

19,212,100Depth :9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040746-
Date Acquired : 30/01/2019 15:07:20 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

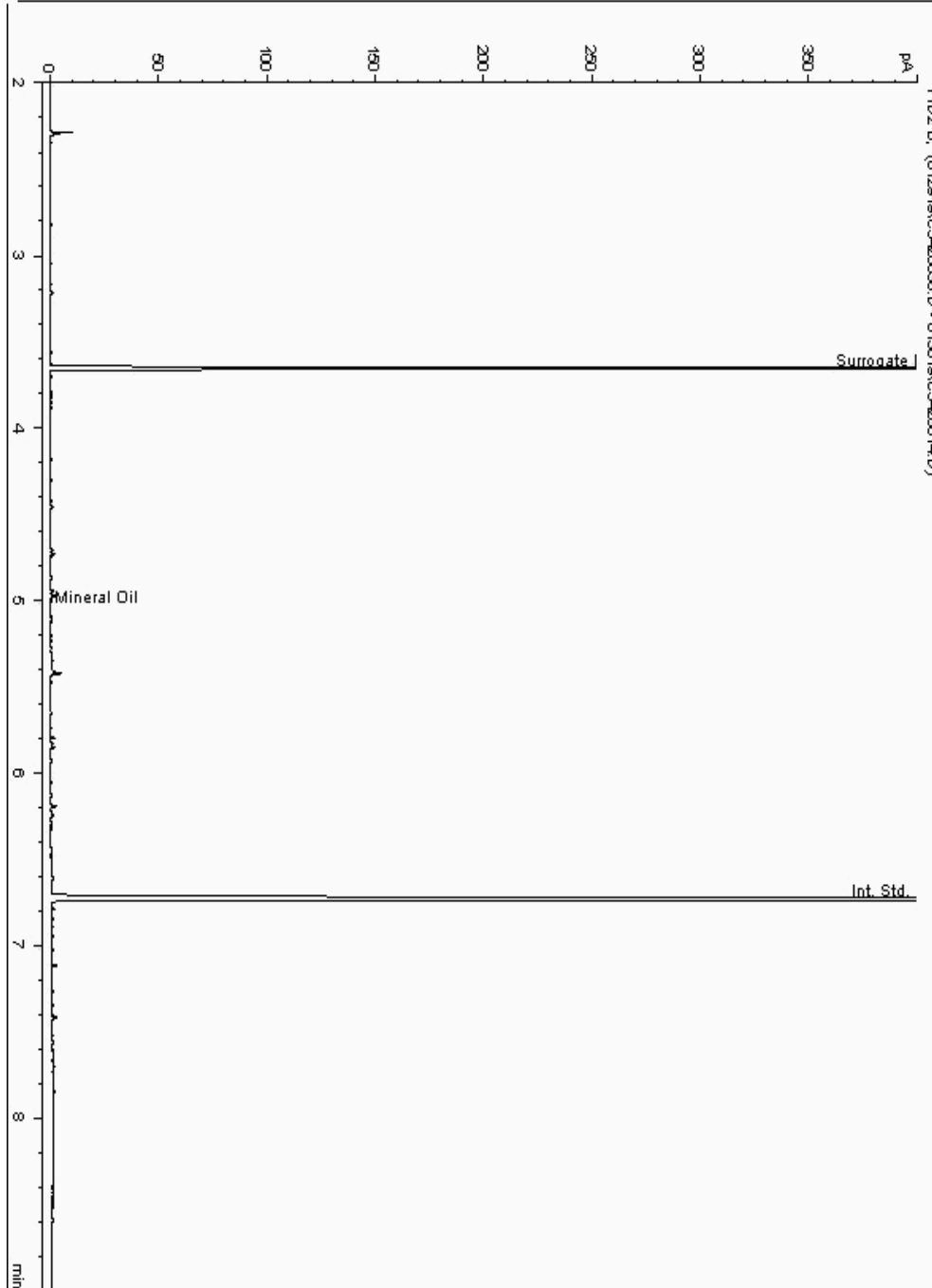
Analysis: Mineral Oil
19212150

Sample No :
Sample ID : BH238

19,212,150 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041319-
Date Acquired : 30/01/2019 01:33:48 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

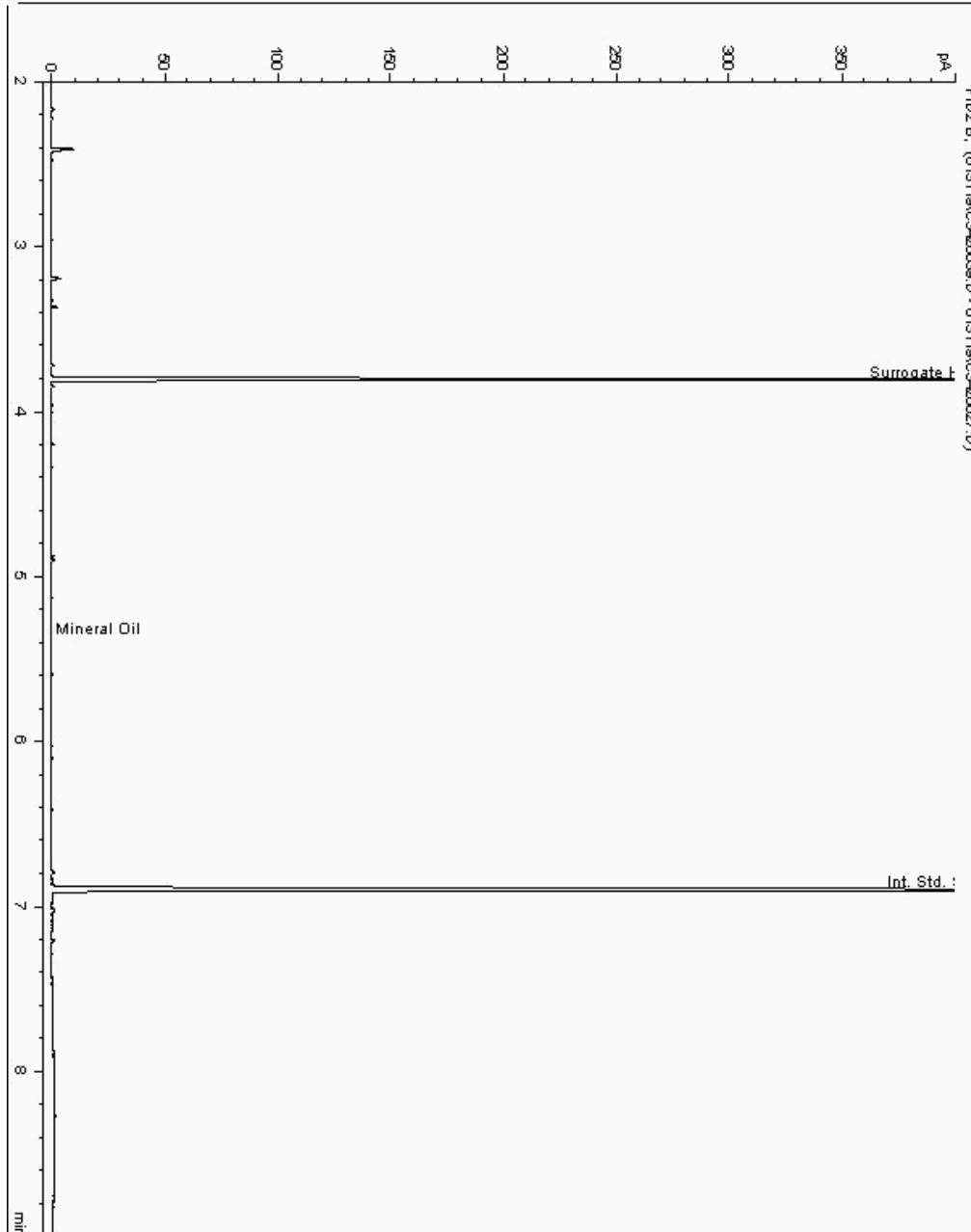
Analysis: Mineral Oil
19224016

Sample No :
Sample ID : BH238

19,224,016 Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041459-
Date Acquired : 31/01/19 19:16:18 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

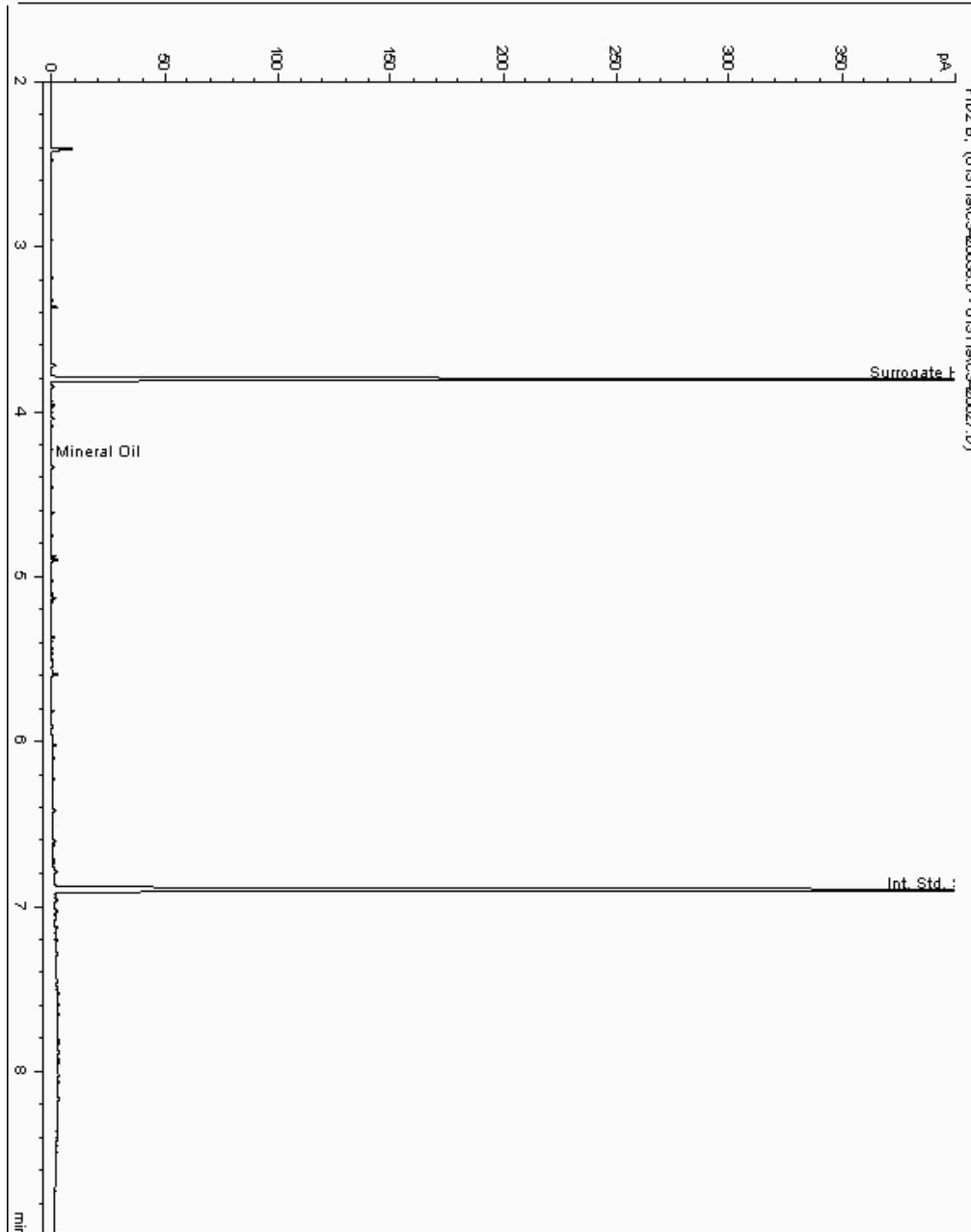
Analysis: Mineral Oil
19224164

Sample No :
Sample ID : BH237

19,224,164Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040844-
Date Acquired : 31/01/19 18:56:14 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

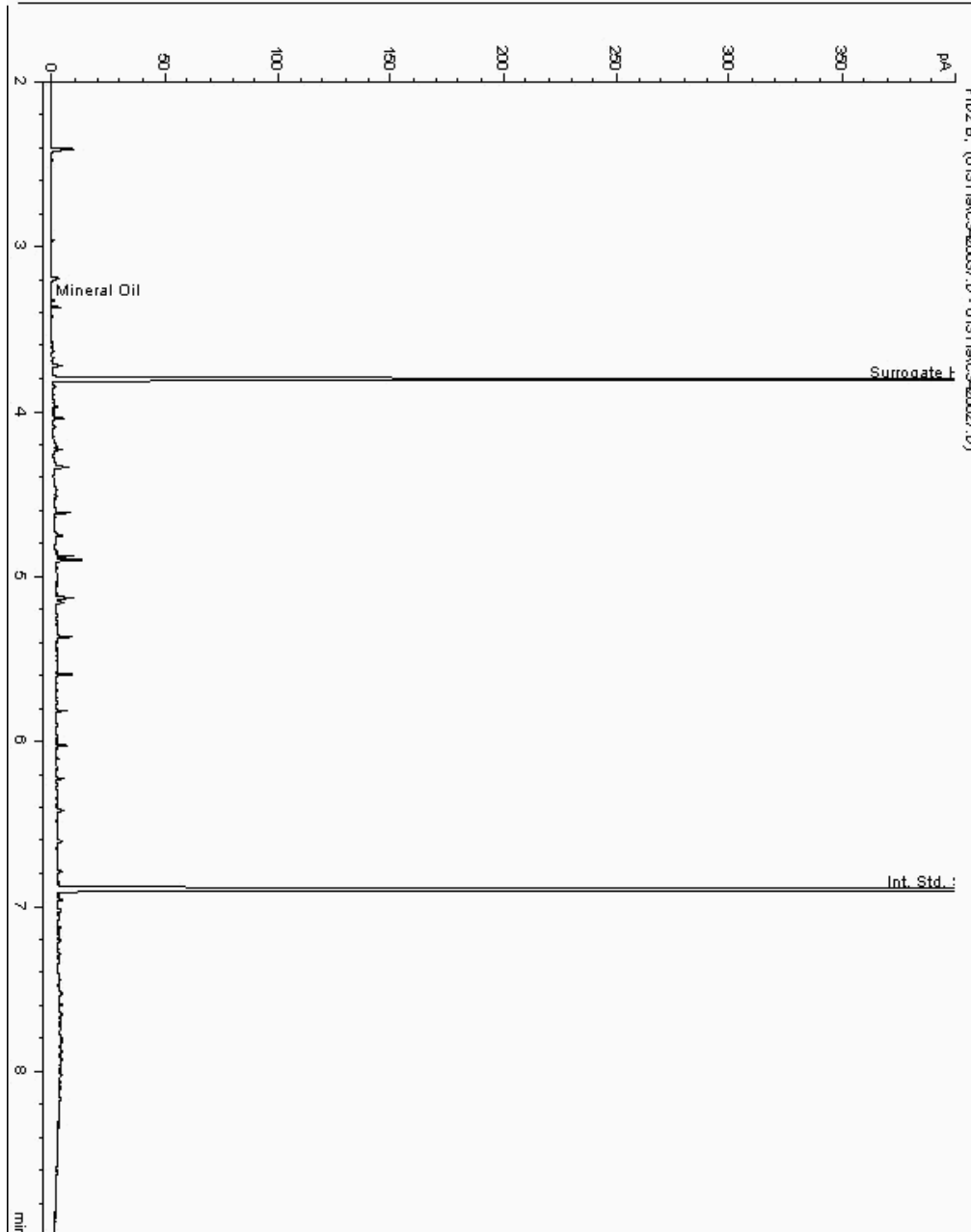
Analysis: Mineral Oil
19224444

Sample No :
Sample ID : BH238

19,224,444Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041270-
Date Acquired : 31/01/19 18:35:36 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

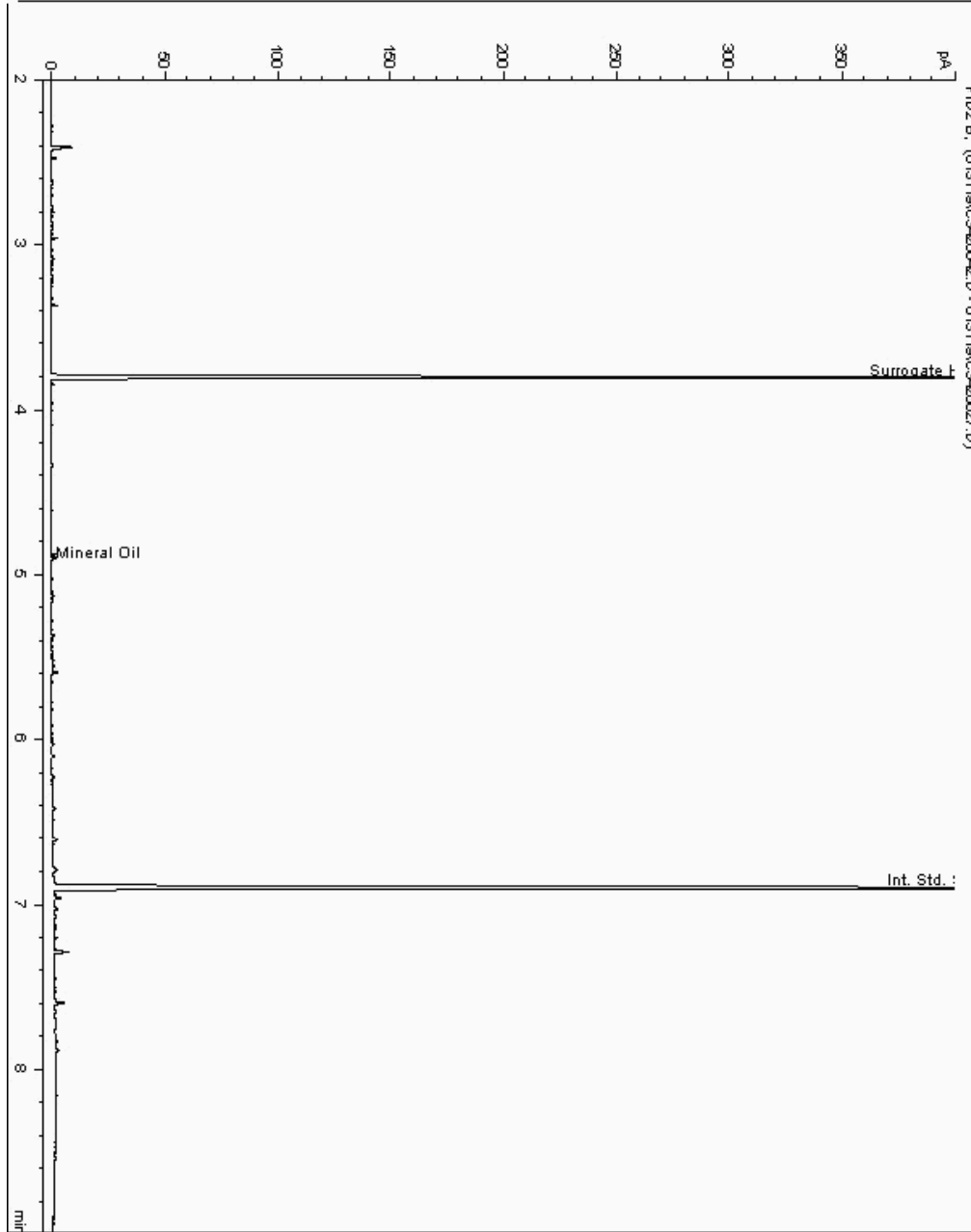
Analysis: Mineral Oil
19232554

Sample No :
Sample ID : BH231

19,232,554Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040325-
Date Acquired : 31/01/19 20:17:59 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

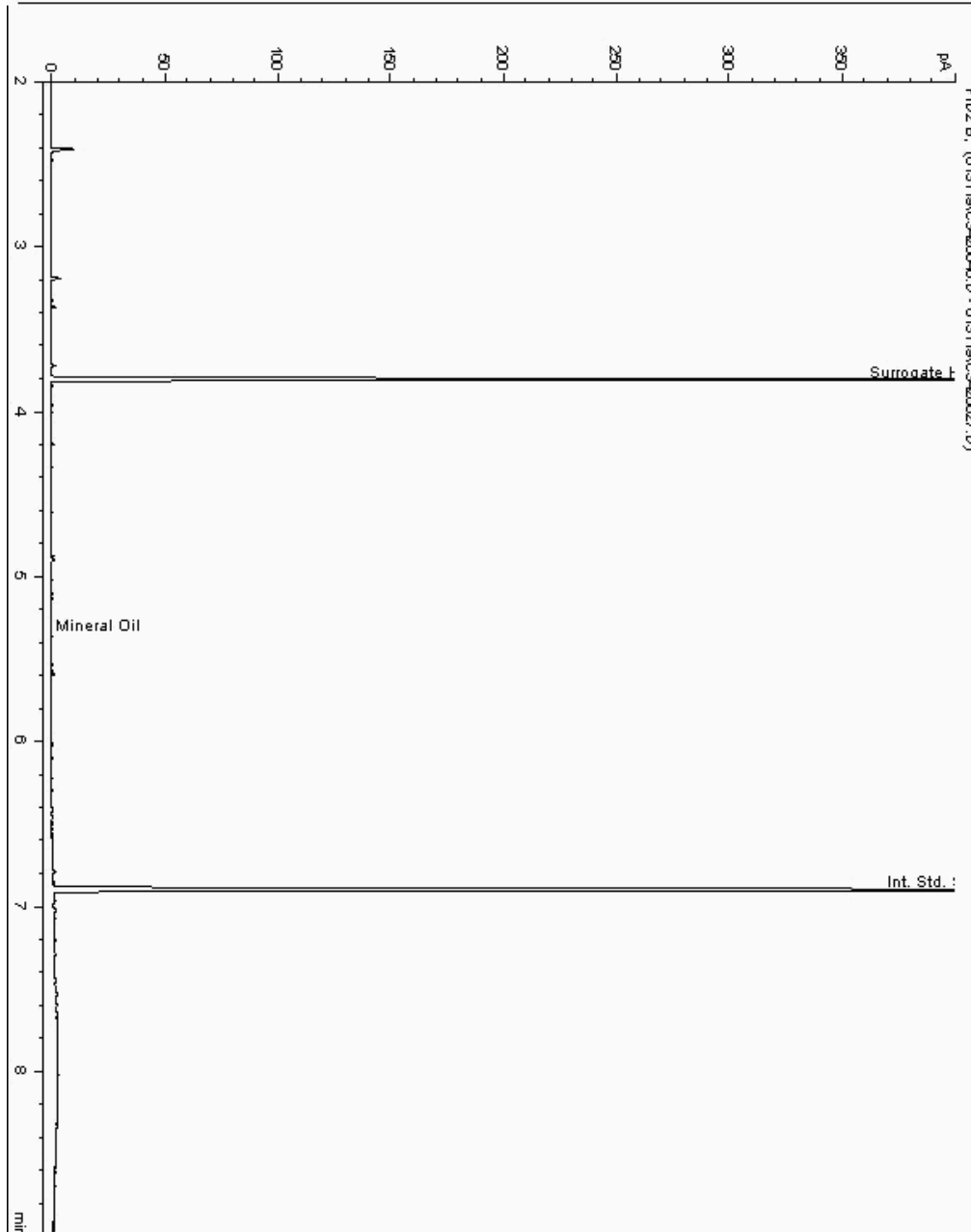
Analysis: Mineral Oil
19232684

Sample No :
Sample ID : BH238

19,232,684Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18041410-
Date Acquired : 31/01/19 19:36:54 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

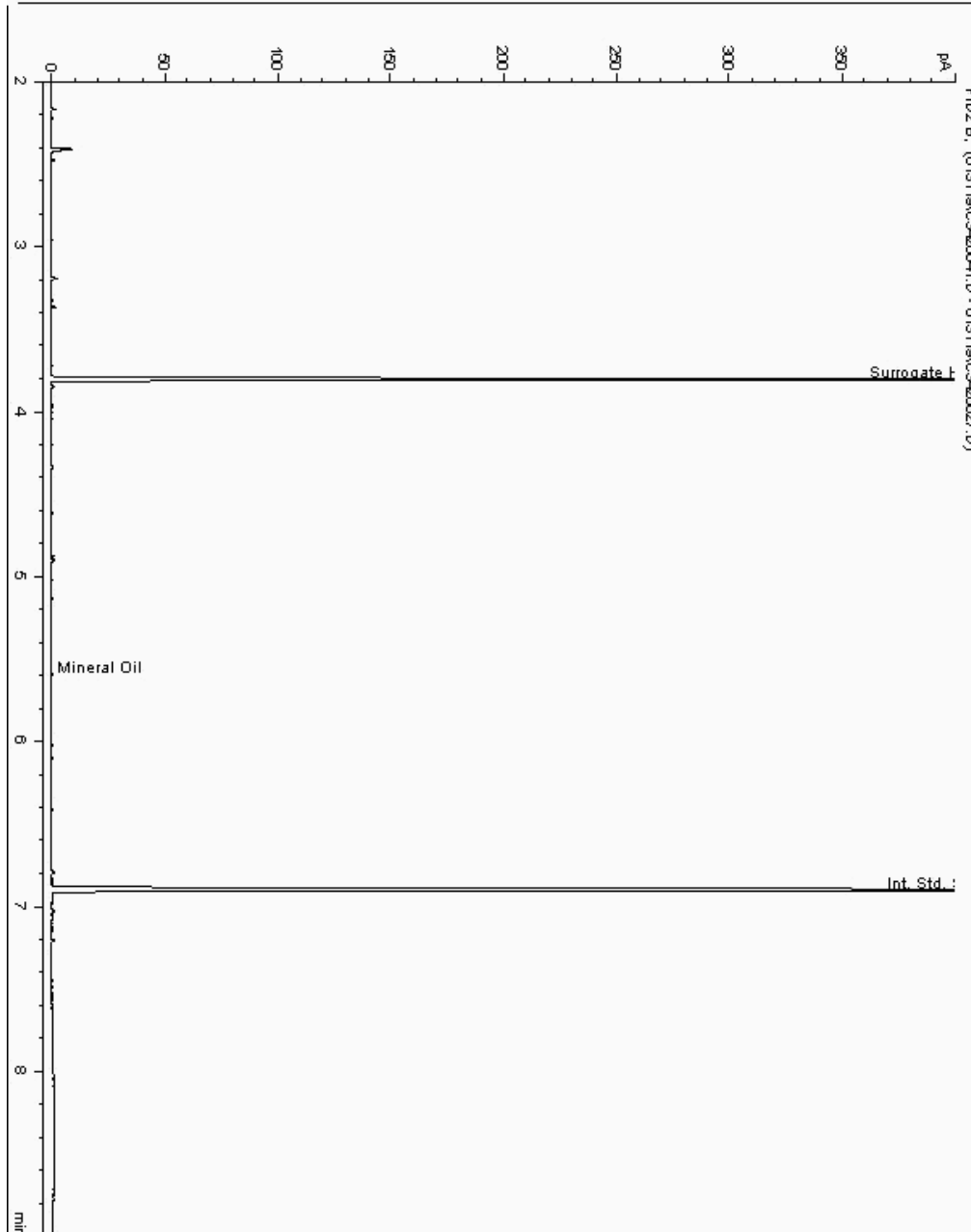
Analysis: Mineral Oil
19232772

Sample No :
Sample ID : BH236

19,232,772 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18040796-
Date Acquired : 31/01/19 19:57:32 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

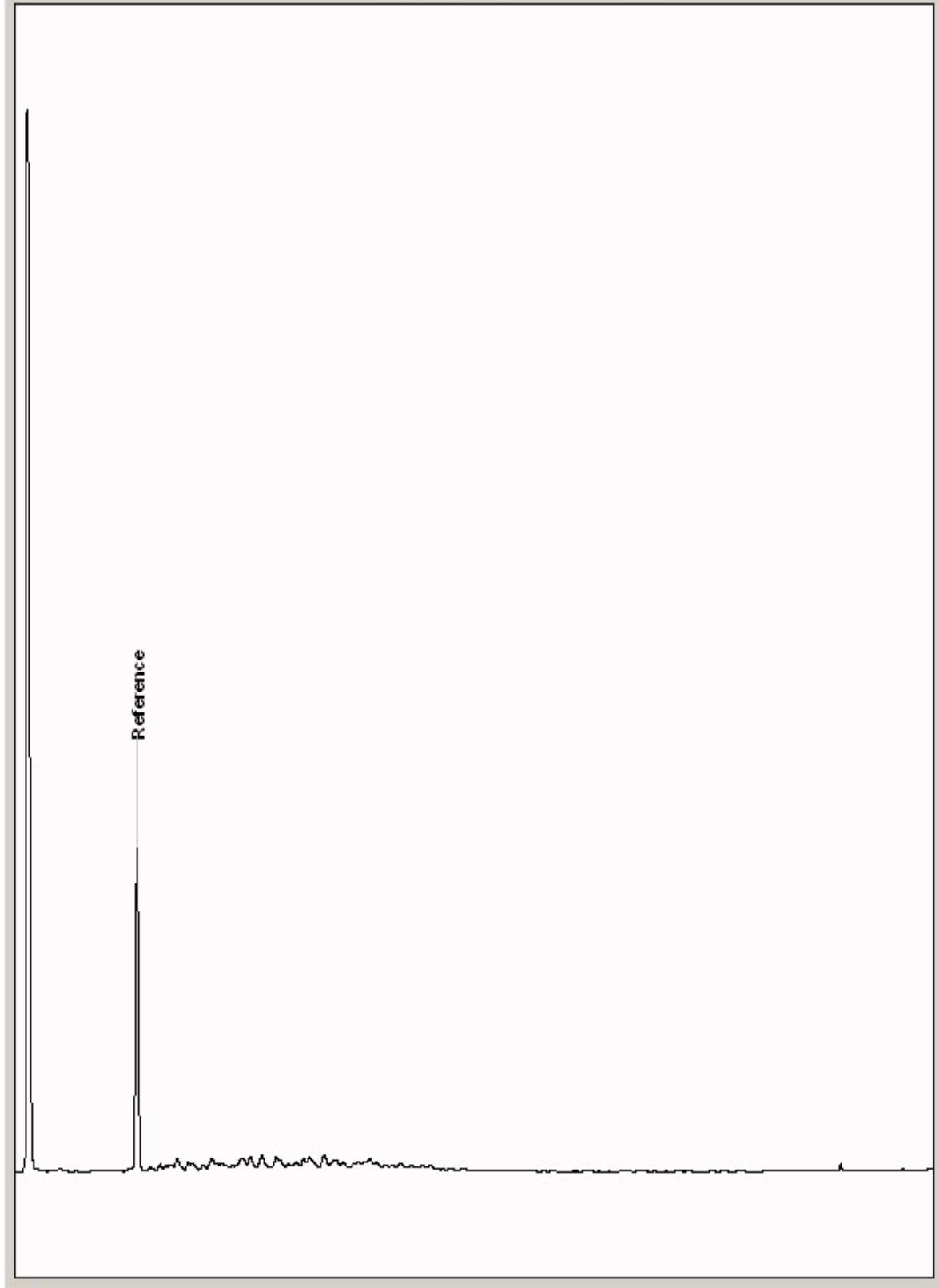
Chromatogram

Analysis: GRO by GC-FID (S)
19259487

Sample No :
Sample ID : BH231

19,259,487Depth :3.00 - 4.00

19259487_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

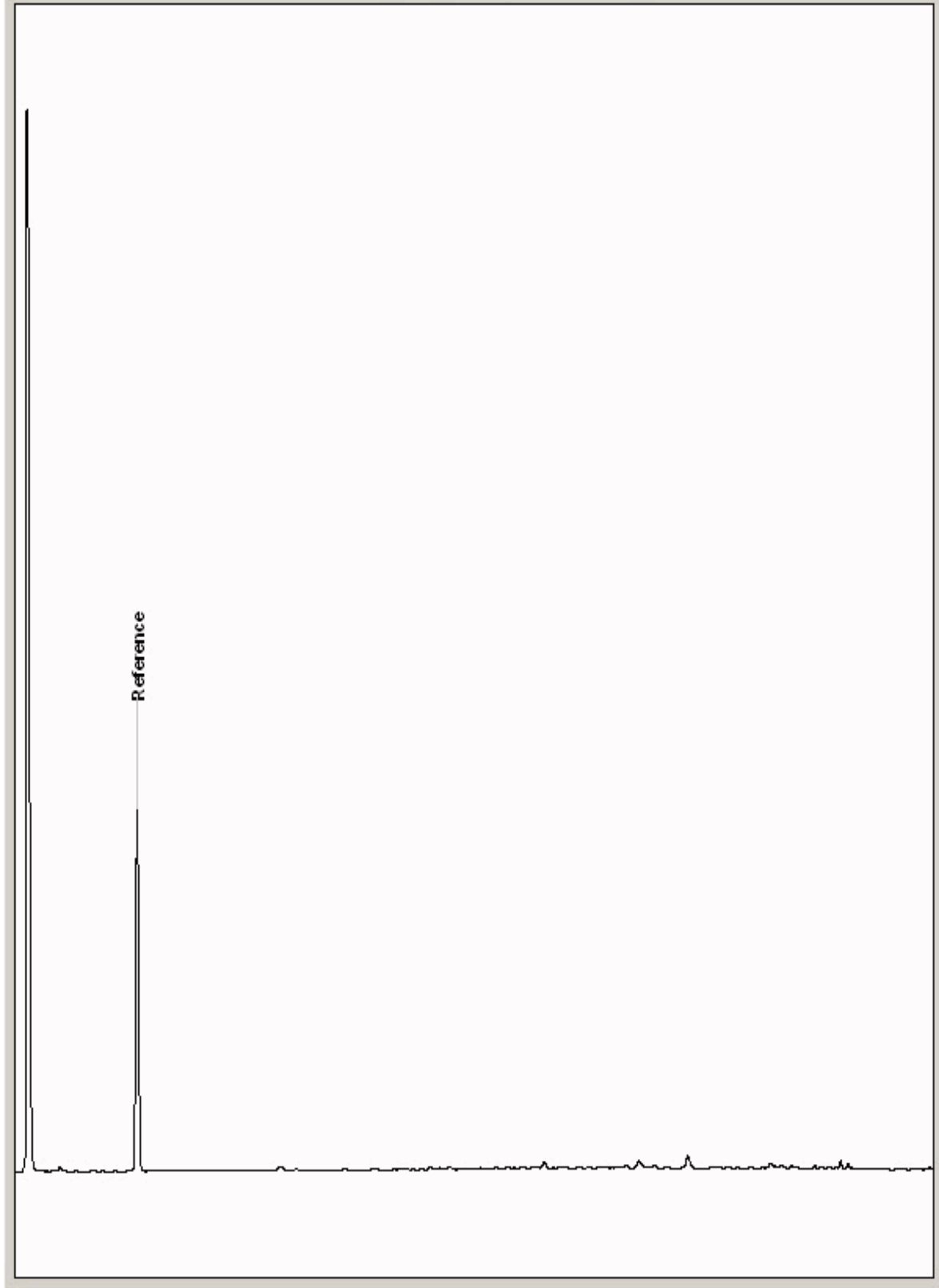
Chromatogram

Analysis: GRO by GC-FID (S)
19259494

Sample No :
Sample ID : BH238

19,259,494Depth :0.00 - 0.50

19259494_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

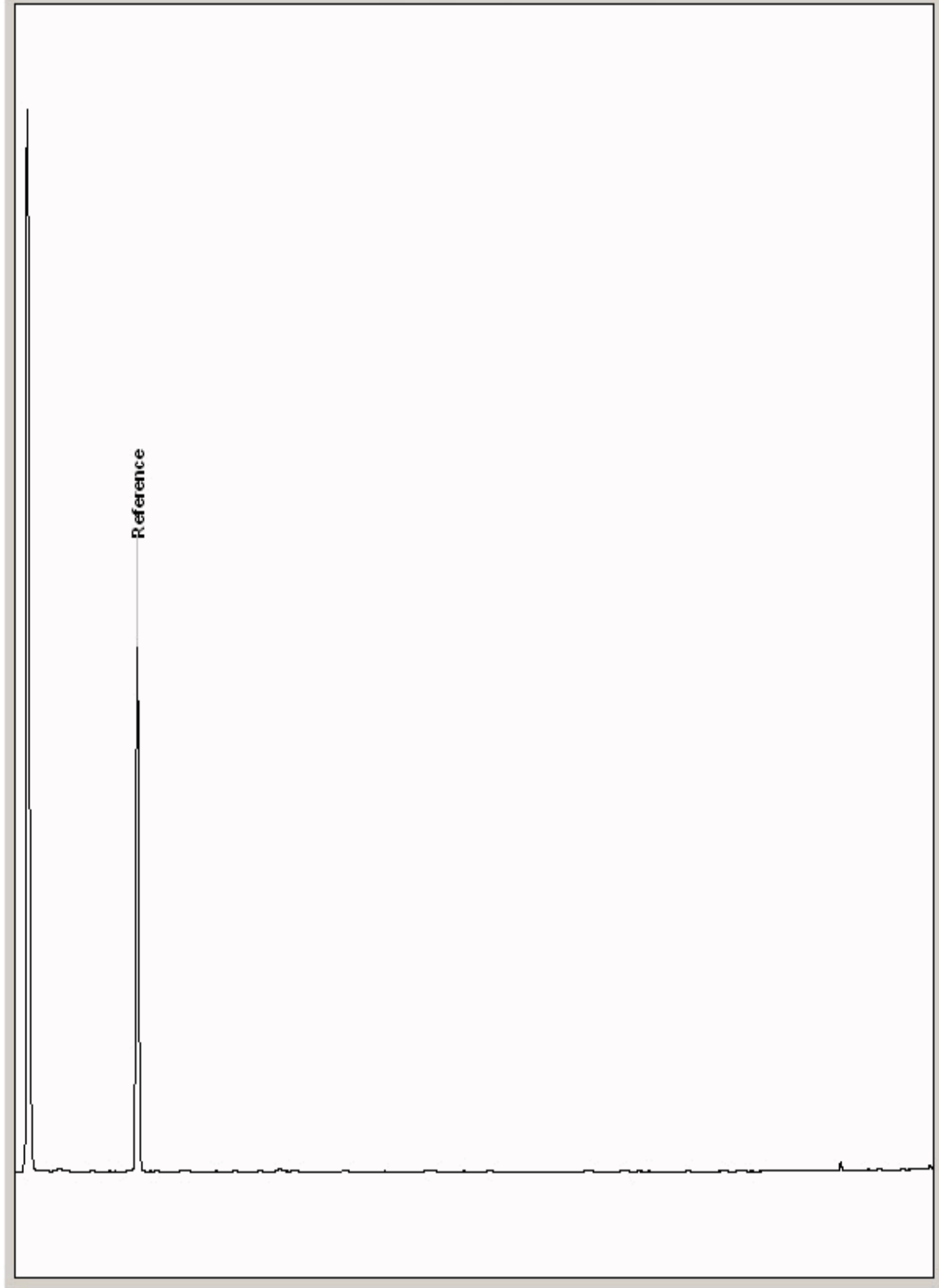
Chromatogram

Analysis: GRO by GC-FID (S)
19260004

Sample No :
Sample ID : BH236

19,260,004Depth :8.00 - 9.00

19260004_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

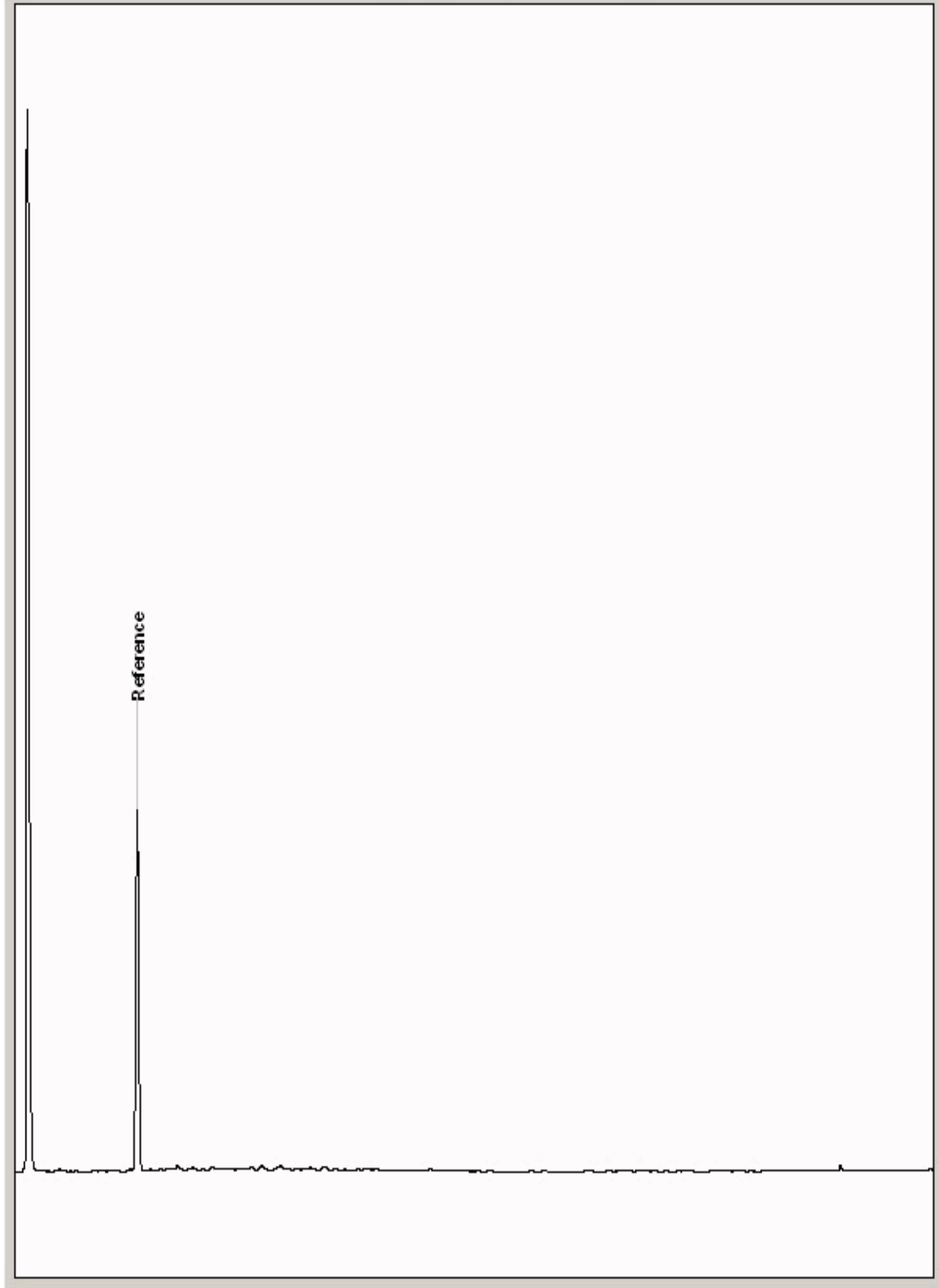
Chromatogram

Analysis: GRO by GC-FID (S)
19260024

Sample No :
Sample ID : BH238

19,260,024**Depth :** 1.00 - 2.00

19260024_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

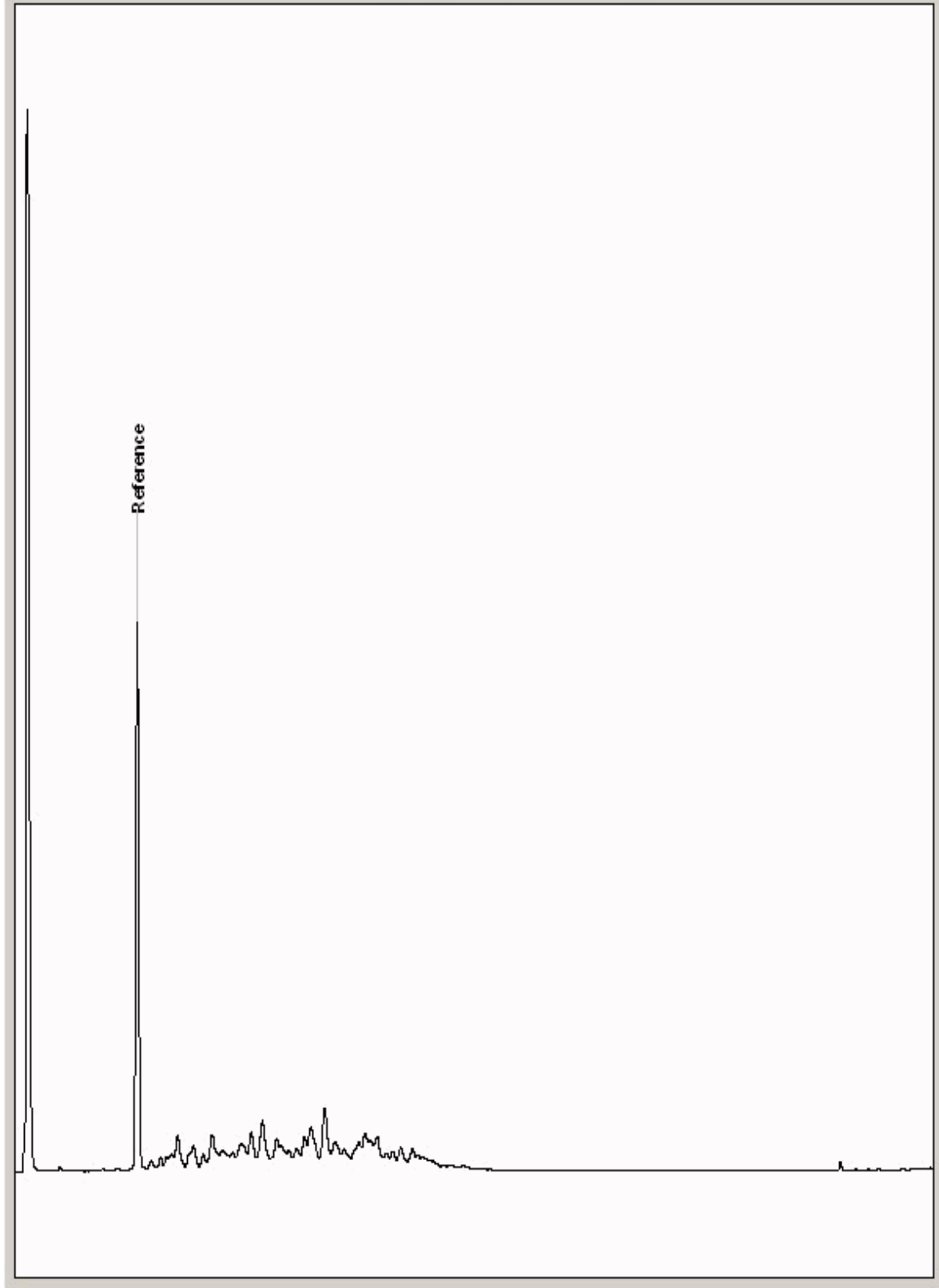
Chromatogram

Analysis: GRO by GC-FID (S)
19260055

Sample No :
Sample ID : BH231

19,260,055Depth :5.00 - 6.00

19260055_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

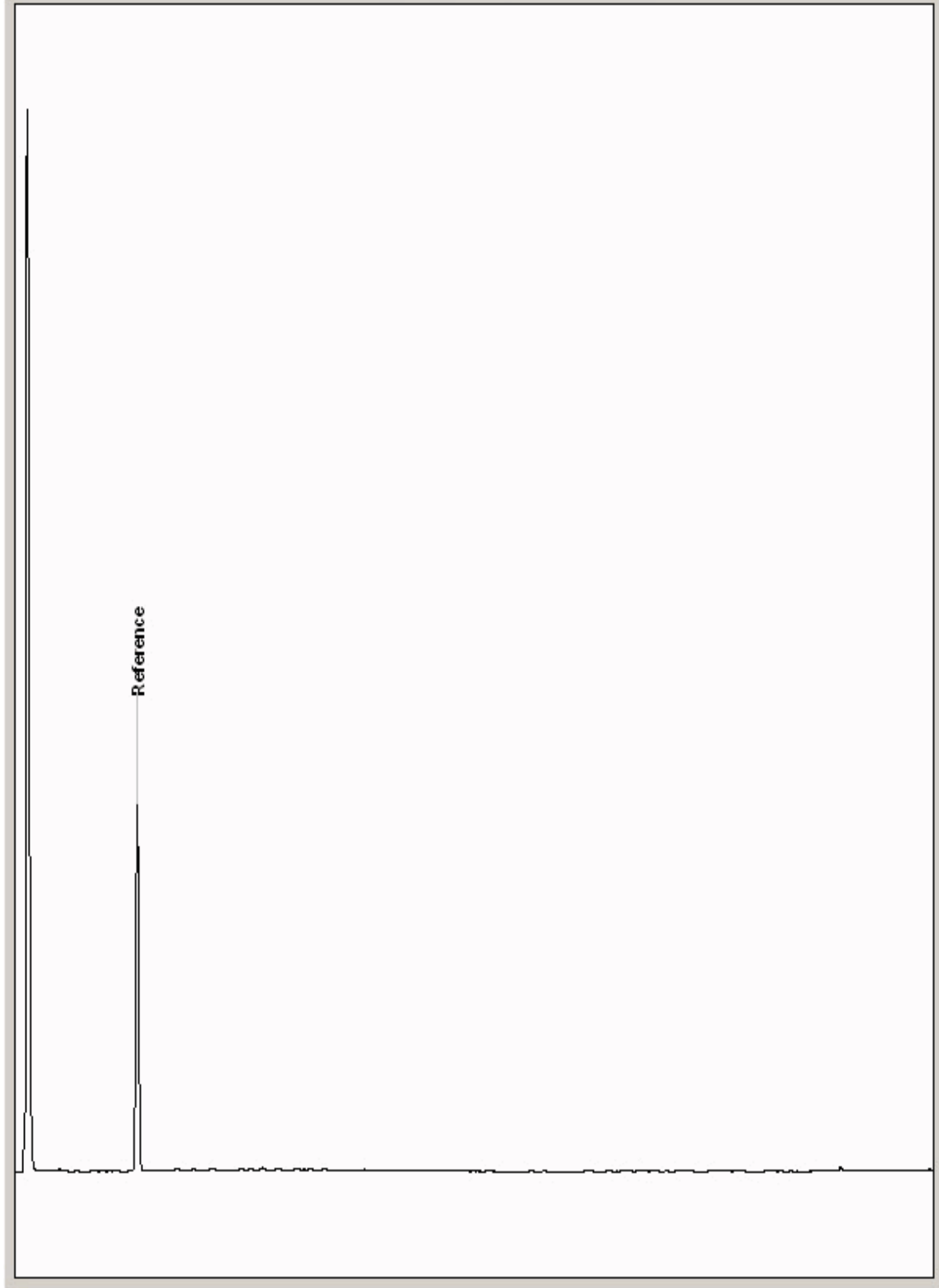
Chromatogram

Analysis: GRO by GC-FID (S)
19261793

Sample No :
Sample ID : BH238

19,261,793Depth :2.00 - 3.00

19261793_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

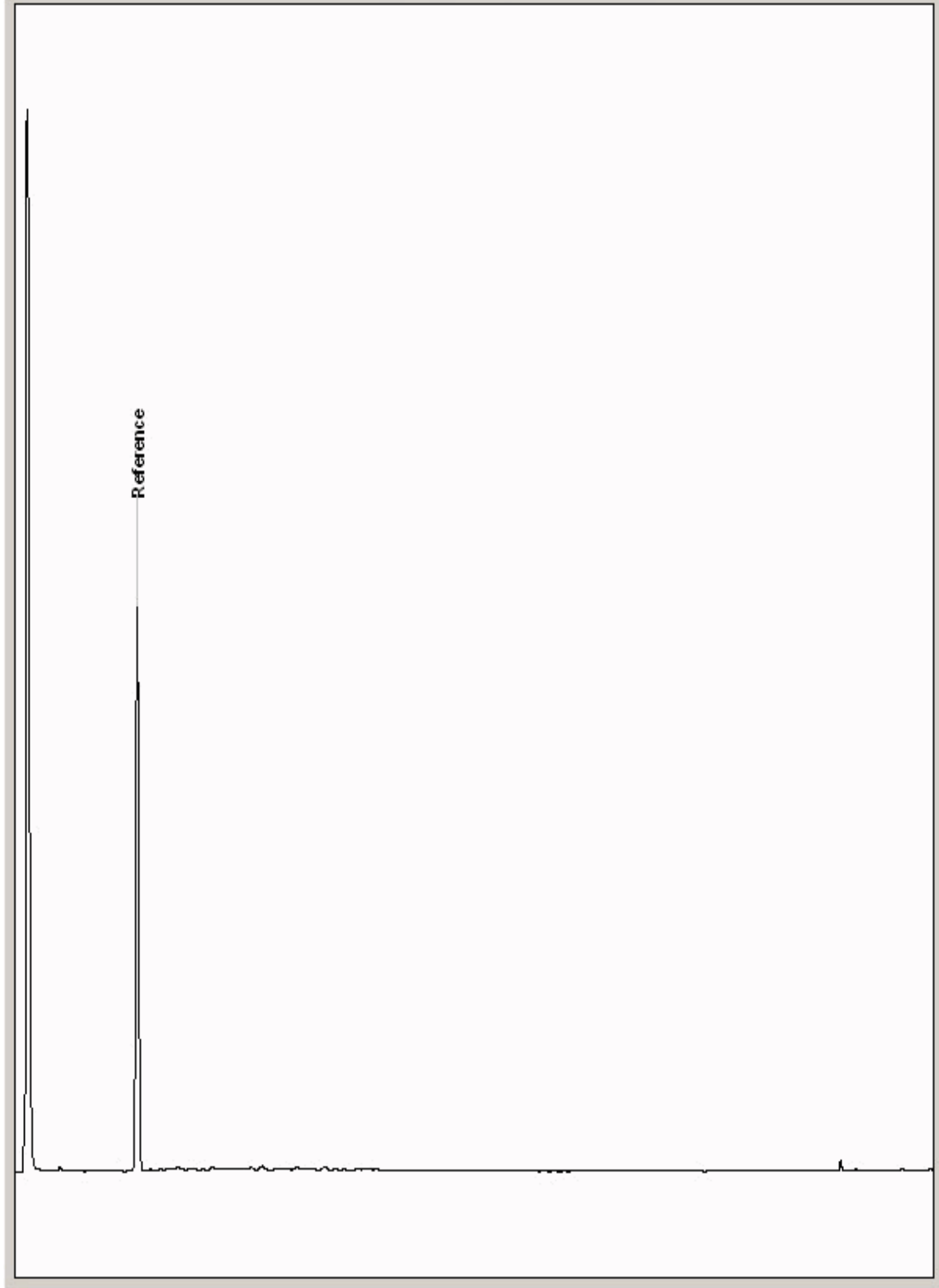
Chromatogram

Analysis: GRO by GC-FID (S)
19264551

Sample No :
Sample ID : BH238

19,264,551 Depth : 3.00 - 4.00

19264551_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

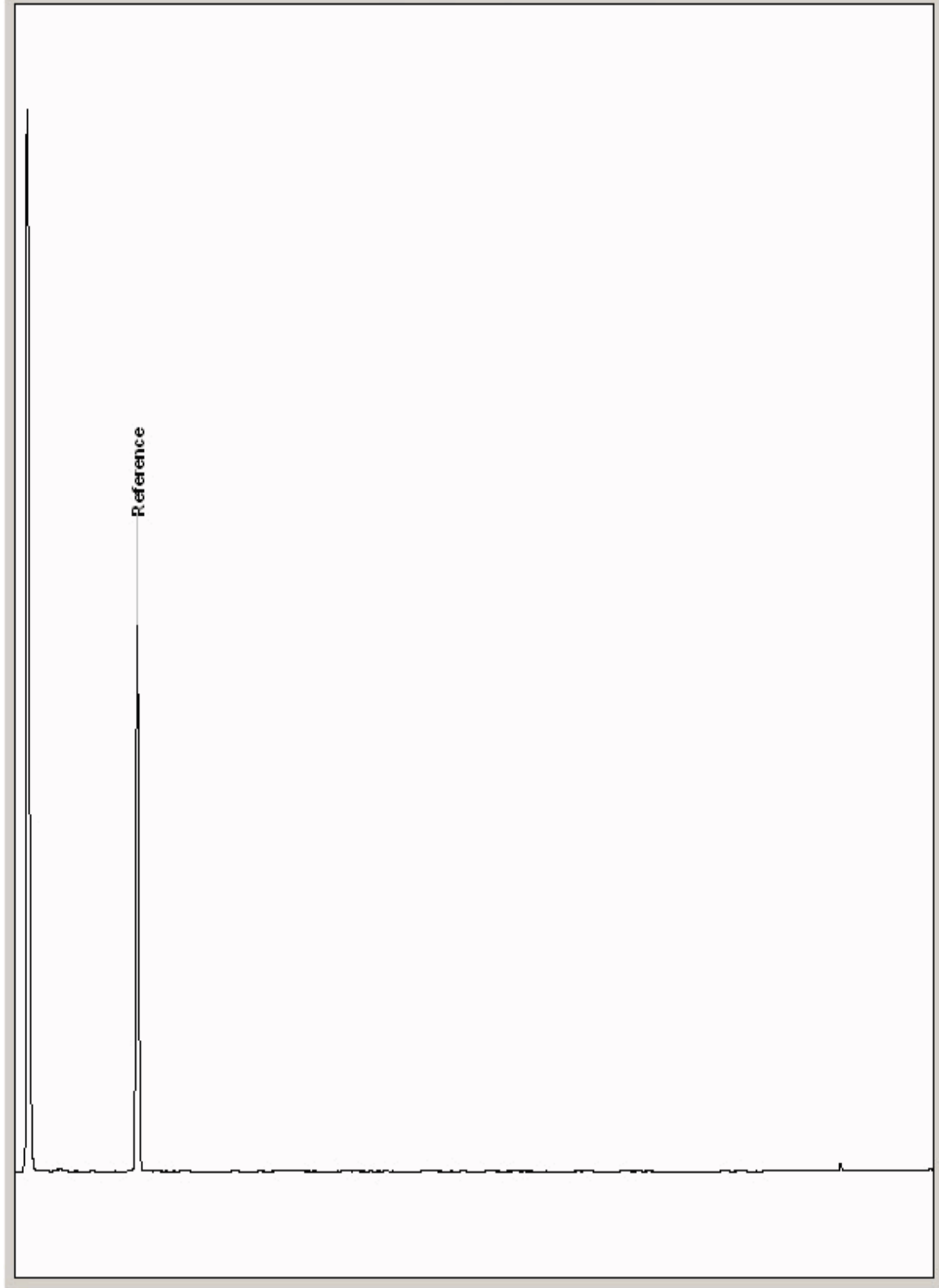
Chromatogram

Analysis: GRO by GC-FID (S)
19264557

Sample No :
Sample ID : BH236

19,264,557 **Depth :** 9.00 - 10.00

19264557_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

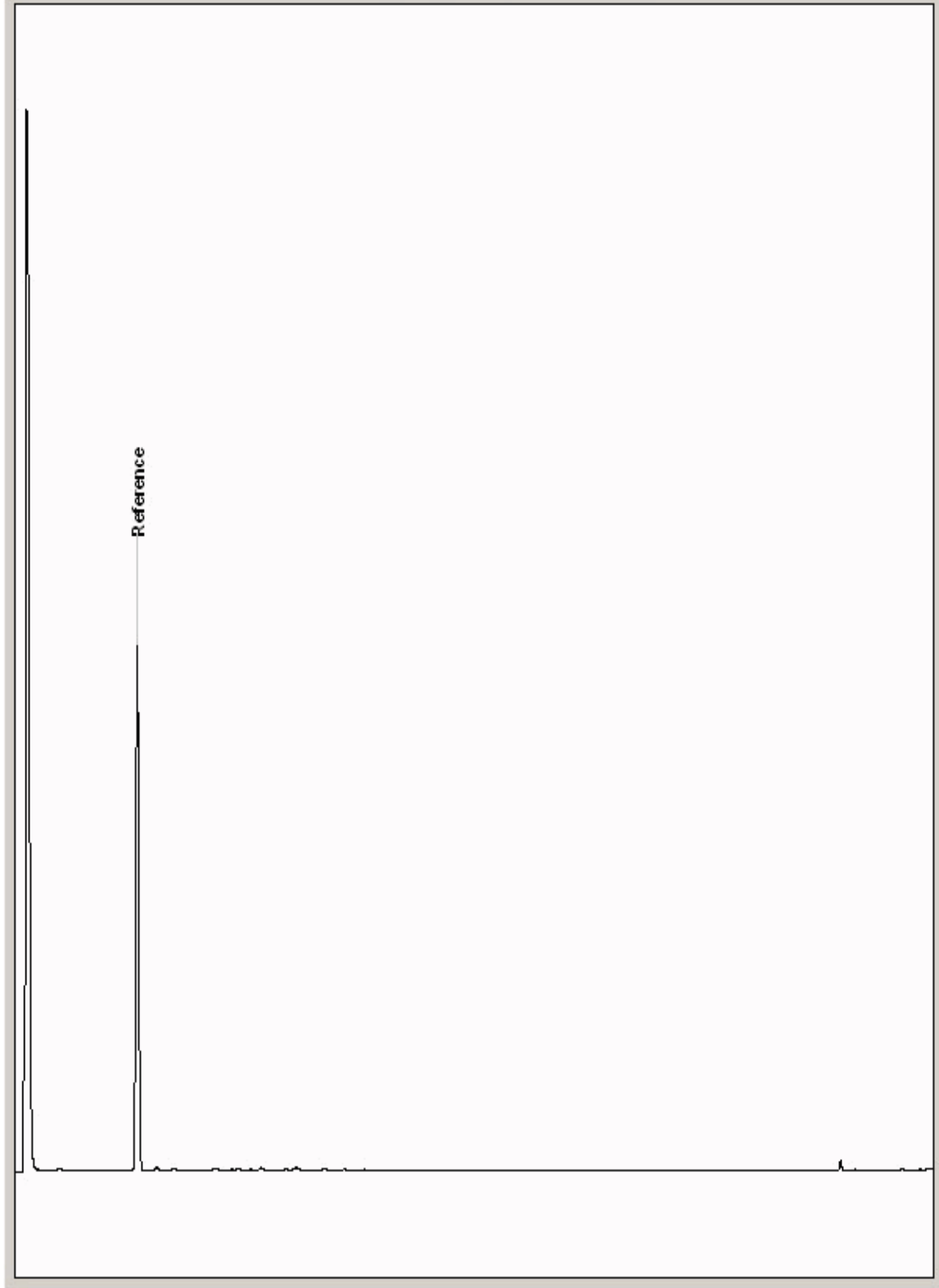
Chromatogram

Analysis: GRO by GC-FID (S)
19264613

Sample No :
Sample ID : BH238

19,264,613 Depth : 4.00 - 5.00

19264613_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

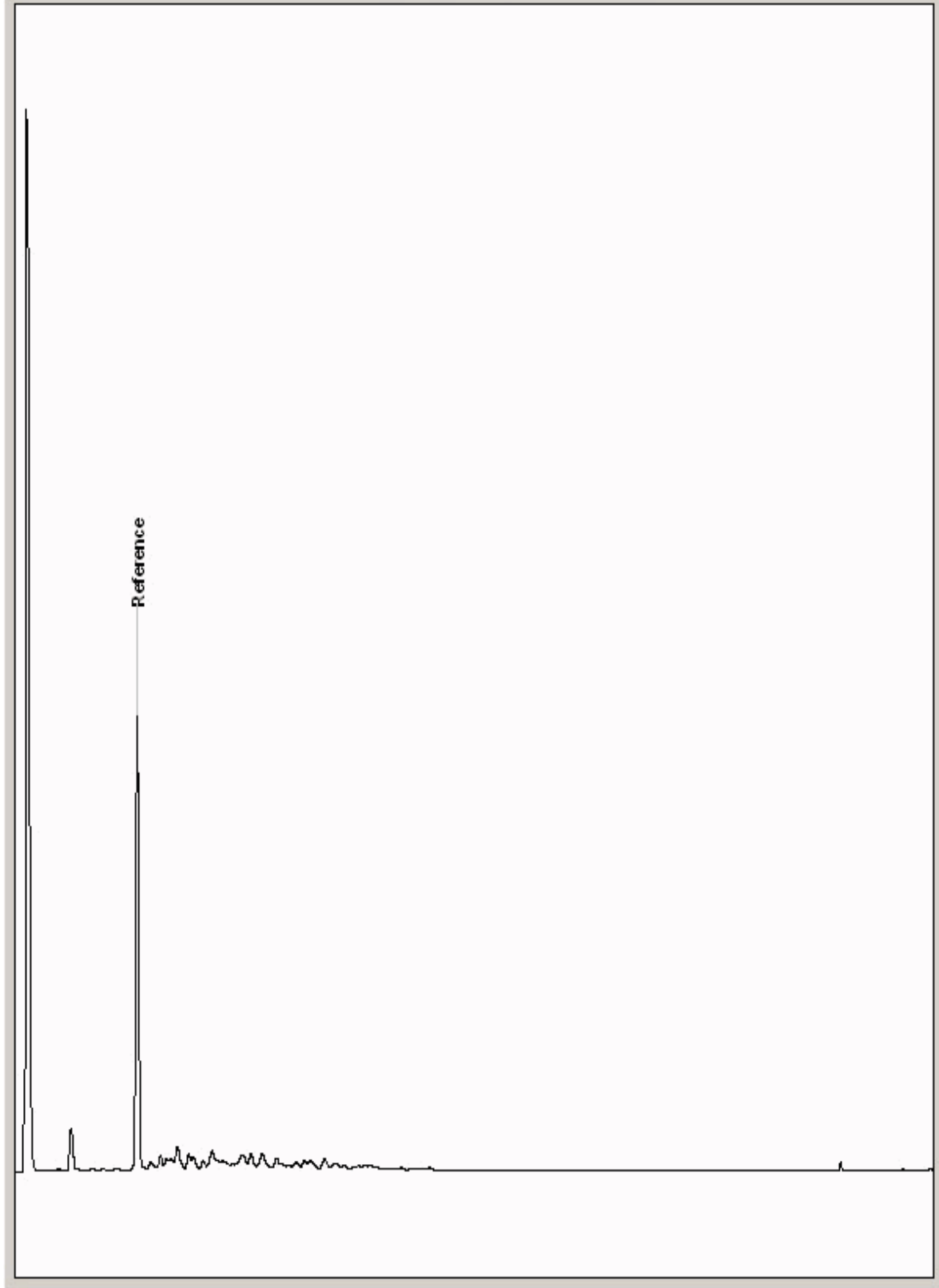
Chromatogram

Analysis: GRO by GC-FID (S)
19264624

Sample No :
Sample ID : BH231

19,264,624Depth : 1.00 - 2.00

19264624_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

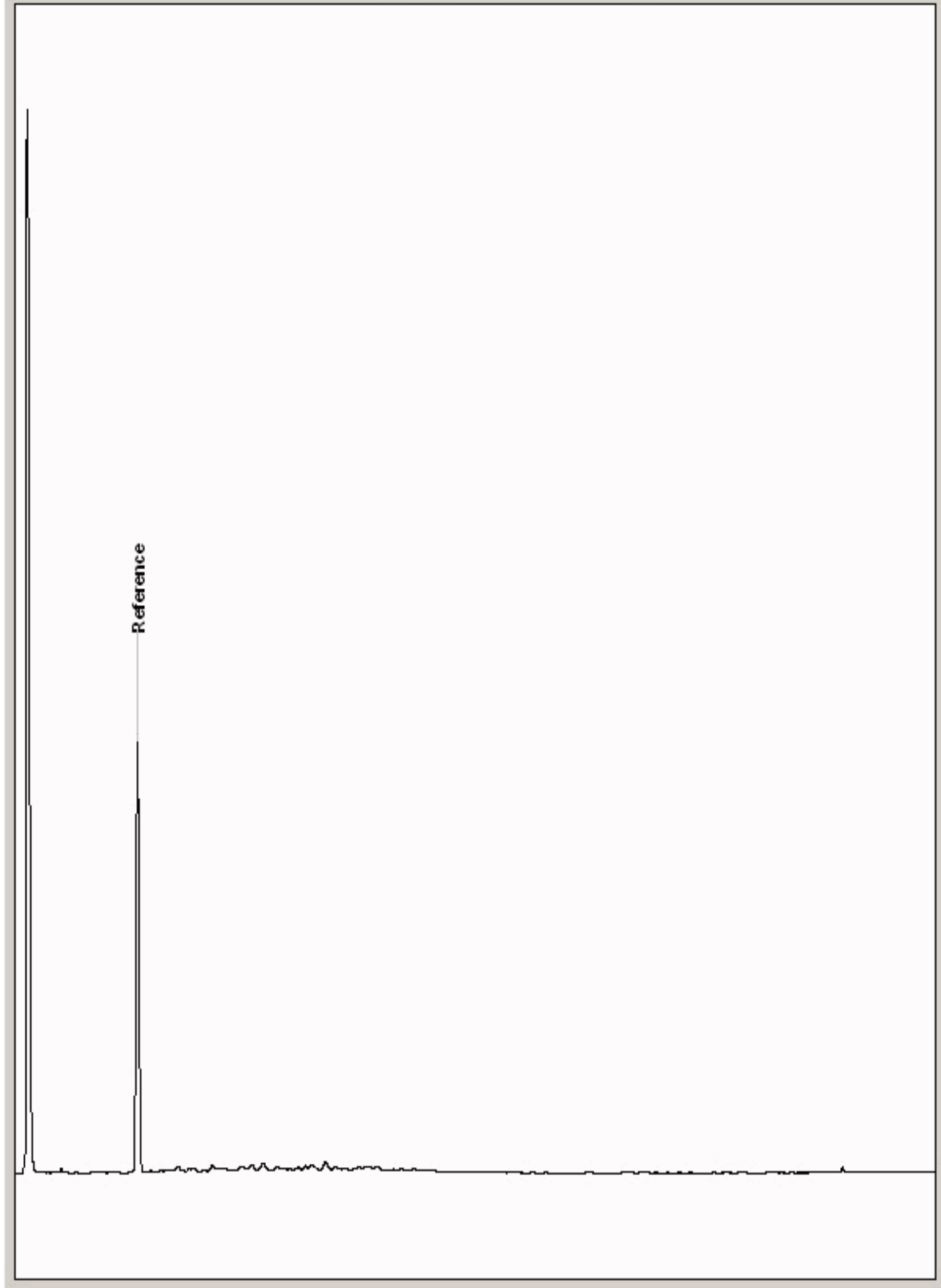
Chromatogram

Analysis: GRO by GC-FID (S)
19264632

Sample No :
Sample ID : BH231

19,264,632Depth :6.00 - 7.00

19264632_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

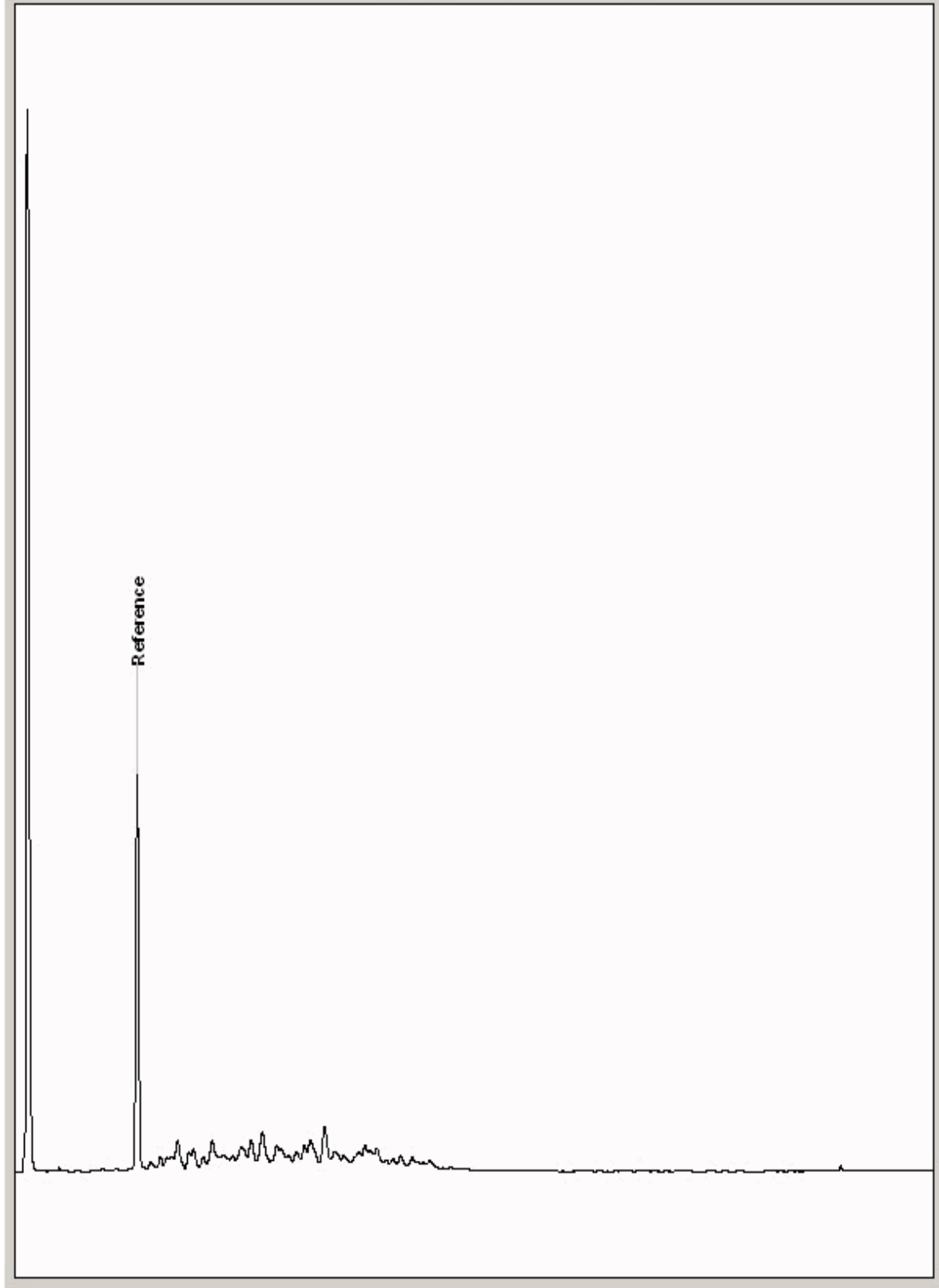
Chromatogram

Analysis: GRO by GC-FID (S)
19264645

Sample No :
Sample ID : BH231

19,264,645Depth :2.00 - 3.00

19264645_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

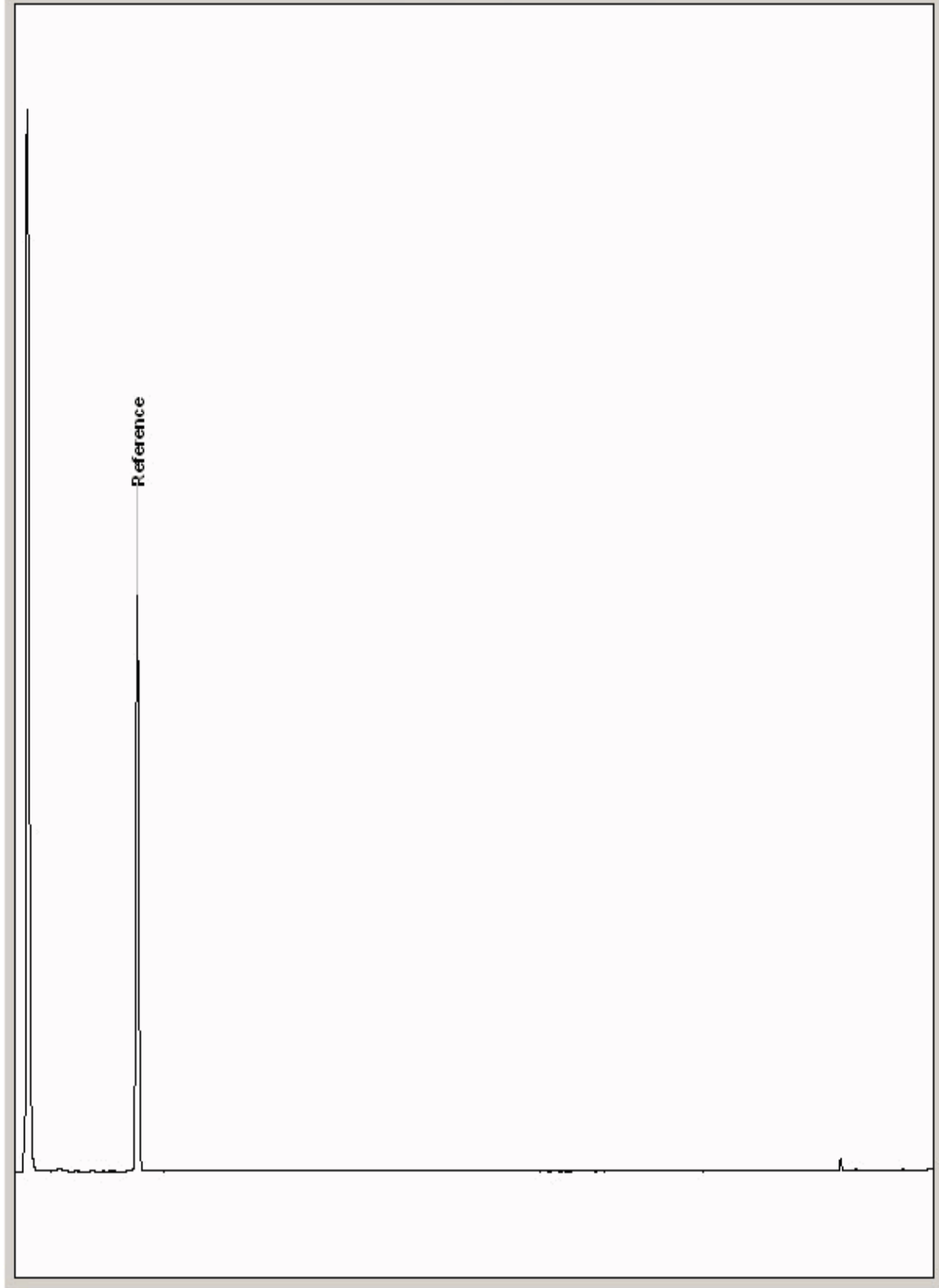
Chromatogram

Analysis: GRO by GC-FID (S)
19264678

Sample No :
Sample ID : BH231

19,264,678 Depth : 4.00 - 5.00

19264678_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

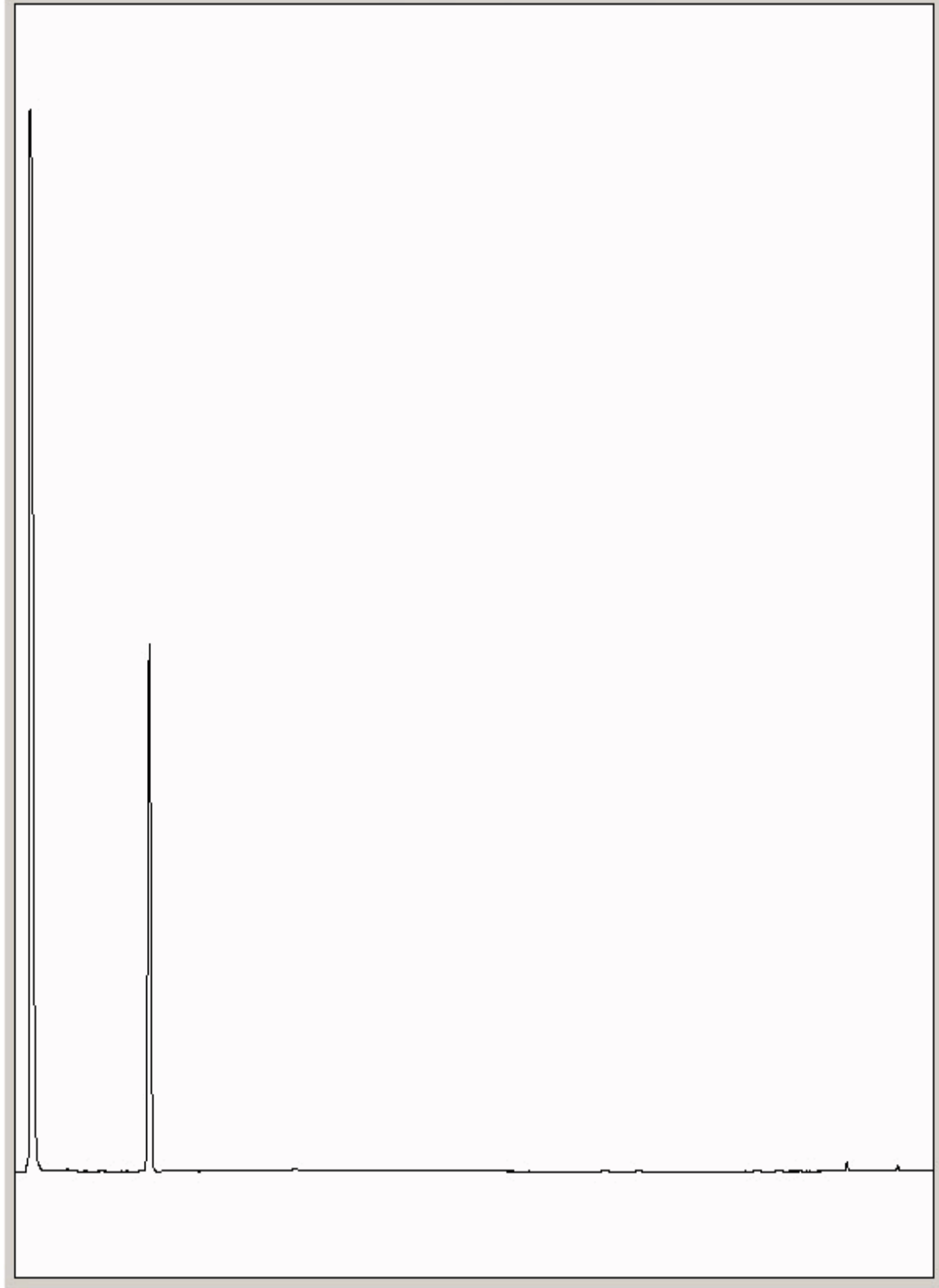
Chromatogram

Analysis: GRO by GC-FID (S)
19265679

Sample No :
Sample ID : BH230

19,265,679 **Depth :** 12.00 - 13.00

19265679_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

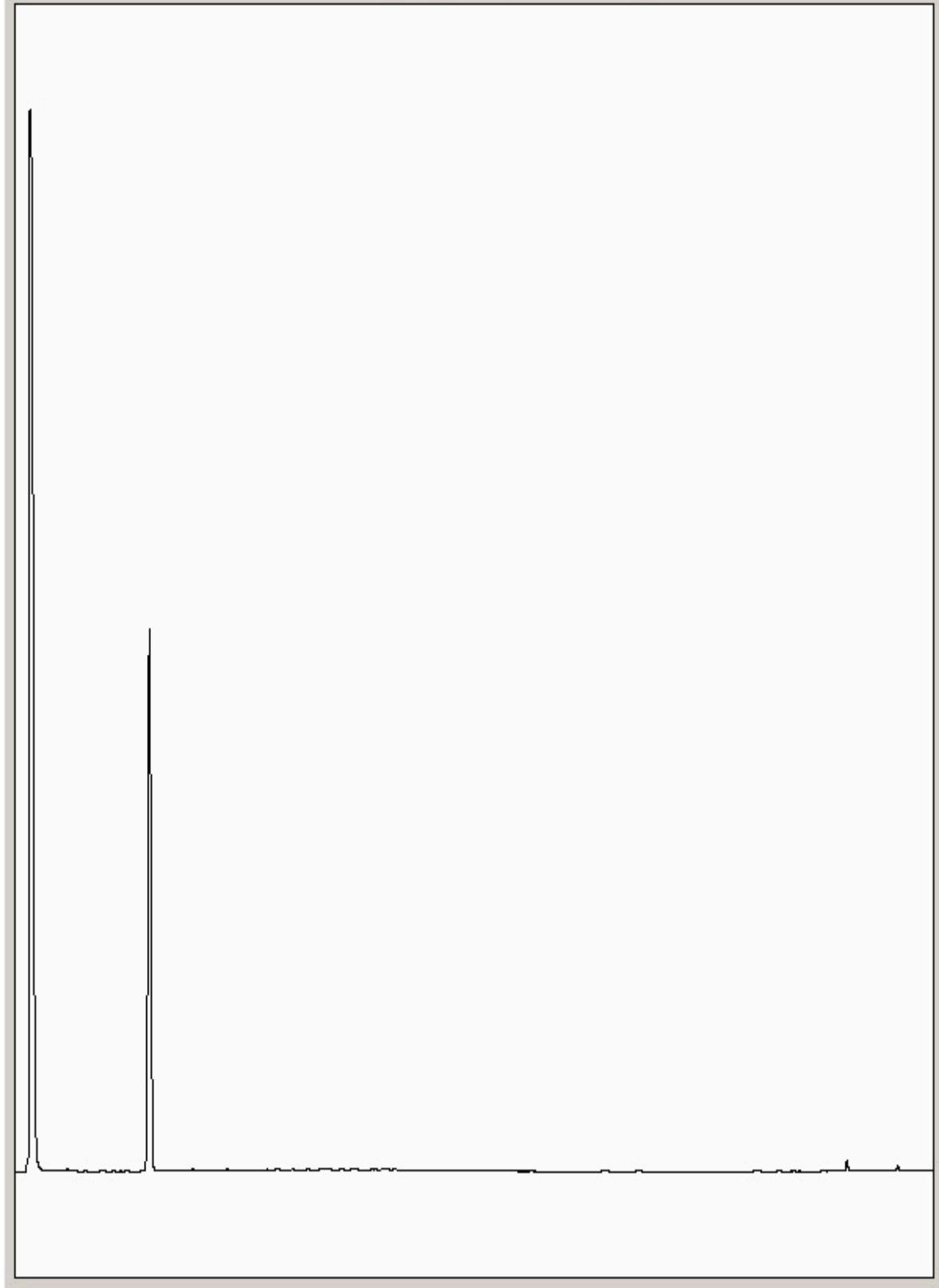
Chromatogram

Analysis: GRO by GC-FID (S)
19265684

Sample No :
Sample ID : BH230

19,265,684 **Depth :** 10.00 - 11.00

19265684_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

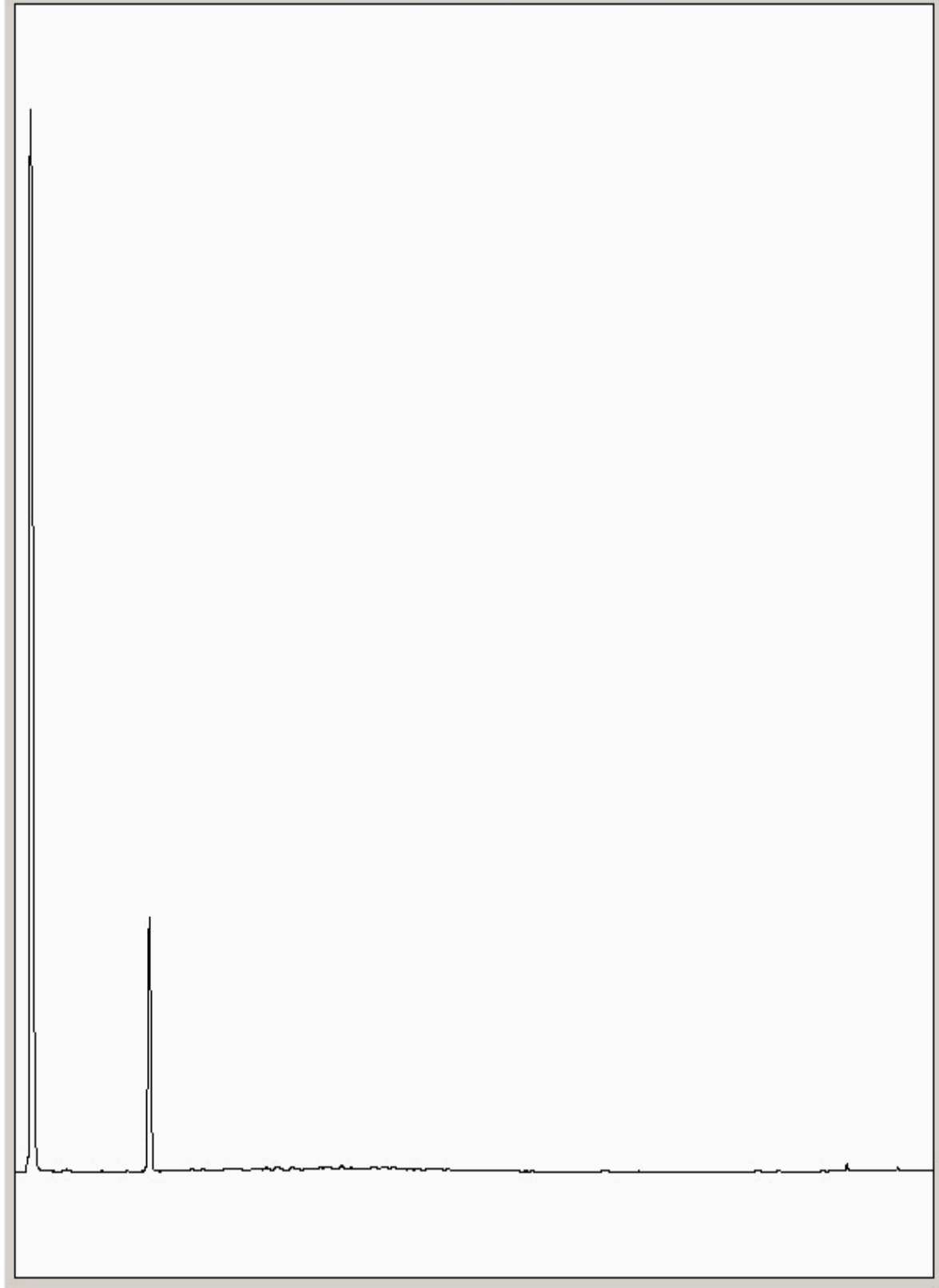
Chromatogram

Analysis: GRO by GC-FID (S)
19265712

Sample No :
Sample ID : BH230

19,265,712 **Depth :** 6.00 - 7.00

19265712_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

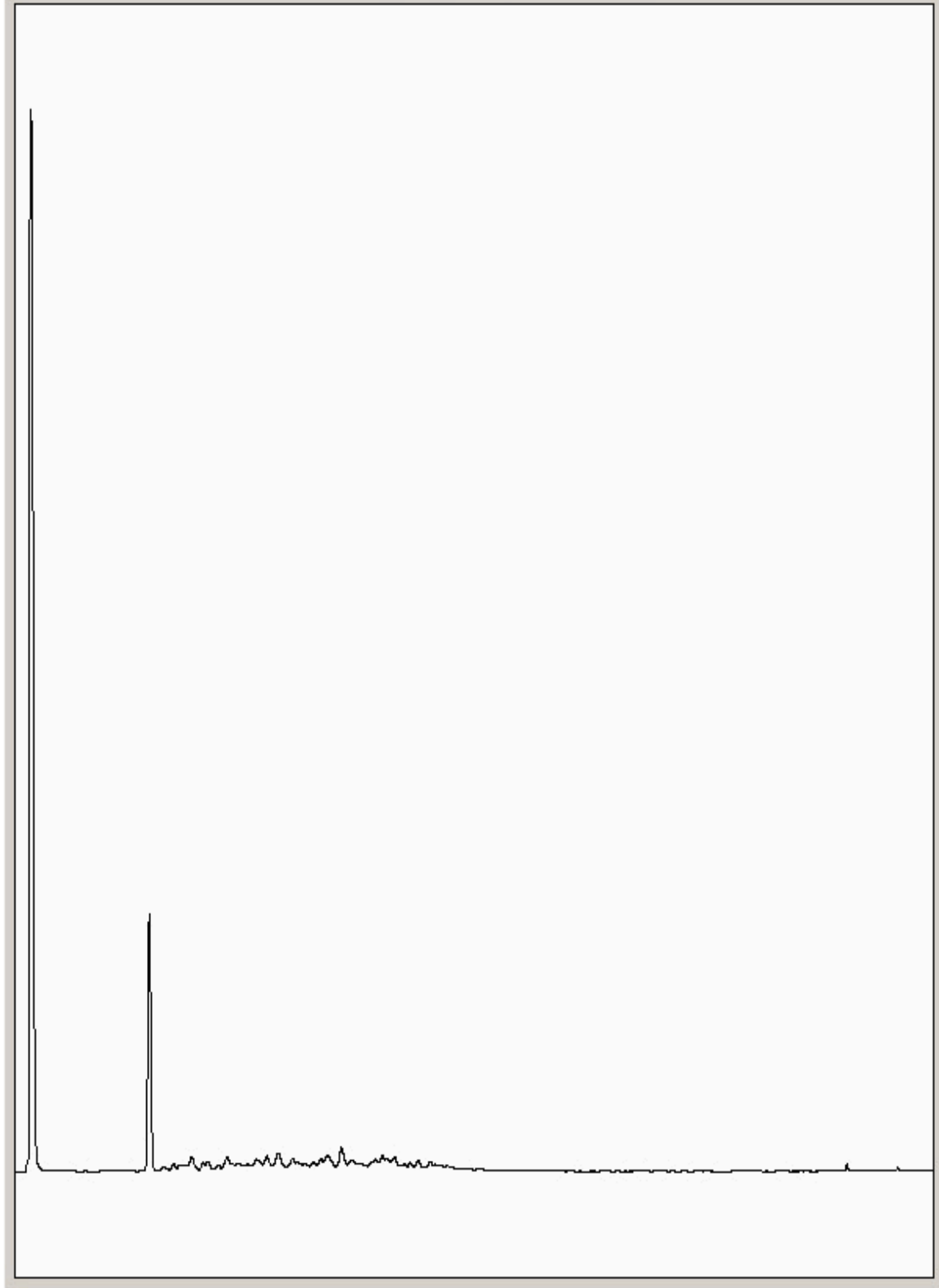
Chromatogram

Analysis: GRO by GC-FID (S)
19265822

Sample No :
Sample ID : BH230

19,265,822**Depth :** 3.00 - 4.00

19265822_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

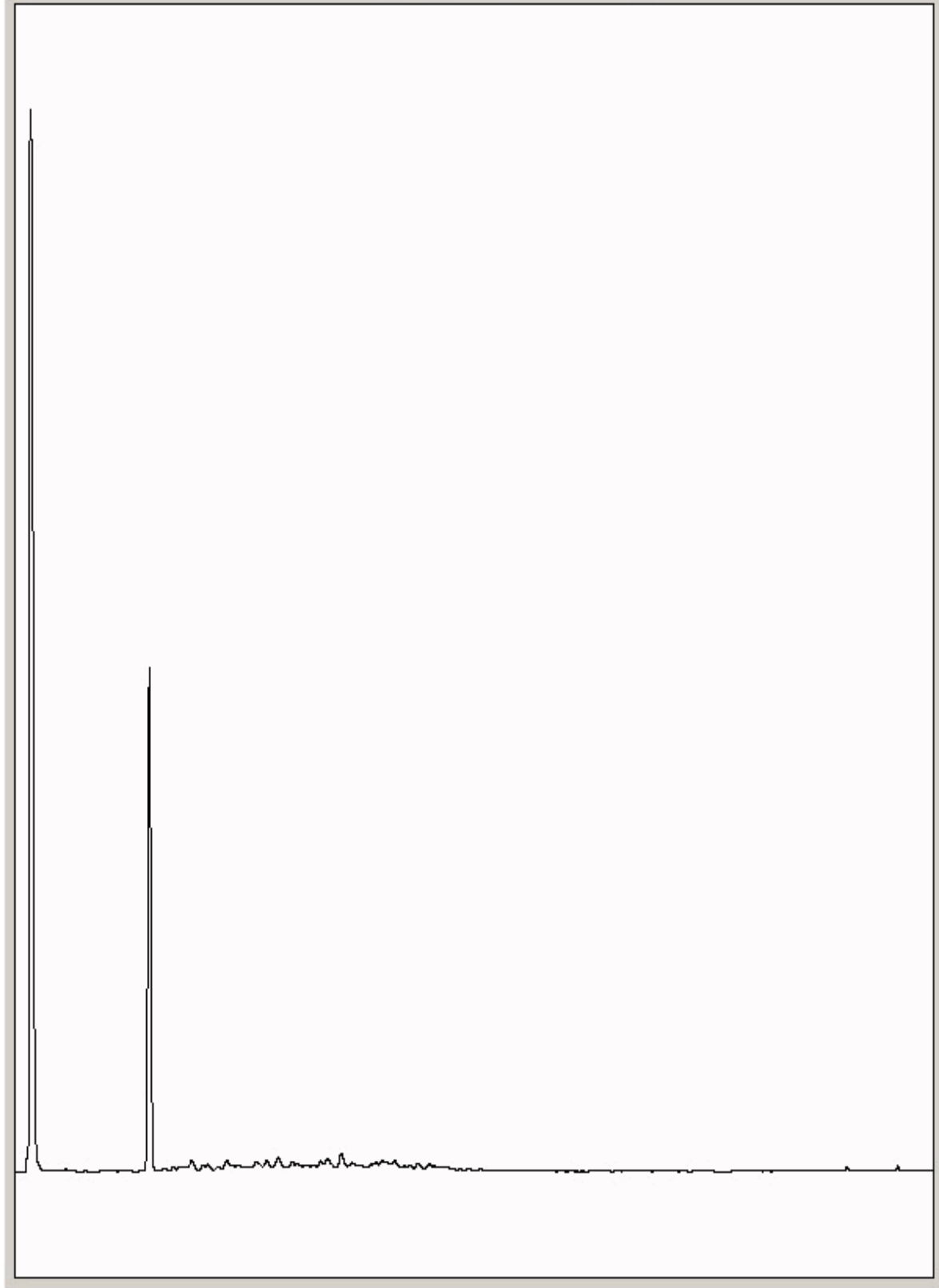
Chromatogram

Analysis: GRO by GC-FID (S)
19265827

Sample No :
Sample ID : BH230

19,265,827**Depth :**2.00 - 3.00

19265827_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

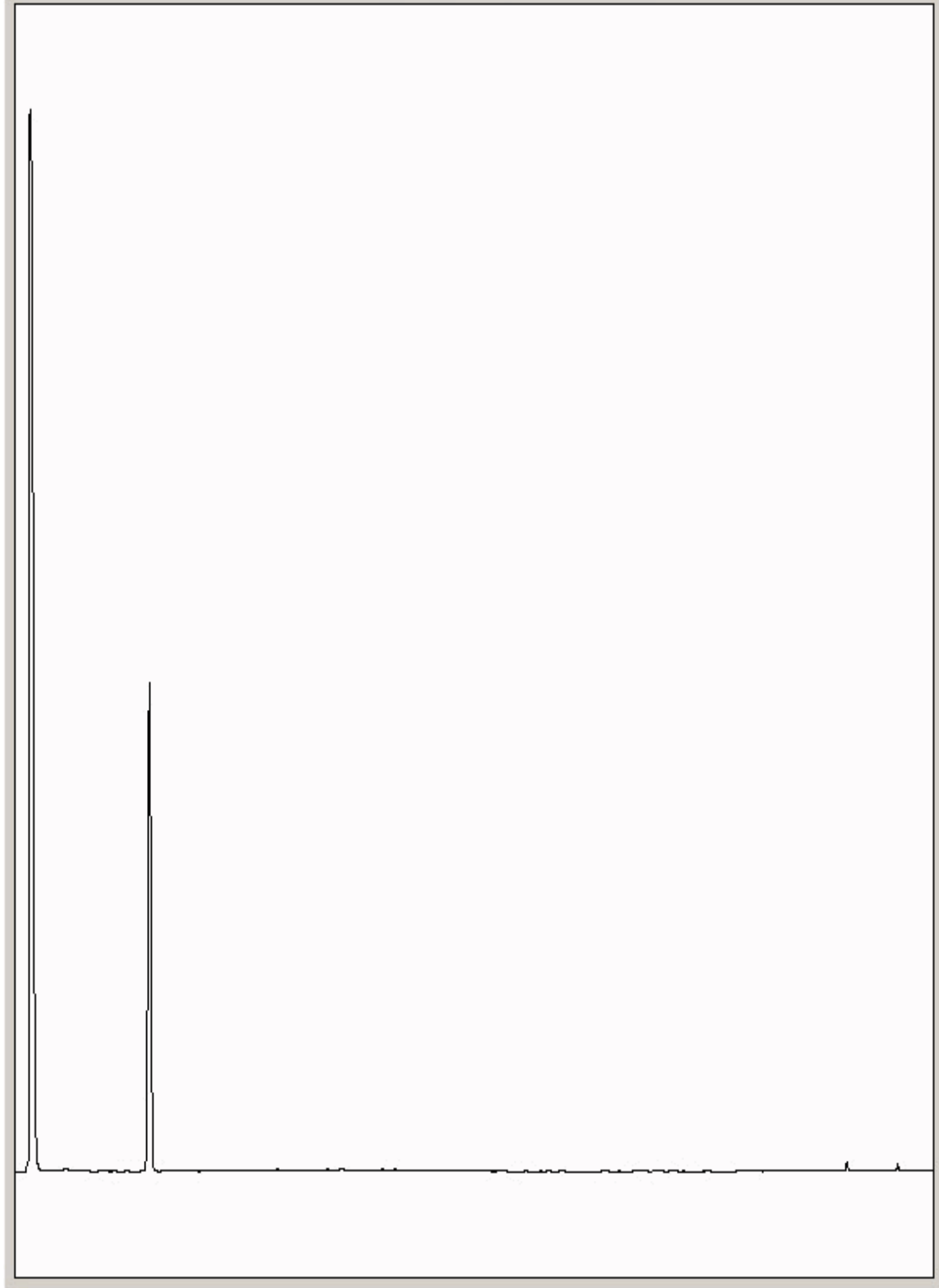
Chromatogram

Analysis: GRO by GC-FID (S)
19265845

Sample No :
Sample ID : BH230

19,265,845 **Depth :** 0.00 - 0.50

19265845_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

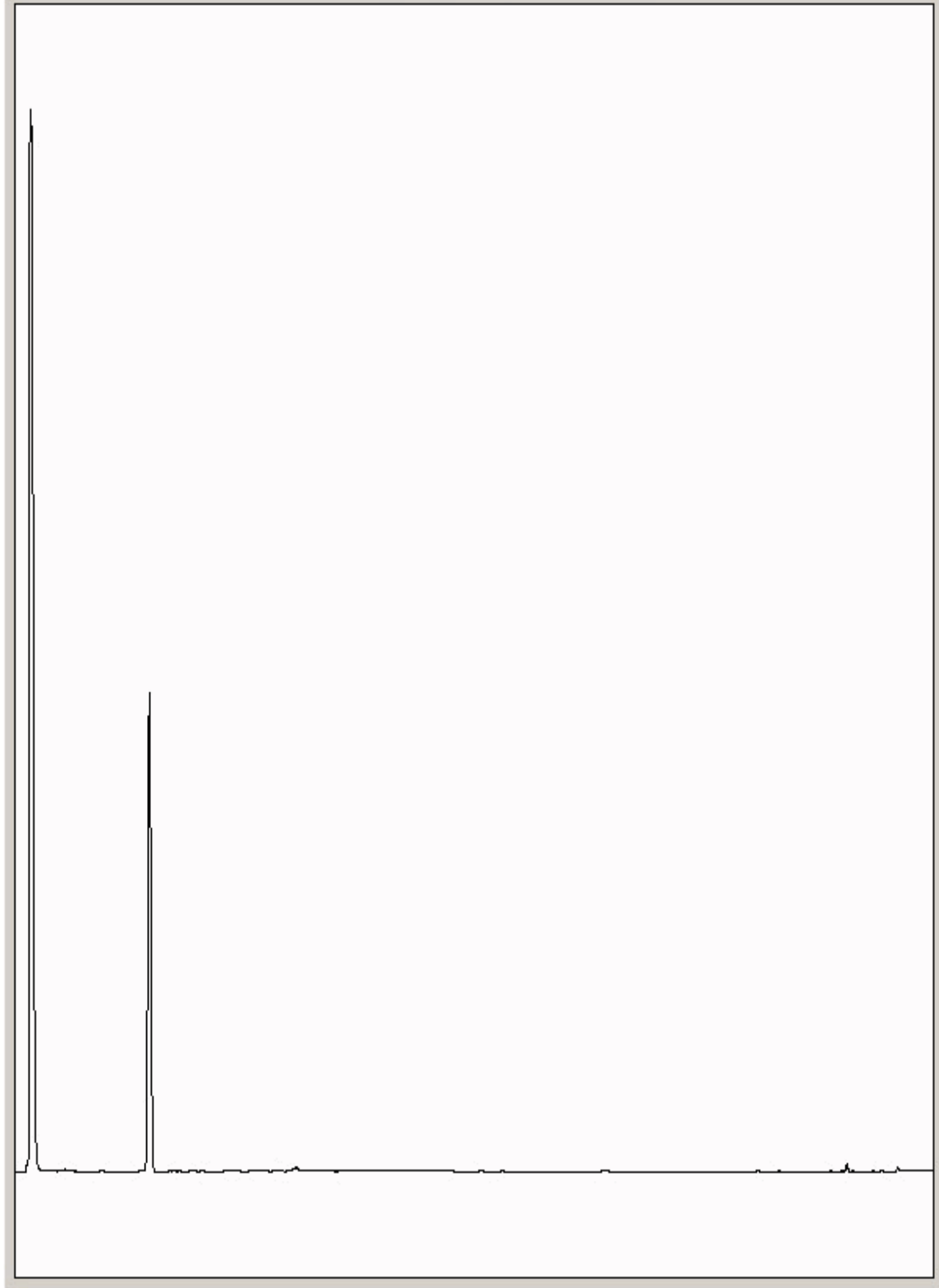
Chromatogram

Analysis: GRO by GC-FID (S)
19265983

Sample No :
Sample ID : BH230

19,265,983 **Depth :** 9.00 - 10.00

19265983_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

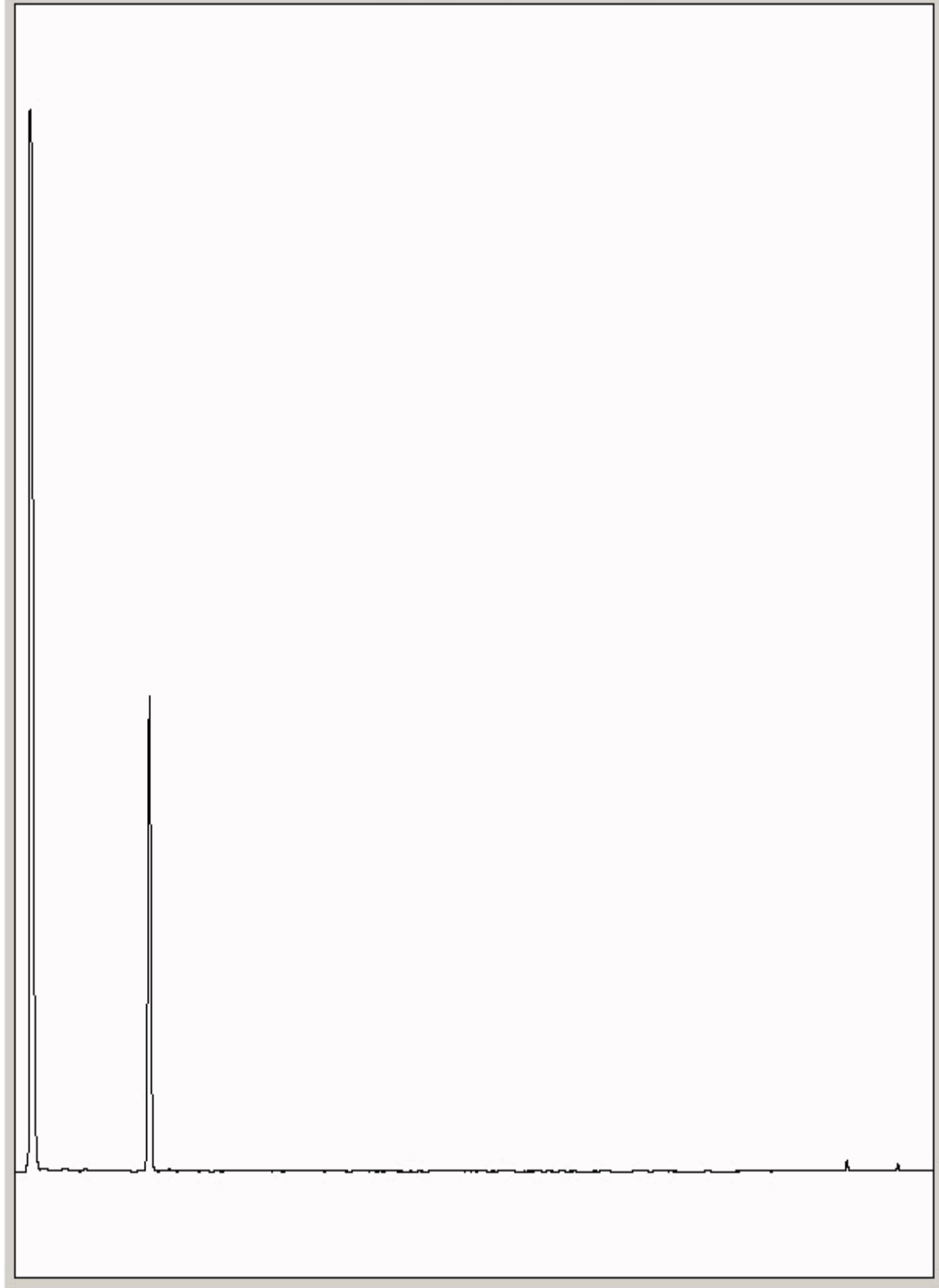
Chromatogram

Analysis: GRO by GC-FID (S)
19266062

Sample No :
Sample ID : BH237

19,266,062Depth :0.00 - 0.50

19266062_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

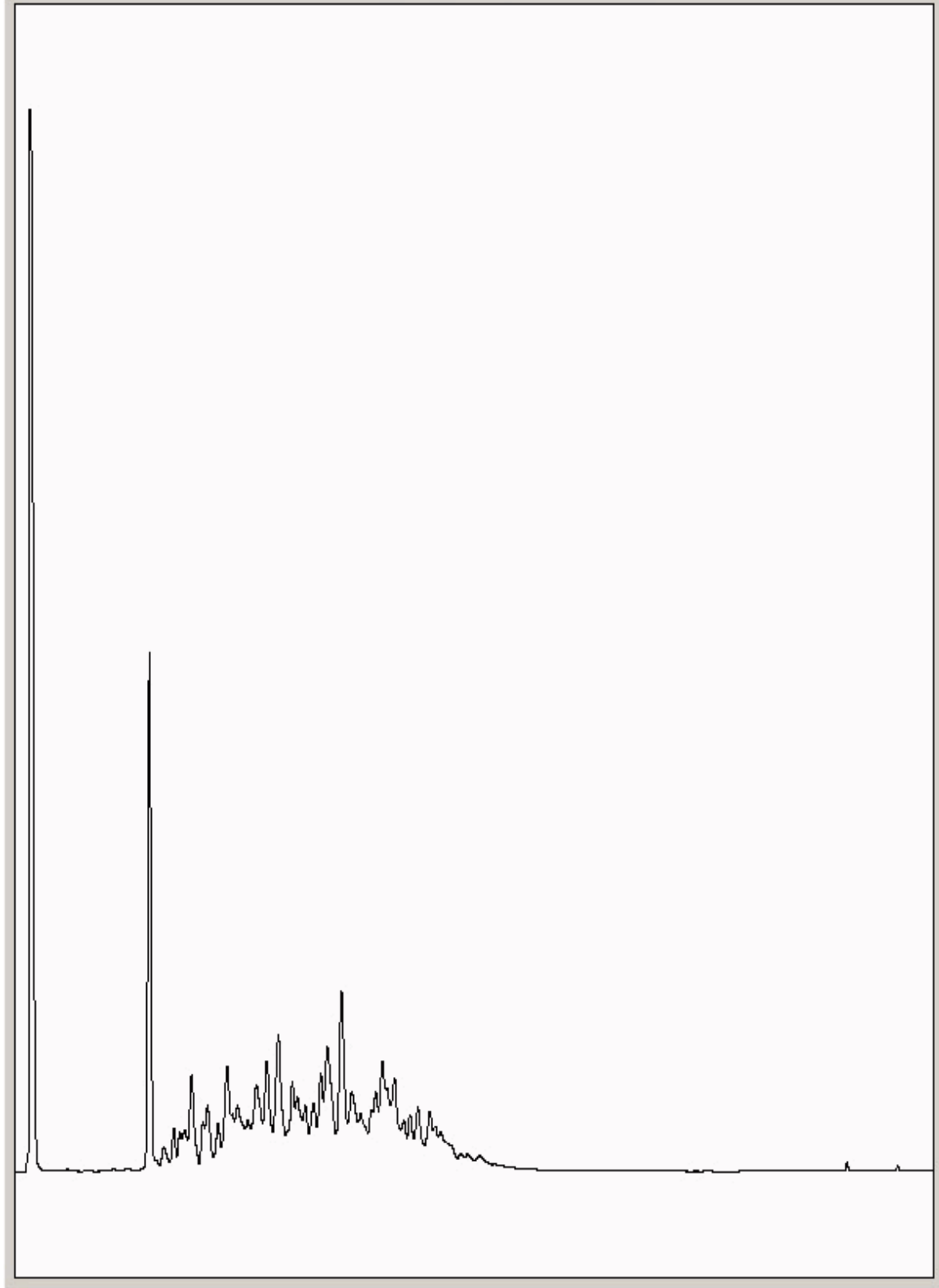
Chromatogram

Analysis: GRO by GC-FID (S)
19266300

Sample No :
Sample ID : BH230

19,266,300Depth :0.50 - 1.00

19266300_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

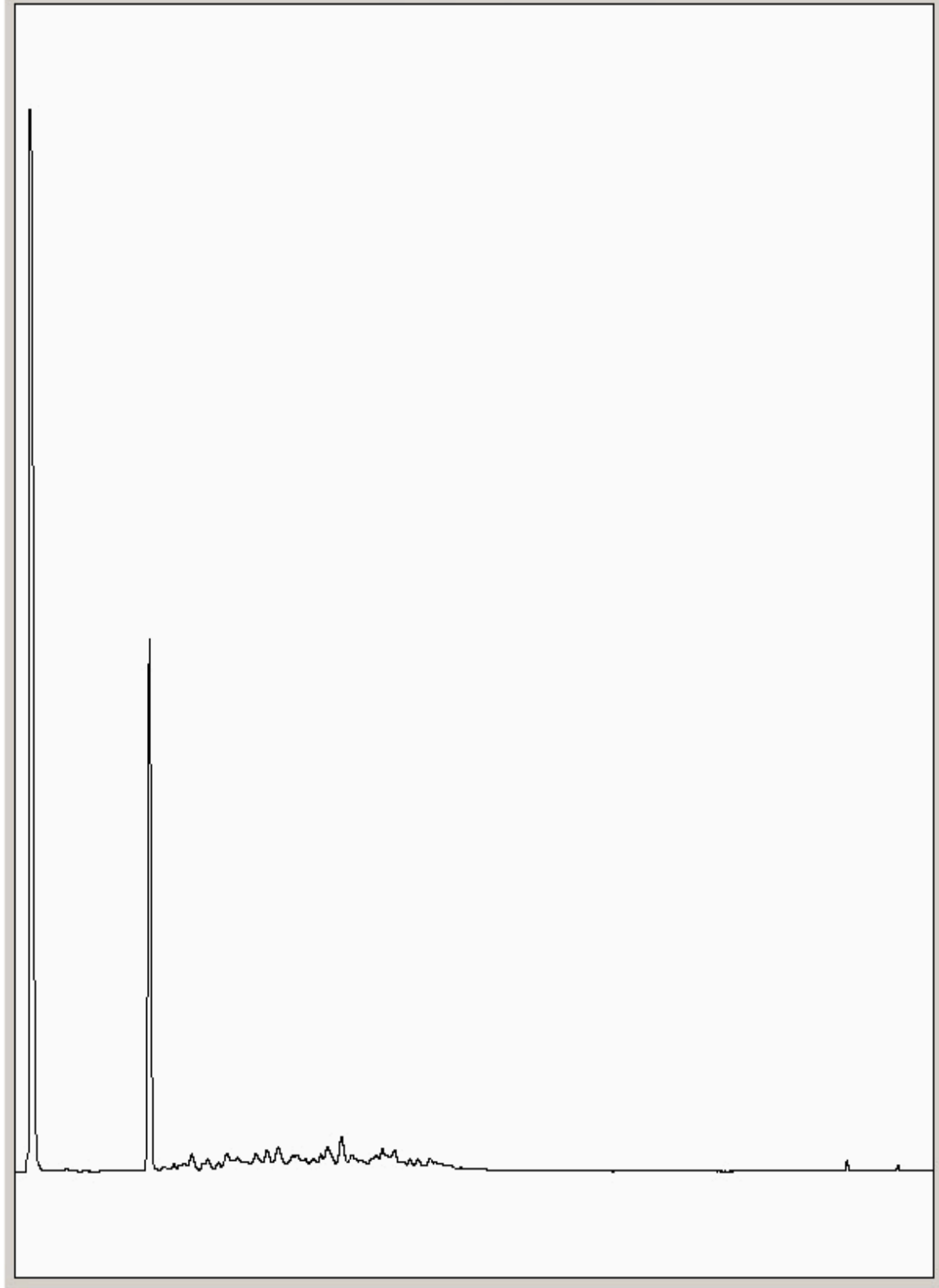
Chromatogram

Analysis: GRO by GC-FID (S)
19266327

Sample No :
Sample ID : BH230

19,266,327 **Depth :** 1.00 - 2.00

19266327_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

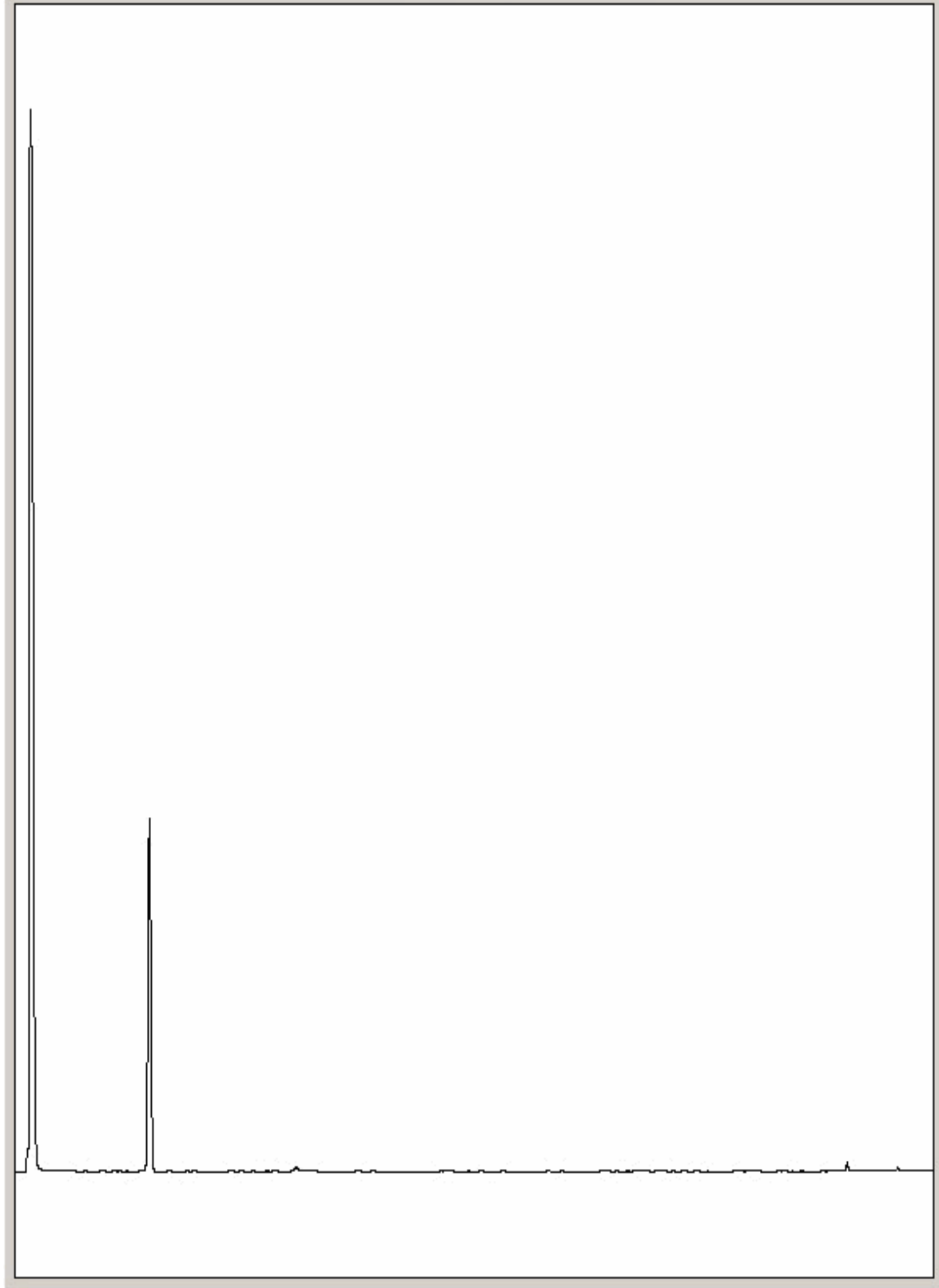
Chromatogram

Analysis: GRO by GC-FID (S)
19266814

Sample No :
Sample ID : BH236

19,266,814 **Depth :** 4.00 - 5.00

19266814_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

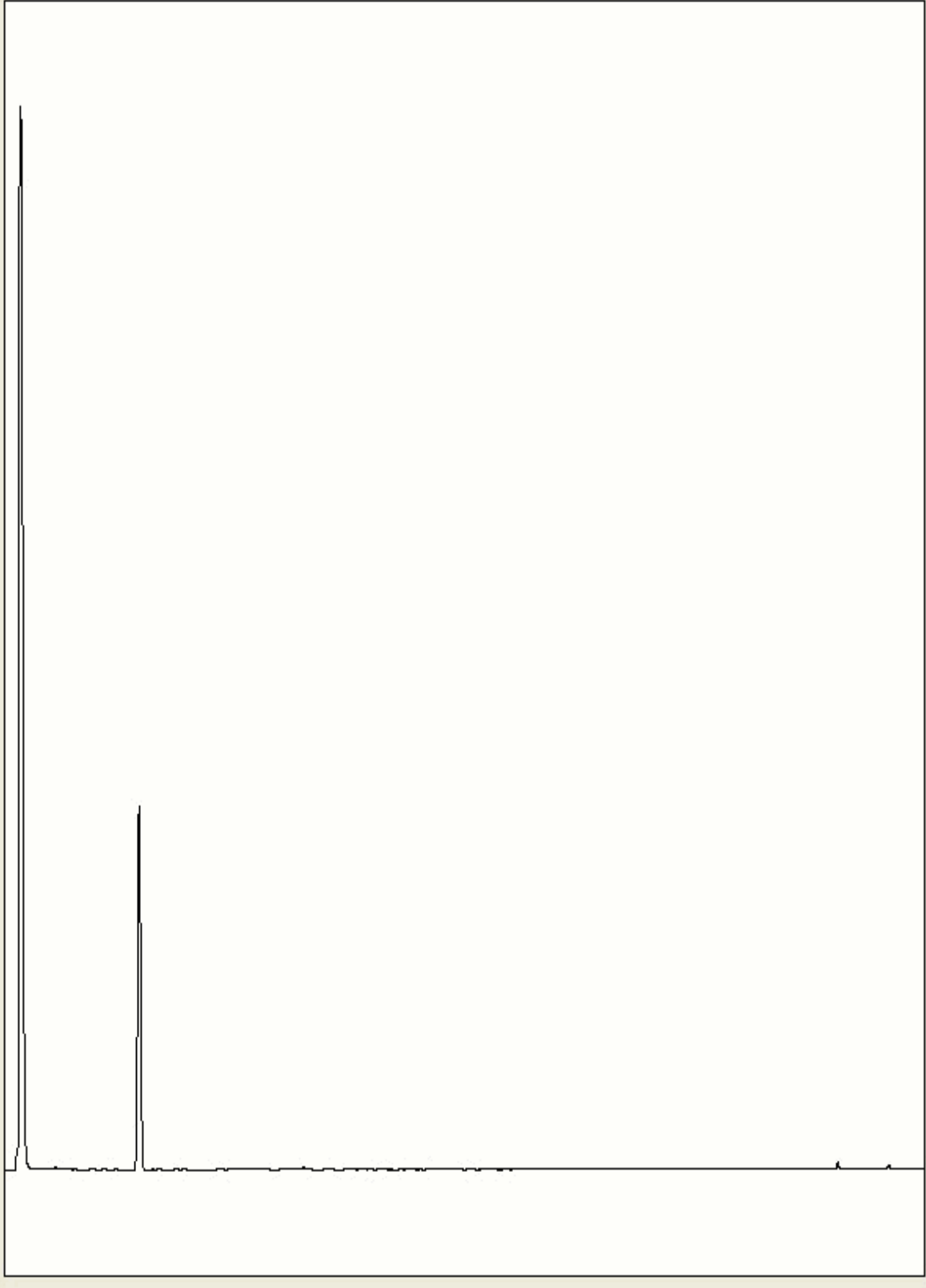
Chromatogram

Analysis: GRO by GC-FID (S)
19267204

Sample No :
Sample ID : BH236

19,267,204**Depth :**2.00 - 3.00

19267204_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

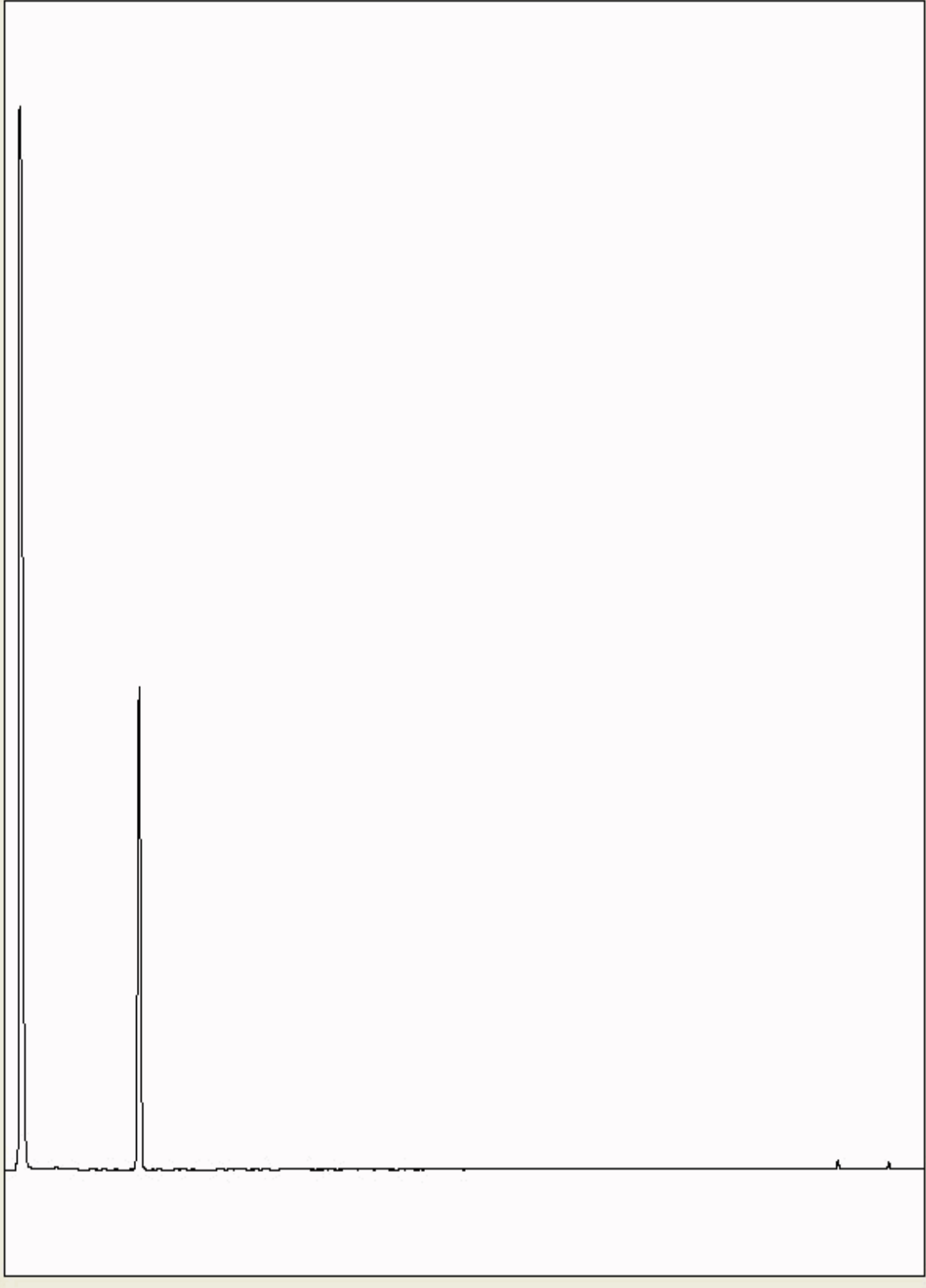
Chromatogram

Analysis: GRO by GC-FID (S)
19267236

Sample No :
Sample ID : BH236

19,267,236**Depth :** 1.00 - 2.00

19267236_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

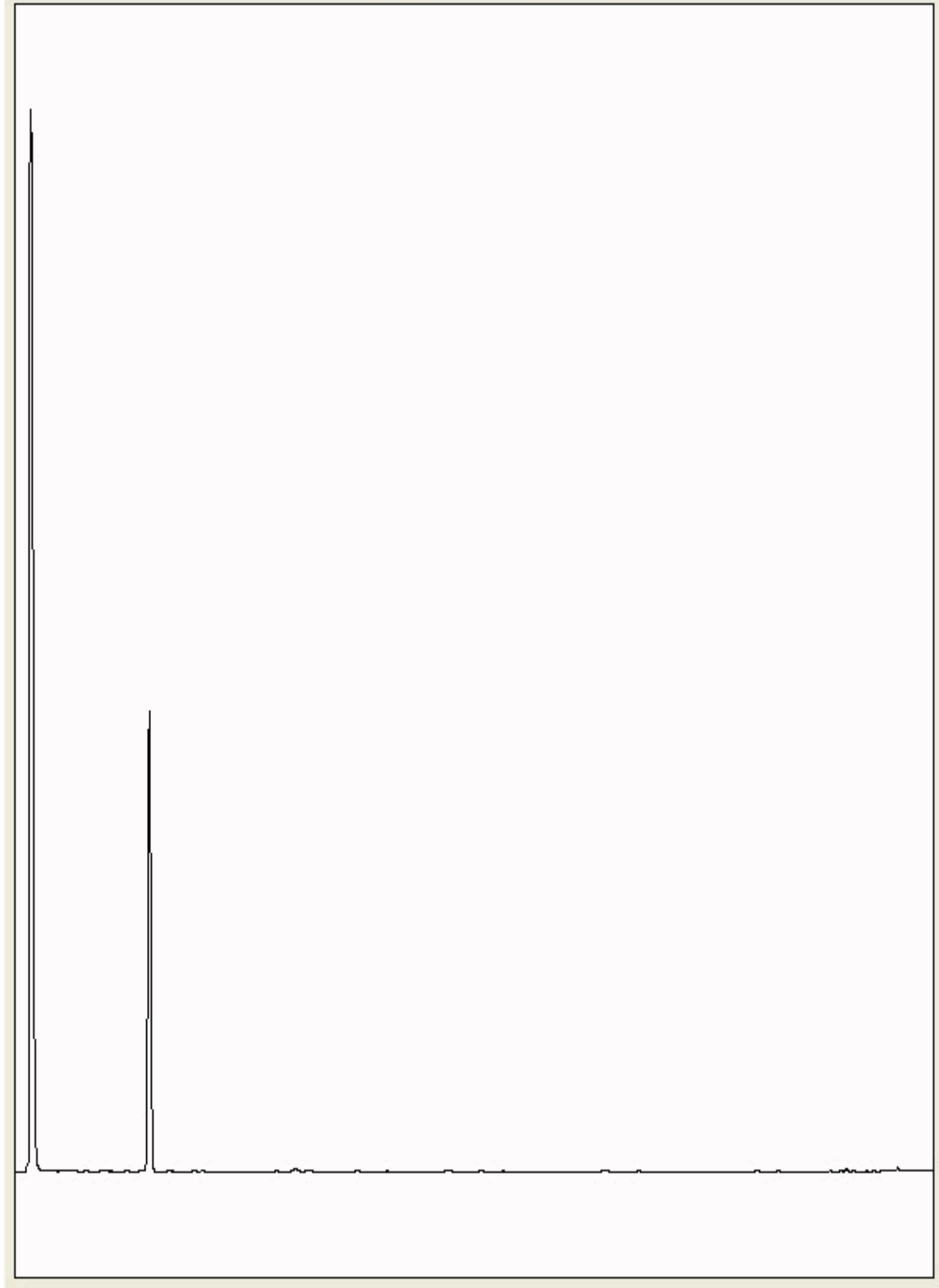
Chromatogram

Analysis: GRO by GC-FID (S)
19267248

Sample No : 19,267,248
Sample ID : BH237

Depth : 9.00 - 10.00

19267248_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

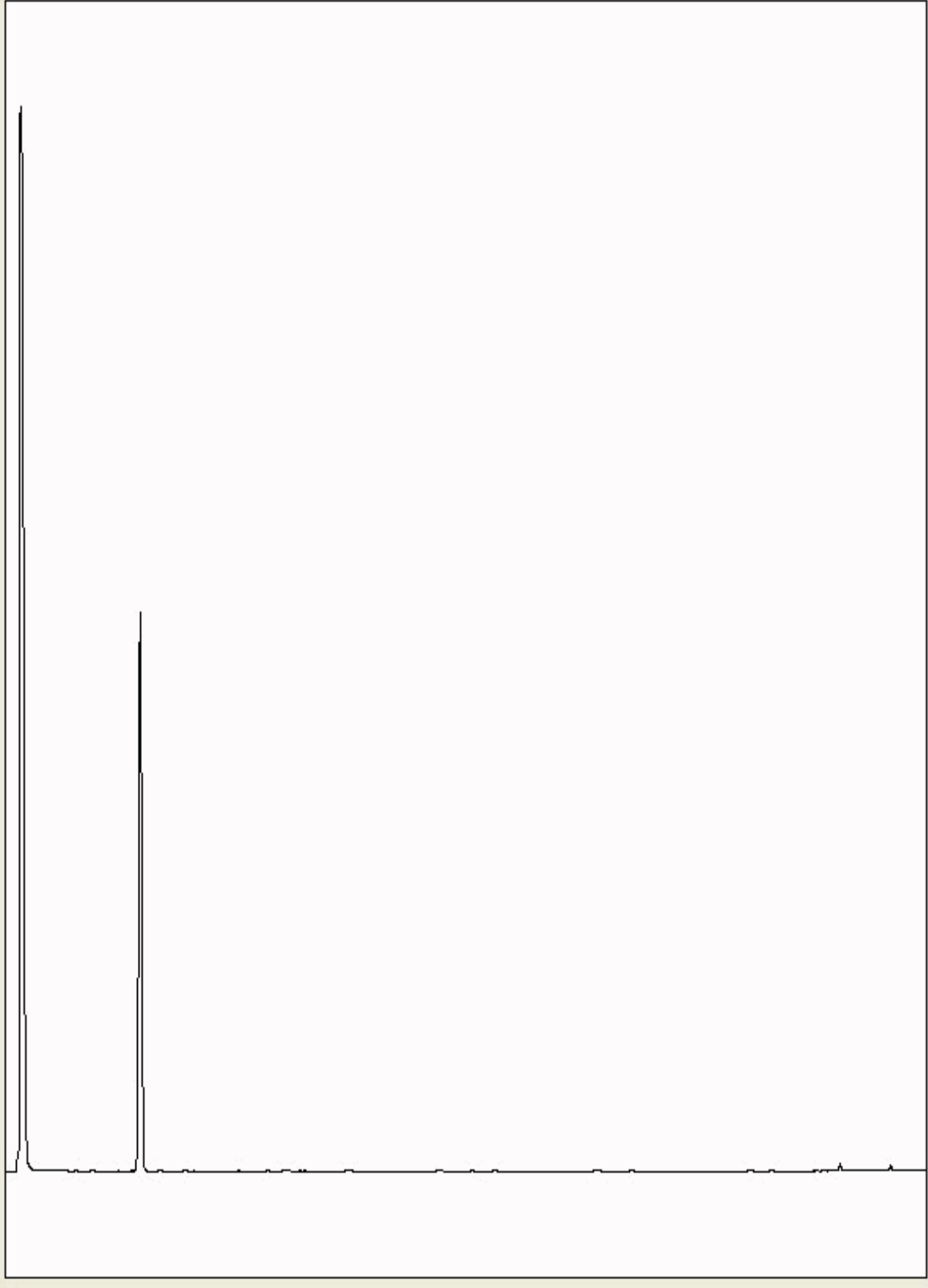
Chromatogram

Analysis: GRO by GC-FID (S)
19267257

Sample No :
Sample ID : BH237

19,267,257Depth :8.00 - 9.00

19267257_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

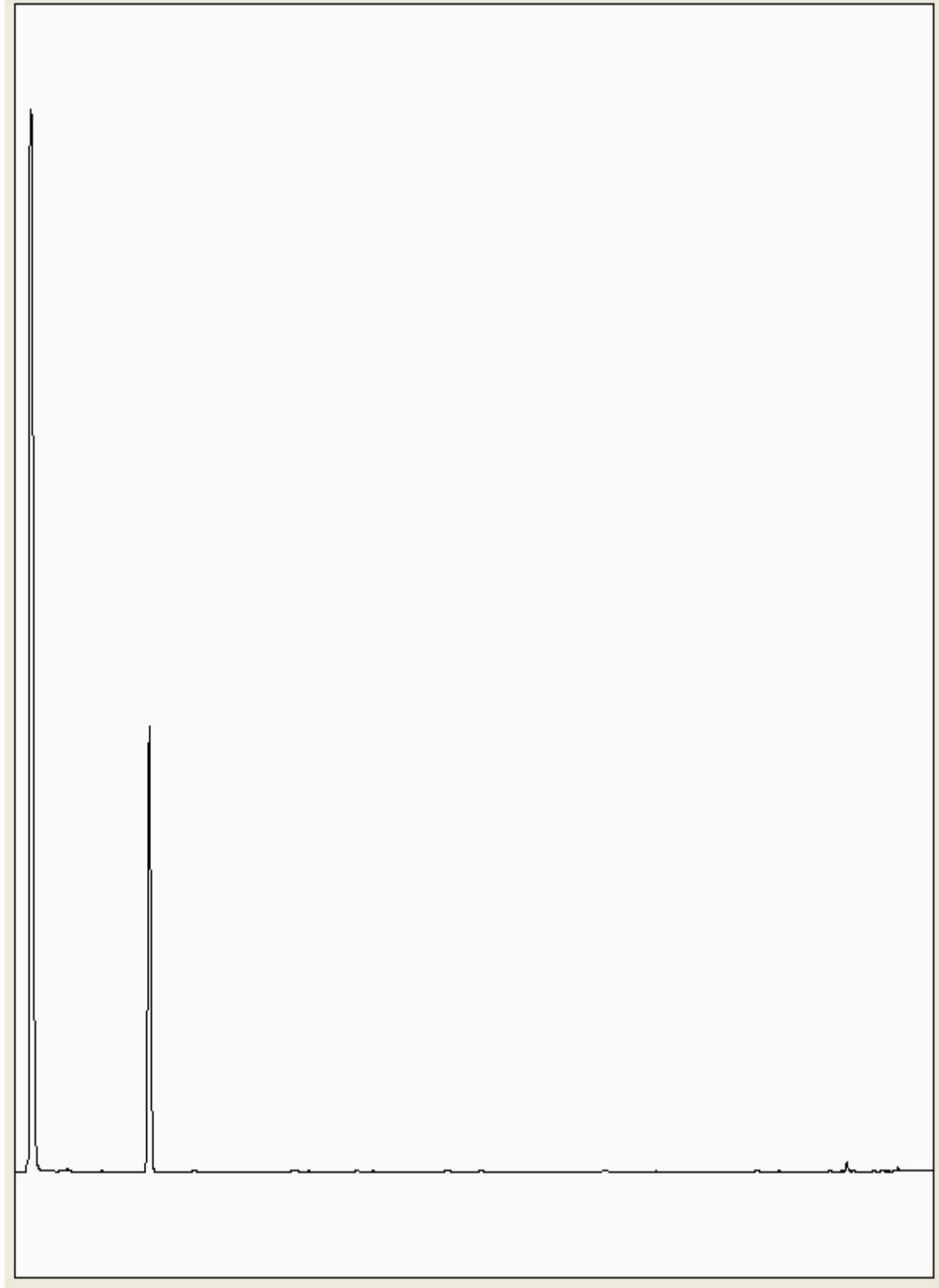
Chromatogram

Analysis: GRO by GC-FID (S)
19267263

Sample No :
Sample ID : BH237

19,267,263 **Depth :** 12.00 - 13.00

19267263_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

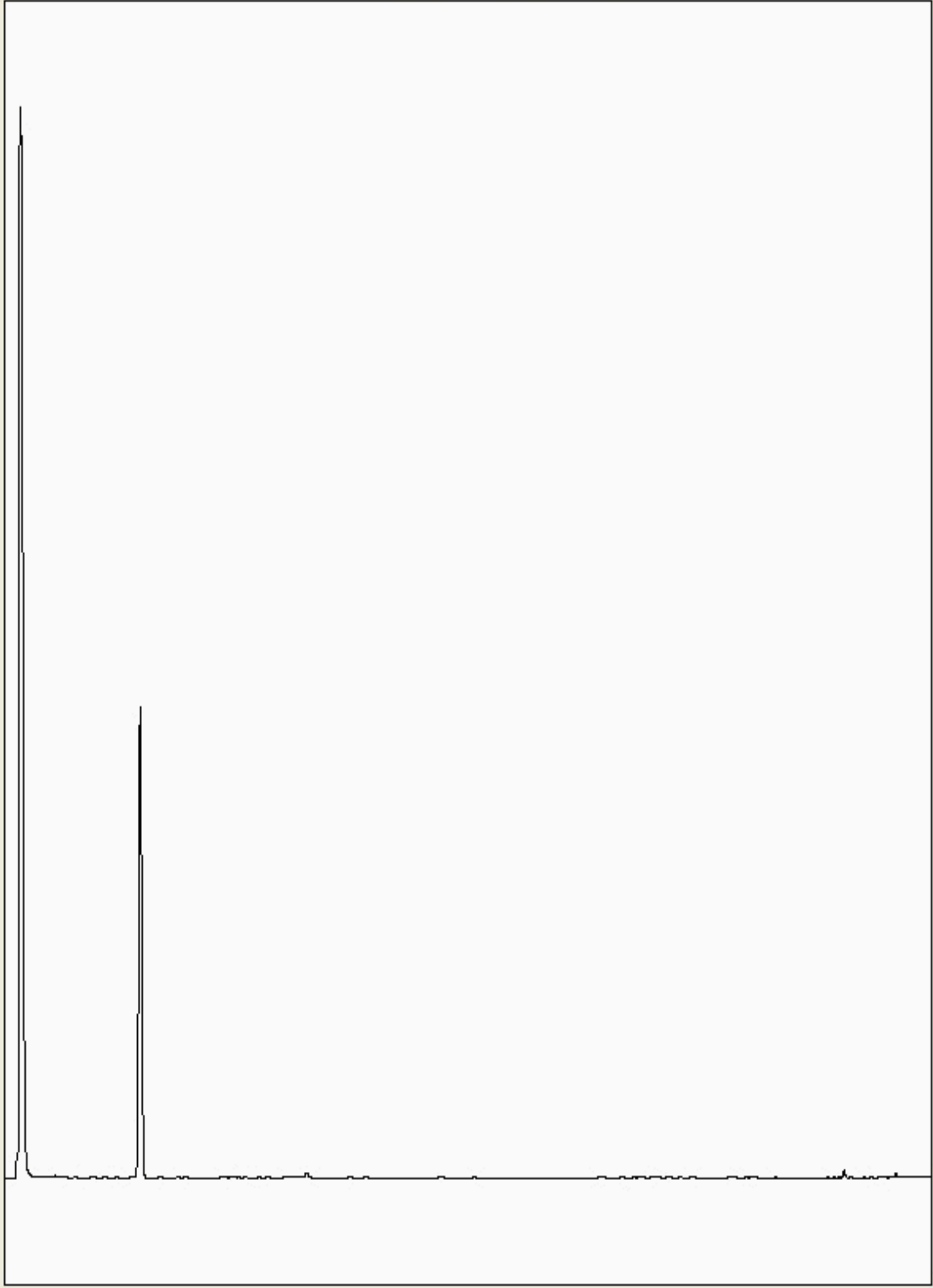
Chromatogram

Analysis: GRO by GC-FID (S)
19267810

Sample No :
Sample ID : BH237

19,267,810 **Depth :** 3.00 - 4.00

19267810_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

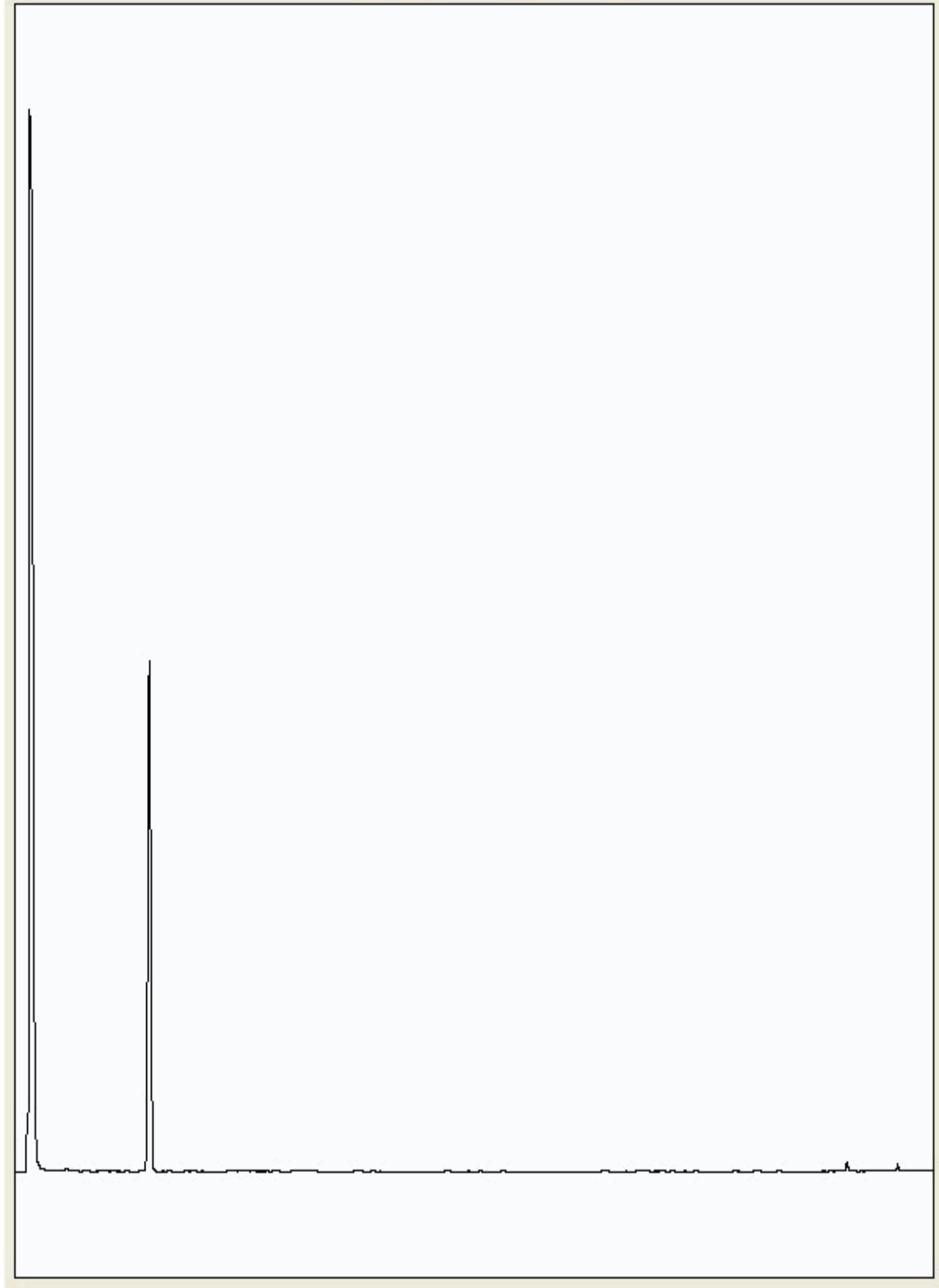
Chromatogram

Analysis: GRO by GC-FID (S)
19267854

Sample No :
Sample ID : BH237

19,267,854 **Depth :** 4.00 - 5.00

19267854_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

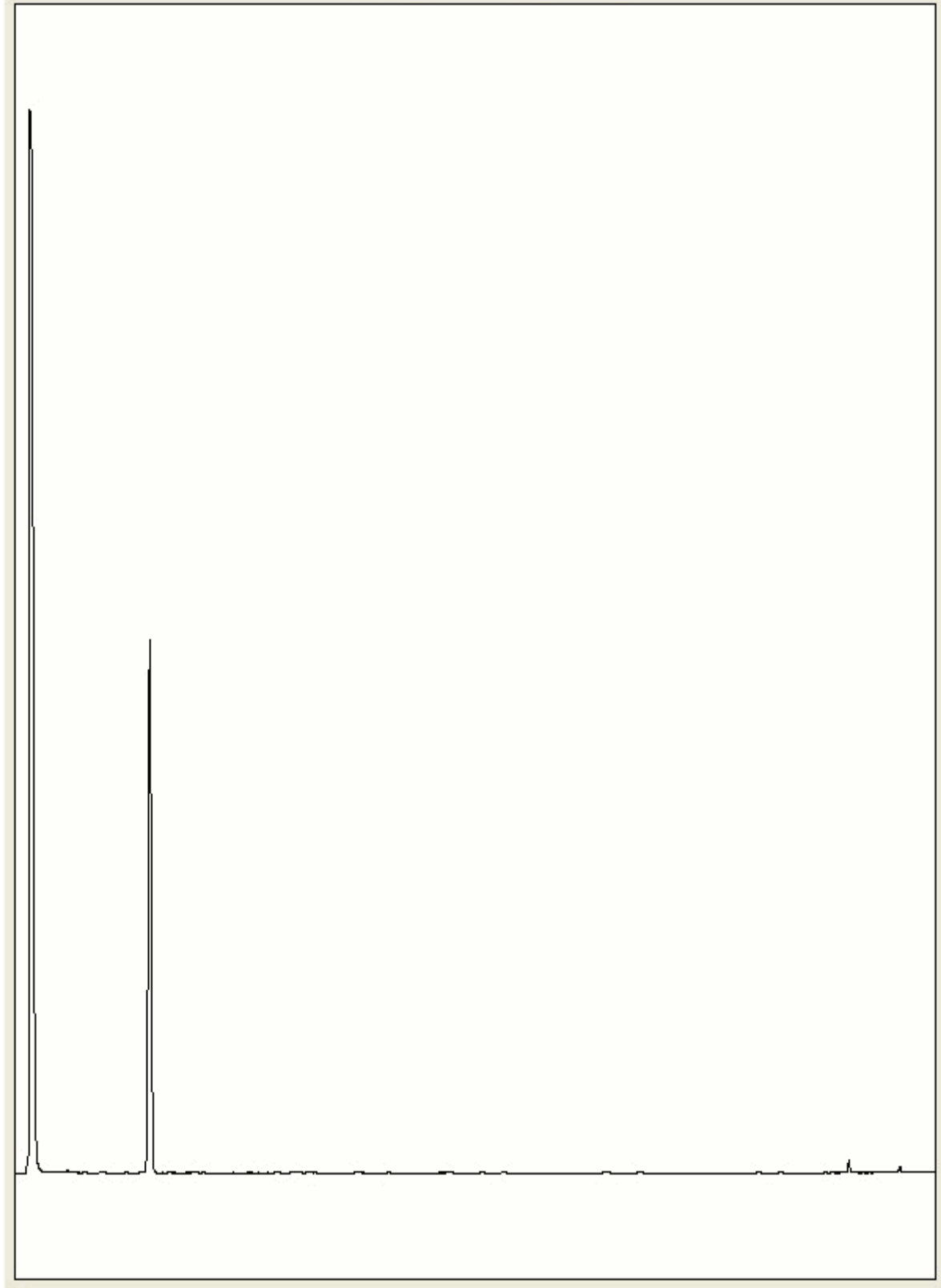
Chromatogram

Analysis: GRO by GC-FID (S)
19267873

Sample No :
Sample ID : BH238

19,267,873 **Depth :** 11.00 - 12.00

19267873_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

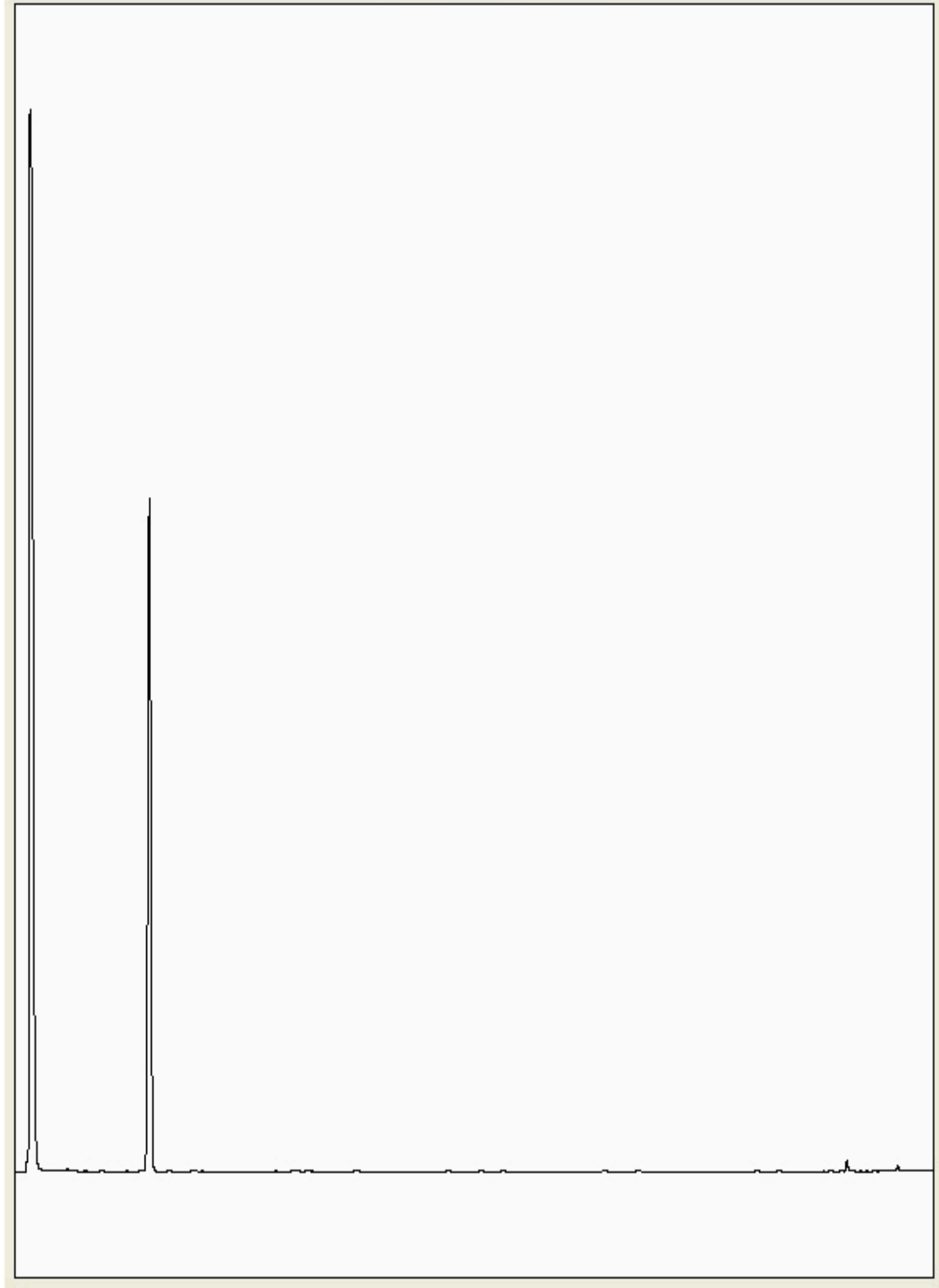
Chromatogram

Analysis: GRO by GC-FID (S)
19268090

Sample No :
Sample ID : BH238

19,268,090**Depth :**9.00 - 10.00

19268090_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

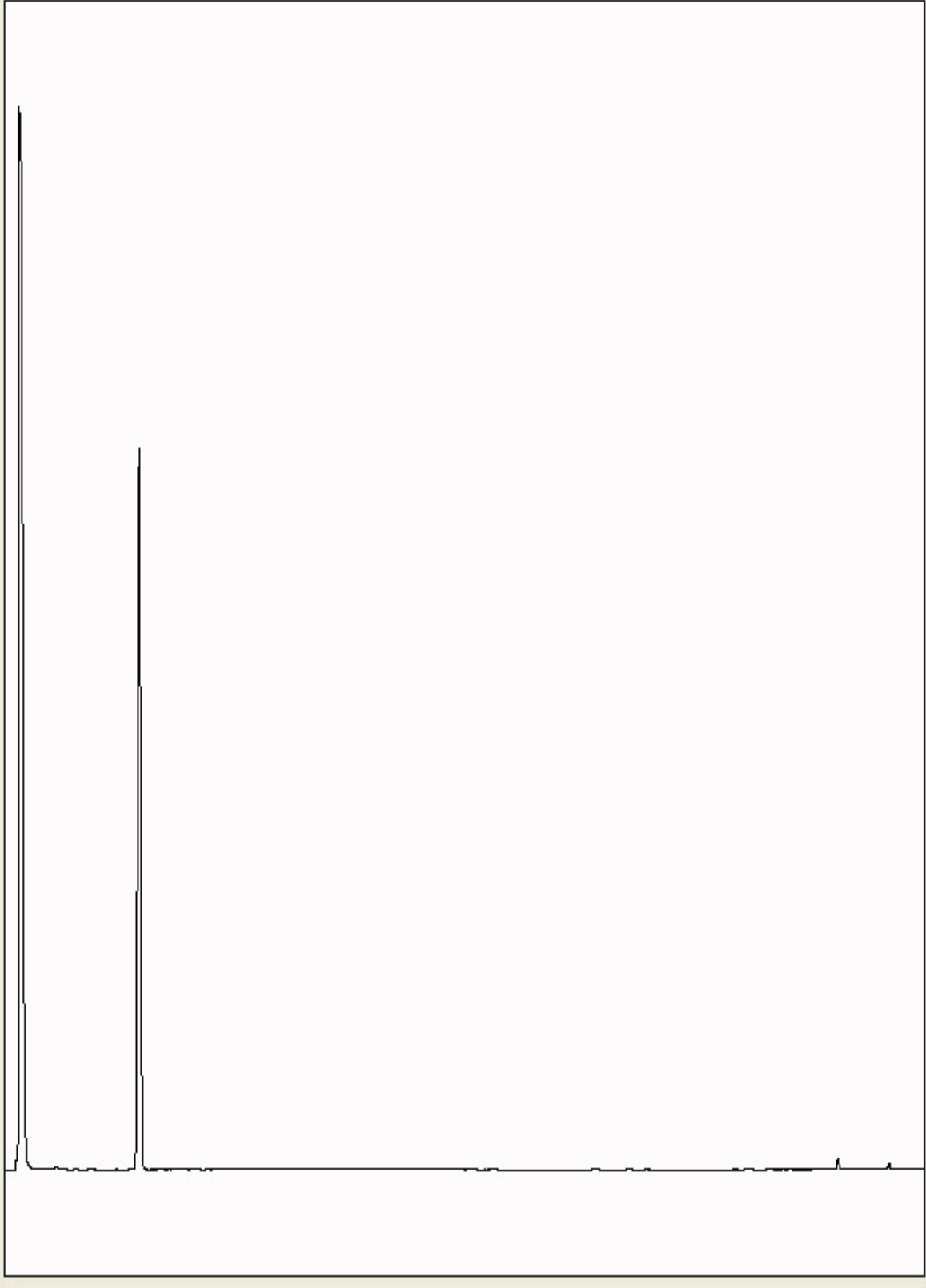
Chromatogram

Analysis: GRO by GC-FID (S)
19268152

Sample No :
Sample ID : BH231

19,268,152 **Depth :** 12.00 - 13.00

19268152_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

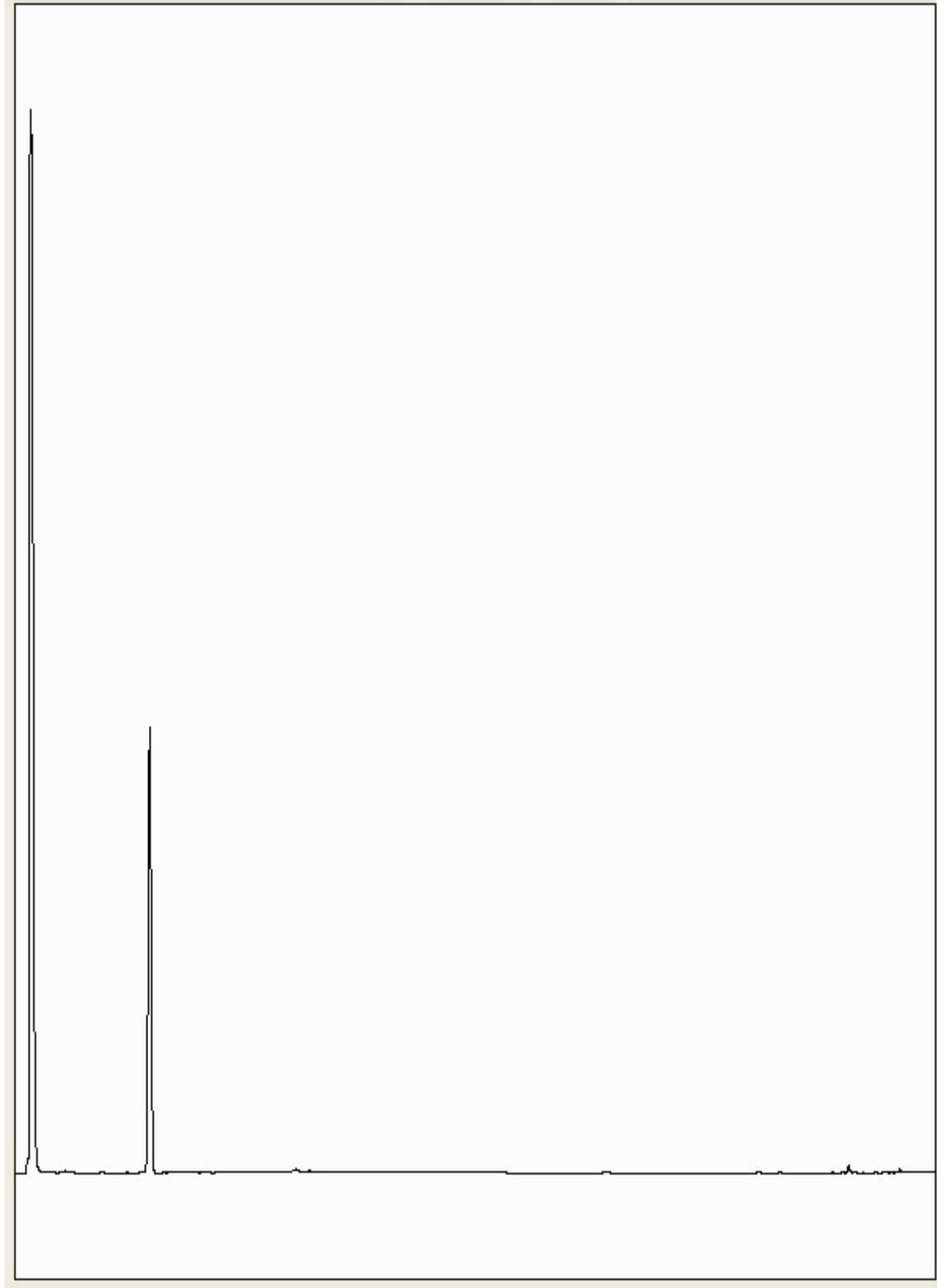
Chromatogram

Analysis: GRO by GC-FID (S)
19268226

Sample No :
Sample ID : BH231

19,268,226**Depth :** 10.00 - 11.00

19268226_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19268236

Sample No :
Sample ID : BH237

19,268,236**Depth :** 1.00 - 2.00

19268236_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

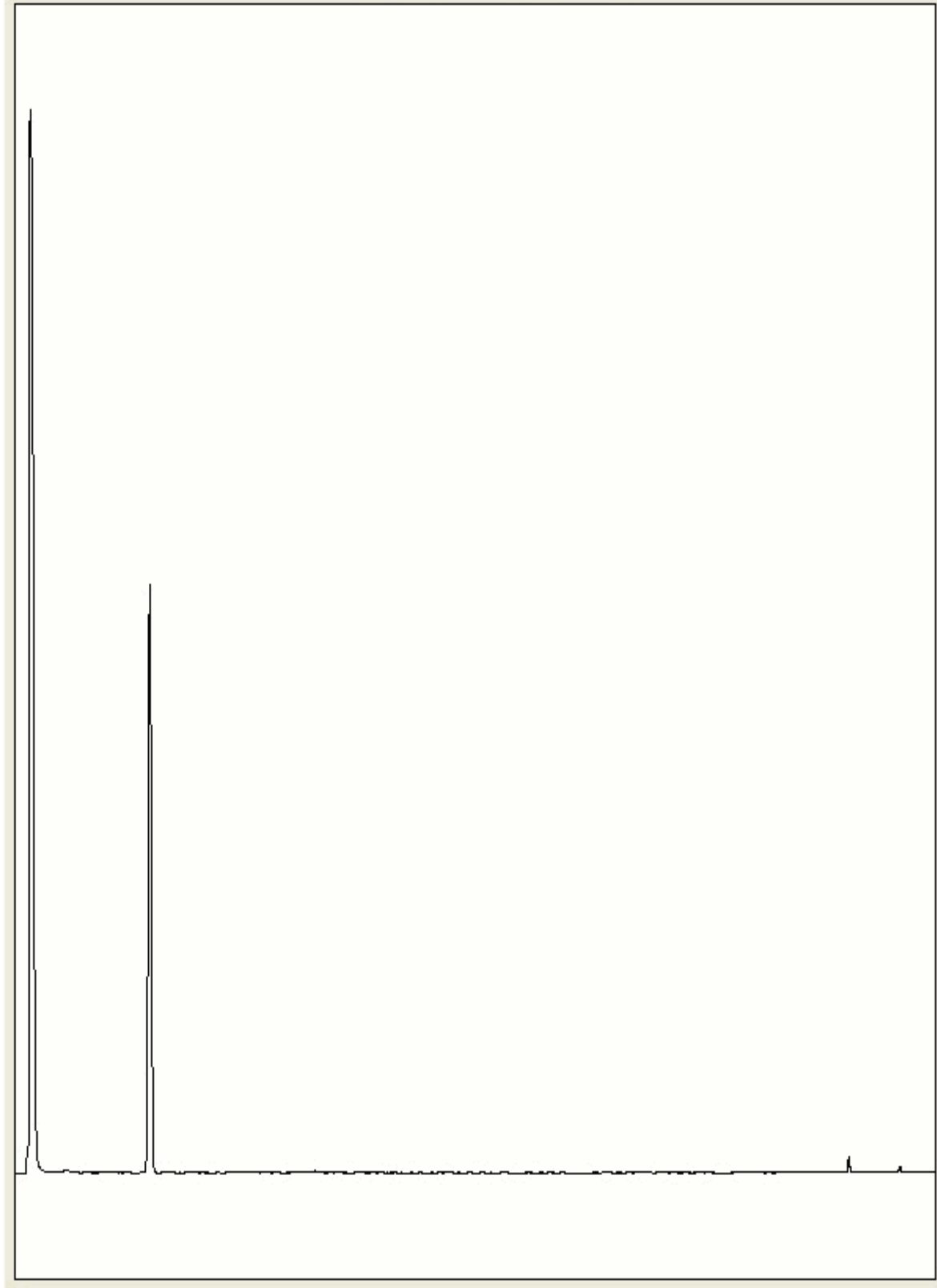
Chromatogram

Analysis: GRO by GC-FID (S)
19271464

Sample No :
Sample ID : BH237

19,271,464**Depth :**6.00 - 7.00

19271464_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

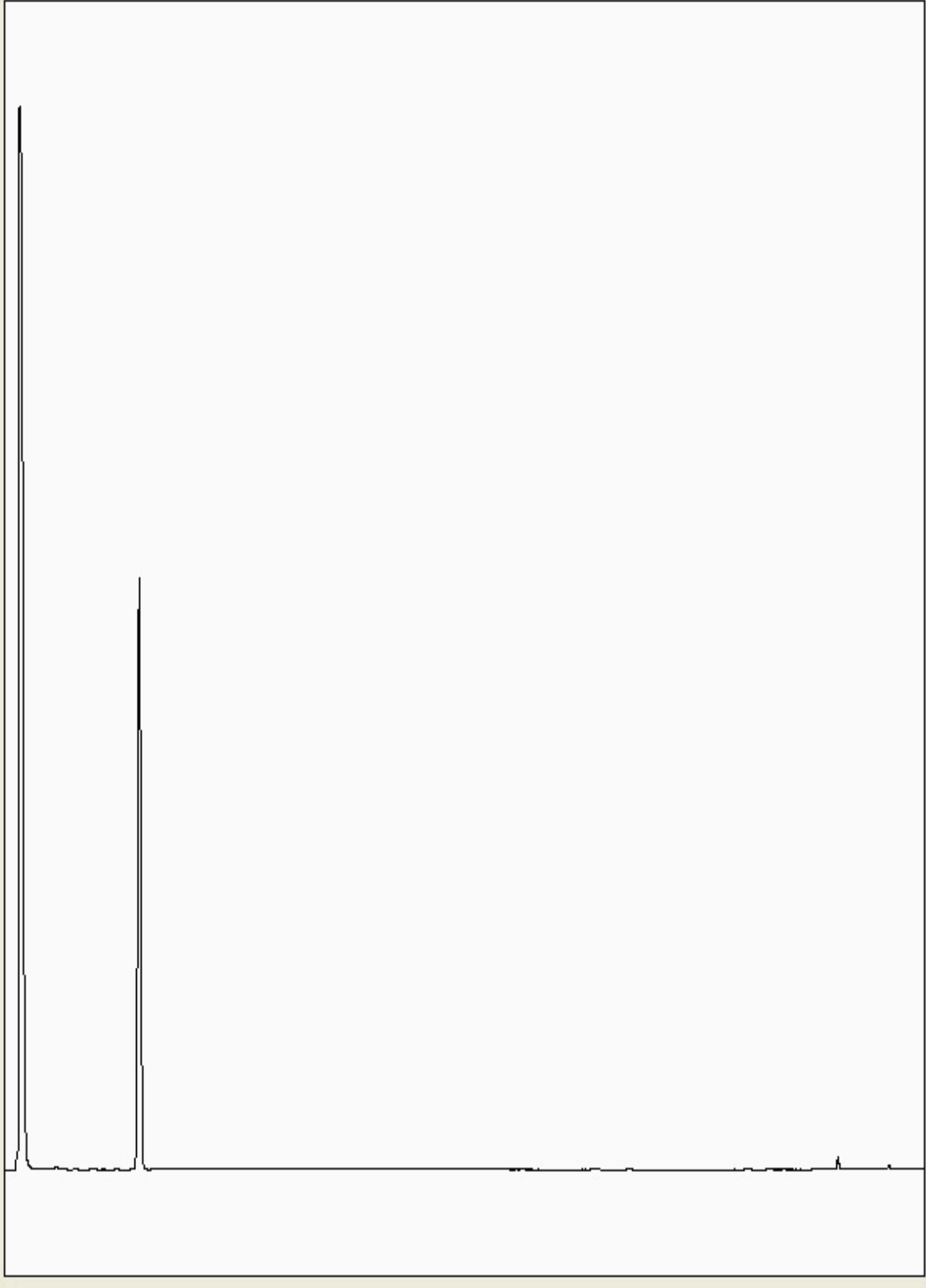
Chromatogram

Analysis: GRO by GC-FID (S)
19271508

Sample No :
Sample ID : BH231

19,271,508 **Depth :** 9.00 - 10.00

19271508_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

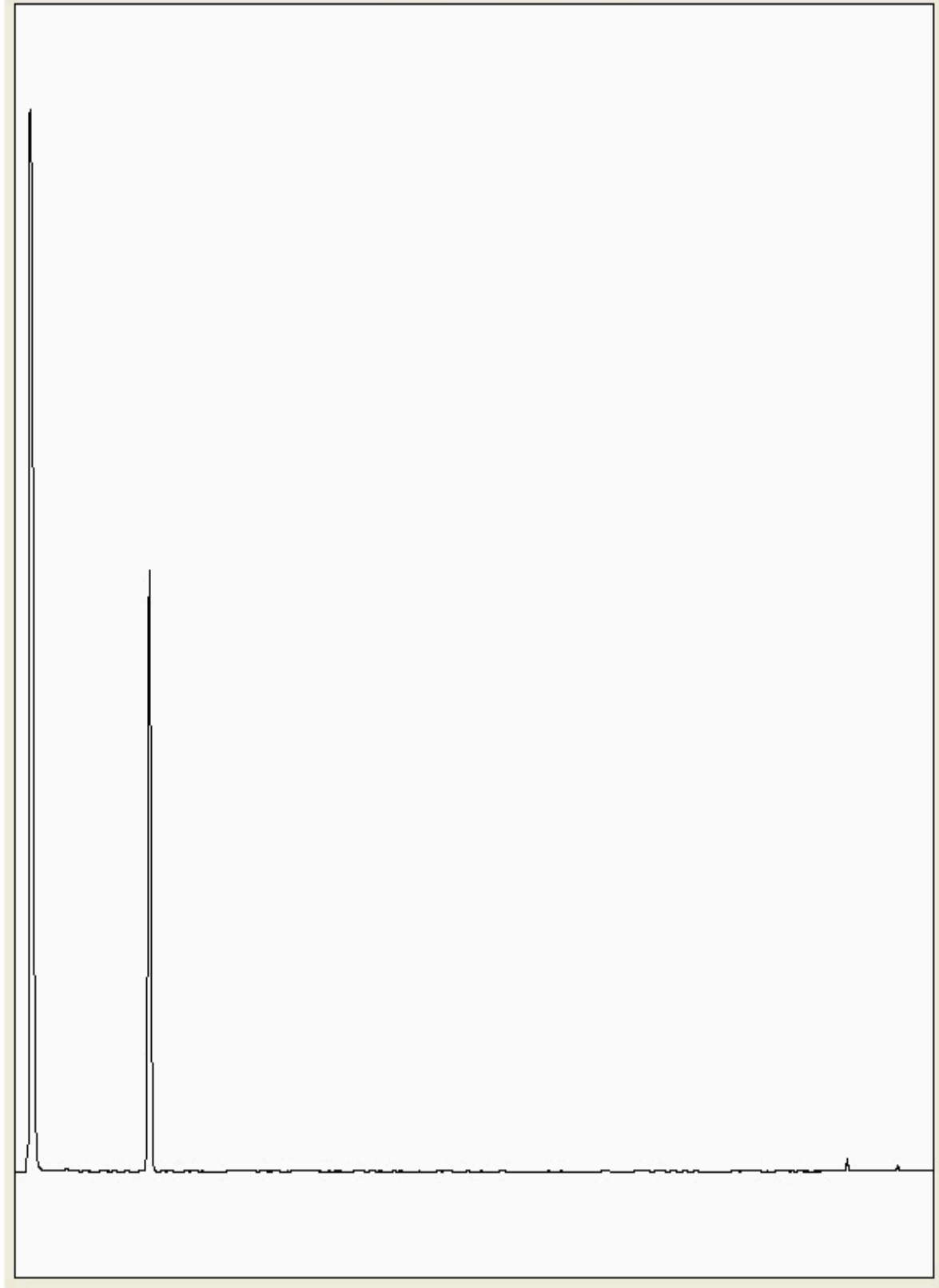
Chromatogram

Analysis: GRO by GC-FID (S)
19271881

Sample No :
Sample ID : BH237

19,271,881 **Depth :** 5.00 - 6.00

19271881_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

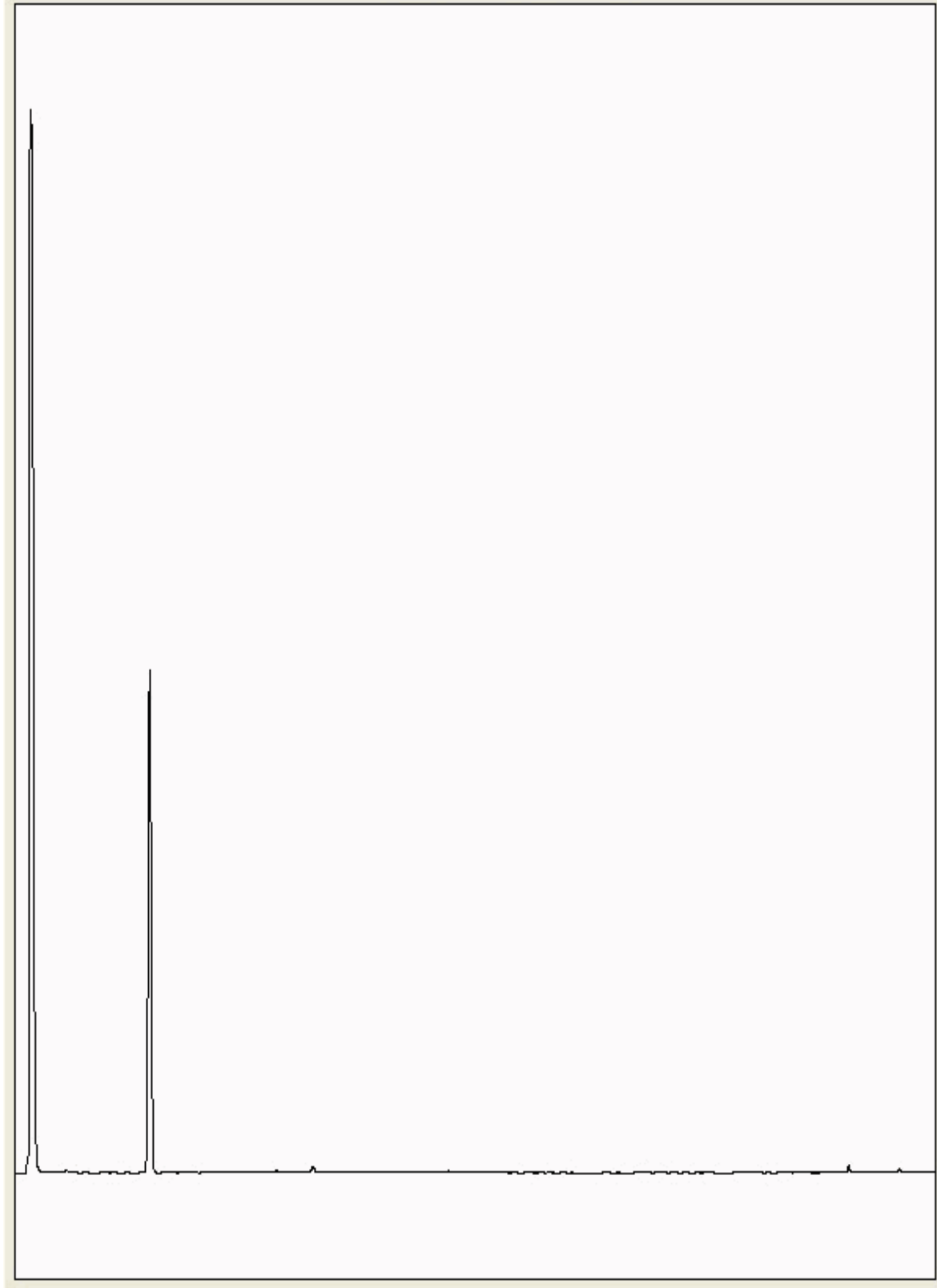
Chromatogram

Analysis: GRO by GC-FID (S)
19275115

Sample No :
Sample ID : BH238

19,275,115 **Depth :** 6.00 - 7.00

19275115_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

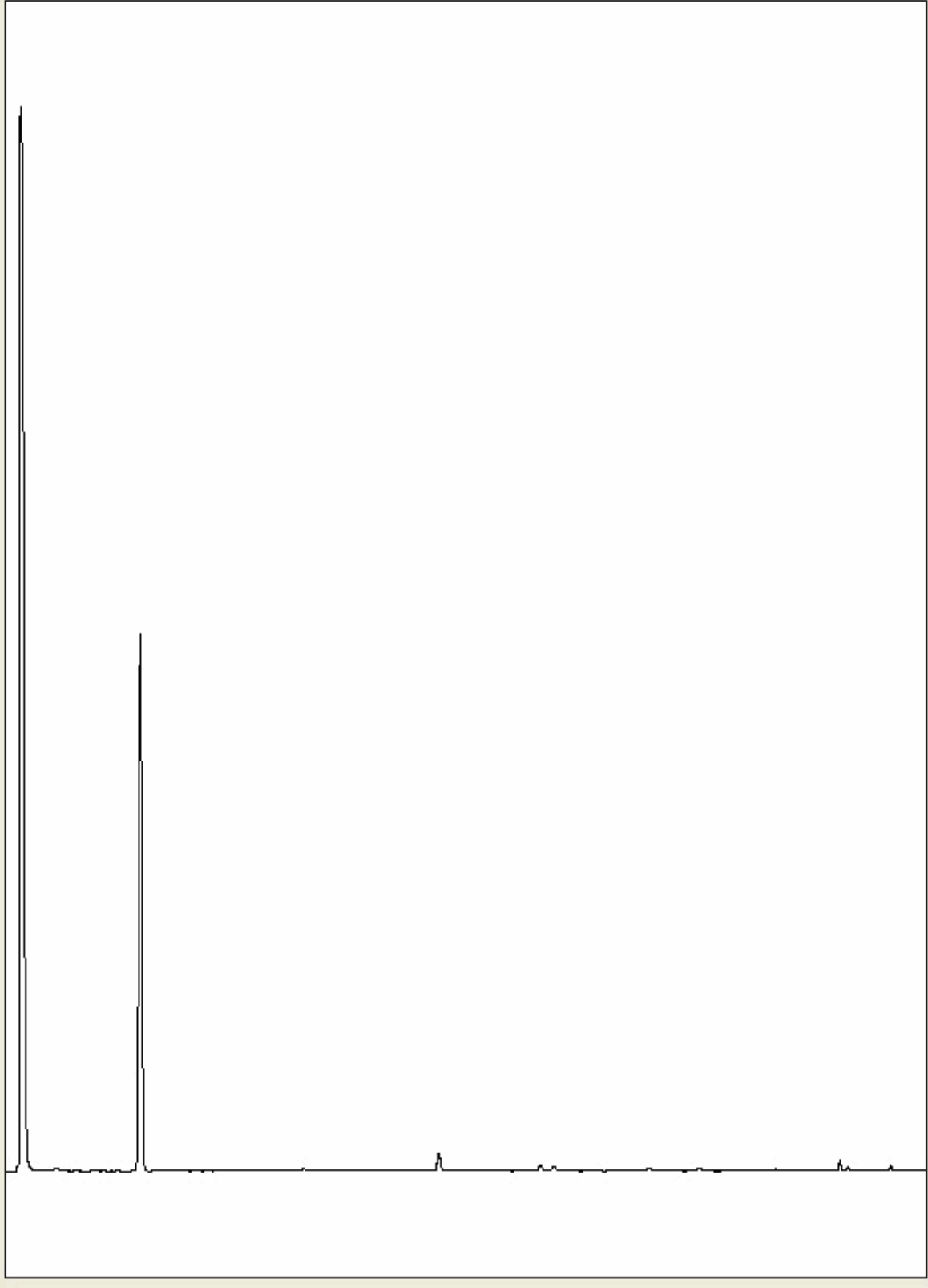
Chromatogram

Analysis: GRO by GC-FID (S)
19275126

Sample No :
Sample ID : BH231

19,275,126Depth :0.00 - 0.50

19275126_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

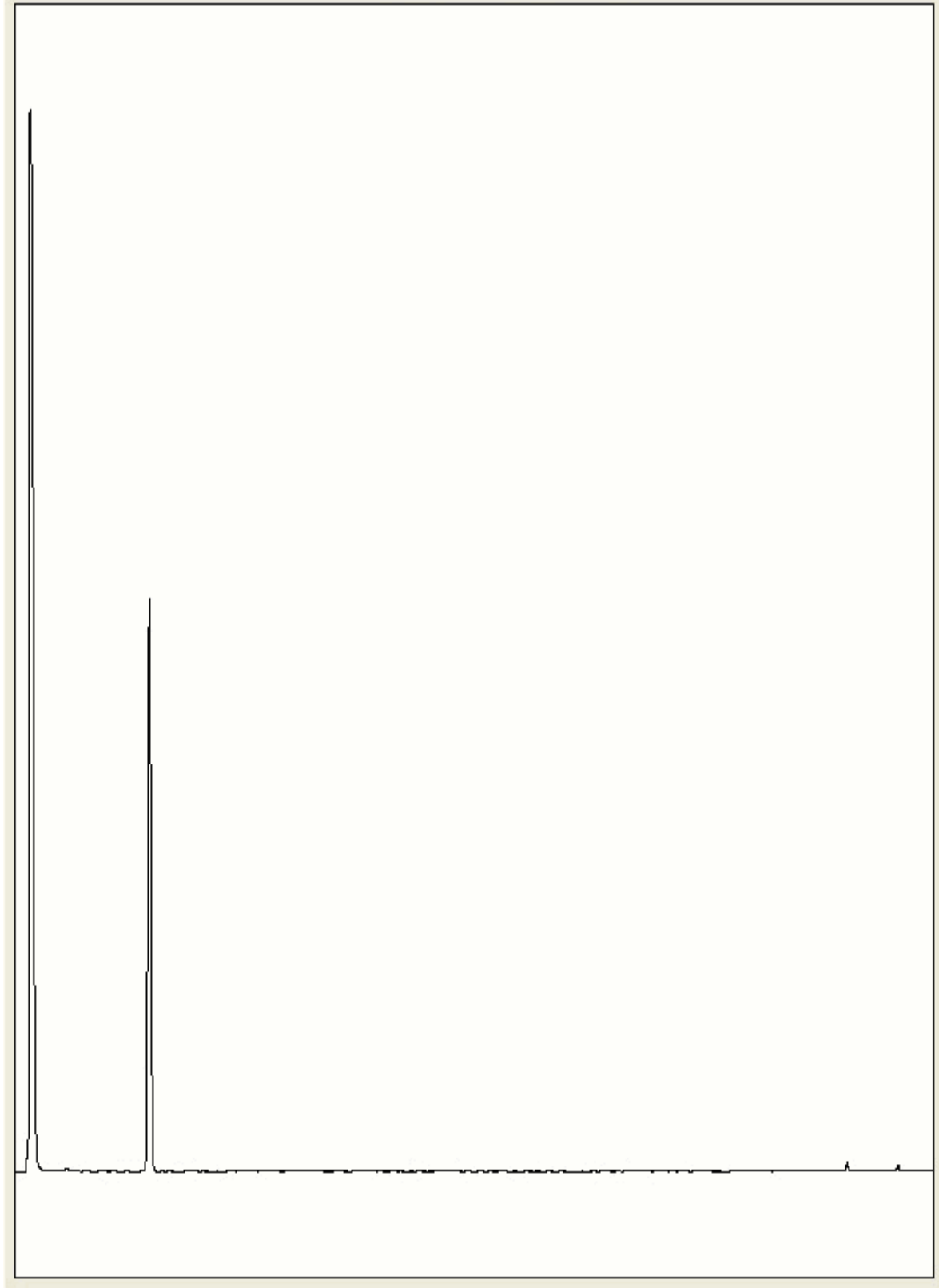
Chromatogram

Analysis: GRO by GC-FID (S)
19275137

Sample No :
Sample ID : BH236

19,275,137Depth :5.00 - 6.00

19275137_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19275153

Sample No :
Sample ID : BH236

19,275,153 **Depth :** 13.00 - 14.00

19275153_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

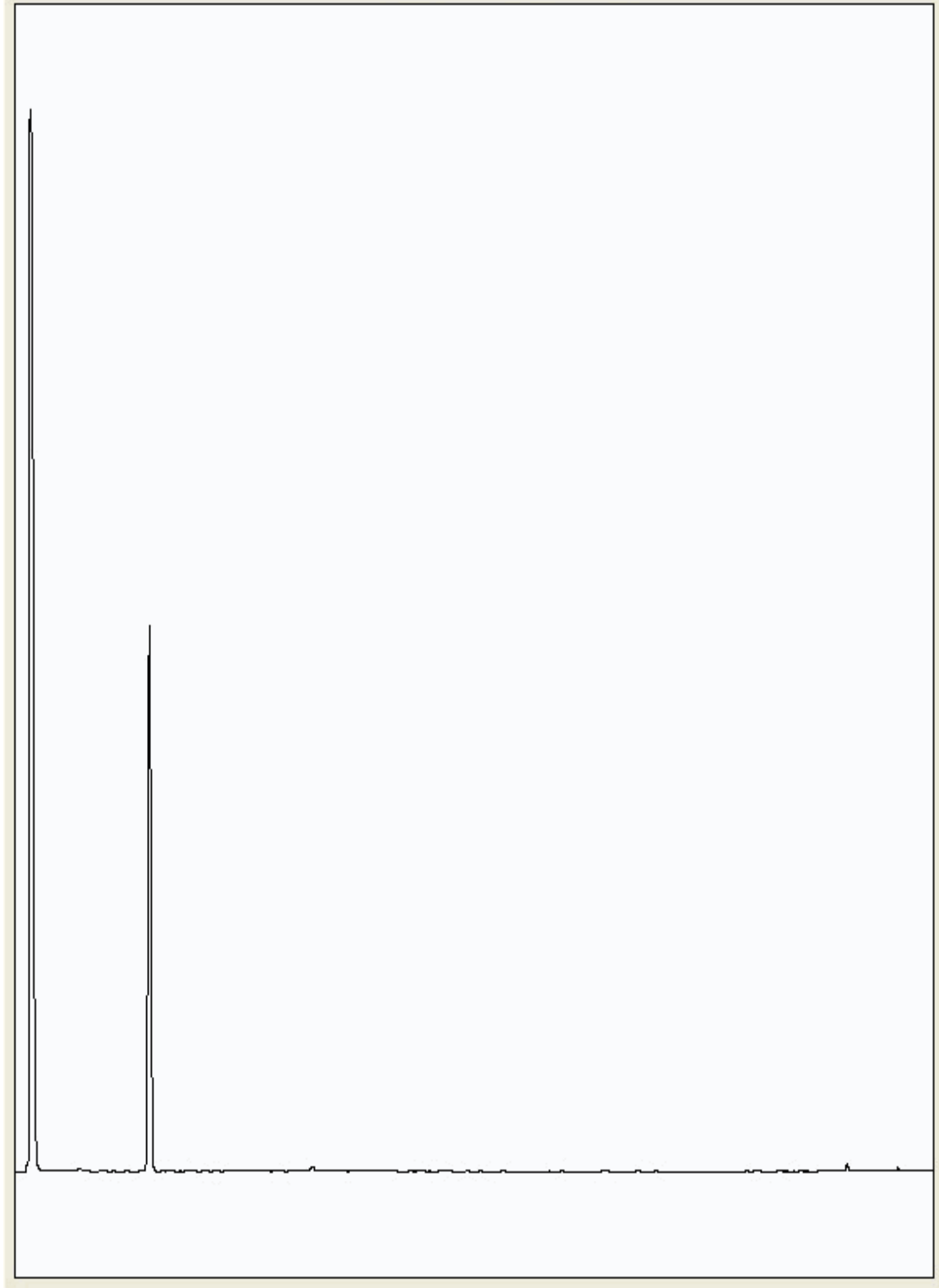
Chromatogram

Analysis: GRO by GC-FID (S)
19275179

Sample No :
Sample ID : BH238

19,275,179Depth :5.00 - 6.00

19275179_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

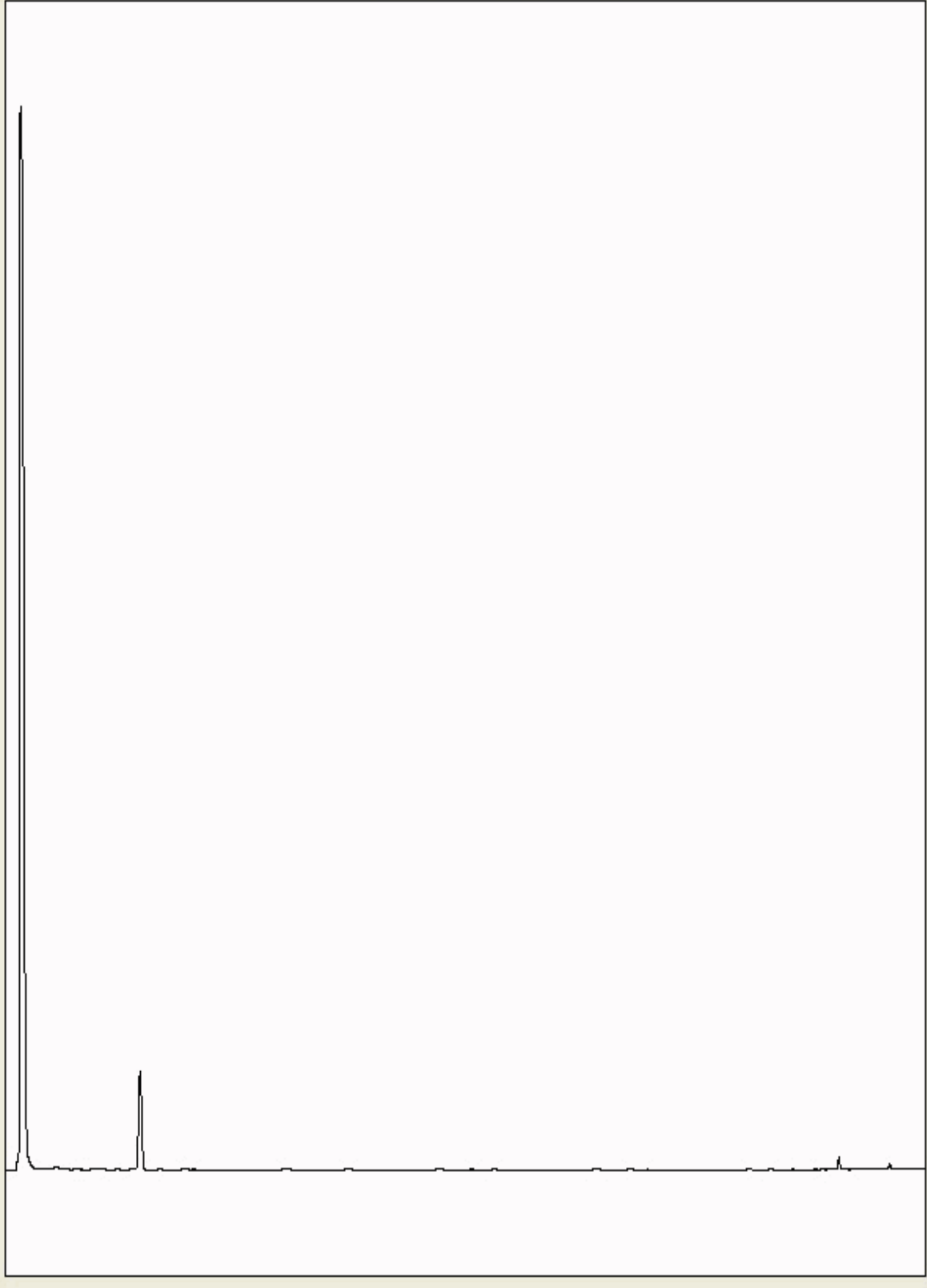
Chromatogram

Analysis: GRO by GC-FID (S)
19275208

Sample No :
Sample ID : BH236

19,275,208 **Depth :** 15.00 - 16.00

19275208_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

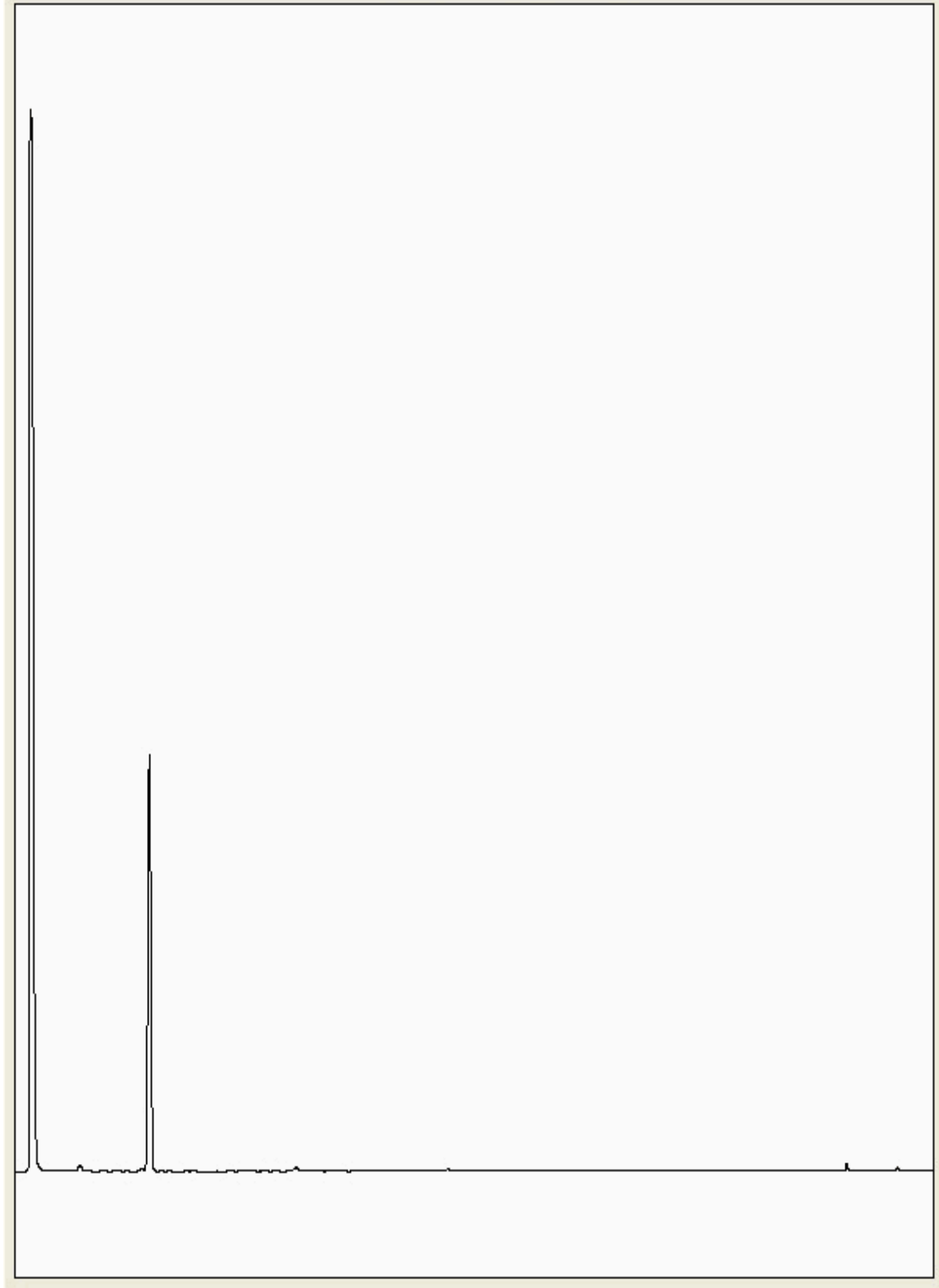
Chromatogram

Analysis: GRO by GC-FID (S)
19275353

Sample No :
Sample ID : BH236

19,275,353Depth :0.50 - 1.00

19275353_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

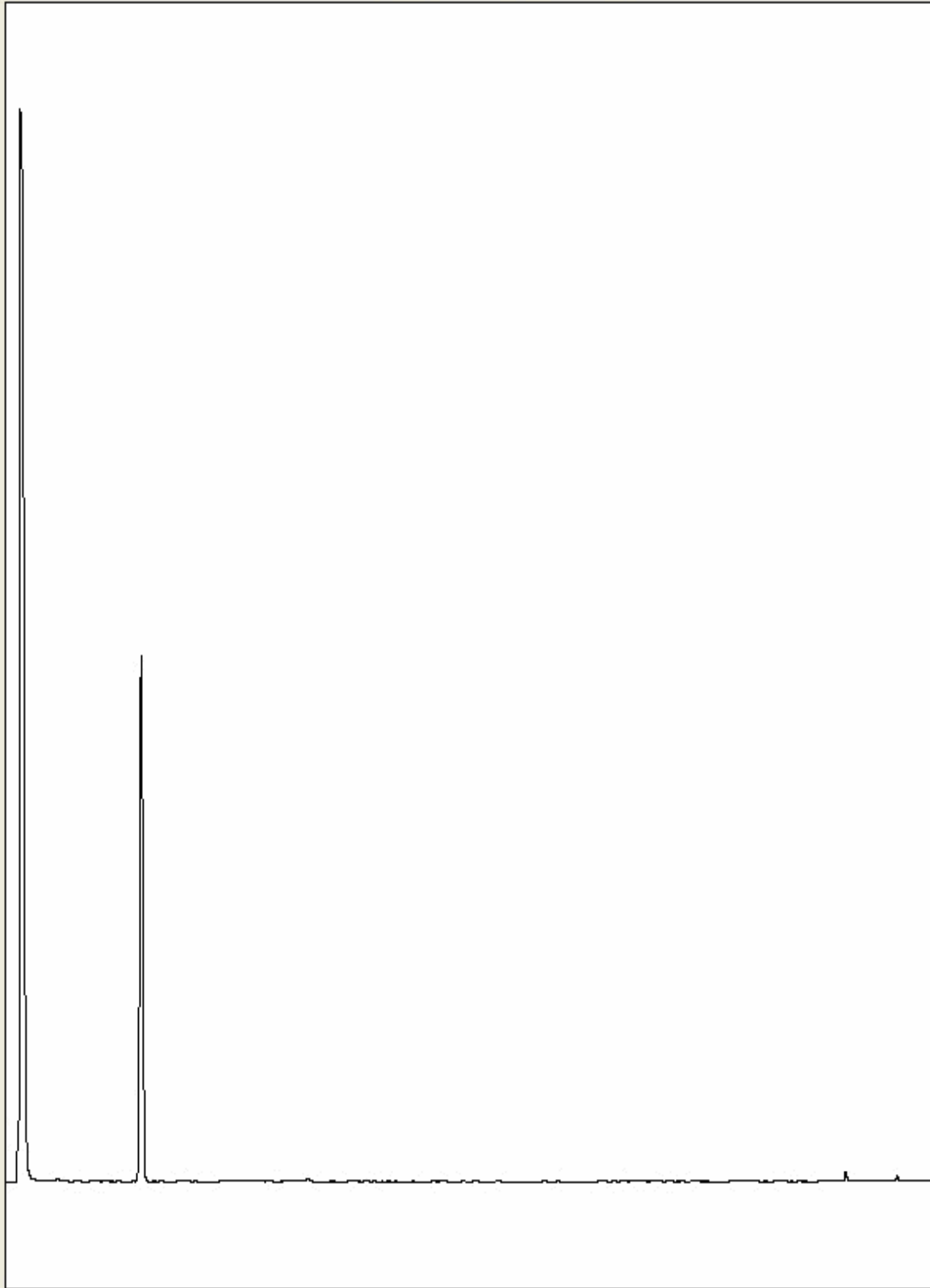
Chromatogram

Analysis: GRO by GC-FID (S)
19275385

Sample No :
Sample ID : BH237

19,275,385Depth :2.00 - 3.00

19275385_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

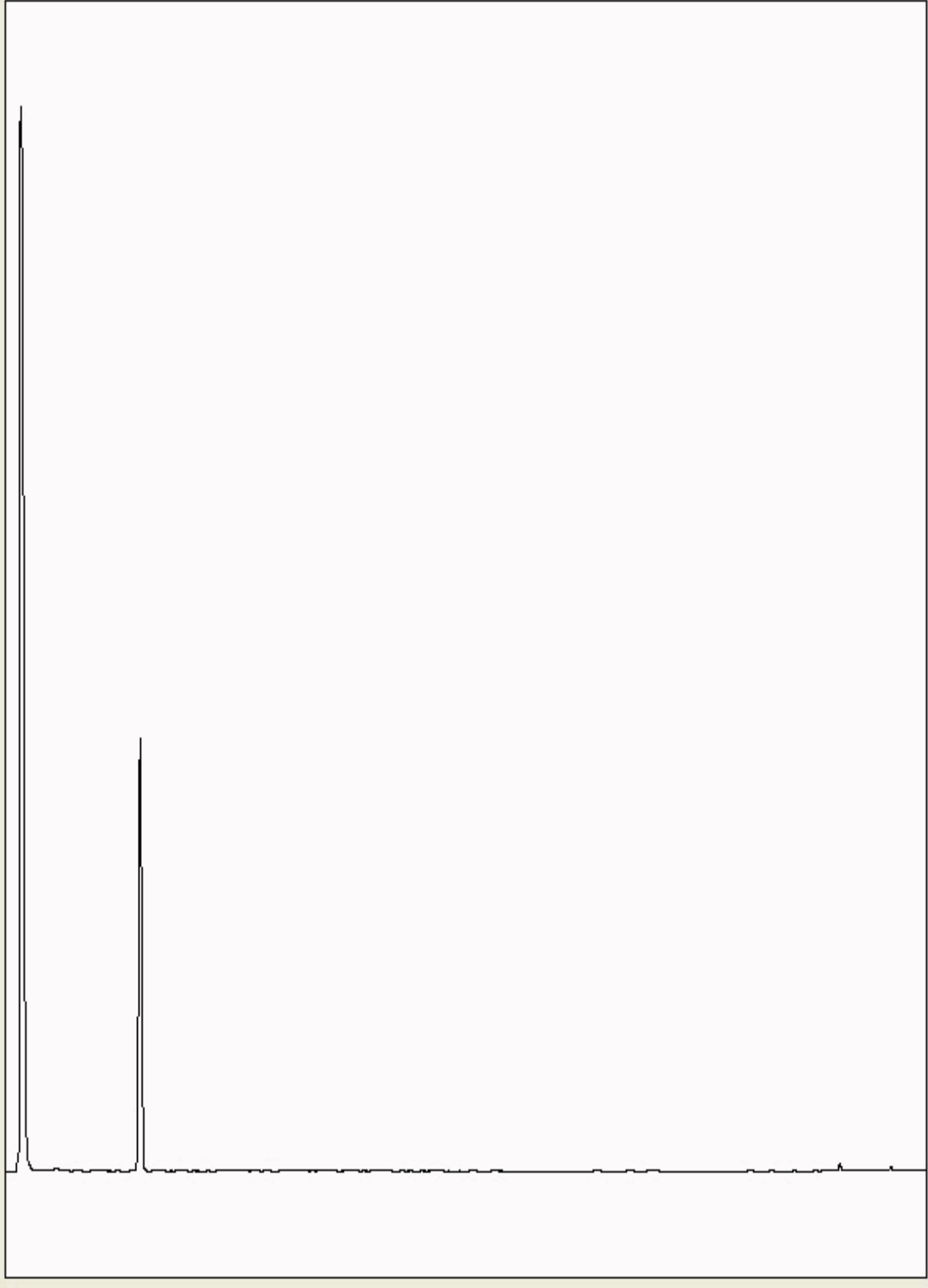
Chromatogram

Analysis: GRO by GC-FID (S)
19275468

Sample No :
Sample ID : BH237

19,275,468 **Depth :** 0.50 - 1.00

19275468_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

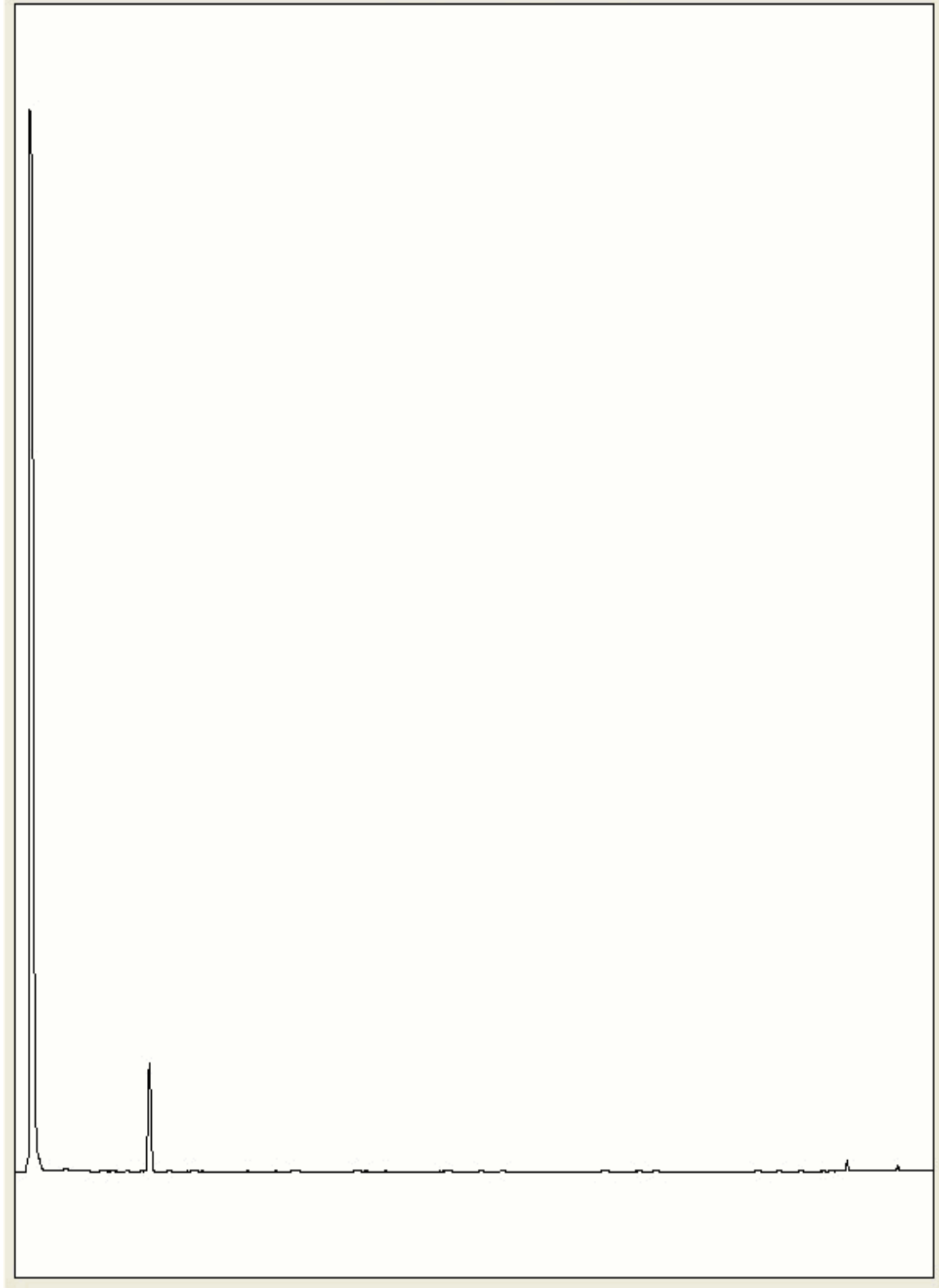
Chromatogram

Analysis: GRO by GC-FID (S)
19275623

Sample No :
Sample ID : BH237

19,275,623 **Depth :** 14.00 - 15.00

19275623_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

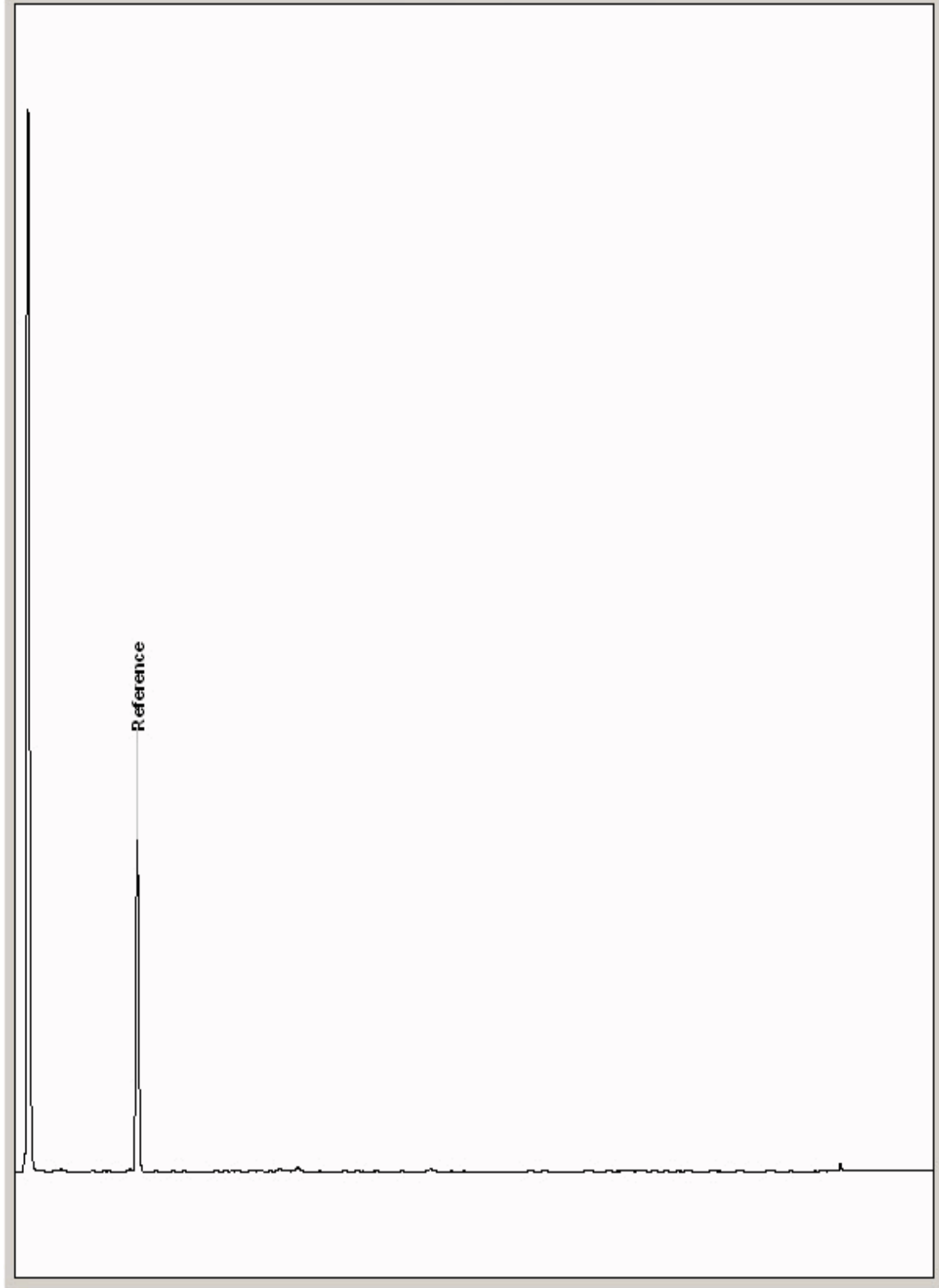
Chromatogram

Analysis: GRO by GC-FID (S)
19277748

Sample No :
Sample ID : BH236

19,277,748Depth :3.00 - 4.00

19277748_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

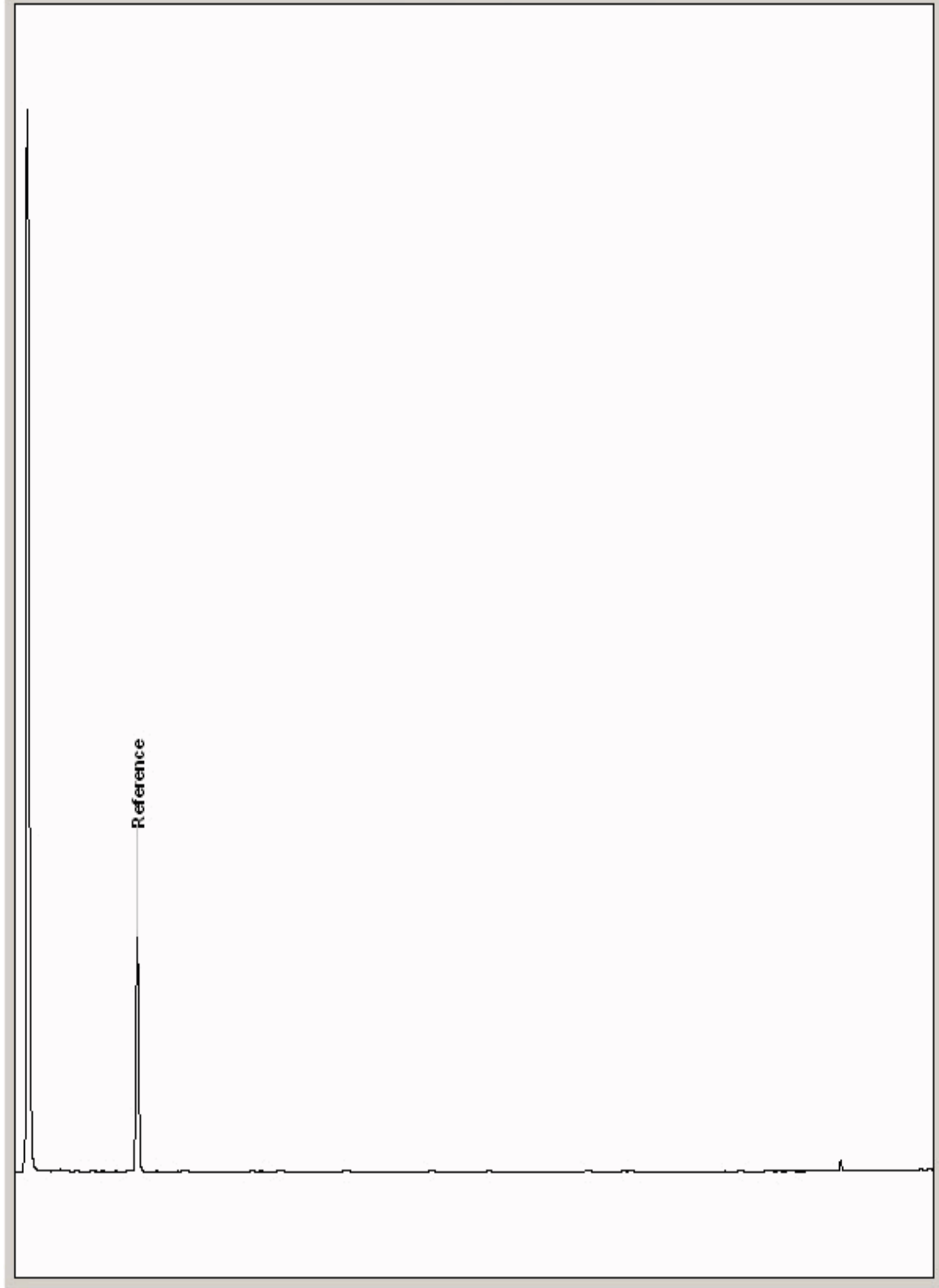
Chromatogram

Analysis: GRO by GC-FID (S)
19277781

Sample No :
Sample ID : BH238

19,277,781 **Depth :** 12.00 - 13.00

19277781_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

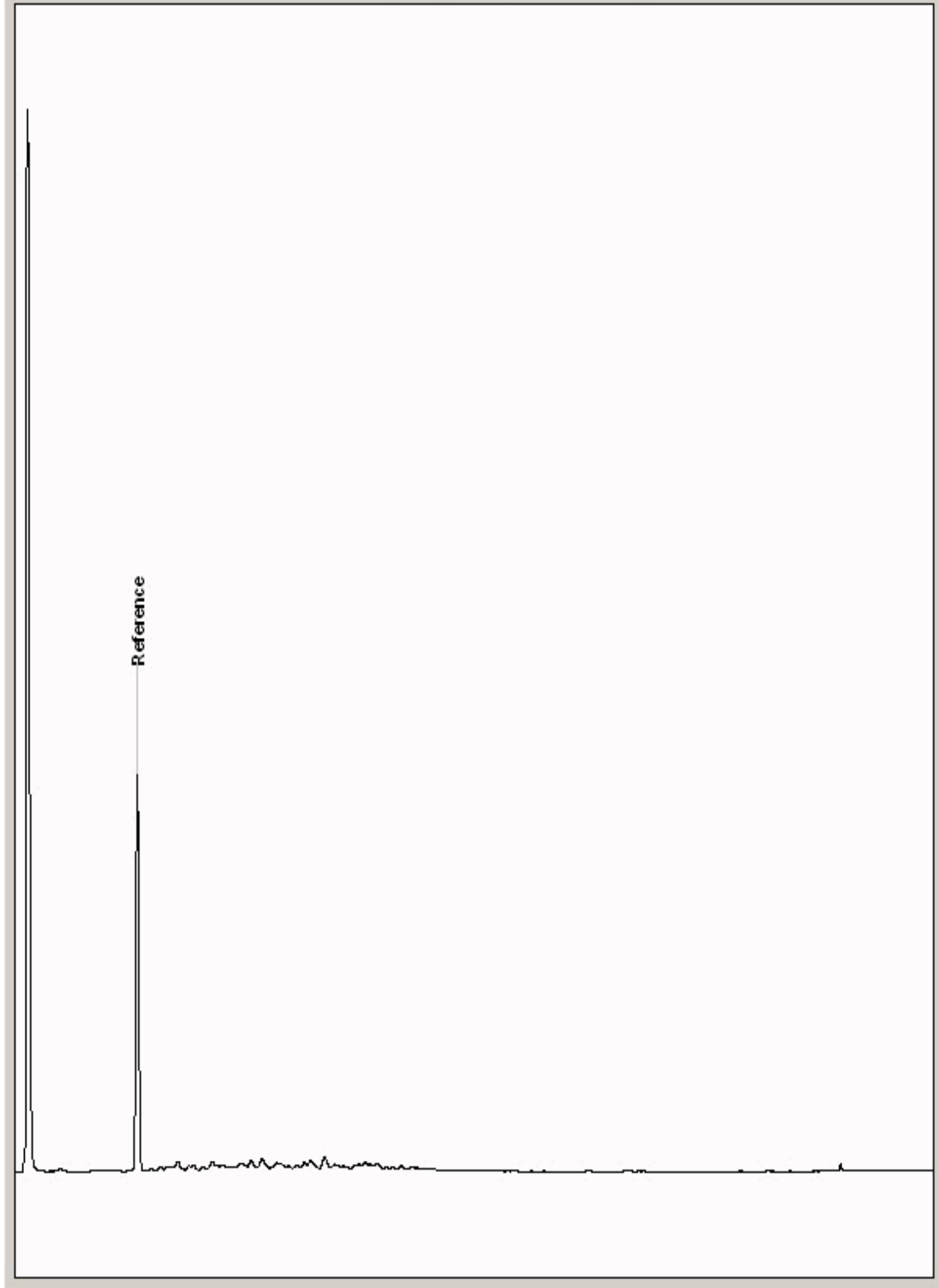
Chromatogram

Analysis: GRO by GC-FID (S)
19277820

Sample No :
Sample ID : BH230

19,277,820Depth :4.00 - 5.00

19277820_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

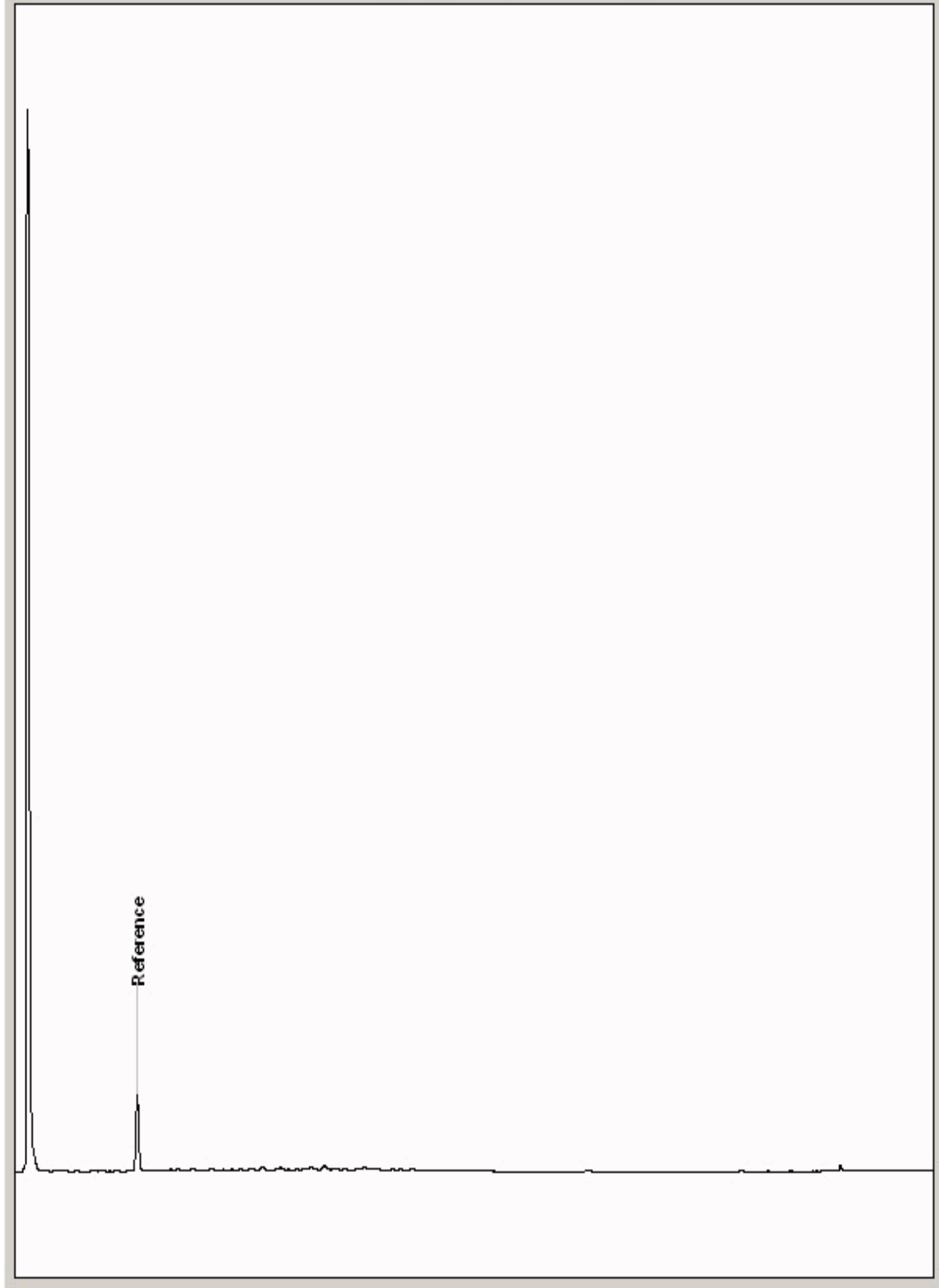
Chromatogram

Analysis: GRO by GC-FID (S)
19277865

Sample No :
Sample ID : BH230

19,277,865 Depth : 14.00 - 15.00

19277865_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

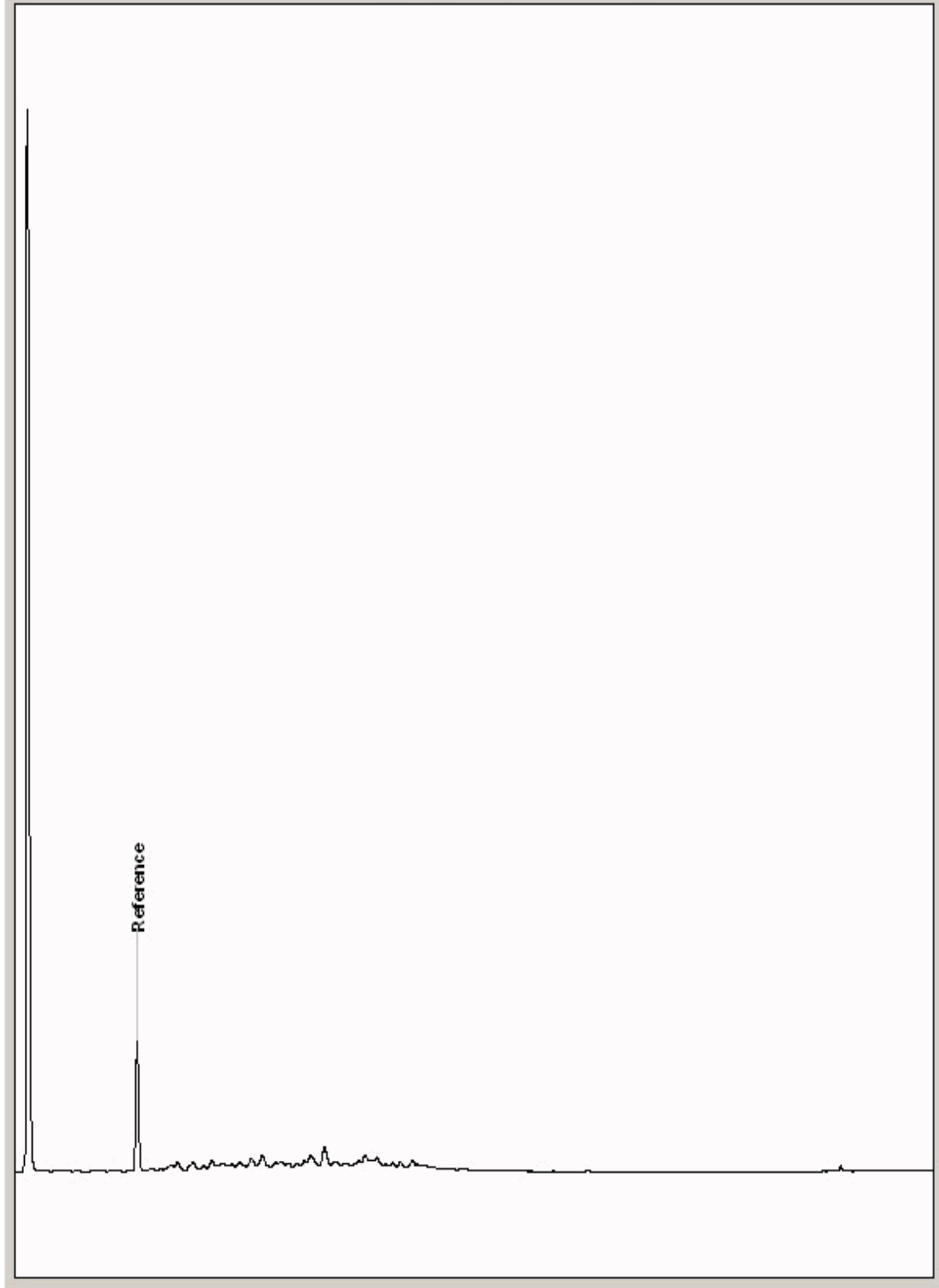
Chromatogram

Analysis: GRO by GC-FID (S)
19294698

Sample No :
Sample ID : BH231

19,294,698 **Depth :** 14.00 - 15.00

19294698_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

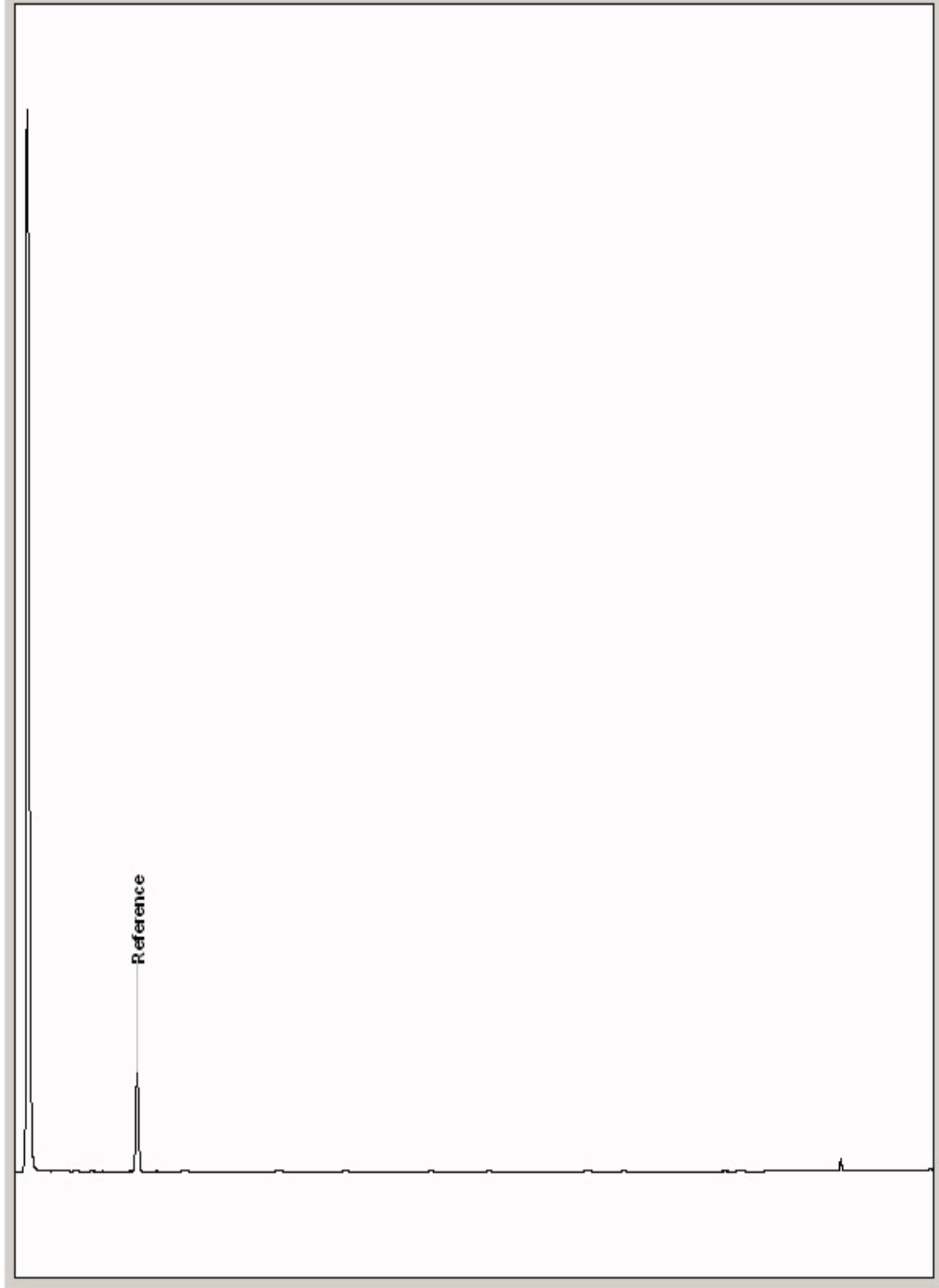
Chromatogram

Analysis: GRO by GC-FID (S)
19294826

Sample No :
Sample ID : BH238

19,294,826 **Depth :** 14.00 - 15.00

19294826_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

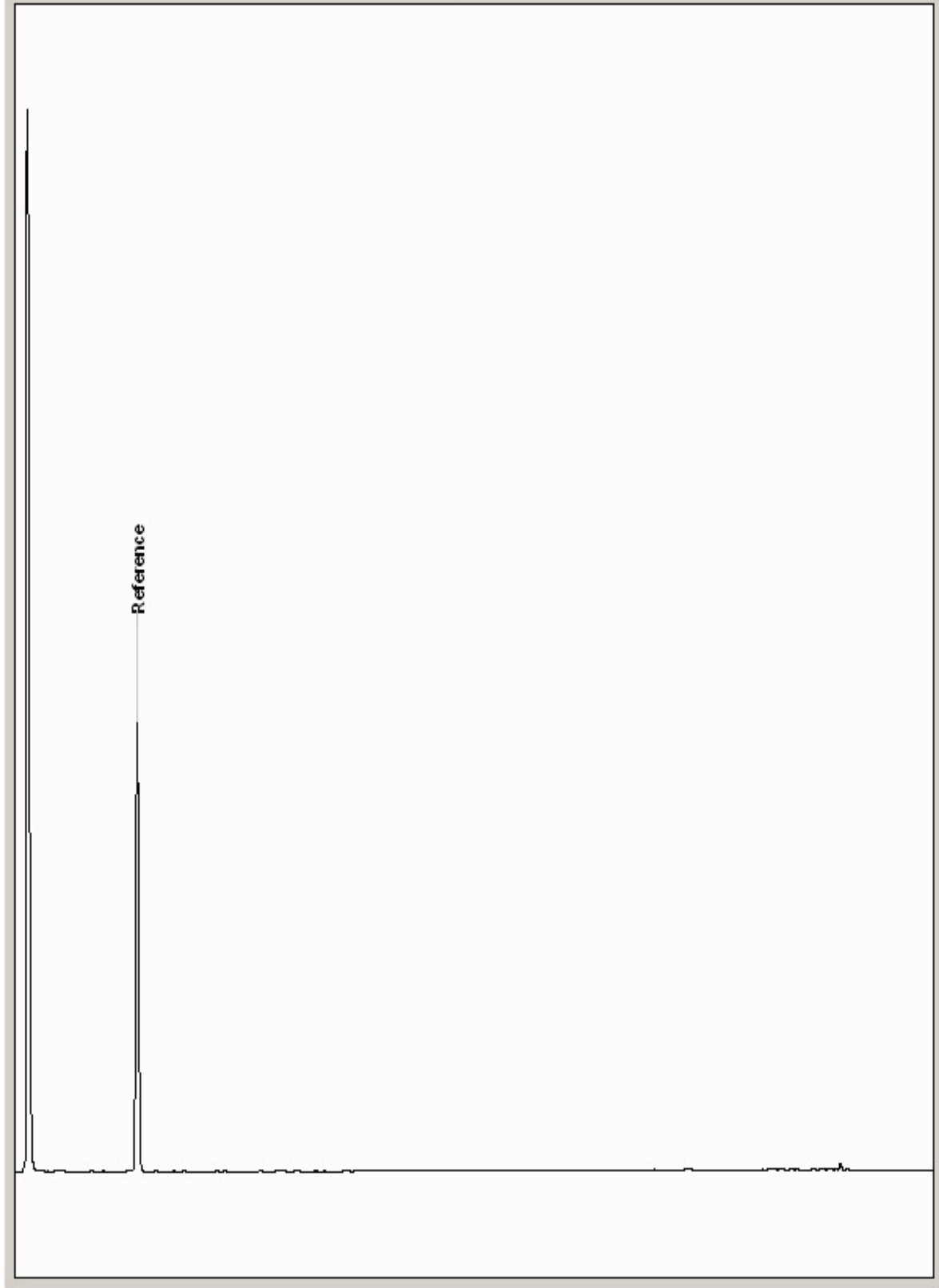
Chromatogram

Analysis: GRO by GC-FID (S)
19294861

Sample No :
Sample ID : BH236

19,294,861 **Depth :** 0.00 - 0.50

19294861_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

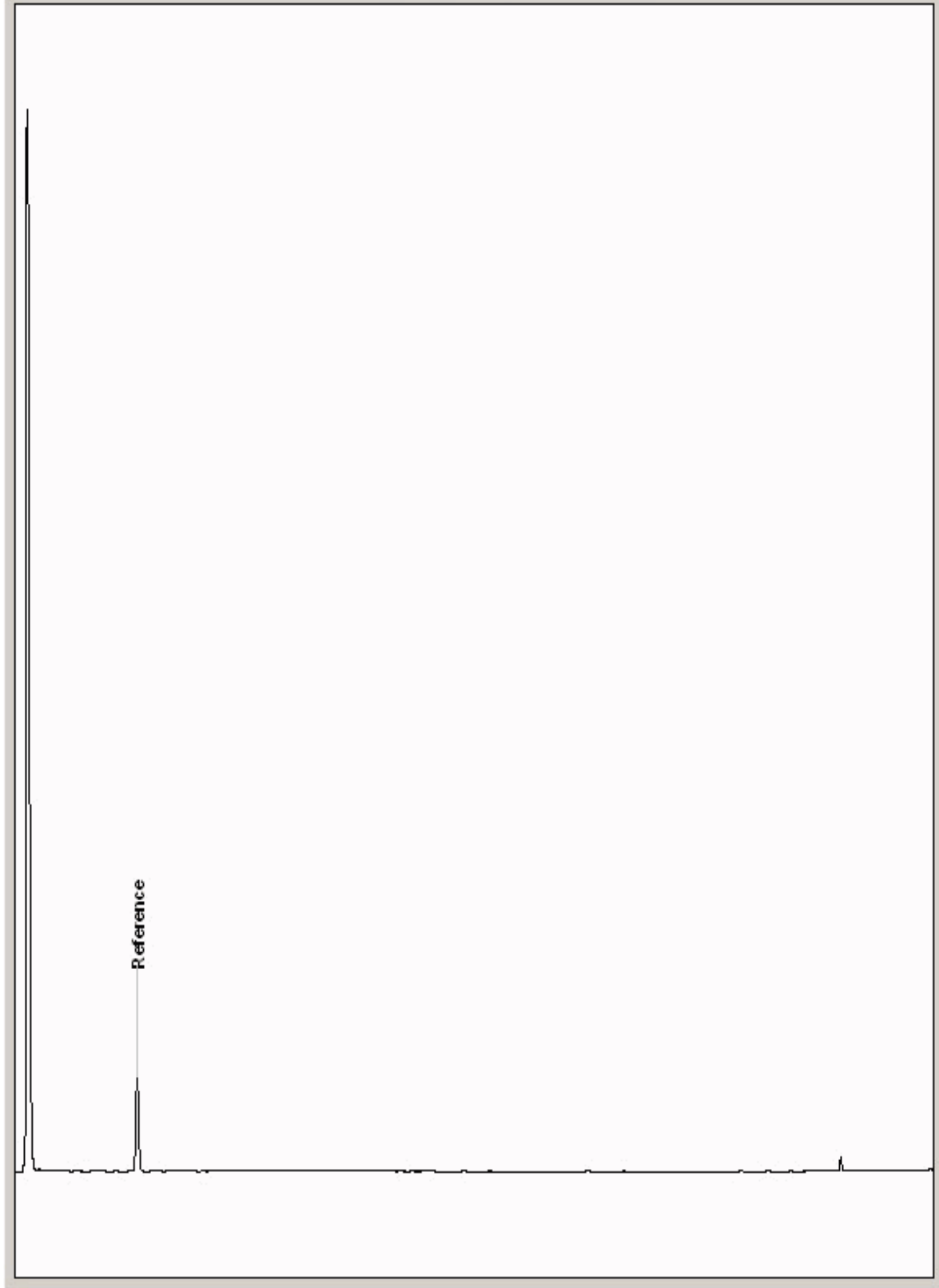
Chromatogram

Analysis: GRO by GC-FID (S)
19294932

Sample No :
Sample ID : BH230

19,294,932 Depth : 16.00 - 17.00

19294932_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	68
Your Reference:	602387	Samples Scheduled:	57

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19146636	BH225		0.50 - 1.00	14/01/2019
19146637	BH225		1.00 - 2.00	14/01/2019
19146645	BH225		10.00 - 12.00	14/01/2019
19146646	BH225		12.00 - 13.00	14/01/2019
19146647	BH225		13.00 - 14.00	14/01/2019
19146649	BH225		15.00 - 17.00	14/01/2019
19146638	BH225		2.00 - 3.00	14/01/2019
19146639	BH225		3.00 - 4.00	14/01/2019
19146640	BH225		4.00 - 5.00	14/01/2019
19146641	BH225		5.00 - 6.00	14/01/2019
19146643	BH225		8.00 - 9.00	14/01/2019
19146650	BH226		0.00 - 0.50	15/01/2019
19146652	BH226		1.00 - 2.00	15/01/2019
19146661	BH226		10.00 - 12.00	15/01/2019
19146663	BH226		13.00 - 14.00	15/01/2019
19146665	BH226		15.00 - 17.00	15/01/2019
19146653	BH226		2.00 - 3.00	15/01/2019
19146654	BH226		3.00 - 4.00	15/01/2019
19146655	BH226		4.30 - 5.00	15/01/2019
19146657	BH226		6.00 - 7.00	15/01/2019
19146659	BH226		8.00 - 9.00	15/01/2019
19146667	BH227		0.50 - 1.00	15/01/2019
19146668	BH227		1.00 - 2.00	15/01/2019
19146680	BH227		12.00 - 13.00	15/01/2019
19146682	BH227		14.00 - 15.00	15/01/2019
19146683	BH227		15.00 - 17.00	15/01/2019
19146669	BH227		2.00 - 3.00	15/01/2019
19146670	BH227		3.00 - 4.00	15/01/2019
19146671	BH227		4.00 - 5.00	15/01/2019
19146672	BH227		5.00 - 6.00	15/01/2019
19146673	BH227		6.00 - 7.00	15/01/2019
19146676	BH227		8.00 - 9.00	15/01/2019
19146677	BH227		9.00 - 11.00	15/01/2019
19146684	BH228		0.00 - 0.50	15/01/2019
19146685	BH228		0.50 - 1.00	15/01/2019
19146686	BH228		1.00 - 2.00	15/01/2019
19146694	BH228		10.00 - 11.00	16/01/2019
19146695	BH228		11.00 - 13.00	16/01/2019
19146696	BH228		13.00 - 14.00	16/01/2019
19146698	BH228		15.00 - 16.00	16/01/2019
19146687	BH228		2.00 - 3.00	16/01/2019
19146688	BH228		3.00 - 4.00	16/01/2019
19146689	BH228		4.00 - 5.00	16/01/2019
19146690	BH228		5.00 - 6.00	16/01/2019
19146692	BH228		7.00 - 8.00	16/01/2019
19146693	BH228		8.00 - 10.00	16/01/2019
19146700	BH229		0.00 - 0.50	16/01/2019
19146702	BH229		1.00 - 2.00	16/01/2019
19146711	BH229		11.00 - 12.00	16/01/2019
19146712	BH229		12.00 - 13.00	16/01/2019
19146713	BH229		13.00 - 14.00	16/01/2019
19146716	BH229		15.00 - 16.00	16/01/2019
19146703	BH229		2.00 - 3.00	16/01/2019
19146704	BH229		3.00 - 4.00	16/01/2019
19146705	BH229		4.00 - 5.00	16/01/2019
19146706	BH229		5.00 - 6.00	16/01/2019
19146708	BH229		7.00 - 9.00	16/01/2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19146718	BH230		0.00 - 0.50	
19146719	BH230		0.50 - 1.00	
19146720	BH230		1.00 - 2.00	
19146729	BH230		10.00 - 11.00	
19146731	BH230		12.00 - 13.00	
19146733	BH230		14.00 - 15.00	17/01/2019
19146721	BH230		2.00 - 3.00	
19146722	BH230		3.00 - 4.00	
19146723	BH230		4.00 - 5.00	
19146725	BH230		6.00 - 7.00	
19146728	BH230		9.00 - 10.00	

ISO5667-3 Water quality - Sampling - Part3 -
During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19146653	19146654	19146655	19146657	19146659	19146661	19146663	19146665	19146667	19146668	19146669	19146670	19146671	19146672
Customer Sample Reference	BH226	BH226	BH226	BH226	BH226	BH226	BH226	BH226	BH227	BH227	BH227	BH227	BH227	BH227
AGS Reference														
Depth (m)	2.00 - 3.00	3.00 - 4.00	4.30 - 5.00	6.00 - 7.00	8.00 - 9.00	10.00 - 12.00	13.00 - 14.00	15.00 - 17.00	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
Container	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)

PCBs by GCMS	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 57		X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 57		X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 57	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19146711	19146712	19146713	19146716
Customer Sample Reference	BH229	BH229	BH229	BH229
AGS Reference				
Depth (m)	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
Container	250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	1kg TUB 250g Amber Jar 60g VOC (ALE215)	60g VOC (ALE215) 250g Amber Jar 1kg TUB

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 57	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 57		X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 57		X	X	X
CEN Readings	All	NDPs: 0 Tests: 57		X	X	X
Coronene	All	NDPs: 0 Tests: 57	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 57		X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 57		X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 57	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 57	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 57		X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 57	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 57	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 57	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 57		X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 57	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 57	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 57	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 57	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19146711	19146712	19146713	19146716
Customer Sample Reference	BH229	BH229	BH229	BH229
AGS Reference				
Depth (m)	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
Container	250g Amber jar 60g VOC (ALE215)	1kg TUB 250g Amber jar 60g VOC (ALE215)	1kg TUB 250g Amber jar 60g VOC (ALE215)	60g VOC (ALE215) 250g Amber jar 1kg TUB
PCBs by GCMS	All	NDPs: 0 Tests: 57	X	X
pH	All	NDPs: 0 Tests: 57	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 57	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 57	X	X
Sample description	All	NDPs: 0 Tests: 57	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 57	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 57	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 57	X	X
VOC MS (S)	All	NDPs: 0 Tests: 57	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH225	BH225	BH225	BH225	BH225	BH225
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 17.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146636	19146637	19146645	19146646	19146647	19146649
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	18	26	13	9.7	9.8	5.2
Loss on ignition	<0.7 %	TM018	1.61	3.66	0.801	1.21	2.01	1.39
Mineral Oil Surrogate % recovery**	%	TM061	77.1	76.6	76.1	86.1	80.1	83.1
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	<1	<1	<1	61.4
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.13	1.57	0.349	0.646	0.663	0.574
pH	1 pH Units	TM133	8.16	7.81	9.41	8.73	8.56	8.27
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	24.8	19	6.48	6.88	9.56	12
Cadmium	<0.02 mg/kg	TM181	0.482	0.88	0.988	1.42	1.77	1.51
Chromium	<0.9 mg/kg	TM181	29.3	24.6	6.37	7.54	10.3	8.81
Copper	<1.4 mg/kg	TM181	23.5	40.3	11.8	16.9	27	20.6
Lead	<0.7 mg/kg	TM181	50.6	182	8.44	7.63	15.9	11.4
Mercury	<0.14 mg/kg	TM181	<0.14	0.216	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	9.44	19.6	15.6	21.7	33.5	27.4
Selenium	<1 mg/kg	TM181	<1	<1	<1	1.75	2.13	2.11
Zinc	<1.9 mg/kg	TM181	114	202	52	55.9	92.1	68.1
ANC @ pH 4	<0.03 mol/kg	TM182	0.201	0.347	0.11	0.867	1.48	1.2
ANC @ pH 6	<0.03 mol/kg	TM182	0.056	0.0581	0.0587	0.213	0.191	0.22
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH225	BH225	BH225	BH225	BH225	BH226
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146638	19146639	19146640	19146641	19146643	19146650
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	25	18	13	18	9.4	8
Loss on ignition	<0.7 %	TM018	6.52	7.34	1.5	1.97	<0.7	3
Mineral Oil Surrogate % recovery**	%	TM061	76.3	75.7	76.7	79.8	86.9	72.5
Mineral oil >C10-C40	<1 mg/kg	TM061	11.8	12.7	2.82	10.5	<1	82.5
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.3	9.35	1.16	1.03	0.343	1.81
pH	1 pH Units	TM133	8.24	8.34	7.98	8.18	9.32	8.17
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	16.5	16	6.39	8.7	3.79	27.4
Cadmium	<0.02 mg/kg	TM181	0.86	0.637	0.197	0.318	0.754	4.05
Chromium	<0.9 mg/kg	TM181	21.6	17.5	8.07	9.37	11.7	8.81
Copper	<1.4 mg/kg	TM181	91.7	51.9	9.5	28.9	11.3	345
Lead	<0.7 mg/kg	TM181	85.6	165	21.4	52.7	6.33	657
Mercury	<0.14 mg/kg	TM181	0.75	0.859	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	23.6	23.4	8.42	10.1	19.9	18.2
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	101	84.1	36.3	51	52.7	1300
ANC @ pH 4	<0.03 mol/kg	TM182	0.551	0.32	0.0781	0.0962	0.143	0.246
ANC @ pH 6	<0.03 mol/kg	TM182	0.0914	0.0784	0.0516	0.0508	0.0718	0.0424
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	35.5
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	477



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH226	BH226	BH226	BH226	BH226	BH226
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	10.00 - 12.00	13.00 - 14.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146652	19146661	19146663	19146665	19146653	19146654
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	15	8.2	10	7.9	23	14
Loss on ignition	<0.7 %	TM018	2.87	2.39	1.11	3.03	3.83	10.4
Mineral Oil Surrogate % recovery**	%	TM061	73.8	80.1	85.2	72.3	75.6	73.3
Mineral oil >C10-C40	<1 mg/kg	TM061	24.6	<1	1.36	37.5	33.4	39.5
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.07	0.369	0.579	0.689	1.53	1.91
pH	1 pH Units	TM133	7.81	9.5	8.62	8.35	7.95	7.94
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	6.7	4.3	7.4	9.18	9.16	11.2
Cadmium	<0.02 mg/kg	TM181	1.14	1.1	1.46	1.5	0.784	0.83
Chromium	<0.9 mg/kg	TM181	7.91	5.84	8.57	8.78	12.5	15
Copper	<1.4 mg/kg	TM181	22.7	10.6	16.5	22	30.9	39.9
Lead	<0.7 mg/kg	TM181	43.5	5.24	7.26	9.8	58.9	77.9
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	0.209	0.371
Nickel	<0.2 mg/kg	TM181	12.9	17.7	25.1	29.1	17.3	20.4
Selenium	<1 mg/kg	TM181	<1	<1	2	2.04	<1	<1
Zinc	<1.9 mg/kg	TM181	227	40.6	55.6	67.5	147	140
ANC @ pH 4	<0.03 mol/kg	TM182	0.193	0.417	0.744	1.17	0.524	0.29
ANC @ pH 6	<0.03 mol/kg	TM182	0.0603	0.128	0.156	0.149	0.0573	0.0534
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH226	BH226	BH226	BH227	BH227	BH227
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.30 - 5.00	6.00 - 7.00	8.00 - 9.00	0.50 - 1.00	1.00 - 2.00	12.00 - 13.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146655	19146657	19146659	19146667	19146668	19146680
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	16	13	10	13	25	11
Loss on ignition	<0.7 %	TM018	2.45	3.27	1.05	3.42	3.64	1.81
Mineral Oil Surrogate % recovery**	%	TM061	81	83.2	80.9	81.8	74.8	79.4
Mineral oil >C10-C40	<1 mg/kg	TM061	21.1	21.6	72.2	126	3.92	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.943	1.17	0.375	2.02	1.96	0.76
pH	1 pH Units	TM133	7.8	8.42	8.89	7.63	7.69	8.67
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	6.07	5.79	3.76	9.15	9.85	10.8
Cadmium	<0.02 mg/kg	TM181	0.31	0.314	0.605	0.599	0.642	1.21
Chromium	<0.9 mg/kg	TM181	8.32	9.73	7.41	9.27	12.6	6.51
Copper	<1.4 mg/kg	TM181	15.1	15.5	7.65	28.1	25.1	15
Lead	<0.7 mg/kg	TM181	31.2	29.5	4.67	42.9	45.9	7.8
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	0.262	<0.14
Nickel	<0.2 mg/kg	TM181	9.13	10.8	17.1	14.4	17.2	22.7
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	1.21
Zinc	<1.9 mg/kg	TM181	39.8	43.6	42.5	143	70.7	67.8
ANC @ pH 4	<0.03 mol/kg	TM182	0.12	0.176	0.251	0.138	0.313	0.538
ANC @ pH 6	<0.03 mol/kg	TM182	0.0529	0.0553	0.0746	0.038	0.0464	0.134
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH227	BH227	BH227	BH227	BH227	BH227
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	14.00 - 15.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146682	19146683	19146669	19146670	19146671	19146672
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	7.5	11	21	19	24	19
Loss on ignition	<0.7 %	TM018	2.34	1.51	7.11	7.56	4.75	3.85
Mineral Oil Surrogate % recovery**	%	TM061	78.5	84.5	80.5	77.5	78.3	74.7
Mineral oil >C10-C40	<1 mg/kg	TM061	29.4	<1	96.9	20	44.7	64.1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.57	0.825	2.17	1.74	2.12	4.47
pH	1 pH Units	TM133	8.24	8.09	7.61	8.27	8.35	8.34
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	8.25	9.71	12.1	12.7	11.7	8.95
Cadmium	<0.02 mg/kg	TM181	2.06	1.24	0.818	0.718	0.704	0.525
Chromium	<0.9 mg/kg	TM181	7.74	9.79	16.2	17.9	17.2	11.2
Copper	<1.4 mg/kg	TM181	22.6	24.6	39.9	40.1	38	26.4
Lead	<0.7 mg/kg	TM181	9.97	14.2	66.9	64.3	70.7	56.1
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	0.476	0.398	0.648	0.317
Nickel	<0.2 mg/kg	TM181	26.7	31.6	22.5	23.3	22.6	15.7
Selenium	<1 mg/kg	TM181	2.28	2.61	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	67.1	61.9	97.3	96.2	79.2	60
ANC @ pH 4	<0.03 mol/kg	TM182	0.934	1.27	0.638	0.539	0.386	0.17
ANC @ pH 6	<0.03 mol/kg	TM182	0.131	0.13	0.0577	0.083	0.0905	0.056
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH227	BH227	BH227	BH228	BH228	BH228
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	8.00 - 9.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146673	19146676	19146677	19146684	19146685	19146686
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	17	7.4	10	8.9	18	21
Loss on ignition	<0.7 %	TM018	3.3	1.36	<0.7	3.6	2.29	3.48
Mineral Oil Surrogate % recovery**	%	TM061	82.2	80	87.1	77.5	75.9	73.6
Mineral oil >C10-C40	<1 mg/kg	TM061	79.9	20.7	<1	35.9	34.8	22.3
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.15	0.372	0.34	2.31	1.75	1.77
pH	1 pH Units	TM133	8.53	9.09	9.36	7.97	7.98	8.1
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	9.85	4.52	7.26	9.65	8.93	6.86
Cadmium	<0.02 mg/kg	TM181	0.45	0.482	0.83	0.883	0.709	0.59
Chromium	<0.9 mg/kg	TM181	11.4	4.29	6.1	10.3	11	8.65
Copper	<1.4 mg/kg	TM181	19.5	18.8	8.65	67.2	54.7	22.8
Lead	<0.7 mg/kg	TM181	39.7	22.8	5.42	120	123	33.6
Mercury	<0.14 mg/kg	TM181	0.227	<0.14	<0.14	0.226	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	16.1	11.9	20.6	15.2	14.4	17.1
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	58.5	58.7	53.8	233	108	51.1
ANC @ pH 4	<0.03 mol/kg	TM182	0.228	0.472	0.156	0.14	0.175	0.357
ANC @ pH 6	<0.03 mol/kg	TM182	0.0648	0.128	0.0616	0.0534	0.048	0.0625
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH228	BH228	BH228	BH228	BH228	BH228
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 11.00	11.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146694	19146695	19146696	19146698	19146687	19146688
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	11	11	7.5	11	12	23
Loss on ignition	<0.7 %	TM018	0.969	2.25	2.56	1.91	15	6.88
Mineral Oil Surrogate % recovery**	%	TM061	79.9	79.4	77.6	78.1	76.5	77.7
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	8.9	12.2	8.7	11.9
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.406	0.497	0.772	0.836	1.71	2.19
pH	1 pH Units	TM133	9.59	8.98	8.46	8.46	7.78	7.93
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	4.43	6.98	8.03	8.5	12	12.9
Cadmium	<0.02 mg/kg	TM181	0.991	1.37	1.11	2.11	0.721	0.803
Chromium	<0.9 mg/kg	TM181	5.32	7.15	7.08	9.53	14.4	16.3
Copper	<1.4 mg/kg	TM181	7.97	16.4	18	24.9	33	54
Lead	<0.7 mg/kg	TM181	4.93	7.9	12.2	9.54	63.3	75.6
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	0.322	0.484
Nickel	<0.2 mg/kg	TM181	12.7	26.6	22.5	29.3	20	22.8
Selenium	<1 mg/kg	TM181	<1	1.94	2	2.34	<1	<1
Zinc	<1.9 mg/kg	TM181	39.2	63.6	62.7	92.1	77.8	83.4
ANC @ pH 4	<0.03 mol/kg	TM182	0.149	1.19	0.873	1.34	0.196	0.527
ANC @ pH 6	<0.03 mol/kg	TM182	0.066	0.237	0.188	0.104	0.0442	0.056
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH228	BH228	BH228	BH228	BH229	BH229
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	7.00 - 8.00	8.00 - 10.00	0.00 - 0.50	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146689	19146690	19146692	19146693	19146700	19146702
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	23	21	8.4	7.5	10	23
Loss on ignition	<0.7 %	TM018	4.98	4.52	1.41	1.84	3.79	6.16
Mineral Oil Surrogate % recovery**	%	TM061	73.7	76.3	78.6	79.3	79.6	73.5
Mineral oil >C10-C40	<1 mg/kg	TM061	20.6	7.6	12.6	2.72	188	75.2
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	4.51	1.73	0.485	0.239	4.08	1.48
pH	1 pH Units	TM133	7.95	7.89	8.61	9.2	7.79	7.38
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11.5	7.31	5.74	3.46	14.4	9.46
Cadmium	<0.02 mg/kg	TM181	1.04	0.556	0.451	0.937	2.49	0.962
Chromium	<0.9 mg/kg	TM181	14.3	10.2	6.99	5.23	7.01	13
Copper	<1.4 mg/kg	TM181	35.1	22.4	10.5	7.17	193	38.7
Lead	<0.7 mg/kg	TM181	83.7	52.6	19.6	4.48	296	67.3
Mercury	<0.14 mg/kg	TM181	0.594	0.221	<0.14	<0.14	<0.14	0.405
Nickel	<0.2 mg/kg	TM181	22.4	15.2	11.8	12.3	18.4	17.5
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	73.9	60.2	38.6	45.7	781	90.8
ANC @ pH 4	<0.03 mol/kg	TM182	0.357	0.254	0.494	0.371	0.221	0.427
ANC @ pH 6	<0.03 mol/kg	TM182	0.0704	0.0511	0.098	0.101	0.0483	0.0581
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	375	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	3360	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH229	BH229	BH229	BH229	BH229	BH229
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	16	20	14	8.1	19	18
Loss on ignition	<0.7 %	TM018	1.8	<0.7	1.66	2.23	3.88	7.82
Mineral Oil Surrogate % recovery**	%	TM061	78.3	78.2	79.2	78.7	81.8	80.6
Mineral oil >C10-C40	<1 mg/kg	TM061	5.55	58.8	5.06	51.8	208	43.6
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.374	0.388	0.538	0.789	1.87	1.97
pH	1 pH Units	TM133	9.17	8.9	8.49	8.36	7.5	7.96
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.84	7.51	7.51	6.88	10.7	11.2
Cadmium	<0.02 mg/kg	TM181	1.27	1.52	1.69	1.18	0.427	0.698
Chromium	<0.9 mg/kg	TM181	7.45	6.85	9.03	7.89	9.02	14.1
Copper	<1.4 mg/kg	TM181	15.2	13.5	20.1	17.4	35	48.4
Lead	<0.7 mg/kg	TM181	7.68	8.55	10.9	8.52	40.2	63.8
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	0.264	0.374
Nickel	<0.2 mg/kg	TM181	23.3	20.8	27.4	24.9	14	20
Selenium	<1 mg/kg	TM181	<1	<1	1.4	1.82	<1	<1
Zinc	<1.9 mg/kg	TM181	63.8	66.7	64.3	60	50.4	78.4
ANC @ pH 4	<0.03 mol/kg	TM182	0.442	0.0977	0.584	1.45	0.235	0.406
ANC @ pH 6	<0.03 mol/kg	TM182	0.105	0.0539	0.144	0.109	0.0376	0.062
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH229	BH229	BH229				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.00 - 5.00	5.00 - 6.00	7.00 - 9.00				
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)				
aq	Aqueous / settled sample.		16/01/2019	16/01/2019	16/01/2019				
diss.filt	Dissolved / filtered sample.		18/01/2019	18/01/2019	18/01/2019				
tot.unfilt	Total / unfiltered sample.		190118-133	190118-133	190118-133				
*	Subcontracted - refer to subcontractor report for accreditation status.		19146705	19146706	19146708				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Moisture Content Ratio (% of as received sample)	%		PM024	24	24	8.7			
Loss on ignition	<0.7 %	TM018	4.3	4.58	<0.7				
Mineral Oil Surrogate % recovery**	%	TM061	81.6	76.8	78.9				
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	28.7	<1				
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01				
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01				
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015				
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01				
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015				
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06				
Organic Carbon, Total	<0.2 %	TM132	2.52	2.16	0.298				
pH	1 pH Units	TM133	7.91	7.73	8.91				
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6				
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3				
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3				
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3				
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3				
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3				
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3				
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3				
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21				
Arsenic	<0.6 mg/kg	TM181	10.6	11.8	4.09				
Cadmium	<0.02 mg/kg	TM181	0.56	0.708	0.569				
Chromium	<0.9 mg/kg	TM181	12.4	15.3	5.41				
Copper	<1.4 mg/kg	TM181	34.5	33.3	9.37				
Lead	<0.7 mg/kg	TM181	69.9	75.9	17.9				
Mercury	<0.14 mg/kg	TM181	0.474	0.501	<0.14				
Nickel	<0.2 mg/kg	TM181	17.7	20.9	15.4				
Selenium	<1 mg/kg	TM181	<1	<1	<1				
Zinc	<1.9 mg/kg	TM181	65.2	89.5	60.1				
ANC @ pH 4	<0.03 mol/kg	TM182	<0.03	0.427	<0.03				
ANC @ pH 6	<0.03 mol/kg	TM182	0.0622	0.0753	0.0755				
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410	<10	<10	<10				
Coronene	<200 µg/kg	TM410	<200	<200	<200				



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH225	BH225	BH225	BH225	BH225	BH225	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 1.00	1.00 - 2.00	10.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 17.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	
diss.filt	Dissolved / filtered sample.		18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	
tot.unfilt	Total / unfiltered sample.		190118-133	190118-133	190118-133	190118-133	190118-133	190118-133	
*	Subcontracted - refer to subcontractor report for accreditation status.		19146636	19146637	19146645	19146646	19146647	19146649	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	86.4	87.4	89.2	95.4	108	96.7
Acenaphthene-d10 % recovery**	%	TM218	92	91	94	92.4	115	94	
Phenanthrene-d10 % recovery**	%	TM218	89.8	91.5	90.6	91.3	110	88.4	
Chrysene-d12 % recovery**	%	TM218	77.4	79.4	78.9	82.9	91	73.6	
Perylene-d12 % recovery**	%	TM218	77.3	80.2	76.4	79.5	79.1	70.9	
Naphthalene	<9 µg/kg	TM218	31.5	83.5	<9	19	<9	19.8	
Acenaphthylene	<12 µg/kg	TM218	26.4	18.3	<12	<12	<12	<12	
Acenaphthene	<8 µg/kg	TM218	72.9	49.2	<8	20.2	<8	9.24	
Fluorene	<10 µg/kg	TM218	37.9	86	<10	18.7	<10	22	
Phenanthrene	<15 µg/kg	TM218	228	314	<15	42.6	27.2	62.5	
Anthracene	<16 µg/kg	TM218	165	119	<16	31.2	<16	<16	
Fluoranthene	<17 µg/kg	TM218	652	394	<17	19.7	<17	<17	
Pyrene	<15 µg/kg	TM218	511	292	<15	<15	<15	<15	
Benz(a)anthracene	<14 µg/kg	TM218	333	162	<14	<14	<14	<14	
Chrysene	<10 µg/kg	TM218	239	132	<10	<10	<10	<10	
Benzo(b)fluoranthene	<15 µg/kg	TM218	278	158	<15	<15	<15	<15	
Benzo(k)fluoranthene	<14 µg/kg	TM218	134	76.4	<14	<14	<14	<14	
Benzo(a)pyrene	<15 µg/kg	TM218	245	128	<15	<15	<15	<15	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	104	57.8	<18	<18	<18	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	35.6	<23	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	120	62.2	<24	<24	<24	<24	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	3210	2130	<118	151	<118	<118	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH225	BH225	BH225	BH225	BH225	BH226
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146638	19146639	19146640	19146641	19146643	19146650
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	86.9	87.4	88.9	89.3	96.6	103
Acenaphthene-d10 % recovery**	%	TM218	93.6	93	93.4	94.2	94.8	104
Phenanthrene-d10 % recovery**	%	TM218	94	91.4	90	91.8	91.8	101
Chrysene-d12 % recovery**	%	TM218	82.7	78.7	76.6	82.2	85.3	93.6
Perylene-d12 % recovery**	%	TM218	83.8	78.1	76.8	81.6	83.9	90.1
Naphthalene	<9 µg/kg	TM218	58.1	49.6	<9	13	<9	110
Acenaphthylene	<12 µg/kg	TM218	17.7	55.3	<12	<12	<12	305
Acenaphthene	<8 µg/kg	TM218	27.6	42.2	<8	<8	<8	86.5
Fluorene	<10 µg/kg	TM218	54.3	112	<10	<10	<10	150
Phenanthrene	<15 µg/kg	TM218	229	643	51.7	36.9	<15	1820
Anthracene	<16 µg/kg	TM218	101	326	21.9	<16	<16	1380
Fluoranthene	<17 µg/kg	TM218	298	779	65.4	33.7	<17	6860
Pyrene	<15 µg/kg	TM218	227	608	55.9	27.1	<15	6280
Benz(a)anthracene	<14 µg/kg	TM218	139	388	36.5	<14	<14	3250
Chrysene	<10 µg/kg	TM218	123	268	28.9	<10	<10	2550
Benzo(b)fluoranthene	<15 µg/kg	TM218	131	324	31.3	<15	<15	4000
Benzo(k)fluoranthene	<14 µg/kg	TM218	60.2	159	<14	<14	<14	1420
Benzo(a)pyrene	<15 µg/kg	TM218	107	290	25.2	<15	<15	3030
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	51.3	124	<18	<18	<18	1470
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	43.5	<23	<23	<23	483
Benzo(g,h,i)perylene	<24 µg/kg	TM218	63.2	152	<24	<24	<24	1850
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1690	4370	317	<118	<118	35000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH226	BH226	BH226	BH226	BH226	BH226
#	ISO17025 accredited.	Depth (m)	1.00 - 2.00	10.00 - 12.00	13.00 - 14.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00
M	mCERTS accredited.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.	Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
diss.filt	Dissolved / filtered sample.	Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
tot.unfilt	Total / unfiltered sample.	SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
*	Subcontracted - refer to subcontractor report for accreditation status.	Lab Sample No.(s)	19146652	19146661	19146663	19146665	19146653	19146654
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	102	113	109	113	102	94.1
Acenaphthene-d10 % recovery**	%	TM218	99.1	110	106	109	101	98
Phenanthrene-d10 % recovery**	%	TM218	98.4	104	97.9	101	96.4	98.7
Chrysene-d12 % recovery**	%	TM218	95.1	102	99.8	94.4	96.6	97.4
Perylene-d12 % recovery**	%	TM218	90.5	100	95.5	69.3	93.3	91.7
Naphthalene	<9 µg/kg	TM218	26.2	<9	<9	11.2	55.7	55
Acenaphthylene	<12 µg/kg	TM218	25.1	<12	<12	<12	32.3	20.2
Acenaphthene	<8 µg/kg	TM218	66.4	<8	<8	<8	19.2	17.4
Fluorene	<10 µg/kg	TM218	39.5	<10	<10	<10	41.9	43.6
Phenanthrene	<15 µg/kg	TM218	513	<15	<15	35.8	267	220
Anthracene	<16 µg/kg	TM218	170	<16	<16	<16	173	97
Fluoranthene	<17 µg/kg	TM218	1320	<17	<17	<17	636	341
Pyrene	<15 µg/kg	TM218	1130	<15	<15	<15	486	268
Benz(a)anthracene	<14 µg/kg	TM218	494	<14	<14	<14	344	177
Chrysene	<10 µg/kg	TM218	439	<10	<10	<10	250	128
Benzo(b)fluoranthene	<15 µg/kg	TM218	602	<15	<15	<15	303	178
Benzo(k)fluoranthene	<14 µg/kg	TM218	219	<14	<14	<14	115	55.5
Benzo(a)pyrene	<15 µg/kg	TM218	432	<15	<15	<15	228	130
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	209	<18	<18	<18	98.9	51.6
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	73.5	<23	<23	<23	35.2	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	292	<24	<24	<24	103	68.2
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	6050	<118	<118	<118	3190	1850



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH226	BH226	BH226	BH227	BH227	BH227
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.30 - 5.00	6.00 - 7.00	8.00 - 9.00	0.50 - 1.00	1.00 - 2.00	12.00 - 13.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146655	19146657	19146659	19146667	19146668	19146680
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	105	109	117	103	100	119
Acenaphthene-d10 % recovery**	%	TM218	105	106	115	103	94.3	117
Phenanthrene-d10 % recovery**	%	TM218	99.5	101	107	90	98.1	111
Chrysene-d12 % recovery**	%	TM218	97.5	103	103	86.6	97	108
Perylene-d12 % recovery**	%	TM218	97.5	102	102	82.7	92.5	98.8
Naphthalene	<9 µg/kg	TM218	17.8	<9	<9	<90	40.8	<9
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<120	<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<80	12	<8
Fluorene	<10 µg/kg	TM218	21.9	<10	<10	<100	37.6	<10
Phenanthrene	<15 µg/kg	TM218	79.3	38.3	<15	<150	101	<15
Anthracene	<16 µg/kg	TM218	38.3	<16	<16	<160	52.9	<16
Fluoranthene	<17 µg/kg	TM218	108	49.5	<17	<170	180	<17
Pyrene	<15 µg/kg	TM218	88.6	41.4	<15	<150	142	<15
Benz(a)anthracene	<14 µg/kg	TM218	63.5	31.9	<14	<140	97.4	<14
Chrysene	<10 µg/kg	TM218	55.3	25.8	<10	<100	69.5	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	66.5	30.1	<15	<150	103	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	25	<14	<14	<140	39.2	<14
Benzo(a)pyrene	<15 µg/kg	TM218	49.3	21.8	<15	<150	75.3	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	37.2	<18	<18	<180	32.7	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<230	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<240	43.3	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	650	239	<118	<1180	1030	<118



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH227	BH227	BH227	BH227	BH227	BH227
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	14.00 - 15.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146682	19146683	19146669	19146670	19146671	19146672
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	117	104	117	102	104	116
Acenaphthene-d10 % recovery**	%	TM218	113	102	113	102	107	116
Phenanthrene-d10 % recovery**	%	TM218	106	92.7	111	97.6	105	108
Chrysene-d12 % recovery**	%	TM218	101	92.2	119	101	104	107
Perylene-d12 % recovery**	%	TM218	95.9	84.8	113	98.4	99.6	109
Naphthalene	<9 µg/kg	TM218	<9	<9	32.1	53.8	51.7	<9
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	19.4	<12
Acenaphthene	<8 µg/kg	TM218	<8	<8	16.8	32.1	29.3	<8
Fluorene	<10 µg/kg	TM218	<10	<10	37.3	70.2	89.3	<10
Phenanthrene	<15 µg/kg	TM218	<15	<15	116	284	364	42.2
Anthracene	<16 µg/kg	TM218	<16	<16	67.8	90.9	124	<16
Fluoranthene	<17 µg/kg	TM218	<17	<17	232	270	371	52.6
Pyrene	<15 µg/kg	TM218	<15	<15	188	221	275	42.9
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	112	124	150	<14
Chrysene	<10 µg/kg	TM218	<10	<10	98.6	104	137	17.5
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	87.7	130	119	18.5
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	42	57.9	40.1	<14
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	87.6	82.8	82.7	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	36.9	66.1	27.6	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	45	42.3	38.2	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	1200	1630	1920	174



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH228	BH228	BH228	BH228	BH228	BH228
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 11.00	11.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146694	19146695	19146696	19146698	19146687	19146688
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	111	119	102	114	101	116
Acenaphthene-d10 % recovery**	%	TM218	101	115	101	115	101	113
Phenanthrene-d10 % recovery**	%	TM218	99.9	108	98.1	104	101	110
Chrysene-d12 % recovery**	%	TM218	99.5	106	87.8	105	101	111
Perylene-d12 % recovery**	%	TM218	93.3	103	80.6	102	95.1	110
Naphthalene	<9 µg/kg	TM218	<9	<9	<9	<9	40.2	43.2
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	10.4	17.5
Fluorene	<10 µg/kg	TM218	<10	<10	<10	<10	37.7	38.1
Phenanthrene	<15 µg/kg	TM218	<15	<15	<15	29.8	94.8	140
Anthracene	<16 µg/kg	TM218	<16	<16	<16	<16	41.5	81.9
Fluoranthene	<17 µg/kg	TM218	<17	<17	<17	<17	118	243
Pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	88.1	193
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	<14	56.1	128
Chrysene	<10 µg/kg	TM218	<10	<10	<10	<10	41.1	95.1
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	<15	56.8	120
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	19.4	49.3
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	38.8	112
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	<18	49.8
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	<24	60
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	<118	<118	642	1370



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH228	BH228	BH228	BH228	BH229	BH229
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	7.00 - 8.00	8.00 - 10.00	0.00 - 0.50	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146689	19146690	19146692	19146693	19146700	19146702
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	108	96.7	105	113	104	96.8
Acenaphthene-d10 % recovery**	%	TM218	107	98.6	104	108	107	99.5
Phenanthrene-d10 % recovery**	%	TM218	102	99.7	95.3	98.1	105	97.2
Chrysene-d12 % recovery**	%	TM218	98.3	96.3	97.9	97.1	95.2	99.6
Perylene-d12 % recovery**	%	TM218	92.4	89.6	95.8	95.1	98	94
Naphthalene	<9 µg/kg	TM218	57.8	20.8	<9	<9	16300	31.7
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	314	<12
Acenaphthene	<8 µg/kg	TM218	62.4	<8	<8	<8	18500	20
Fluorene	<10 µg/kg	TM218	98	20.7	<10	<10	16000	39.3
Phenanthrene	<15 µg/kg	TM218	574	64.8	<15	<15	80200	153
Anthracene	<16 µg/kg	TM218	192	32.1	<16	<16	17500	63.5
Fluoranthene	<17 µg/kg	TM218	491	74.3	<17	<17	62400	317
Pyrene	<15 µg/kg	TM218	493	58.8	<15	<15	52900	273
Benz(a)anthracene	<14 µg/kg	TM218	265	32.5	<14	<14	20300	160
Chrysene	<10 µg/kg	TM218	237	24.7	<10	<10	17000	138
Benzo(b)fluoranthene	<15 µg/kg	TM218	296	25	<15	<15	19000	195
Benzo(k)fluoranthene	<14 µg/kg	TM218	98	<14	<14	<14	7280	67.9
Benzo(a)pyrene	<15 µg/kg	TM218	233	20.1	<15	<15	19200	142
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	85.9	<18	<18	<18	9560	62.7
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	32.2	<23	<23	<23	2890	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	130	<24	<24	<24	12800	83.7
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	3340	374	<118	<118	372000	1750



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH229	BH229	BH229	BH229	BH229	BH229
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146711	19146712	19146713	19146716	19146703	19146704
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	118	115	111	115	105	119
Acenaphthene-d10 % recovery**	%	TM218	114	114	49.8	110	104	114
Phenanthrene-d10 % recovery**	%	TM218	106	104	97.1	104	101	105
Chrysene-d12 % recovery**	%	TM218	104	108	95.5	107	103	115
Perylene-d12 % recovery**	%	TM218	101	107	87.6	98.3	103	113
Naphthalene	<9 µg/kg	TM218	<9	<9	<9	<9	<9	25
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	<8	10.3
Fluorene	<10 µg/kg	TM218	<10	<10	<10	<10	14.4	21.9
Phenanthrene	<15 µg/kg	TM218	<15	<15	<15	26.8	62.9	85.7
Anthracene	<16 µg/kg	TM218	<16	<16	<16	<16	24.4	42.8
Fluoranthene	<17 µg/kg	TM218	<17	<17	<17	<17	110	132
Pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	96.2	113
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	<14	54.3	72.7
Chrysene	<10 µg/kg	TM218	<10	<10	<10	<10	51.9	57.4
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	<15	65.8	77.8
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	26.5	27
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	47.1	57.5
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	40.4	27.3
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	<24	36.9
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	<118	<118	594	788



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH229	BH229	BH229			
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	7.00 - 9.00			
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
		Date Sampled	16/01/2019	16/01/2019	16/01/2019			
		Date Received	18/01/2019	18/01/2019	18/01/2019			
		SDG Ref	190118-133	190118-133	190118-133			
		Lab Sample No.(s)	19146705	19146706	19146708			
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	106	97	116			
Acenaphthene-d10 % recovery**	%	TM218	106	91	115			
Phenanthrene-d10 % recovery**	%	TM218	100	101	104			
Chrysene-d12 % recovery**	%	TM218	101	100	103			
Perylene-d12 % recovery**	%	TM218	99.8	95.8	104			
Naphthalene	<9 µg/kg	TM218	17.2	34.6	<9			
			M	M	#			
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12			
			M	M	#			
Acenaphthene	<8 µg/kg	TM218	<8	10.7	<8			
			M	M	#			
Fluorene	<10 µg/kg	TM218	13.9	24.5	<10			
			M	M	#			
Phenanthrene	<15 µg/kg	TM218	45.5	116	<15			
			M	M	#			
Anthracene	<16 µg/kg	TM218	<16	92.2	<16			
			M	M	#			
Fluoranthene	<17 µg/kg	TM218	50.4	254	<17			
			M	M	#			
Pyrene	<15 µg/kg	TM218	42.9	185	<15			
			M	M	#			
Benz(a)anthracene	<14 µg/kg	TM218	28.9	159	<14			
			M	M	#			
Chrysene	<10 µg/kg	TM218	25.6	121	<10			
			M	M	#			
Benzo(b)fluoranthene	<15 µg/kg	TM218	30.2	141	<15			
			M	M	#			
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	54.8	<14			
			M	M	#			
Benzo(a)pyrene	<15 µg/kg	TM218	<15	95.6	<15			
			M	M	#			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	37.2	<18			
			M	M	#			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23			
			M	M	#			
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	44	<24			
			M	M	#			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	255	1370	<118			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH226	BH226	BH226	BH226	BH226	BH226
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00 - 2.00	10.00 - 12.00	13.00 - 14.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
diss.filt	Dissolved / filtered sample.		18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
tot.unfilt	Total / unfiltered sample.		190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
*	Subcontracted - refer to subcontractor report for accreditation status.		19146652	19146661	19146663	19146665	19146653	19146654
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	93.1	104	49	20.8	96.7	115
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	6070	2350	3450 @	4180 @ M	26600	31400
Aliphatics >C5-C6	<10 µg/kg	TM089	33.9	<10	14.4 @	51 @	39	44.5
Aliphatics >C6-C8	<10 µg/kg	TM089	220	40.3	73.3 @	114 @	231	295
Aliphatics >C8-C10	<10 µg/kg	TM089	1830	500	891 @	1040 @	6470	9020
Aliphatics >C10-C12	<10 µg/kg	TM089	1650	880	1120 @	1370 @	9310	9610
Aliphatics >C12-C16	<100 µg/kg	TM173	186	<100	<100	358	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	2470	<100	<100	2940	1460	1350
Aliphatics >C21-C35	<100 µg/kg	TM173	16800	3520	<100	41300	18500	24500
Aliphatics >C35-C44	<100 µg/kg	TM173	2180	<100	<100	8080	3680	3560
Total Aliphatics >C12-C44	<100 µg/kg	TM173	21600	3520	<100	52700	23600	29500
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10 @	<10 @	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10 @	<10 @	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	1220	333	594 @	690 @	4320	6010
Aromatics >EC10-EC12	<10 µg/kg	TM089	1100	586	749 @	915 @	6200	6410
Aromatics >EC12-EC16	<100 µg/kg	TM173	1010	<100	<100	886	1380	1440
Aromatics >EC16-EC21	<100 µg/kg	TM173	8600	<100	<100	1560	8540	11100
Aromatics >EC21-EC35	<100 µg/kg	TM173	32300	<100	<100	10700	27200	50800
Aromatics >EC35-EC44	<100 µg/kg	TM173	7260	<100	<100	1390	4610	9040
Aromatics >EC40-EC44	<100 µg/kg	TM173	2130	<100	<100	<100	957	1460
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	49100	<100	<100	14500	41700	72300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	76800	5850	3450	71400	91900	133000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH226	BH226	BH226	BH227	BH227	BH227
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.30 - 5.00	6.00 - 7.00	8.00 - 9.00	0.50 - 1.00	1.00 - 2.00	12.00 - 13.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146655	19146657	19146659	19146667	19146668	19146680
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	100	102	106	113	84.3	33.8
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	1040	9130	2670	2500 @	1630	170 @
Aliphatics >C5-C6	<10 µg/kg	TM089	17.9	27.6	10.1	53.6 @ M	31.9	25.8 @
Aliphatics >C6-C8	<10 µg/kg	TM089	50	145	48.2	58.1 @	86.5	39.2 @
Aliphatics >C8-C10	<10 µg/kg	TM089	202	2600	548	515 @	427	31.4 @
Aliphatics >C10-C12	<10 µg/kg	TM089	377	2780	1020	906 @	480	31.4 @
Aliphatics >C12-C16	<100 µg/kg	TM173	691	<100	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	2990	<100	<100	2590	1560	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	17000	6040	5630	38100	18700	2460
Aliphatics >C35-C44	<100 µg/kg	TM173	1850	<100	<100	6760	2230	300
Total Aliphatics >C12-C44	<100 µg/kg	TM173	22600	6040	5630	47400	22400	2760
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10 @	<10	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	17.1 @	<10	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	136	1730	365	343 @	285	21.3 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	251	1850	678	604 @	321	21.3 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	1350	<100	<100	741	1400	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	8500	2520	<100	4870	9960	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	31100	9690	<100	31300	44400	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	5710	1410	<100	<100	10400	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	1350	<100	<100	<100	3210	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	46600	13600	<100	36900	66200	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	70200	28800	8290	86800	90200	2890



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH227	BH227	BH227	BH227	BH227	BH227
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	14.00 - 15.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146682	19146683	19146669	19146670	19146671	19146672
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	22	32	79.9	88.6	91.8	107
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	609 @ M	704 @ M	8490	2700	1080	22900
Aliphatics >C5-C6	<10 µg/kg	TM089	13 @	46.3 @	41.9	37.2	25.1	28.3
Aliphatics >C6-C8	<10 µg/kg	TM089	53 @	130 @	135	124	67.3	108
Aliphatics >C8-C10	<10 µg/kg	TM089	109 @	137 @	1780	618	234	3840
Aliphatics >C10-C12	<10 µg/kg	TM089	197 @	171 @	3210	904	355	9850
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	423	414	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	694	1740	2830	4910	5090
Aliphatics >C21-C35	<100 µg/kg	TM173	9820	9570	18500	18400	39500	62600
Aliphatics >C35-C44	<100 µg/kg	TM173	2060	1830	3940	2420	5800	10400
Total Aliphatics >C12-C44	<100 µg/kg	TM173	11900	12500	24600	23700	50200	78200
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	33.5 @	14.7 @	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	72.4 @	91.5 @	1190	412	156	2560
Aromatics >EC10-EC12	<10 µg/kg	TM089	131 @	114 @	2140	603	236	6570
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	1620	2310	1530	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	10200	15800	27300	5100
Aromatics >EC21-EC35	<100 µg/kg	TM173	4470	<100	35800	53700	75100	27000
Aromatics >EC35-EC44	<100 µg/kg	TM173	534	<100	4200	9130	3340	3350
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	1650	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	5010	<100	51700	80900	107000	35500
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	17500	13200	84900	107000	158000	137000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH228	BH228	BH228	BH228	BH228	BH228
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 11.00	11.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146694	19146695	19146696	19146698	19146687	19146688
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	115	109	35.6	16.5	104	106
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	<100	<100	<100	1140	2570
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	21.6	<10	59.9	26
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10	23.8	<10	71.2	81.9
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10	17.3	<10	263	532
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10	11.9	<10	342	944
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	809	2030	610	<100	359
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	896	1540	1530	2760	2810
Aliphatics >C21-C35	<100 µg/kg	TM173	2390	8750	22200	36500	27200	14800
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	1720	7330	9690	6420	1690
Total Aliphatics >C12-C44	<100 µg/kg	TM173	2390	12200	33100	48300	36300	19600
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10	10.8	<10	175	355
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	<10	<10	228	629
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	118	<100	<100	1670	1910
Aromatics >EC16-EC21	<100 µg/kg	TM173	825	281	1130	1080	9120	13000
Aromatics >EC21-EC35	<100 µg/kg	TM173	4430	2360	8370	13500	40200	44600
Aromatics >EC35-EC44	<100 µg/kg	TM173	124	<100	1750	2470	9070	7090
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	2570	1250
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	5380	2760	11300	17000	60000	66600
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	7780	14900	44400	65300	97500	88800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH229	BH229	BH229	BH229	BH229	BH229
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
diss.filt	Dissolved / filtered sample.		18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
tot.unfilt	Total / unfiltered sample.		190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
*	Subcontracted - refer to subcontractor report for accreditation status.		19146711	19146712	19146713	19146716	19146703	19146704
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	93.2 @	93.5 @	26	17.4 @	94.6	92
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	1270 @ M	528 @ M	425 M	169 @ M	27400	11900
Aliphatics >C5-C6	<10 µg/kg	TM089	36.9 @	32.5 @	<10	20.7 @	33.5	20.7
Aliphatics >C6-C8	<10 µg/kg	TM089	35.7 @	32.5 @	34.8	23.9 @	219	140
Aliphatics >C8-C10	<10 µg/kg	TM089	255 @	91.3 @	103	30.5 @	5720	3360
Aliphatics >C10-C12	<10 µg/kg	TM089	465 @	186 @	126	44.6 @	10500	3690
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	437	5110	2500	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	445	5090	11600	3610
Aliphatics >C21-C35	<100 µg/kg	TM173	5000	<100	7750	26800	281000	114000
Aliphatics >C35-C44	<100 µg/kg	TM173	2750	<100	934	6090	78000	24100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	7740	<100	9570	43100	373000	141000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10	<10 @	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10	<10 @	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	169 @	61.3 @	68.4	20.7 @	3810	2240
Aromatics >EC10-EC12	<10 µg/kg	TM089	311 @	124 @	83.5	29.4 @	7030	2460
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	335	<100	740	1670
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	369	1910	10200	11800
Aromatics >EC21-EC35	<100 µg/kg	TM173	1940	<100	1820	8110	107000	76900
Aromatics >EC35-EC44	<100 µg/kg	TM173	6060	<100	122	1480	19000	19100
Aromatics >EC40-EC44	<100 µg/kg	TM173	3330	<100	<100	251	1220	5200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	8000	<100	2640	11500	137000	109000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	17000	528	12600	54700	537000	263000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH225	BH225	BH225	BH225	BH225	BH225
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 17.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146636	19146637	19146645	19146646	19146647	19146649
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	106	115	116	119	104	103
Toluene-d8**	%	TM116	93.2	105	95	101	100	101
4-Bromofluorobenzene**	%	TM116	75.4	84.3	86.5	77.6	95.2	95.3
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<100	<10	<200	<2000	<2000
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<9	<90	<9	<180	<1800	<1800
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<7	<70	<7	<140	<1400	<1400
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<4	<40	<4	<80	<800	<800
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<10	<100	<10	<200	<2000	<2000
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<10	<100	<10	<200	<2000	<2000
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.02	<0.2	<0.02	<0.4	<4	<4
Sum of BTEX	<40 µg/kg	TM116	<40	<400	<40	<800	<8000	<8000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH226	BH226	BH226	BH227	BH227	BH227
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.30 - 5.00	6.00 - 7.00	8.00 - 9.00	0.50 - 1.00	1.00 - 2.00	12.00 - 13.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146655	19146657	19146659	19146667	19146668	19146680
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	112	115	117	108	108	103
						@	@	@
Toluene-d8**	%	TM116	98.3	101	100	98.9	102	98.9
						@	@	@
4-Bromofluorobenzene**	%	TM116	74.2	73.1	74.8	93.7	90.5	90.8
						@	@	@
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<10	<10	<200	<200	<200
			M	M	M	@ M	@ M	@ M
Benzene	<9 µg/kg	TM116	<9	<9	<9	<180	<180	<180
			M	M	M	@ M	@ M	@ M
Toluene	<7 µg/kg	TM116	<7	<7	<7	<140	<140	<140
			M	M	M	@ M	@ M	@ M
Ethylbenzene	<4 µg/kg	TM116	<4	<4	<4	<80	<80	<80
			M	M	M	@ M	@ M	@ M
p/m-Xylene	<10 µg/kg	TM116	<10	<10	<10	<200	<200	<200
			#	#	#	@ #	@ #	@ #
o-Xylene	<10 µg/kg	TM116	<10	<10	<10	<200	<200	<200
			M	M	M	@ M	@ M	@ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.02	<0.02	<0.02	<0.4	<0.4	<0.4
						@	@	@
Sum of BTEX	<40 µg/kg	TM116	<40	<40	<40	<800	<800	<800
						@	@	@



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH227	BH227	BH227	BH227	BH227	BH227
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	14.00 - 15.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146682	19146683	19146669	19146670	19146671	19146672
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	106 @	110 @	117 @	110 @	110 @	109 @
Toluene-d8**	%	TM116	90.9 @	97 @	98.9 @	102 @	100 @	99.8 @
4-Bromofluorobenzene**	%	TM116	79.6 @	75.1 @	89.3 @	90 @	88.9 @	91.9 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Benzene	<9 µg/kg	TM116	<180 @ M	<180 @ M	<180 @ M	<180 @ M	<180 @ M	<180 @ M
Toluene	<7 µg/kg	TM116	320 @ M	<140 @ M	<140 @ M	<140 @ M	<140 @ M	<140 @ M
Ethylbenzene	<4 µg/kg	TM116	<80 @ M	<80 @ M	<80 @ M	<80 @ M	<80 @ M	<80 @ M
p/m-Xylene	<10 µg/kg	TM116	<200 @ #	<200 @ #	<200 @ #	<200 @ #	<200 @ #	<200 @ #
o-Xylene	<10 µg/kg	TM116	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M	<200 @ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<800 @	<800 @	<800 @	<800 @	<800 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH227	BH227	BH227	BH228	BH228	BH228
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	8.00 - 9.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146673	19146676	19146677	19146684	19146685	19146686
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	125	118	129	110	110	108
Toluene-d8**	%	TM116	99.2	101	99.4	99.9	100	100
4-Bromofluorobenzene**	%	TM116	75.1	83.1	86	92.9	88	89.6
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<10	<10	<200	<200	<200
Benzene	<9 µg/kg	TM116	<9	<9	<9	<180	<180	<180
Toluene	<7 µg/kg	TM116	<7	<7	<7	<140	<140	<140
Ethylbenzene	<4 µg/kg	TM116	<4	<4	<4	<80	<80	<80
p/m-Xylene	<10 µg/kg	TM116	<10	<10	<10	<200	<200	<200
o-Xylene	<10 µg/kg	TM116	<10	<10	<10	<200	<200	<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.02	<0.02	<0.02	<0.4	<0.4	<0.4
Sum of BTEX	<40 µg/kg	TM116	<40	<40	<40	<800	<800	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH228	BH228	BH228	BH228	BH228	BH228
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 11.00	11.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146694	19146695	19146696	19146698	19146687	19146688
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	105	110	110	109	104	110
Toluene-d8**	%	TM116	97.9	96.6	99.6	99.1	101	100
4-Bromofluorobenzene**	%	TM116	88.4	80.5	84	82.3	94.7	90.7
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<10	<200	<200	<200	<200
Benzene	<9 µg/kg	TM116	<9	<9	<180	<180	<180	<180
Toluene	<7 µg/kg	TM116	<7	<7	<140	<140	<140	<140
Ethylbenzene	<4 µg/kg	TM116	<4	<4	<80	<80	<80	<80
p/m-Xylene	<10 µg/kg	TM116	<10	<10	<200	<200	<200	<200
o-Xylene	<10 µg/kg	TM116	<10	<10	<200	<200	<200	<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.02	<0.02	<0.4	<0.4	<0.4	<0.4
Sum of BTEX	<40 µg/kg	TM116	<40	<40	<800	<800	<800	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH228	BH228	BH228	BH228	BH229	BH229
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	7.00 - 8.00	8.00 - 10.00	0.00 - 0.50	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146689	19146690	19146692	19146693	19146700	19146702
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	109	108	108	119	108	110
Toluene-d8**	%	TM116	101	99.7	100	100	101	100
4-Bromofluorobenzene**	%	TM116	88.8	92.2	86.7	71.1	82.6	85.6
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<200	<200	<10	<200	<200
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<180	<180	<180	<9	<180	<180
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<140	<140	<140	<7	<140	<140
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<80	<80	<80	<4	<80	<80
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<200	<200	<200	<10	<200	<200
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<200	<200	<200	<10	<200	<200
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.4	<0.4	<0.02	<0.4	<0.4
Sum of BTEX	<40 µg/kg	TM116	<800	<800	<800	<40	<800	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH229	BH229	BH229	BH229	BH229	BH229
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
		Date Received	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019	18/01/2019
		SDG Ref	190118-133	190118-133	190118-133	190118-133	190118-133	190118-133
		Lab Sample No.(s)	19146711	19146712	19146713	19146716	19146703	19146704
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	150	115	111	110	109	97.3
Toluene-d8**	%	TM116	102	102	100	95.6	100	87.7
4-Bromofluorobenzene**	%	TM116	85	81.9	89.6	70.4	92	71.9
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<10	<200	<200	<200	<10
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<9	<9	<180	<180	<180	<9
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<7	<7	<140	<140	<140	<7
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<4	<4	<80	<80	<80	<4
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<10	<10	<200	<200	<200	<10
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<10	<10	<200	<200	<200	<10
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.02	<0.02	<0.4	<0.4	<0.4	<0.02
Sum of BTEX	<40 µg/kg	TM116	<40	<40	<800	<800	<800	<40



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+§@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
24/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 0.50 - 1.00 SOLID 14/01/2019 00:00:00 20/01/2019 08:38:03 190118-133 19,146,636 TM048								
24/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 1.00 - 2.00 SOLID 14/01/2019 00:00:00 20/01/2019 14:49:06 190118-133 19,146,637 TM048								
24/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 1.00 - 2.00 SOLID 14/01/2019 00:00:00 20/01/2019 11:44:30 190118-133 19,146,645 TM048								
24/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 12.00 - 13.00 SOLID 14/01/2019 00:00:00 20/01/2019 11:38:06 190118-133 19,146,646 TM048								
24/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 13.00 - 14.00 SOLID 14/01/2019 00:00:00 20/01/2019 11:02:20 190118-133 19,146,647 TM048								



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 15.00 - 17.00 SOLID 14/01/2019 00:00:00 20/01/2019 11:01:15 190118-133 19,146,649 TM048	24/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 2.00 - 3.00 SOLID 14/01/2019 00:00:00 20/01/2019 08:36:46 190118-133 19,146,638 TM048	24/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 3.00 - 4.00 SOLID 14/01/2019 00:00:00 20/01/2019 08:39:37 190118-133 19,146,639 TM048	24/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 4.00 - 5.00 SOLID 14/01/2019 00:00:00 20/01/2019 14:48:00 190118-133 19,146,640 TM048	24/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 5.00 - 6.00 SOLID 14/01/2019 00:00:00 20/01/2019 14:46:39 190118-133 19,146,641 TM048	24/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH225 NS Z 8.00 - 9.00 SOLID 14/01/2019 00:00:00 20/01/2019 11:39:57 190118-133 19,146,643 TM048	24/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



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Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 0.00 - 0.50 SOLID 15/01/2019 00:00:00 23/01/2019 15:23:07 190118-133 19,146,650 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 0.00 - 0.50 SOLID 15/01/2019 00:00:00 23/01/2019 16:04:16 190118-133 19,146,652 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 1.00 - 2.00 SOLID 15/01/2019 00:00:00 23/01/2019 14:28:25 190118-133 19,146,661 TM048	28/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 13.00 - 14.00 SOLID 15/01/2019 00:00:00 26/01/2019 12:49:40 190118-133 19,146,663 TM048	28/01/2019	Paul Poynton	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 15.00 - 17.00 SOLID 15/01/2019 00:00:00 23/01/2019 14:27:14 190118-133 19,146,665 TM048	29/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 2.00 - 3.00 SOLID 15/01/2019 00:00:00 23/01/2019 16:02:22 190118-133 19,146,653 TM048	29/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



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Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 3.00 - 4.00 SOLID 15/01/2019 00:00:00 23/01/2019 16:03:26 190118-133 19,146,654 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 4.30 - 5.00 SOLID 15/01/2019 00:00:00 23/01/2019 15:26:15 190118-133 19,146,655 TM048	28/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 6.00 - 7.00 SOLID 15/01/2019 00:00:00 24/01/2019 06:39:27 190118-133 19,146,657 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH226 NS Z 8.00 - 9.00 SOLID 15/01/2019 00:00:00 23/01/2019 15:17:04 190118-133 19,146,659 TM048	29/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 0.50 - 1.00 SOLID 15/01/2019 00:00:00 23/01/2019 14:26:11 190118-133 19,146,667 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 1.00 - 2.00 SOLID 15/01/2019 00:00:00 23/01/2019 14:43:56 190118-133 19,146,668 TM048	29/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 12.00 - 13.00 SOLID 15/01/2019 00:00:00 23/01/2019 14:22:10 190118-133 19,146,680 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 14.00 - 15.00 SOLID 15/01/2019 00:00:00 23/01/2019 13:38:07 190118-133 19,146,682 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 15.00 - 17.00 SOLID 15/01/2019 00:00:00 23/01/2019 13:45:00 190118-133 19,146,683 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 2.00 - 3.00 SOLID 15/01/2019 00:00:00 23/01/2019 14:42:14 190118-133 19,146,669 TM048	29/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 3.00 - 4.00 SOLID 15/01/2019 00:00:00 23/01/2019 14:39:19 190118-133 19,146,670 TM048	29/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 4.00 - 5.00 SOLID 15/01/2019 00:00:00 23/01/2019 16:55:47 190118-133 19,146,671 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



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Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 5.00 - 6.00 SOLID 15/01/2019 00:00:00 23/01/2019 17:32:10 190118-133 19,146,672 TM048	29/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 6.00 - 7.00 SOLID 15/01/2019 00:00:00 23/01/2019 15:55:42 190118-133 19,146,673 TM048	28/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 8.00 - 9.00 SOLID 15/01/2019 00:00:00 23/01/2019 15:24:52 190118-133 19,146,676 TM048	28/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH227 NS Z 9.00 - 11.00 SOLID 15/01/2019 00:00:00 23/01/2019 15:54:30 190118-133 19,146,677 TM048	28/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 0.00 - 0.50 SOLID 15/01/2019 00:00:00 23/01/2019 14:37:11 190118-133 19,146,684 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 0.50 - 1.00 SOLID 15/01/2019 00:00:00 23/01/2019 13:39:23 190118-133 19,146,685 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 1.00 - 2.00 SOLID 15/01/2019 00:00:00 23/01/2019 14:36:19 190118-133 19,146,686 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 10.00 - 11.00 SOLID 16/01/2019 00:00:00 23/01/2019 13:47:45 190118-133 19,146,694 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 11.00 - 13.00 SOLID 16/01/2019 00:00:00 23/01/2019 13:50:26 190118-133 19,146,695 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 13.00 - 14.00 SOLID 16/01/2019 00:00:00 24/01/2019 06:42:16 190118-133 19,146,696 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 15.00 - 16.00 SOLID 16/01/2019 00:00:00 23/01/2019 16:53:46 190118-133 19,146,698 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 2.00 - 3.00 SOLID 16/01/2019 00:00:00 23/01/2019 14:24:39 190118-133 19,146,687 TM048	28/01/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



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Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 3.00 - 4.00 SOLID 16/01/2019 00:00:00 23/01/2019 15:09:58 190118-133 19,146,688 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 3.00 - 4.00 SOLID 16/01/2019 00:00:00 23/01/2019 15:08:12 190118-133 19,146,689 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 4.00 - 5.00 SOLID 16/01/2019 00:00:00 26/01/2019 12:10:59 190118-133 19,146,690 TM048	29/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 7.00 - 8.00 SOLID 16/01/2019 00:00:00 23/01/2019 14:32:41 190118-133 19,146,692 TM048	28/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH228 NS Z 8.00 - 10.00 SOLID 16/01/2019 00:00:00 24/01/2019 06:43:50 190118-133 19,146,693 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 0.00 - 0.50 SOLID 16/01/2019 00:00:00 23/01/2019 15:13:23 190118-133 19,146,700 TM048	29/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 1.00 - 2.00 SOLID 16/01/2019 00:00:00 23/01/2019 14:38:49 190118-133 19,146,702 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 11.00 - 12.00 SOLID 16/01/2019 00:00:00 23/01/2019 16:51:56 190118-133 19,146,711 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 12.00 - 13.00 SOLID 16/01/2019 00:00:00 23/01/2019 16:55:07 190118-133 19,146,712 TM048	28/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 13.00 - 13.00 SOLID 16/01/2019 00:00:00 23/01/2019 15:12:09 190118-133 19,146,713 TM048	28/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 15.00 - 16.00 SOLID 16/01/2019 00:00:00 23/01/2019 17:30:47 190118-133 19,146,716 TM048	28/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 2.00 - 3.00 SOLID 16/01/2019 00:00:00 23/01/2019 17:34:37 190118-133 19,146,703 TM048	28/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 3.00 - 4.00 SOLID 16/01/2019 00:00:00 23/01/2019 14:40:38 190118-133 19,146,704 TM048	28/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 4.00 - 5.00 SOLID 16/01/2019 00:00:00 26/01/2019 12:09:30 190118-133 19,146,705 TM048	29/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 5.00 - 6.00 SOLID 16/01/2019 00:00:00 23/01/2019 15:15:35 190118-133 19,146,706 TM048	28/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH229 NS Z 7.00 - 9.00 SOLID 16/01/2019 00:00:00 23/01/2019 14:47:16 190118-133 19,146,708 TM048	29/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146636
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.13
Loss on Ignition (%)	1.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.0560
ANC to pH 4 (mol/kg)	0.201

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00604	<0.0005	0.0604	<0.005	0.5	2	25
Barium	0.0214	<0.0002	0.214	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00246	<0.0003	0.0246	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0259	<0.003	0.259	<0.03	0.5	10	30
Nickel	0.00127	<0.0004	0.0127	<0.004	0.4	10	40
Lead	0.000433	<0.0002	0.00433	<0.002	0.5	10	50
Antimony	0.00399	<0.001	0.0399	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0028	<0.001	0.028	<0.01	4	50	200
Chloride	3.7	<2	37	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	68.1	<2	681	<20	1000	20000	50000
Total Dissolved Solids	191	<5	1910	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.17	<3	51.7	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	7.82
Conductivity (µS/cm)	248
Temperature (°C)	18.20
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:05:52



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146636
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.13
Loss on Ignition (%)	1.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.0560
ANC to pH 4 (mol/kg)	0.201

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	7.82
Conductivity (µS/cm)	248
Temperature (°C)	18.20
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 05/04/2019 15:05:52



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146637
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.57
Loss on Ignition (%)	3.66
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0581
ANC to pH 4 (mol/kg)	0.347

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00536	<0.0005	0.0536	<0.005	0.5	2	25
Barium	0.00699	<0.0002	0.0699	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0275	<0.003	0.275	<0.03	0.5	10	30
Nickel	0.00109	<0.0004	0.0109	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00259	<0.001	0.0259	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	5.7	<2	57	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	48.2	<2	482	<20	1000	20000	50000
Total Dissolved Solids	189	<5	1890	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.76	<3	97.6	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.22
Conductivity (µS/cm)	241
Temperature (°C)	18.20
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:05:52



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.122	Natural Moisture Content (%)	35.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	74.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146637
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.57
Loss on Ignition (%)	3.66
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0581
ANC to pH 4 (mol/kg)	0.347

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.22
Conductivity (µS/cm)	241
Temperature (°C)	18.20
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:05:52



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146638
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.30
Loss on Ignition (%)	6.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.24
ANC to pH 6 (mol/kg)	0.0914
ANC to pH 4 (mol/kg)	0.551

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00787	<0.0005	0.0787	<0.005	0.5	2	25
Barium	0.00519	<0.0002	0.0519	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0314	<0.003	0.314	<0.03	0.5	10	30
Nickel	0.00107	<0.0004	0.0107	<0.004	0.4	10	40
Lead	0.000459	<0.0002	0.00459	<0.002	0.5	10	50
Antimony	0.00215	<0.001	0.0215	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00204	<0.001	0.0204	<0.01	4	50	200
Chloride	10.5	<2	105	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	27	<2	270	<20	1000	20000	50000
Total Dissolved Solids	227	<5	2270	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	12.6	<3	126	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	7.52
Conductivity (µS/cm)	292
Temperature (°C)	17.90
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:05:52



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146638
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.30
Loss on Ignition (%)	6.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.24
ANC to pH 6 (mol/kg)	0.0914
ANC to pH 4 (mol/kg)	0.551

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	7.52
Conductivity (µS/cm)	292
Temperature (°C)	17.90
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:05:52



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146639
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	9.35
Loss on Ignition (%)	7.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0784
ANC to pH 4 (mol/kg)	0.320

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00943	<0.0005	0.0943	<0.005	0.5	2	25
Barium	0.00489	<0.0002	0.0489	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0495	<0.003	0.495	<0.03	0.5	10	30
Nickel	0.00116	<0.0004	0.0116	<0.004	0.4	10	40
Lead	0.000441	<0.0002	0.00441	<0.002	0.5	10	50
Antimony	0.00457	<0.001	0.0457	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00117	<0.001	0.0117	<0.01	4	50	200
Chloride	9.3	<2	93	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	19.3	<2	193	<20	1000	20000	50000
Total Dissolved Solids	221	<5	2210	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.2	<3	132	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	7.42
Conductivity (µS/cm)	292
Temperature (°C)	18.10
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146639
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	9.35
Loss on Ignition (%)	7.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0784
ANC to pH 4 (mol/kg)	0.320

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	7.42
Conductivity (µS/cm)	292
Temperature (°C)	18.10
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146640
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.16
Loss on Ignition (%)	1.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.82
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0516
ANC to pH 4 (mol/kg)	0.0781

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00273	<0.0005	0.0273	<0.005	0.5	2	25
Barium	0.00706	<0.0002	0.0706	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0245	<0.003	0.245	<0.03	0.5	10	30
Nickel	0.00135	<0.0004	0.0135	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00351	<0.001	0.0351	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	3.7	<2	37	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	73.9	<2	739	<20	1000	20000	50000
Total Dissolved Solids	254	<5	2540	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.68	<3	76.8	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.10
Conductivity (µS/cm)	331
Temperature (°C)	18.00
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146640
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.16
Loss on Ignition (%)	1.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.82
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0516
ANC to pH 4 (mol/kg)	0.0781

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.10
Conductivity (µS/cm)	331
Temperature (°C)	18.00
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146641
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.03
Loss on Ignition (%)	1.97
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.18
ANC to pH 6 (mol/kg)	0.0508
ANC to pH 4 (mol/kg)	0.0962

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00376	<0.0005	0.0376	<0.005	0.5	2	25
Barium	0.00515	<0.0002	0.0515	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000803	<0.0003	0.00803	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0273	<0.003	0.273	<0.03	0.5	10	30
Nickel	0.00175	<0.0004	0.0175	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00613	<0.001	0.0613	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	24.2	<2	242	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	5.5	<2	55	<20	1000	20000	50000
Total Dissolved Solids	187	<5	1870	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.2	<3	82	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	241
Temperature (°C)	18.30
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146641
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.03
Loss on Ignition (%)	1.97
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.18
ANC to pH 6 (mol/kg)	0.0508
ANC to pH 4 (mol/kg)	0.0962

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	241
Temperature (°C)	18.30
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.4
Dry Matter Content (%)	90.6

Case	
SDG	190118-133
Lab Sample Number(s)	19146643
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.343
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.32
ANC to pH 6 (mol/kg)	0.0718
ANC to pH 4 (mol/kg)	0.143

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00128	<0.0005	0.0128	<0.005	0.5	2	25
Barium	0.00467	<0.0002	0.0467	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000374	<0.0003	0.00374	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00207	<0.001	0.0207	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	62.9	<2	629	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	13	<2	130	<20	1000	20000	50000
Total Dissolved Solids	215	<5	2150	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.99
Conductivity (µS/cm)	283
Temperature (°C)	18.00
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.4
Dry Matter Content (%)	90.6

Case	
SDG	190118-133
Lab Sample Number(s)	19146643
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.343
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.32
ANC to pH 6 (mol/kg)	0.0718
ANC to pH 4 (mol/kg)	0.143

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.99
Conductivity (µS/cm)	283
Temperature (°C)	18.00
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146645
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.349
Loss on Ignition (%)	0.801
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.41
ANC to pH 6 (mol/kg)	0.0587
ANC to pH 4 (mol/kg)	0.110

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00122	<0.0005	0.0122	<0.005	0.5	2	25
Barium	0.0728	<0.0002	0.728	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00142	<0.001	0.0142	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	177	<2	1770	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	27.2	<2	272	<20	1000	20000	50000
Total Dissolved Solids	512	<5	5120	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.06	<3	30.6	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	9.53
Conductivity (µS/cm)	677
Temperature (°C)	18.30
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146645
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.349
Loss on Ignition (%)	0.801
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.41
ANC to pH 6 (mol/kg)	0.0587
ANC to pH 4 (mol/kg)	0.110

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	9.53
Conductivity (µS/cm)	677
Temperature (°C)	18.30
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.7
Dry Matter Content (%)	90.3

Case	
SDG	190118-133
Lab Sample Number(s)	19146646
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.646
Loss on Ignition (%)	1.21
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.73
ANC to pH 6 (mol/kg)	0.213
ANC to pH 4 (mol/kg)	0.867

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000686	<0.0005	0.00686	<0.005	0.5	2	25
Barium	0.0628	<0.0002	0.628	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0143	<0.003	0.143	<0.03	0.5	10	30
Nickel	0.000727	<0.0004	0.00727	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00267	<0.001	0.0267	<0.01	0.06	0.7	5
Selenium	0.024	<0.001	0.24	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	207	<4	2070	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.7	<2	457	<20	1000	20000	50000
Total Dissolved Solids	605	<5	6050	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.11	<3	31.1	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	6.84
Conductivity (µS/cm)	794
Temperature (°C)	17.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.7
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.3
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146646
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.646
Loss on Ignition (%)	1.21
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.73
ANC to pH 6 (mol/kg)	0.213
ANC to pH 4 (mol/kg)	0.867

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	6.84
Conductivity (µS/cm)	794
Temperature (°C)	17.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.9
Dry Matter Content (%)	90.2

Case	
SDG	190118-133
Lab Sample Number(s)	19146647
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.663
Loss on Ignition (%)	2.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.191
ANC to pH 4 (mol/kg)	1.48

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0464	<0.0002	0.464	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0278	<0.003	0.278	<0.03	0.5	10	30
Nickel	0.000965	<0.0004	0.00965	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00257	<0.001	0.0257	<0.01	0.06	0.7	5
Selenium	0.0352	<0.001	0.352	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	190	<2	1900	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	51	<2	510	<20	1000	20000	50000
Total Dissolved Solids	507	<5	5070	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.13	<3	31.3	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.01
Conductivity (µS/cm)	698
Temperature (°C)	16.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.9
Dry Matter Content (%)	90.2

Case	
SDG	190118-133
Lab Sample Number(s)	19146647
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.663
Loss on Ignition (%)	2.01
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.191
ANC to pH 4 (mol/kg)	1.48

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.01
Conductivity (µS/cm)	698
Temperature (°C)	16.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.49
Dry Matter Content (%)	94.8

Case	
SDG	190118-133
Lab Sample Number(s)	19146649
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.574
Loss on Ignition (%)	1.39
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	61.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.220
ANC to pH 4 (mol/kg)	1.20

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0483	<0.0002	0.483	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000467	<0.0003	0.00467	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0204	<0.003	0.204	<0.03	0.5	10	30
Nickel	0.0012	<0.0004	0.012	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00234	<0.001	0.0234	<0.01	0.06	0.7	5
Selenium	0.0249	<0.001	0.249	<0.01	0.1	0.5	7
Zinc	0.00142	<0.001	0.0142	<0.01	4	50	200
Chloride	137	<2	1370	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.1	<2	411	<20	1000	20000	50000
Total Dissolved Solids	359	<5	3590	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	7.68
Conductivity (µS/cm)	511
Temperature (°C)	18.20
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.095	Natural Moisture Content (%)	5.49
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	94.8
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146649
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH225
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.574
Loss on Ignition (%)	1.39
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	61.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.220
ANC to pH 4 (mol/kg)	1.20

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	7.68
Conductivity (µS/cm)	511
Temperature (°C)	18.20
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.70
Dry Matter Content (%)	92.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146650
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.81
Loss on Ignition (%)	3.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	82.5
PAH Sum of 17 (mg/kg)	35.5
pH (pH Units)	8.17
ANC to pH 6 (mol/kg)	0.0424
ANC to pH 4 (mol/kg)	0.246

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0023	<0.0005	0.023	<0.005	0.5	2	25
Barium	0.034	<0.0002	0.34	<0.002	20	100	300
Cadmium	0.000206	<0.00008	0.00206	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00681	<0.0003	0.0681	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0441	<0.003	0.441	<0.03	0.5	10	30
Nickel	0.001	<0.0004	0.01	<0.004	0.4	10	40
Lead	0.00344	<0.0002	0.0344	<0.002	0.5	10	50
Antimony	0.00136	<0.001	0.0136	<0.01	0.06	0.7	5
Selenium	0.00125	<0.001	0.0125	<0.01	0.1	0.5	7
Zinc	0.0168	<0.001	0.168	<0.01	4	50	200
Chloride	8.3	<2	83	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47.4	<2	474	<20	1000	20000	50000
Total Dissolved Solids	157	<5	1570	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.9	<3	49	<30	500	800	1000

Leach Test Information

Date Prepared	28-Jan-2019
pH (pH Units)	6.67
Conductivity (µS/cm)	206
Temperature (°C)	19.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.70
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146650
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.81
Loss on Ignition (%)	3.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	82.5
PAH Sum of 17 (mg/kg)	35.5
pH (pH Units)	8.17
ANC to pH 6 (mol/kg)	0.0424
ANC to pH 4 (mol/kg)	0.246

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	28-Jan-2019
pH (pH Units)	6.67
Conductivity (µS/cm)	206
Temperature (°C)	19.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146652
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.07
Loss on Ignition (%)	2.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	24.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0603
ANC to pH 4 (mol/kg)	0.193

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00144	<0.0005	0.0144	<0.005	0.5	2	25
Barium	0.00683	<0.0002	0.0683	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000403	<0.0004	0.00403	<0.004	0.4	10	40
Lead	0.000698	<0.0002	0.00698	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	5.7	<2	57	<20	1000	20000	50000
Total Dissolved Solids	49.1	<5	491	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.13	<3	81.3	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.90
Conductivity (µS/cm)	60.7
Temperature (°C)	17.90
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146652
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.07
Loss on Ignition (%)	2.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	24.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0603
ANC to pH 4 (mol/kg)	0.193

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.90
Conductivity (µS/cm)	60.7
Temperature (°C)	17.90
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146653
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.53
Loss on Ignition (%)	3.83
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	33.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0573
ANC to pH 4 (mol/kg)	0.524

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0051	<0.0005	0.051	<0.005	0.5	2	25
Barium	0.00617	<0.0002	0.0617	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0392	<0.003	0.392	<0.03	0.5	10	30
Nickel	0.00181	<0.0004	0.0181	<0.004	0.4	10	40
Lead	0.000311	<0.0002	0.00311	<0.002	0.5	10	50
Antimony	0.00315	<0.001	0.0315	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	7.2	<2	72	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	21.5	<2	215	<20	1000	20000	50000
Total Dissolved Solids	136	<5	1360	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.06	<3	80.6	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	175
Temperature (°C)	18.00
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146653
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.53
Loss on Ignition (%)	3.83
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	33.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0573
ANC to pH 4 (mol/kg)	0.524

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	175
Temperature (°C)	18.00
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146654
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.91
Loss on Ignition (%)	10.4
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.94
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.290

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00195	<0.0005	0.0195	<0.005	0.5	2	25
Barium	0.0367	<0.0002	0.367	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00398	<0.003	0.0398	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00117	<0.001	0.0117	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	6.8	<2	68	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10.9	<2	109	<20	1000	20000	50000
Total Dissolved Solids	138	<5	1380	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.1	<3	111	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.95
Conductivity (µS/cm)	185
Temperature (°C)	17.60
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146654
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.91
Loss on Ignition (%)	10.4
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.94
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.290

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.95
Conductivity (µS/cm)	185
Temperature (°C)	17.60
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146655
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	4.30 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.943
Loss on Ignition (%)	2.45
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.80
ANC to pH 6 (mol/kg)	0.0529
ANC to pH 4 (mol/kg)	0.120

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00408	<0.0005	0.0408	<0.005	0.5	2	25
Barium	0.0306	<0.0002	0.306	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00383	<0.0003	0.0383	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0154	<0.003	0.154	<0.03	0.5	10	30
Nickel	0.00178	<0.0004	0.0178	<0.004	0.4	10	40
Lead	0.00113	<0.0002	0.0113	<0.002	0.5	10	50
Antimony	0.00443	<0.001	0.0443	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00533	<0.001	0.0533	<0.01	4	50	200
Chloride	4.8	<2	48	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.1	<2	411	<20	1000	20000	50000
Total Dissolved Solids	202	<5	2020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.9	<3	109	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	258
Temperature (°C)	17.20
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146655
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	4.30 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.943
Loss on Ignition (%)	2.45
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.80
ANC to pH 6 (mol/kg)	0.0529
ANC to pH 4 (mol/kg)	0.120

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	258
Temperature (°C)	17.20
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146657
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.17
Loss on Ignition (%)	3.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.0553
ANC to pH 4 (mol/kg)	0.176

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00527	<0.0005	0.0527	<0.005	0.5	2	25
Barium	0.0215	<0.0002	0.215	<0.002	20	100	300
Cadmium	0.000313	<0.00008	0.00313	<0.0008	0.04	1	5
Chromium	0.00421	<0.001	0.0421	<0.01	0.5	10	70
Copper	0.0173	<0.0003	0.173	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0249	<0.003	0.249	<0.03	0.5	10	30
Nickel	0.00553	<0.0004	0.0553	<0.004	0.4	10	40
Lead	0.0313	<0.0002	0.313	<0.002	0.5	10	50
Antimony	0.00415	<0.001	0.0415	<0.01	0.06	0.7	5
Selenium	0.001	<0.001	0.01	<0.01	0.1	0.5	7
Zinc	0.0325	<0.001	0.325	<0.01	4	50	200
Chloride	13.5	<2	135	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	19.1	<2	191	<20	1000	20000	50000
Total Dissolved Solids	169	<5	1690	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.35	<3	93.5	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.63
Conductivity (µS/cm)	238
Temperature (°C)	19.60
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146657
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.17
Loss on Ignition (%)	3.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.0553
ANC to pH 4 (mol/kg)	0.176

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.63
Conductivity (µS/cm)	238
Temperature (°C)	19.60
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146659
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.375
Loss on Ignition (%)	1.05
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	72.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.0746
ANC to pH 4 (mol/kg)	0.251

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00421	<0.0005	0.0421	<0.005	0.5	2	25
Barium	0.017	<0.0002	0.17	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00509	<0.0003	0.0509	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.013	<0.003	0.13	<0.03	0.5	10	30
Nickel	0.00119	<0.0004	0.0119	<0.004	0.4	10	40
Lead	0.000697	<0.0002	0.00697	<0.002	0.5	10	50
Antimony	0.00237	<0.001	0.0237	<0.01	0.06	0.7	5
Selenium	0.00195	<0.001	0.0195	<0.01	0.1	0.5	7
Zinc	0.00335	<0.001	0.0335	<0.01	4	50	200
Chloride	38.1	<2	381	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25.6	<2	256	<20	1000	20000	50000
Total Dissolved Solids	186	<5	1860	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.89	<3	38.9	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	9.25
Conductivity (µS/cm)	244
Temperature (°C)	18.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146659
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.375
Loss on Ignition (%)	1.05
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	72.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.0746
ANC to pH 4 (mol/kg)	0.251

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	9.25
Conductivity (µS/cm)	244
Temperature (°C)	18.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190118-133
Lab Sample Number(s)	19146661
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.369
Loss on Ignition (%)	2.39
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.50
ANC to pH 6 (mol/kg)	0.128
ANC to pH 4 (mol/kg)	0.417

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00163	<0.0005	0.0163	<0.005	0.5	2	25
Barium	0.0564	<0.0002	0.564	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00568	<0.003	0.0568	<0.03	0.5	10	30
Nickel	0.000546	<0.0004	0.00546	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00214	<0.001	0.0214	<0.01	0.06	0.7	5
Selenium	0.00254	<0.001	0.0254	<0.01	0.1	0.5	7
Zinc	0.00117	<0.001	0.0117	<0.01	4	50	200
Chloride	72.2	<2	722	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	11.2	<2	112	<20	1000	20000	50000
Total Dissolved Solids	231	<5	2310	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.65	<3	36.5	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	9.28
Conductivity (µS/cm)	303
Temperature (°C)	18.00
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190118-133
Lab Sample Number(s)	19146661
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.369
Loss on Ignition (%)	2.39
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.50
ANC to pH 6 (mol/kg)	0.128
ANC to pH 4 (mol/kg)	0.417

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	9.28
Conductivity (µS/cm)	303
Temperature (°C)	18.00
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146663
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.579
Loss on Ignition (%)	1.11
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.36
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.62
ANC to pH 6 (mol/kg)	0.156
ANC to pH 4 (mol/kg)	0.744

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00129	<0.0005	0.0129	<0.005	0.5	2	25
Barium	0.0637	<0.0002	0.637	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000865	<0.0003	0.00865	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0123	<0.003	0.123	<0.03	0.5	10	30
Nickel	0.0011	<0.0004	0.011	<0.004	0.4	10	40
Lead	0.000473	<0.0002	0.00473	<0.002	0.5	10	50
Antimony	0.00265	<0.001	0.0265	<0.01	0.06	0.7	5
Selenium	0.028	<0.001	0.28	<0.01	0.1	0.5	7
Zinc	0.00224	<0.001	0.0224	<0.01	4	50	200
Chloride	196	<4	1960	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	39.9	<2	399	<20	1000	20000	50000
Total Dissolved Solids	555	<5	5550	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.36	<3	43.6	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.53
Conductivity (µS/cm)	759
Temperature (°C)	18.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146663
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.579
Loss on Ignition (%)	1.11
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.36
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.62
ANC to pH 6 (mol/kg)	0.156
ANC to pH 4 (mol/kg)	0.744

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.53
Conductivity (µS/cm)	759
Temperature (°C)	18.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.58
Dry Matter Content (%)	92.1

Case	
SDG	190118-133
Lab Sample Number(s)	19146665
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.689
Loss on Ignition (%)	3.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.149
ANC to pH 4 (mol/kg)	1.17

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000592	<0.0005	0.00592	<0.005	0.5	2	25
Barium	0.0562	<0.0002	0.562	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000111	<0.00001	0.000111	<0.0001	0.01	0.2	2
Molybdenum	0.019	<0.003	0.19	<0.03	0.5	10	30
Nickel	0.00137	<0.0004	0.0137	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00299	<0.001	0.0299	<0.01	0.06	0.7	5
Selenium	0.0264	<0.001	0.264	<0.01	0.1	0.5	7
Zinc	0.00142	<0.001	0.0142	<0.01	4	50	200
Chloride	143	<2	1430	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	35.1	<2	351	<20	1000	20000	50000
Total Dissolved Solids	384	<5	3840	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.25	<3	32.5	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.44
Conductivity (µS/cm)	541
Temperature (°C)	19.90
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.58
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.1
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146665
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH226
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.689
Loss on Ignition (%)	3.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.149
ANC to pH 4 (mol/kg)	1.17

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.44
Conductivity (µS/cm)	541
Temperature (°C)	19.90
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146667
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.02
Loss on Ignition (%)	3.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	126
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.63
ANC to pH 6 (mol/kg)	0.0380
ANC to pH 4 (mol/kg)	0.138

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00226	<0.0005	0.0226	<0.005	0.5	2	25
Barium	0.0103	<0.0002	0.103	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000832	<0.0003	0.00832	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0173	<0.003	0.173	<0.03	0.5	10	30
Nickel	0.000818	<0.0004	0.00818	<0.004	0.4	10	40
Lead	0.000203	<0.0002	0.00203	<0.002	0.5	10	50
Antimony	0.00259	<0.001	0.0259	<0.01	0.06	0.7	5
Selenium	0.00154	<0.001	0.0154	<0.01	0.1	0.5	7
Zinc	0.00134	<0.001	0.0134	<0.01	4	50	200
Chloride	9.5	<2	95	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	43.4	<2	434	<20	1000	20000	50000
Total Dissolved Solids	185	<5	1850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.65	<3	56.5	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.59
Conductivity (µS/cm)	244
Temperature (°C)	19.10
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146667
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.02
Loss on Ignition (%)	3.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	126
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.63
ANC to pH 6 (mol/kg)	0.0380
ANC to pH 4 (mol/kg)	0.138

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.59
Conductivity (µS/cm)	244
Temperature (°C)	19.10
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146668
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.96
Loss on Ignition (%)	3.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.92
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.69
ANC to pH 6 (mol/kg)	0.0464
ANC to pH 4 (mol/kg)	0.313

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00668	<0.0005	0.0668	<0.005	0.5	2	25
Barium	0.00798	<0.0002	0.0798	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0273	<0.003	0.273	<0.03	0.5	10	30
Nickel	0.001	<0.0004	0.01	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00149	<0.001	0.0149	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00341	<0.001	0.0341	<0.01	4	50	200
Chloride	6.2	<2	62	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	72.1	<2	721	<20	1000	20000	50000
Total Dissolved Solids	212	<5	2120	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.03	<3	80.3	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.64
Conductivity (µS/cm)	291
Temperature (°C)	17.90
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146668
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.96
Loss on Ignition (%)	3.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.92
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.69
ANC to pH 6 (mol/kg)	0.0464
ANC to pH 4 (mol/kg)	0.313

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.64
Conductivity (µS/cm)	291
Temperature (°C)	17.90
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146669
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.17
Loss on Ignition (%)	7.11
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	96.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.61
ANC to pH 6 (mol/kg)	0.0577
ANC to pH 4 (mol/kg)	0.638

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00445	<0.0005	0.0445	<0.005	0.5	2	25
Barium	0.00867	<0.0002	0.0867	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0232	<0.003	0.232	<0.03	0.5	10	30
Nickel	0.00105	<0.0004	0.0105	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00251	<0.001	0.0251	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	14.4	<2	144	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	31.5	<2	315	<20	1000	20000	50000
Total Dissolved Solids	209	<5	2090	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.6	<3	106	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.31
Conductivity (µS/cm)	275
Temperature (°C)	18.30
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146669
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.17
Loss on Ignition (%)	7.11
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	96.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.61
ANC to pH 6 (mol/kg)	0.0577
ANC to pH 4 (mol/kg)	0.638

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.31
Conductivity (µS/cm)	275
Temperature (°C)	18.30
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146670
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.74
Loss on Ignition (%)	7.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.0830
ANC to pH 4 (mol/kg)	0.539

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00221	<0.0005	0.0221	<0.005	0.5	2	25
Barium	0.00667	<0.0002	0.0667	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00414	<0.0003	0.0414	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0322	<0.003	0.322	<0.03	0.5	10	30
Nickel	0.00231	<0.0004	0.0231	<0.004	0.4	10	40
Lead	0.000414	<0.0002	0.00414	<0.002	0.5	10	50
Antimony	0.00371	<0.001	0.0371	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00224	<0.001	0.0224	<0.01	4	50	200
Chloride	11.2	<2	112	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.1	<2	121	<20	1000	20000	50000
Total Dissolved Solids	197	<5	1970	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.2	<3	142	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	267
Temperature (°C)	17.70
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.111	Natural Moisture Content (%)	23.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146670
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.74
Loss on Ignition (%)	7.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.0830
ANC to pH 4 (mol/kg)	0.539

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	267
Temperature (°C)	17.70
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.119
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146671
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.12
Loss on Ignition (%)	4.75
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	44.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.0905
ANC to pH 4 (mol/kg)	0.386

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0546	<0.0005	0.546	<0.005	0.5	2	25
Barium	0.124	<0.0002	1.24	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0017	<0.001	0.017	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.0109	<0.0004	0.109	<0.004	0.4	10	40
Lead	0.000464	<0.0002	0.00464	<0.002	0.5	10	50
Antimony	0.00234	<0.001	0.0234	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00765	<0.001	0.0765	<0.01	4	50	200
Chloride	13.5	<2	135	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	2.3	<2	23	<20	1000	20000	50000
Total Dissolved Solids	232	<5	2320	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	15.6	<3	156	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	314
Temperature (°C)	17.00
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.119
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146671
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.12
Loss on Ignition (%)	4.75
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	44.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.0905
ANC to pH 4 (mol/kg)	0.386

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	314
Temperature (°C)	17.00
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146672
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.47
Loss on Ignition (%)	3.85
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	64.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0560
ANC to pH 4 (mol/kg)	0.170

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00413	<0.0005	0.0413	<0.005	0.5	2	25
Barium	0.00944	<0.0002	0.0944	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00115	<0.0003	0.0115	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0171	<0.003	0.171	<0.03	0.5	10	30
Nickel	0.00102	<0.0004	0.0102	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.004	<0.001	0.04	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00111	<0.001	0.0111	<0.01	4	50	200
Chloride	8.1	<2	81	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	62.4	<2	624	<20	1000	20000	50000
Total Dissolved Solids	237	<5	2370	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.45	<3	84.5	<30	500	800	1000

Leach Test Information

Date Prepared	26-Jan-2019
pH (pH Units)	7.64
Conductivity (µS/cm)	322
Temperature (°C)	17.40
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146672
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.47
Loss on Ignition (%)	3.85
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	64.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0560
ANC to pH 4 (mol/kg)	0.170

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	26-Jan-2019
pH (pH Units)	7.64
Conductivity (µS/cm)	322
Temperature (°C)	17.40
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146673
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.15
Loss on Ignition (%)	3.30
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	79.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.0648
ANC to pH 4 (mol/kg)	0.228

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00247	<0.0005	0.0247	<0.005	0.5	2	25
Barium	0.141	<0.0002	1.41	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000366	<0.0003	0.00366	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000907	<0.0004	0.00907	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.001	<0.001	0.01	<0.01	0.1	0.5	7
Zinc	0.00281	<0.001	0.0281	<0.01	4	50	200
Chloride	16.6	<2	166	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.7	<2	417	<20	1000	20000	50000
Total Dissolved Solids	234	<5	2340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.9	<3	119	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.33
Conductivity (µS/cm)	315
Temperature (°C)	17.40
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.108	Natural Moisture Content (%)	20.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	83.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146673
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.15
Loss on Ignition (%)	3.30
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	79.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.0648
ANC to pH 4 (mol/kg)	0.228

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.33
Conductivity (µS/cm)	315
Temperature (°C)	17.40
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146676
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.372
Loss on Ignition (%)	1.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.09
ANC to pH 6 (mol/kg)	0.128
ANC to pH 4 (mol/kg)	0.472

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0204	<0.0005	0.204	<0.005	0.5	2	25
Barium	0.146	<0.0002	1.46	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00433	<0.003	0.0433	<0.03	0.5	10	30
Nickel	0.00431	<0.0004	0.0431	<0.004	0.4	10	40
Lead	0.000456	<0.0002	0.00456	<0.002	0.5	10	50
Antimony	0.0012	<0.001	0.012	<0.01	0.06	0.7	5
Selenium	0.00169	<0.001	0.0169	<0.01	0.1	0.5	7
Zinc	0.00503	<0.001	0.0503	<0.01	4	50	200
Chloride	44.7	<2	447	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25.8	<2	258	<20	1000	20000	50000
Total Dissolved Solids	197	<5	1970	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.41	<3	34.1	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	9.11
Conductivity (µS/cm)	258
Temperature (°C)	18.70
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146676
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.372
Loss on Ignition (%)	1.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.09
ANC to pH 6 (mol/kg)	0.128
ANC to pH 4 (mol/kg)	0.472

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	9.11
Conductivity (µS/cm)	258
Temperature (°C)	18.70
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146677
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	9.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.340
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.36
ANC to pH 6 (mol/kg)	0.0616
ANC to pH 4 (mol/kg)	0.156

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00099	<0.0005	0.0099	<0.005	0.5	2	25
Barium	0.0825	<0.0002	0.825	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00415	<0.001	0.0415	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.0215	<0.0004	0.215	<0.004	0.4	10	40
Lead	0.000234	<0.0002	0.00234	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00204	<0.001	0.0204	<0.01	0.1	0.5	7
Zinc	0.00159	<0.001	0.0159	<0.01	4	50	200
Chloride	71.4	<2	714	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	15.2	<2	152	<20	1000	20000	50000
Total Dissolved Solids	230	<5	2300	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	9.45
Conductivity (µS/cm)	291
Temperature (°C)	16.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146677
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	9.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.340
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.36
ANC to pH 6 (mol/kg)	0.0616
ANC to pH 4 (mol/kg)	0.156

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	9.45
Conductivity (µS/cm)	291
Temperature (°C)	16.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146680
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.760
Loss on Ignition (%)	1.81
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.67
ANC to pH 6 (mol/kg)	0.134
ANC to pH 4 (mol/kg)	0.538

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000871	<0.0005	0.00871	<0.005	0.5	2	25
Barium	0.0732	<0.0002	0.732	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00165	<0.0003	0.0165	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0176	<0.003	0.176	<0.03	0.5	10	30
Nickel	0.002	<0.0004	0.02	<0.004	0.4	10	40
Lead	0.000735	<0.0002	0.00735	<0.002	0.5	10	50
Antimony	0.00224	<0.001	0.0224	<0.01	0.06	0.7	5
Selenium	0.0118	<0.001	0.118	<0.01	0.1	0.5	7
Zinc	0.00338	<0.001	0.0338	<0.01	4	50	200
Chloride	205	<4	2050	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.3	<2	403	<20	1000	20000	50000
Total Dissolved Solids	594	<5	5940	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.24
Conductivity (µS/cm)	603
Temperature (°C)	8.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146680
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.760
Loss on Ignition (%)	1.81
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.67
ANC to pH 6 (mol/kg)	0.134
ANC to pH 4 (mol/kg)	0.538

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.24
Conductivity (µS/cm)	603
Temperature (°C)	8.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.11
Dry Matter Content (%)	92.5

Case	
SDG	190118-133
Lab Sample Number(s)	19146682
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.570
Loss on Ignition (%)	2.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.24
ANC to pH 6 (mol/kg)	0.131
ANC to pH 4 (mol/kg)	0.934

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0614	<0.0002	0.614	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000531	<0.0003	0.00531	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0199	<0.003	0.199	<0.03	0.5	10	30
Nickel	0.0014	<0.0004	0.014	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00274	<0.001	0.0274	<0.01	0.06	0.7	5
Selenium	0.0232	<0.001	0.232	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	186	<4	1860	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	46.3	<2	463	<20	1000	20000	50000
Total Dissolved Solids	542	<5	5420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.32	<3	33.2	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.44
Conductivity (µS/cm)	740
Temperature (°C)	19.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.11
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.5
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146682
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.570
Loss on Ignition (%)	2.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.24
ANC to pH 6 (mol/kg)	0.131
ANC to pH 4 (mol/kg)	0.934

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.44
Conductivity (µS/cm)	740
Temperature (°C)	19.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146683
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.825
Loss on Ignition (%)	1.51
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.09
ANC to pH 6 (mol/kg)	0.130
ANC to pH 4 (mol/kg)	1.27

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000522	<0.0005	0.00522	<0.005	0.5	2	25
Barium	0.0704	<0.0002	0.704	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000163	<0.00001	0.000163	<0.0001	0.01	0.2	2
Molybdenum	0.0167	<0.003	0.167	<0.03	0.5	10	30
Nickel	0.00182	<0.0004	0.0182	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0029	<0.001	0.029	<0.01	0.06	0.7	5
Selenium	0.025	<0.001	0.25	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	244	<4	2440	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36.1	<2	361	<20	1000	20000	50000
Total Dissolved Solids	646	<5	6460	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.23	<3	32.3	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.68
Conductivity (µS/cm)	891
Temperature (°C)	19.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146683
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH227
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.825
Loss on Ignition (%)	1.51
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.09
ANC to pH 6 (mol/kg)	0.130
ANC to pH 4 (mol/kg)	1.27

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.68
Conductivity (µS/cm)	891
Temperature (°C)	19.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.77
Dry Matter Content (%)	91.1

Case	
SDG	190118-133
Lab Sample Number(s)	19146684
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.31
Loss on Ignition (%)	3.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.97
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.140

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00275	<0.0005	0.0275	<0.005	0.5	2	25
Barium	0.00661	<0.0002	0.0661	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00636	<0.003	0.0636	<0.03	0.5	10	30
Nickel	0.00047	<0.0004	0.0047	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0025	<0.001	0.025	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	12.6	<2	126	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	76.1	<2	761	<20	1000	20000	50000
Total Dissolved Solids	210	<5	2100	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.22	<3	52.2	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.72
Conductivity (µS/cm)	280
Temperature (°C)	17.70
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.77
Dry Matter Content (%)	91.1

Case	
SDG	190118-133
Lab Sample Number(s)	19146684
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.31
Loss on Ignition (%)	3.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.97
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.140

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.72
Conductivity (µS/cm)	280
Temperature (°C)	17.70
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146685
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.75
Loss on Ignition (%)	2.29
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	34.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0480
ANC to pH 4 (mol/kg)	0.175

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00382	<0.0005	0.0382	<0.005	0.5	2	25
Barium	0.0108	<0.0002	0.108	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00614	<0.0003	0.0614	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.014	<0.003	0.14	<0.03	0.5	10	30
Nickel	0.000913	<0.0004	0.00913	<0.004	0.4	10	40
Lead	0.00111	<0.0002	0.0111	<0.002	0.5	10	50
Antimony	0.00287	<0.001	0.0287	<0.01	0.06	0.7	5
Selenium	0.00227	<0.001	0.0227	<0.01	0.1	0.5	7
Zinc	0.00168	<0.001	0.0168	<0.01	4	50	200
Chloride	13	<2	130	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.7	<2	417	<20	1000	20000	50000
Total Dissolved Solids	163	<5	1630	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.6	<3	56	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.05
Conductivity (µS/cm)	219
Temperature (°C)	19.10
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146685
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.75
Loss on Ignition (%)	2.29
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	34.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0480
ANC to pH 4 (mol/kg)	0.175

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.05
Conductivity (µS/cm)	219
Temperature (°C)	19.10
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146686
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.77
Loss on Ignition (%)	3.48
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.10
ANC to pH 6 (mol/kg)	0.0625
ANC to pH 4 (mol/kg)	0.357

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00249	<0.0005	0.0249	<0.005	0.5	2	25
Barium	0.00636	<0.0002	0.0636	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0233	<0.003	0.233	<0.03	0.5	10	30
Nickel	0.00153	<0.0004	0.0153	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00368	<0.001	0.0368	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00151	<0.001	0.0151	<0.01	4	50	200
Chloride	10.9	<2	109	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	49.9	<2	499	<20	1000	20000	50000
Total Dissolved Solids	177	<5	1770	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.39	<3	53.9	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.80
Conductivity (µS/cm)	240
Temperature (°C)	17.80
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146686
Sampled Date	15-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.77
Loss on Ignition (%)	3.48
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.10
ANC to pH 6 (mol/kg)	0.0625
ANC to pH 4 (mol/kg)	0.357

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.80
Conductivity (µS/cm)	240
Temperature (°C)	17.80
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146687
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	15.0
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.70
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.78
ANC to pH 6 (mol/kg)	0.0442
ANC to pH 4 (mol/kg)	0.196

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00933	<0.0005	0.0933	<0.005	0.5	2	25
Barium	0.0158	<0.0002	0.158	<0.002	20	100	300
Cadmium	0.000193	<0.00008	0.00193	<0.0008	0.04	1	5
Chromium	0.00245	<0.001	0.0245	<0.01	0.5	10	70
Copper	0.00829	<0.0003	0.0829	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0269	<0.003	0.269	<0.03	0.5	10	30
Nickel	0.0029	<0.0004	0.029	<0.004	0.4	10	40
Lead	0.0128	<0.0002	0.128	<0.002	0.5	10	50
Antimony	0.00258	<0.001	0.0258	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0156	<0.001	0.156	<0.01	4	50	200
Chloride	17.6	<2	176	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	136	<5	1360	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.2	<3	92	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.82
Conductivity (µS/cm)	178
Temperature (°C)	18.50
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146687
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	15.0
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.70
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.78
ANC to pH 6 (mol/kg)	0.0442
ANC to pH 4 (mol/kg)	0.196

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.82
Conductivity (µS/cm)	178
Temperature (°C)	18.50
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146688
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.19
Loss on Ignition (%)	6.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0560
ANC to pH 4 (mol/kg)	0.527

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00857	<0.0005	0.0857	<0.005	0.5	2	25
Barium	0.016	<0.0002	0.16	<0.002	20	100	300
Cadmium	0.000141	<0.00008	0.00141	<0.0008	0.04	1	5
Chromium	0.0027	<0.001	0.027	<0.01	0.5	10	70
Copper	0.00836	<0.0003	0.0836	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0317	<0.003	0.317	<0.03	0.5	10	30
Nickel	0.00318	<0.0004	0.0318	<0.004	0.4	10	40
Lead	0.0152	<0.0002	0.152	<0.002	0.5	10	50
Antimony	0.00199	<0.001	0.0199	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0168	<0.001	0.168	<0.01	4	50	200
Chloride	17.5	<2	175	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	2.2	<2	22	<20	1000	20000	50000
Total Dissolved Solids	157	<5	1570	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.9	<3	119	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	6.51
Conductivity (µS/cm)	225
Temperature (°C)	19.40
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146688
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.19
Loss on Ignition (%)	6.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0560
ANC to pH 4 (mol/kg)	0.527

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	6.51
Conductivity (µS/cm)	225
Temperature (°C)	19.40
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146689
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.51
Loss on Ignition (%)	4.98
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0704
ANC to pH 4 (mol/kg)	0.357

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00693	<0.0005	0.0693	<0.005	0.5	2	25
Barium	0.0135	<0.0002	0.135	<0.002	20	100	300
Cadmium	0.0000891	<0.00008	0.000891	<0.0008	0.04	1	5
Chromium	0.00189	<0.001	0.0189	<0.01	0.5	10	70
Copper	0.00567	<0.0003	0.0567	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0382	<0.003	0.382	<0.03	0.5	10	30
Nickel	0.00318	<0.0004	0.0318	<0.004	0.4	10	40
Lead	0.00847	<0.0002	0.0847	<0.002	0.5	10	50
Antimony	0.00241	<0.001	0.0241	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0143	<0.001	0.143	<0.01	4	50	200
Chloride	13.4	<2	134	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	200	<5	2000	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.1	<3	141	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.17
Conductivity (µS/cm)	271
Temperature (°C)	19.00
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146689
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.51
Loss on Ignition (%)	4.98
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0704
ANC to pH 4 (mol/kg)	0.357

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.17
Conductivity (µS/cm)	271
Temperature (°C)	19.00
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146690
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.73
Loss on Ignition (%)	4.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.60
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.89
ANC to pH 6 (mol/kg)	0.0511
ANC to pH 4 (mol/kg)	0.254

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00685	<0.0005	0.0685	<0.005	0.5	2	25
Barium	0.00546	<0.0002	0.0546	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0301	<0.003	0.301	<0.03	0.5	10	30
Nickel	0.00178	<0.0004	0.0178	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00214	<0.001	0.0214	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00225	<0.001	0.0225	<0.01	4	50	200
Chloride	30.2	<2	302	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	30.6	<2	306	<20	1000	20000	50000
Total Dissolved Solids	234	<5	2340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	12.1	<3	121	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.96
Conductivity (µS/cm)	304
Temperature (°C)	16.60
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146690
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.73
Loss on Ignition (%)	4.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.60
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.89
ANC to pH 6 (mol/kg)	0.0511
ANC to pH 4 (mol/kg)	0.254

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.96
Conductivity (µS/cm)	304
Temperature (°C)	16.60
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.17
Dry Matter Content (%)	91.6

Case	
SDG	190118-133
Lab Sample Number(s)	19146692
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.485
Loss on Ignition (%)	1.41
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.61
ANC to pH 6 (mol/kg)	0.0980
ANC to pH 4 (mol/kg)	0.494

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00238	<0.0005	0.0238	<0.005	0.5	2	25
Barium	0.103	<0.0002	1.03	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00429	<0.001	0.0429	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00523	<0.0004	0.0523	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00165	<0.001	0.0165	<0.01	0.1	0.5	7
Zinc	0.00353	<0.001	0.0353	<0.01	4	50	200
Chloride	33.2	<2	332	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10.3	<2	103	<20	1000	20000	50000
Total Dissolved Solids	153	<5	1530	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.98	<3	49.8	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.38
Conductivity (µS/cm)	208
Temperature (°C)	17.90
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	9.17
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.6
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146692
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.485
Loss on Ignition (%)	1.41
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.61
ANC to pH 6 (mol/kg)	0.0980
ANC to pH 4 (mol/kg)	0.494

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.38
Conductivity (µS/cm)	208
Temperature (°C)	17.90
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.11
Dry Matter Content (%)	92.5

Case	
SDG	190118-133
Lab Sample Number(s)	19146693
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	8.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.239
Loss on Ignition (%)	1.84
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.72
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.20
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.371

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00164	<0.0005	0.0164	<0.005	0.5	2	25
Barium	0.00455	<0.0002	0.0455	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00443	<0.003	0.0443	<0.03	0.5	10	30
Nickel	0.000525	<0.0004	0.00525	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00172	<0.001	0.0172	<0.01	0.06	0.7	5
Selenium	0.00136	<0.001	0.0136	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	60.3	<2	603	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	10.1	<2	101	<20	1000	20000	50000
Total Dissolved Solids	196	<5	1960	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.12	<3	31.2	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	268
Temperature (°C)	19.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.11
Dry Matter Content (%)	92.5

Case	
SDG	190118-133
Lab Sample Number(s)	19146693
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	8.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.239
Loss on Ignition (%)	1.84
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.72
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.20
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.371

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	268
Temperature (°C)	19.30
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146694
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.406
Loss on Ignition (%)	0.969
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.59
ANC to pH 6 (mol/kg)	0.0660
ANC to pH 4 (mol/kg)	0.149

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00137	<0.0005	0.0137	<0.005	0.5	2	25
Barium	0.00416	<0.0002	0.0416	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000444	<0.0004	0.00444	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00114	<0.001	0.0114	<0.01	0.06	0.7	5
Selenium	0.00225	<0.001	0.0225	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	63.9	<2	639	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	16.6	<2	166	<20	1000	20000	50000
Total Dissolved Solids	210	<5	2100	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.08	<3	30.8	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	9.20
Conductivity (µS/cm)	290
Temperature (°C)	19.40
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146694
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.406
Loss on Ignition (%)	0.969
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.59
ANC to pH 6 (mol/kg)	0.0660
ANC to pH 4 (mol/kg)	0.149

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	9.20
Conductivity (µS/cm)	290
Temperature (°C)	19.40
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146695
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	11.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.497
Loss on Ignition (%)	2.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.98
ANC to pH 6 (mol/kg)	0.237
ANC to pH 4 (mol/kg)	1.19

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00145	<0.0005	0.0145	<0.005	0.5	2	25
Barium	0.696	<0.0002	6.96	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00114	<0.001	0.0114	<0.01	0.06	0.7	5
Selenium	0.0166	<0.001	0.166	<0.01	0.1	0.5	7
Zinc	0.0106	<0.001	0.106	<0.01	4	50	200
Chloride	160	<2	1600	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	28.6	<2	286	<20	1000	20000	50000
Total Dissolved Solids	454	<5	4540	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.03	<3	40.3	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.72
Conductivity (µS/cm)	617
Temperature (°C)	19.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146695
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	11.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.497
Loss on Ignition (%)	2.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.98
ANC to pH 6 (mol/kg)	0.237
ANC to pH 4 (mol/kg)	1.19

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.72
Conductivity (µS/cm)	617
Temperature (°C)	19.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.11
Dry Matter Content (%)	92.5

Case	
SDG	190118-133
Lab Sample Number(s)	19146696
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.772
Loss on Ignition (%)	2.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.90
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.46
ANC to pH 6 (mol/kg)	0.188
ANC to pH 4 (mol/kg)	0.873

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000759	<0.0005	0.00759	<0.005	0.5	2	25
Barium	0.0697	<0.0002	0.697	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00167	<0.0003	0.0167	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0118	<0.003	0.118	<0.03	0.5	10	30
Nickel	0.00132	<0.0004	0.0132	<0.004	0.4	10	40
Lead	0.000336	<0.0002	0.00336	<0.002	0.5	10	50
Antimony	0.00305	<0.001	0.0305	<0.01	0.06	0.7	5
Selenium	0.0196	<0.001	0.196	<0.01	0.1	0.5	7
Zinc	0.0115	<0.001	0.115	<0.01	4	50	200
Chloride	185	<2	1850	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37	<2	370	<20	1000	20000	50000
Total Dissolved Solids	481	<5	4810	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.63	<3	36.3	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	649
Temperature (°C)	18.70
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.11
Dry Matter Content (%)	92.5

Case	
SDG	190118-133
Lab Sample Number(s)	19146696
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.772
Loss on Ignition (%)	2.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.90
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.46
ANC to pH 6 (mol/kg)	0.188
ANC to pH 4 (mol/kg)	0.873

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	649
Temperature (°C)	18.70
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146698
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.836
Loss on Ignition (%)	1.91
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.46
ANC to pH 6 (mol/kg)	0.104
ANC to pH 4 (mol/kg)	1.34

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00162	<0.0005	0.0162	<0.005	0.5	2	25
Barium	0.00354	<0.0002	0.0354	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00454	<0.0003	0.0454	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	0.0000244	<0.00001	0.000244	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00123	<0.0004	0.0123	<0.004	0.4	10	40
Lead	0.000515	<0.0002	0.00515	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0274	<0.001	0.274	<0.01	0.1	0.5	7
Zinc	0.00219	<0.001	0.0219	<0.01	4	50	200
Chloride	181	<4	1810	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	51.5	<2	515	<20	1000	20000	50000
Total Dissolved Solids	519	<5	5190	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.08	<3	30.8	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.38
Conductivity (µS/cm)	728
Temperature (°C)	18.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146698
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH228
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.836
Loss on Ignition (%)	1.91
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.46
ANC to pH 6 (mol/kg)	0.104
ANC to pH 4 (mol/kg)	1.34

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.38
Conductivity (µS/cm)	728
Temperature (°C)	18.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146700
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.08
Loss on Ignition (%)	3.79
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	188
PAH Sum of 17 (mg/kg)	375
pH (pH Units)	7.79
ANC to pH 6 (mol/kg)	0.0483
ANC to pH 4 (mol/kg)	0.221

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00271	<0.0005	0.0271	<0.005	0.5	2	25
Barium	0.00951	<0.0002	0.0951	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000665	<0.0003	0.00665	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0301	<0.003	0.301	<0.03	0.5	10	30
Nickel	0.00167	<0.0004	0.0167	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00323	<0.001	0.0323	<0.01	0.06	0.7	5
Selenium	0.00151	<0.001	0.0151	<0.01	0.1	0.5	7
Zinc	0.00237	<0.001	0.0237	<0.01	4	50	200
Chloride	20.1	<2	201	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	59.3	<2	593	<20	1000	20000	50000
Total Dissolved Solids	224	<5	2240	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.61	<3	56.1	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	7.38
Conductivity (µS/cm)	297
Temperature (°C)	18.00
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146700
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.08
Loss on Ignition (%)	3.79
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	188
PAH Sum of 17 (mg/kg)	375
pH (pH Units)	7.79
ANC to pH 6 (mol/kg)	0.0483
ANC to pH 4 (mol/kg)	0.221

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	7.38
Conductivity (µS/cm)	297
Temperature (°C)	18.00
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146702
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	6.16
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	75.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.38
ANC to pH 6 (mol/kg)	0.0581
ANC to pH 4 (mol/kg)	0.427

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00302	<0.0005	0.0302	<0.005	0.5	2	25
Barium	0.0793	<0.0002	0.793	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00677	<0.003	0.0677	<0.03	0.5	10	30
Nickel	0.014	<0.0004	0.14	<0.004	0.4	10	40
Lead	0.000298	<0.0002	0.00298	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0386	<0.001	0.386	<0.01	4	50	200
Chloride	10.2	<2	102	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	82.4	<2	824	<20	1000	20000	50000
Total Dissolved Solids	244	<5	2440	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.5	<3	105	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.90
Conductivity (µS/cm)	312
Temperature (°C)	17.70
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146702
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	6.16
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	75.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.38
ANC to pH 6 (mol/kg)	0.0581
ANC to pH 4 (mol/kg)	0.427

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.90
Conductivity (µS/cm)	312
Temperature (°C)	17.70
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146703
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.87
Loss on Ignition (%)	3.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	208
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.50
ANC to pH 6 (mol/kg)	0.0376
ANC to pH 4 (mol/kg)	0.235

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00323	<0.0005	0.0323	<0.005	0.5	2	25
Barium	0.0117	<0.0002	0.117	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0139	<0.003	0.139	<0.03	0.5	10	30
Nickel	0.00133	<0.0004	0.0133	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00191	<0.001	0.0191	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00175	<0.001	0.0175	<0.01	4	50	200
Chloride	11.8	<2	118	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	155	<2	1550	<20	1000	20000	50000
Total Dissolved Solids	354	<5	3540	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.3	<3	53	<30	500	800	1000

Leach Test Information

Date Prepared	26-Jan-2019
pH (pH Units)	7.90
Conductivity (µS/cm)	482
Temperature (°C)	18.00
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.111	Natural Moisture Content (%)	23.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146703
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.87
Loss on Ignition (%)	3.88
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	208
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.50
ANC to pH 6 (mol/kg)	0.0376
ANC to pH 4 (mol/kg)	0.235

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	26-Jan-2019
pH (pH Units)	7.90
Conductivity (µS/cm)	482
Temperature (°C)	18.00
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146704
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.97
Loss on Ignition (%)	7.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	43.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.96
ANC to pH 6 (mol/kg)	0.0620
ANC to pH 4 (mol/kg)	0.406

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00328	<0.0005	0.0328	<0.005	0.5	2	25
Barium	0.00379	<0.0002	0.0379	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00894	<0.0003	0.0894	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00104	<0.0004	0.0104	<0.004	0.4	10	40
Lead	0.00123	<0.0002	0.0123	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00139	<0.001	0.0139	<0.01	4	50	200
Chloride	3.3	<2	33	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	13.4	<2	134	<20	1000	20000	50000
Total Dissolved Solids	74.3	<5	743	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.23	<3	82.3	<30	500	800	1000

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.79
Conductivity (µS/cm)	92.8
Temperature (°C)	18.20
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146704
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.97
Loss on Ignition (%)	7.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	43.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.96
ANC to pH 6 (mol/kg)	0.0620
ANC to pH 4 (mol/kg)	0.406

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	24-Jan-2019
pH (pH Units)	7.79
Conductivity (µS/cm)	92.8
Temperature (°C)	18.20
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146705
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.52
Loss on Ignition (%)	4.30
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.0622
ANC to pH 4 (mol/kg)	<0.0300

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00329	<0.0005	0.0329	<0.005	0.5	2	25
Barium	0.00514	<0.0002	0.0514	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0319	<0.003	0.319	<0.03	0.5	10	30
Nickel	0.00106	<0.0004	0.0106	<0.004	0.4	10	40
Lead	0.000233	<0.0002	0.00233	<0.002	0.5	10	50
Antimony	0.00215	<0.001	0.0215	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00135	<0.001	0.0135	<0.01	4	50	200
Chloride	11.6	<2	116	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	16.5	<2	165	<20	1000	20000	50000
Total Dissolved Solids	189	<5	1890	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.2	<3	142	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	7.39
Conductivity (µS/cm)	249
Temperature (°C)	18.10
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146705
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.52
Loss on Ignition (%)	4.30
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.0622
ANC to pH 4 (mol/kg)	<0.0300

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	7.39
Conductivity (µS/cm)	249
Temperature (°C)	18.10
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.119
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146706
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.16
Loss on Ignition (%)	4.58
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.73
ANC to pH 6 (mol/kg)	0.0753
ANC to pH 4 (mol/kg)	0.427

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00253	<0.0005	0.0253	<0.005	0.5	2	25
Barium	0.14	<0.0002	1.4	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000453	<0.0003	0.00453	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000842	<0.0004	0.00842	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00287	<0.001	0.0287	<0.01	4	50	200
Chloride	11.8	<2	118	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25.2	<2	252	<20	1000	20000	50000
Total Dissolved Solids	186	<5	1860	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.3	<3	133	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	242
Temperature (°C)	18.30
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.119	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146706
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.16
Loss on Ignition (%)	4.58
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.73
ANC to pH 6 (mol/kg)	0.0753
ANC to pH 4 (mol/kg)	0.427

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	242
Temperature (°C)	18.30
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.53
Dry Matter Content (%)	91.3

Case	
SDG	190118-133
Lab Sample Number(s)	19146708
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	7.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.298
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.91
ANC to pH 6 (mol/kg)	0.0755
ANC to pH 4 (mol/kg)	<0.0300

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00239	<0.0005	0.0239	<0.005	0.5	2	25
Barium	0.00803	<0.0002	0.0803	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00357	<0.003	0.0357	<0.03	0.5	10	30
Nickel	0.000418	<0.0004	0.00418	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00189	<0.001	0.0189	<0.01	0.06	0.7	5
Selenium	0.00206	<0.001	0.0206	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	18.3	<2	183	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	15.1	<2	151	<20	1000	20000	50000
Total Dissolved Solids	112	<5	1120	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.84	<3	58.4	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.28
Conductivity (µS/cm)	148
Temperature (°C)	18.10
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.53
Dry Matter Content (%)	91.3

Case	
SDG	190118-133
Lab Sample Number(s)	19146708
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	7.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.298
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.91
ANC to pH 6 (mol/kg)	0.0755
ANC to pH 4 (mol/kg)	<0.0300

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.28
Conductivity (µS/cm)	148
Temperature (°C)	18.10
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146711
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.374
Loss on Ignition (%)	1.80
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.55
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.17
ANC to pH 6 (mol/kg)	0.105
ANC to pH 4 (mol/kg)	0.442

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00223	<0.0005	0.0223	<0.005	0.5	2	25
Barium	0.018	<0.0002	0.18	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00403	<0.003	0.0403	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00103	<0.001	0.0103	<0.01	0.06	0.7	5
Selenium	0.00149	<0.001	0.0149	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	163	<2	1630	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	27.8	<2	278	<20	1000	20000	50000
Total Dissolved Solids	450	<5	4500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.6	<3	46	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.99
Conductivity (µS/cm)	632
Temperature (°C)	18.10
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)	19.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	84.0
Particle Size <4mm	>95%		

Case	
SDG	190118-133
Lab Sample Number(s)	19146711
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.374
Loss on Ignition (%)	1.80
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.55
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.17
ANC to pH 6 (mol/kg)	0.105
ANC to pH 4 (mol/kg)	0.442

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.99
Conductivity (µS/cm)	632
Temperature (°C)	18.10
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146712
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.388
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	58.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.90
ANC to pH 6 (mol/kg)	0.0539
ANC to pH 4 (mol/kg)	0.0977

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00497	<0.0005	0.0497	<0.005	0.5	2	25
Barium	0.00454	<0.0002	0.0454	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0299	<0.003	0.299	<0.03	0.5	10	30
Nickel	0.00132	<0.0004	0.0132	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00197	<0.001	0.0197	<0.01	0.06	0.7	5
Selenium	0.00319	<0.001	0.0319	<0.01	0.1	0.5	7
Zinc	0.00167	<0.001	0.0167	<0.01	4	50	200
Chloride	249	<4	2490	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.7	<2	407	<20	1000	20000	50000
Total Dissolved Solids	689	<5	6890	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.97
Conductivity (µS/cm)	929
Temperature (°C)	18.10
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	190118-133
Lab Sample Number(s)	19146712
Sampled Date	16-Jan-2019
Customer Sample Ref.	BH229
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.388
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	58.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.90
ANC to pH 6 (mol/kg)	0.0539
ANC to pH 4 (mol/kg)	0.0977

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	25-Jan-2019
pH (pH Units)	8.97
Conductivity (µS/cm)	929
Temperature (°C)	18.10
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 15:05:52



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	19146636	19146637	19146638	19146639	19146640	19146641	19146643	19146645	19146646	19146647
	BH225	BH225	BH225	BH225	BH225	BH225	BH225	BH225	BH225	BH225
	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	10.00 - 12.00	12.00 - 13.00	13.00 - 14.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	29-Jan-2019	24-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	24-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	25-Jan-2019
Anions by Kone (w)	01-Feb-2019	01-Feb-2019	01-Feb-2019	25-Jan-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Asbestos ID in Solid Samples	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
CEN 10:1 Leachate (1 Stage)	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	24-Jan-2019
CEN Readings	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	26-Jan-2019
Coronene	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019
Dissolved Metals by ICP-MS	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Dissolved Organic/Inorganic Carbon	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	30-Jan-2019
EPH CWG (Aliphatic) GC (S)	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
EPH CWG (Aromatic) GC (S)	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
Fluoride	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019
GRO by GC-FID (S)	28-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	28-Jan-2019	25-Jan-2019	30-Jan-2019	29-Jan-2019
Hexavalent Chromium (s)	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019
Loss on Ignition in soils	29-Jan-2019	24-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	24-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	25-Jan-2019
Mercury Dissolved	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	30-Jan-2019
Metals in solid samples by OES	30-Jan-2019	24-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	24-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	26-Jan-2019
Mineral Oil	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019
PAH 16 & 17 Calc	28-Jan-2019	25-Jan-2019	25-Jan-2019	28-Jan-2019	28-Jan-2019	25-Jan-2019	28-Jan-2019	25-Jan-2019	28-Jan-2019	27-Jan-2019
PAH by GCMS	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	27-Jan-2019	25-Jan-2019	27-Jan-2019	29-Jan-2019
PCBs by GCMS	30-Jan-2019	24-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	26-Jan-2019
pH	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
Phenols by HPLC (S)	26-Jan-2019	26-Jan-2019	28-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	28-Jan-2019	26-Jan-2019	25-Jan-2019	26-Jan-2019
Phenols by HPLC (W)	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	30-Jan-2019
Sample description	20-Jan-2019	19-Jan-2019	20-Jan-2019	20-Jan-2019	19-Jan-2019	19-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019
Total Dissolved Solids	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	29-Jan-2019
Total Organic Carbon	29-Jan-2019	25-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	25-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
TPH CWG GC (S)	28-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	28-Jan-2019	25-Jan-2019	30-Jan-2019	29-Jan-2019
VOC MS (S)	25-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	25-Jan-2019	28-Jan-2019	25-Jan-2019	25-Jan-2019	28-Jan-2019	29-Jan-2019

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	19146649	19146650	19146652	19146653	19146654	19146655	19146657	19146659	19146661	19146663
	BH225	BH226	BH226	BH226	BH226	BH226	BH226	BH226	BH226	BH226
	15.00 - 17.00	0.00 - 0.50	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.30 - 5.00	6.00 - 7.00	8.00 - 9.00	10.00 - 12.00	13.00 - 14.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019
Anions by Kone (w)	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Asbestos ID in Solid Samples	24-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019
CEN 10:1 Leachate (1 Stage)	24-Jan-2019	28-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019
CEN Readings	26-Jan-2019	29-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	28-Jan-2019
Coronene	25-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	25-Jan-2019	25-Jan-2019	28-Jan-2019	28-Jan-2019	25-Jan-2019
Dissolved Metals by ICP-MS	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019
Dissolved Organic/Inorganic Carbon	04-Feb-2019	31-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019
EPH CWG (Aliphatic) GC (S)	25-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
EPH CWG (Aromatic) GC (S)	25-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019
Fluoride	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019
GRO by GC-FID (S)	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
Hexavalent Chromium (s)	25-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Loss on Ignition in soils	29-Jan-2019	30-Jan-2019	30-Jan-2019	01-Feb-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	28-Jan-2019
Mercury Dissolved	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019
Metals in solid samples by OES	30-Jan-2019	31-Jan-2019	01-Feb-2019	31-Jan-2019	01-Feb-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019	31-Jan-2019
Mineral Oil	25-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	26-Jan-2019	26-Jan-2019	28-Jan-2019	26-Jan-2019	26-Jan-2019
PAH 16 & 17 Calc	27-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	27-Jan-2019	27-Jan-2019	29-Jan-2019	28-Jan-2019	27-Jan-2019
PAH by GCMS	27-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	27-Jan-2019	27-Jan-2019	29-Jan-2019	28-Jan-2019	27-Jan-2019
PCBs by GCMS	30-Jan-2019	31-Jan-2019	01-Feb-2019	01-Feb-2019	31-Jan-2019	01-Feb-2019	01-Feb-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019
pH	25-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Phenols by HPLC (S)	28-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019
Phenols by HPLC (W)	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Sample description	20-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Total Dissolved Solids	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	25-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Total Organic Carbon	29-Jan-2019	31-Jan-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	01-Feb-2019	31-Jan-2019
TPH CWG GC (S)	30-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
VOC MS (S)	29-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19146665	19146667	19146668	19146669	19146670	19146671	19146672	19146673	19146676	19146677
	BH226	BH227	BH227	BH227	BH227	BH227	BH227	BH227	BH227	BH227
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	15.00 - 17.00	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	8.00 - 9.00	9.00 - 11.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019
Anions by Kone (w)	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Asbestos ID in Solid Samples	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019
CEN 10:1 Leachate (1 Stage)	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	26-Jan-2019	26-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019
CEN Readings	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	28-Jan-2019	28-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019
Coronene	28-Jan-2019	25-Jan-2019	28-Jan-2019	28-Jan-2019	25-Jan-2019	28-Jan-2019	28-Jan-2019	26-Jan-2019	28-Jan-2019	25-Jan-2019
Dissolved Metals by ICP-MS	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
Dissolved Organic/Inorganic Carbon	31-Jan-2019	30-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	01-Feb-2019	01-Feb-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019
EPH CWG (Aliphatic) GC (S)	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
EPH CWG (Aromatic) GC (S)	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
Fluoride	30-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019
GRO by GC-FID (S)	01-Feb-2019	01-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
Hexavalent Chromium (s)	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Loss on Ignition in soils	29-Jan-2019	28-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	30-Jan-2019	31-Jan-2019
Mercury Dissolved	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Metals in solid samples by OES	31-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019	31-Jan-2019
Mineral Oil	29-Jan-2019	26-Jan-2019	29-Jan-2019	28-Jan-2019	26-Jan-2019	29-Jan-2019	28-Jan-2019	26-Jan-2019	29-Jan-2019	26-Jan-2019
PAH 16 & 17 Calc	30-Jan-2019	27-Jan-2019	29-Jan-2019	29-Jan-2019	27-Jan-2019	28-Jan-2019	29-Jan-2019	27-Jan-2019	28-Jan-2019	27-Jan-2019
PAH by GCMS	30-Jan-2019	27-Jan-2019	28-Jan-2019	29-Jan-2019	27-Jan-2019	28-Jan-2019	29-Jan-2019	27-Jan-2019	28-Jan-2019	27-Jan-2019
PCBs by GCMS	30-Jan-2019	29-Jan-2019	30-Jan-2019	01-Feb-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	01-Feb-2019	31-Jan-2019
pH	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Phenols by HPLC (S)	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	30-Jan-2019	28-Jan-2019
Phenols by HPLC (W)	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019
Sample description	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Total Dissolved Solids	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
Total Organic Carbon	31-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019
TPH CWG GC (S)	01-Feb-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019
VOC MS (S)	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19146680	19146682	19146683	19146684	19146685	19146686	19146687	19146688	19146689	19146690
	BH227	BH227	BH227	BH228	BH228	BH228	BH228	BH228	BH228	BH228
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	12.00 - 13.00	14.00 - 15.00	15.00 - 17.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	29-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Anions by Kone (w)	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Asbestos ID in Solid Samples	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019
CEN 10:1 Leachate (1 Stage)	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
CEN Readings	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019
Coronene	28-Jan-2019	28-Jan-2019	25-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019
Dissolved Metals by ICP-MS	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019
Dissolved Organic/Inorganic Carbon	31-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	02-Feb-2019	29-Jan-2019	31-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019
EPH CWG (Aliphatic) GC (S)	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
EPH CWG (Aromatic) GC (S)	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
Fluoride	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019
GRO by GC-FID (S)	01-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	01-Feb-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019
Hexavalent Chromium (s)	29-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019
Loss on Ignition in soils	29-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	01-Feb-2019
Mercury Dissolved	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019
Metals in solid samples by OES	31-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019	31-Jan-2019	01-Feb-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019
Mineral Oil	28-Jan-2019	28-Jan-2019	26-Jan-2019	29-Jan-2019	26-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	26-Jan-2019	30-Jan-2019
PAH 16 & 17 Calc	29-Jan-2019	29-Jan-2019	27-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
PAH by GCMS	29-Jan-2019	29-Jan-2019	27-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
PCBs by GCMS	30-Jan-2019	01-Feb-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	01-Feb-2019
pH	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Phenols by HPLC (S)	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Phenols by HPLC (W)	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
Sample description	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Total Dissolved Solids	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019
Total Organic Carbon	31-Jan-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	01-Feb-2019	31-Jan-2019	01-Feb-2019
TPH CWG GC (S)	01-Feb-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019
VOC MS (S)	01-Feb-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19146692	19146693	19146694	19146695	19146696	19146698	19146700	19146702	19146703	19146704
	BH228	BH228	BH228	BH228	BH228	BH228	BH229	BH229	BH229	BH229
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth	7.00 - 8.00	8.00 - 10.00	10.00 - 11.00	11.00 - 13.00	13.00 - 14.00	15.00 - 16.00	0.00 - 0.50	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Anions by Kone (w)	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Asbestos ID in Solid Samples	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019
CEN 10:1 Leachate (1 Stage)	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	26-Jan-2019	25-Jan-2019	24-Jan-2019	26-Jan-2019	24-Jan-2019
CEN Readings	26-Jan-2019	26-Jan-2019	26-Jan-2019	26-Jan-2019	25-Jan-2019	28-Jan-2019	26-Jan-2019	26-Jan-2019	28-Jan-2019	26-Jan-2019
Coronene	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	25-Jan-2019	28-Jan-2019
Dissolved Metals by ICP-MS	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
Dissolved Organic/Inorganic Carbon	30-Jan-2019	30-Jan-2019	01-Feb-2019	31-Jan-2019	29-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	01-Feb-2019	29-Jan-2019
EPH CWG (Aliphatic) GC (S)	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
EPH CWG (Aromatic) GC (S)	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019
Fluoride	29-Jan-2019	30-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019
GRO by GC-FID (S)	30-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	01-Feb-2019		30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019
Hexavalent Chromium (s)	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019
Loss on Ignition in soils	29-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	28-Jan-2019	30-Jan-2019
Mercury Dissolved	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019
Metals in solid samples by OES	31-Jan-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019
Mineral Oil	29-Jan-2019	26-Jan-2019	26-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	26-Jan-2019	28-Jan-2019
PAH 16 & 17 Calc	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	27-Jan-2019	29-Jan-2019
PAH by GCMS	28-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	27-Jan-2019	29-Jan-2019
PCBs by GCMS	31-Jan-2019	01-Feb-2019	30-Jan-2019	31-Jan-2019	01-Feb-2019	29-Jan-2019	31-Jan-2019	30-Jan-2019	29-Jan-2019	31-Jan-2019
pH	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Phenols by HPLC (S)	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	30-Jan-2019
Phenols by HPLC (W)	29-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019
Sample description	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Total Dissolved Solids	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Total Organic Carbon	01-Feb-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019	01-Feb-2019
TPH CWG GC (S)	30-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	01-Feb-2019	01-Feb-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019
VOC MS (S)	31-Jan-2019	30-Jan-2019	31-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	30-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19146705	19146706	19146708	19146711	19146712	19146713	19146716
	BH229	BH229	BH229	BH229	BH229	BH229	BH229
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth	4.00 - 5.00	5.00 - 6.00	7.00 - 9.00	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Anions by Kone (w)	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019
Asbestos ID in Solid Samples	29-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019
CEN 10:1 Leachate (1 Stage)	25-Jan-2019	25-Jan-2019	25-Jan-2019	26-Jan-2019	26-Jan-2019	24-Jan-2019	26-Jan-2019
CEN Readings	26-Jan-2019	26-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	26-Jan-2019	28-Jan-2019
Coronene	25-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019
Dissolved Metals by ICP-MS	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019
Dissolved Organic/Inorganic Carbon	30-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019	01-Feb-2019	29-Jan-2019	31-Jan-2019
EPH CWG (Aliphatic) GC (S)	29-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
EPH CWG (Aromatic) GC (S)	29-Jan-2019	28-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019
Fluoride	29-Jan-2019	29-Jan-2019	30-Jan-2019	30-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019
GRO by GC-FID (S)	30-Jan-2019	30-Jan-2019	30-Jan-2019	01-Feb-2019	01-Feb-2019	30-Jan-2019	01-Feb-2019
Hexavalent Chromium (s)	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Loss on Ignition in soils	31-Jan-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019
Mercury Dissolved	30-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	30-Jan-2019	29-Jan-2019
Metals in solid samples by OES	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	31-Jan-2019	26-Jan-2019	31-Jan-2019
Mineral Oil	26-Jan-2019	29-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	26-Jan-2019	28-Jan-2019
PAH 16 & 17 Calc	27-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019
PAH by GCMS	27-Jan-2019	28-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019
PCBs by GCMS	31-Jan-2019	29-Jan-2019	31-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
pH	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Phenols by HPLC (S)	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019	28-Jan-2019
Phenols by HPLC (W)	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019
Sample description	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Total Dissolved Solids	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	29-Jan-2019	28-Jan-2019	29-Jan-2019
Total Organic Carbon	01-Feb-2019	30-Jan-2019	01-Feb-2019	01-Feb-2019	01-Feb-2019	31-Jan-2019	31-Jan-2019
TPH CWG GC (S)	30-Jan-2019	30-Jan-2019	30-Jan-2019	01-Feb-2019	01-Feb-2019	30-Jan-2019	01-Feb-2019
VOC MS (S)	31-Jan-2019	31-Jan-2019	30-Jan-2019	30-Jan-2019	30-Jan-2019	31-Jan-2019	31-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

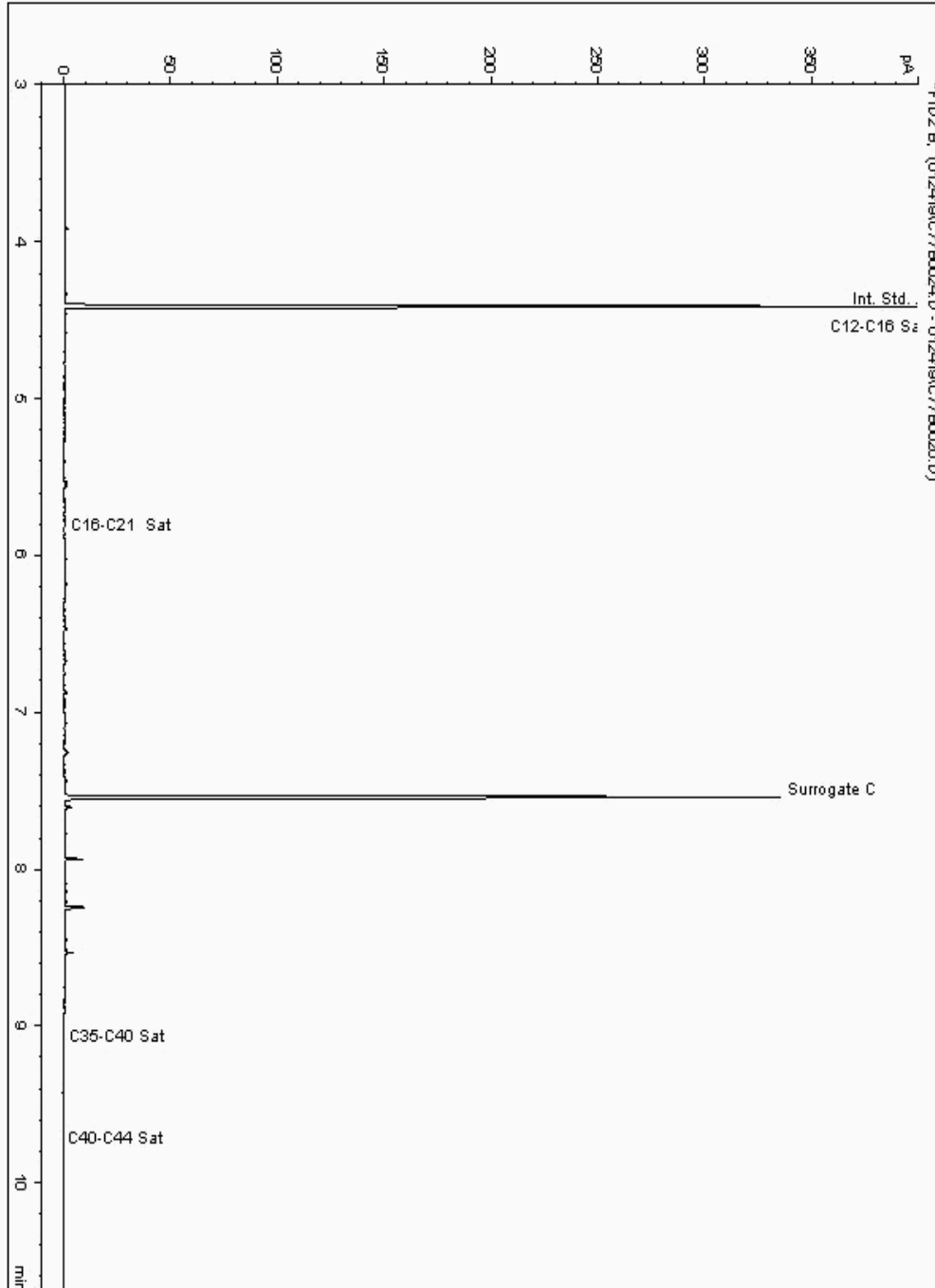
Analysis: EPH CWG (Aliphatic) GC (S)
19154778

Sample No :
Sample ID : BH225

19,154,778 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997229-
Date Acquired : 24/01/2019 18:54:24 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

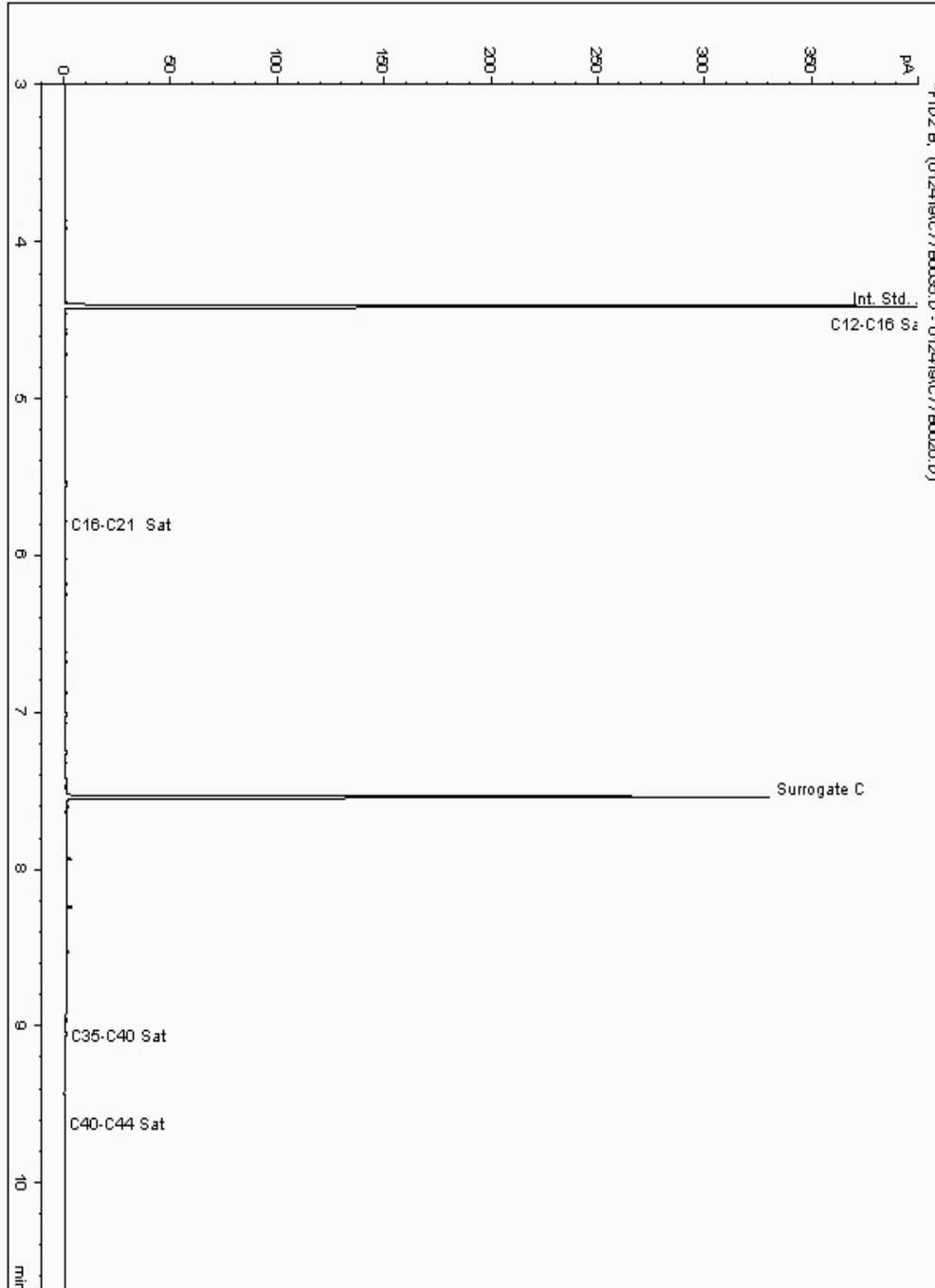
Analysis: EPH CWG (Aliphatic) GC (S)
19154800

Sample No :
Sample ID : BH225

19,154,800Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997327-
Date Acquired : 24/01/2019 22:18:53 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

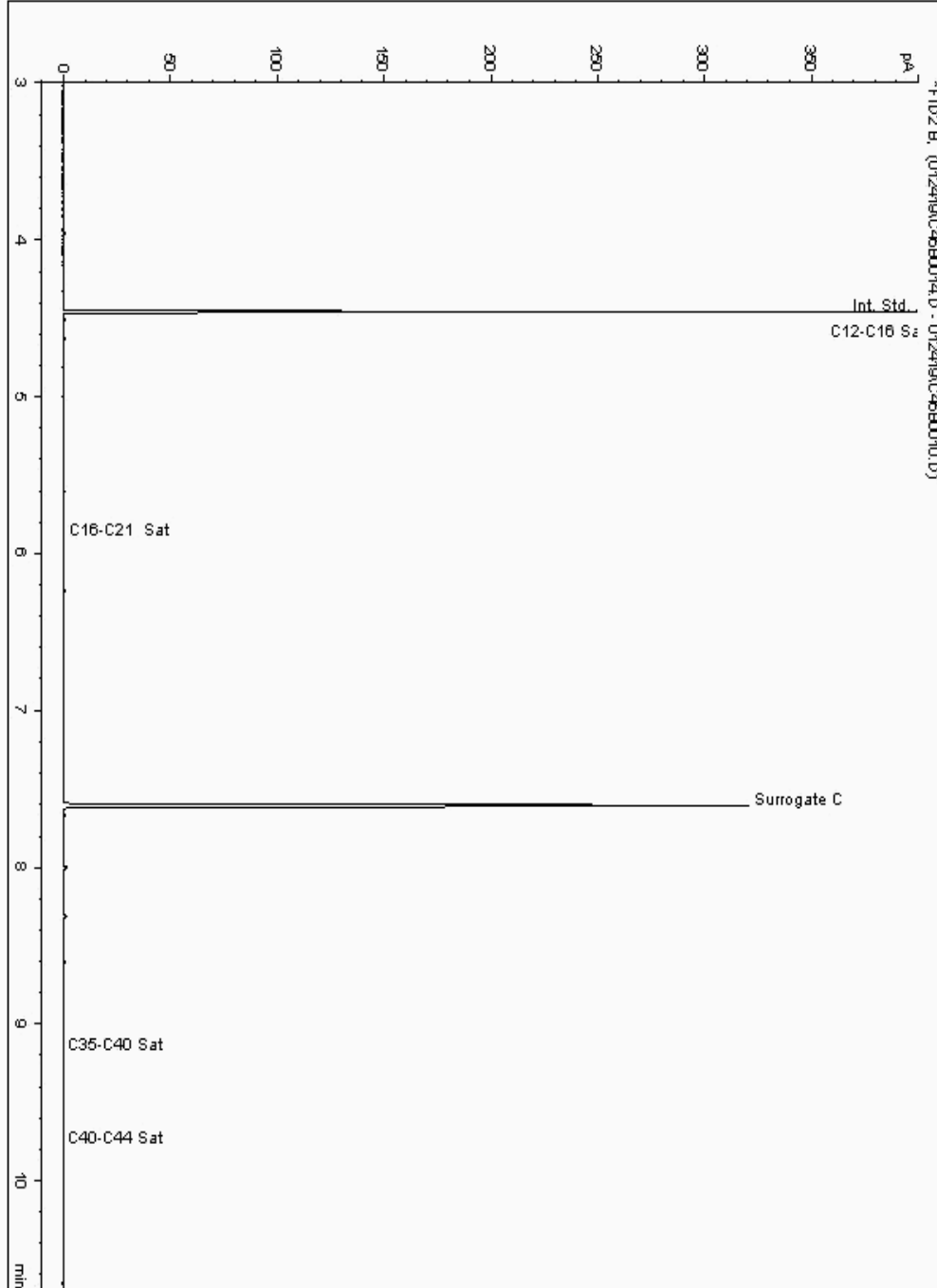
Analysis: EPH CWG (Aliphatic) GC (S)
19154878

Sample No :
Sample ID : BH225

19,154,878 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17997301-
Date Acquired : 24/01/2019 14:25:42 PM
Units : ppb
Dilution: BH225[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

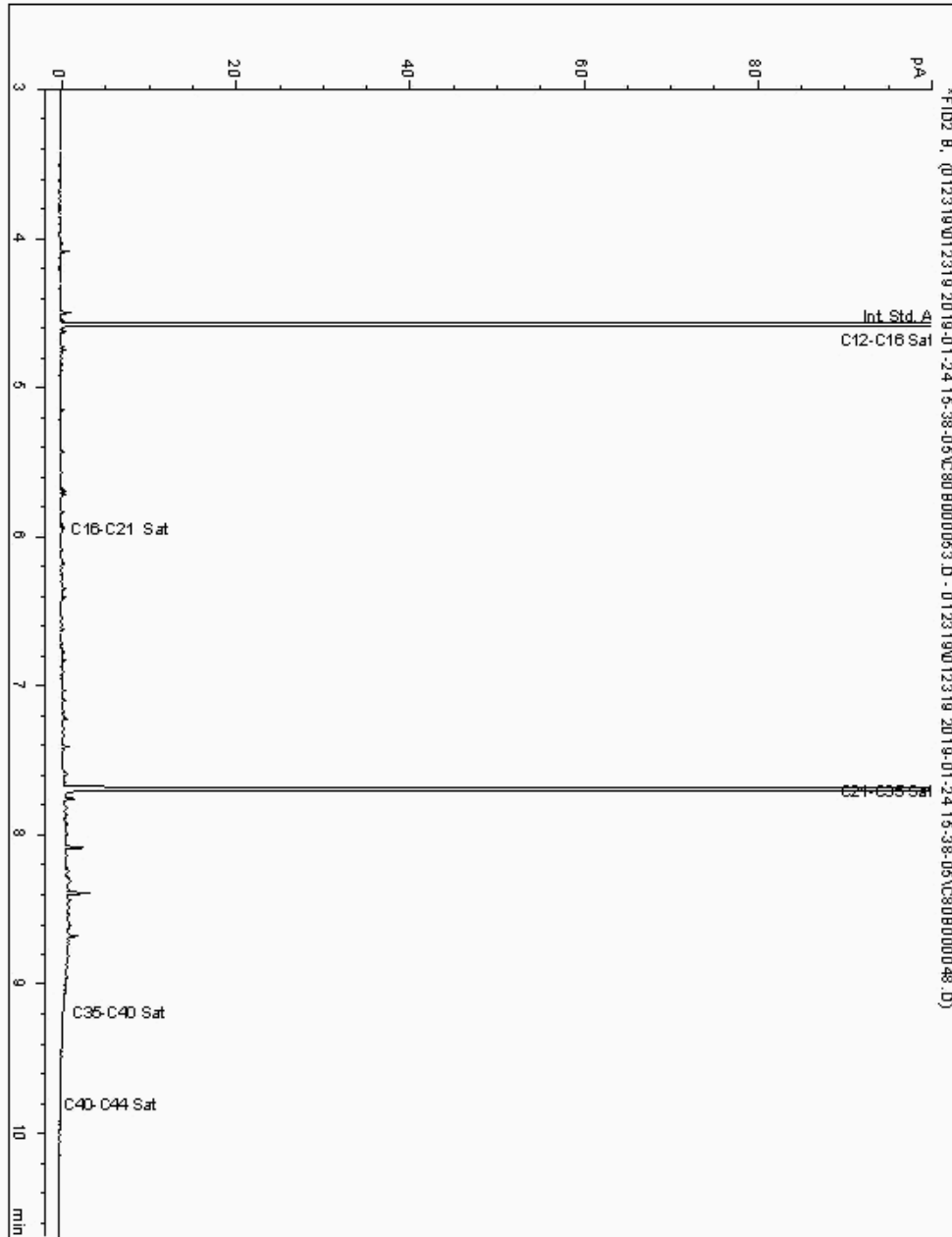
Analysis: EPH CWG (Aliphatic) GC (S)
19155332

Sample No :
Sample ID : BH225

19,155,332Depth :0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997207-
Date Acquired : 24/01/19 16:17:18
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

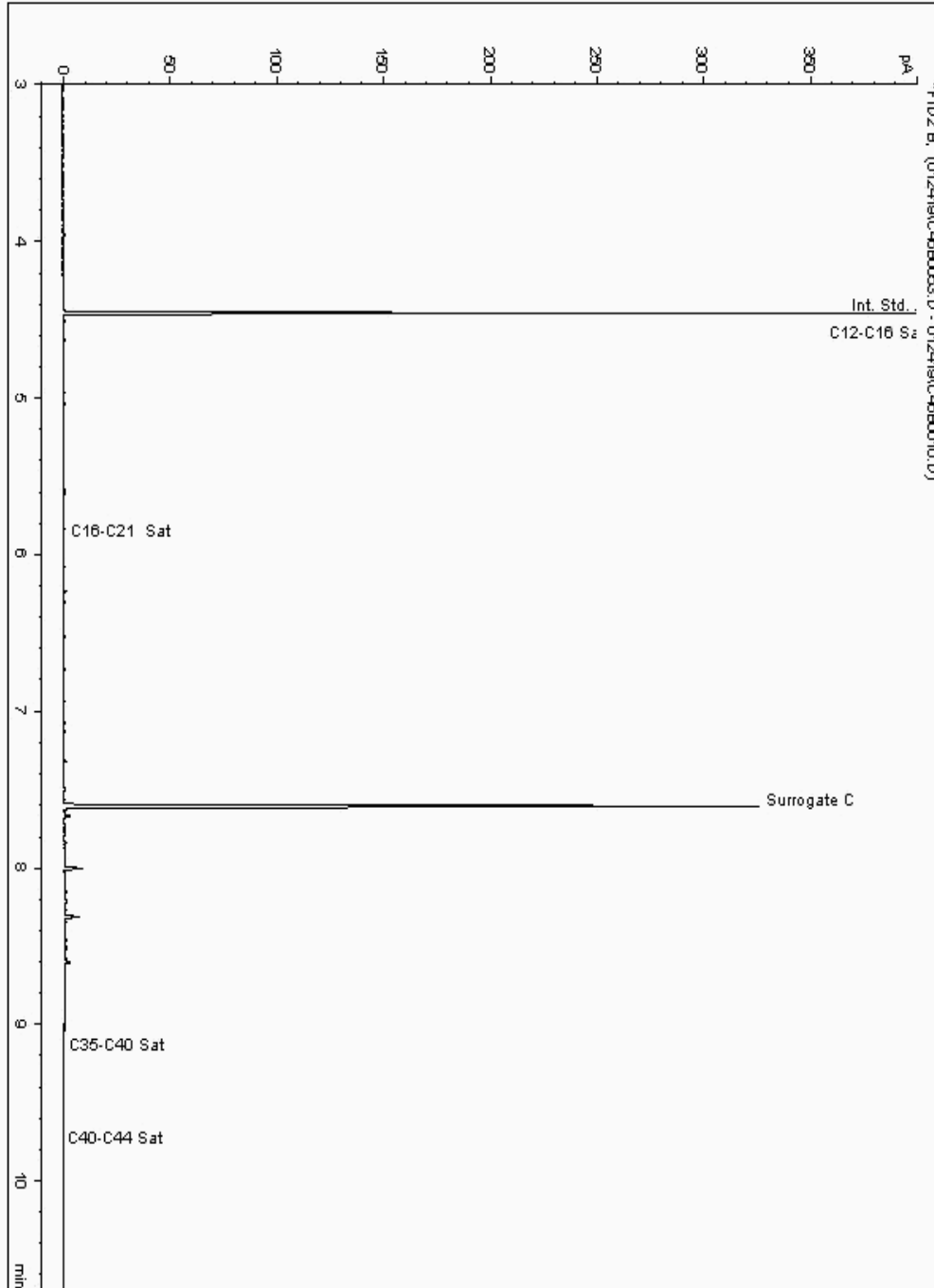
Analysis: EPH CWG (Aliphatic) GC (S)
19155373

Sample No :
Sample ID : BH225

19,155,373 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17997274-
Date Acquired : 25/01/2019 01:37:11 PM
Units : ppb
Dilution: BH225[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

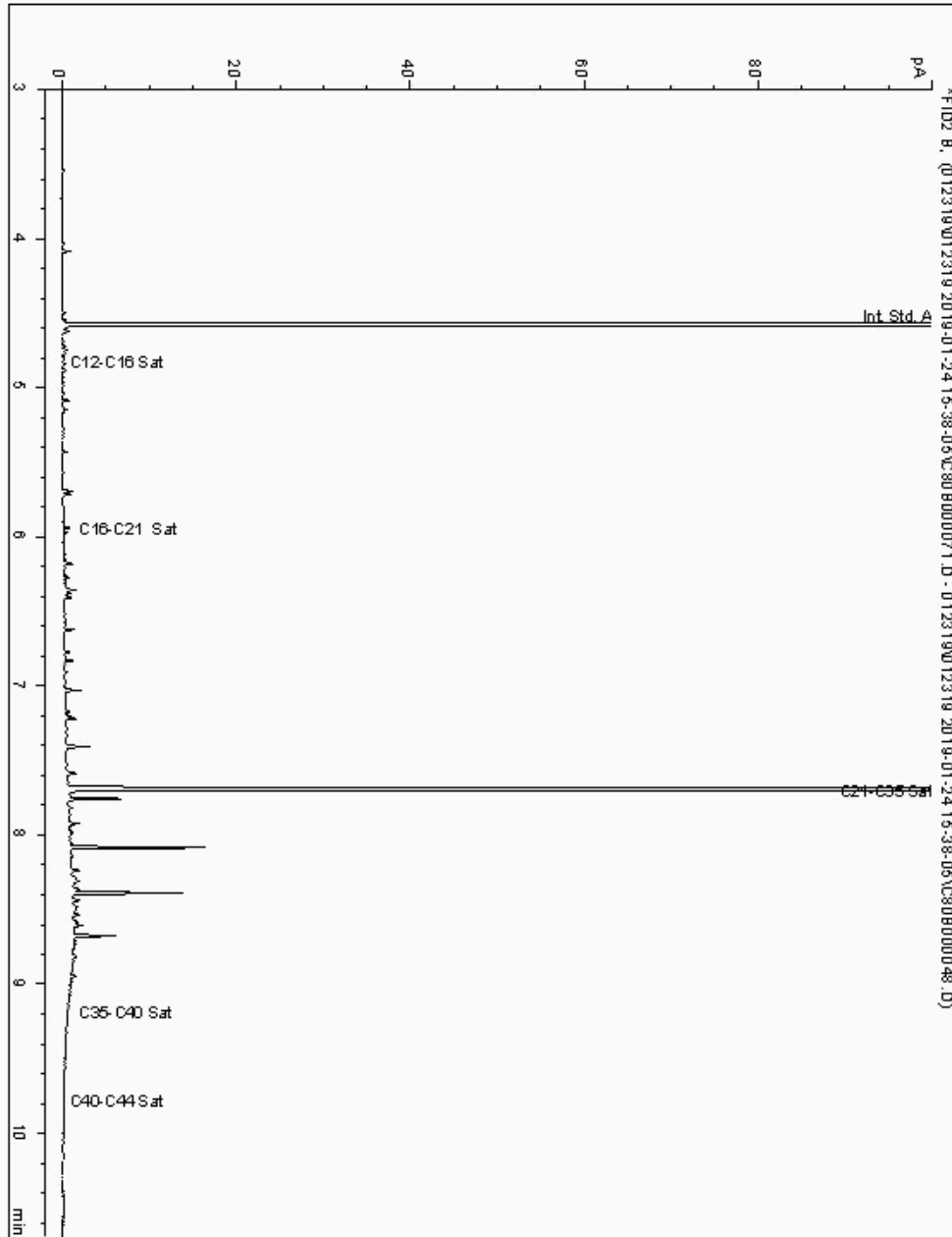
Analysis: EPH CWG (Aliphatic) GC (S)
19155402

Sample No :
Sample ID : BH225

19,155,402Depth :2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997251-
Date Acquired : 24/01/19 21:39:26
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

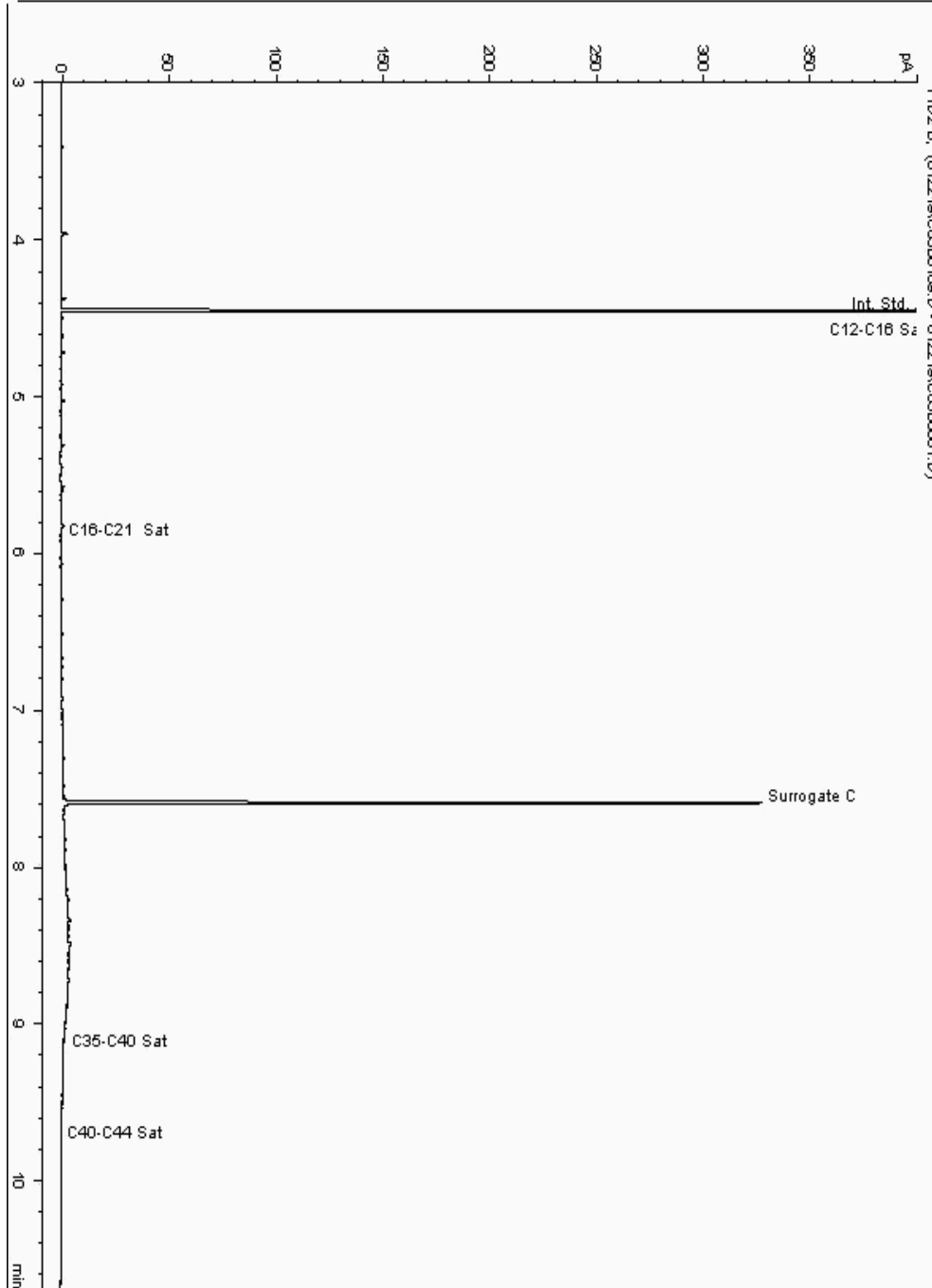
Analysis: EPH CWG (Aliphatic) GC (S)
19156241

Sample No :
Sample ID : BH225

19,156,241 Depth : 15.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997552-
Date Acquired : 24/01/2019 17:41:10 PM
Units : ppb
Dilution: BH225[15.00 - 17.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

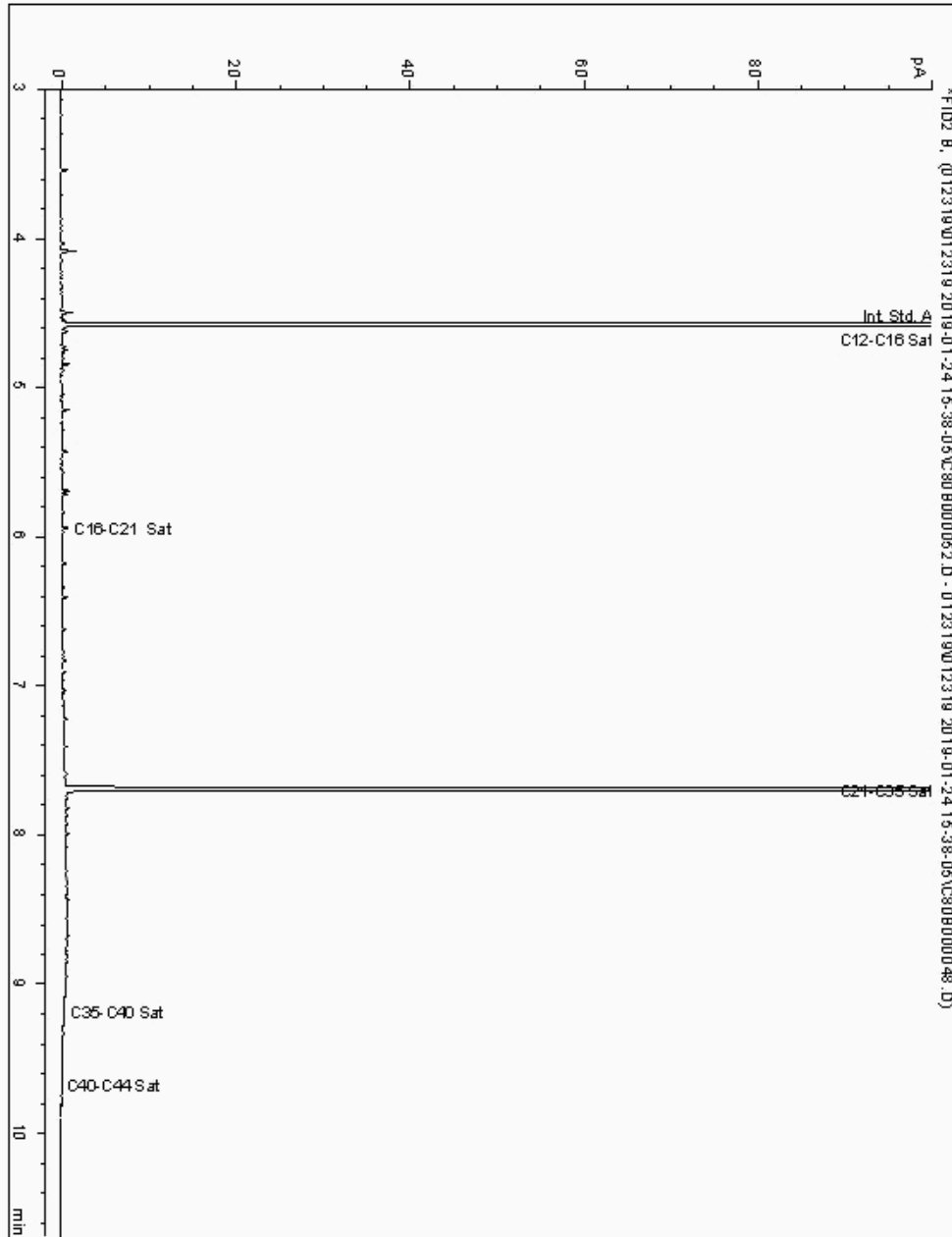
Analysis: EPH CWG (Aliphatic) GC (S)
19156348

Sample No :
Sample ID : BH225

19,156,348 Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997481-
Date Acquired : 24/01/19 15:25:05
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

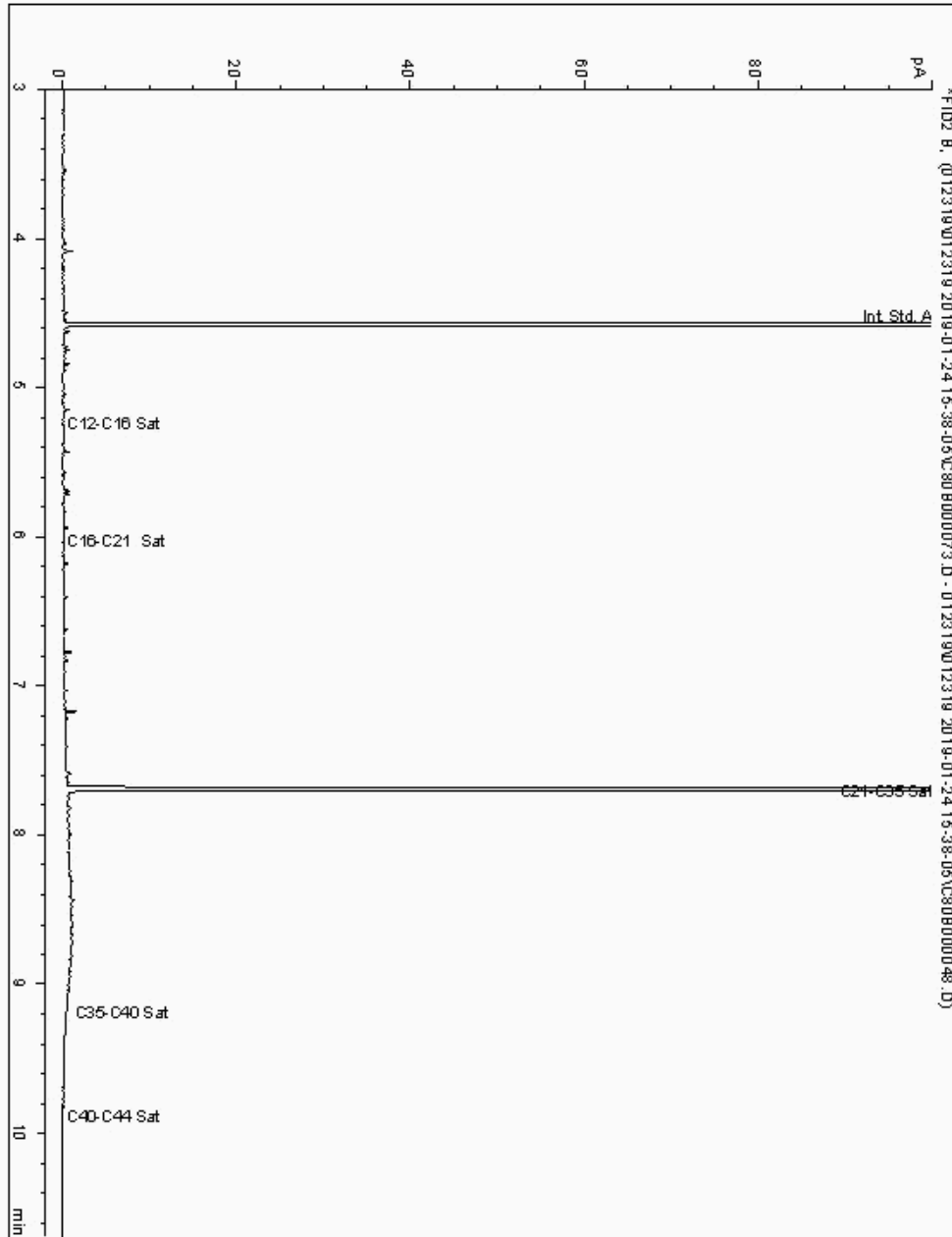
Analysis: EPH CWG (Aliphatic) GC (S)
19156441

Sample No :
Sample ID : BH225

19,156,441 Depth : 12.00 - 13.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997447-
Date Acquired : 24/01/19 22:11:33
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

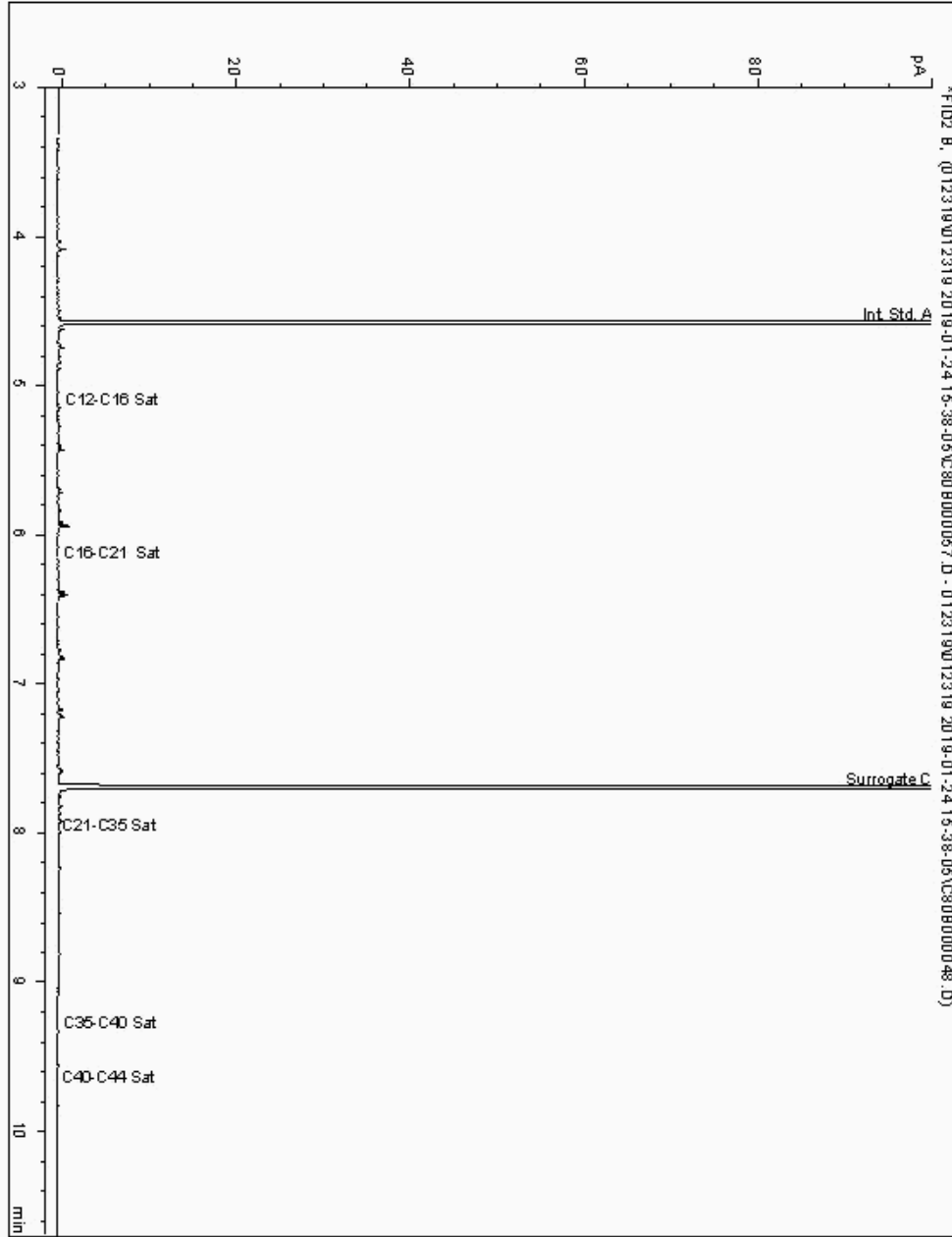
Analysis: EPH CWG (Aliphatic) GC (S)
19156479

Sample No :
Sample ID : BH225

19,156,479 Depth : 10.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997390-
Date Acquired : 24/01/19 17:30:25
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

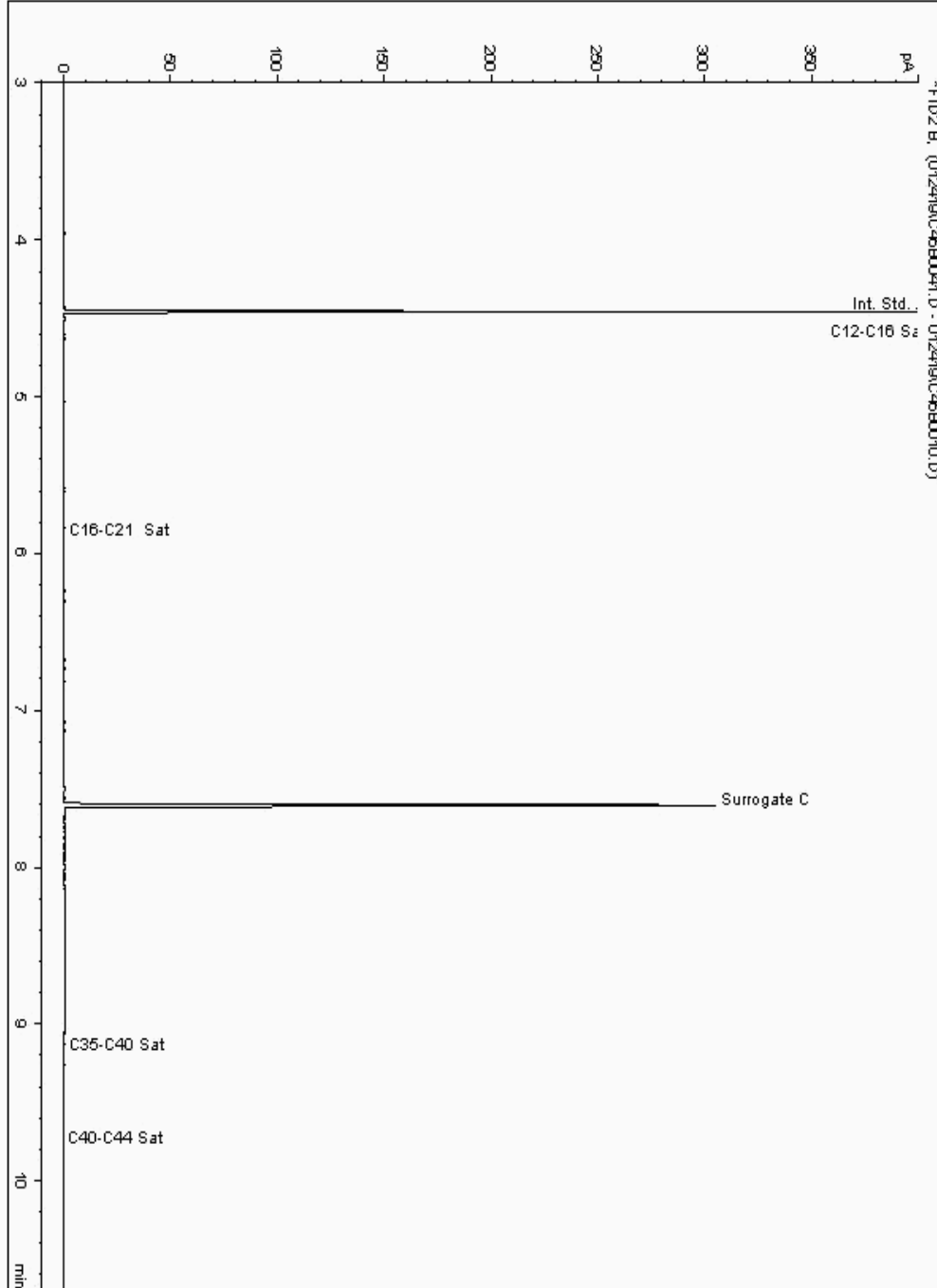
Analysis: EPH CWG (Aliphatic) GC (S)
19156512

Sample No :
Sample ID : BH225

19,156,512 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17997354-
Date Acquired : 24/01/2019 22:02:15 PM
Units : ppb
Dilution: BH225[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

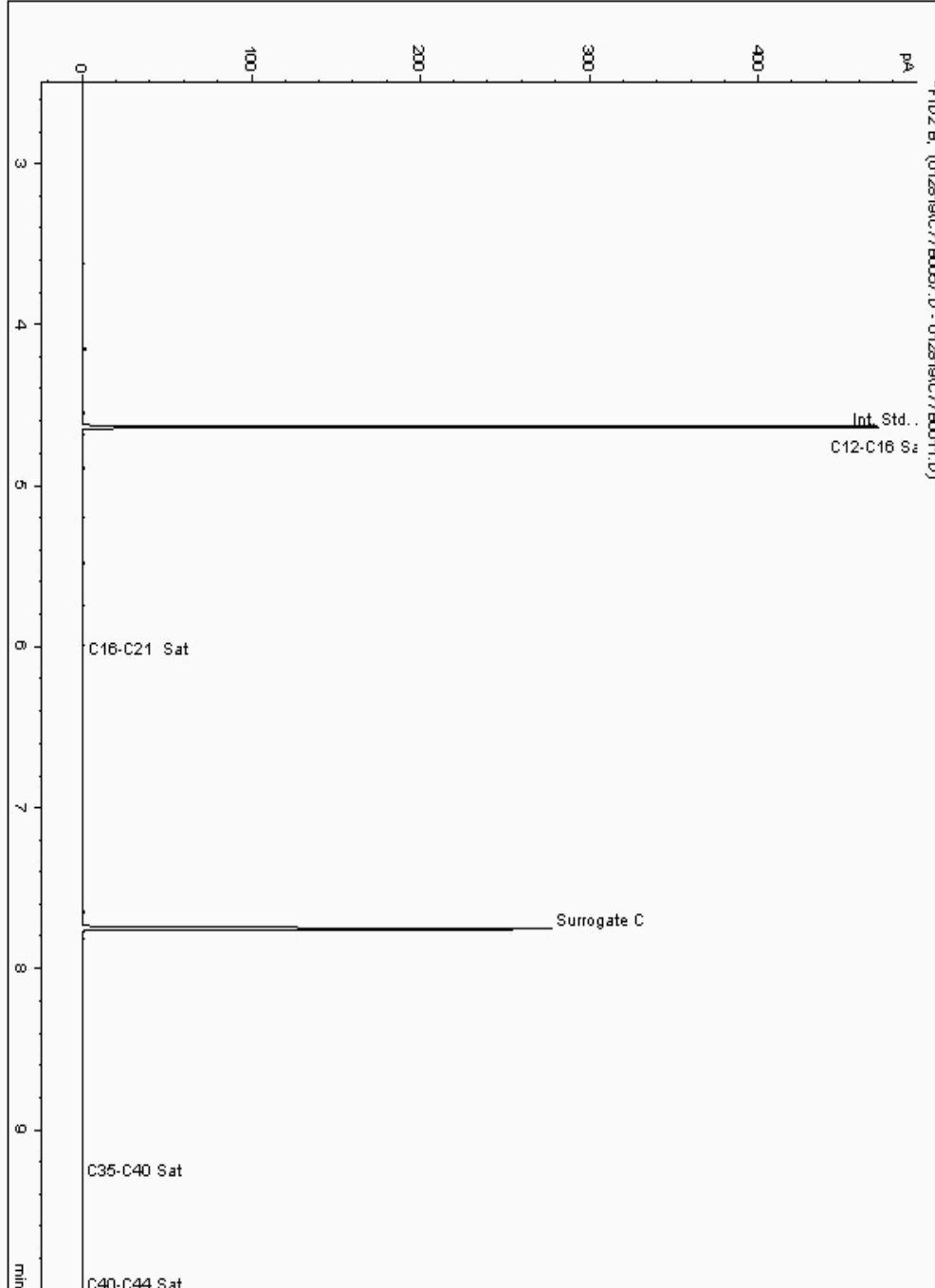
Analysis: EPH CWG (Aliphatic) GC (S)
19177782

Sample No :
Sample ID : BH229

19,177,782 Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017378-
Date Acquired : 1/29/2019 7:50:35 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

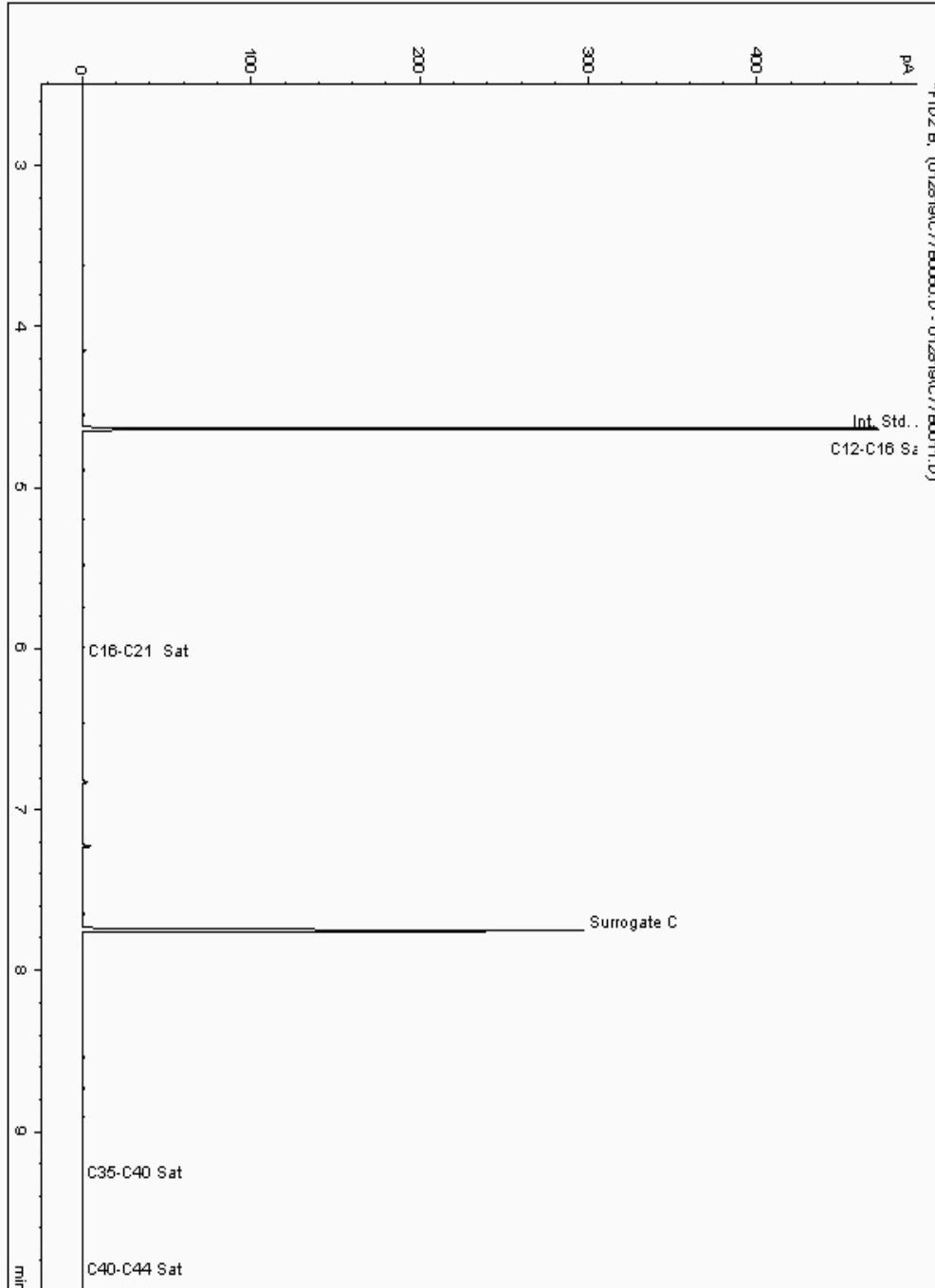
Analysis: EPH CWG (Aliphatic) GC (S)
19177850

Sample No :
Sample ID : BH228

19,177,850 Depth : 11.00 - 13.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017016-
Date Acquired : 1/29/2019 8:51:03 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

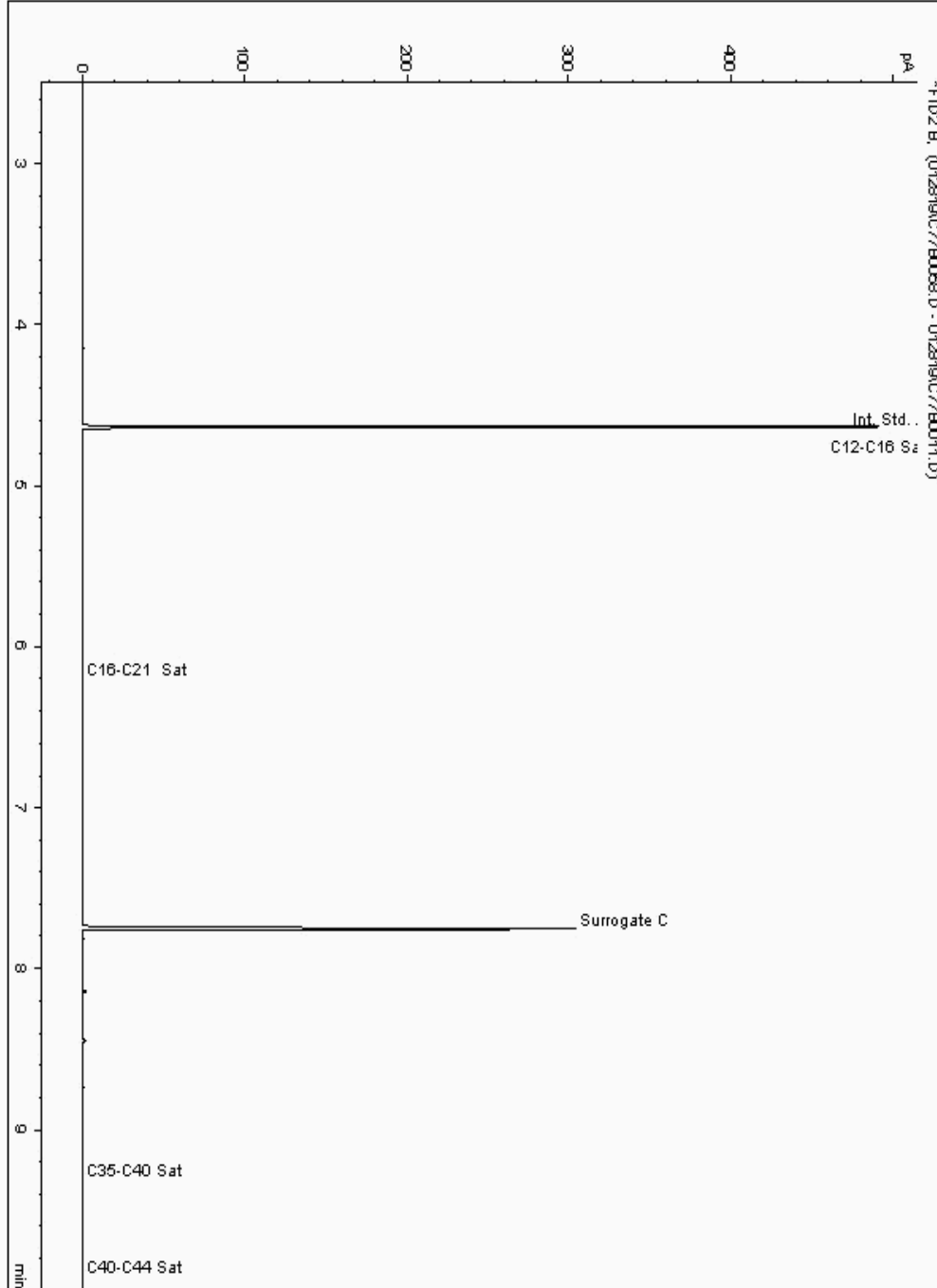
Analysis: EPH CWG (Aliphatic) GC (S)
19177932

Sample No :
Sample ID : BH228

19,177,932 Depth : 10.00 - 11.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016981-
Date Acquired : 1/29/2019 8:10:45 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

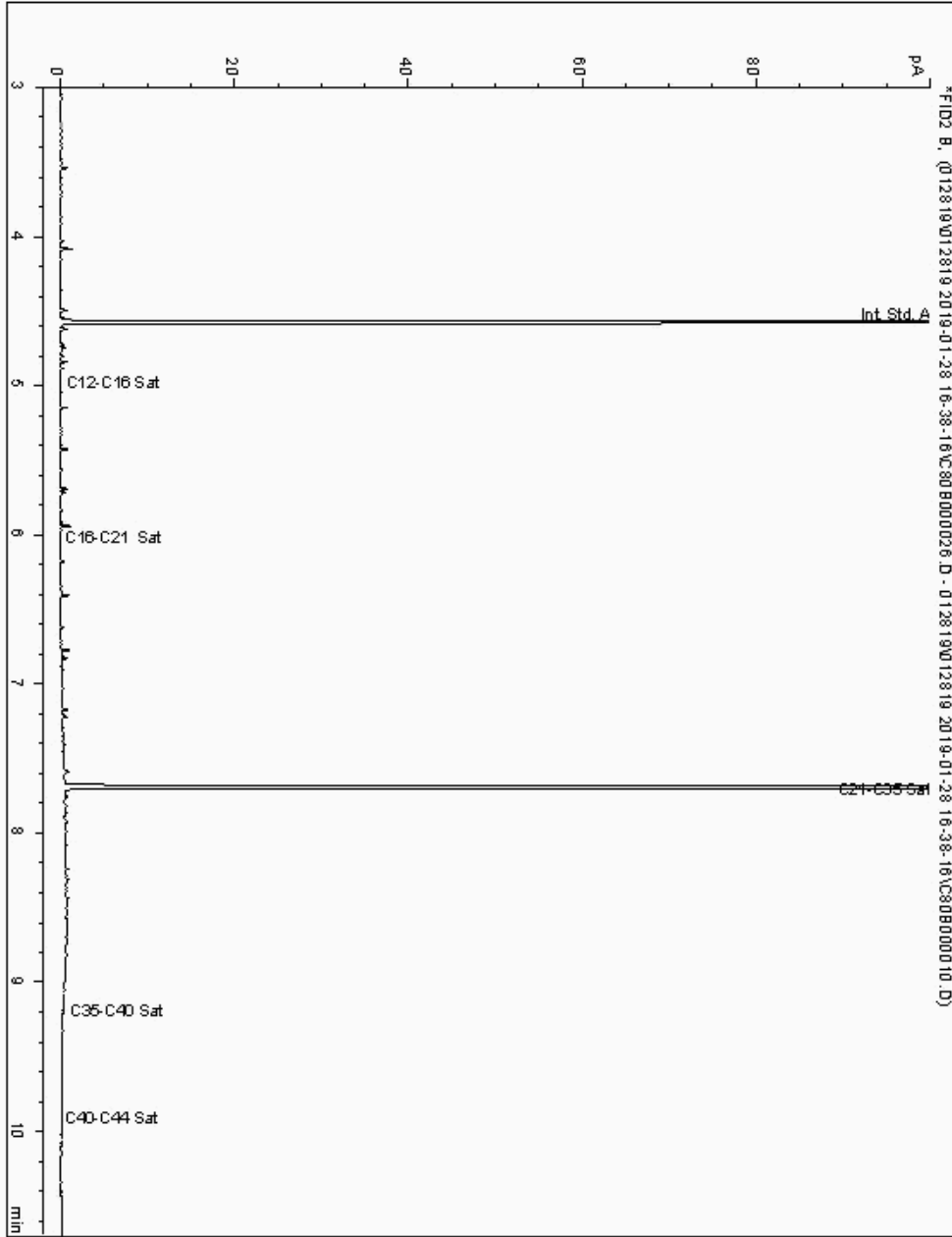
Analysis: EPH CWG (Aliphatic) GC (S)
19178036

Sample No :
Sample ID : BH227

19,178,036 Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016696-
Date Acquired : 29/01/19 00:45:15
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

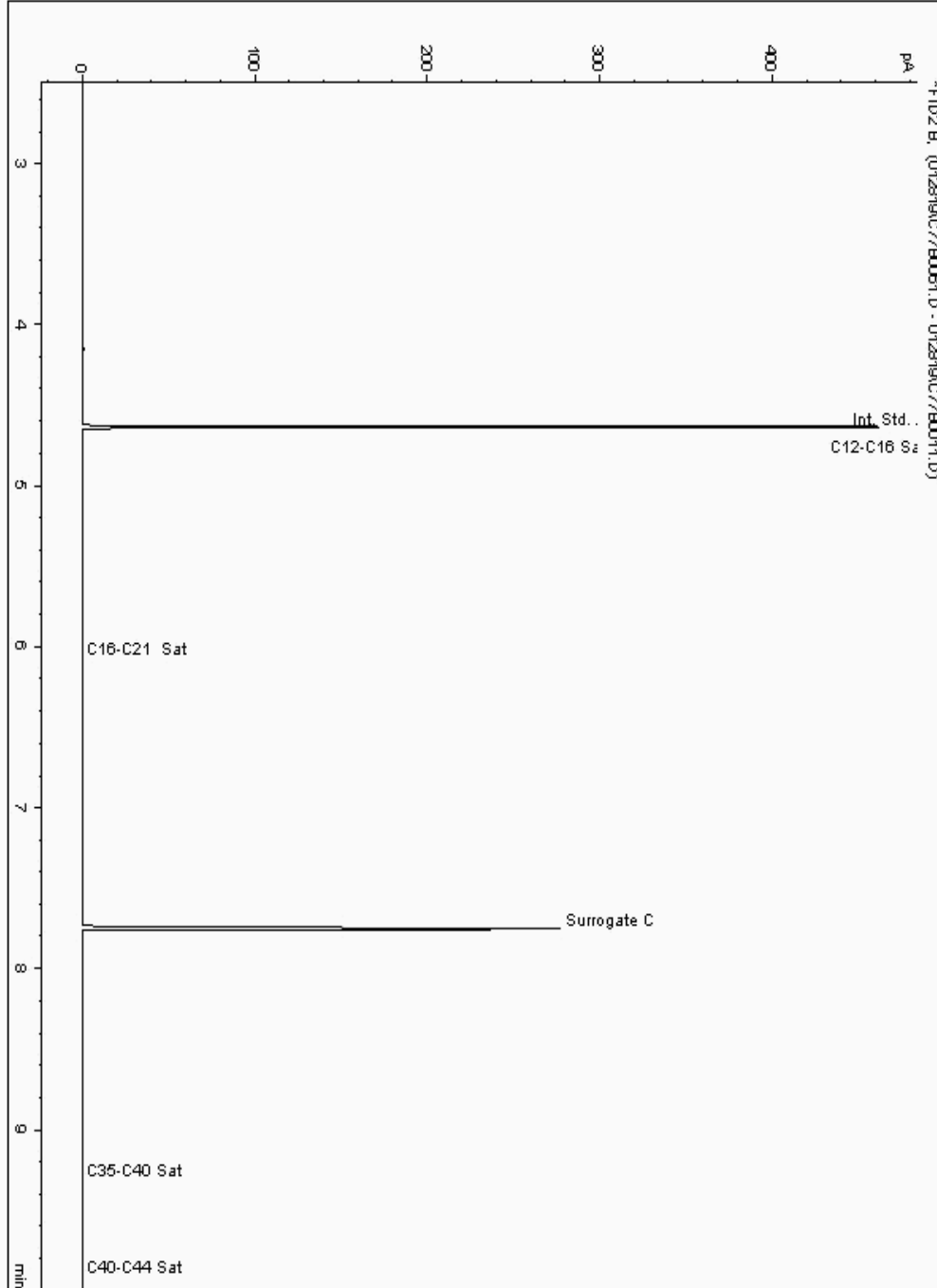
Analysis: EPH CWG (Aliphatic) GC (S)
19178070

Sample No :
Sample ID : BH227

19,178,070 Depth : 12.00 - 13.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016663-
Date Acquired : 1/29/2019 9:11:05 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

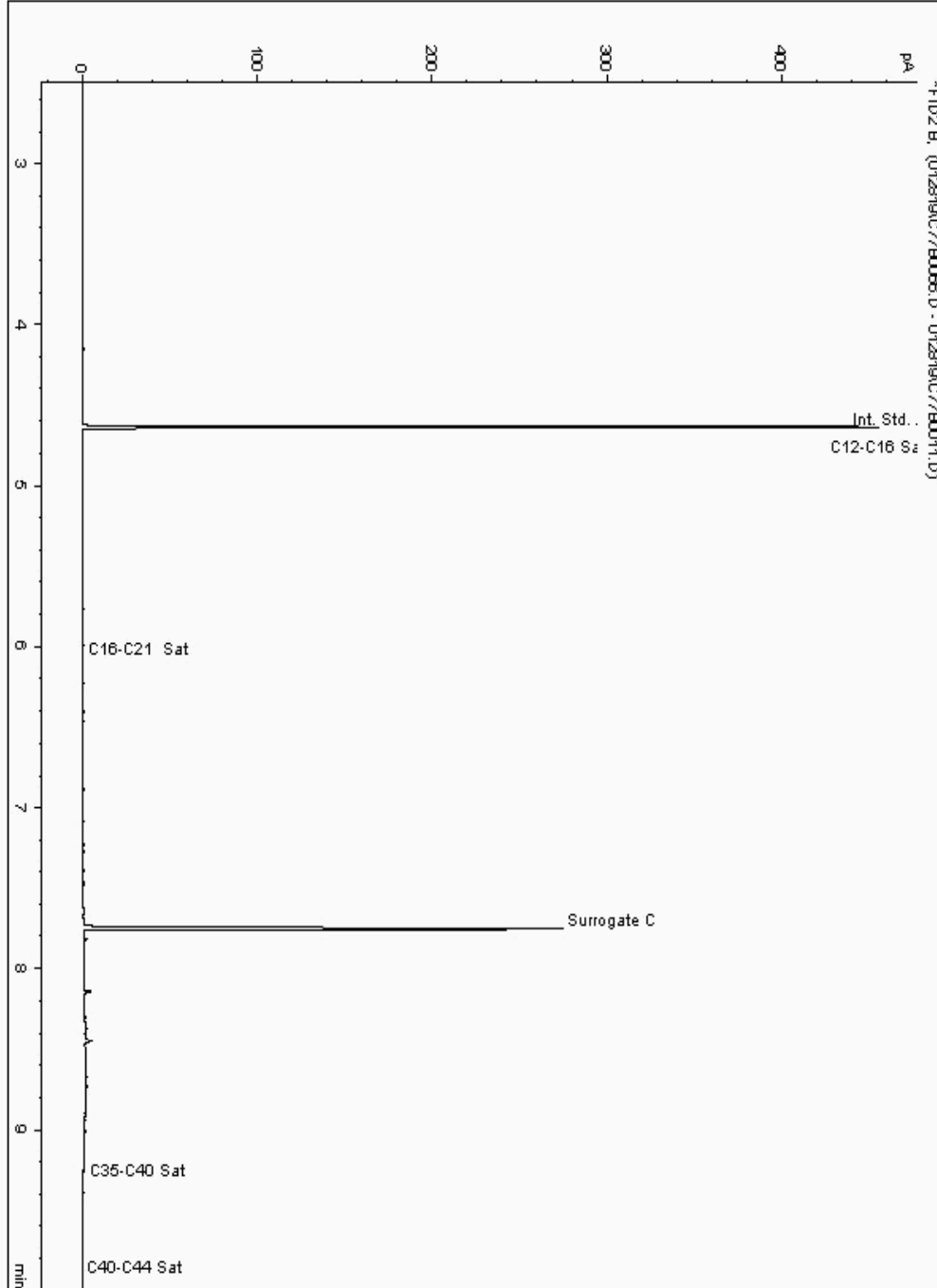
Analysis: EPH CWG (Aliphatic) GC (S)
19178071

Sample No :
Sample ID : BH228

19,178,071 Depth : 0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016774-
Date Acquired : 1/29/2019 10:49:30 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

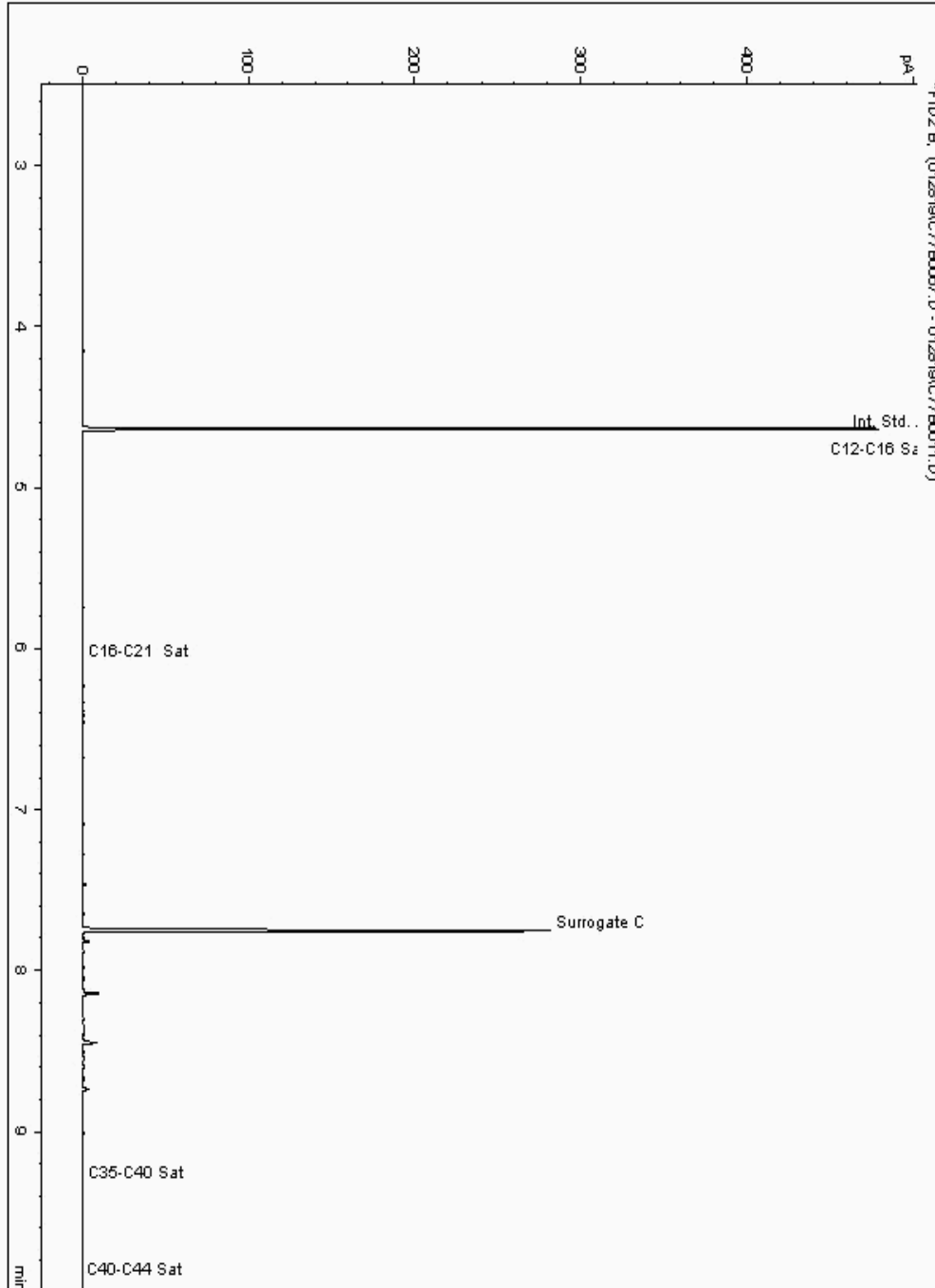
Analysis: EPH CWG (Aliphatic) GC (S)
19178129

Sample No :
Sample ID : BH227

19,178,129Depth :3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016518-
Date Acquired : 1/29/2019 11:09:45 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

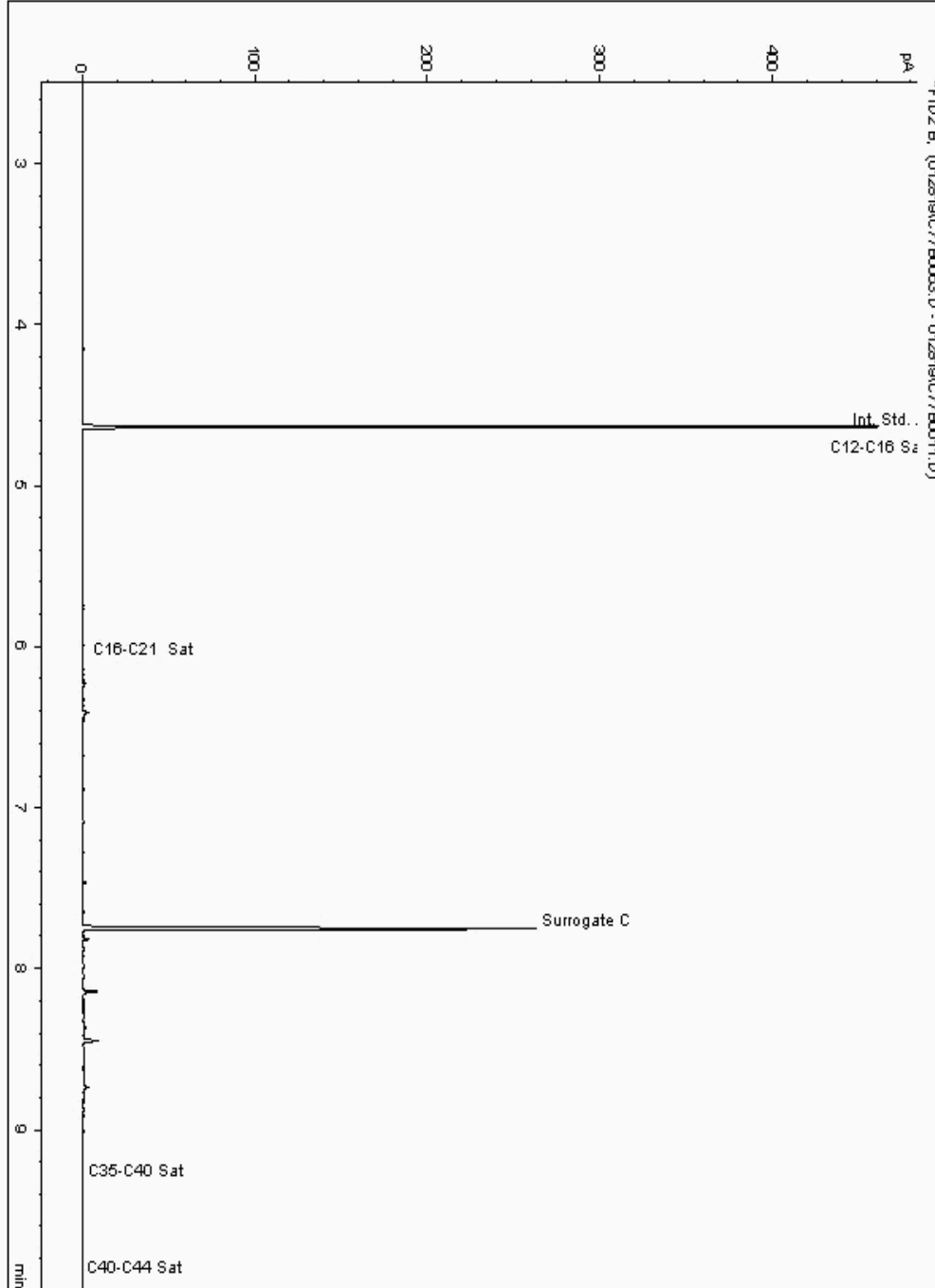
Analysis: EPH CWG (Aliphatic) GC (S)
19178196

Sample No :
Sample ID : BH229

19,178,196Depth :4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017265-
Date Acquired : 1/29/2019 9:51:24 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

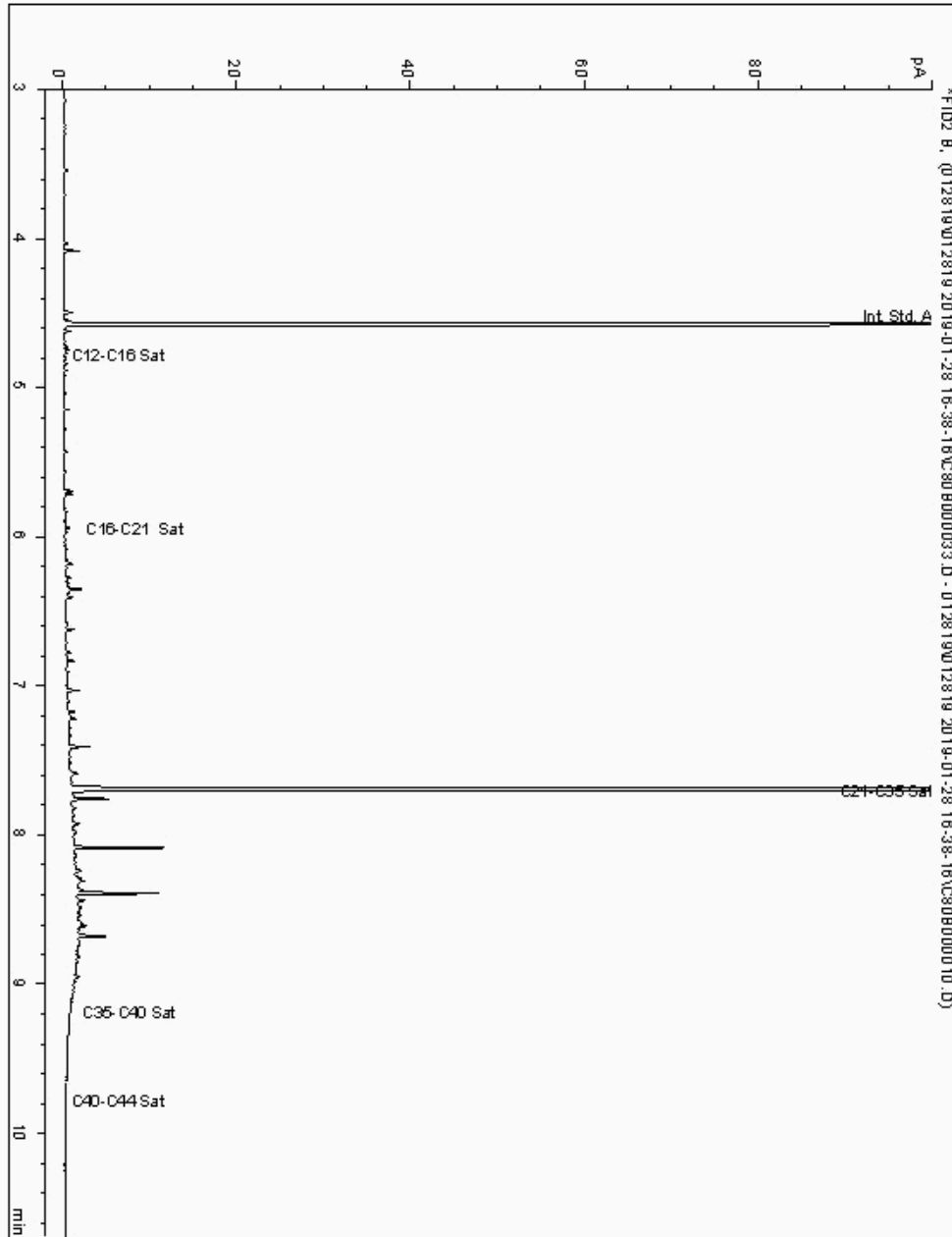
Analysis: EPH CWG (Aliphatic) GC (S)
19178333

Sample No :
Sample ID : BH228

19,178,333Depth :2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016811-
Date Acquired : 29/01/19 02:42:03
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

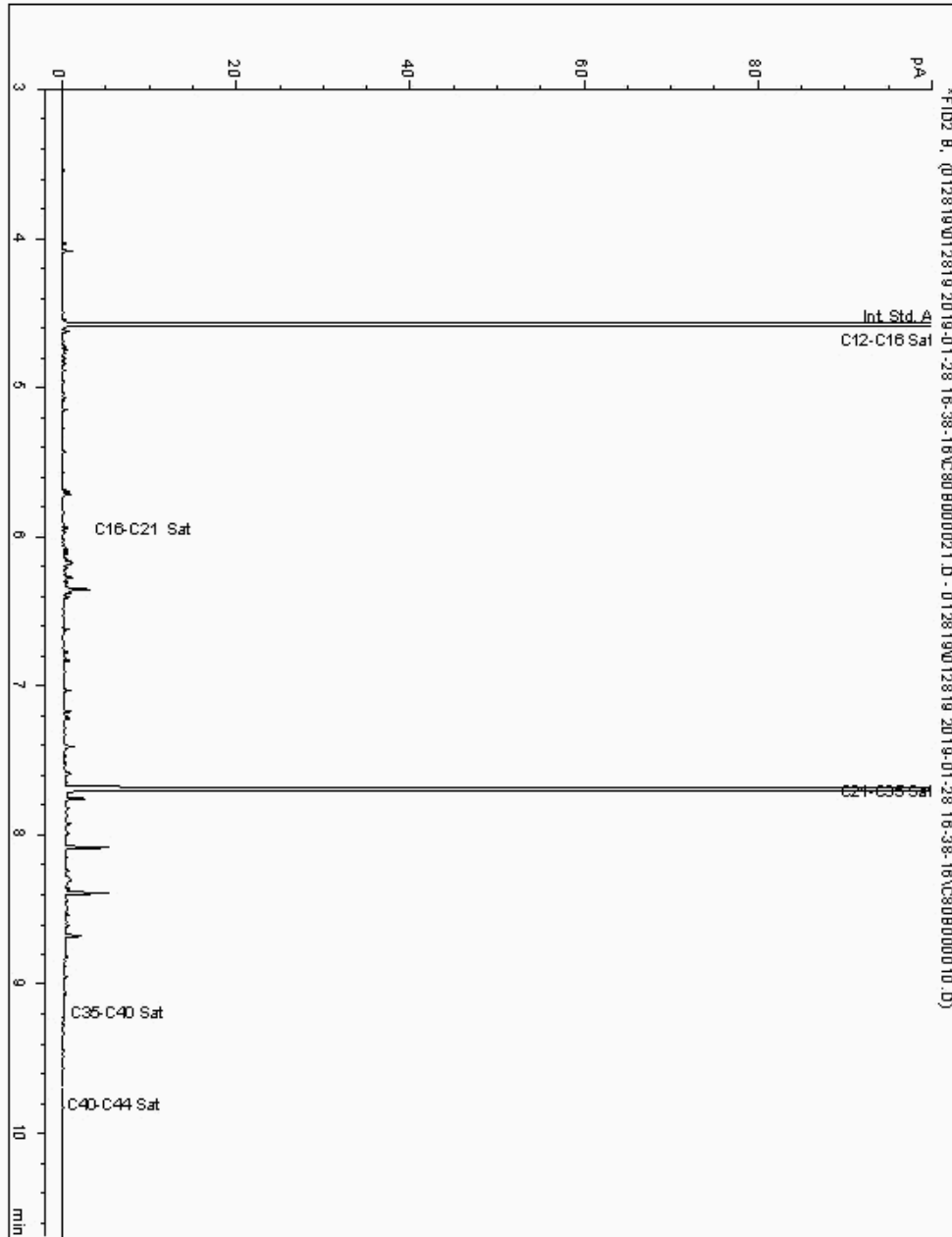
Analysis: EPH CWG (Aliphatic) GC (S)
19178403

Sample No :
Sample ID : BH228

19,178,403Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016865-
Date Acquired : 28/01/19 23:04:08
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

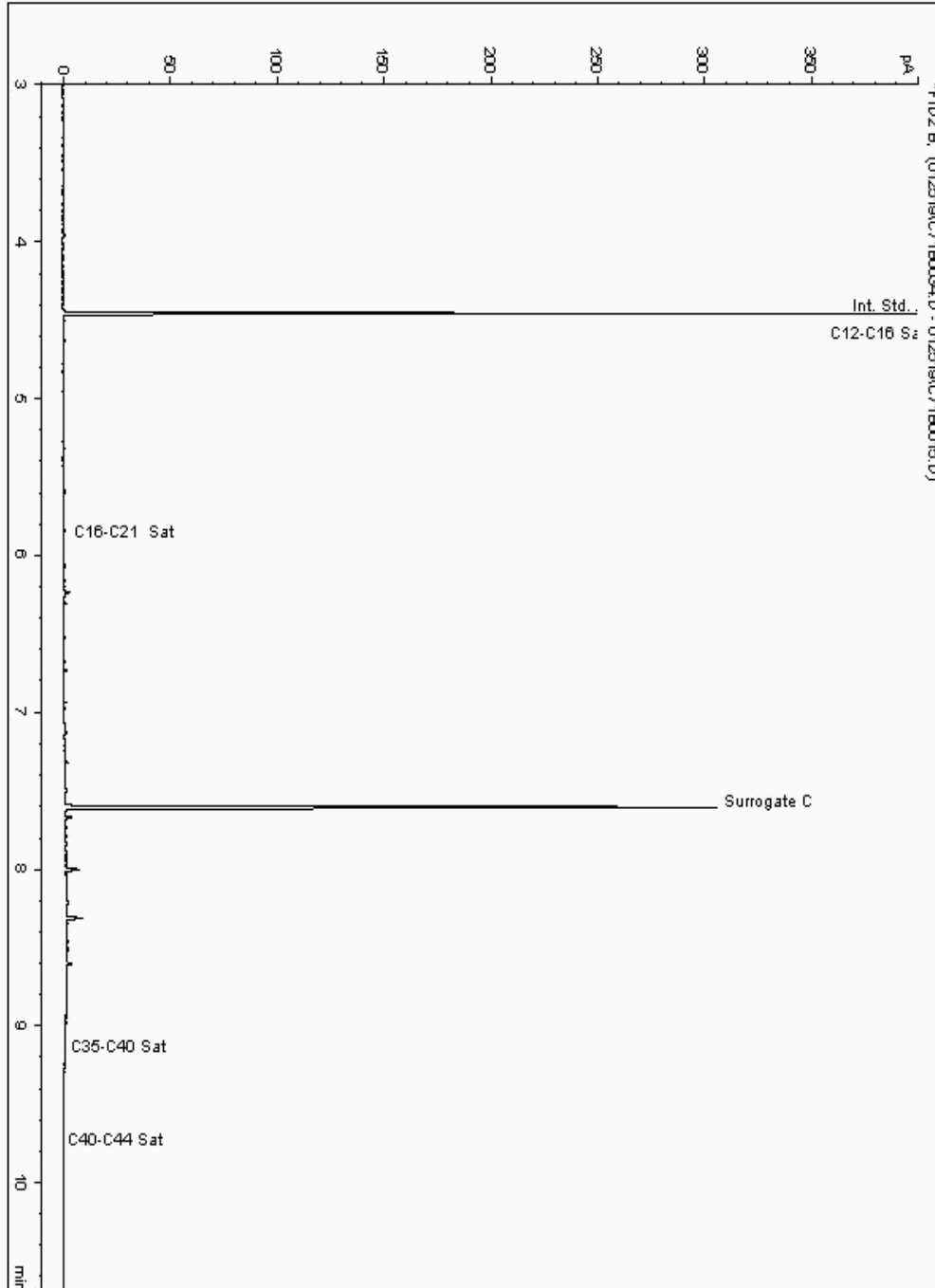
Analysis: EPH CWG (Aliphatic) GC (S)
19178413

Sample No :
Sample ID : BH228

19,178,413 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017427-
Date Acquired : 26/01/2019 00:39:04 PM
Units : ppb
Dilution: BH228[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

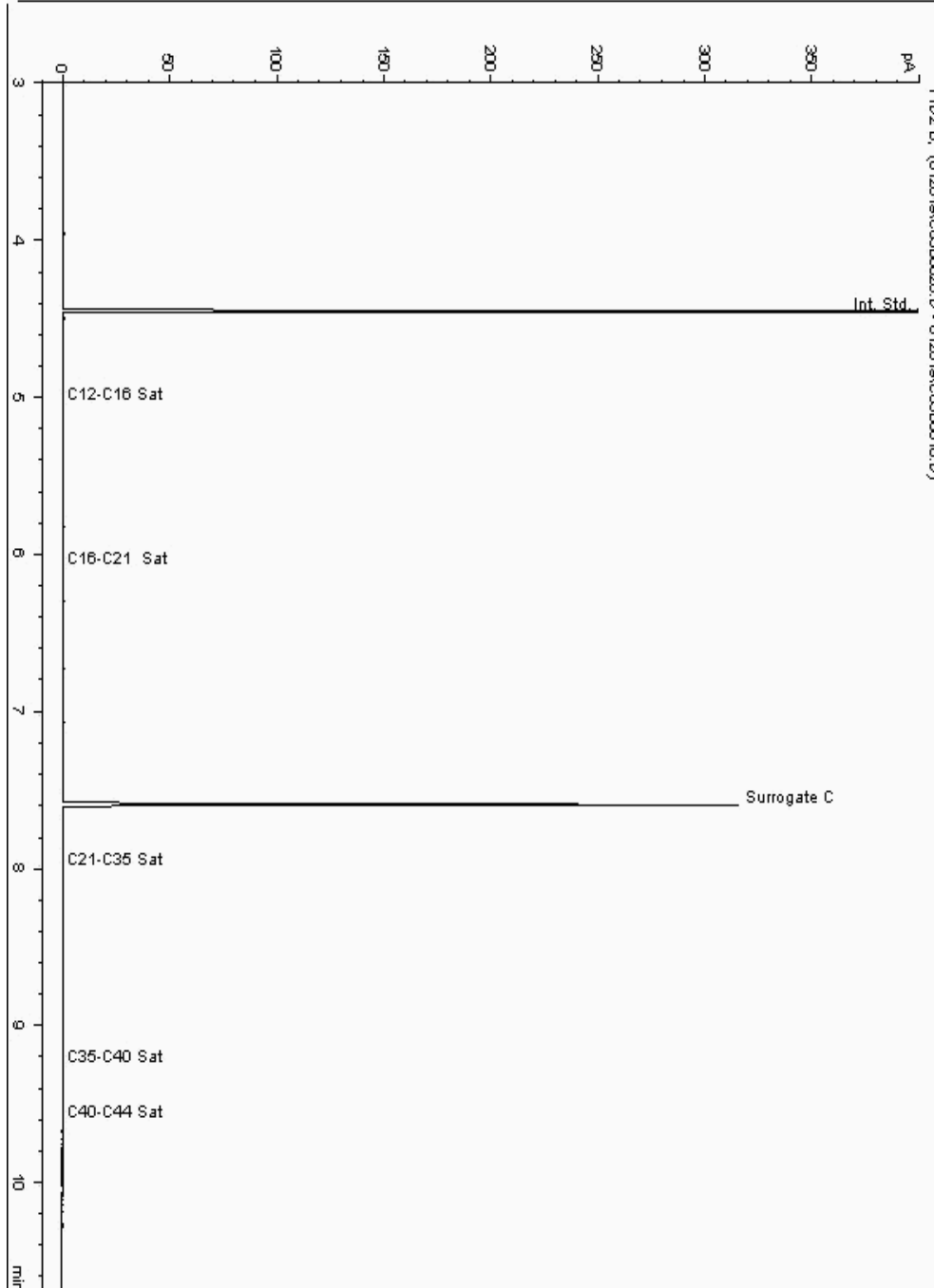
Analysis: EPH CWG (Aliphatic) GC (S)
19178508

Sample No :
Sample ID : BH226

19,178,508 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016344-
Date Acquired : 26/01/2019 16:07:18 PM
Units : ppb
Dilution: BH226[13.00 - 14.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

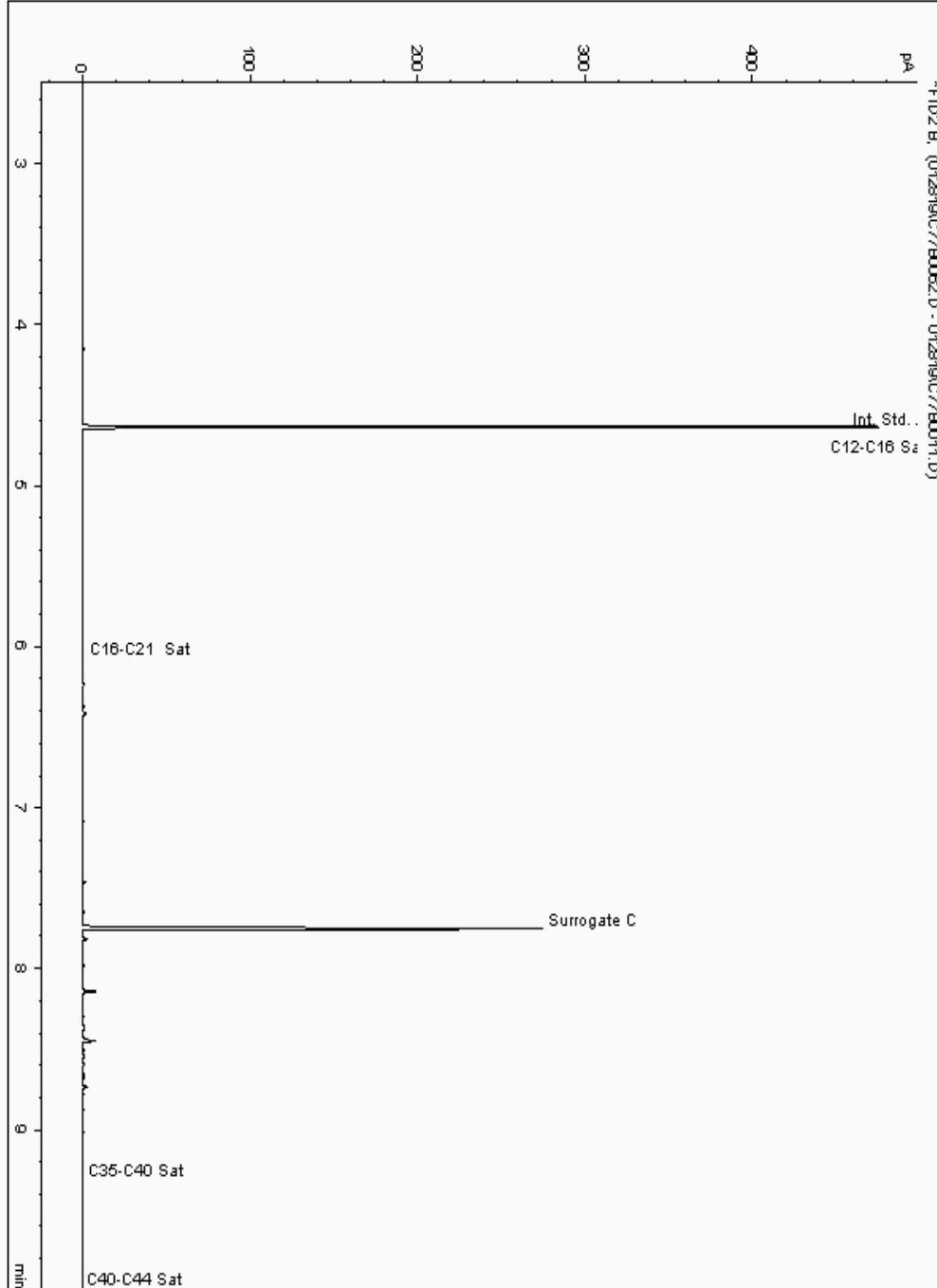
Analysis: EPH CWG (Aliphatic) GC (S)
19178560

Sample No :
Sample ID : BH228

19,178,560 Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016840-
Date Acquired : 1/29/2019 9:31:16 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

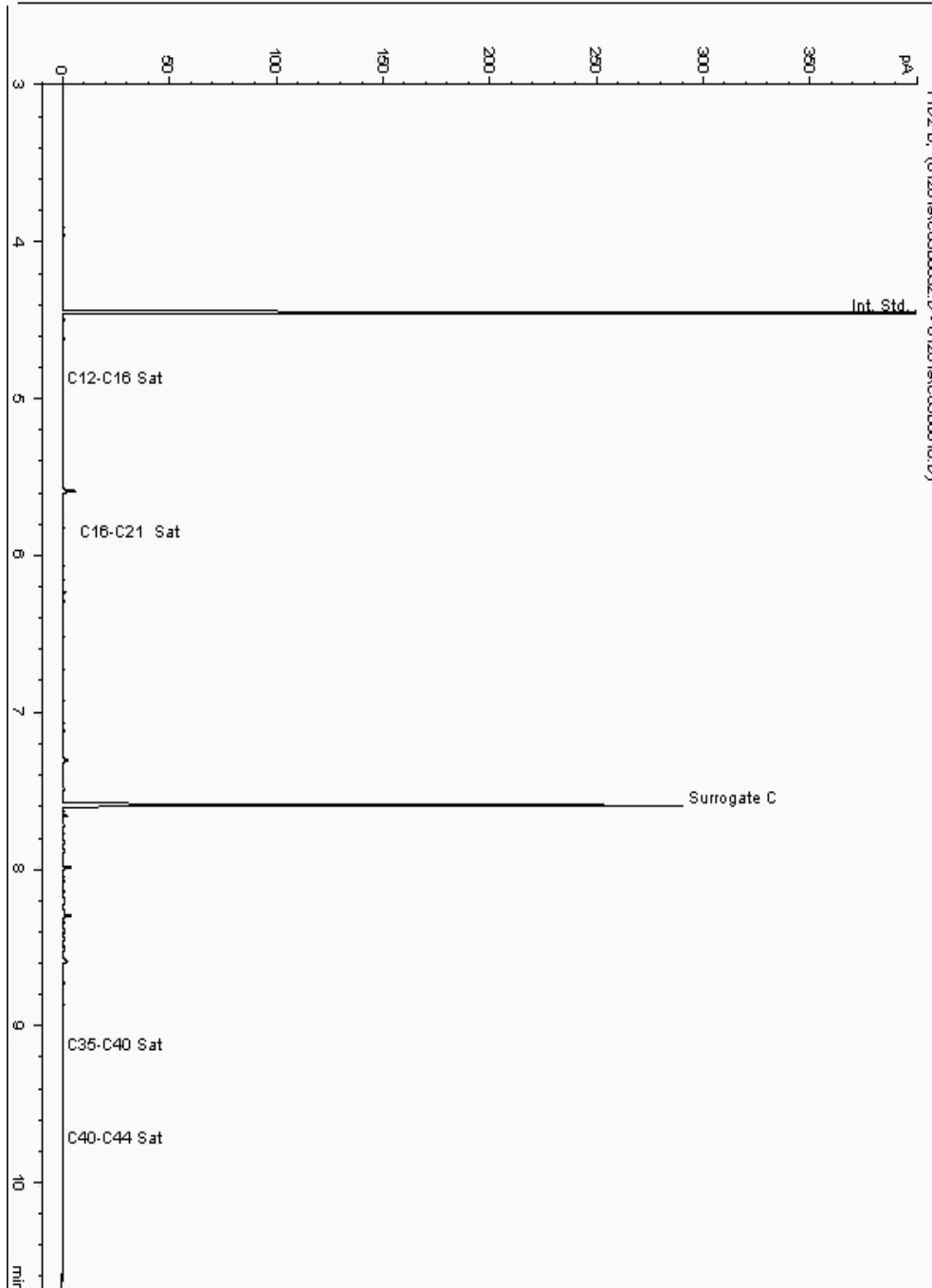
Analysis: EPH CWG (Aliphatic) GC (S)
19178569

Sample No :
Sample ID : BH228

19,178,569 Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016896-
Date Acquired : 26/01/2019 19:40:27 PM
Units : ppb
Dilution: BH228[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

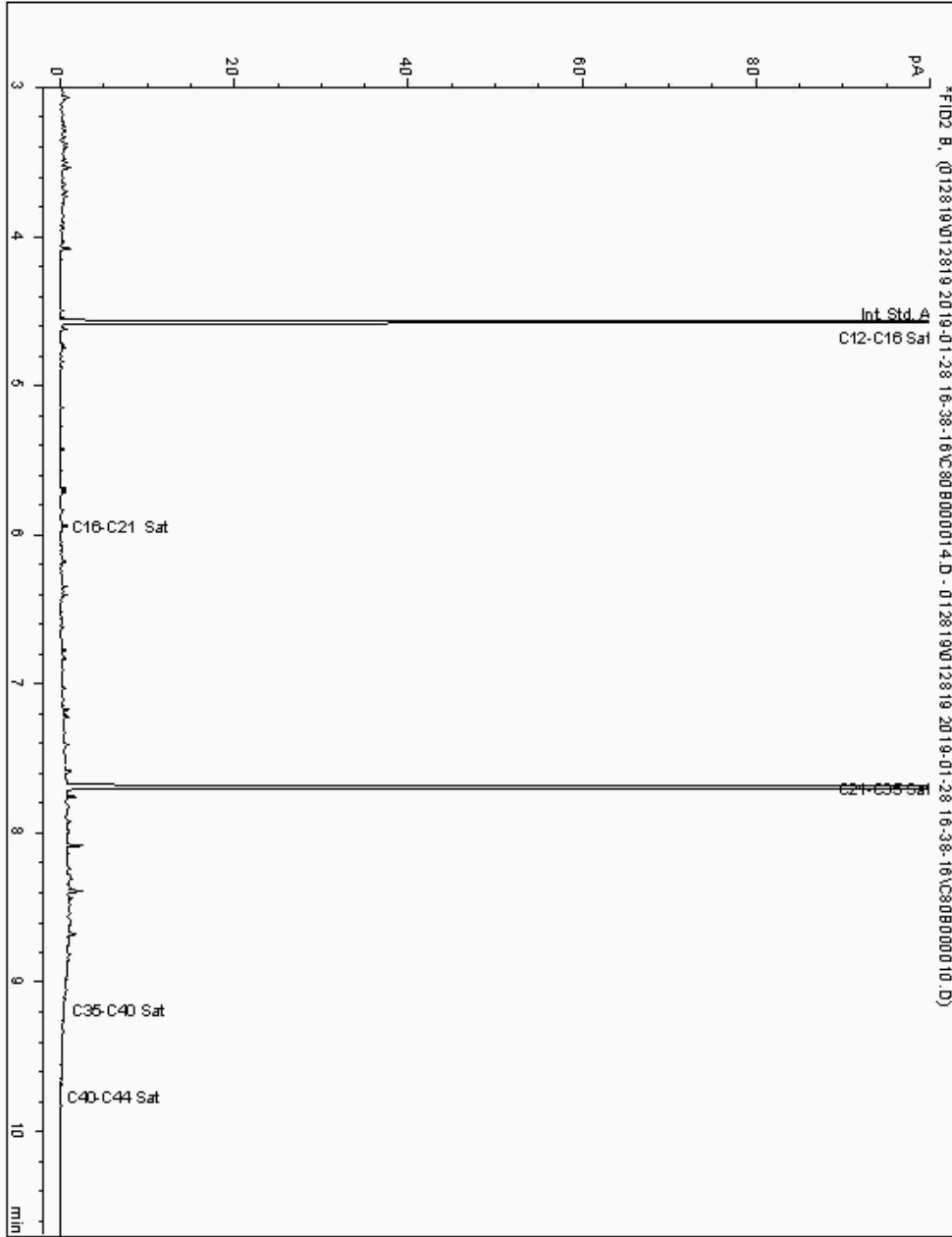
Analysis: EPH CWG (Aliphatic) GC (S)
19178659

Sample No :
Sample ID : BH227

19,178,659 Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016490-
Date Acquired : 28/01/19 20:59:50
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

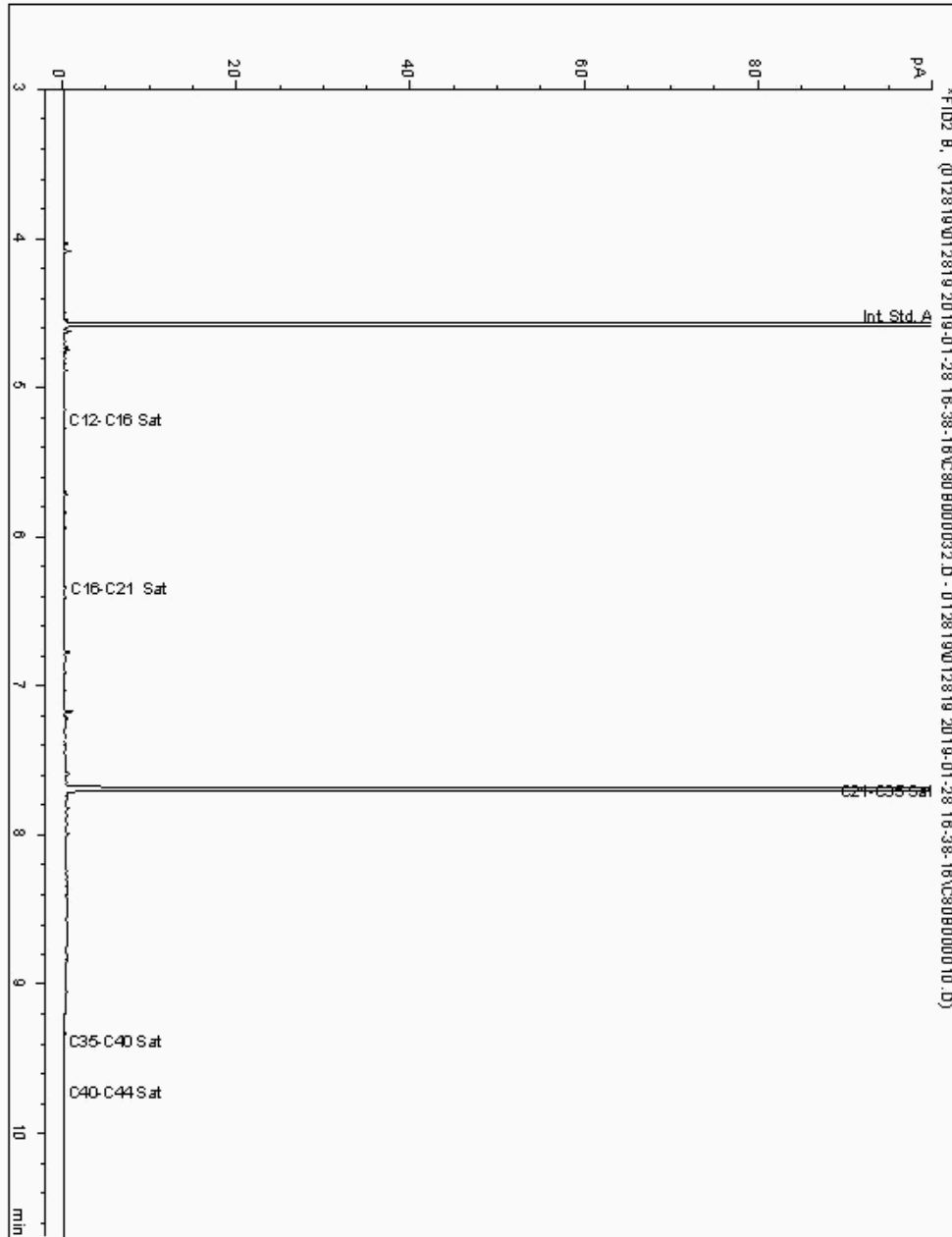
Analysis: EPH CWG (Aliphatic) GC (S)
19178699

Sample No :
Sample ID : BH226

19,178,699Depth : 10.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016322-
Date Acquired : 29/01/19 02:21:33
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

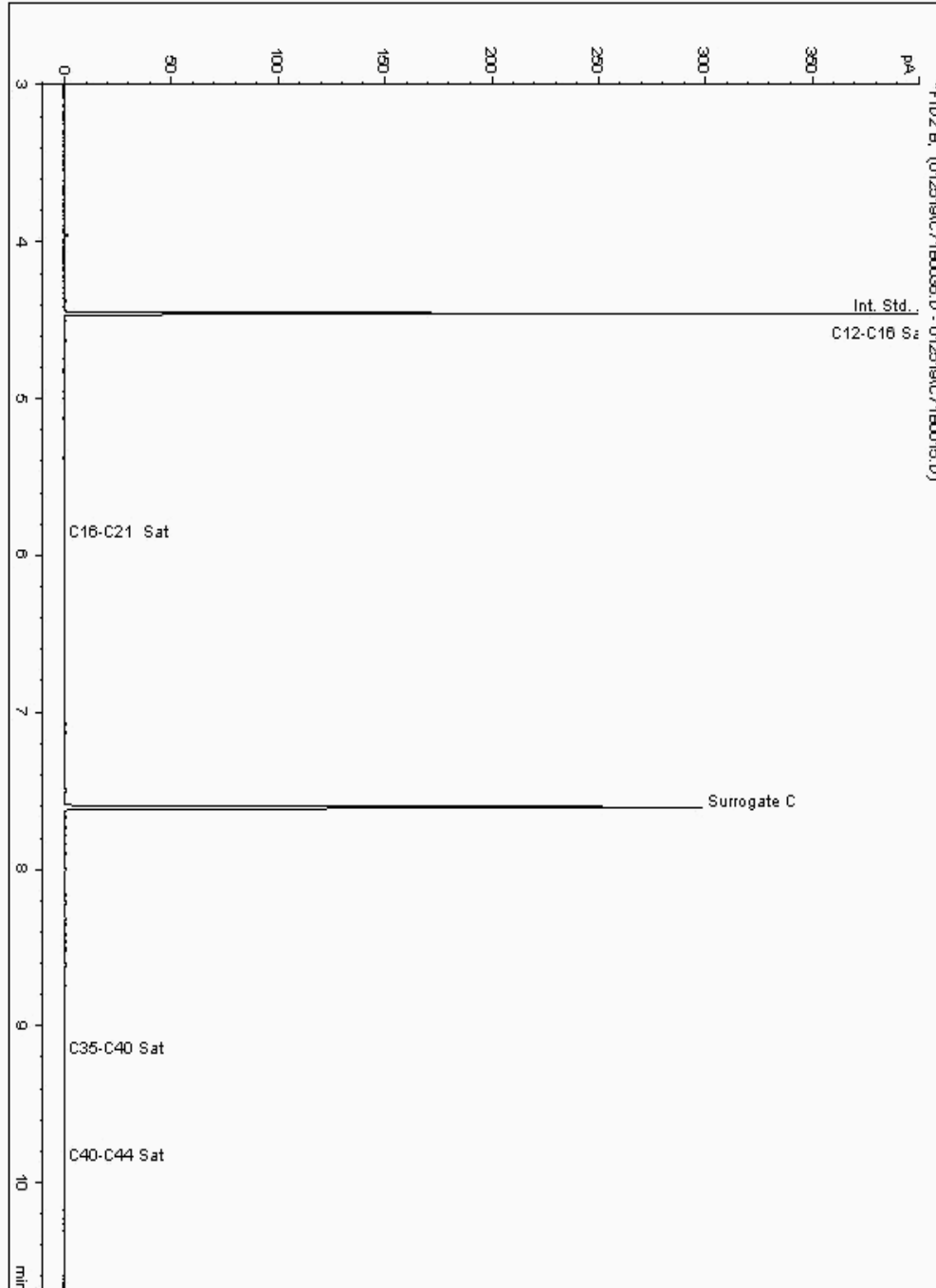
Analysis: EPH CWG (Aliphatic) GC (S)
19178810

Sample No :
Sample ID : BH229

19,178,810 Depth : 7.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017309-
Date Acquired : 26/01/2019 01:11:56 PM
Units : ppb
Dilution: BH229[7.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

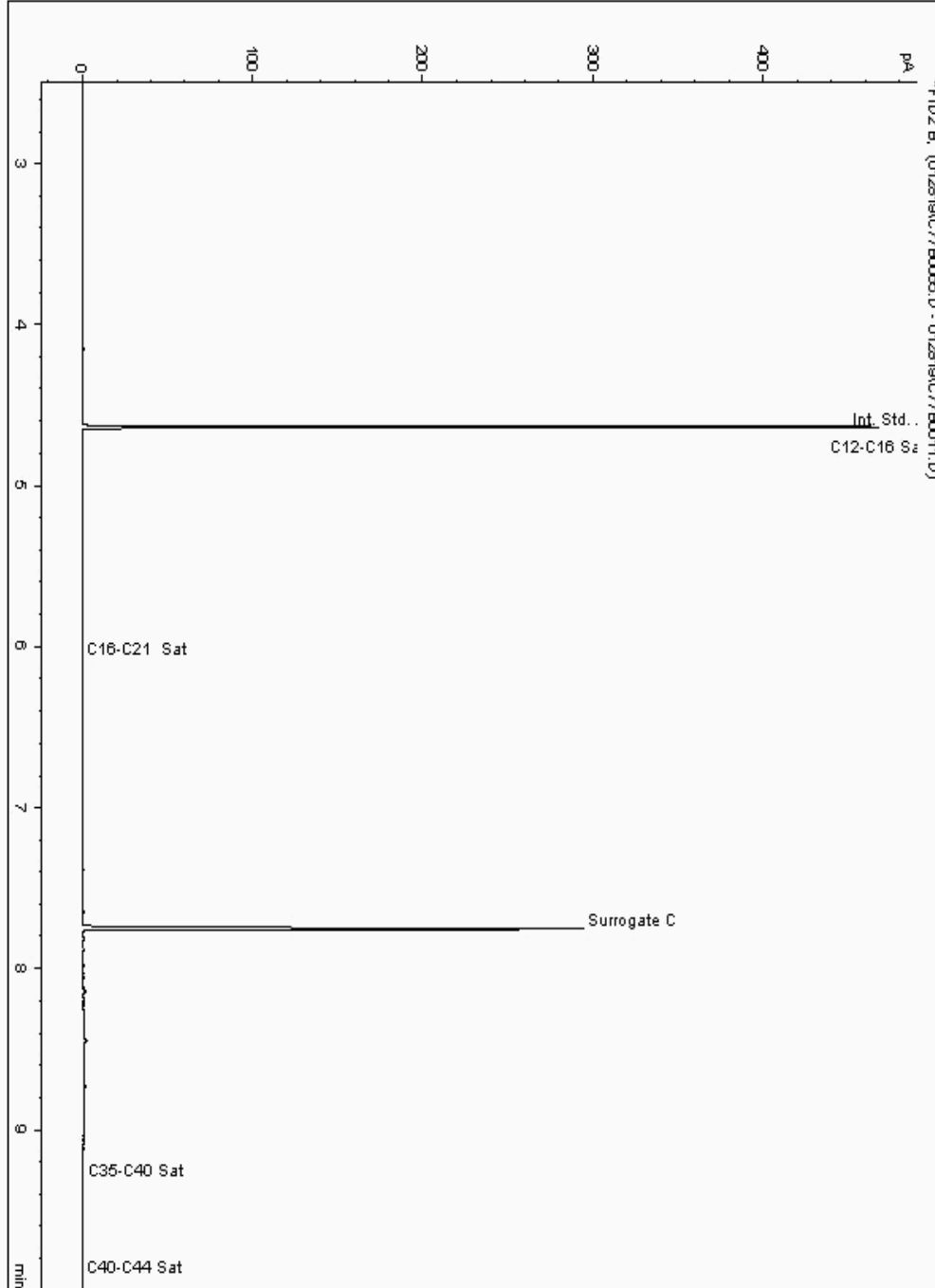
Analysis: EPH CWG (Aliphatic) GC (S)
19178829

Sample No :
Sample ID : BH228

19,178,829 Depth : 7.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016922-
Date Acquired : 1/29/2019 10:30:13 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

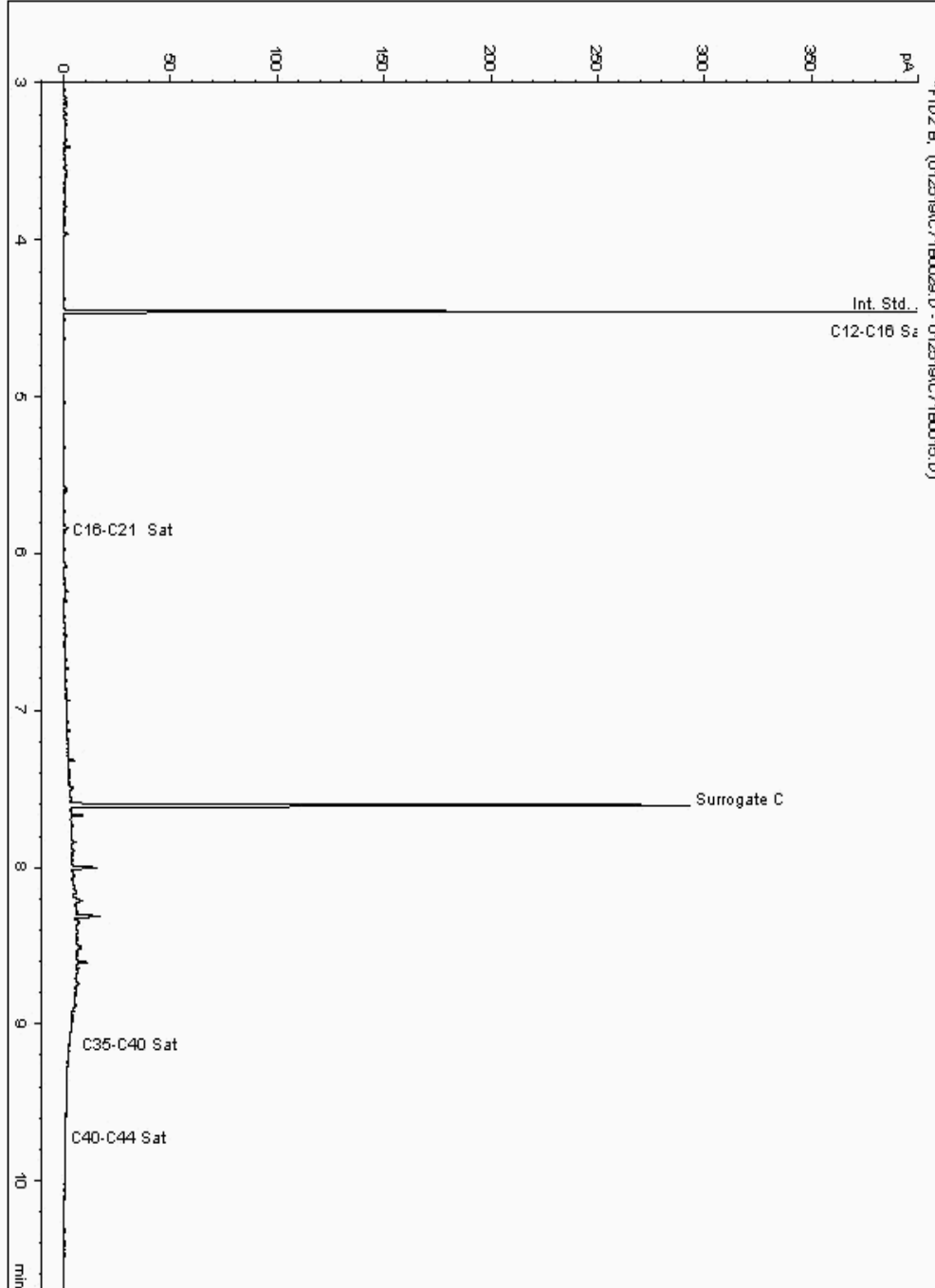
Analysis: EPH CWG (Aliphatic) GC (S)
19178866

Sample No :
Sample ID : BH229

19,178,866Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017232-
Date Acquired : 25/01/2019 23:05:35 PM
Units : ppb
Dilution: BH229[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

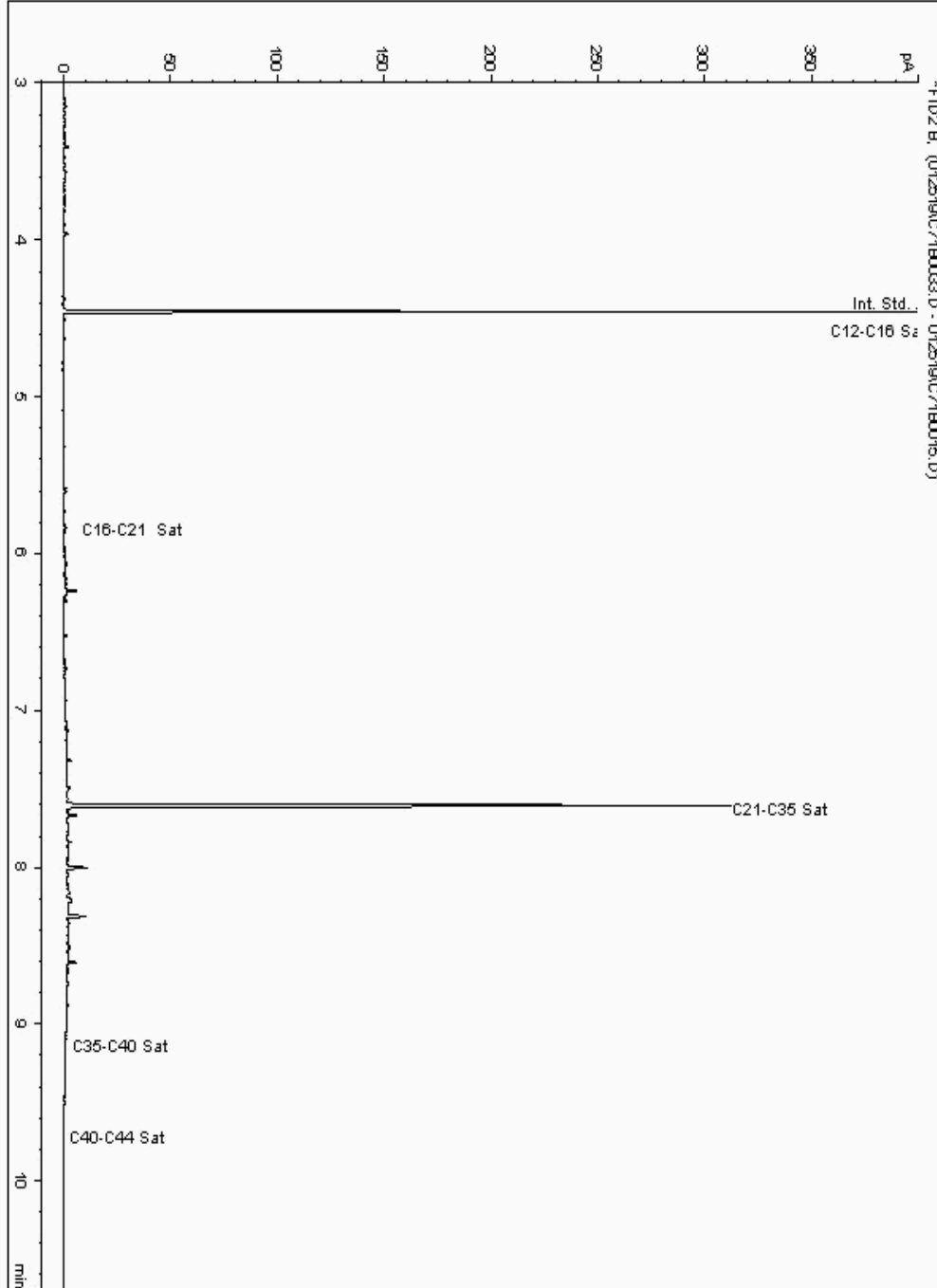
Analysis: EPH CWG (Aliphatic) GC (S)
19178921

Sample No :
Sample ID : BH229

19,178,921 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017287-
Date Acquired : 26/01/2019 00:18:47 PM
Units : ppb
Dilution: BH229[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

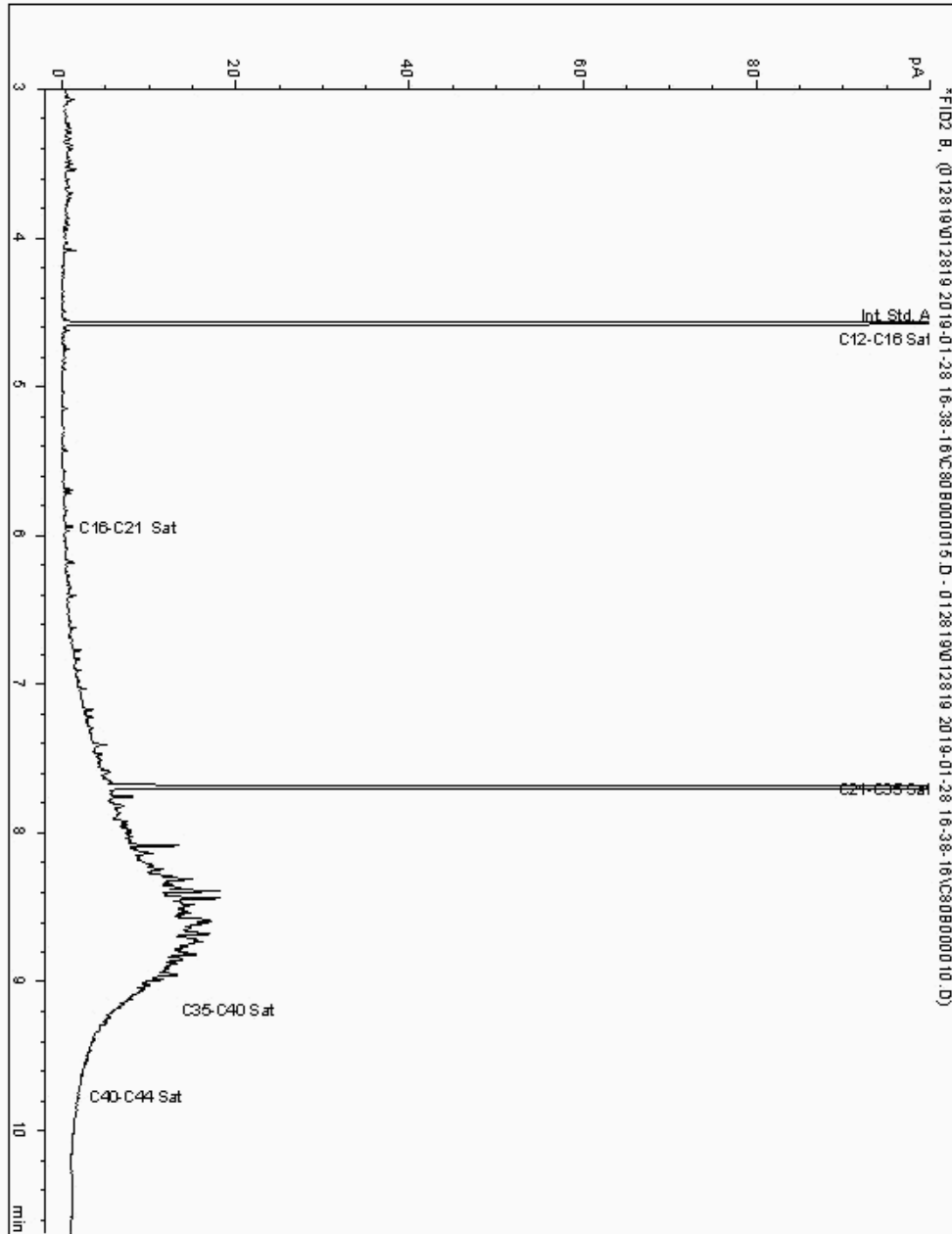
Analysis: EPH CWG (Aliphatic) GC (S)
19178934

Sample No :
Sample ID : BH229

19,178,934 Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017166-
Date Acquired : 28/01/19 21:19:47
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

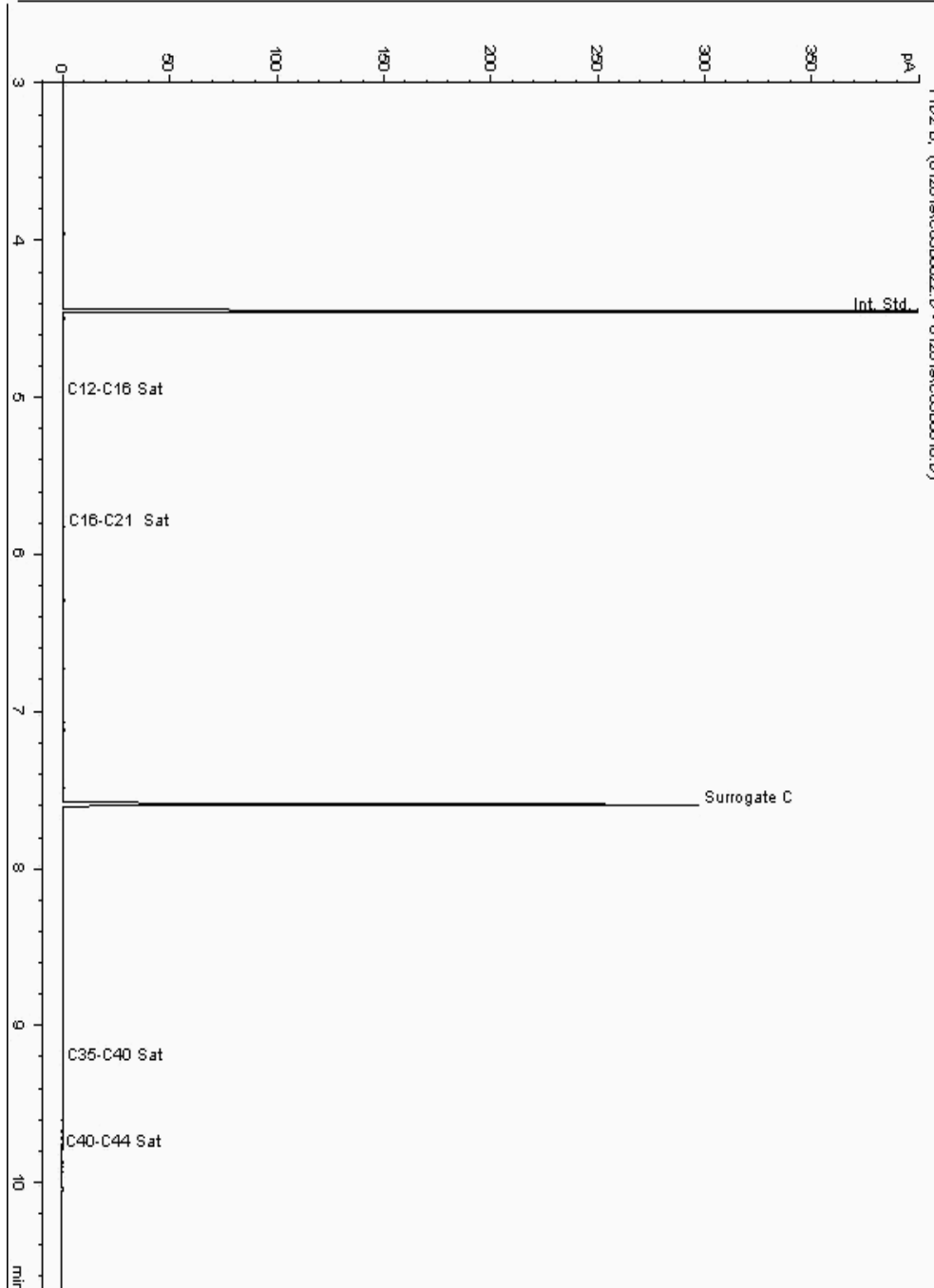
Analysis: EPH CWG (Aliphatic) GC (S)
19178976

Sample No :
Sample ID : BH226

19,178,976 Depth : 8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016267-
Date Acquired : 26/01/2019 16:48:31 PM
Units : ppb
Dilution: BH226[8.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

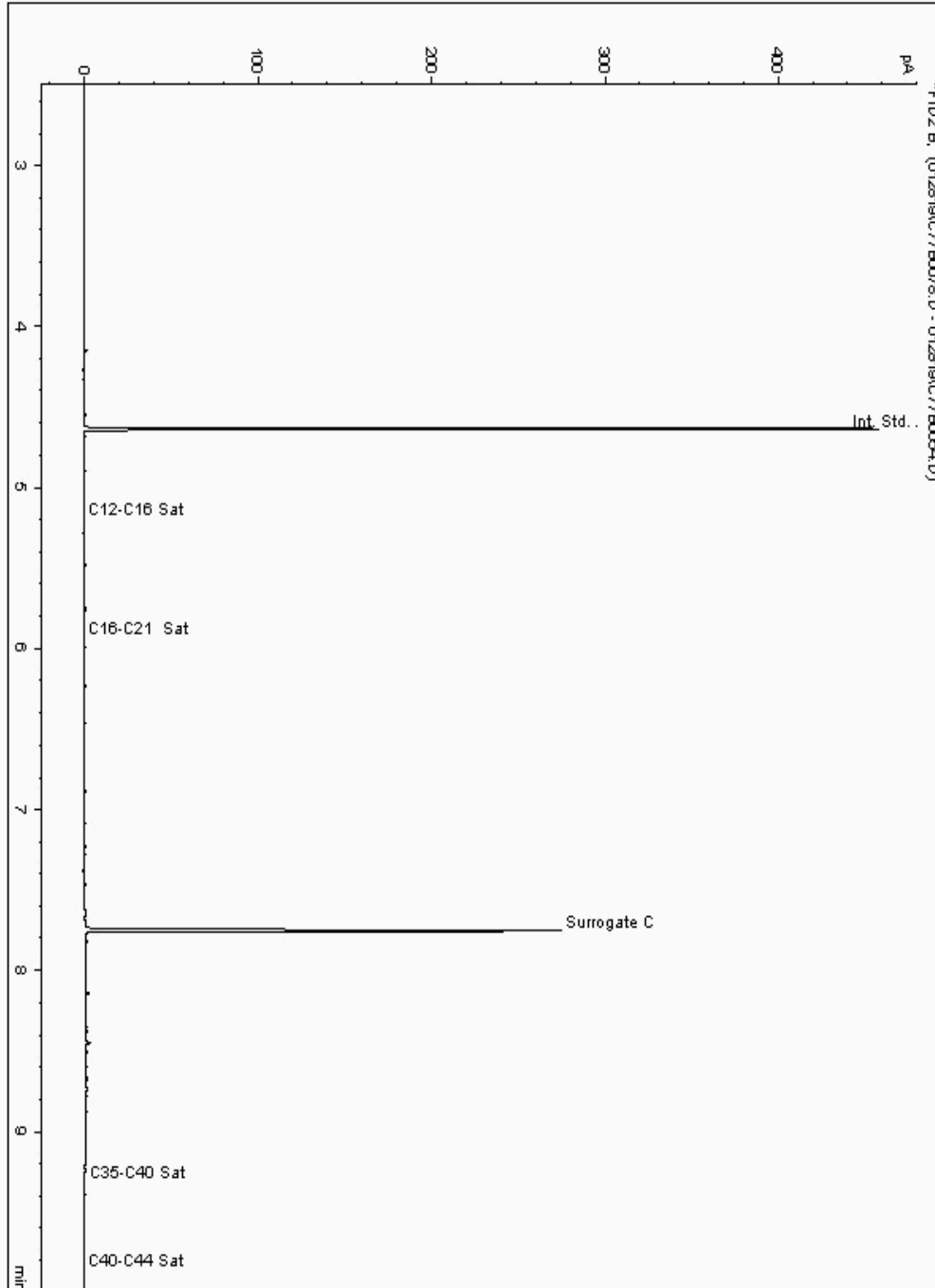
Analysis: EPH CWG (Aliphatic) GC (S)
19178986

Sample No :
Sample ID : BH228

19,178,986Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016750-
Date Acquired : 1/29/2019 2:18:45 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

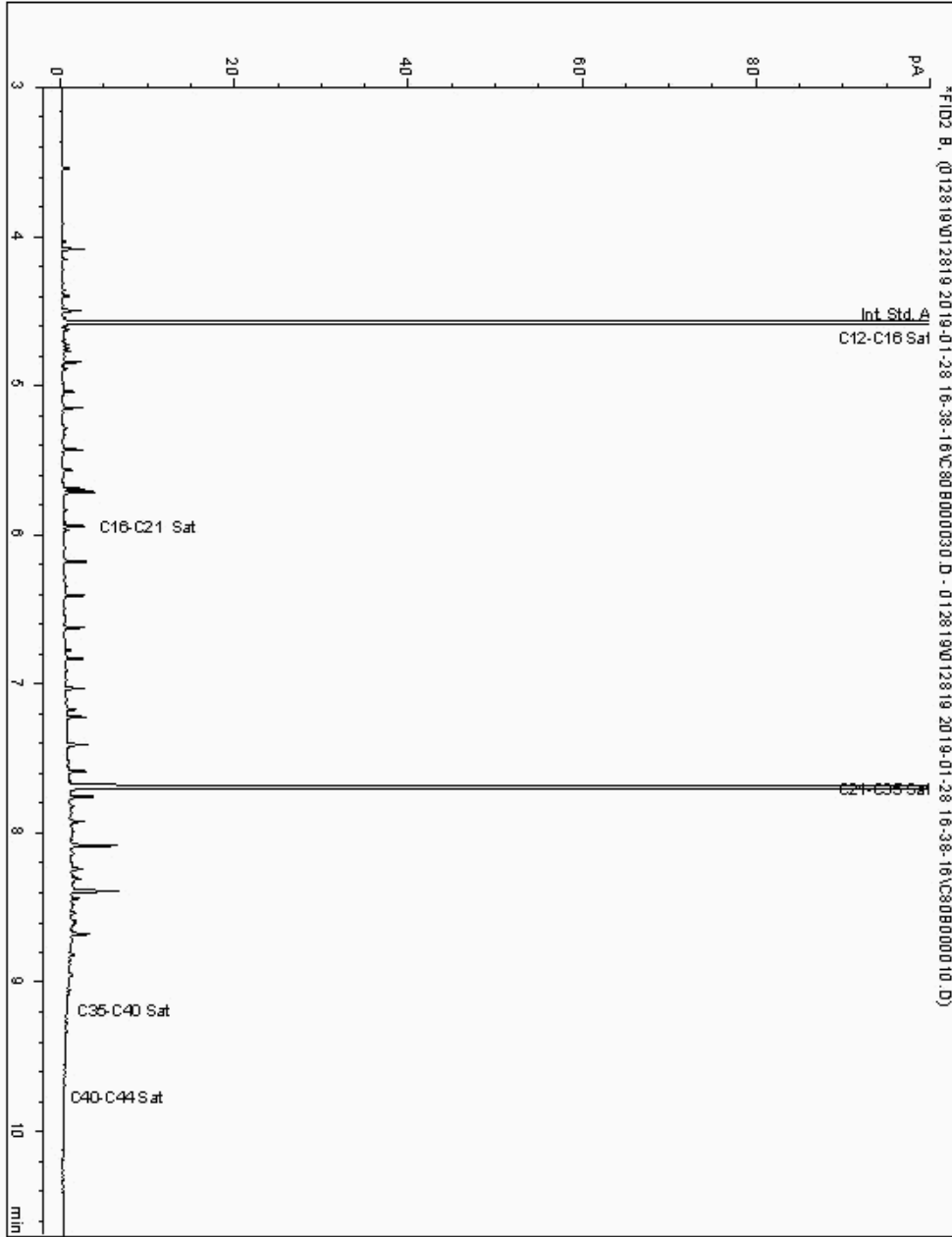
Analysis: EPH CWG (Aliphatic) GC (S)
19179034

Sample No :
Sample ID : BH229

19,179,034Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017110-
Date Acquired : 29/01/19 01:49:17
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

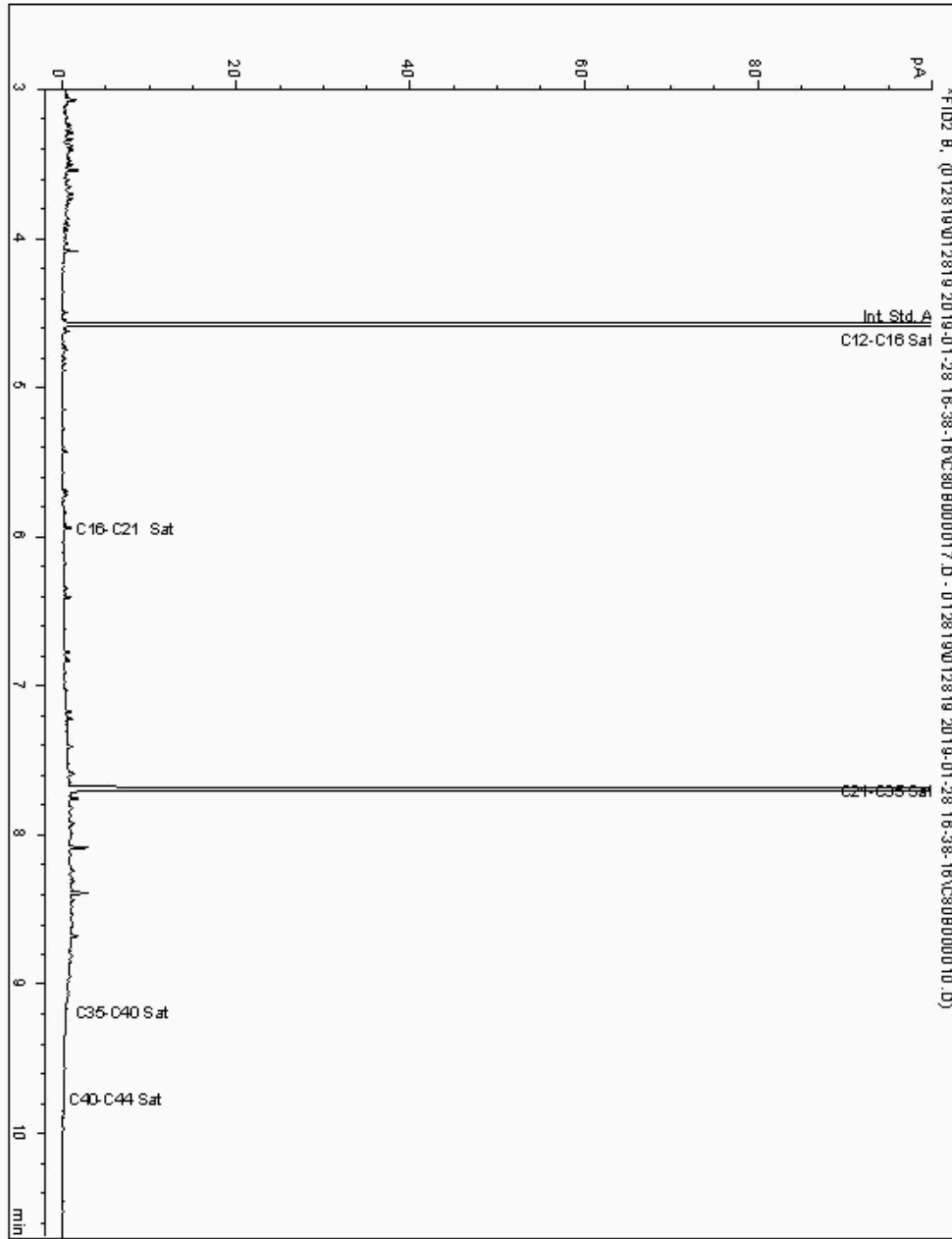
Analysis: EPH CWG (Aliphatic) GC (S)
19179096

Sample No :
Sample ID : BH226

19,179,096Depth :2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016169-
Date Acquired : 28/01/19 21:51:42
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

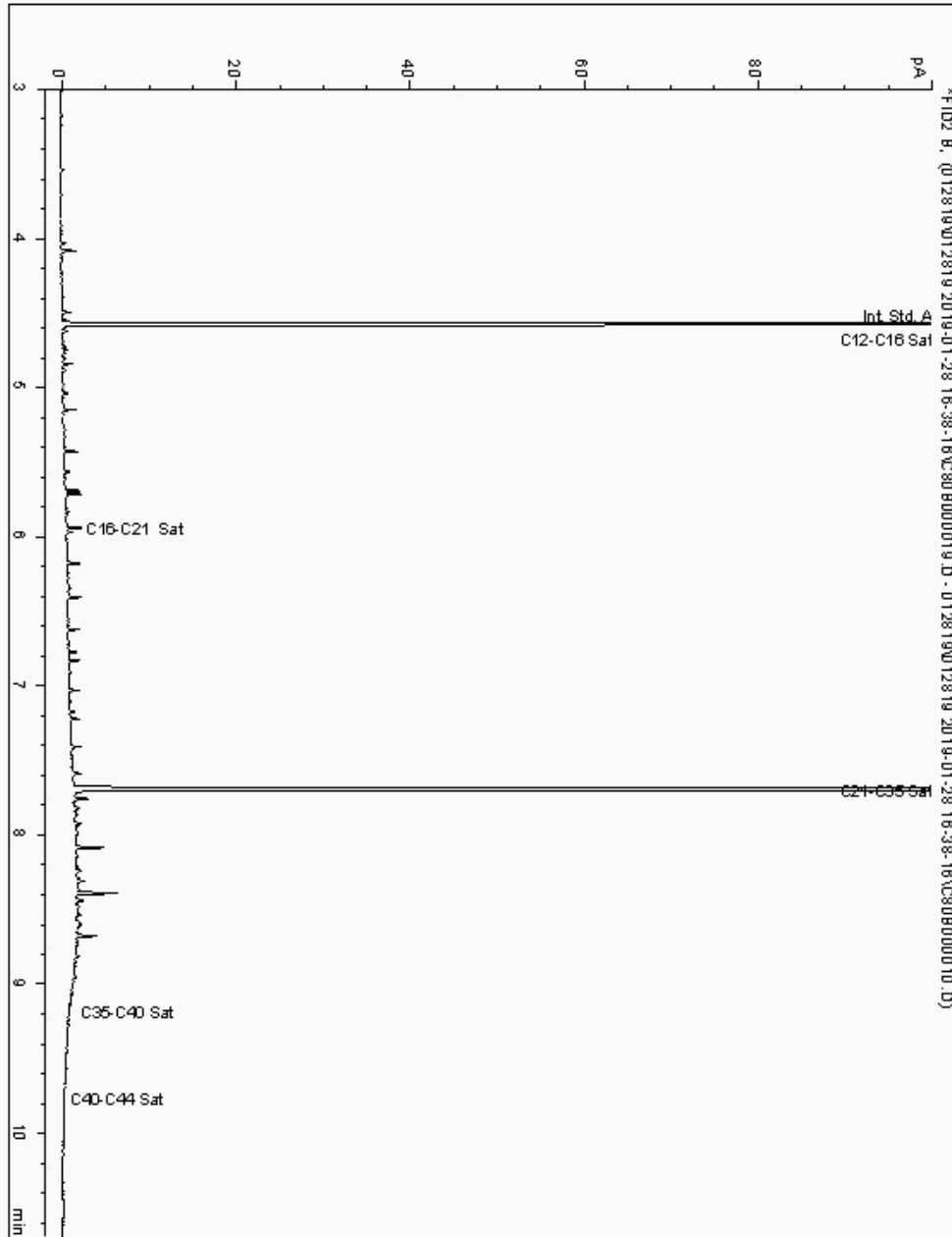
Analysis: EPH CWG (Aliphatic) GC (S)
19179103

Sample No :
Sample ID : BH226

19,179,103Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016087-
Date Acquired : 28/01/19 22:32:01
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

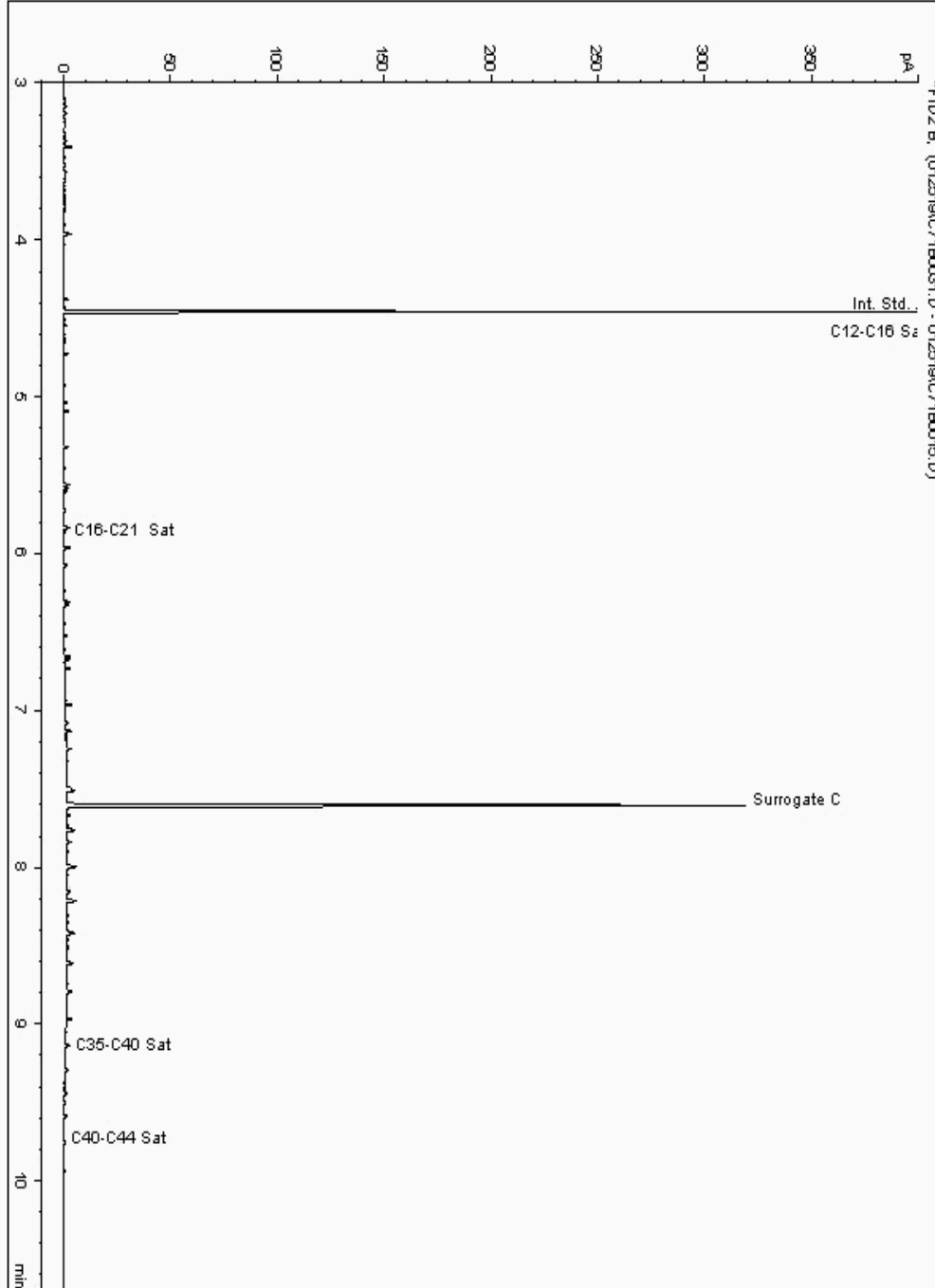
Analysis: EPH CWG (Aliphatic) GC (S)
19179121

Sample No :
Sample ID : BH226

19,179,121 Depth : 15.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016371-
Date Acquired : 25/01/2019 23:37:57 PM
Units : ppb
Dilution: BH226[15.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

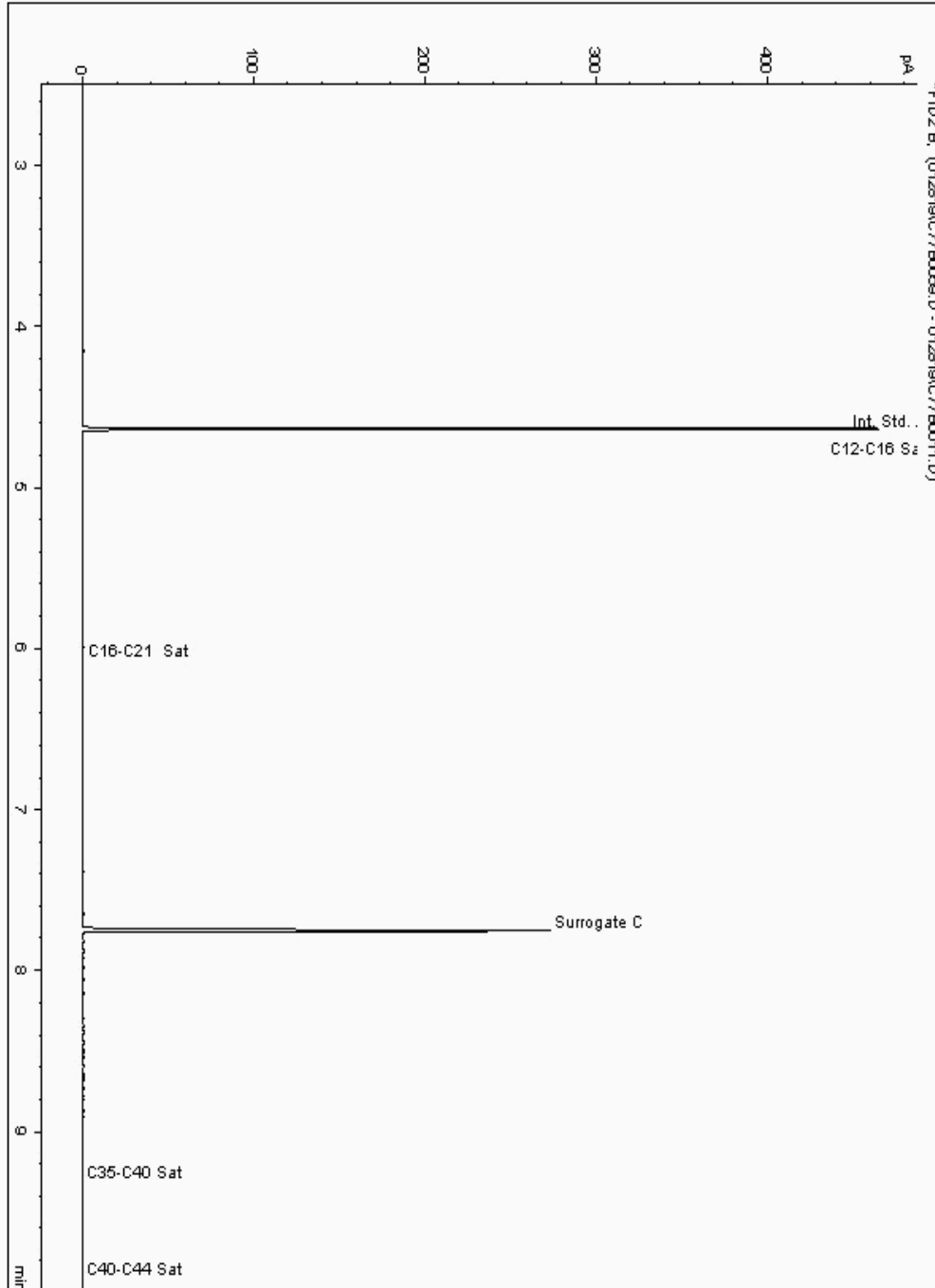
Analysis: EPH CWG (Aliphatic) GC (S)
19179187

Sample No :
Sample ID : BH227

19,179,187Depth :8.00 - 9.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016614-
Date Acquired : 1/29/2019 8:30:54 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

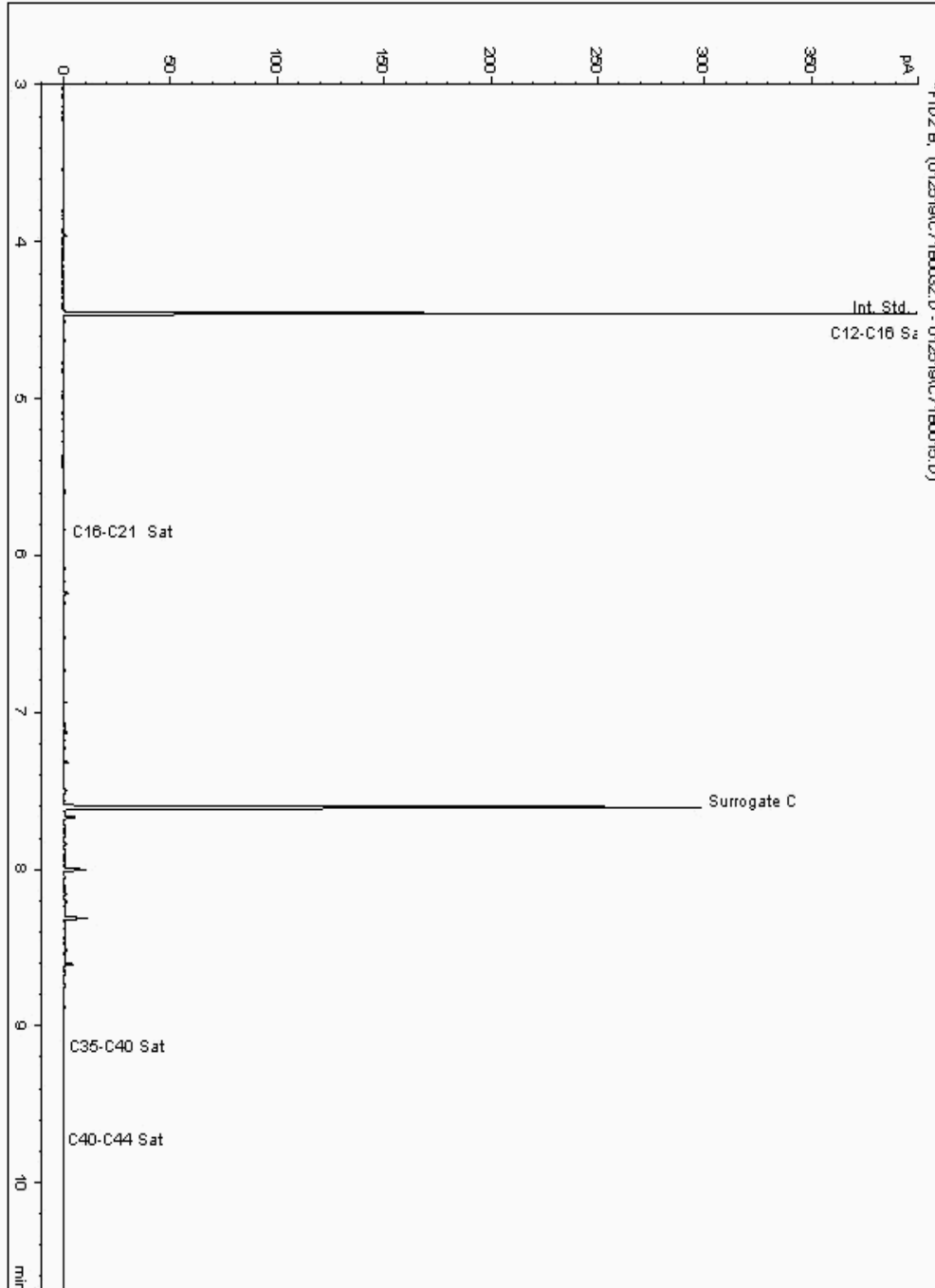
Analysis: EPH CWG (Aliphatic) GC (S)
19179216

Sample No :
Sample ID : BH227

19,179,216 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016460-
Date Acquired : 25/01/2019 23:58:30 PM
Units : ppb
Dilution: BH227[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

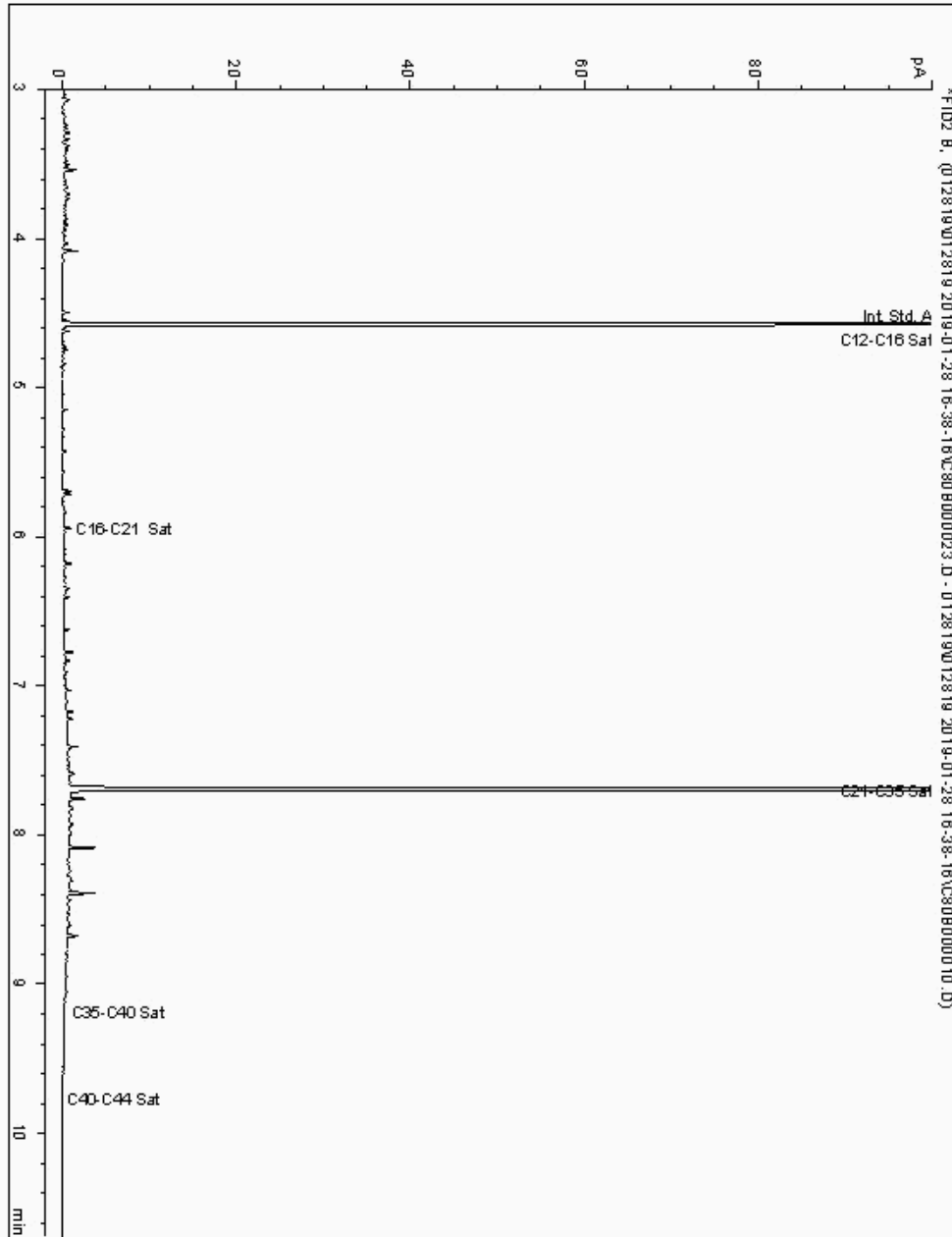
Analysis: EPH CWG (Aliphatic) GC (S)
19179247

Sample No :
Sample ID : BH226

19,179,247Depth :4.30 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016215-
Date Acquired : 28/01/19 23:44:41
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

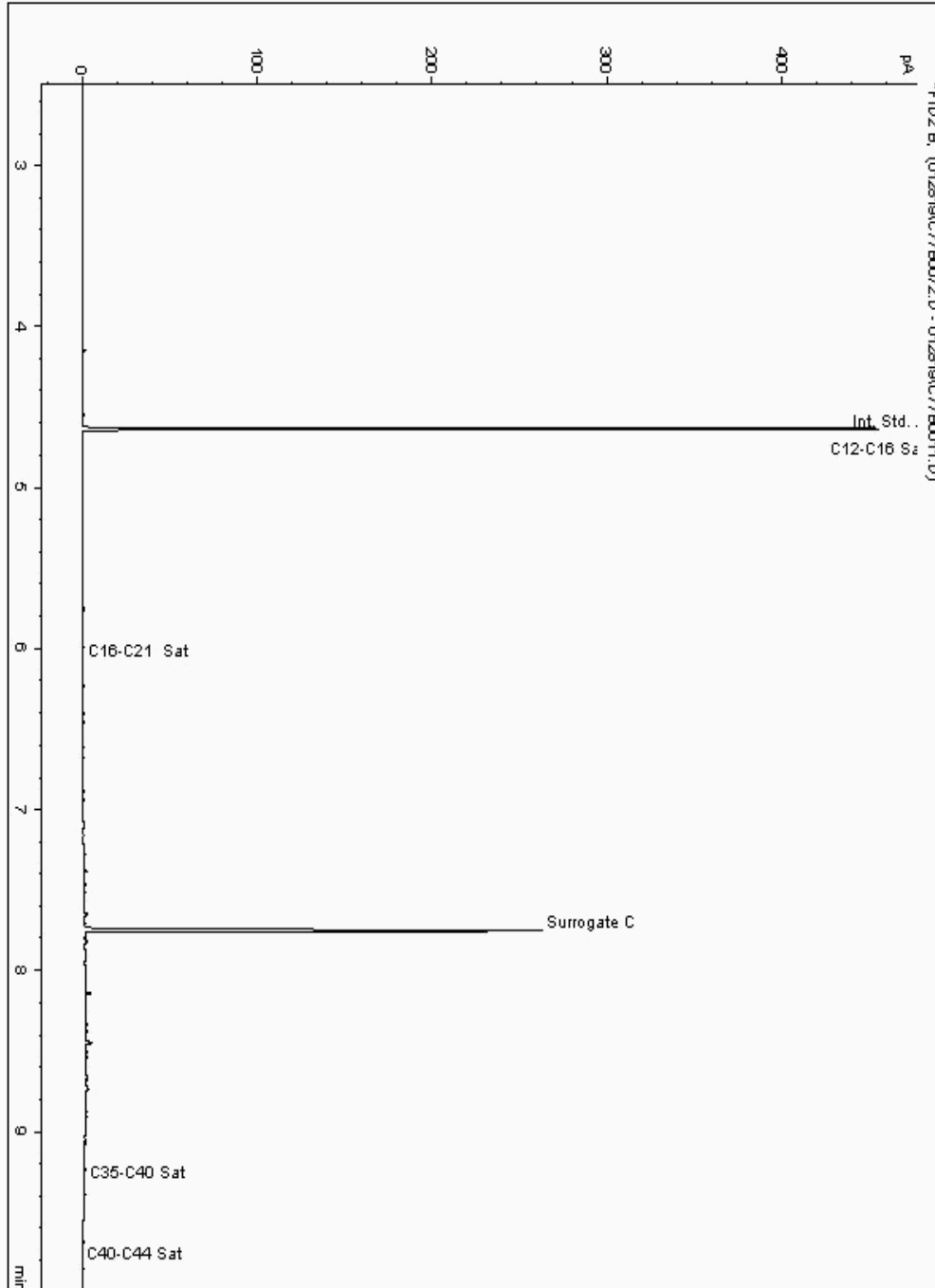
Analysis: EPH CWG (Aliphatic) GC (S)
19179263

Sample No :
Sample ID : BH227

19,179,263Depth :0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016431-
Date Acquired : 1/29/2019 12:34:12 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

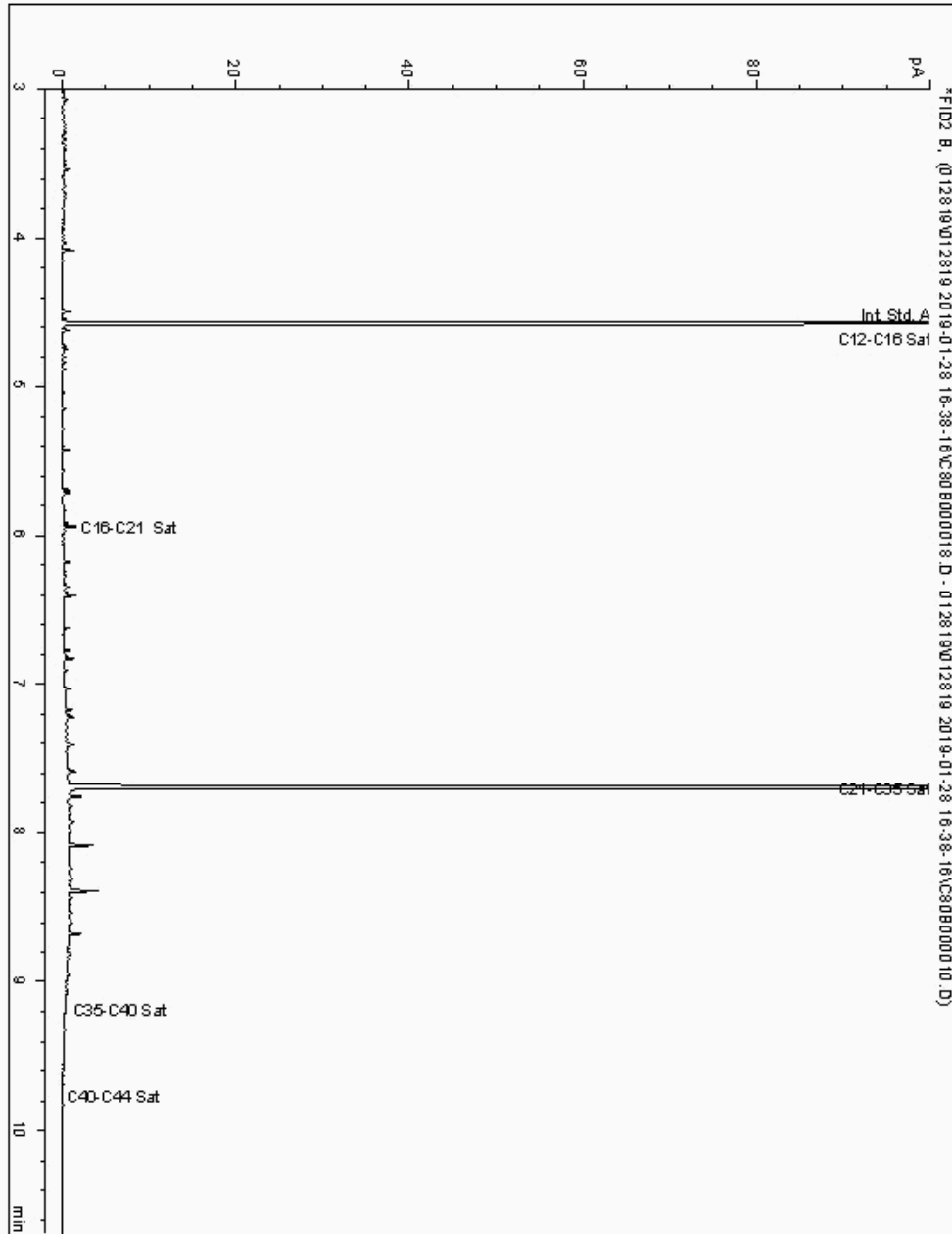
Analysis: EPH CWG (Aliphatic) GC (S)
19179271

Sample No :
Sample ID : BH226

19,179,271 Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016147-
Date Acquired : 28/01/19 22:11:58
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

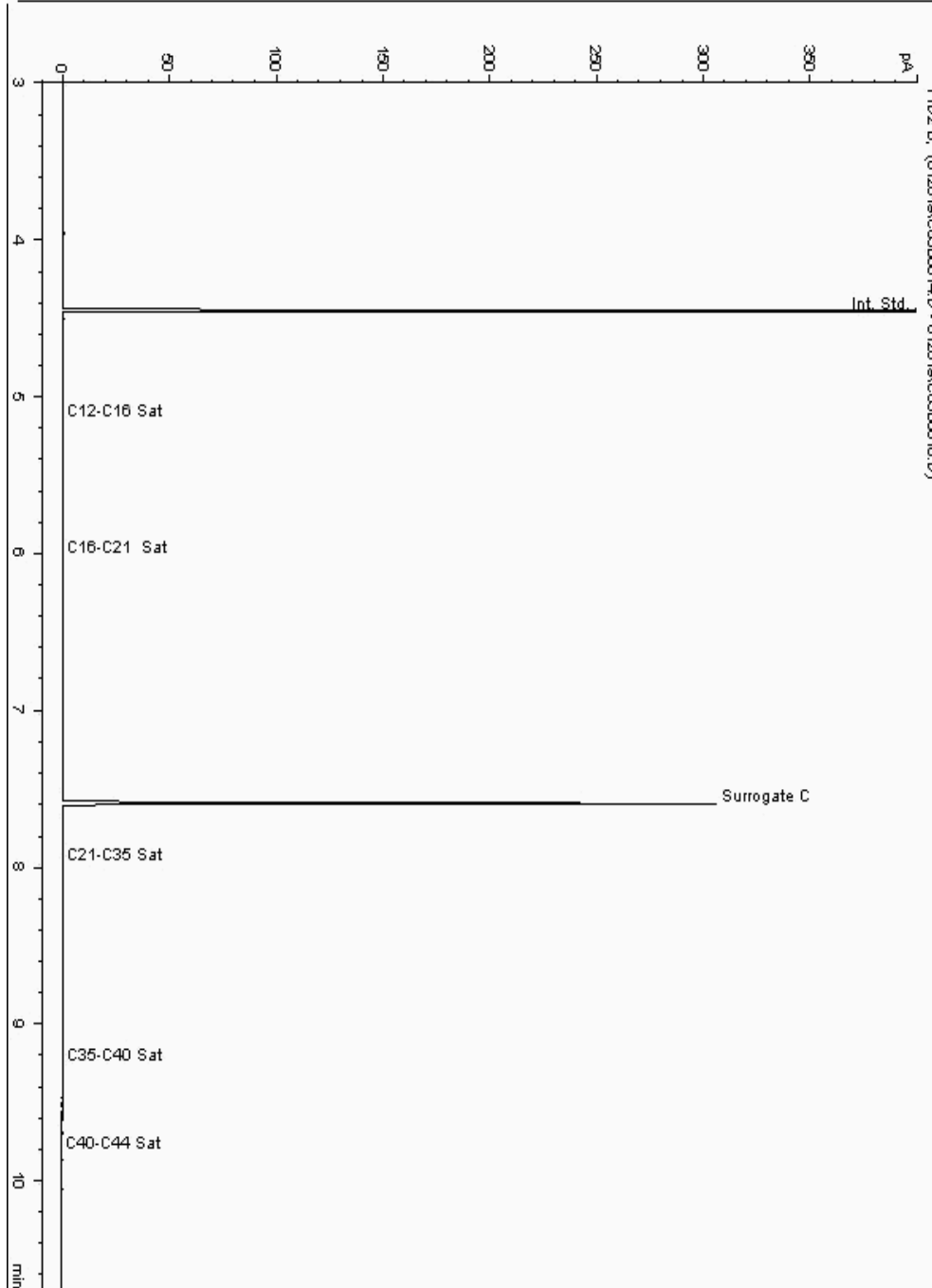
Analysis: EPH CWG (Aliphatic) GC (S)
19179283

Sample No :
Sample ID : BH227

19,179,283 Depth : 9.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016641-
Date Acquired : 26/01/2019 14:11:51 PM
Units : ppb
Dilution: BH227[9.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

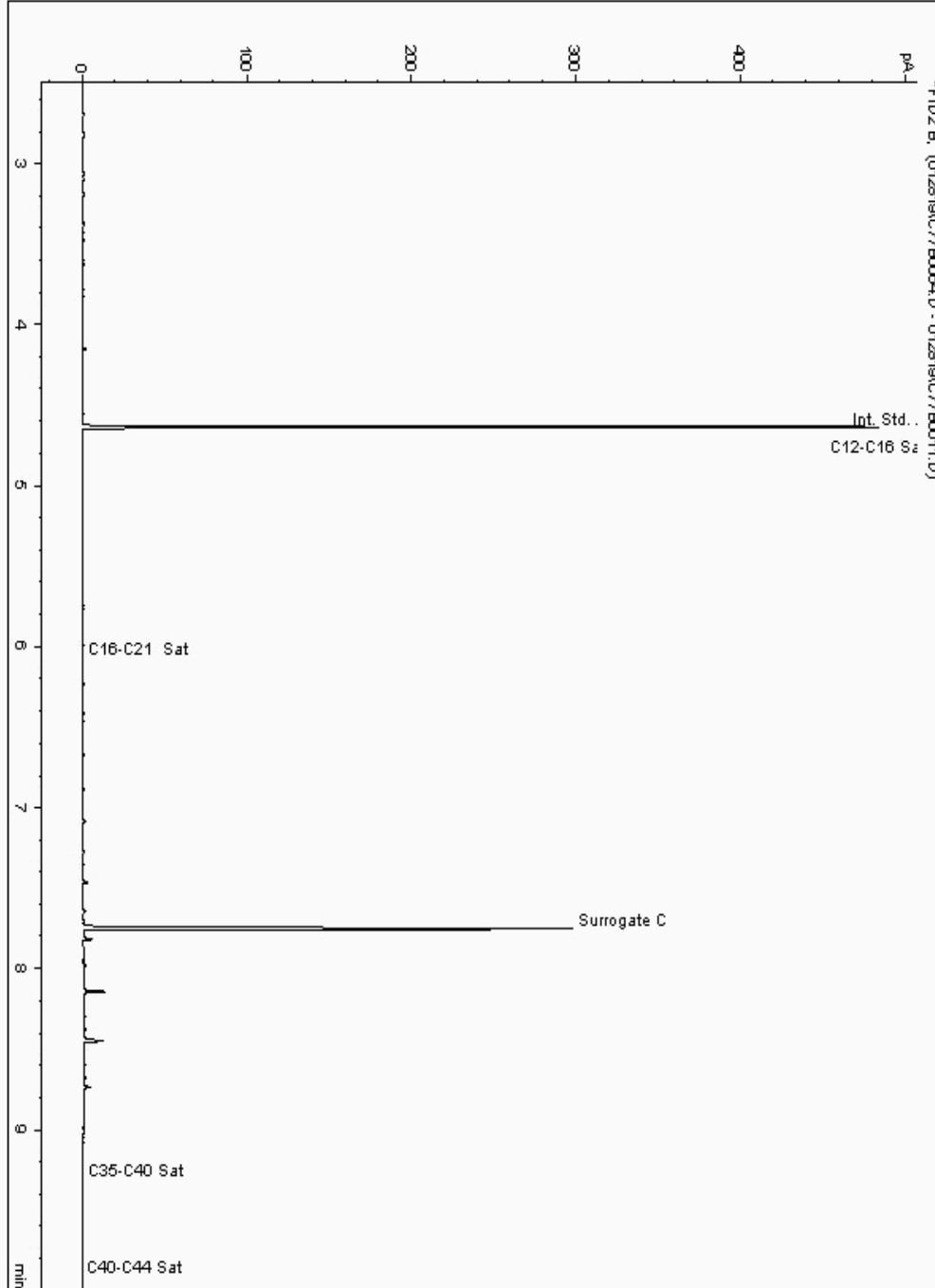
Analysis: EPH CWG (Aliphatic) GC (S)
19179341

Sample No :
Sample ID : BH226

19,179,341 Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016192-
Date Acquired : 1/29/2019 10:09:59 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

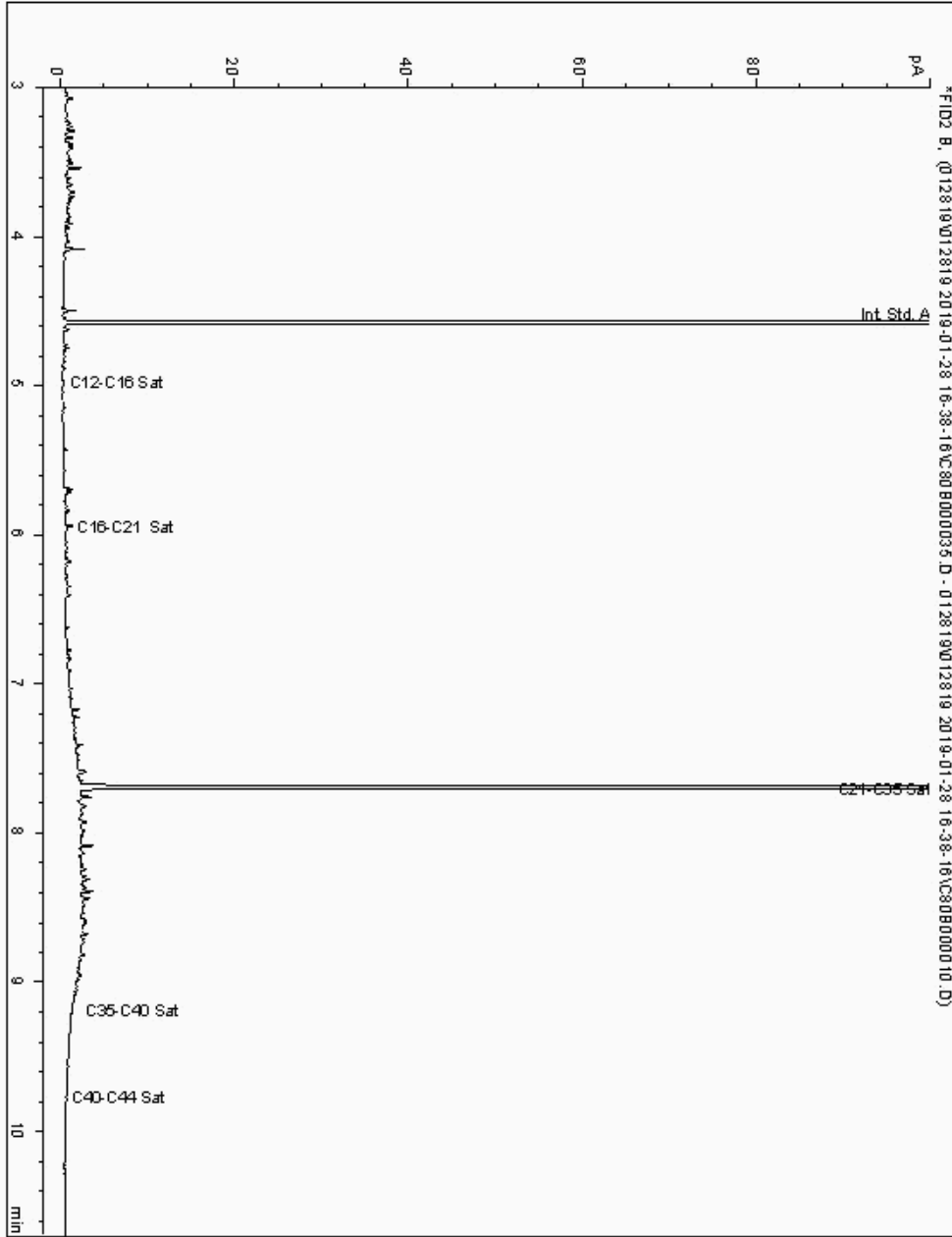
Analysis: EPH CWG (Aliphatic) GC (S)
19179358

Sample No :
Sample ID : BH227

19,179,358 Depth : 6.00 - 7.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016591-
Date Acquired : 29/01/19 03:14:14
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

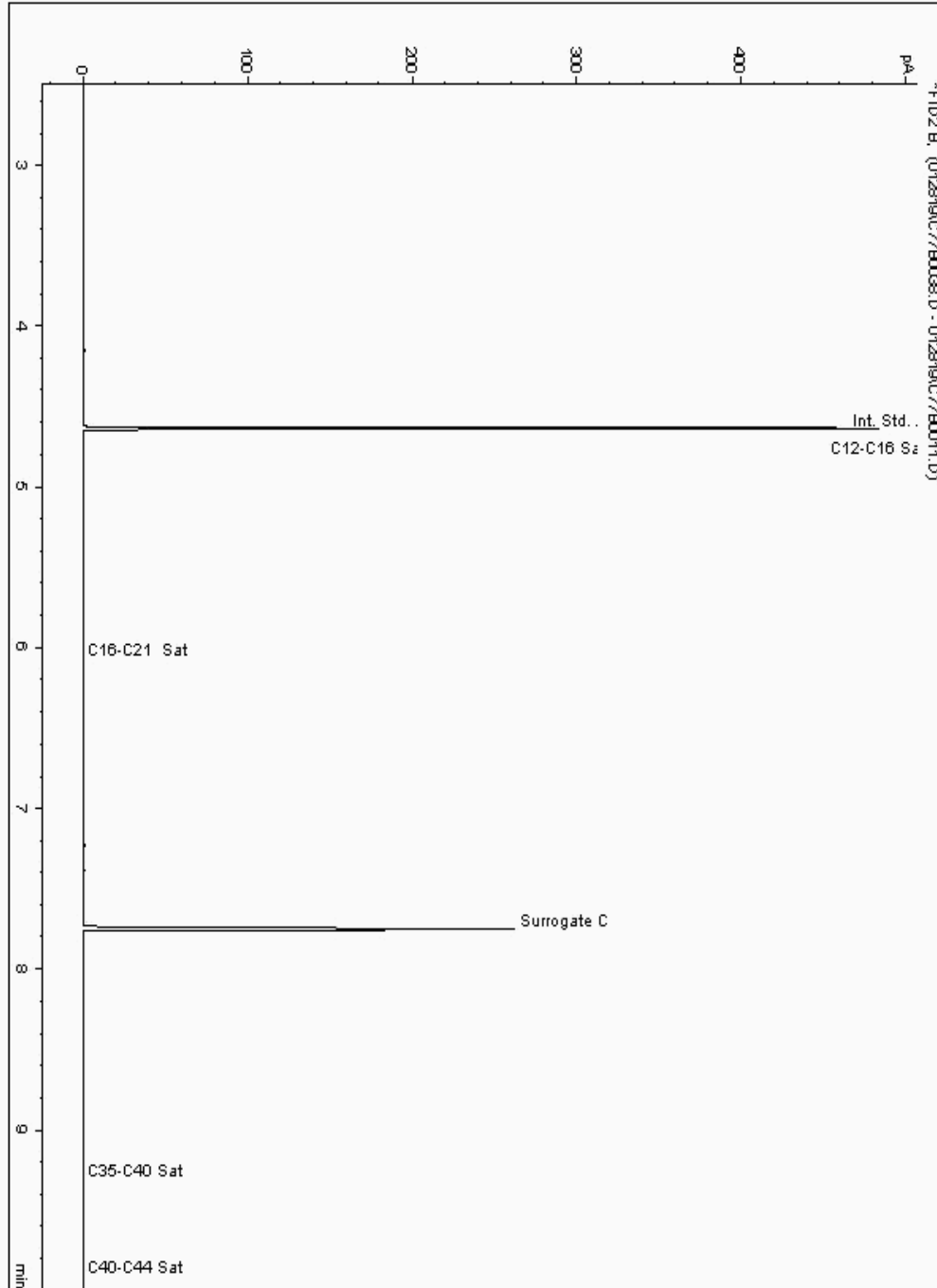
Analysis: EPH CWG (Aliphatic) GC (S)
19179437

Sample No :
Sample ID : BH229

19,179,437 Depth : 11.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017332-
Date Acquired : 1/29/2019 2:26:15 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

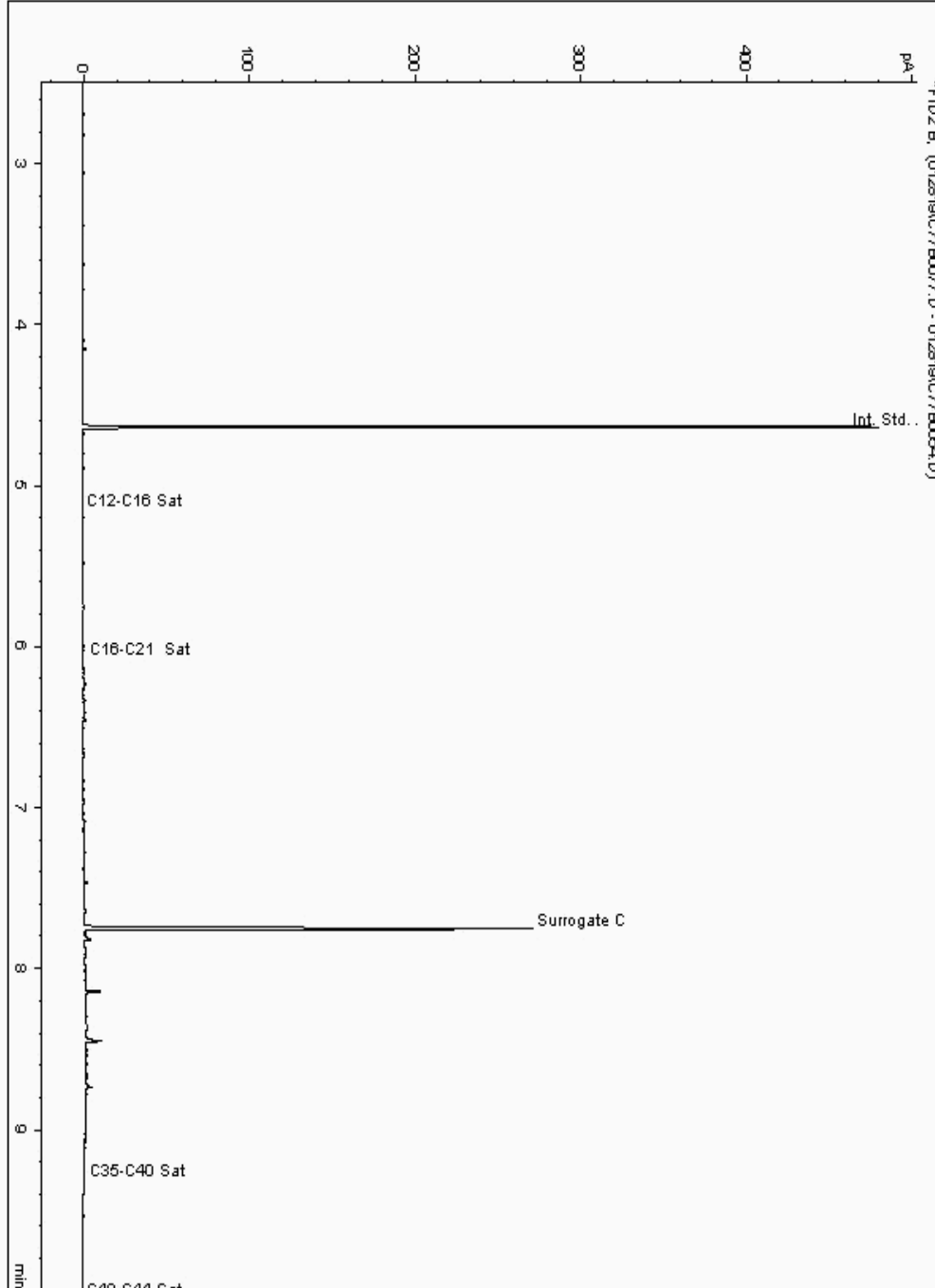
Analysis: EPH CWG (Aliphatic) GC (S)
19179558

Sample No :
Sample ID : BH227

19,179,558 Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016545-
Date Acquired : 1/29/2019 1:58:25 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

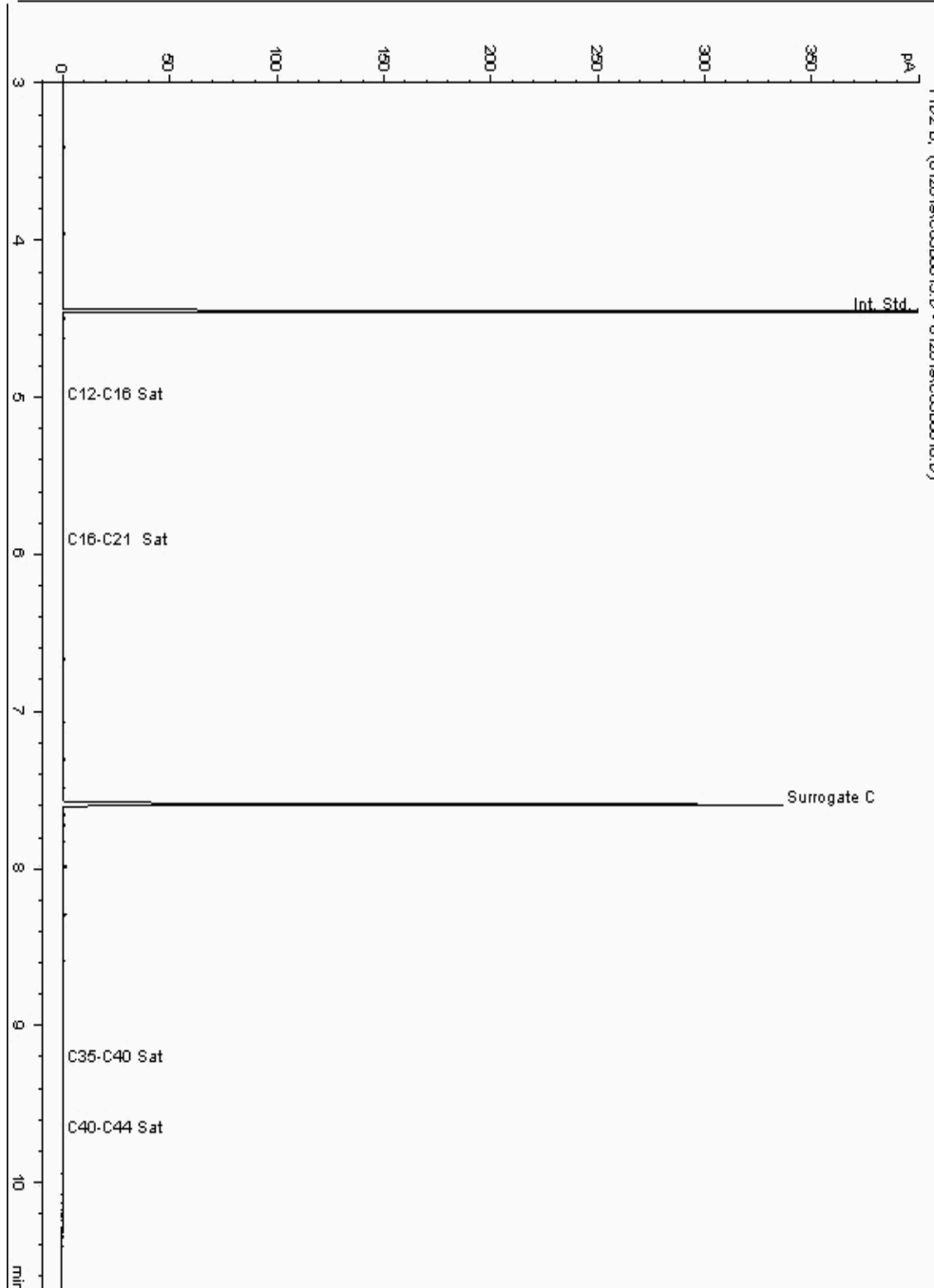
Analysis: EPH CWG (Aliphatic) GC (S)
19179603

Sample No :
Sample ID : BH226

19,179,603 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016238-
Date Acquired : 26/01/2019 13:50:37 PM
Units : ppb
Dilution: BH226[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

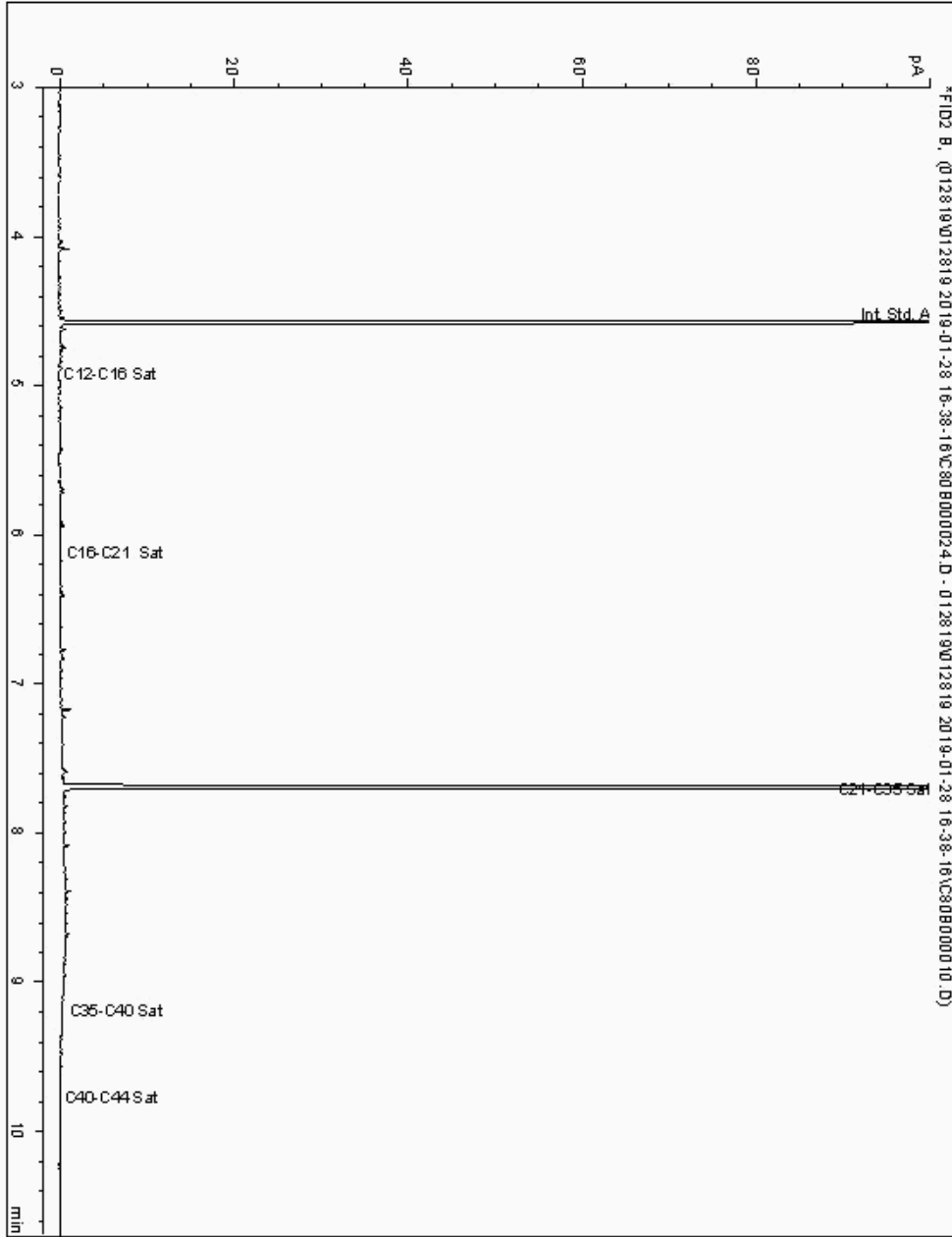
Analysis: EPH CWG (Aliphatic) GC (S)
19179695

Sample No :
Sample ID : BH228

19,179,695 Depth : 8.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016959-
Date Acquired : 29/01/19 00:04:46
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

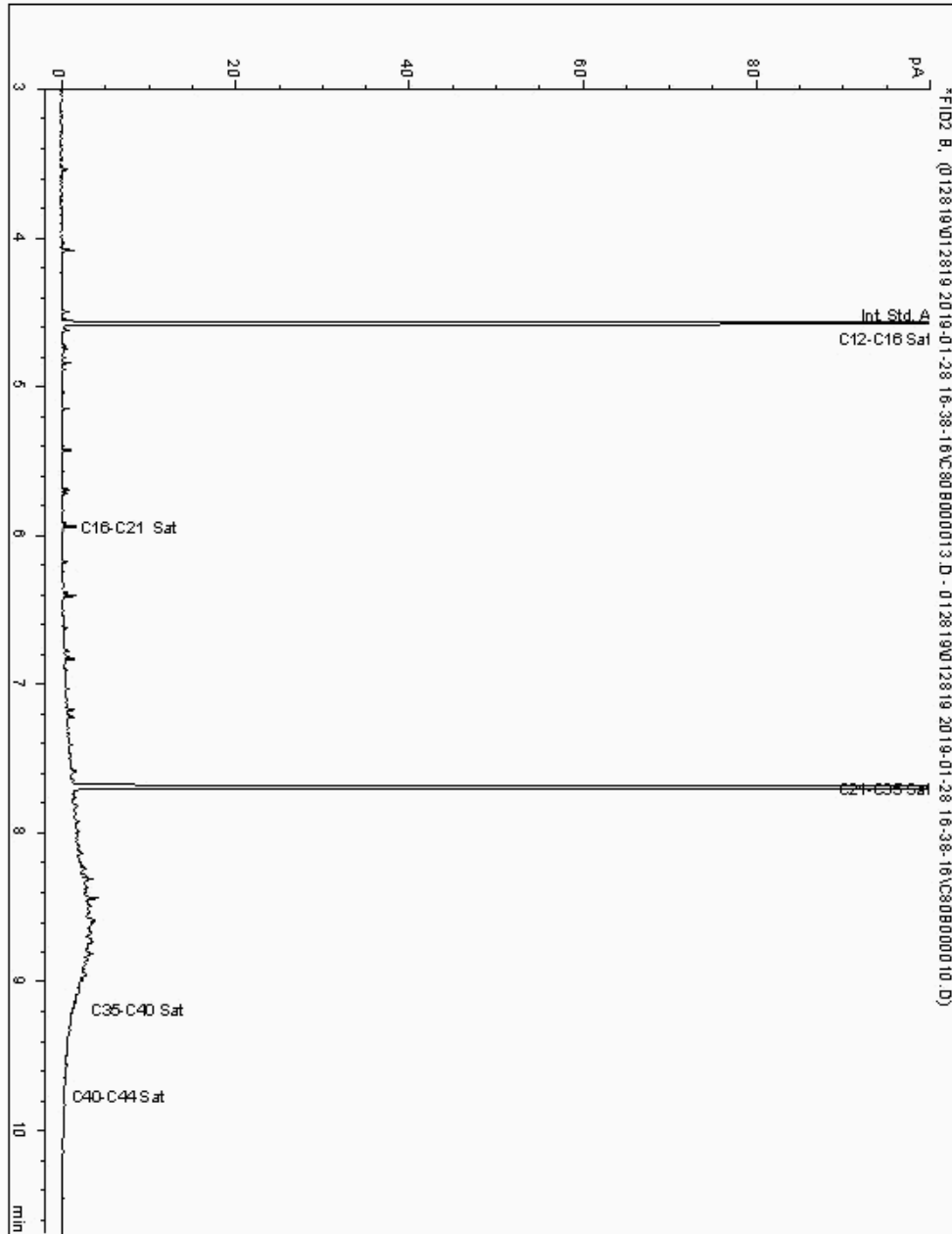
Analysis: EPH CWG (Aliphatic) GC (S)
19179739

Sample No :
Sample ID : BH228

19,179,739 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017078-
Date Acquired : 28/01/19 20:39:11
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

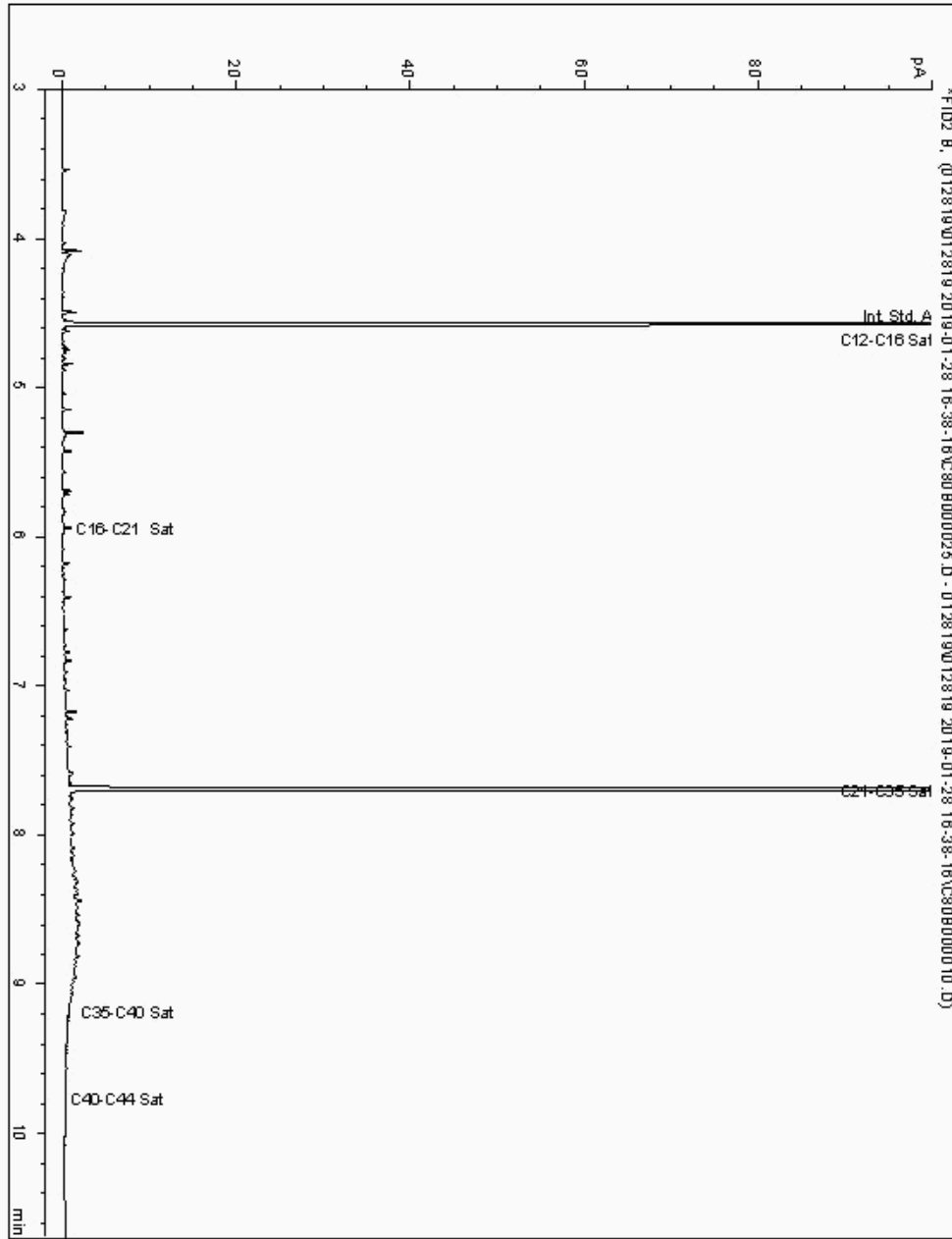
Analysis: EPH CWG (Aliphatic) GC (S)
19179786

Sample No :
Sample ID : BH228

19,179,786Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017047-
Date Acquired : 29/01/19 00:25:07
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

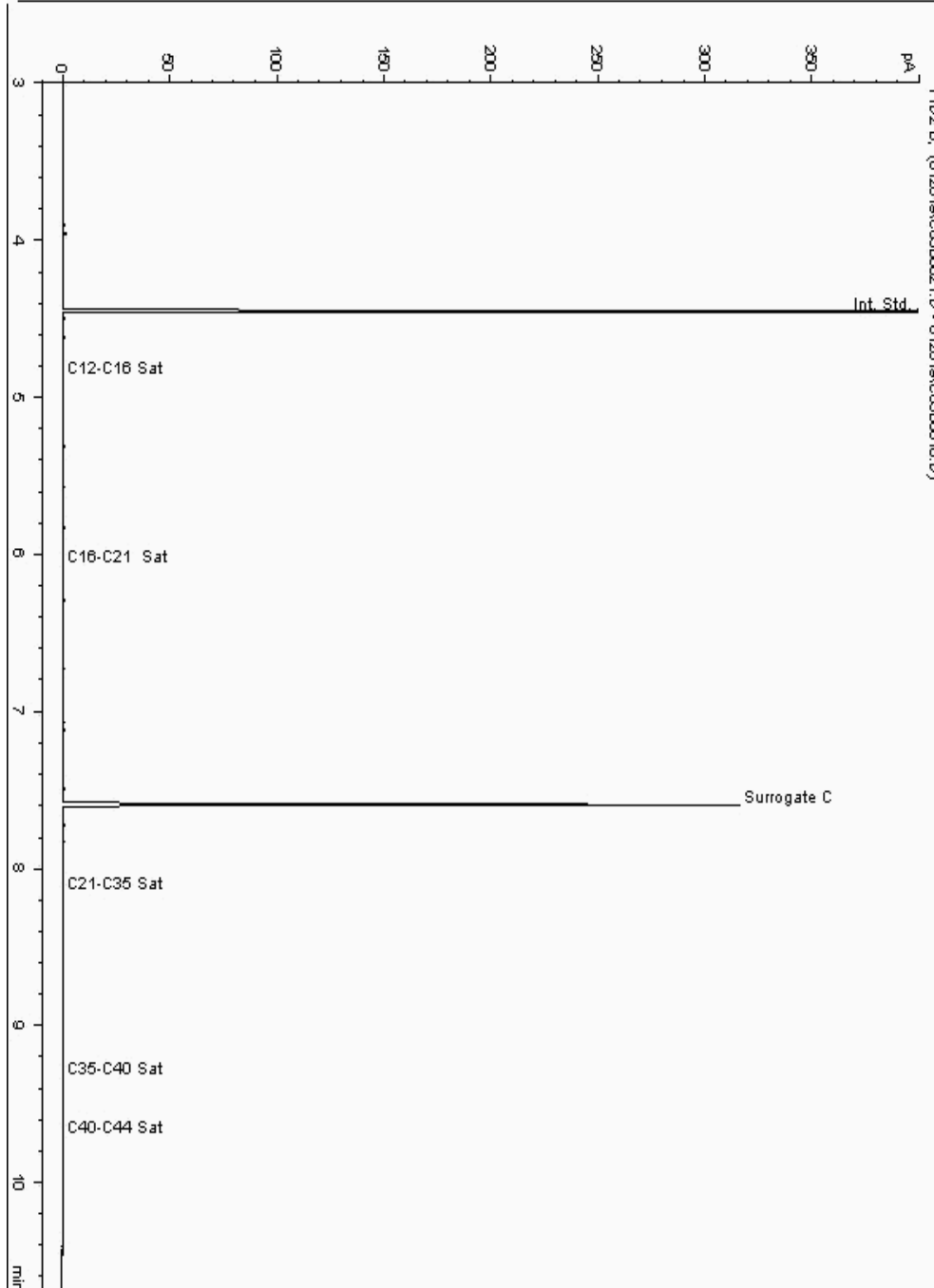
Analysis: EPH CWG (Aliphatic) GC (S)
19179969

Sample No :
Sample ID : BH229

19,179,969 Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017355-
Date Acquired : 26/01/2019 16:27:58 PM
Units : ppb
Dilution: BH229[12.00 - 13.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

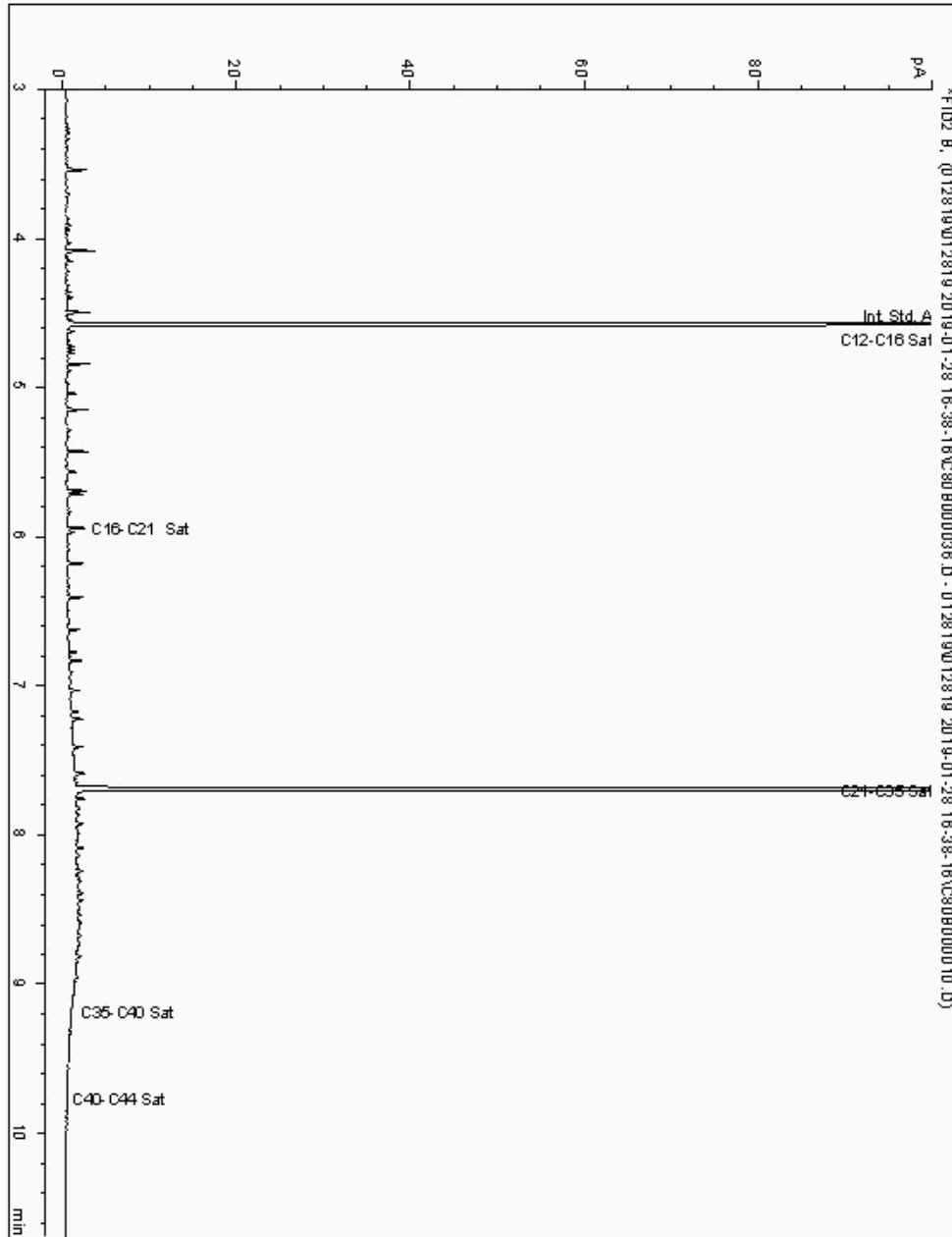
Analysis: EPH CWG (Aliphatic) GC (S)
19180029

Sample No :
Sample ID : BH229

19,180,029 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017402-
Date Acquired : 29/01/19 03:34:30
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

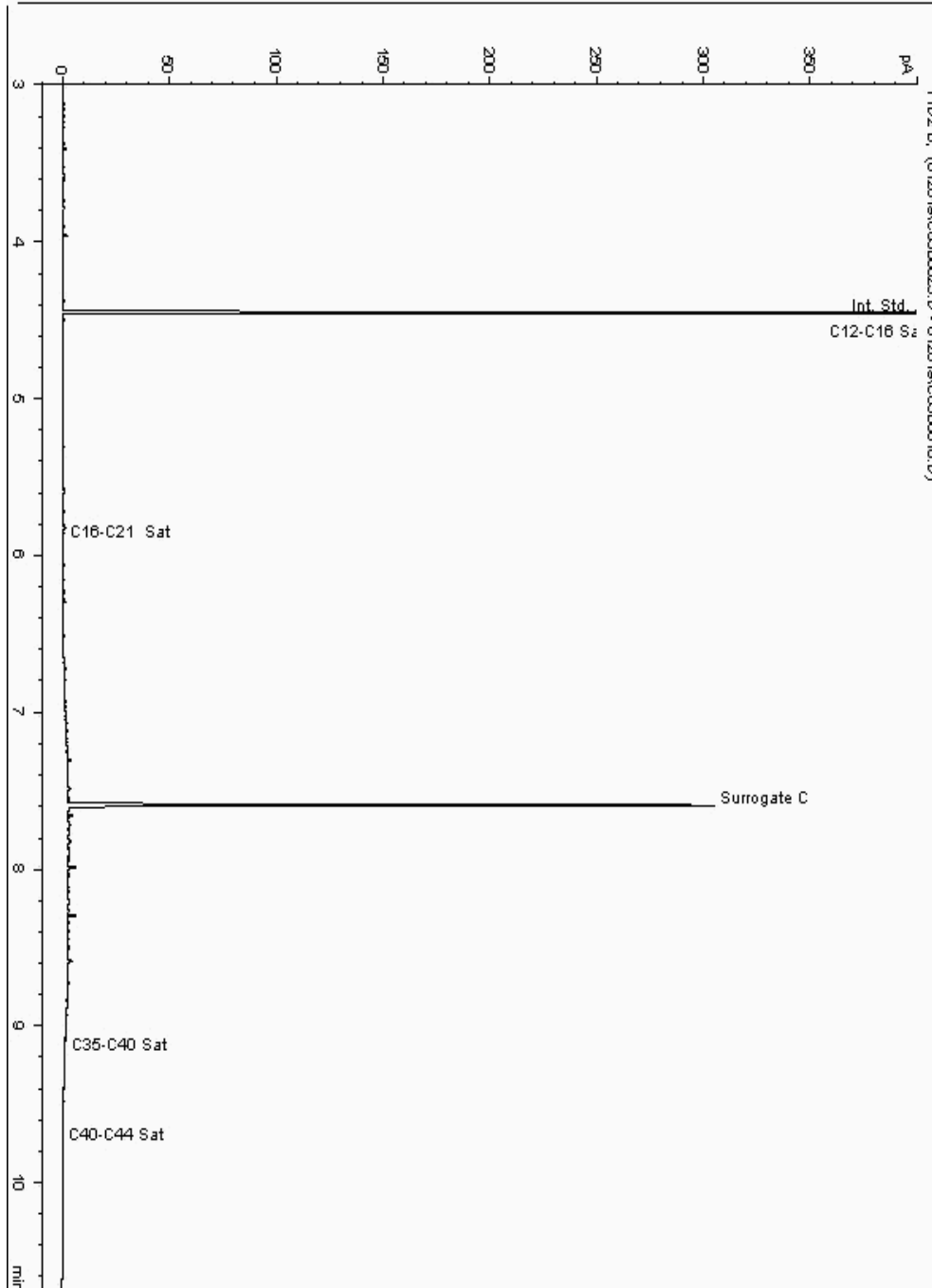
Analysis: EPH CWG (Aliphatic) GC (S)
19180100

Sample No :
Sample ID : BH227

19,180,100Depth :5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18016568-
Date Acquired : 26/01/2019 17:09:05 PM
Units : ppb
Dilution: BH227[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

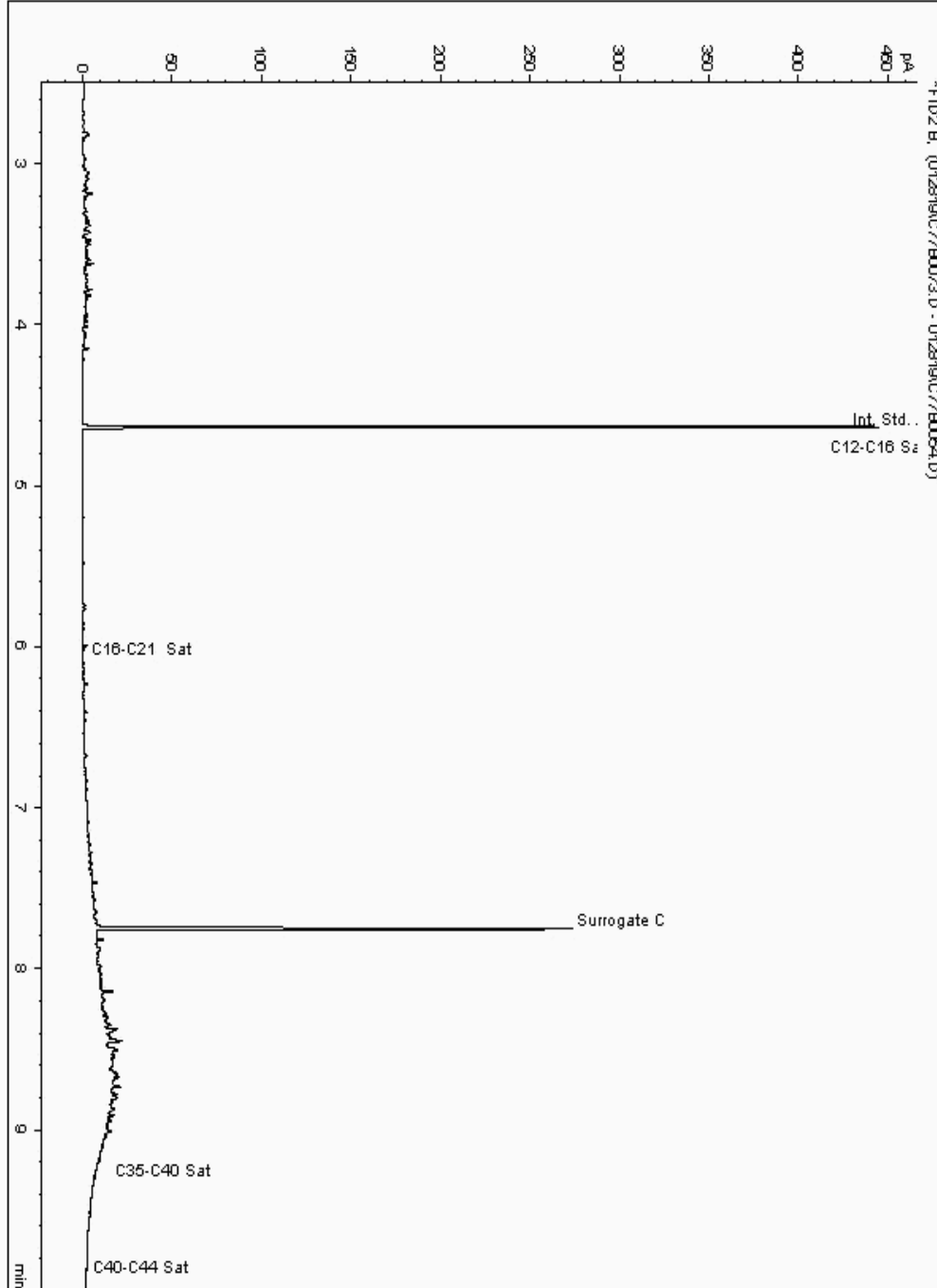
Analysis: EPH CWG (Aliphatic) GC (S)
19180112

Sample No :
Sample ID : BH229

19,180,112Depth :2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18017193-
Date Acquired : 1/29/2019 12:54:24 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

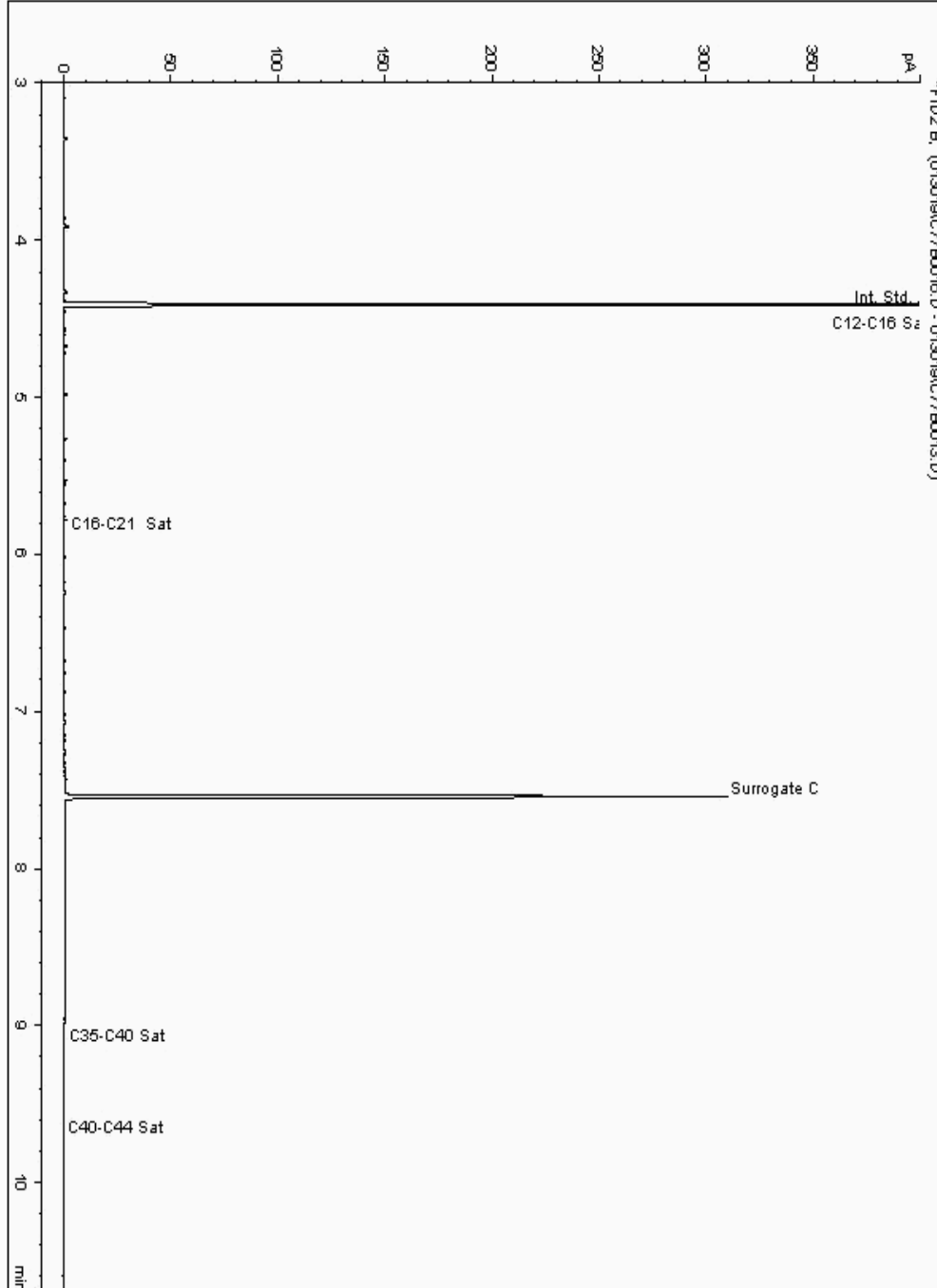
Analysis: EPH CWG (Aliphatic) GC (S)
19222384

Sample No :
Sample ID : BH227

19,222,384 Depth : 15.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18060601-
Date Acquired : 30/01/2019 13:31:48 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

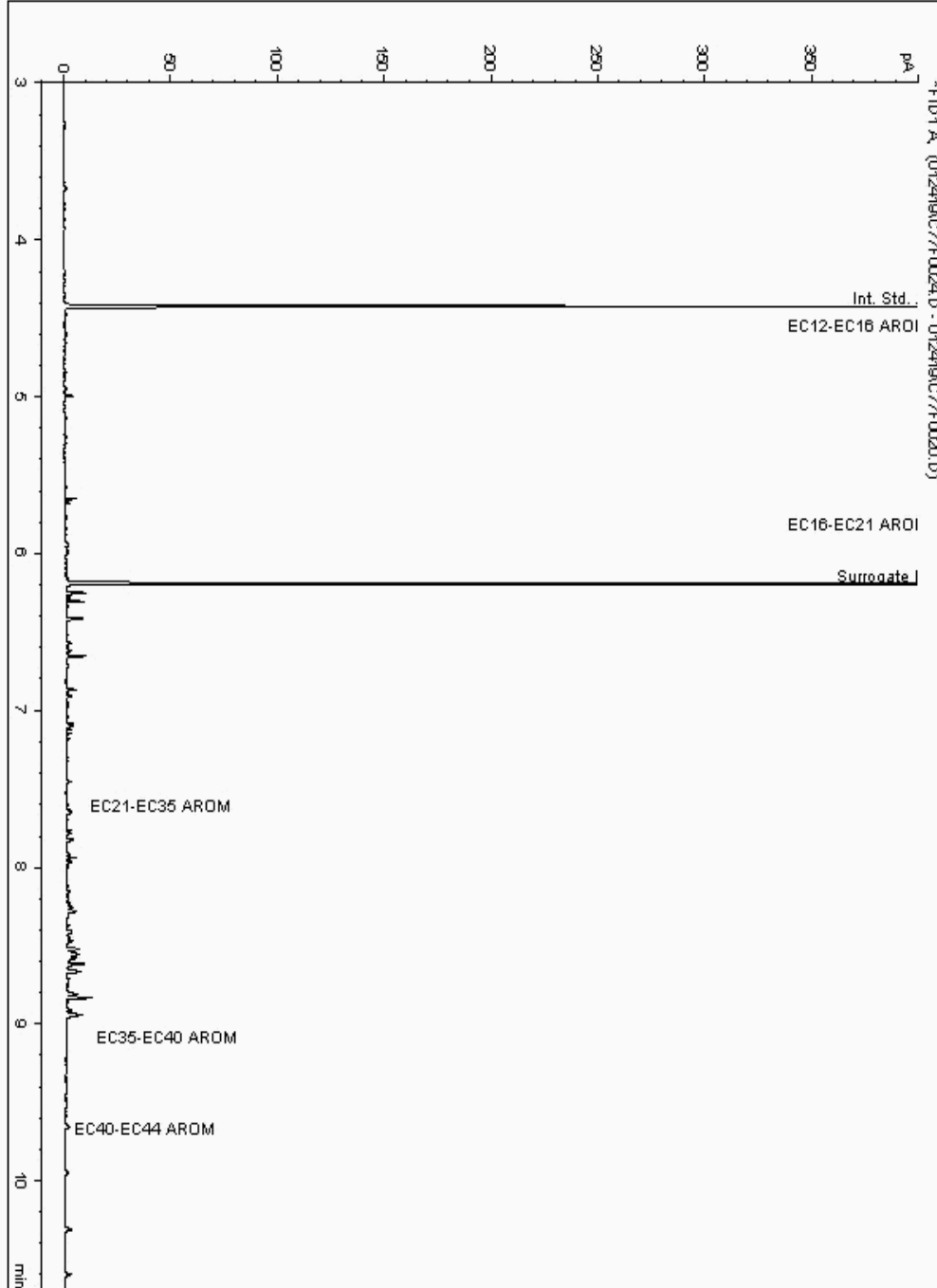
Analysis: EPH CWG (Aromatic) GC (S)
19154778

Sample No :
Sample ID : BH225

19,154,778 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997230-
Date Acquired : 24/01/2019 18:54:23 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

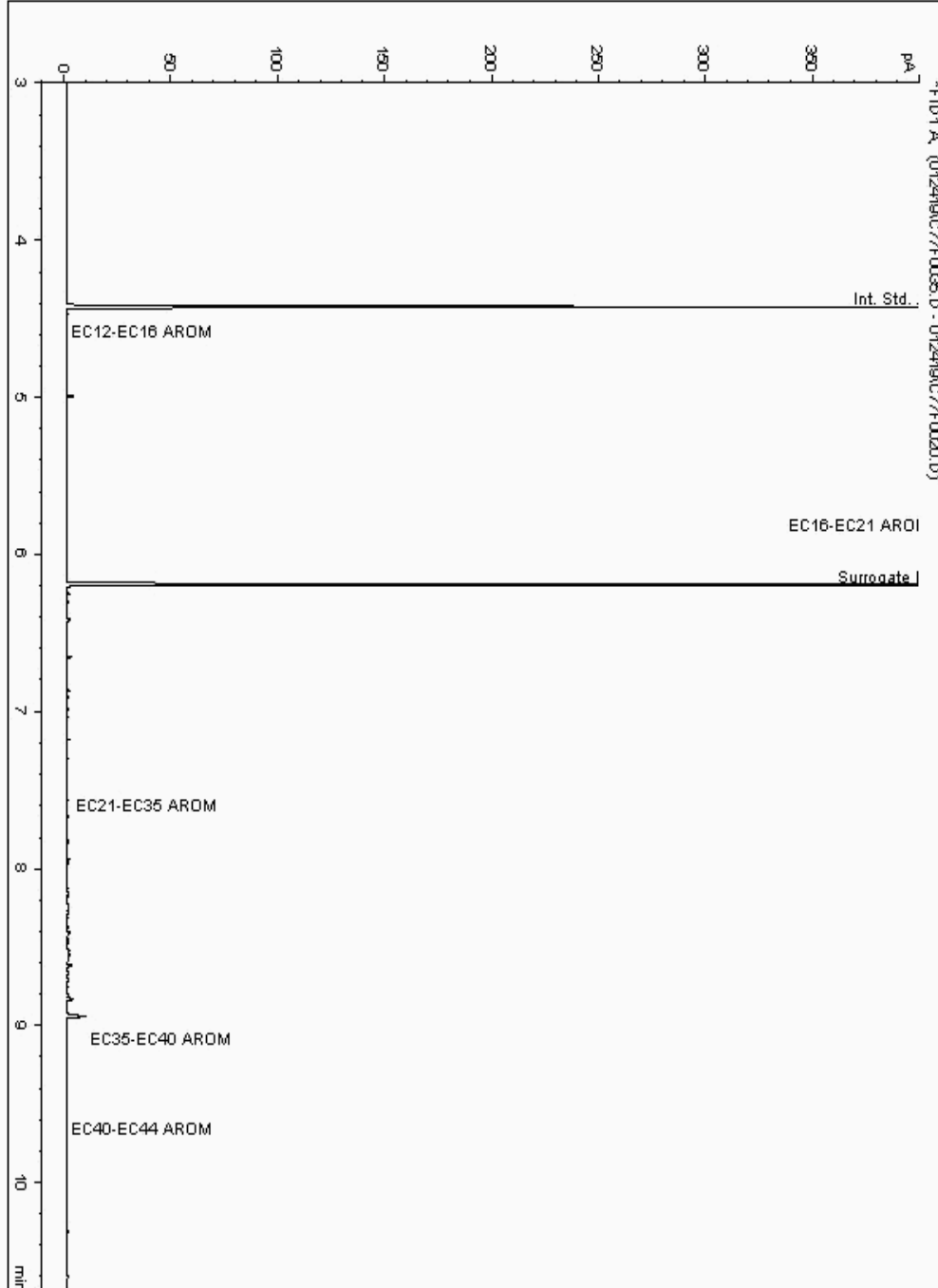
Analysis: EPH CWG (Aromatic) GC (S)
19154800

Sample No :
Sample ID : BH225

19,154,800Depth :5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17997328-
Date Acquired : 24/01/2019 22:18:53 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

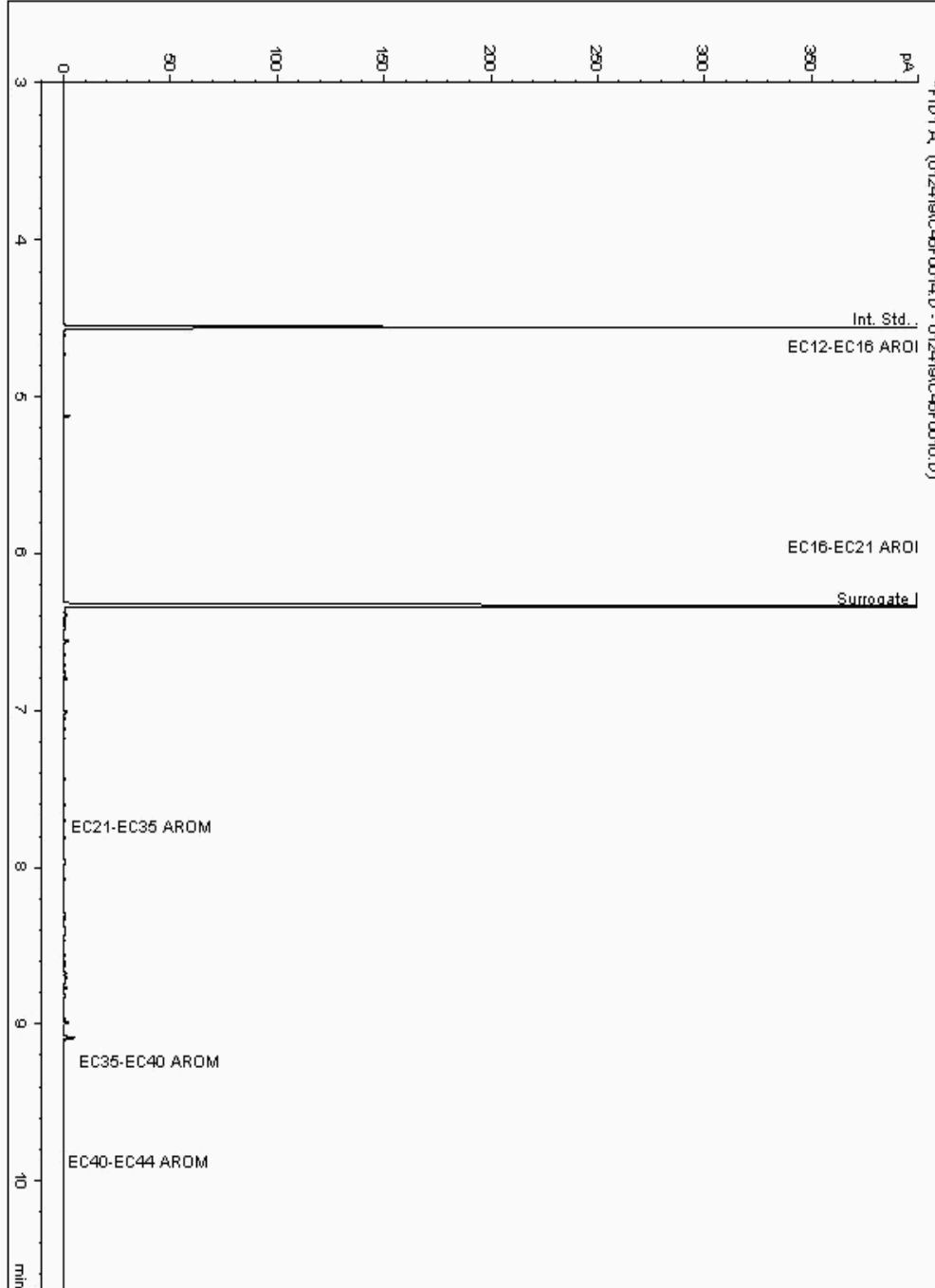
Analysis: EPH CWG (Aromatic) GC (S)
19154878

Sample No :
Sample ID : BH225

19,154,878 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17997302-
Date Acquired : 24/01/2019 14:25:42 PM
Units : ppb
Dilution: BH225[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

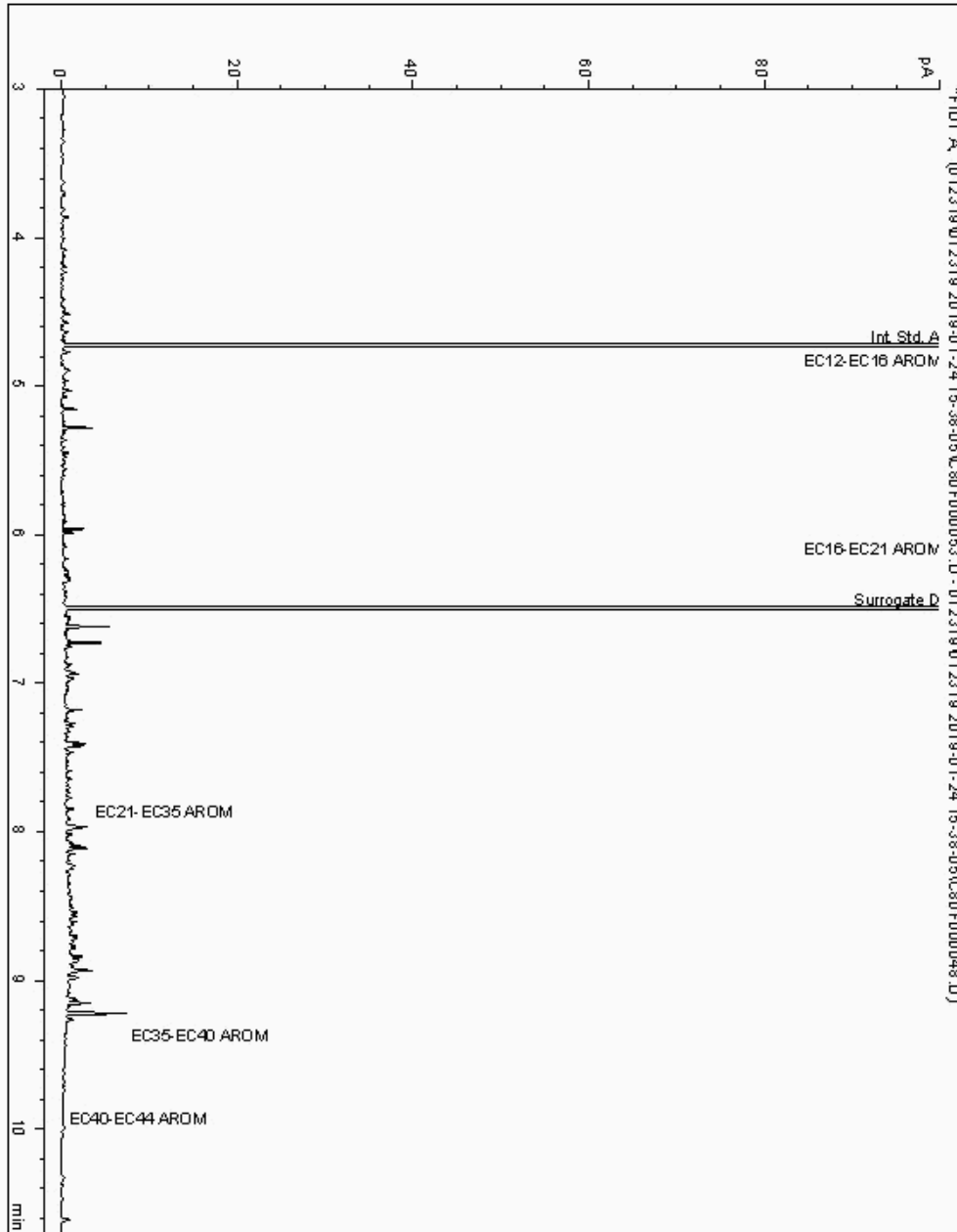
Analysis: EPH CWG (Aromatic) GC (S)
19155332

Sample No :
Sample ID : BH225

19,155,332Depth :0.50 - 1.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17997208-
Date Acquired : 24/01/19 16:17:18
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

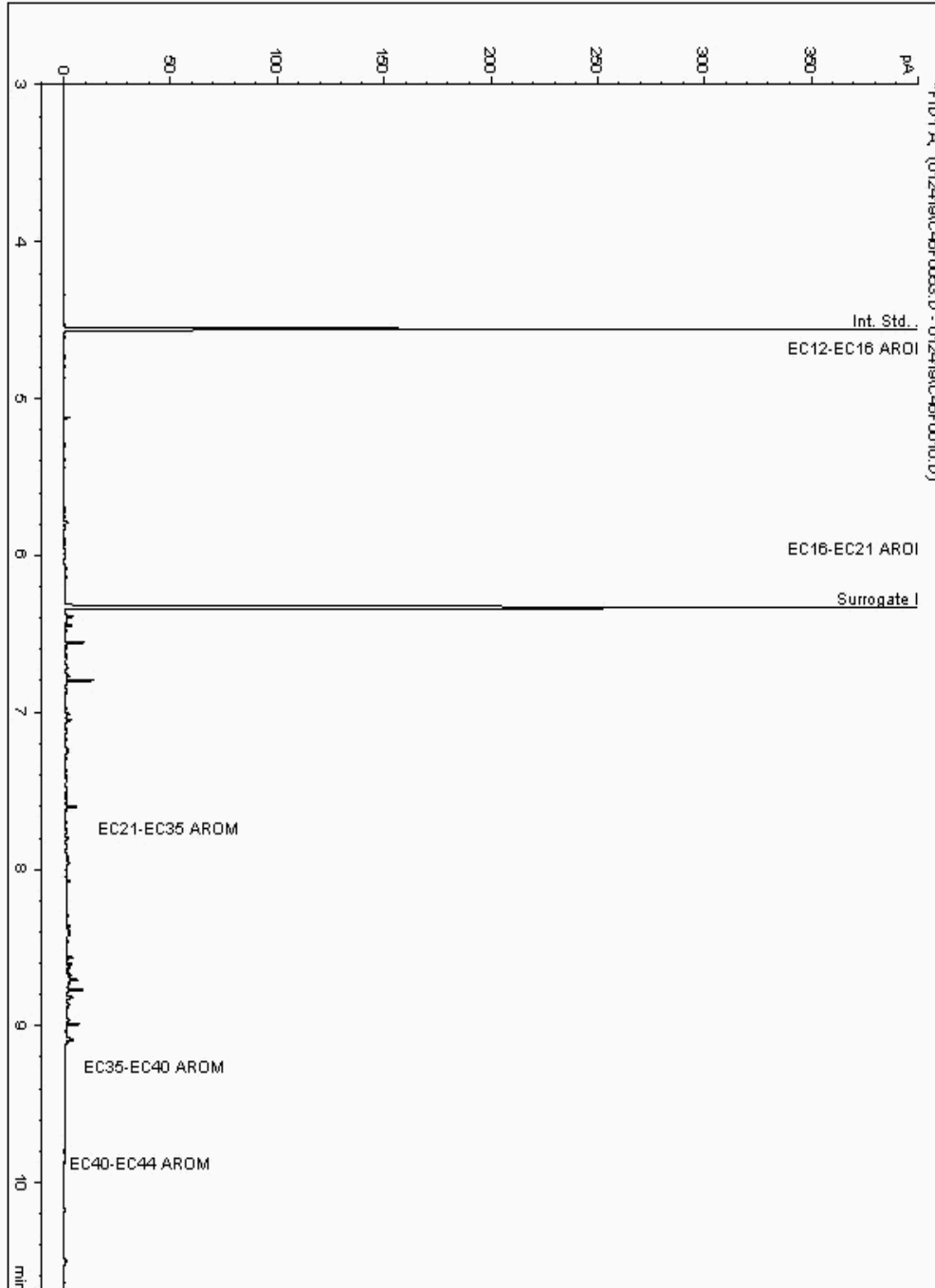
Analysis: EPH CWG (Aromatic) GC (S)
19155373

Sample No :
Sample ID : BH225

19,155,373 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17997275-
Date Acquired : 25/01/2019 01:37:11 PM
Units : ppb
Dilution: BH225[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

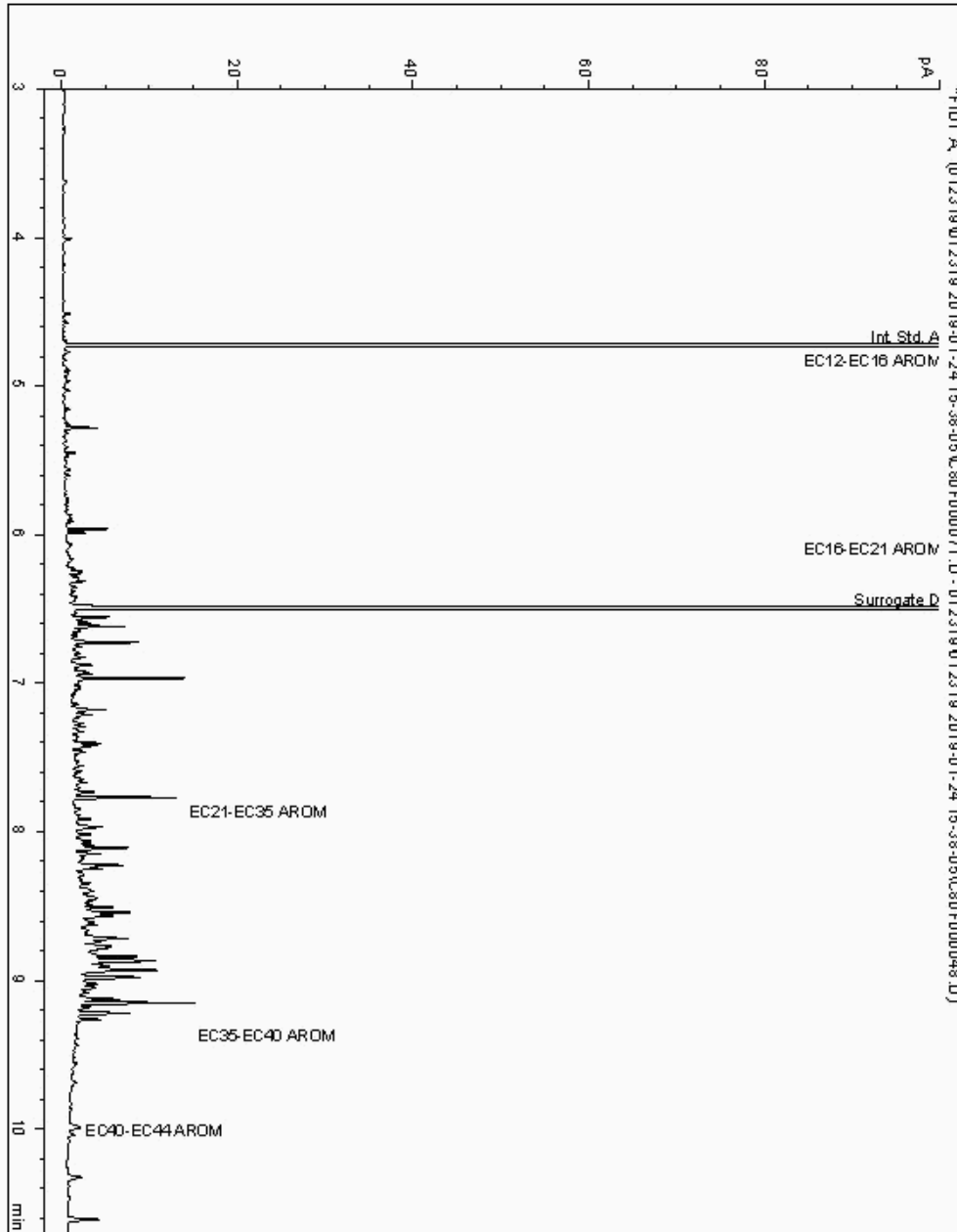
Analysis: EPH CWG (Aromatic) GC (S)
19155402

Sample No :
Sample ID : BH225

19,155,402Depth :2.00 - 3.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17997252-
Date Acquired : 24/01/19 21:39:26
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

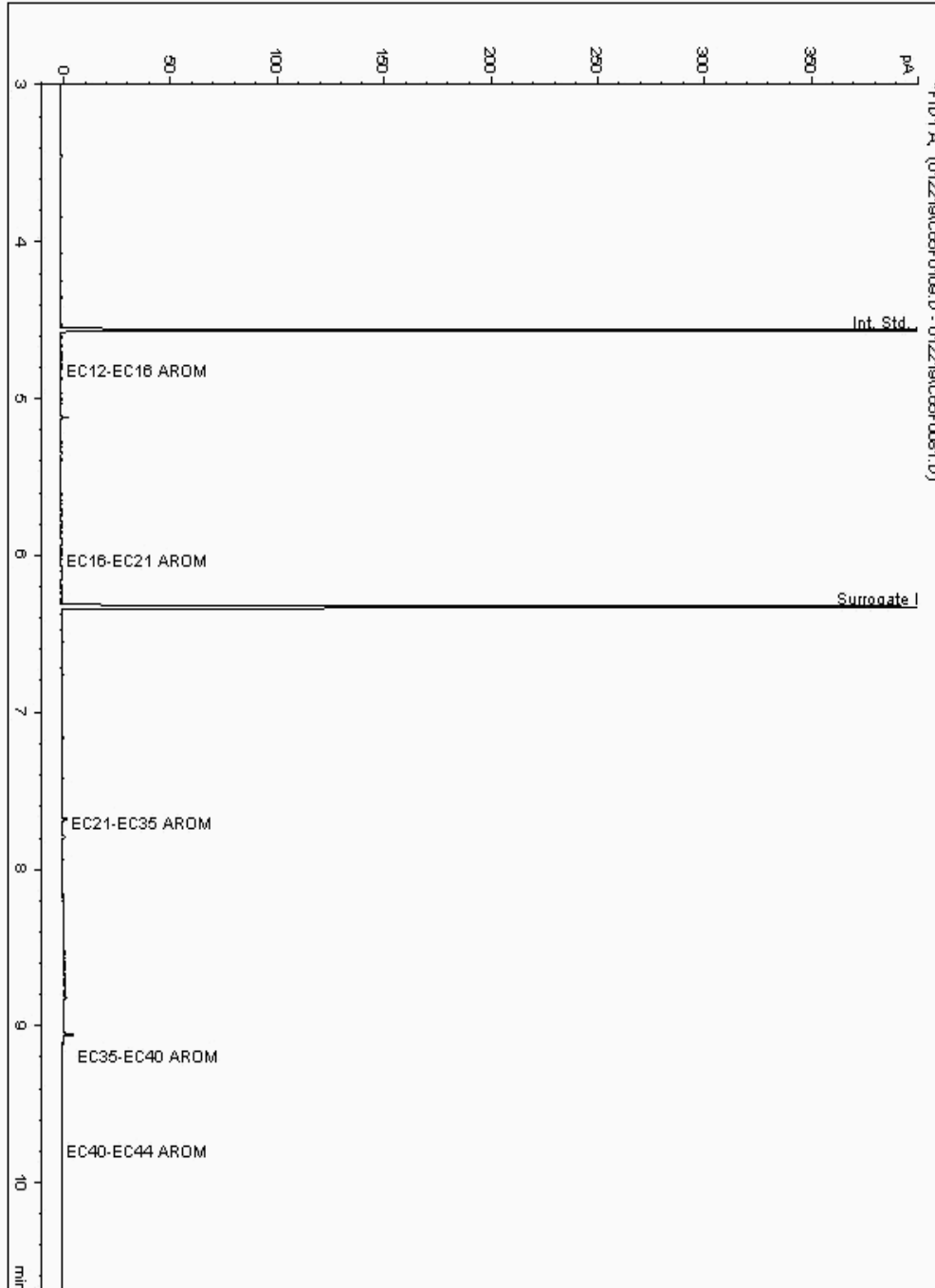
Analysis: EPH CWG (Aromatic) GC (S)
19156241

Sample No :
Sample ID : BH225

19,156,241 Depth : 15.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17997553-
Date Acquired : 24/01/2019 17:41:10 PM
Units : ppb
Dilution: BH225[15.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

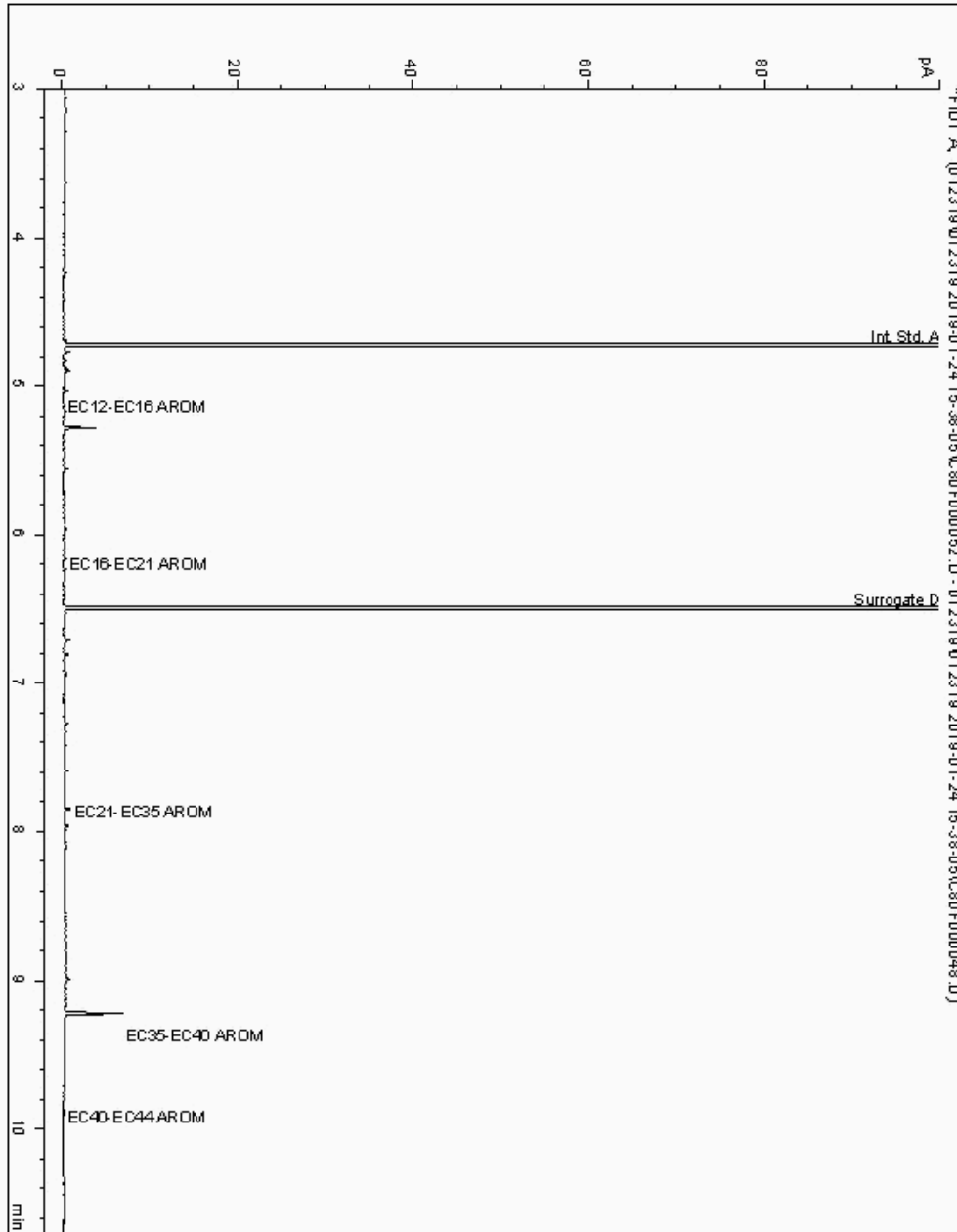
Analysis: EPH CWG (Aromatic) GC (S)
19156348

Sample No :
Sample ID : BH225

19,156,348 Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17997482-
Date Acquired : 24/01/19 15:25:05
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

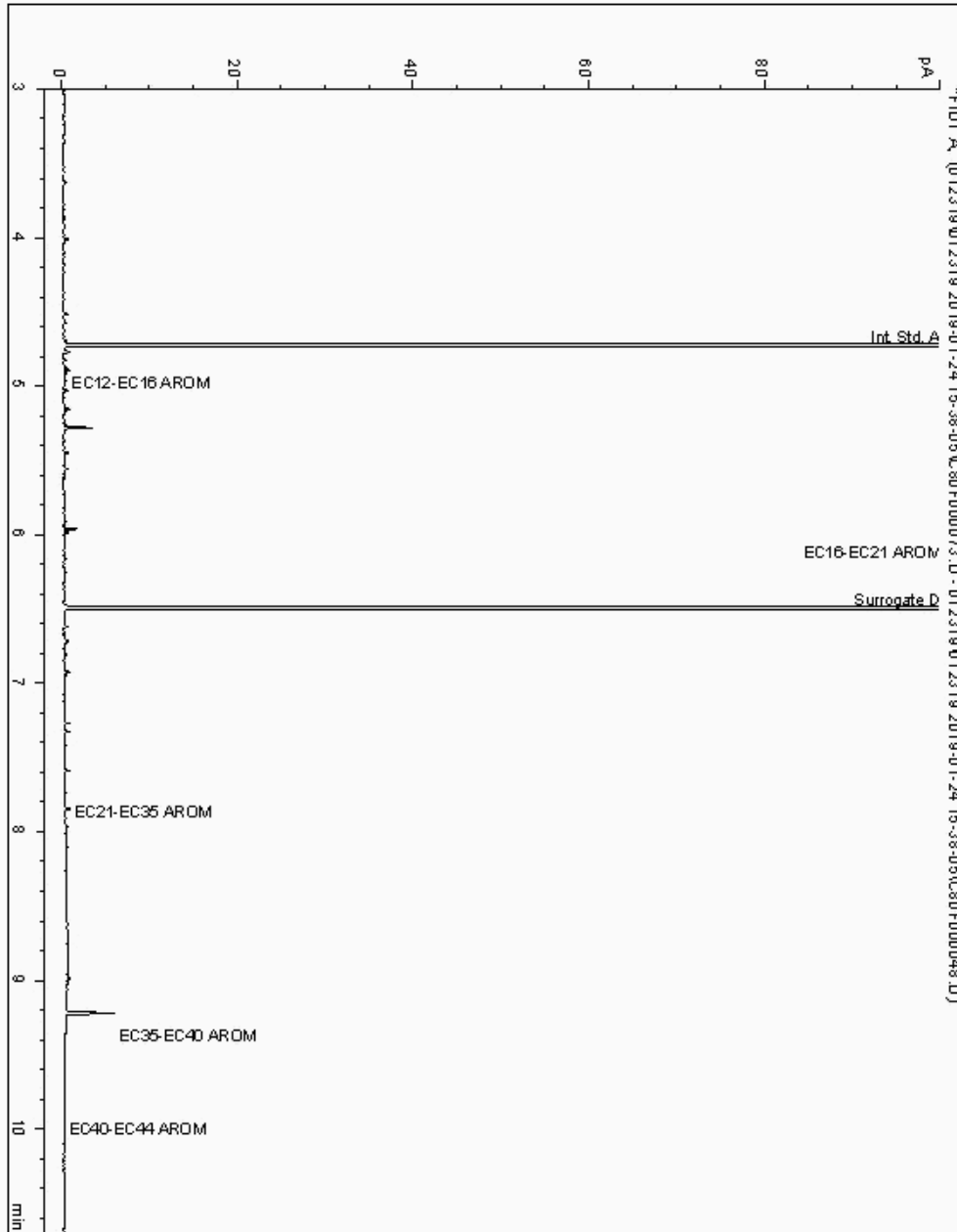
Analysis: EPH CWG (Aromatic) GC (S)
19156441

Sample No :
Sample ID : BH225

19,156,441 Depth : 12.00 - 13.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17997448-
Date Acquired : 24/01/19 22:11:33
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

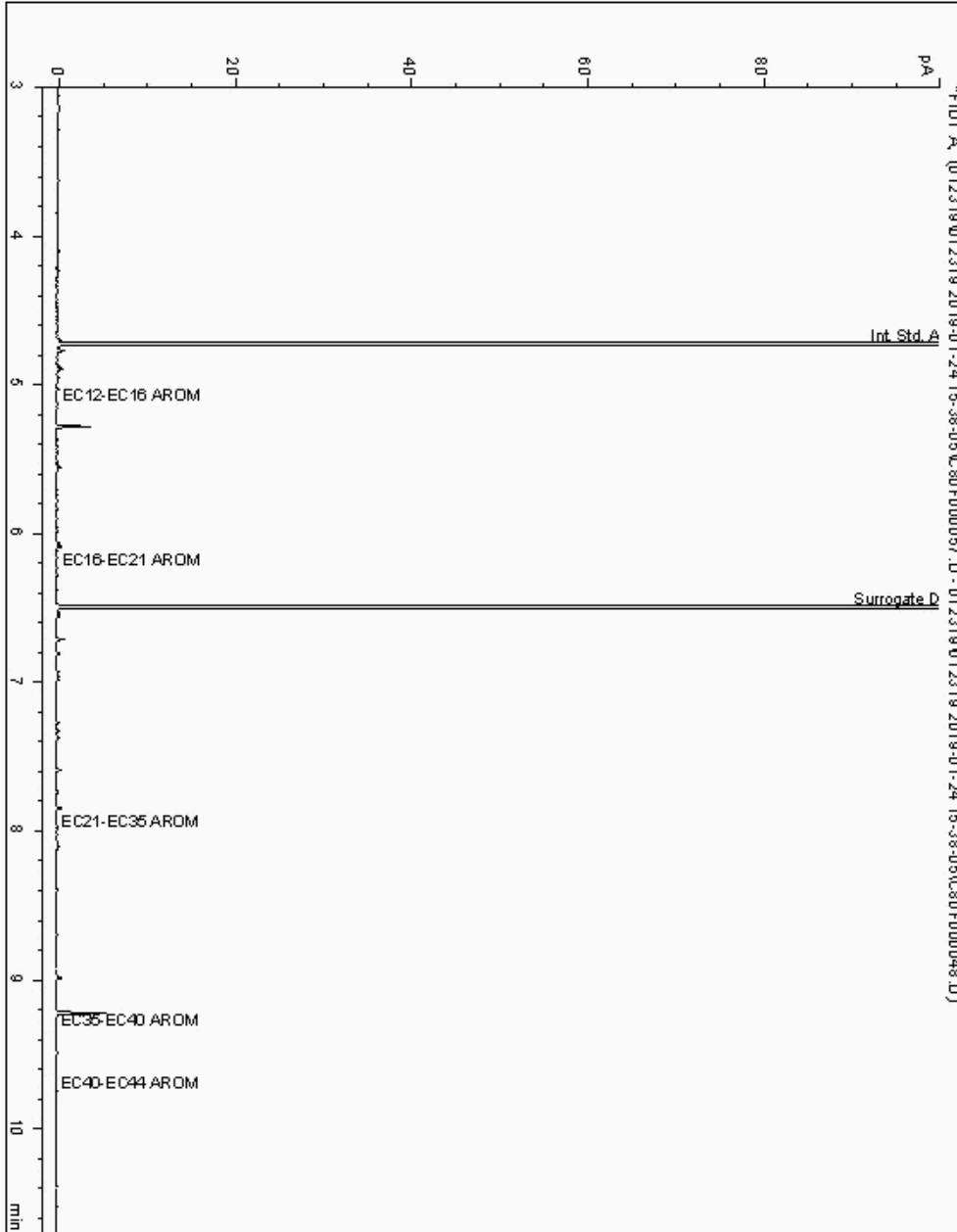
Analysis: EPH CWG (Aromatic) GC (S)
19156479

Sample No :
Sample ID : BH225

19,156,479 Depth : 10.00 - 12.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17997391-
Date Acquired : 24/01/19 17:30:25
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

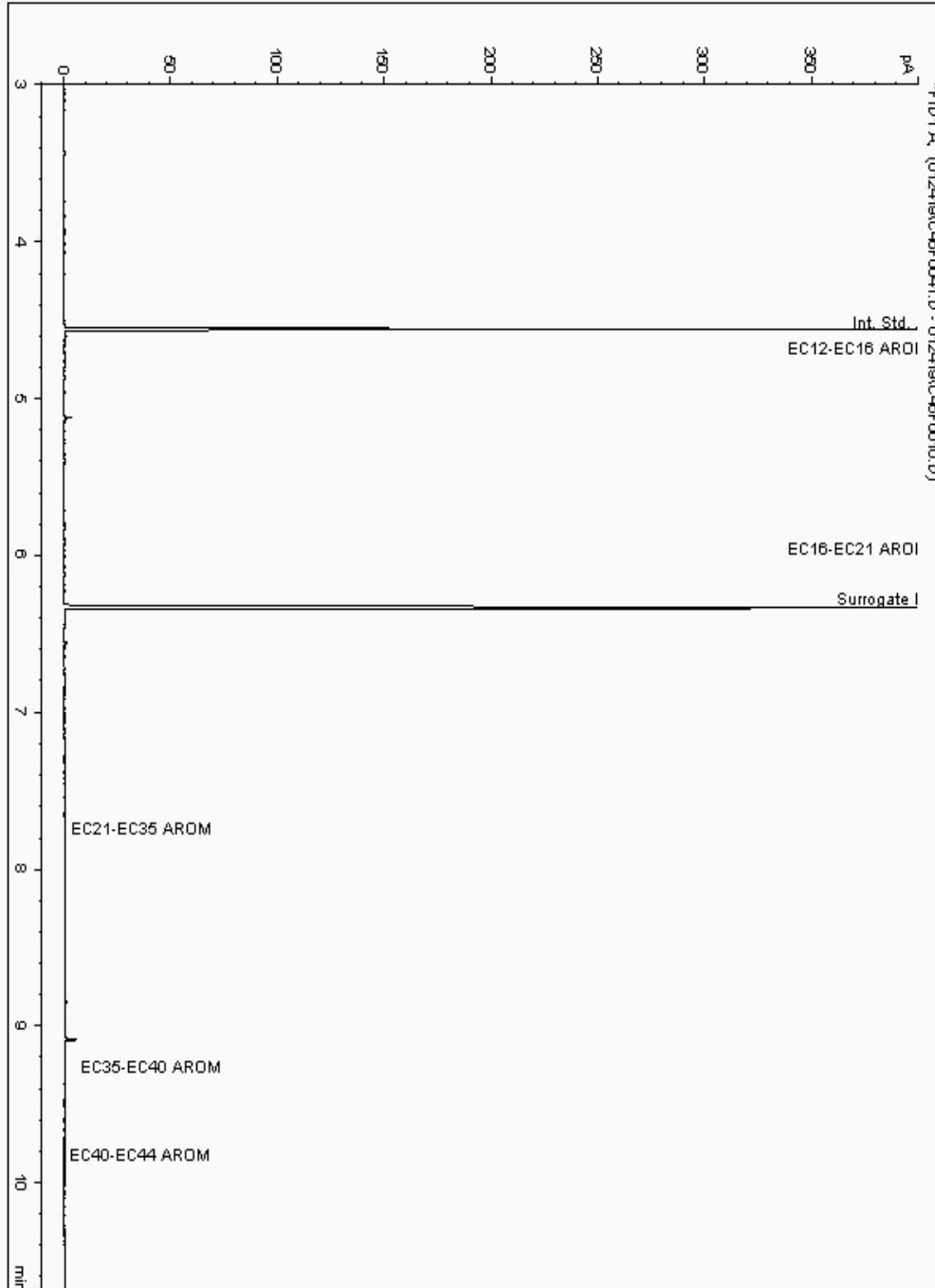
Analysis: EPH CWG (Aromatic) GC (S)
19156512

Sample No :
Sample ID : BH225

19,156,512 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17997355-
Date Acquired : 24/01/2019 22:02:15 PM
Units : ppb
Dilution: BH225[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

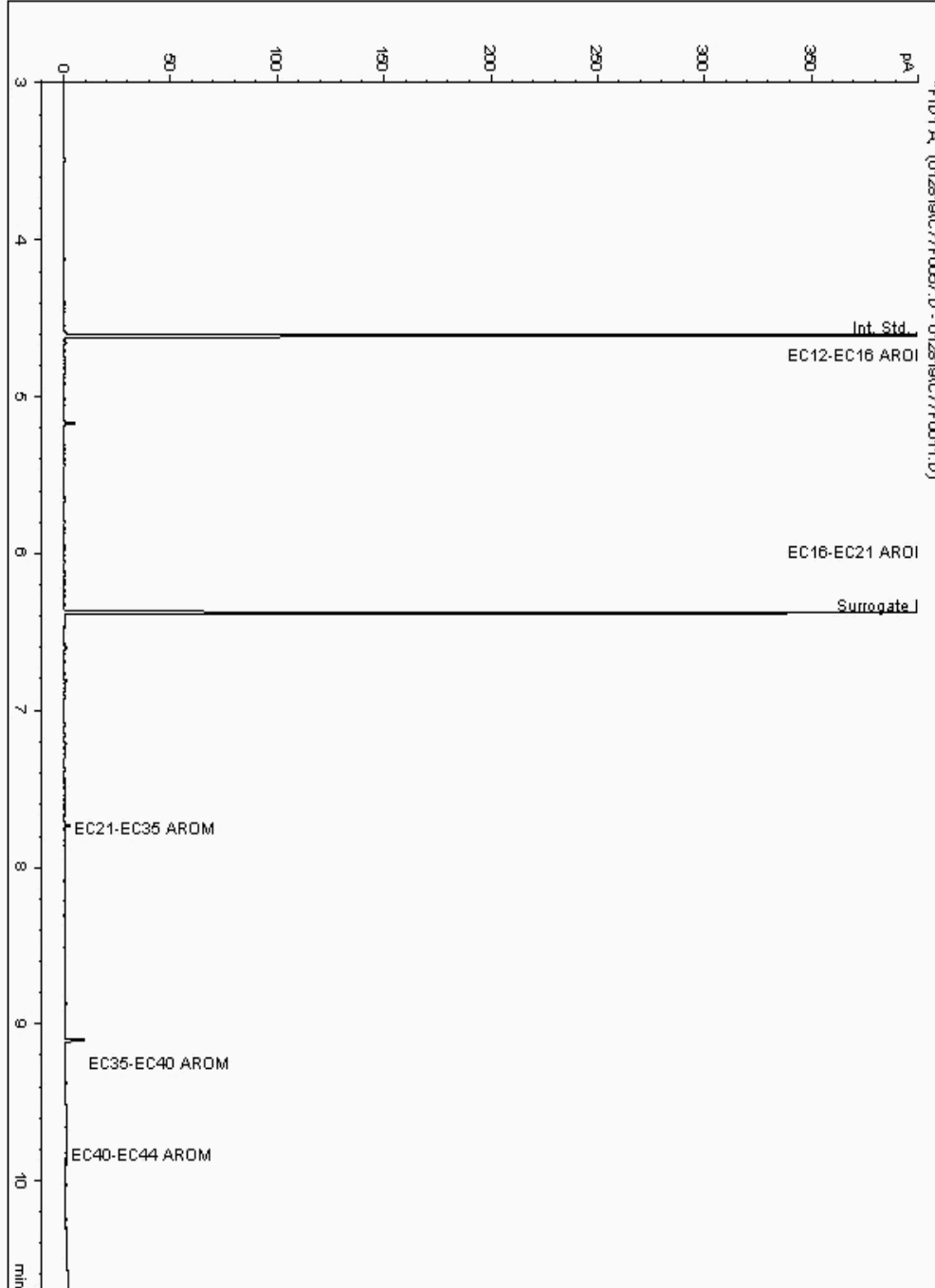
Analysis: EPH CWG (Aromatic) GC (S)
19177782

Sample No :
Sample ID : BH229

19,177,782 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017379-
Date Acquired : 1/29/2019 7:50:35 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

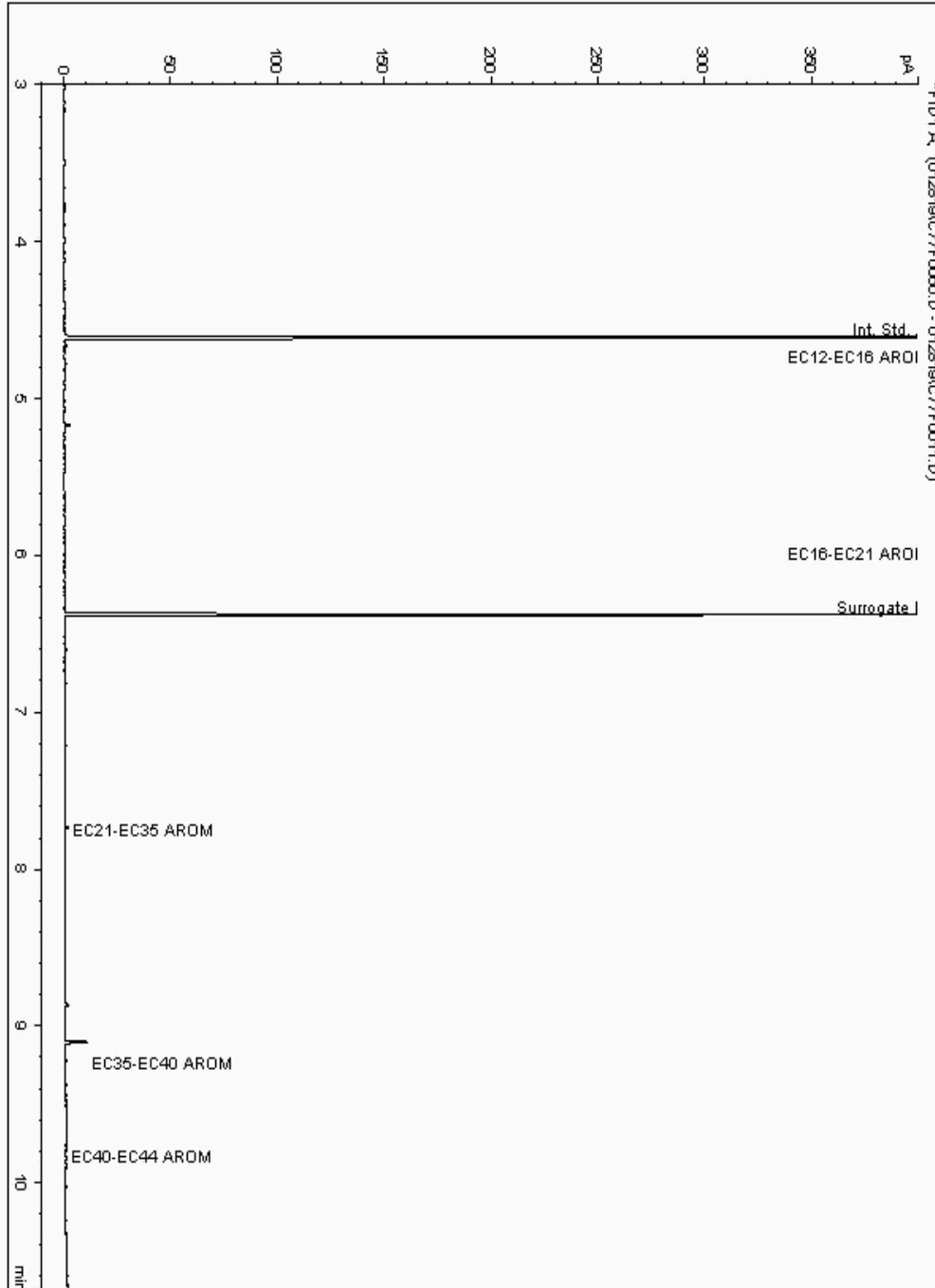
Analysis: EPH CWG (Aromatic) GC (S)
19177850

Sample No :
Sample ID : BH228

19,177,850 Depth : 11.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017017-
Date Acquired : 1/29/2019 8:51:03 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

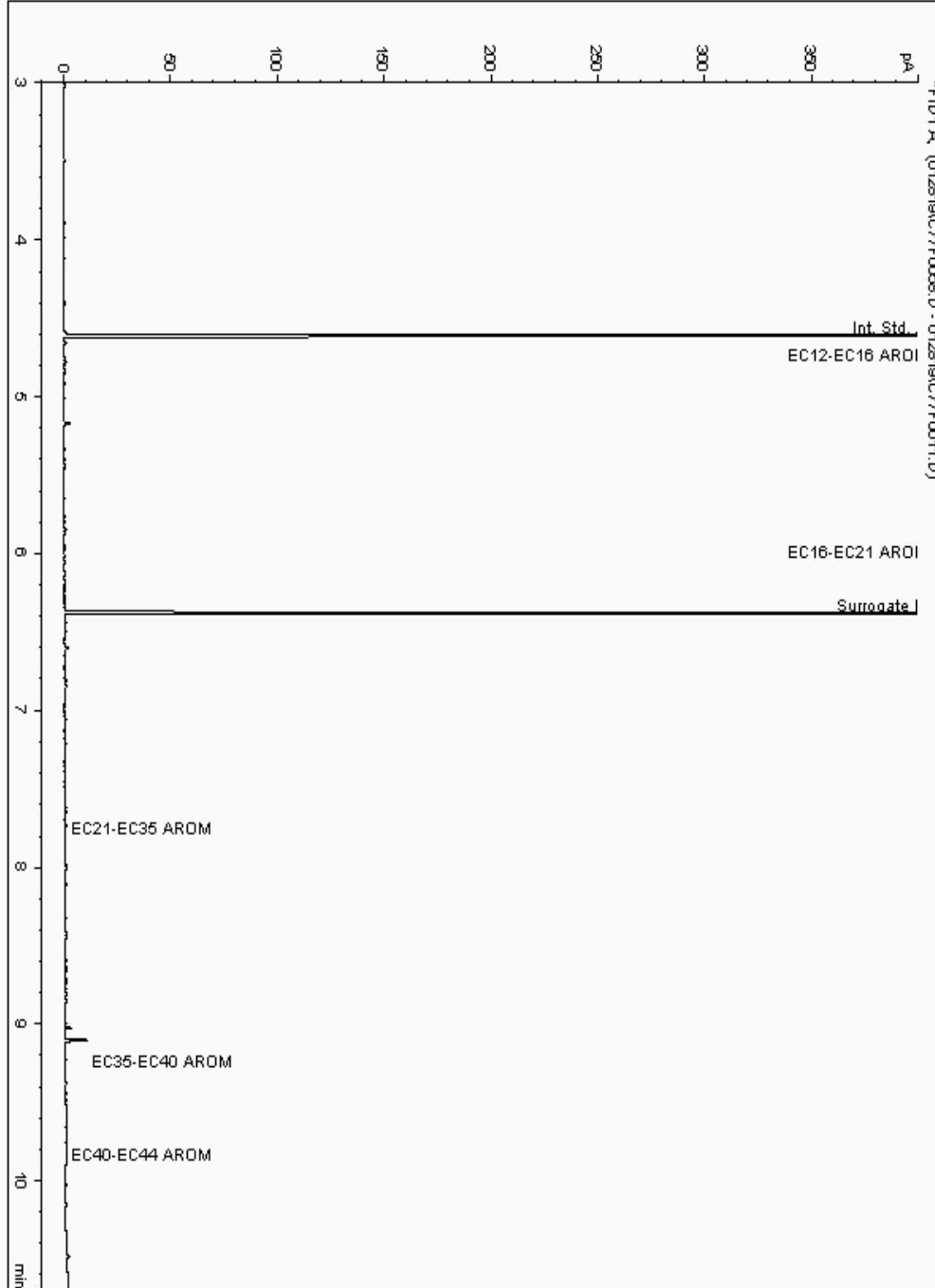
Analysis: EPH CWG (Aromatic) GC (S)
19177932

Sample No :
Sample ID : BH228

19,177,932Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016982-
Date Acquired : 1/29/2019 8:10:45 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

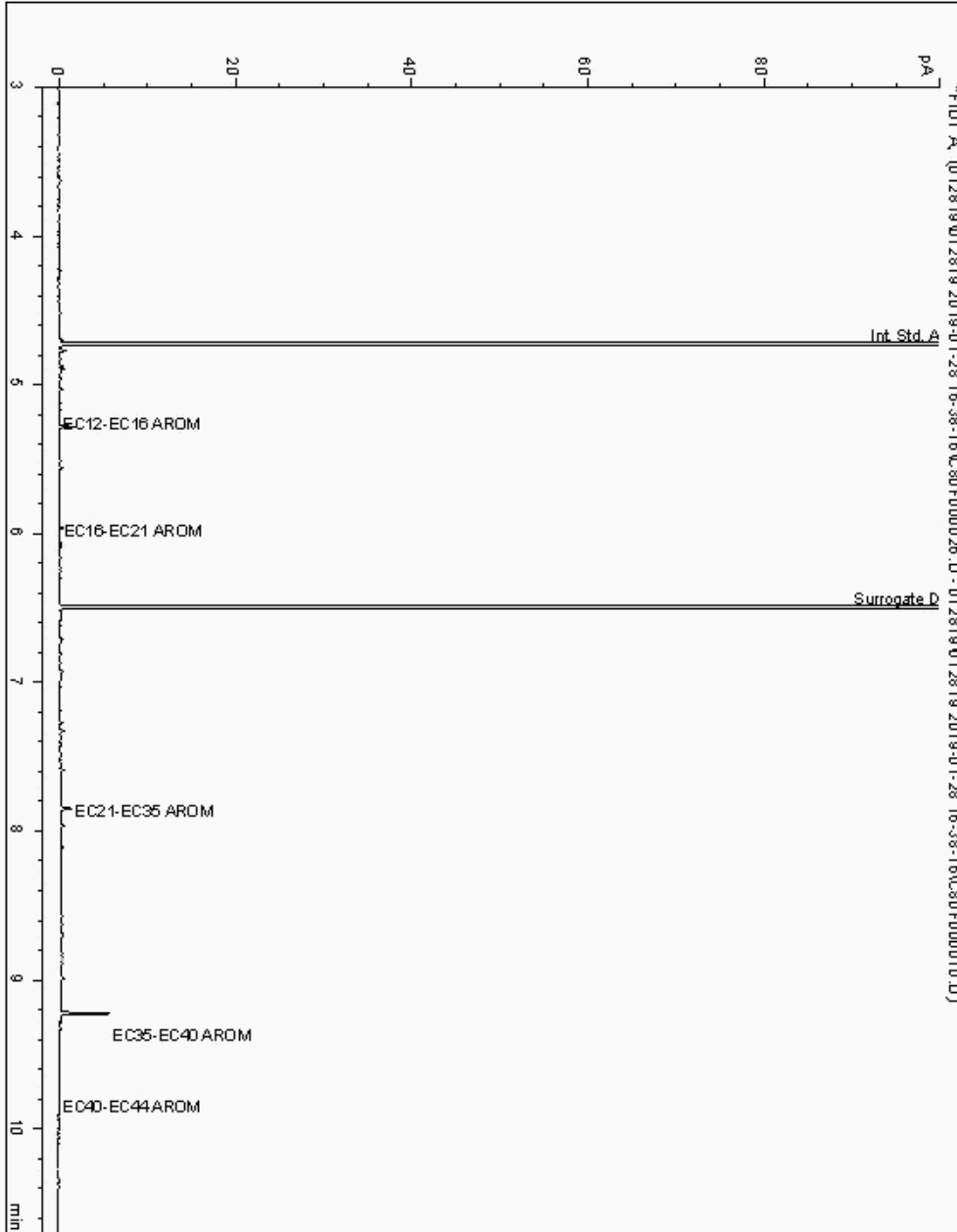
Analysis: EPH CWG (Aromatic) GC (S)
19178036

Sample No :
Sample ID : BH227

19,178,036Depth : 14.00 - 15.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016697-
Date Acquired : 29/01/19 00:45:15
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

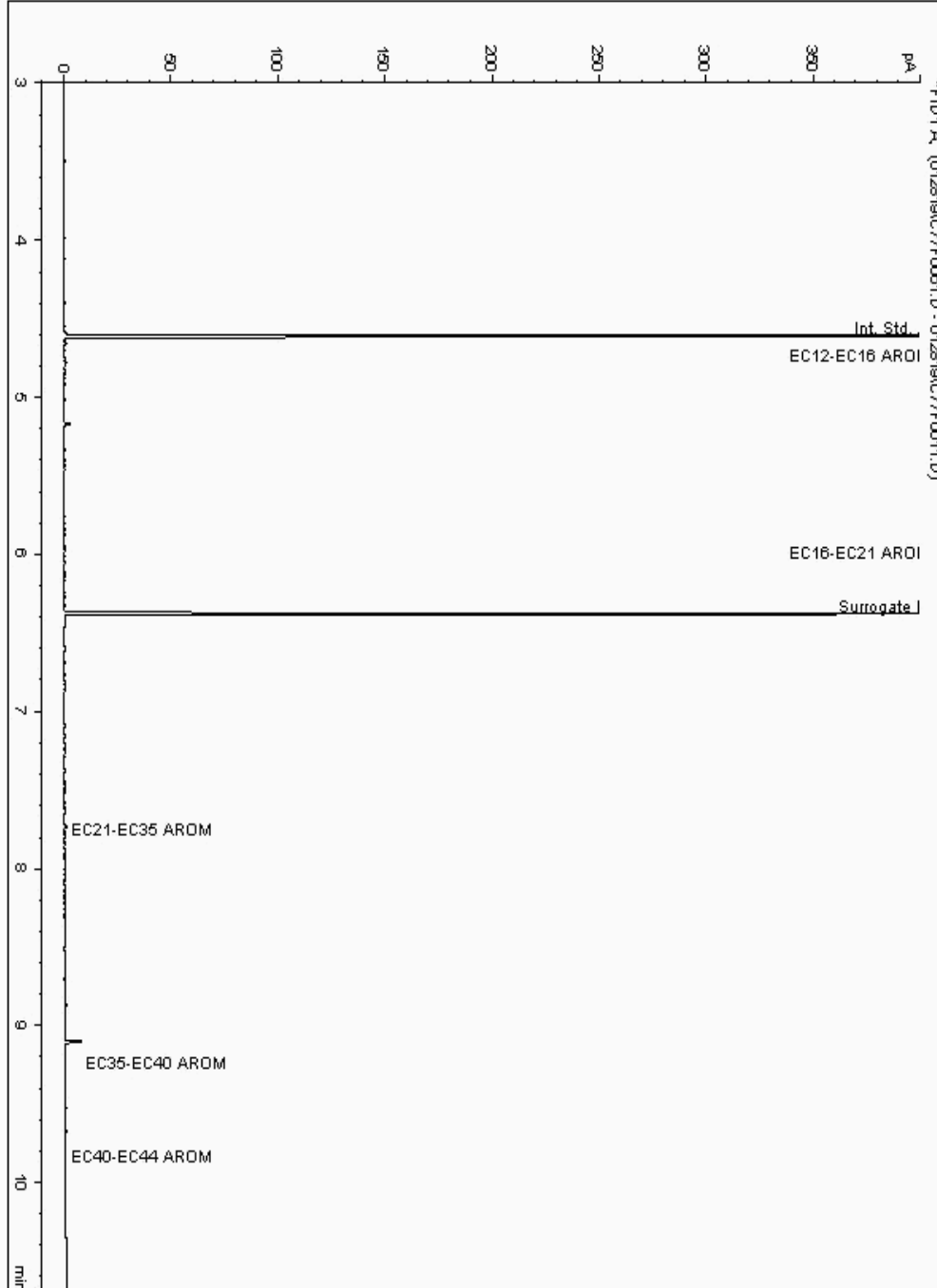
Analysis: EPH CWG (Aromatic) GC (S)
19178070

Sample No :
Sample ID : BH227

19,178,070 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016664-
Date Acquired : 1/29/2019 9:11:05 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

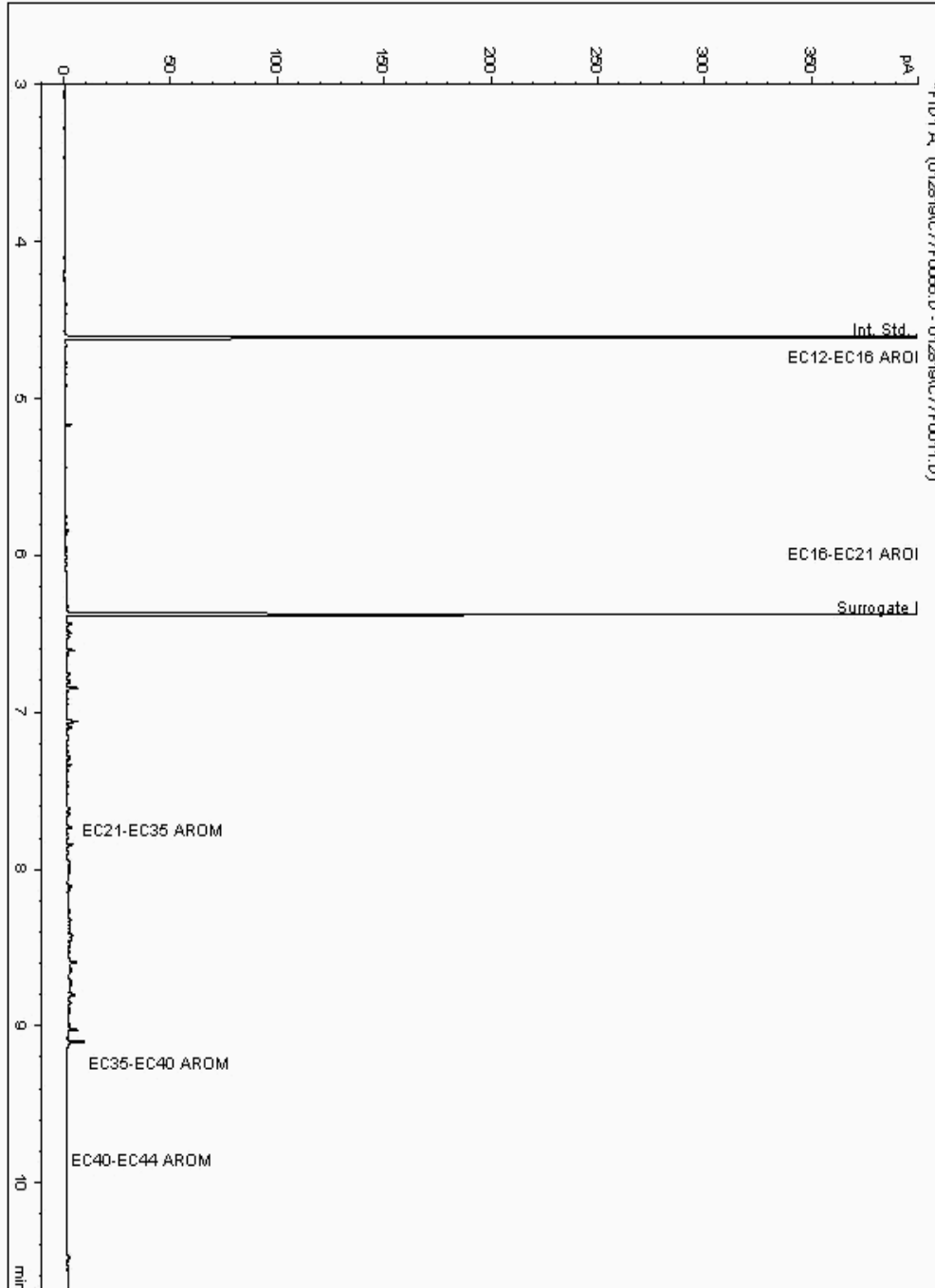
Analysis: EPH CWG (Aromatic) GC (S)
19178071

Sample No :
Sample ID : BH228

19,178,071 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016775-
Date Acquired : 1/29/2019 10:49:30 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

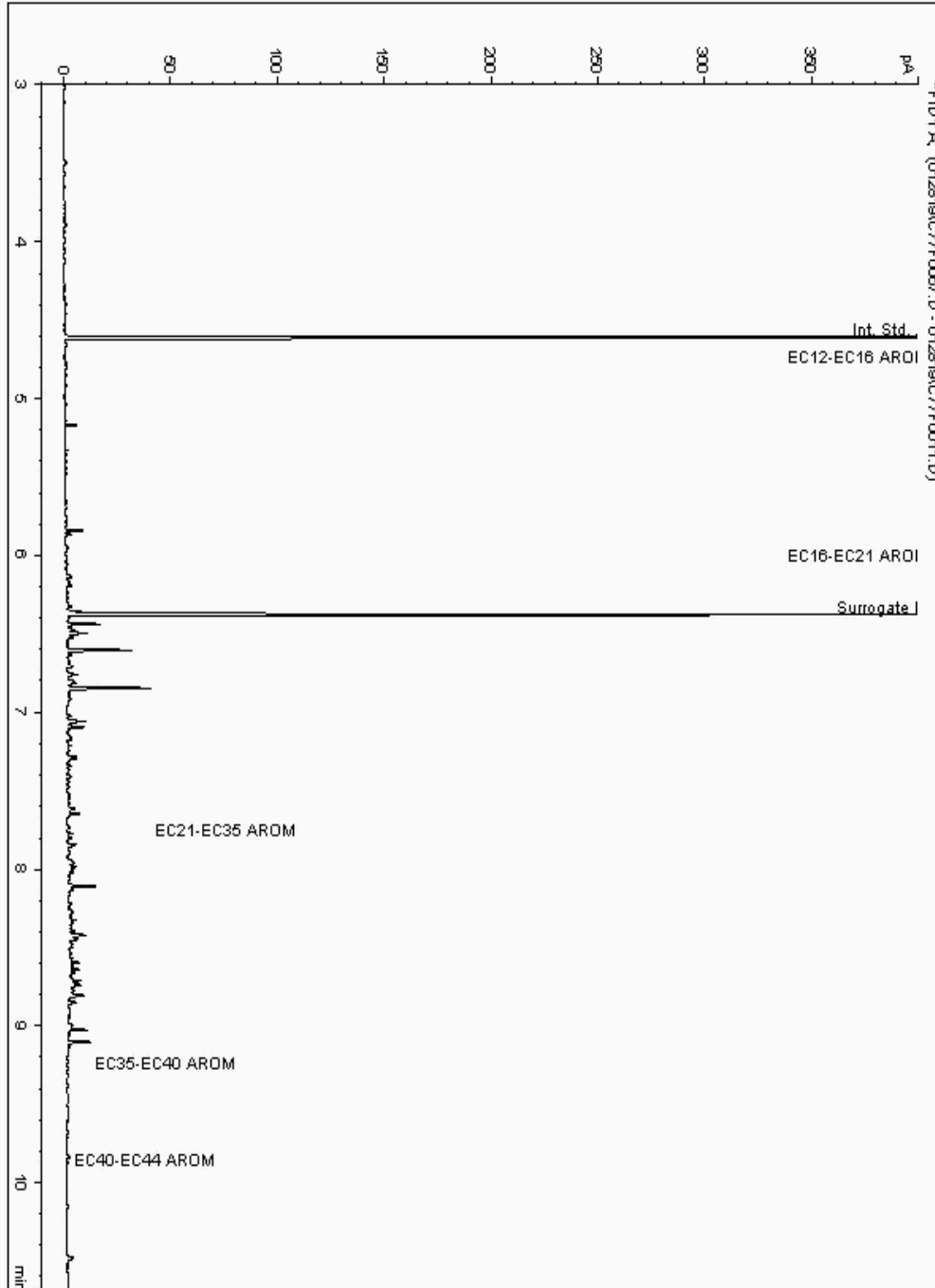
Analysis: EPH CWG (Aromatic) GC (S)
19178129

Sample No :
Sample ID : BH227

19,178,129Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016519-
Date Acquired : 1/29/2019 11:09:45 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

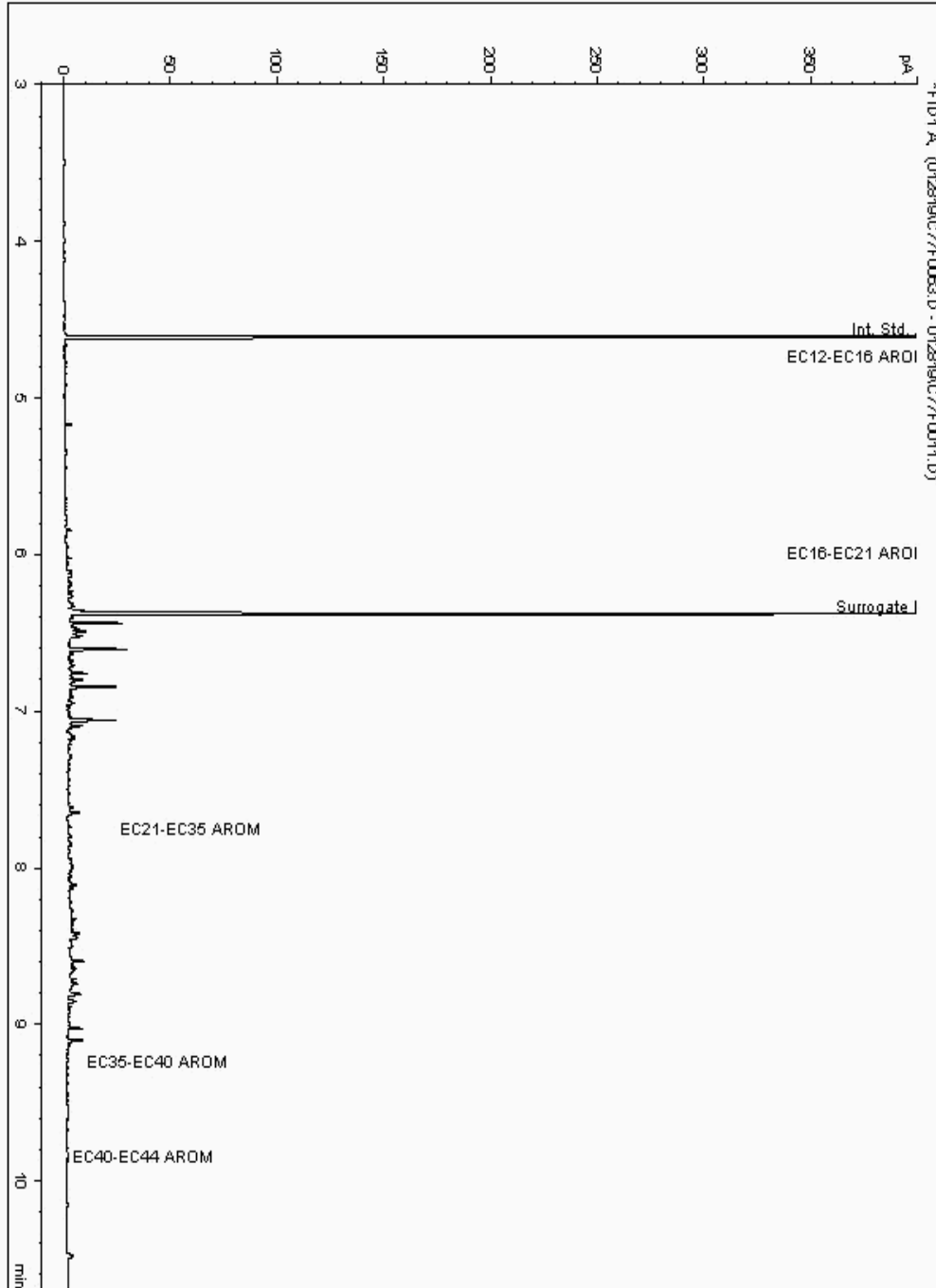
Analysis: EPH CWG (Aromatic) GC (S)
19178196

Sample No :
Sample ID : BH229

19,178,196Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017266-
Date Acquired : 1/29/2019 9:51:24 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

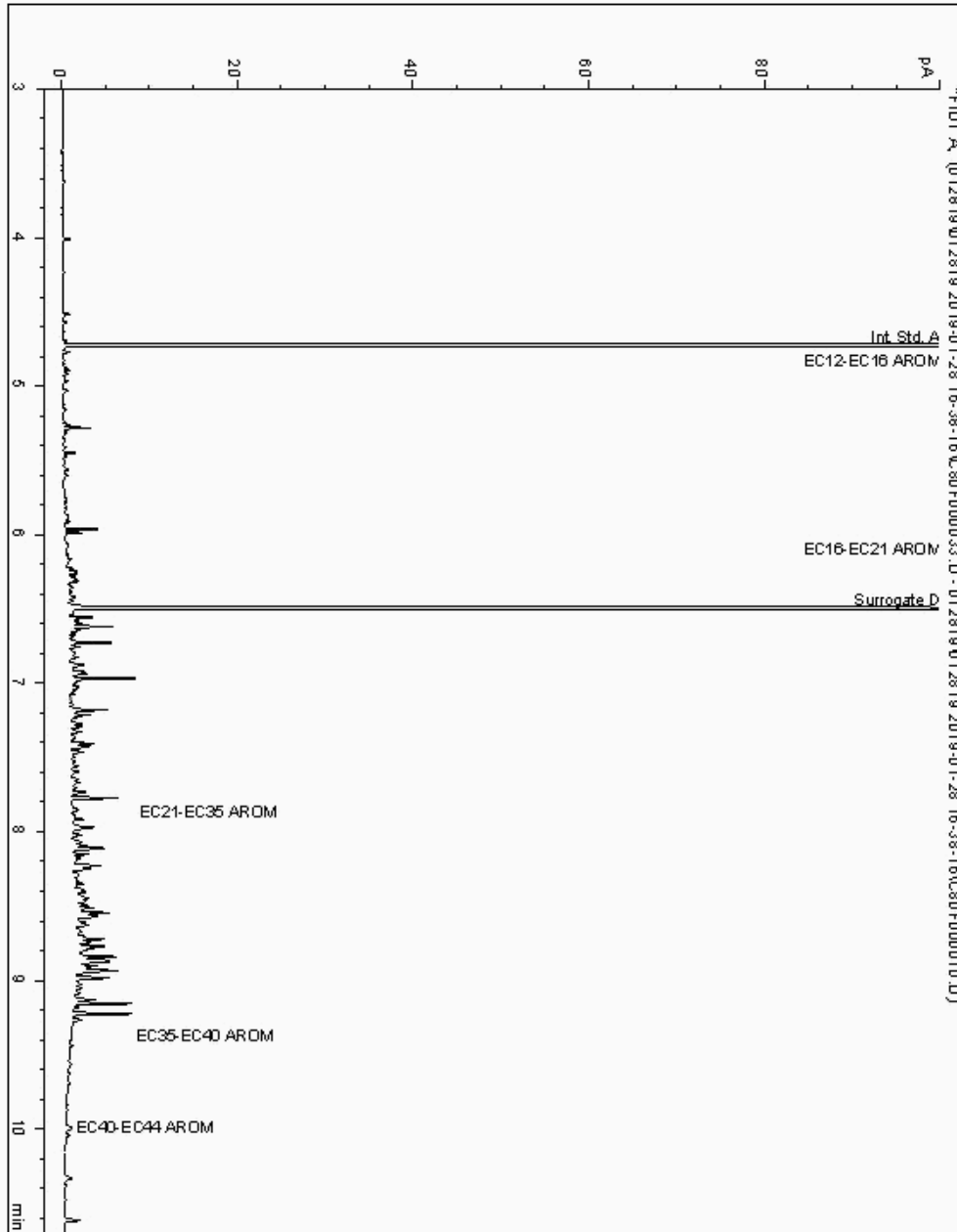
Analysis: EPH CWG (Aromatic) GC (S)
19178333

Sample No :
Sample ID : BH228

19,178,333Depth :2.00 - 3.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016812-
Date Acquired : 29/01/19 02:42:03
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

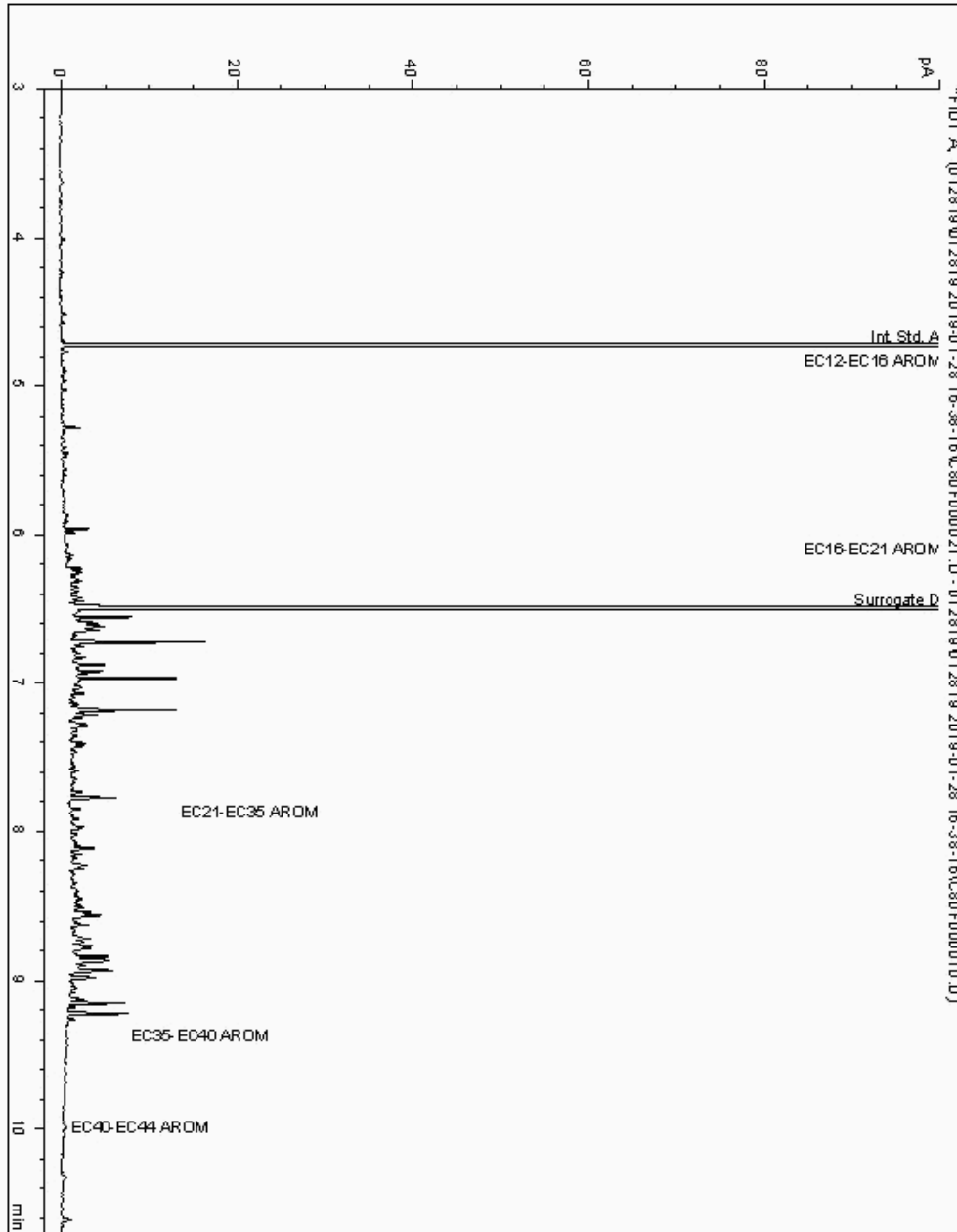
Analysis: EPH CWG (Aromatic) GC (S)
19178403

Sample No :
Sample ID : BH228

19,178,403Depth :4.00 - 5.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016866-
Date Acquired : 28/01/19 23:04:09
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

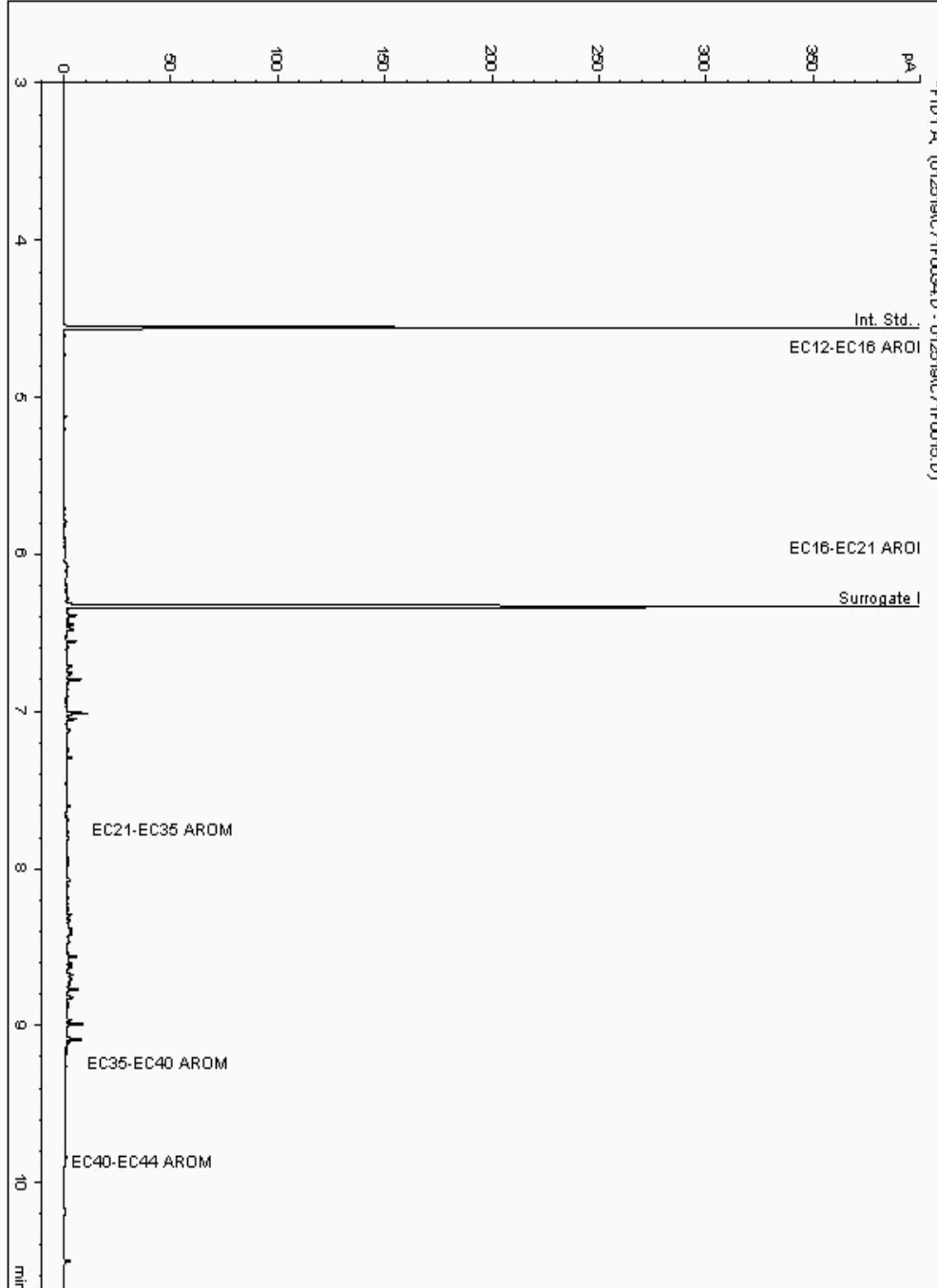
Analysis: EPH CWG (Aromatic) GC (S)
19178413

Sample No :
Sample ID : BH228

19,178,413 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017428-
Date Acquired : 26/01/2019 00:39:04 PM
Units : ppb
Dilution: BH228[1.00 - 2.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

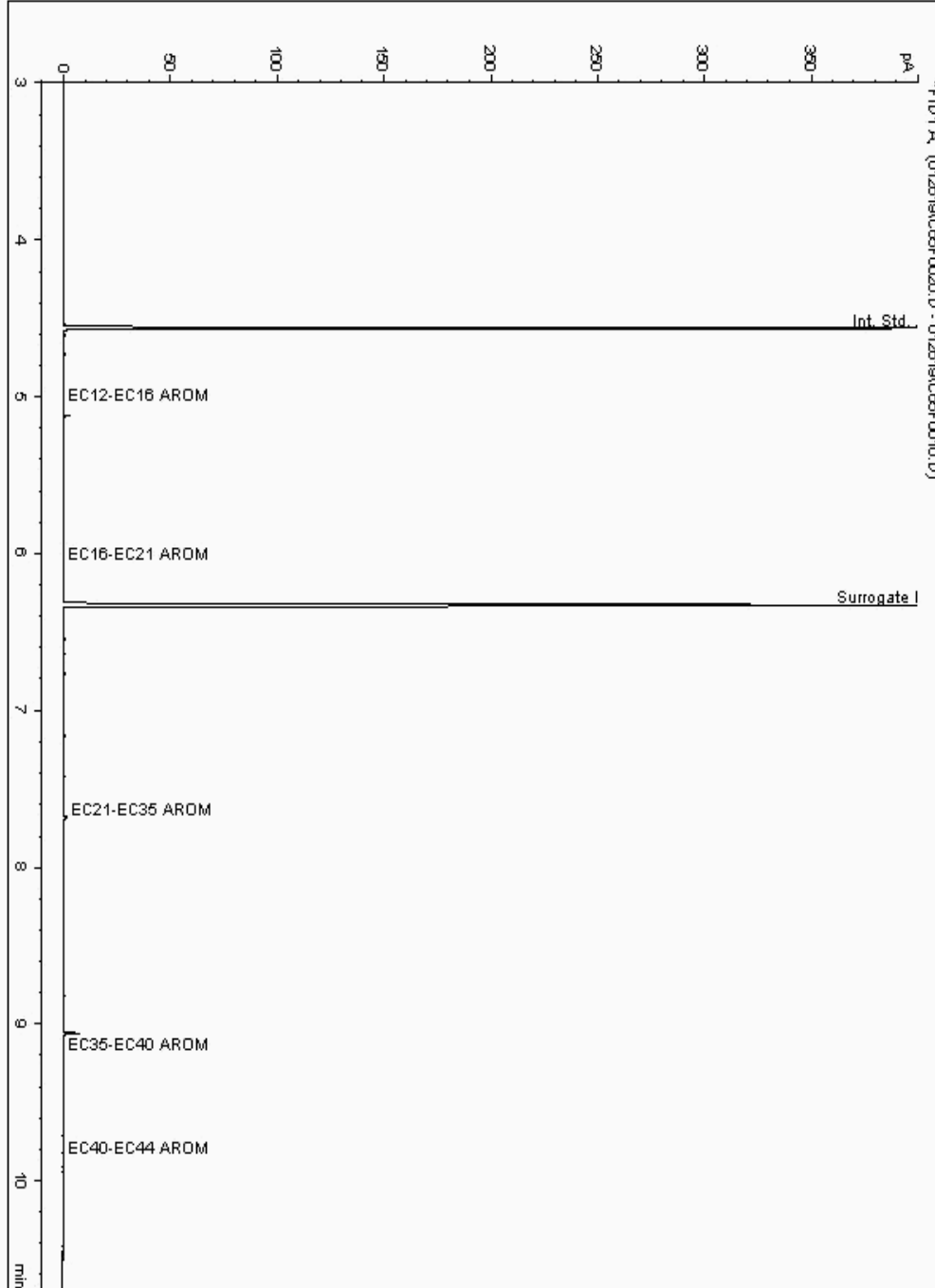
Analysis: EPH CWG (Aromatic) GC (S)
19178508

Sample No :
Sample ID : BH226

19,178,508 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016345-
Date Acquired : 26/01/2019 16:07:18 PM
Units : ppb
Dilution: BH226[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

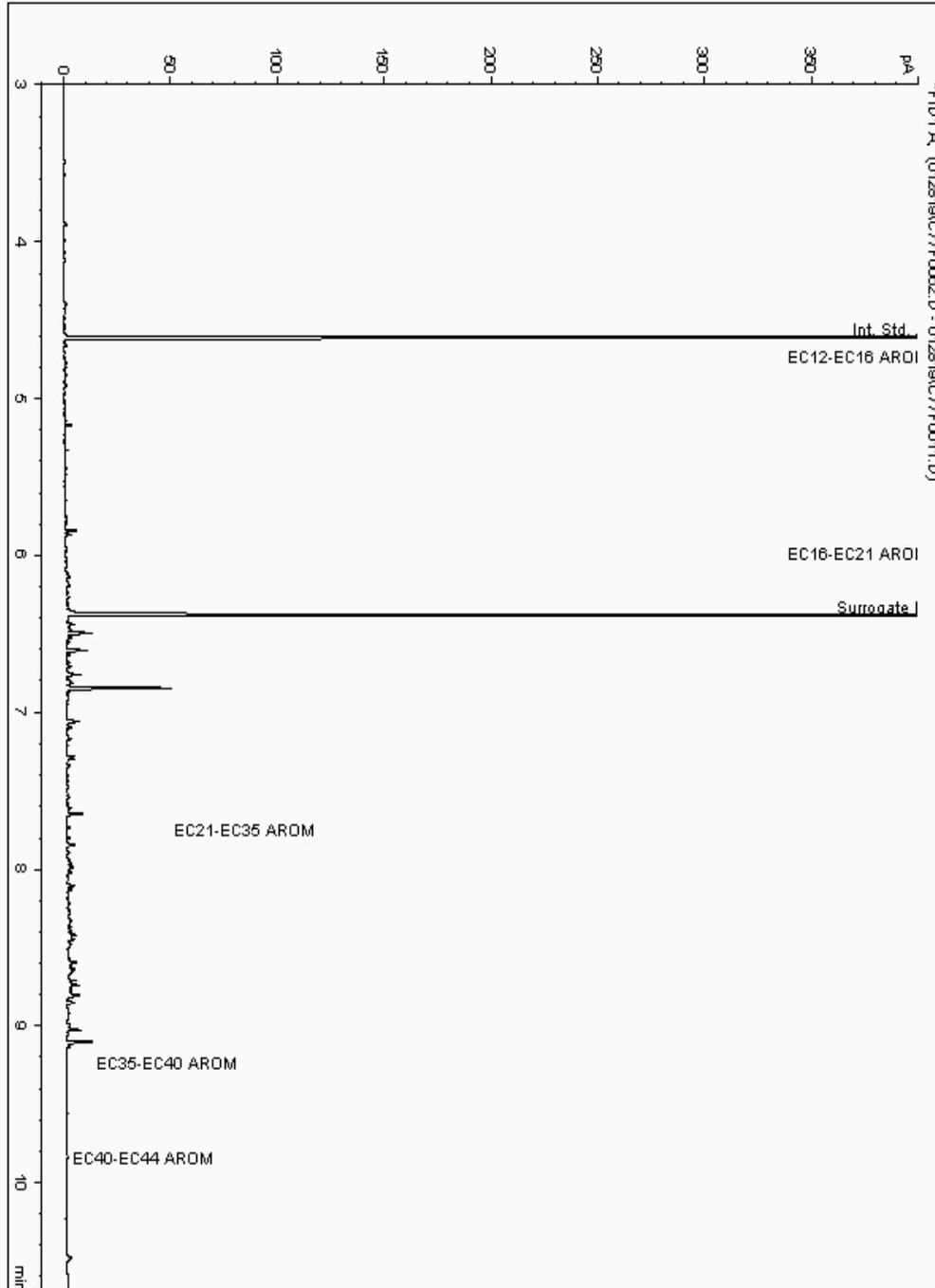
Analysis: EPH CWG (Aromatic) GC (S)
19178560

Sample No :
Sample ID : BH228

19,178,560 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016841-
Date Acquired : 1/29/2019 9:31:16 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

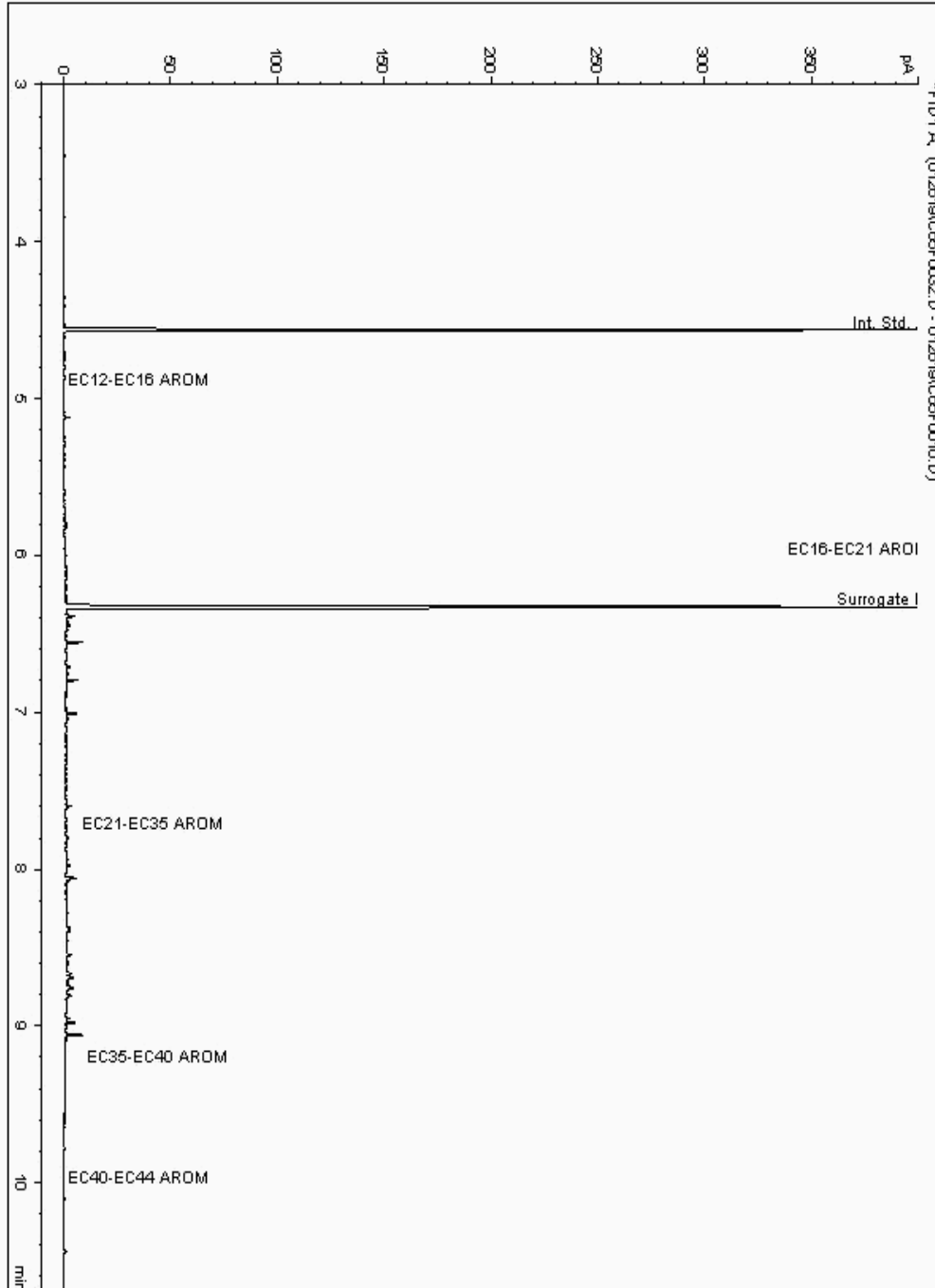
Analysis: EPH CWG (Aromatic) GC (S)
19178569

Sample No :
Sample ID : BH228

19,178,569Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016897-
Date Acquired : 26/01/2019 19:40:28 PM
Units : ppb
Dilution: BH228[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

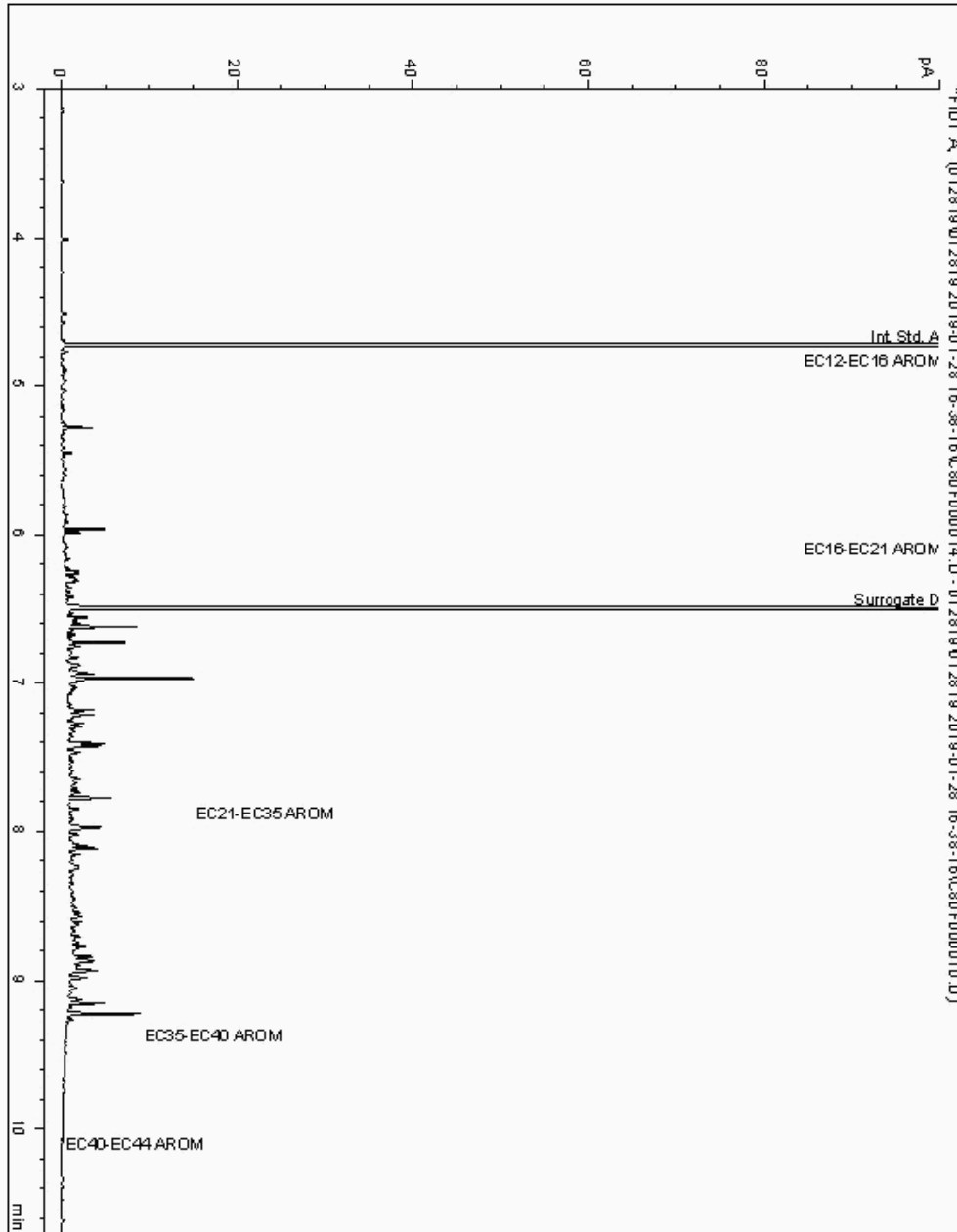
Analysis: EPH CWG (Aromatic) GC (S)
19178659

Sample No :
Sample ID : BH227

19,178,659Depth :2.00 - 3.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016491-
Date Acquired : 28/01/19 20:59:50
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

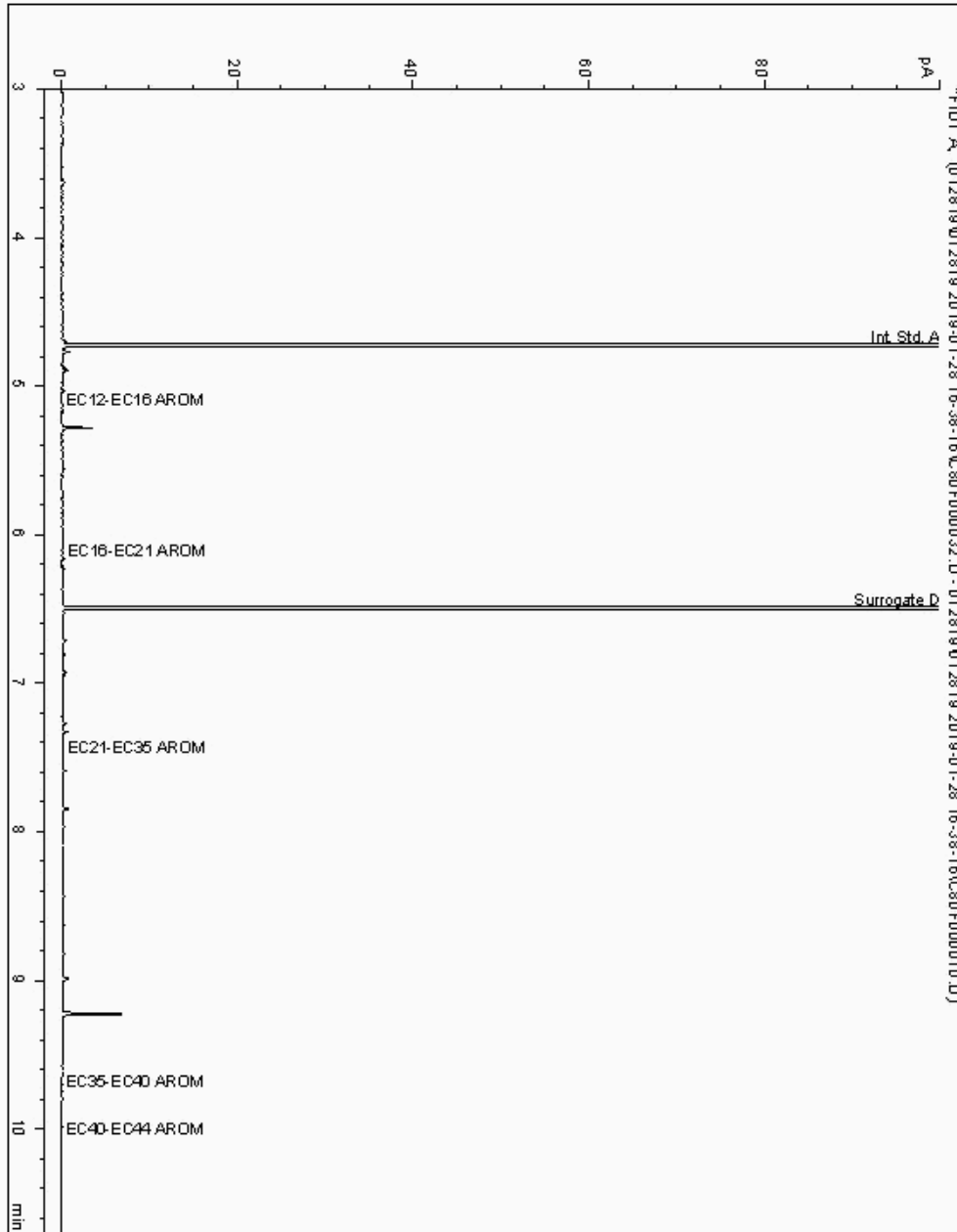
Analysis: EPH CWG (Aromatic) GC (S)
19178699

Sample No :
Sample ID : BH226

19,178,699Depth : 10.00 - 12.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016323-
Date Acquired : 29/01/19 02:21:33
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

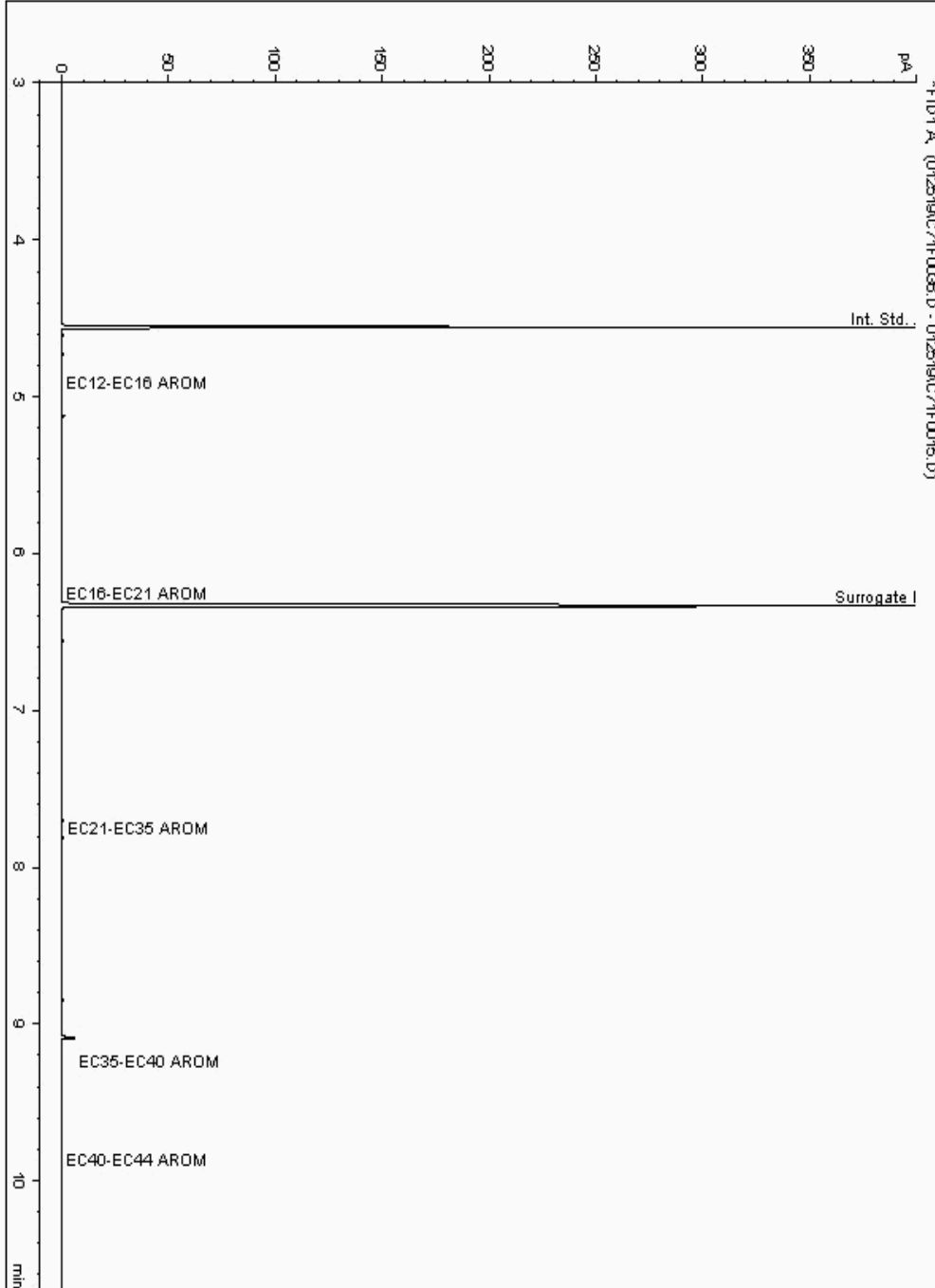
Analysis: EPH CWG (Aromatic) GC (S)
19178810

Sample No :
Sample ID : BH229

19,178,810 Depth : 7.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017310-
Date Acquired : 26/01/2019 01:11:56 PM
Units : ppb
Dilution: BH229[7.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

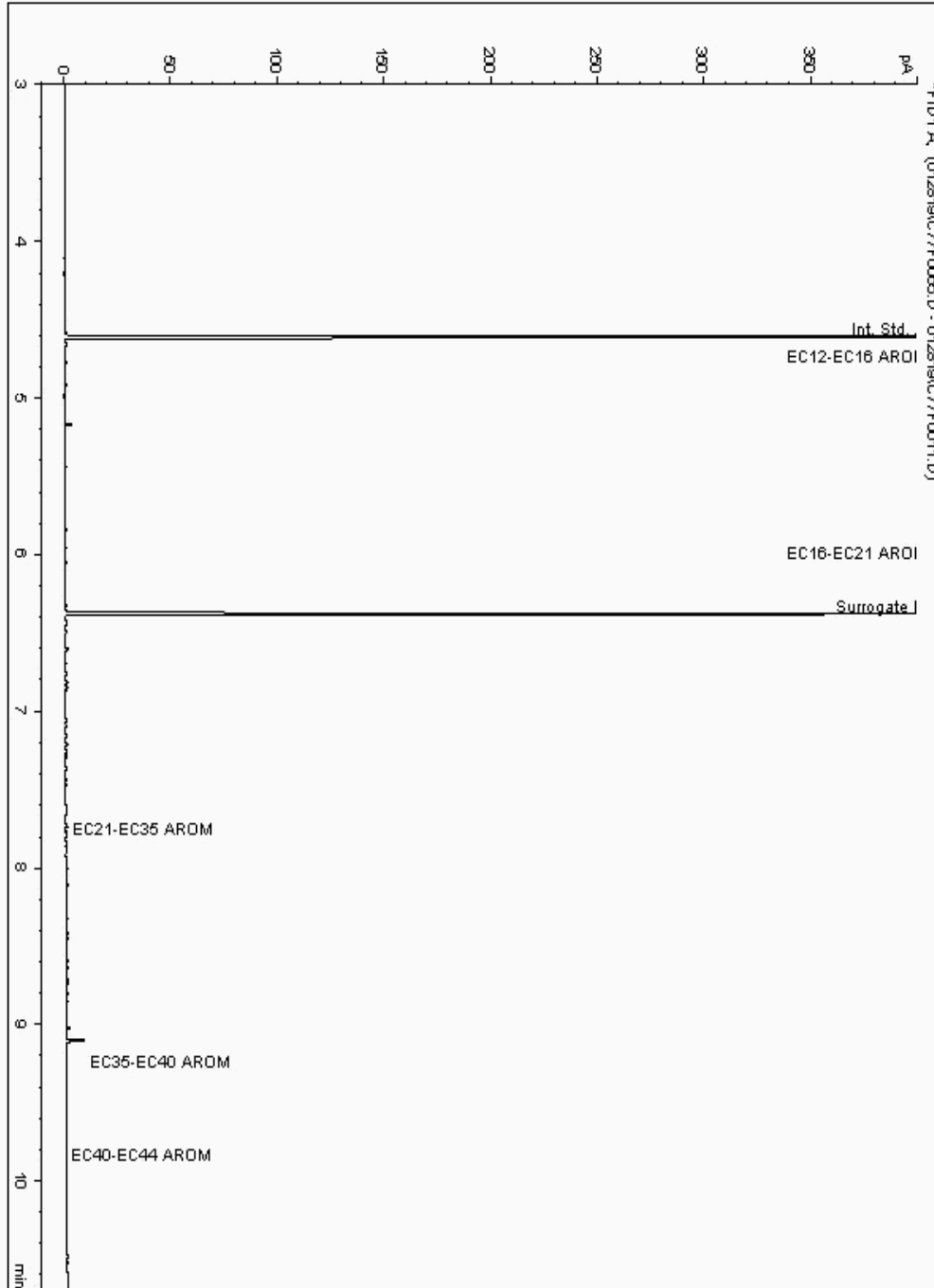
Analysis: EPH CWG (Aromatic) GC (S)
19178829

Sample No :
Sample ID : BH228

19,178,829 Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016923-
Date Acquired : 1/29/2019 10:30:13 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

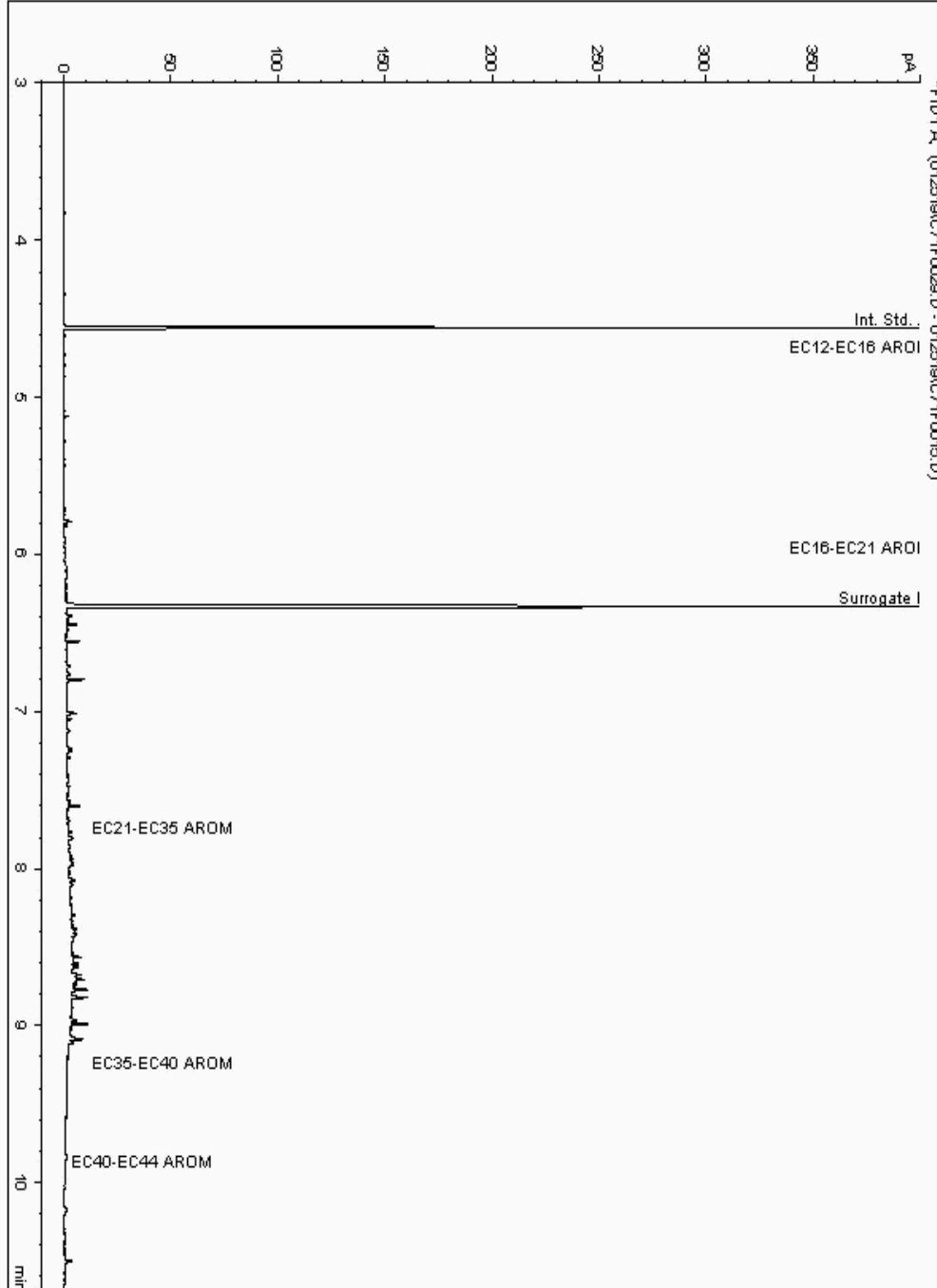
Analysis: EPH CWG (Aromatic) GC (S)
19178866

Sample No :
Sample ID : BH229

19,178,866Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017233-
Date Acquired : 25/01/2019 23:05:35 PM
Units : ppb
Dilution: BH229[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

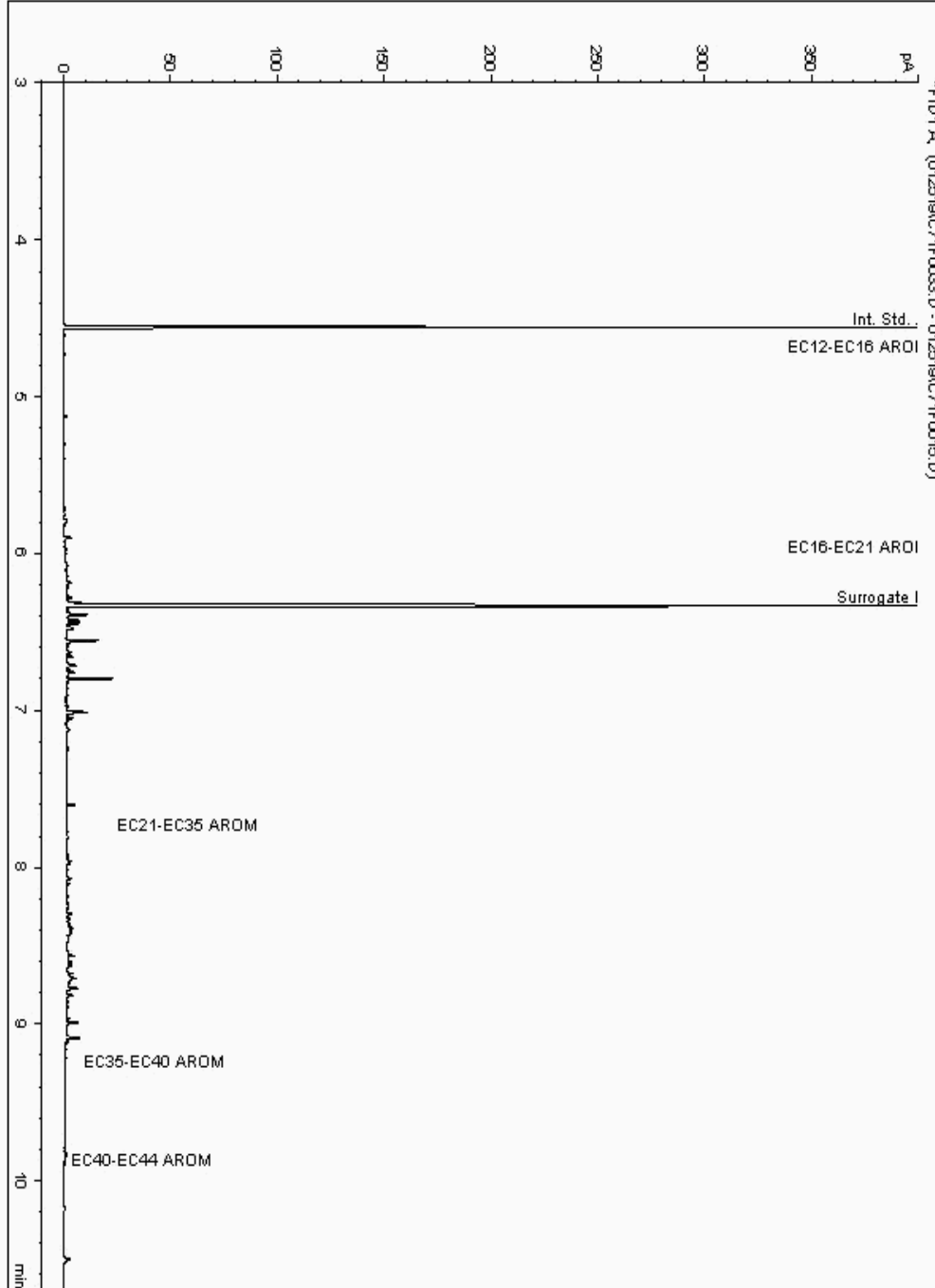
Analysis: EPH CWG (Aromatic) GC (S)
19178921

Sample No :
Sample ID : BH229

19,178,921 Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017288-
Date Acquired : 26/01/2019 00:18:47 PM
Units : ppb
Dilution: BH229[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

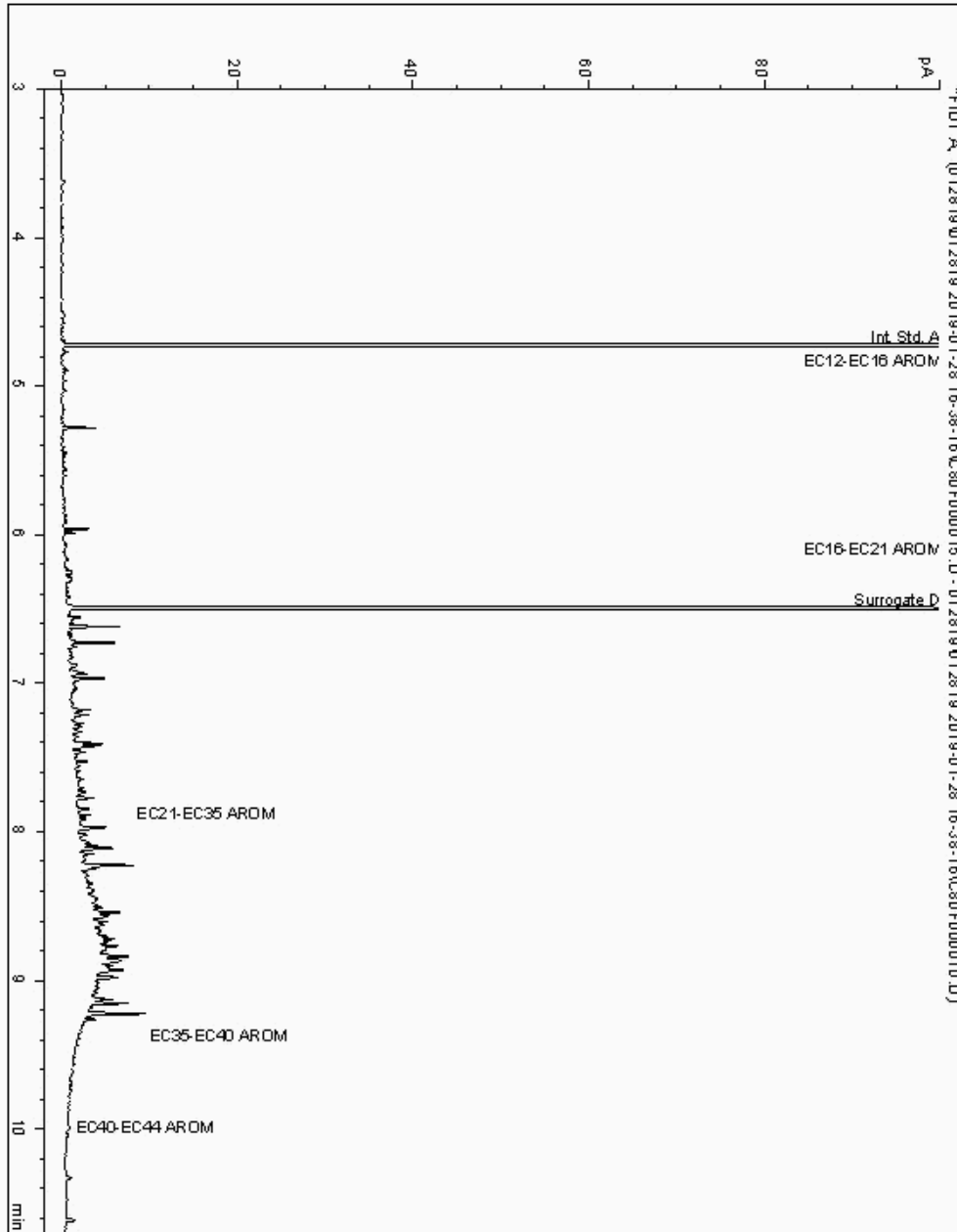
Analysis: EPH CWG (Aromatic) GC (S)
19178934

Sample No :
Sample ID : BH229

19,178,934Depth : 1.00 - 2.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18017167-
Date Acquired : 28/01/19 21:19:47
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

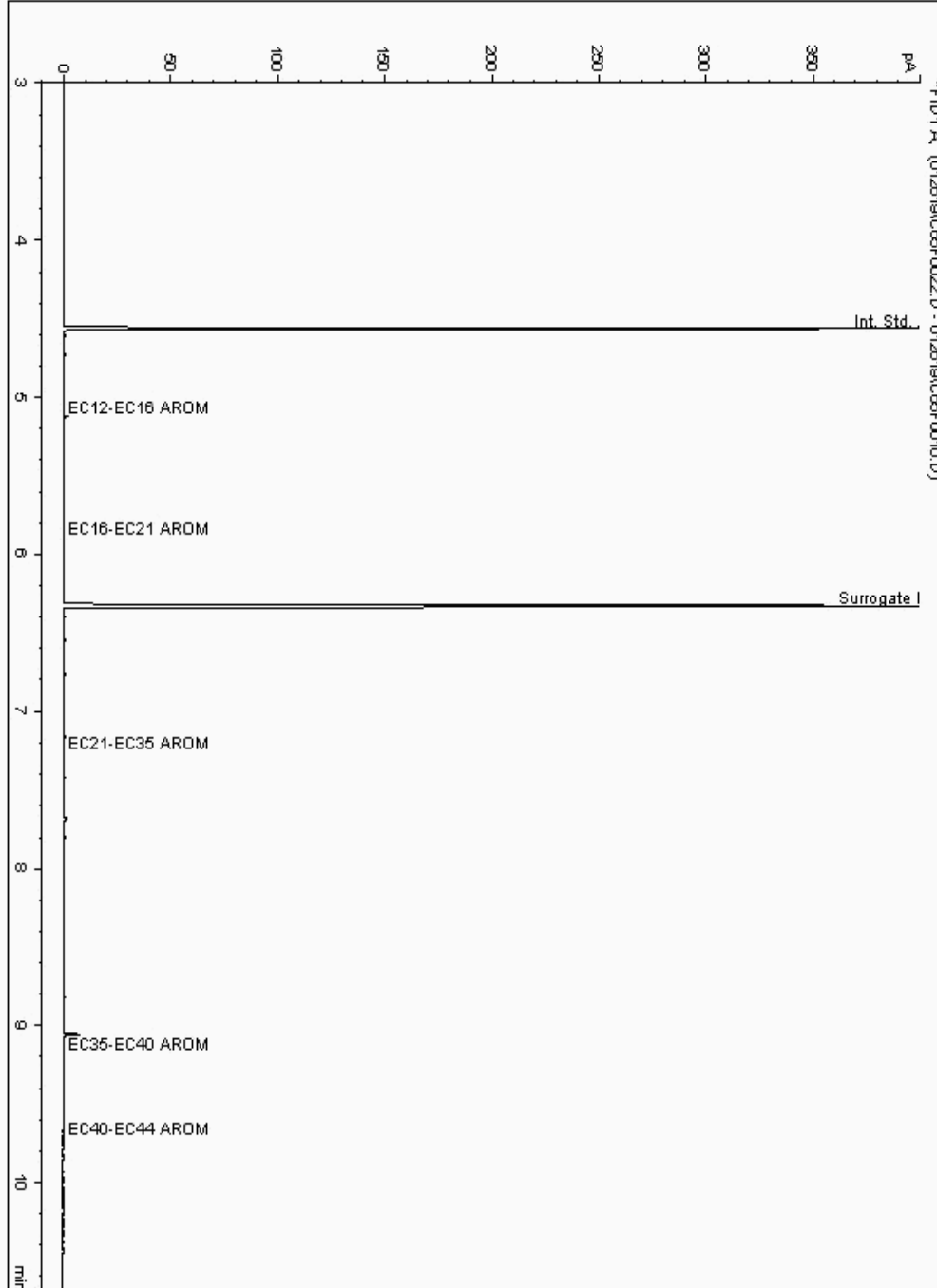
Analysis: EPH CWG (Aromatic) GC (S)
19178976

Sample No :
Sample ID : BH226

19,178,976Depth :8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016268-
Date Acquired : 26/01/2019 16:48:31 PM
Units : ppb
Dilution: BH226[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

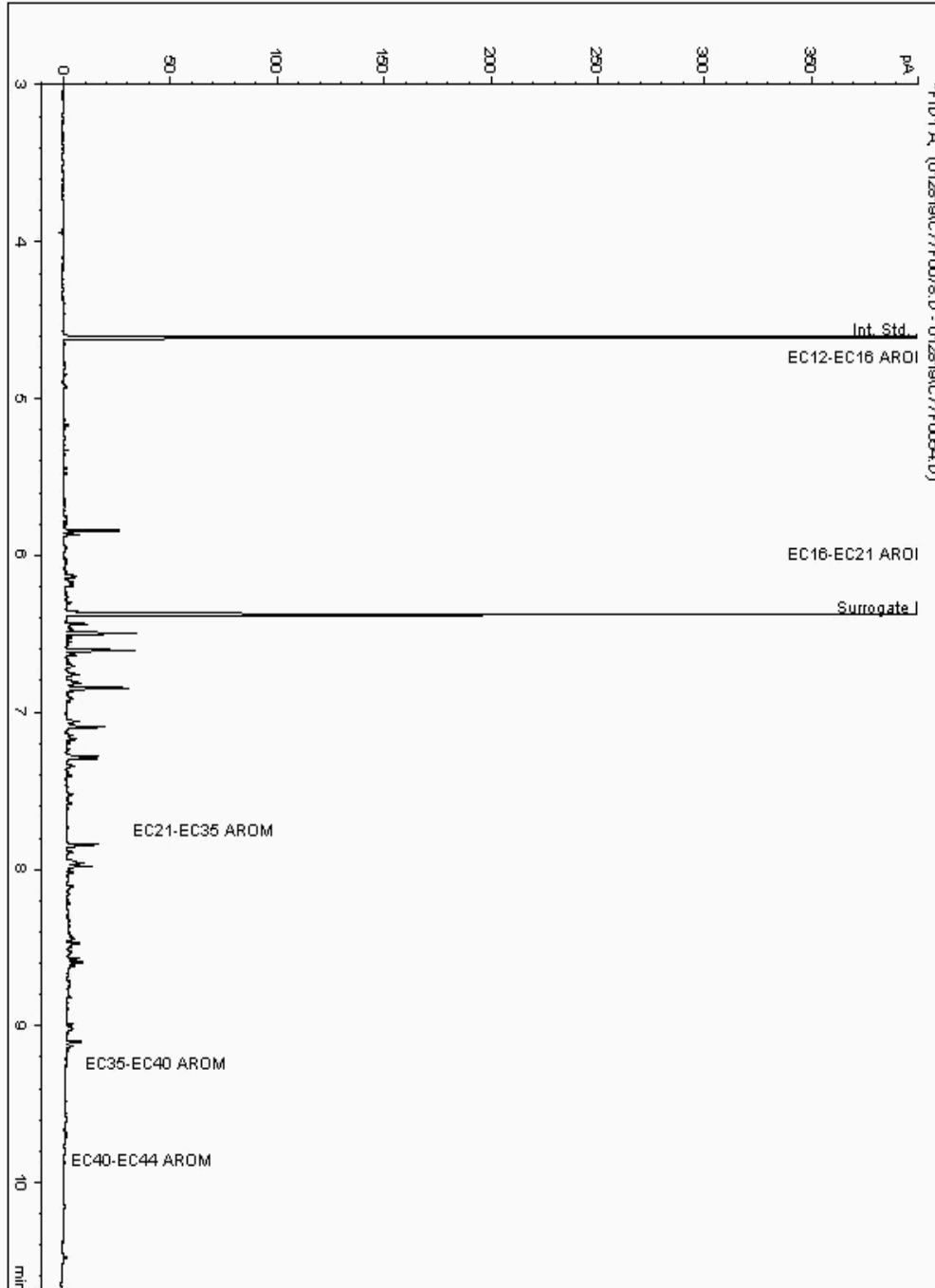
Analysis: EPH CWG (Aromatic) GC (S)
19178986

Sample No :
Sample ID : BH228

19,178,986Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016751-
Date Acquired : 1/29/2019 2:18:45 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

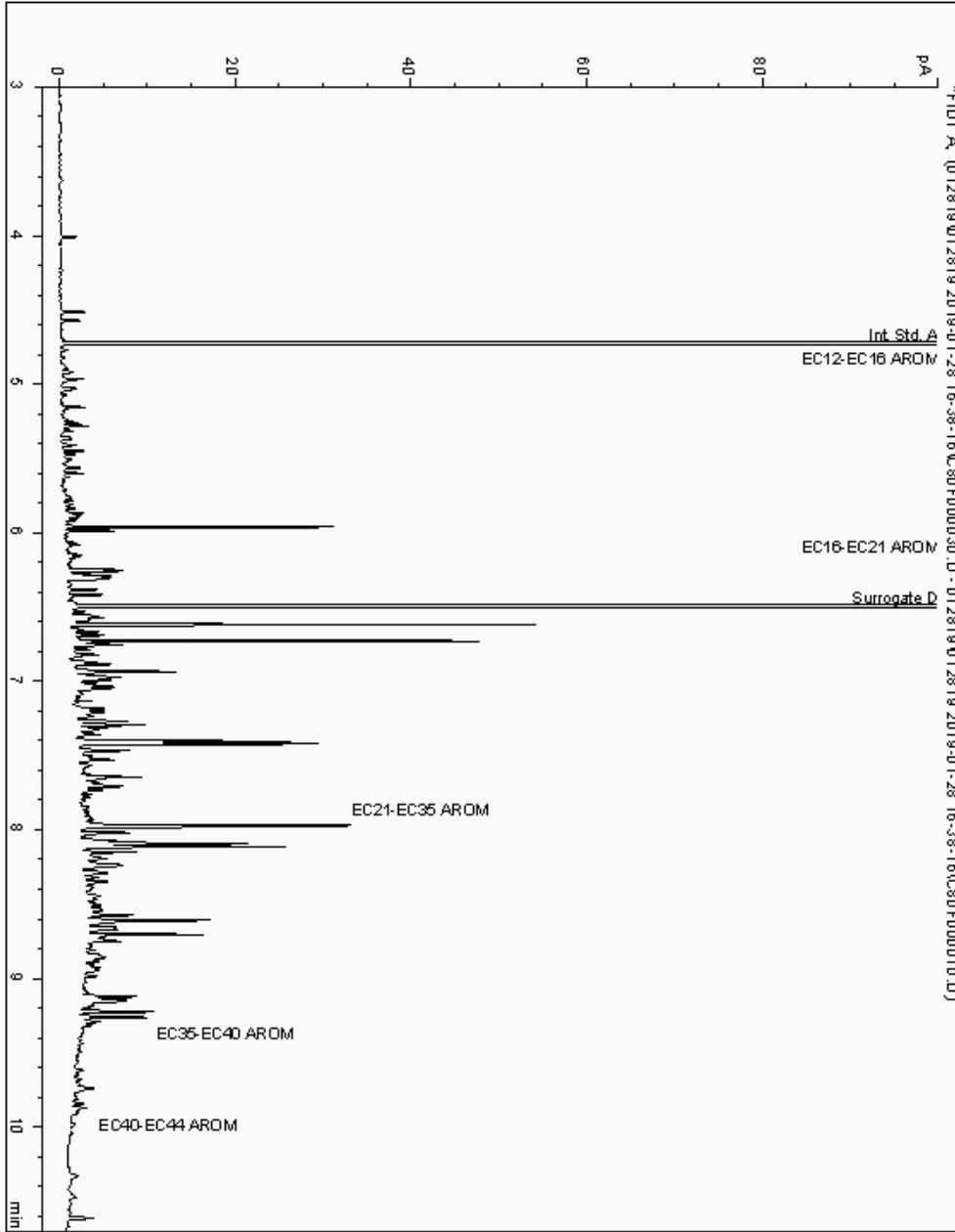
Analysis: EPH CWG (Aromatic) GC (S)
19179034

Sample No :
Sample ID : BH229

19,179,034Depth : 0.00 - 0.50

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18017111-
Date Acquired : 29/01/19 01:49:17
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

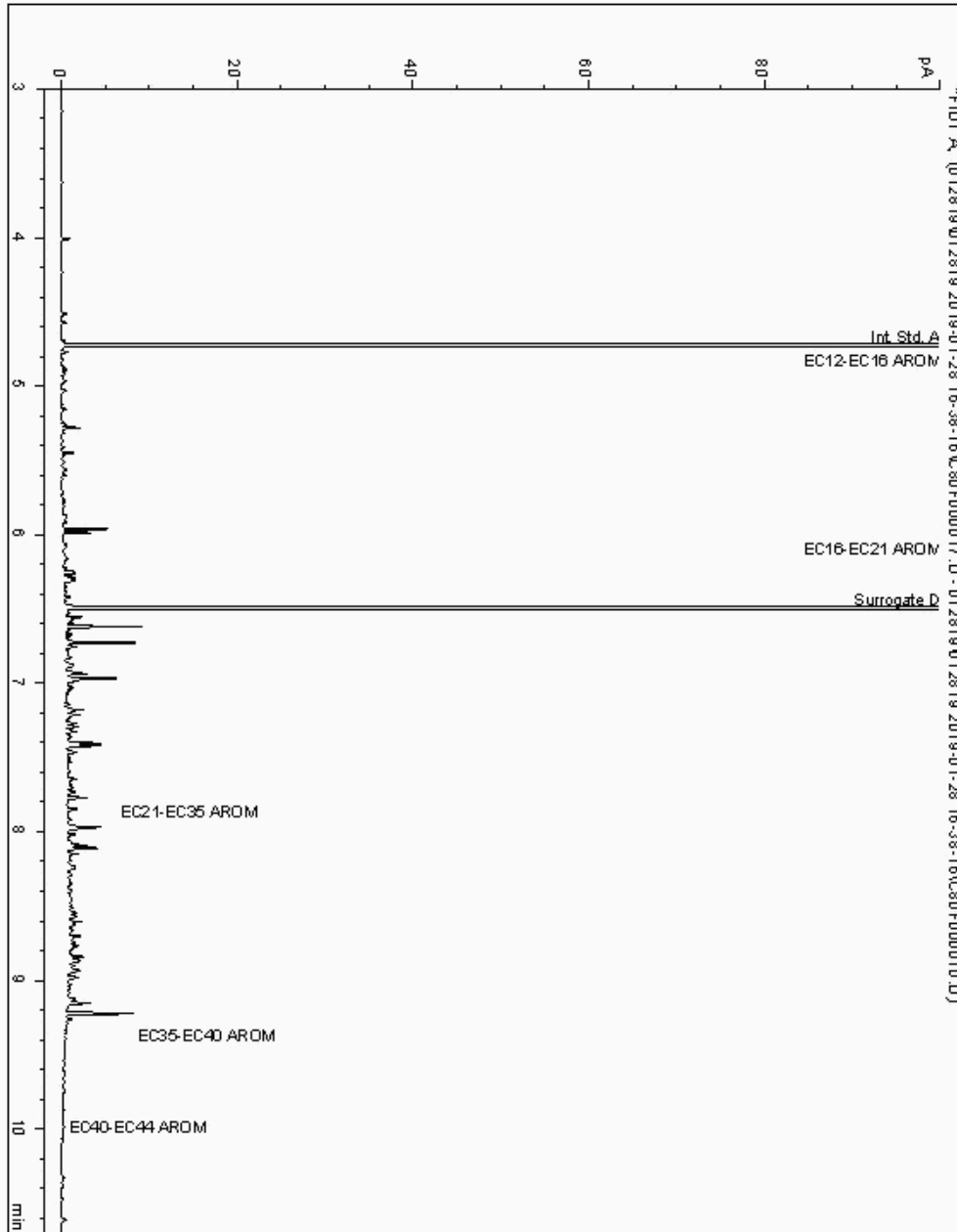
Analysis: EPH CWG (Aromatic) GC (S)
19179096

Sample No :
Sample ID : BH226

19,179,096Depth :2.00 - 3.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016170-
Date Acquired : 28/01/19 21:51:42
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

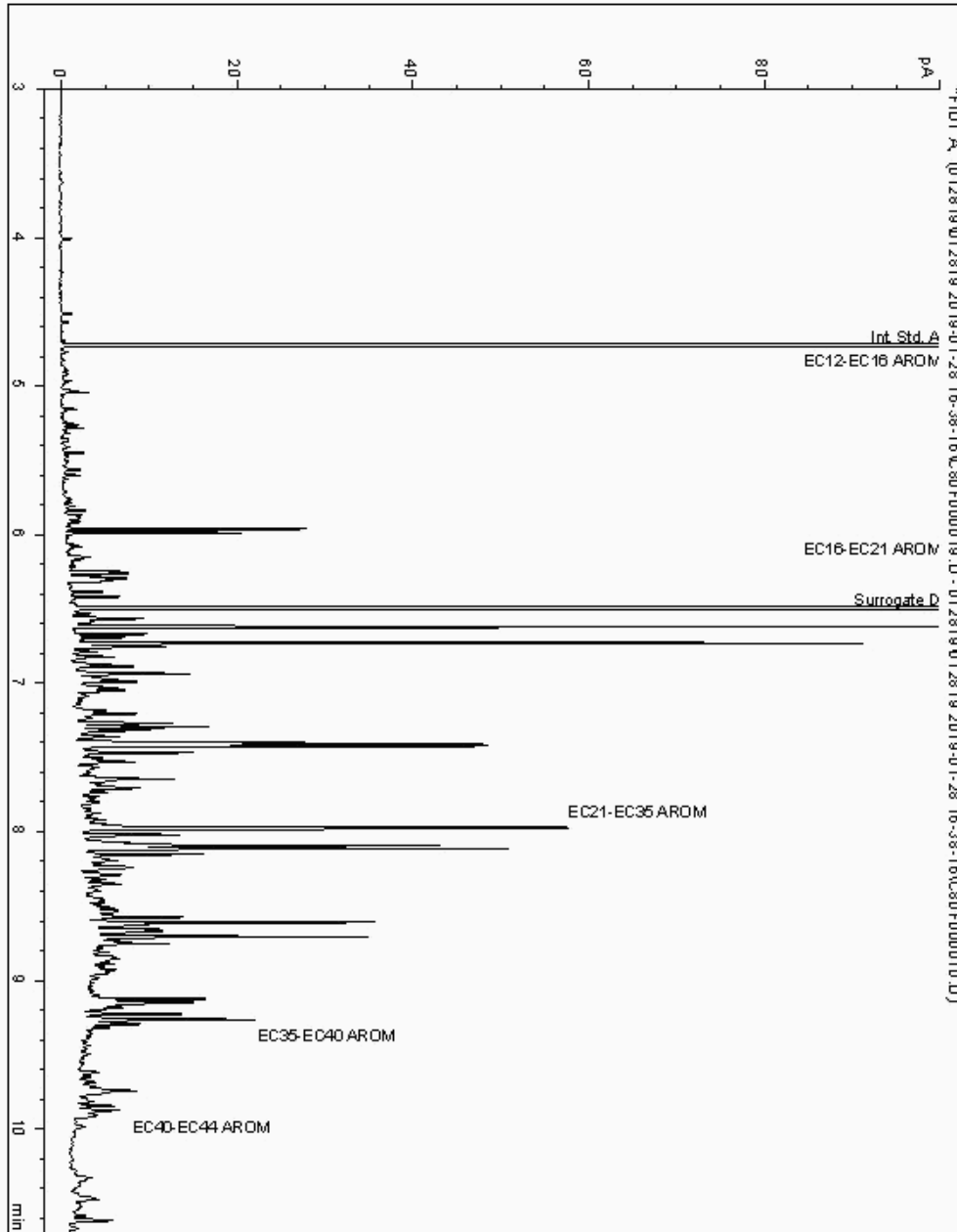
Analysis: EPH CWG (Aromatic) GC (S)
19179103

Sample No :
Sample ID : BH226

19,179,103Depth : 0.00 - 0.50

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016088-
Date Acquired : 28/01/19 22:32:01
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

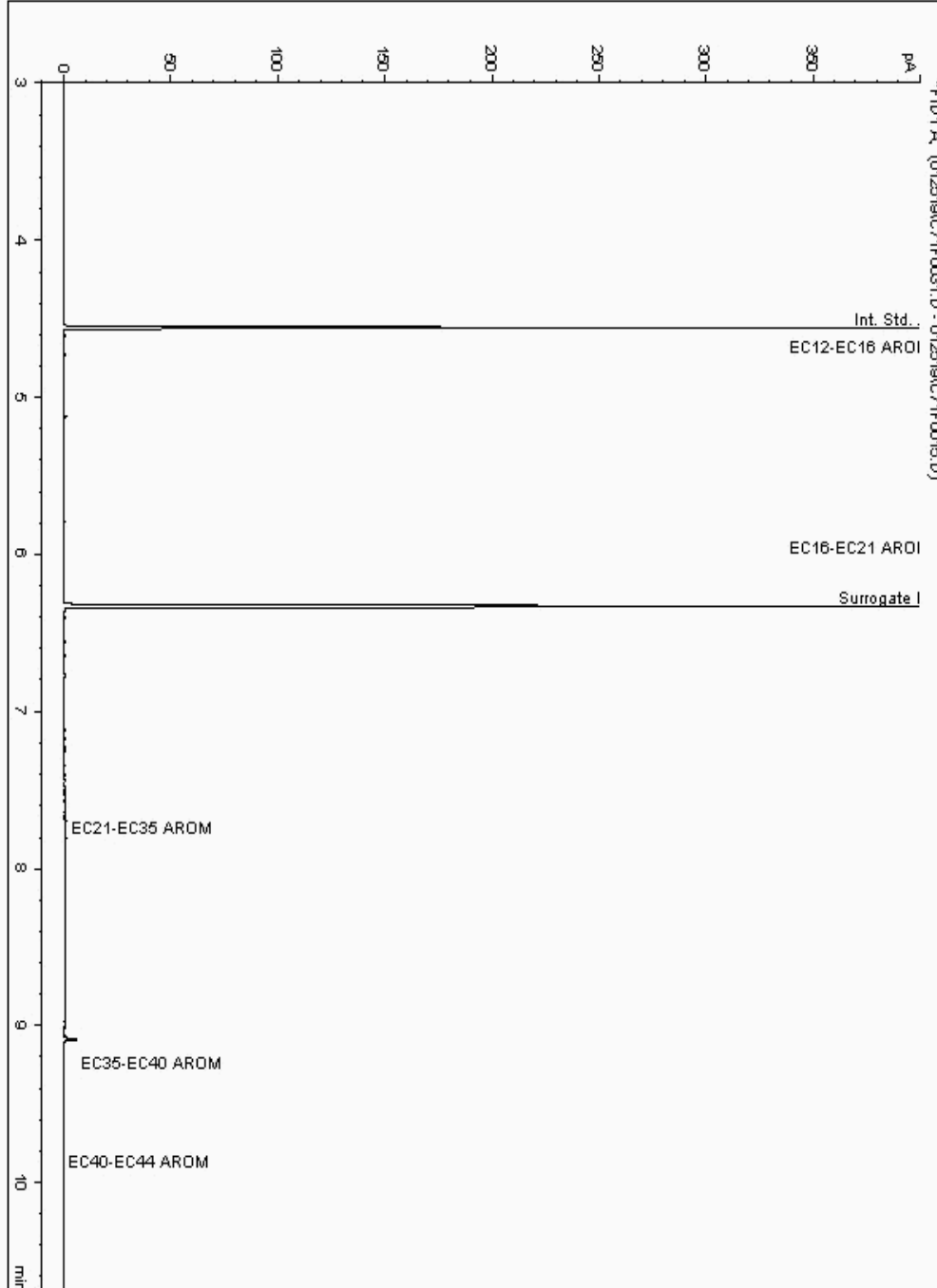
Analysis: EPH CWG (Aromatic) GC (S)
19179121

Sample No :
Sample ID : BH226

19,179,121 Depth : 15.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016372-
Date Acquired : 25/01/2019 23:37:57 PM
Units : ppb
Dilution: BH226[15.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

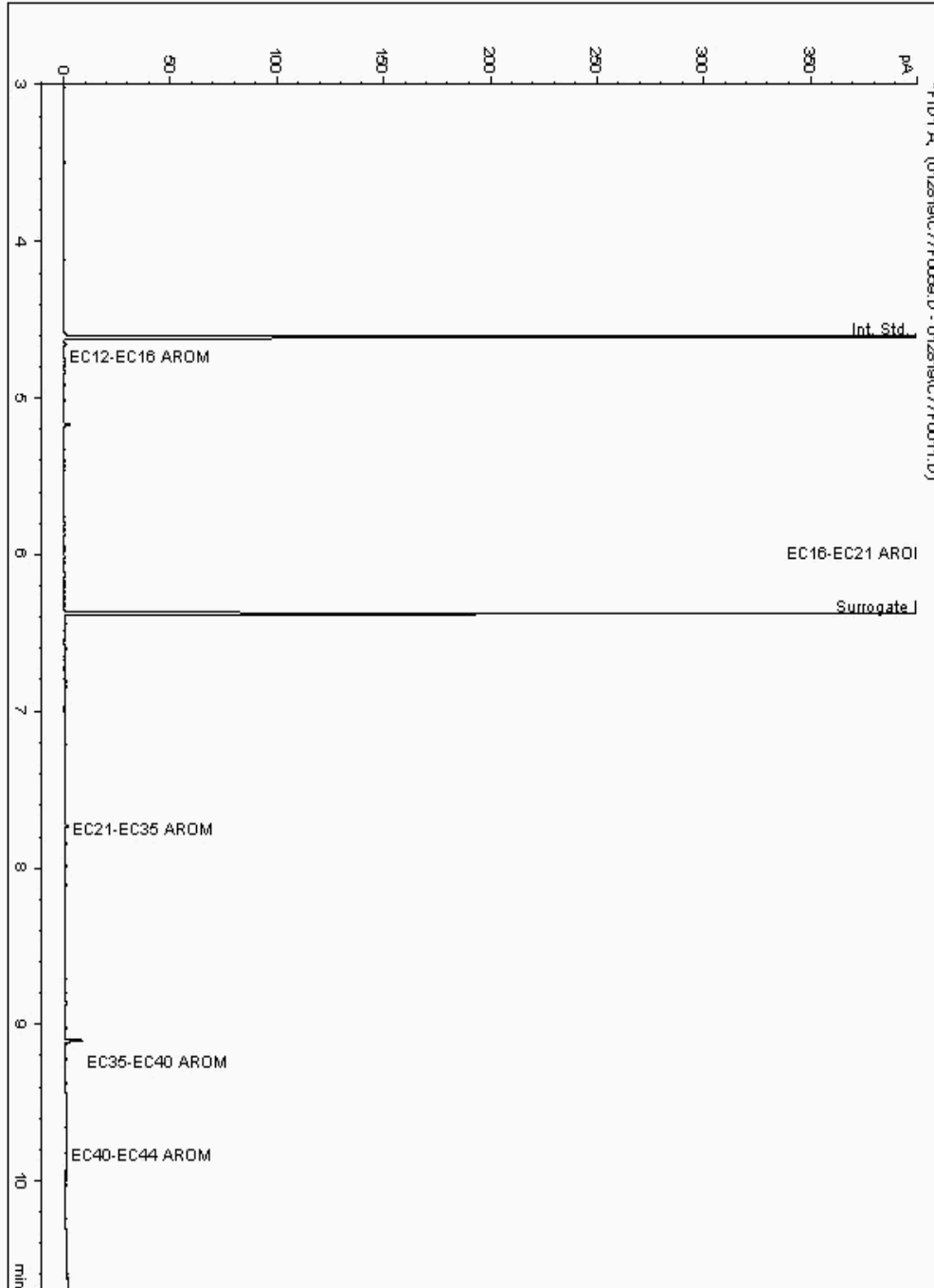
Analysis: EPH CWG (Aromatic) GC (S)
19179187

Sample No :
Sample ID : BH227

19,179,187Depth :8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016615-
Date Acquired : 1/29/2019 8:30:54 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

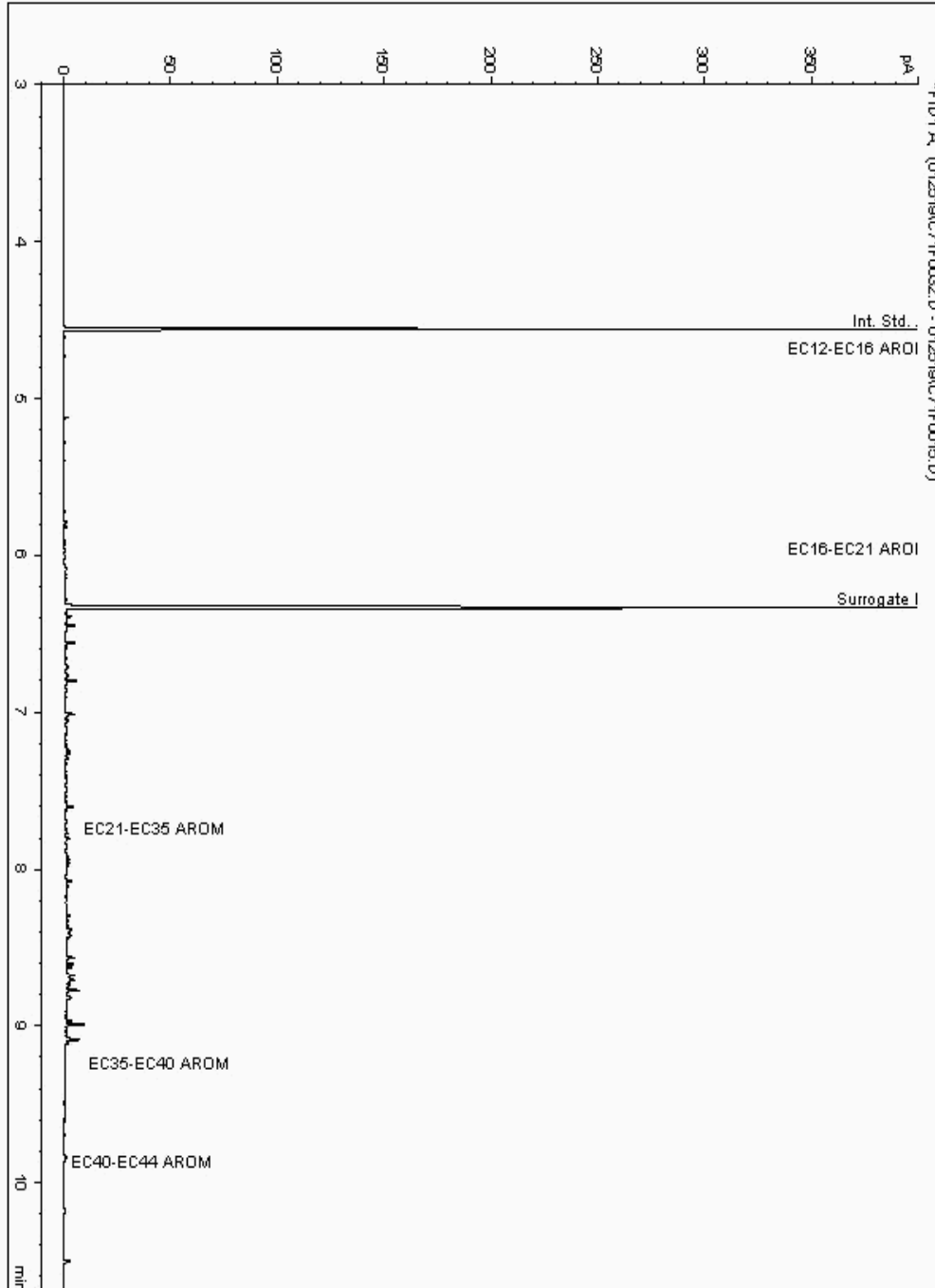
Analysis: EPH CWG (Aromatic) GC (S)
19179216

Sample No :
Sample ID : BH227

19,179,216 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016461-
Date Acquired : 25/01/2019 23:58:30 PM
Units : ppb
Dilution: BH227[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

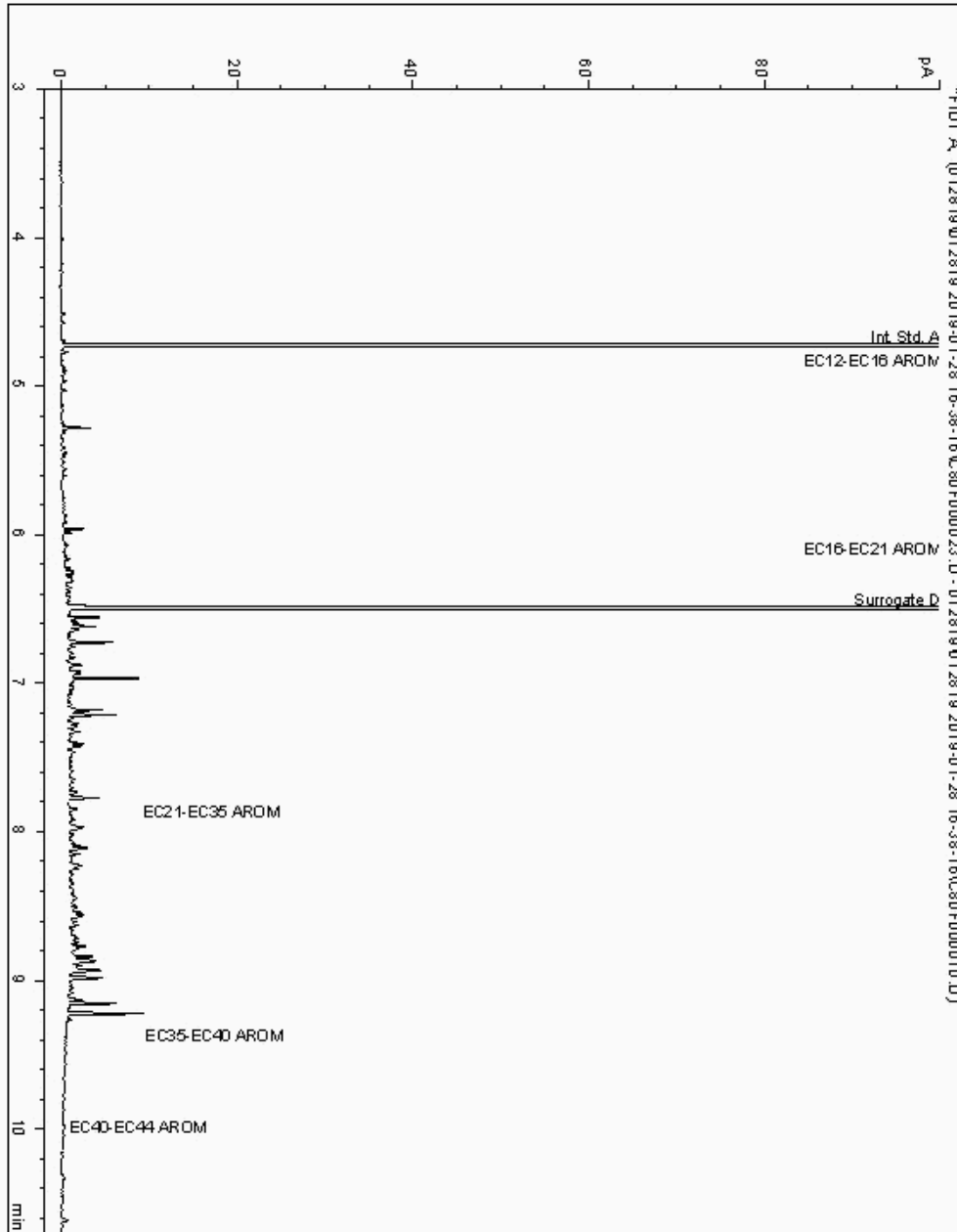
Analysis: EPH CWG (Aromatic) GC (S)
19179247

Sample No :
Sample ID : BH226

19,179,247Depth :4.30 - 5.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016216-
Date Acquired : 28/01/19 23:44:41
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

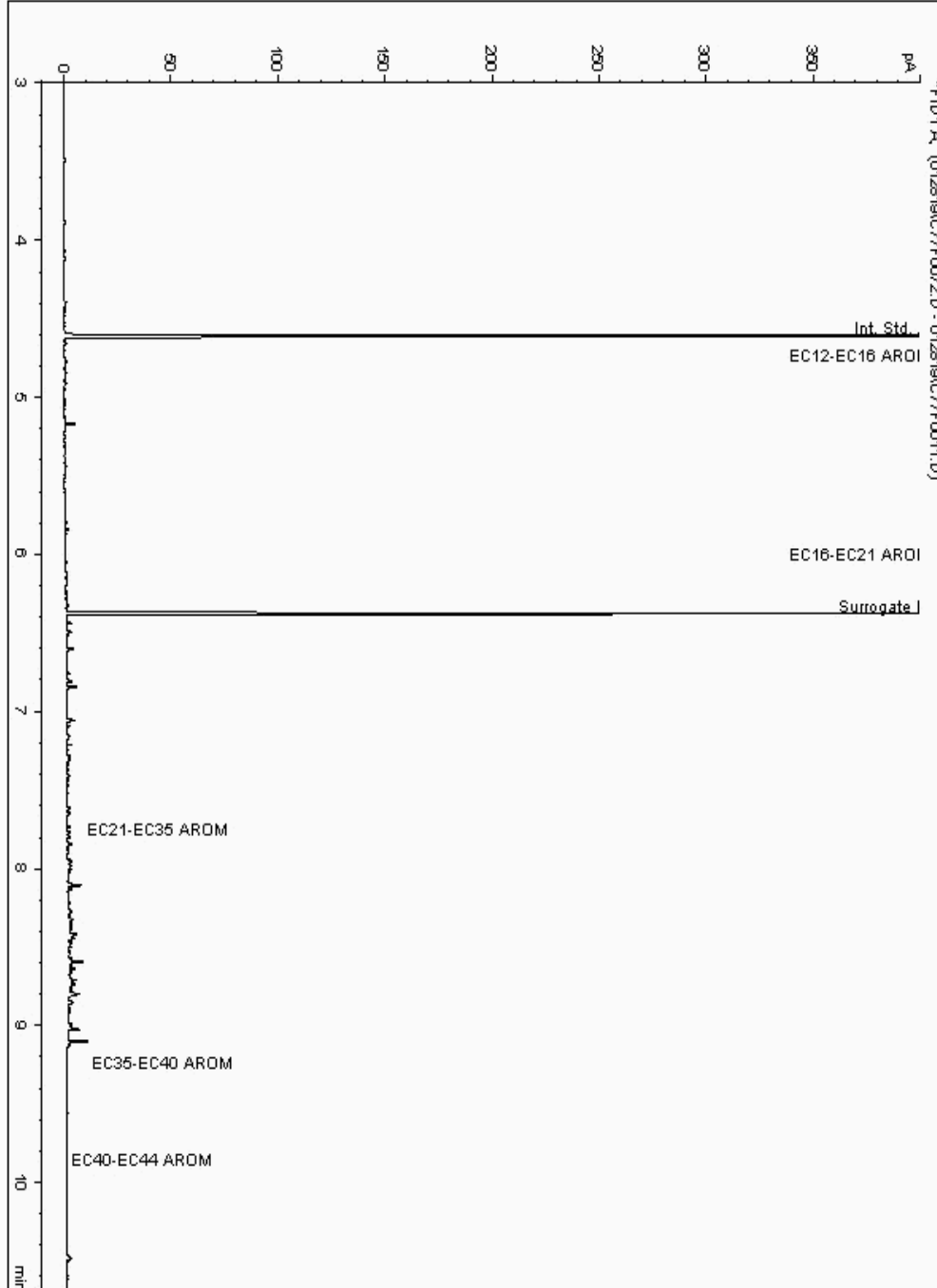
Analysis: EPH CWG (Aromatic) GC (S)
19179263

Sample No :
Sample ID : BH227

19,179,263Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016432-
Date Acquired : 1/29/2019 12:34:12 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

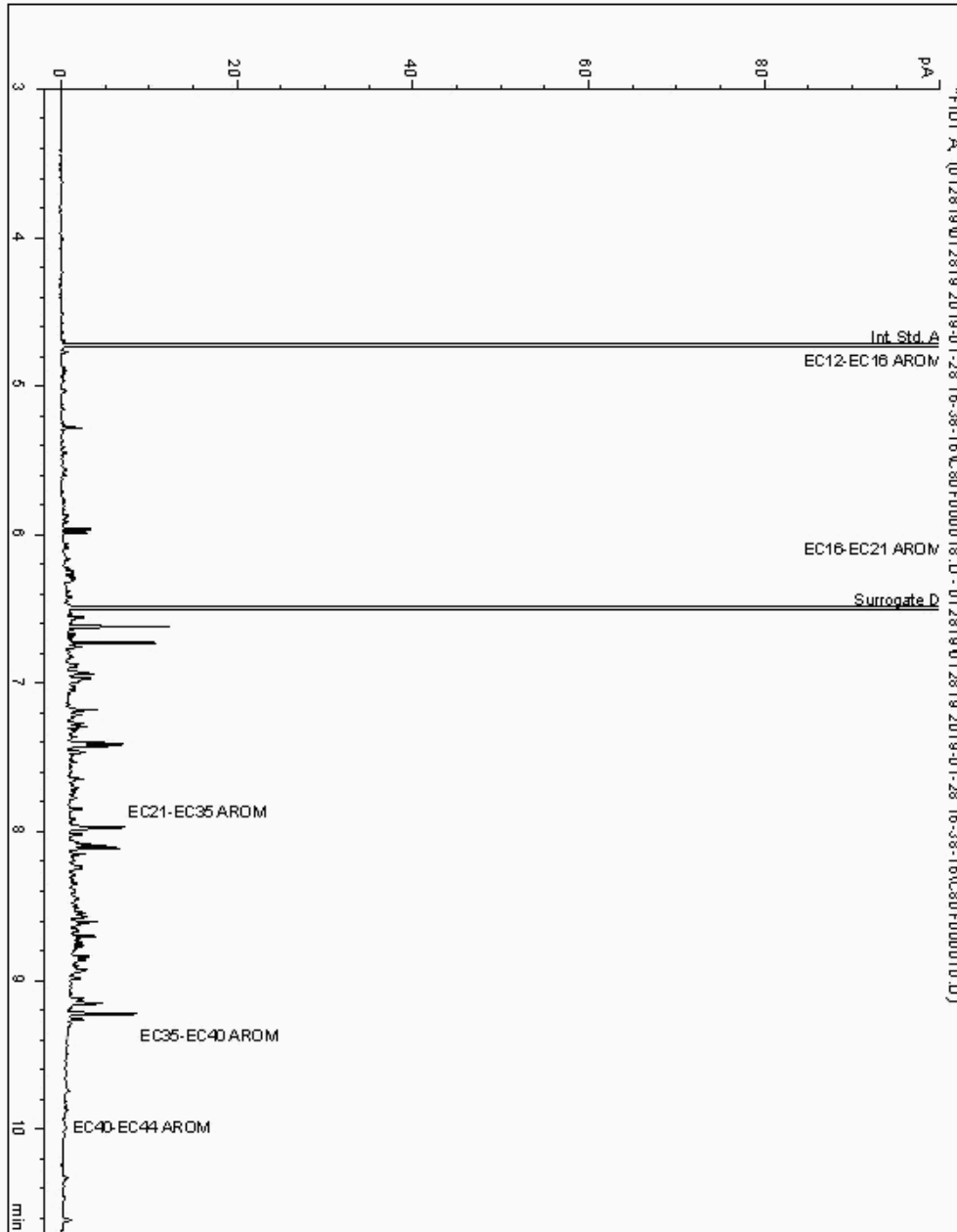
Analysis: EPH CWG (Aromatic) GC (S)
19179271

Sample No :
Sample ID : BH226

19,179,271 Depth : 1.00 - 2.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016148-
Date Acquired : 28/01/19 22:11:58
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

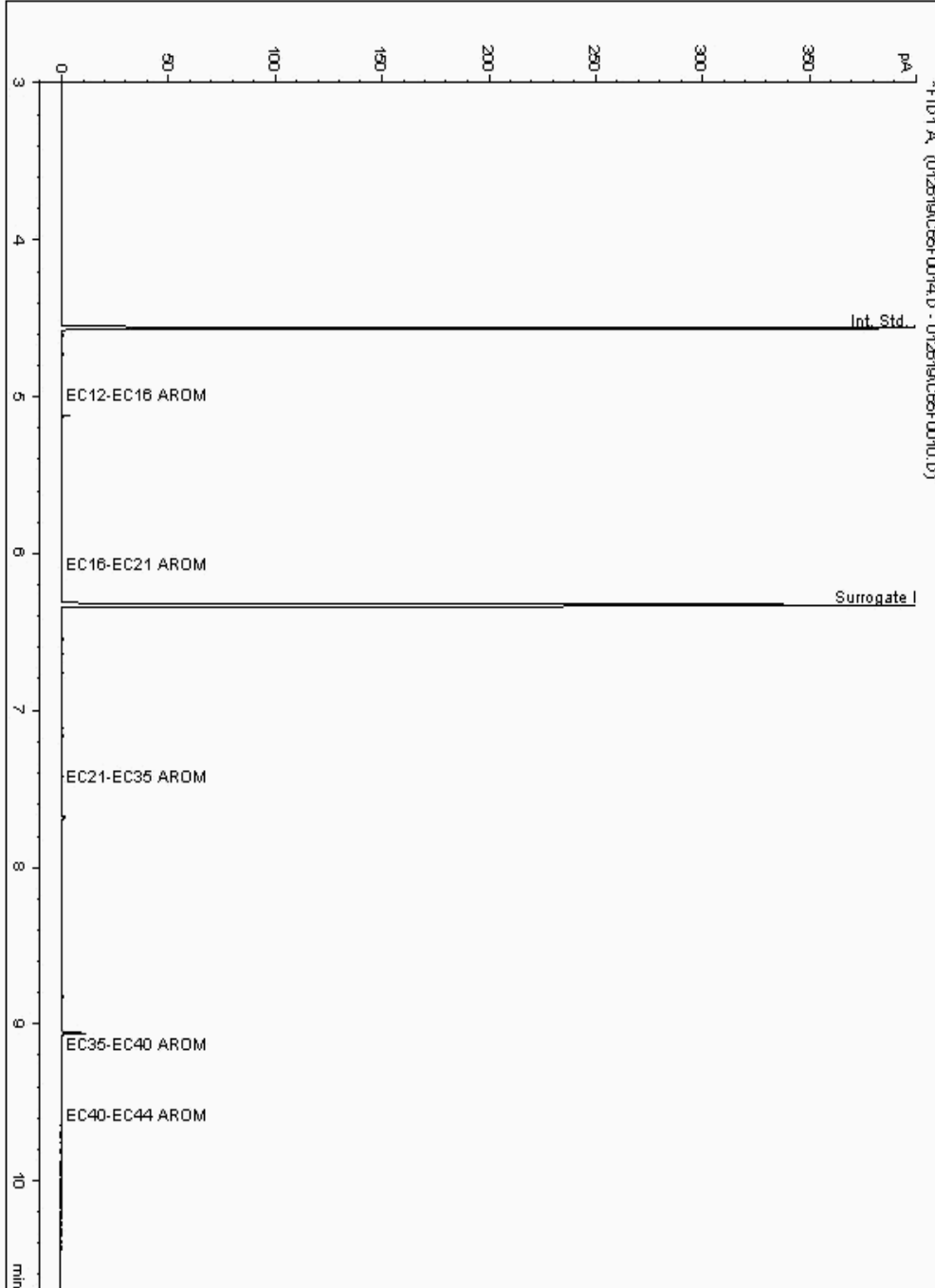
Analysis: EPH CWG (Aromatic) GC (S)
19179283

Sample No :
Sample ID : BH227

19,179,283Depth :9.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016642-
Date Acquired : 26/01/2019 14:11:50 PM
Units : ppb
Dilution: BH227[9.00 - 11.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

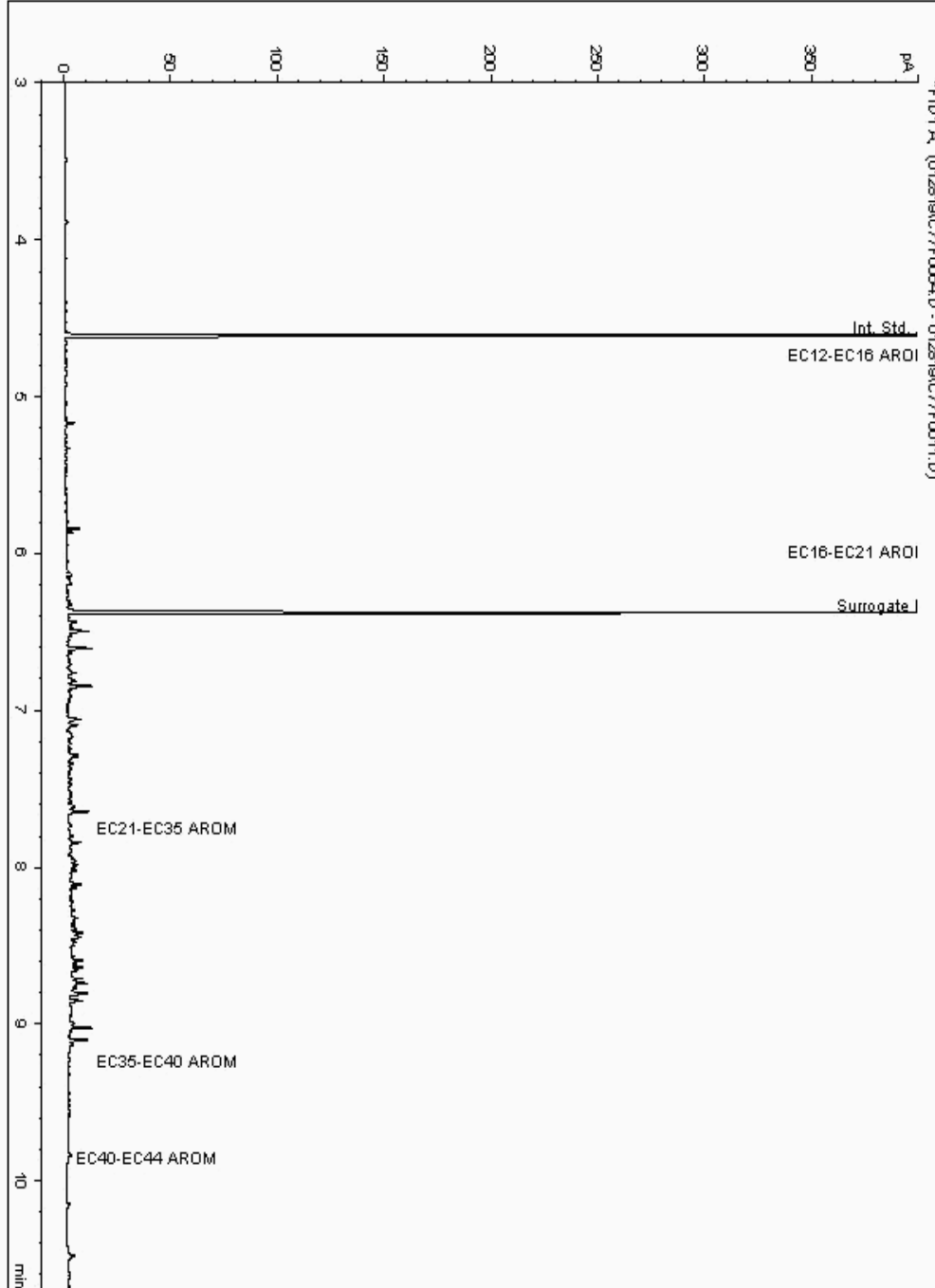
Analysis: EPH CWG (Aromatic) GC (S)
19179341

Sample No :
Sample ID : BH226

19,179,341 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016193-
Date Acquired : 1/29/2019 10:09:59 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

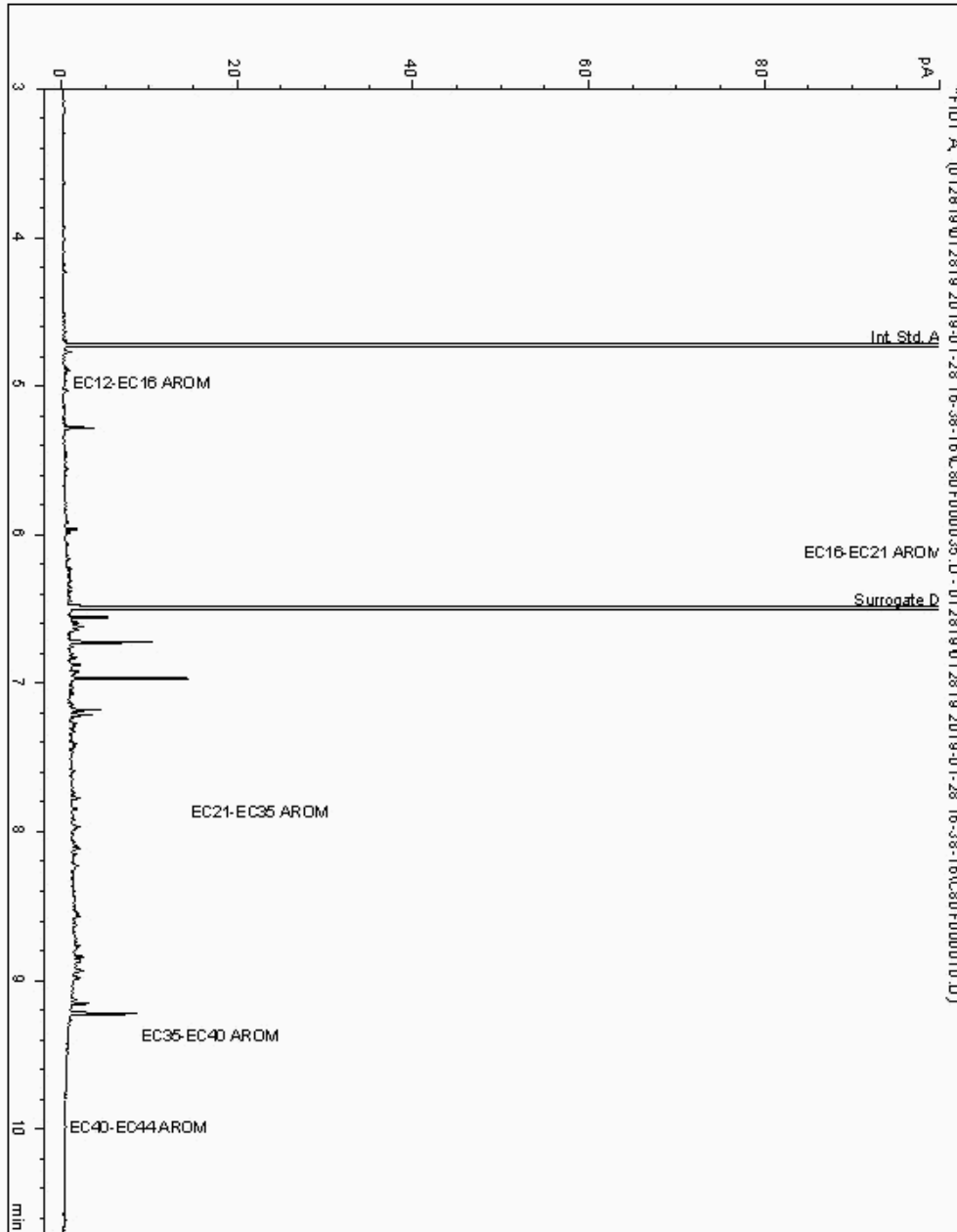
Analysis: EPH CWG (Aromatic) GC (S)
19179358

Sample No :
Sample ID : BH227

19,179,358 Depth : 6.00 - 7.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016592-
Date Acquired : 29/01/19 03:14:14
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

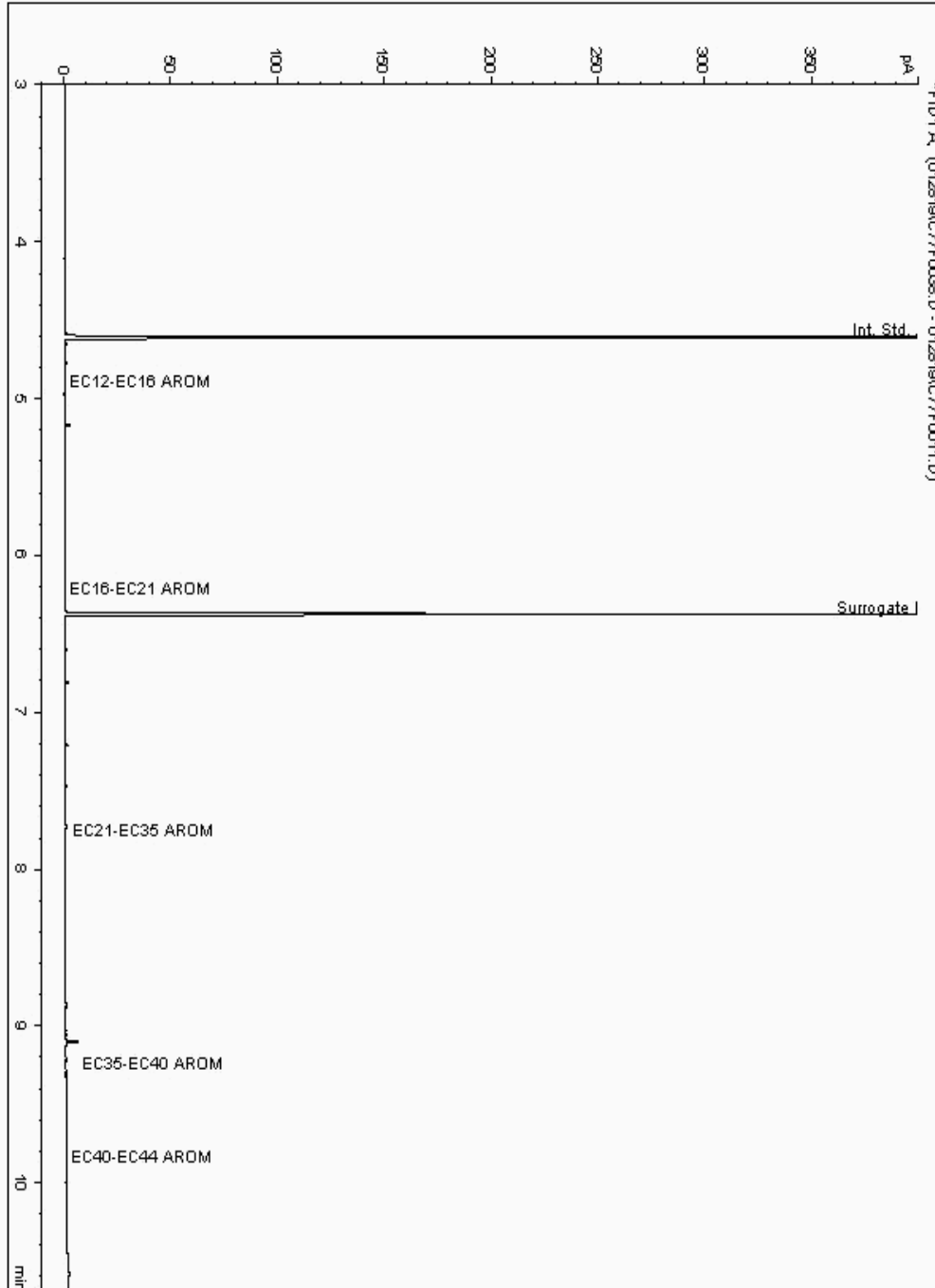
Analysis: EPH CWG (Aromatic) GC (S)
19179437

Sample No :
Sample ID : BH229

19,179,437Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017333-
Date Acquired : 1/29/2019 2:26:15 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

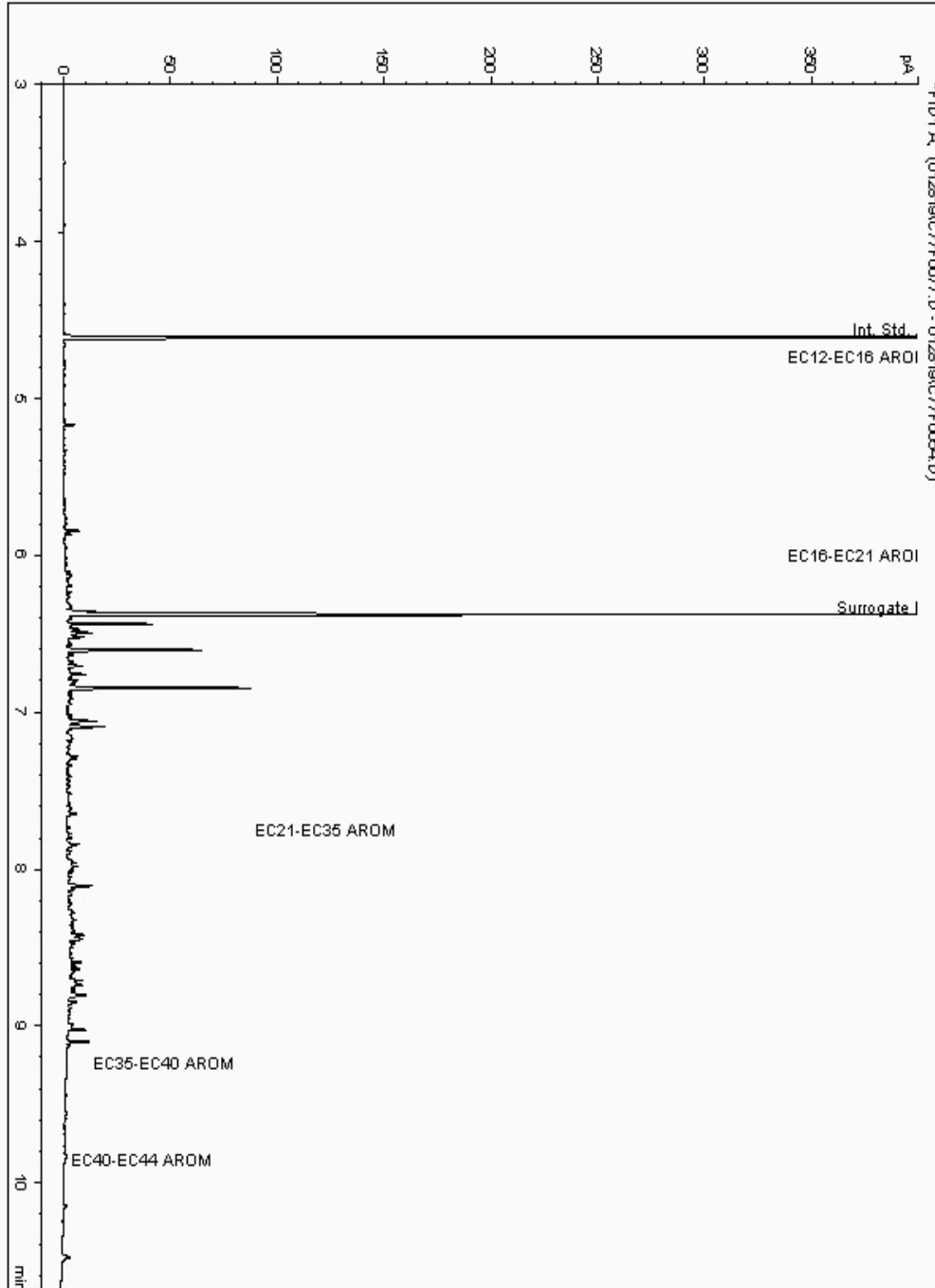
Analysis: EPH CWG (Aromatic) GC (S)
19179558

Sample No :
Sample ID : BH227

19,179,558 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016546-
Date Acquired : 1/29/2019 1:58:25 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

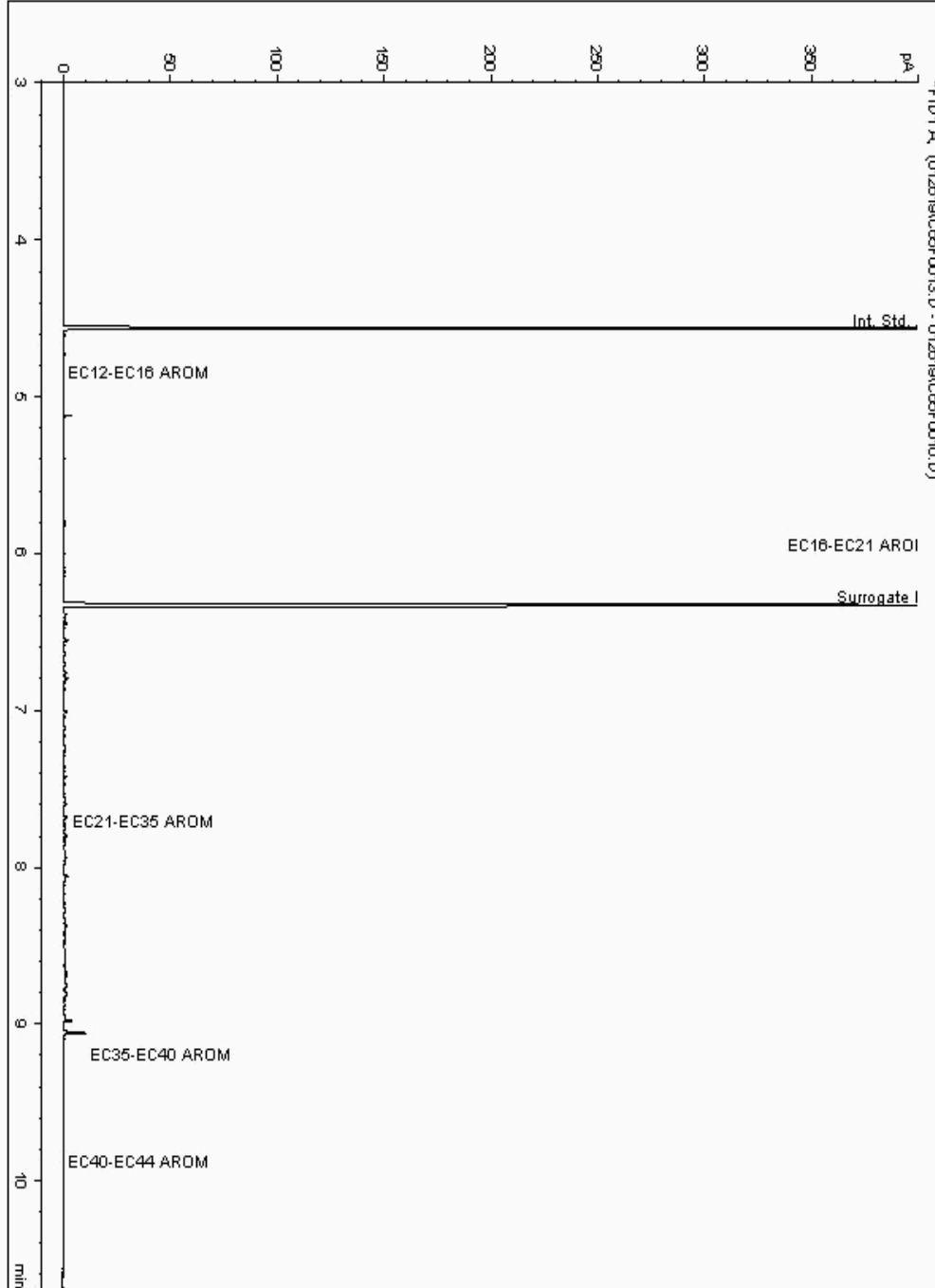
Analysis: EPH CWG (Aromatic) GC (S)
19179603

Sample No :
Sample ID : BH226

19,179,603Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016239-
Date Acquired : 26/01/2019 13:50:36 PM
Units : ppb
Dilution: BH226[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

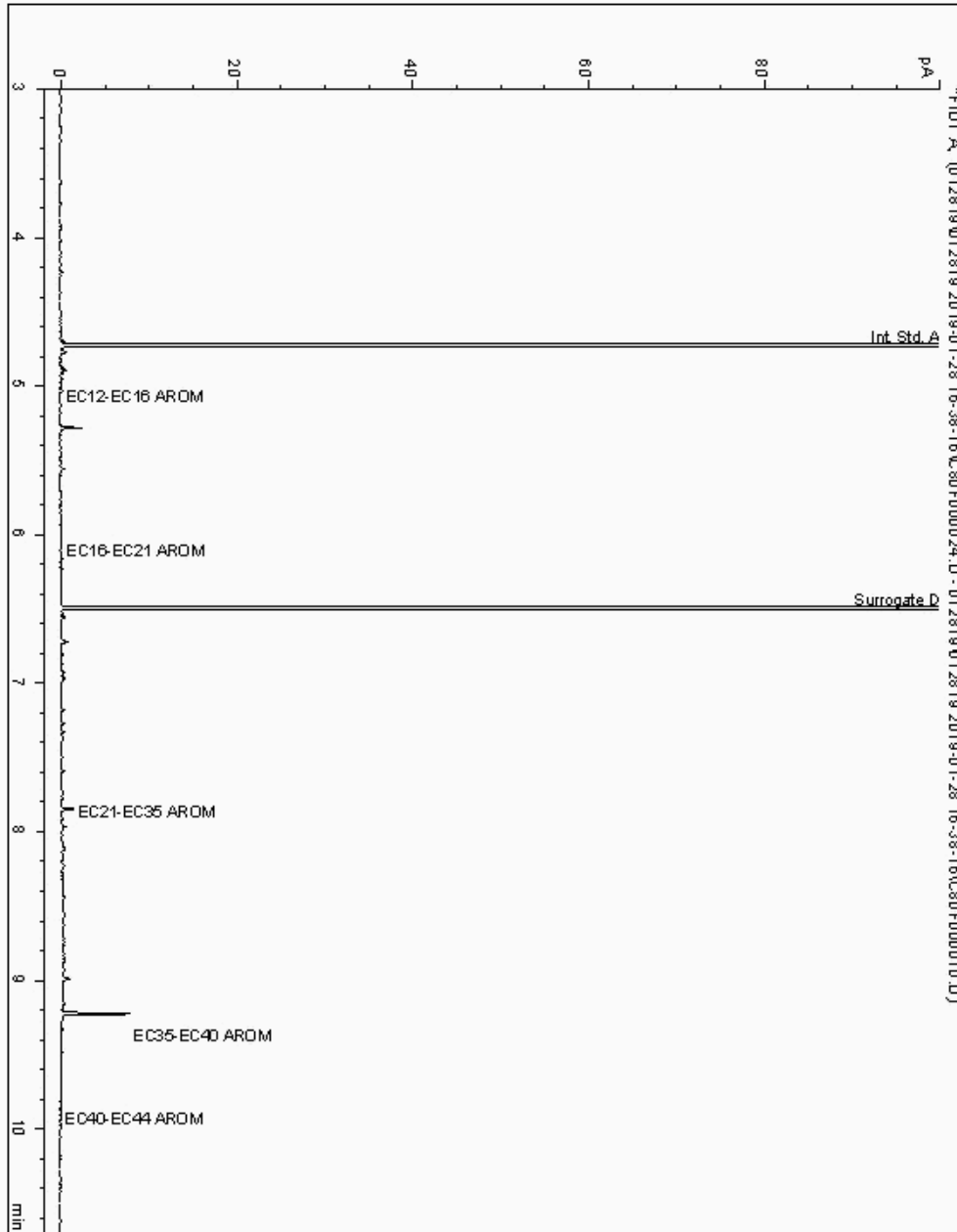
Analysis: EPH CWG (Aromatic) GC (S)
19179695

Sample No :
Sample ID : BH228

19,179,695Depth :8.00 - 10.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18016960-
Date Acquired : 29/01/19 00:04:46
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

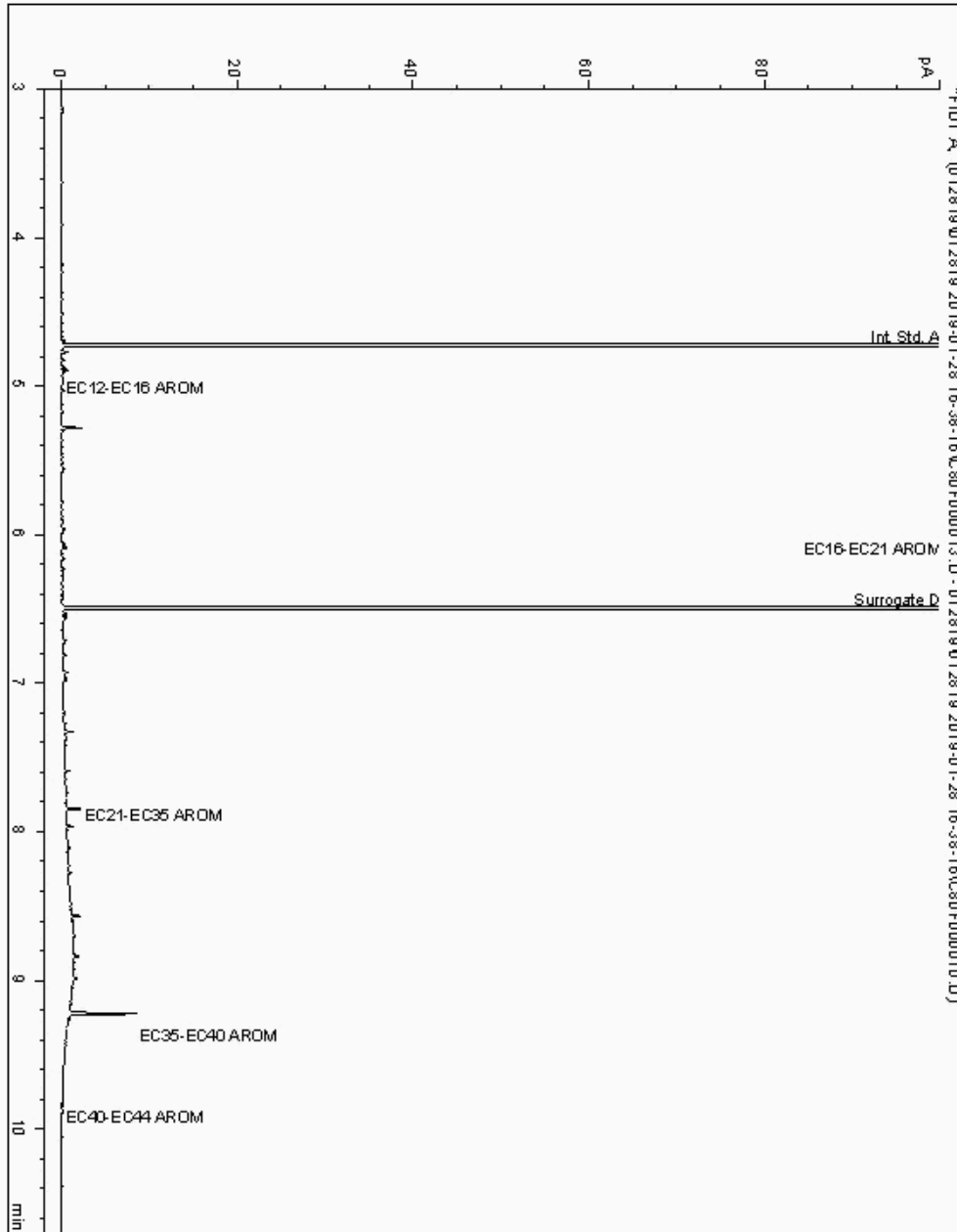
Analysis: EPH CWG (Aromatic) GC (S)
19179739

Sample No :
Sample ID : BH228

19,179,739Depth : 15.00 - 16.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18017079-
Date Acquired : 28/01/19 20:39:10
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

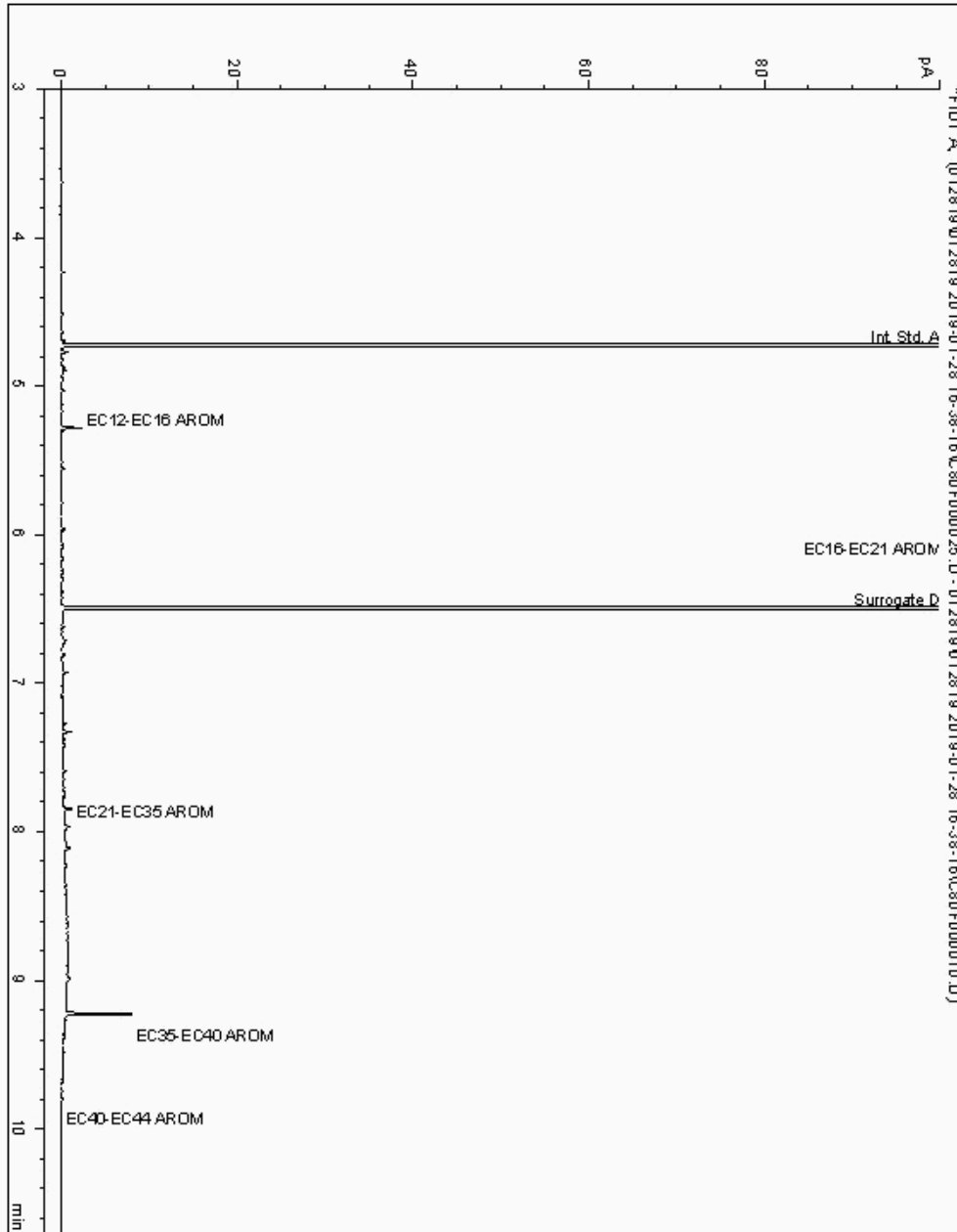
Analysis: EPH CWG (Aromatic) GC (S)
19179786

Sample No :
Sample ID : BH228

19,179,786Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18017048-
Date Acquired : 29/01/19 00:25:07
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

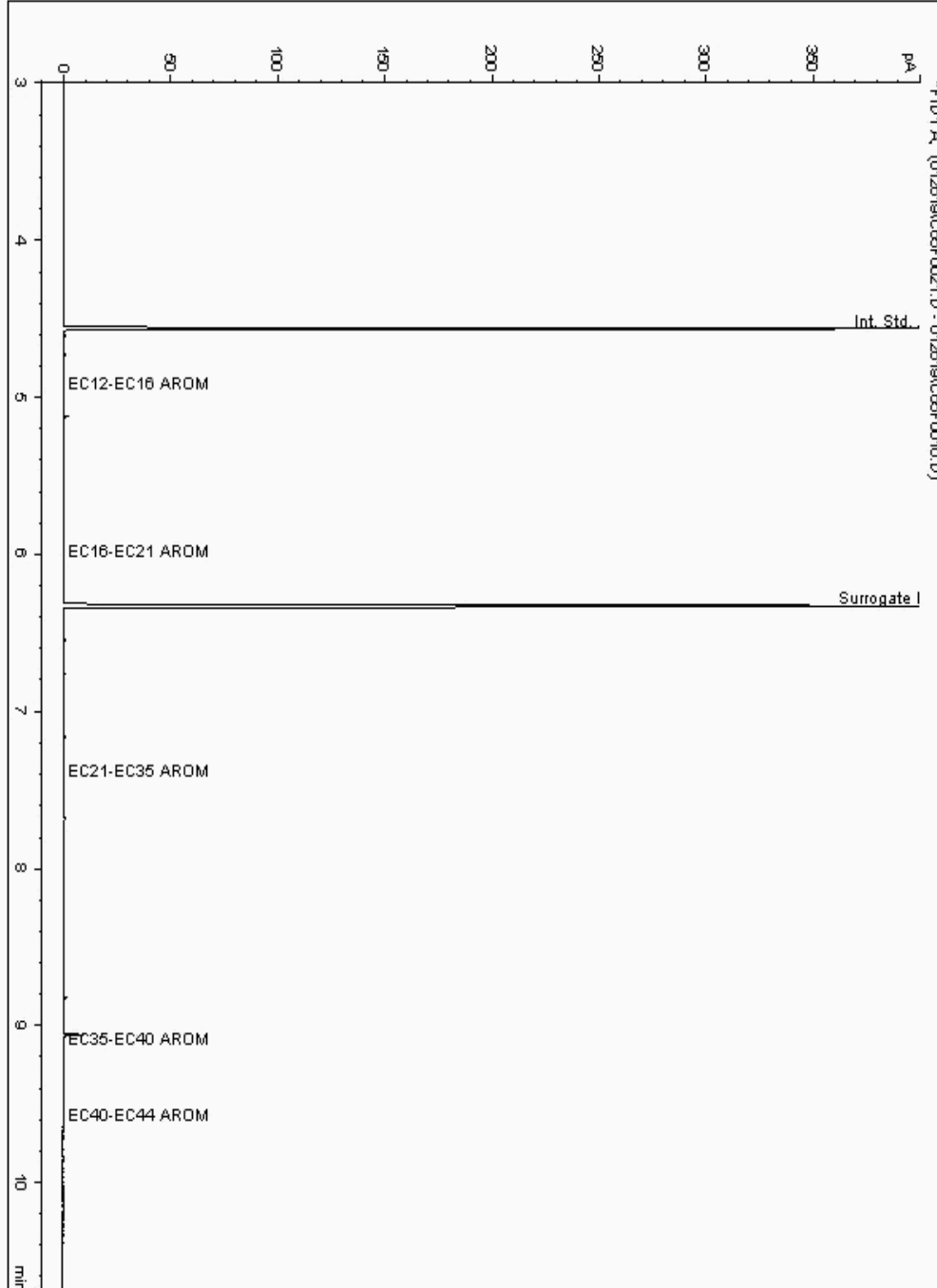
Analysis: EPH CWG (Aromatic) GC (S)
19179969

Sample No :
Sample ID : BH229

19,179,969 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017356-
Date Acquired : 26/01/2019 16:27:58 PM
Units : ppb
Dilution: BH229[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

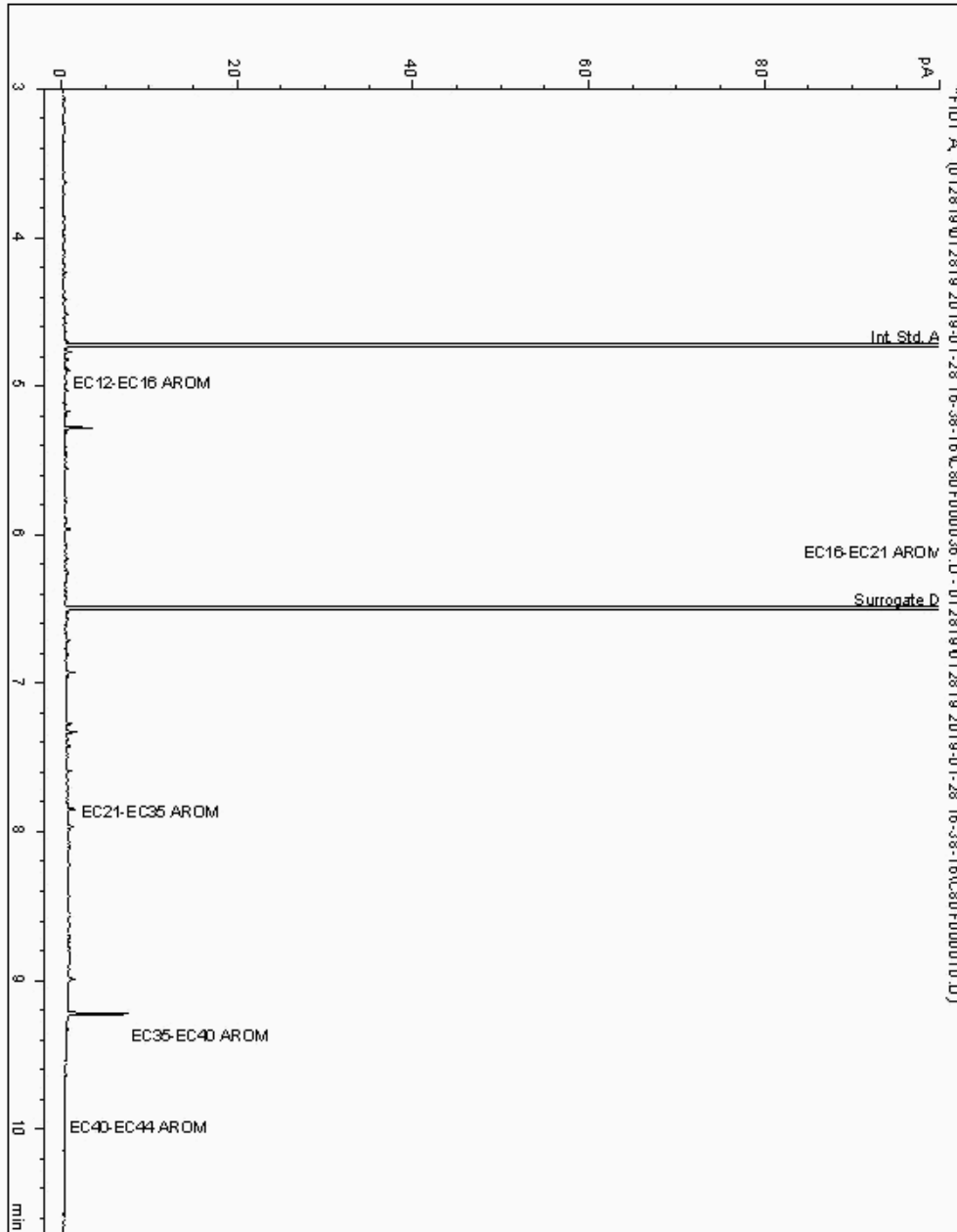
Analysis: EPH CWG (Aromatic) GC (S)
19180029

Sample No :
Sample ID : BH229

19,180,029 Depth : 15.00 - 16.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18017403-
Date Acquired : 29/01/19 03:34:30
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

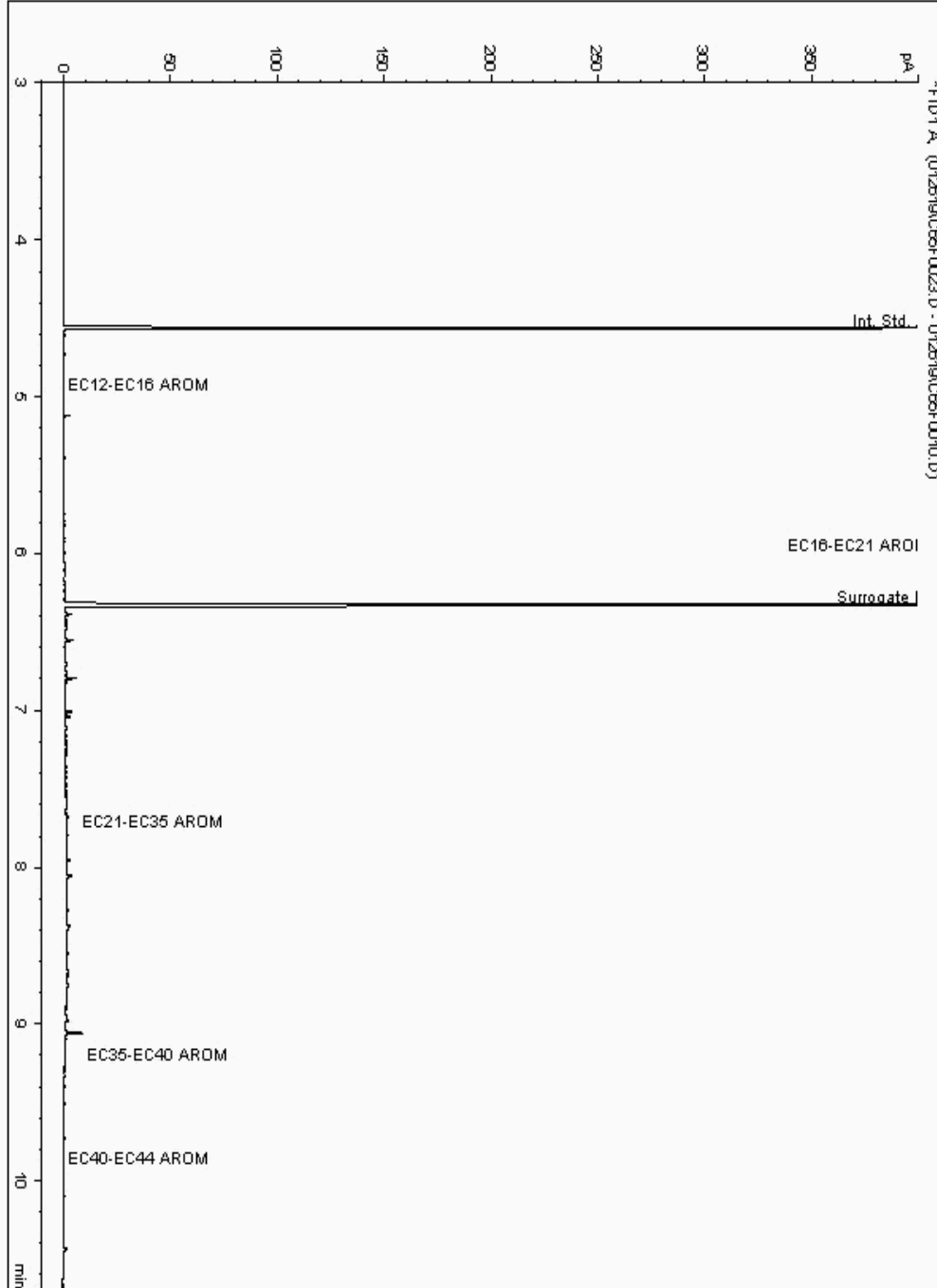
Analysis: EPH CWG (Aromatic) GC (S)
19180100

Sample No :
Sample ID : BH227

19,180,100Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18016569-
Date Acquired : 26/01/2019 17:09:05 PM
Units : ppb
Dilution: BH227[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

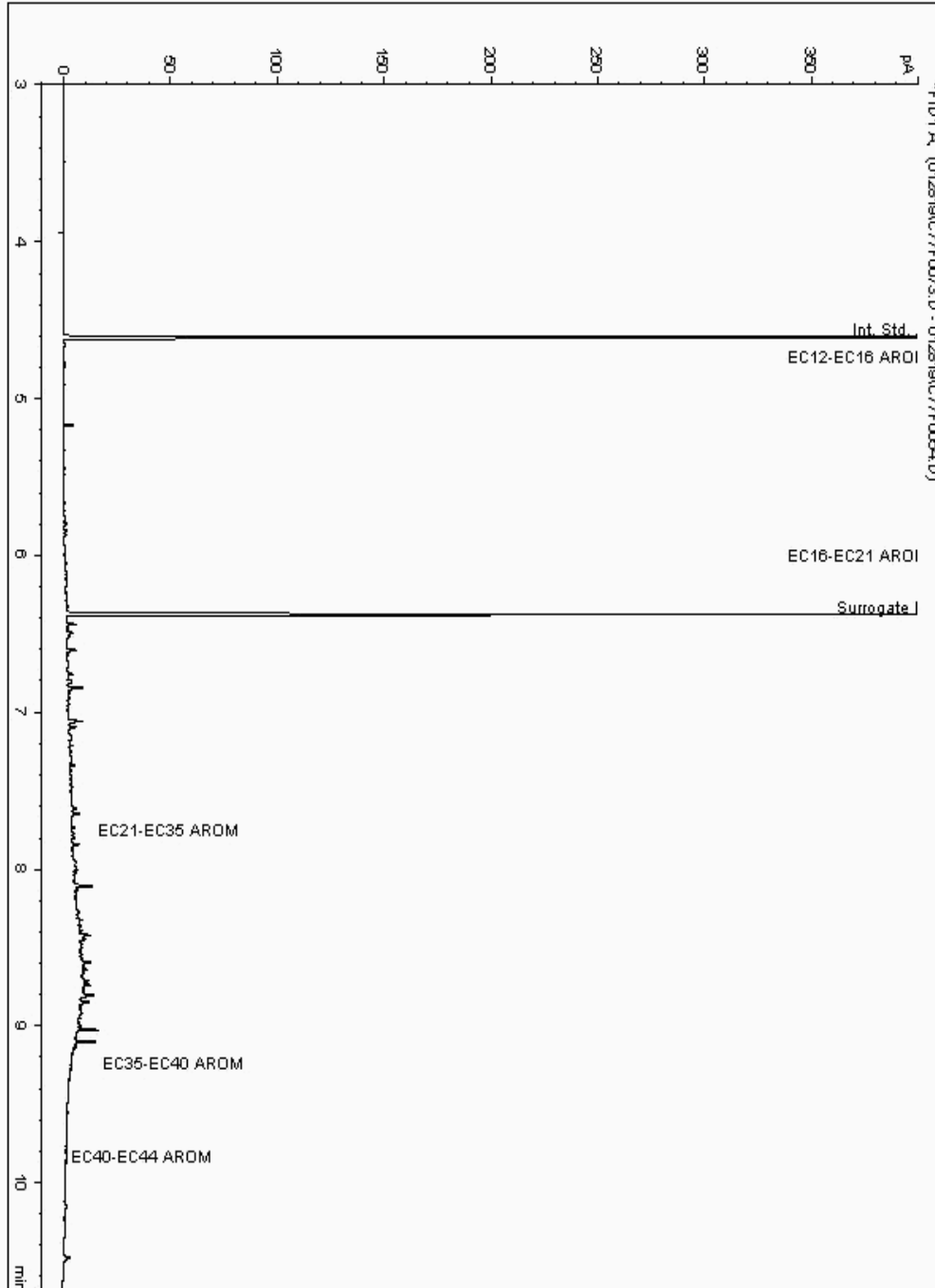
Analysis: EPH CWG (Aromatic) GC (S)
19180112

Sample No :
Sample ID : BH229

19,180,112Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18017194-
Date Acquired : 1/29/2019 12:54:24 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

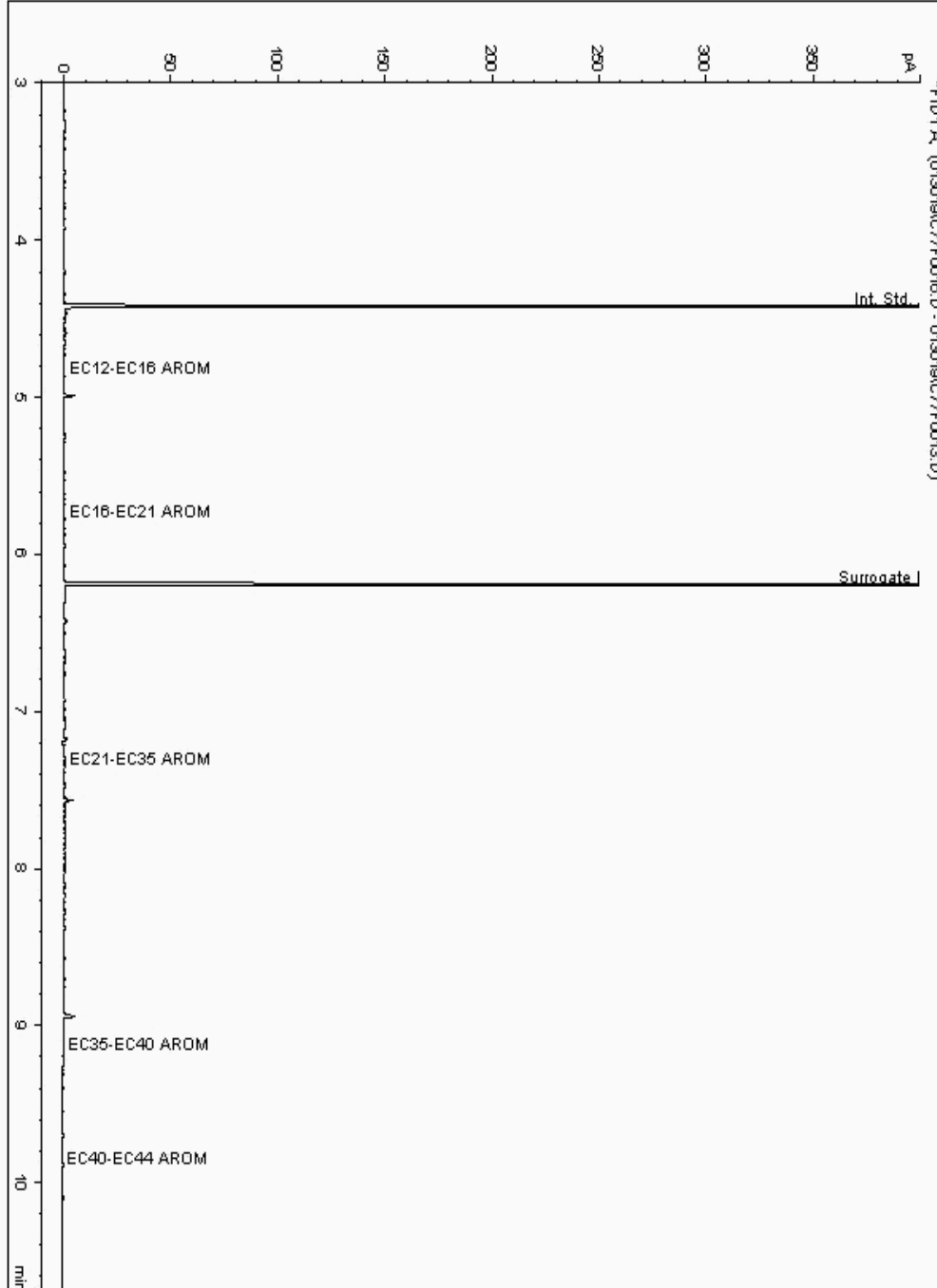
Analysis: EPH CWG (Aromatic) GC (S)
19222384

Sample No :
Sample ID : BH227

19,222,384 Depth : 15.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18060603-
Date Acquired : 30/01/2019 13:31:48 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

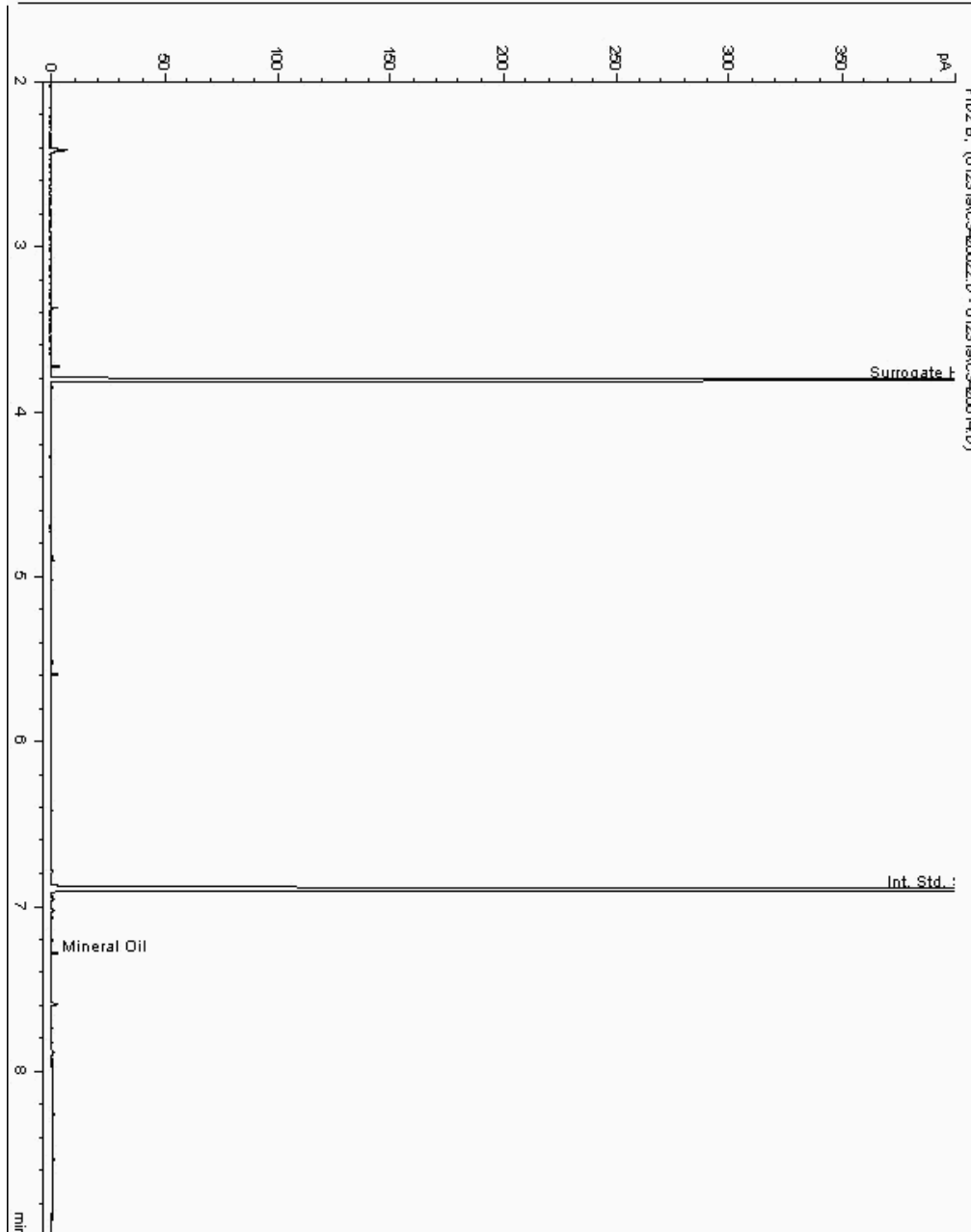
Analysis: Mineral Oil
19154781

Sample No :
Sample ID : BH225

19,154,781 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997231-
Date Acquired : 23/01/19 16:27:23 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

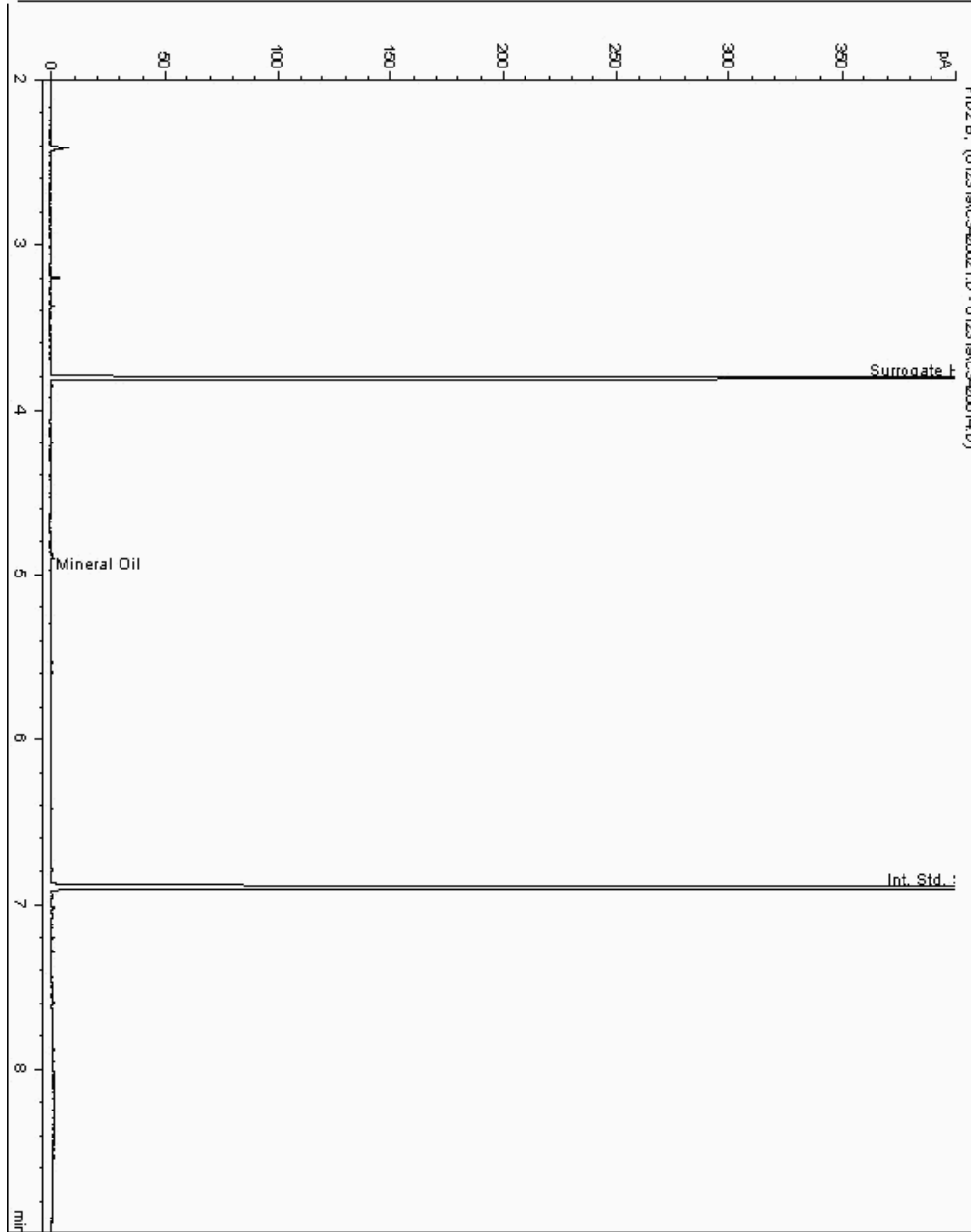
Analysis: Mineral Oil
19154828

Sample No :
Sample ID : BH225

19,154,828 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997329-
Date Acquired : 23/01/19 16:07:12 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

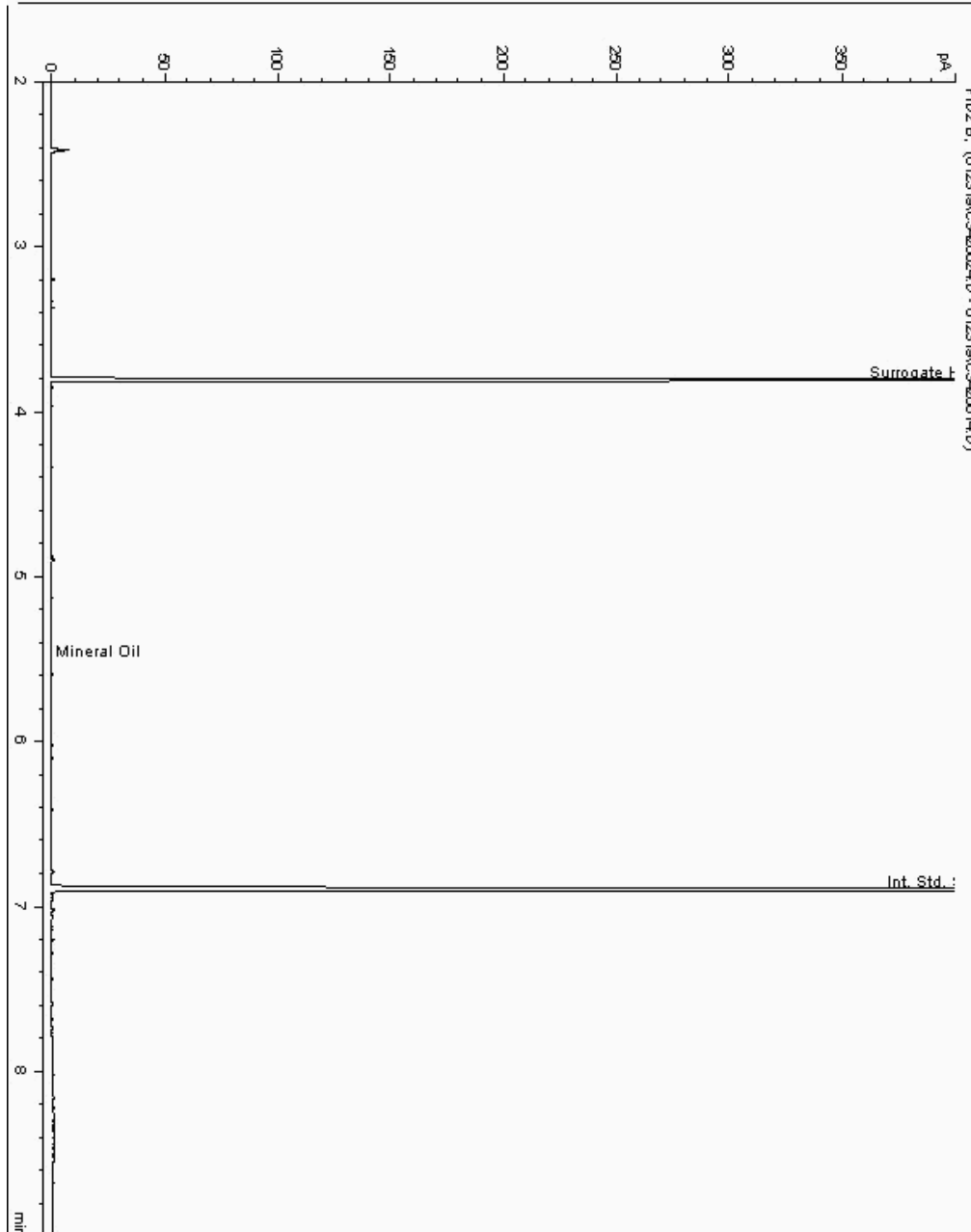
Analysis: Mineral Oil
19155364

Sample No :
Sample ID : BH225

19,155,364Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997209-
Date Acquired : 23/01/19 16:59:34 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

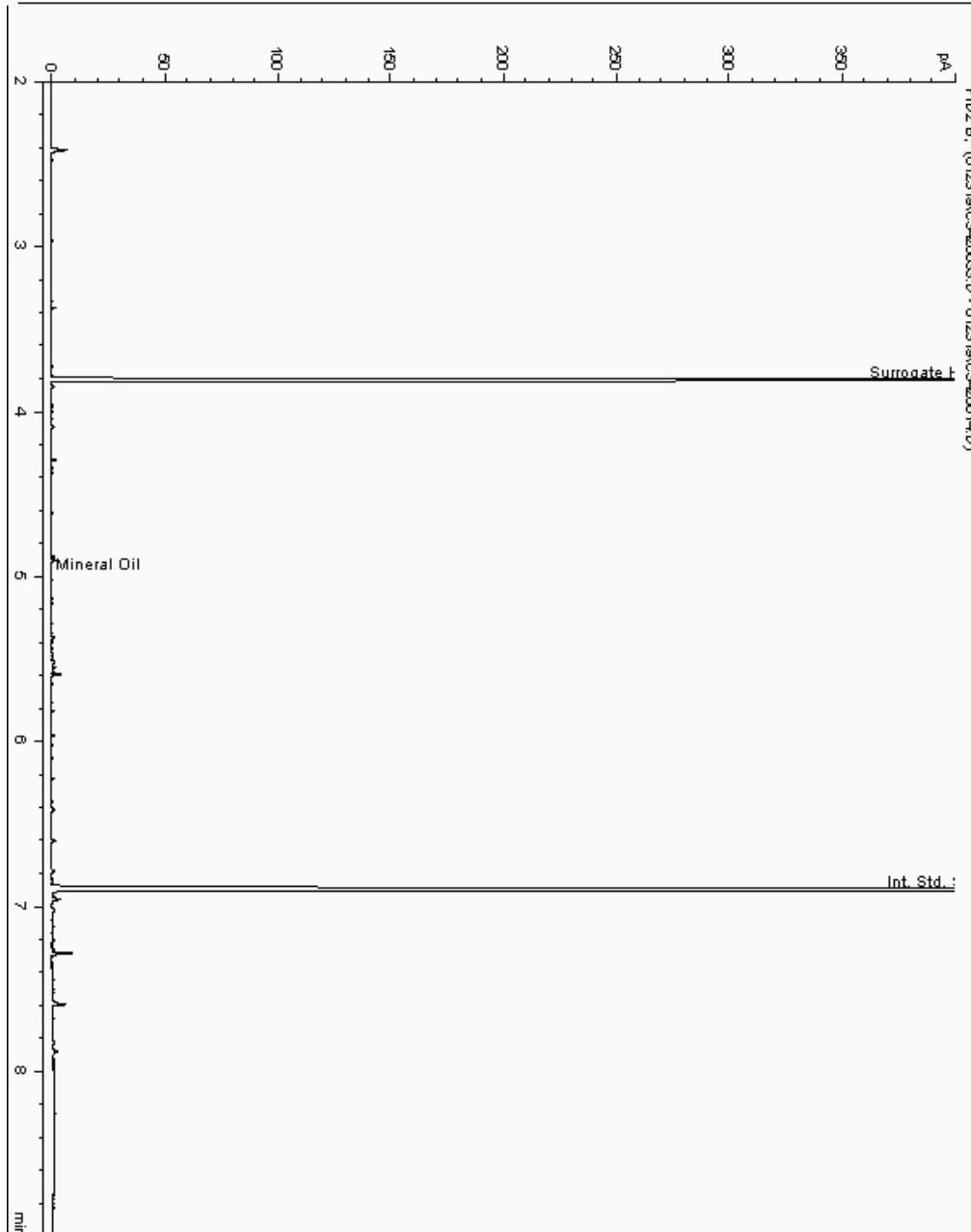
Analysis: Mineral Oil
19155379

Sample No :
Sample ID : BH225

19,155,379 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997276-
Date Acquired : 23/01/19 19:46:00 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

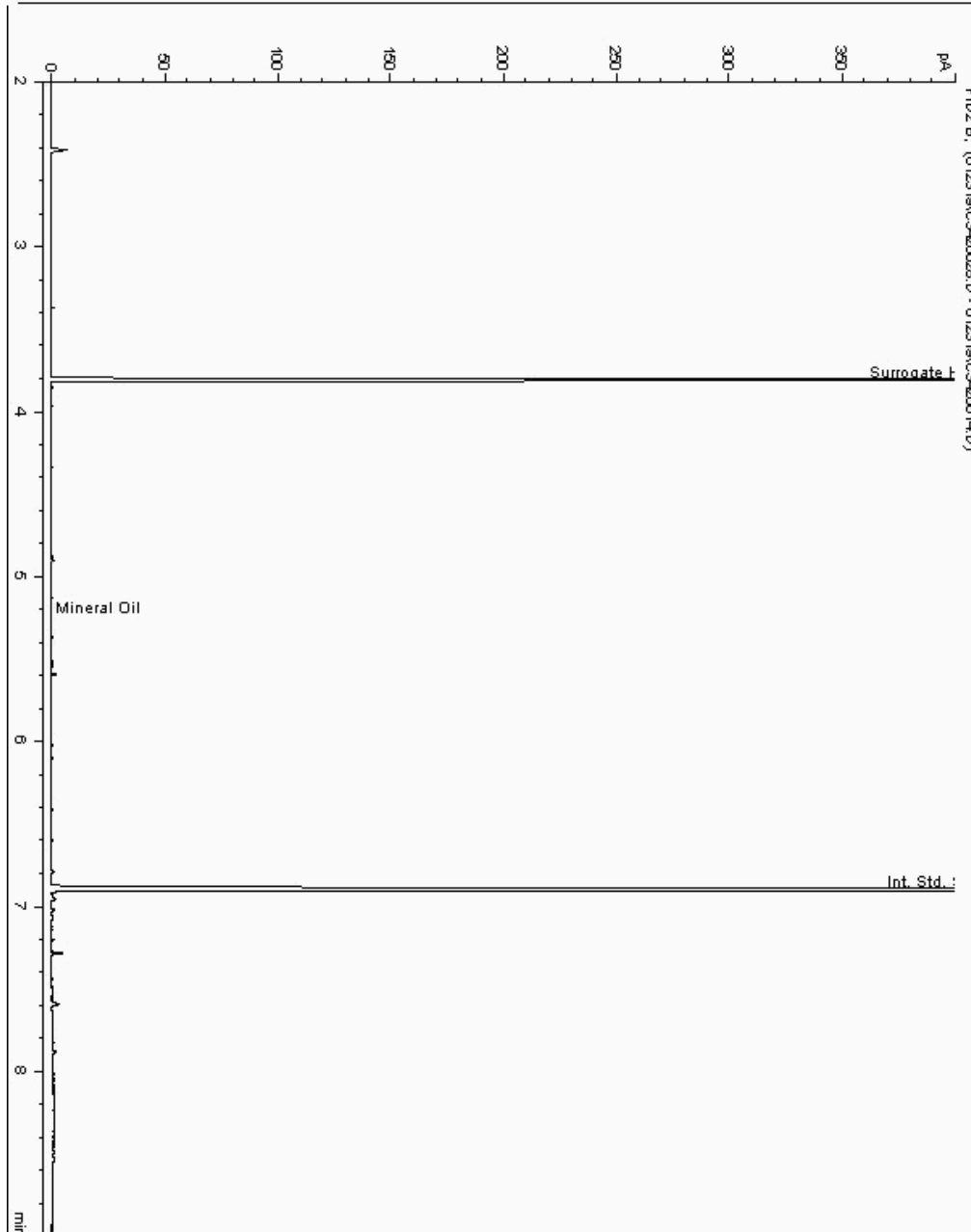
Analysis: Mineral Oil
19155412

Sample No :
Sample ID : BH225

19,155,412 Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997253-
Date Acquired : 23/01/19 18:12:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

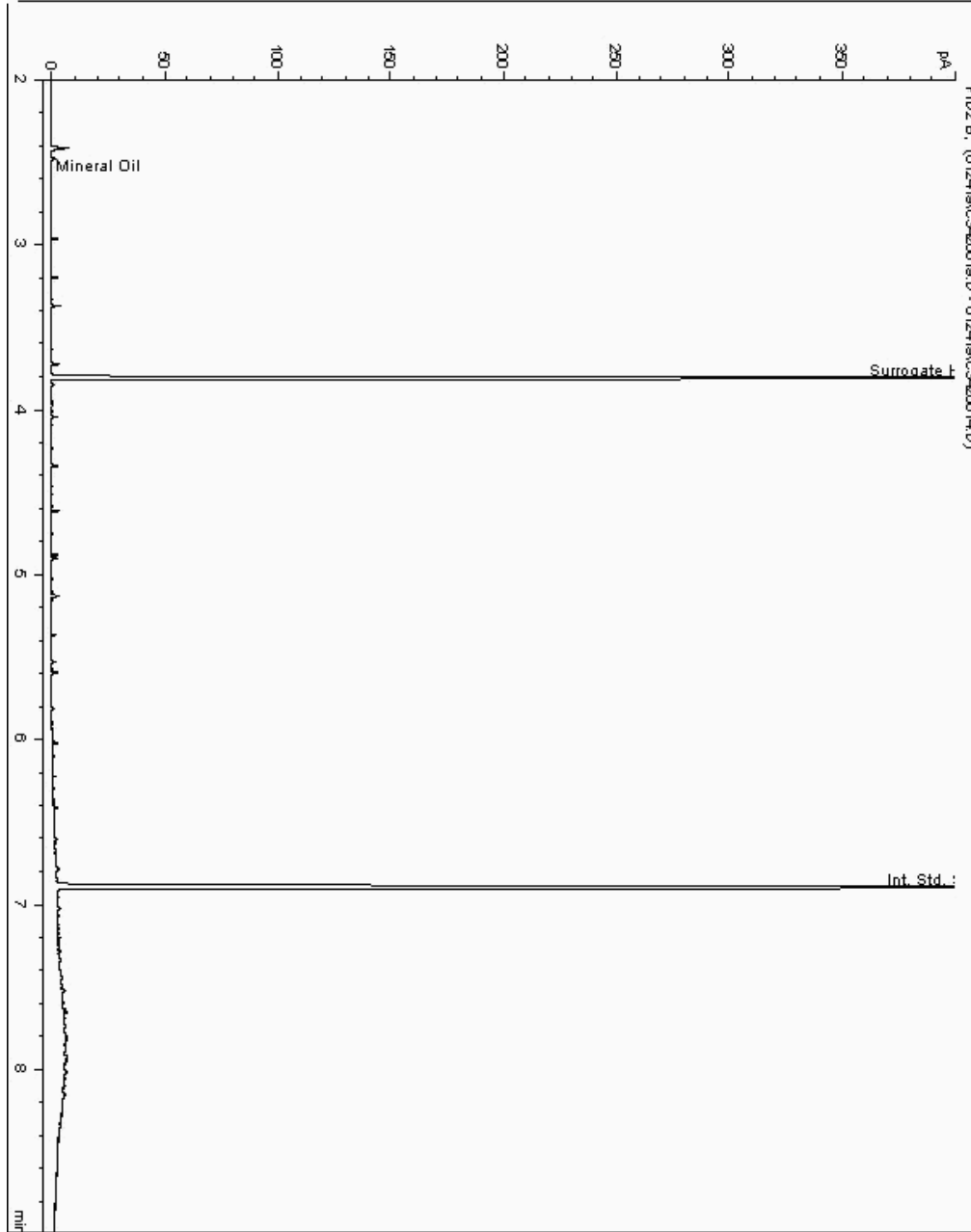
Analysis: Mineral Oil
19156248

Sample No :
Sample ID : BH225

19,156,248 Depth : 15.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997554-
Date Acquired : 24/01/19 15:57:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

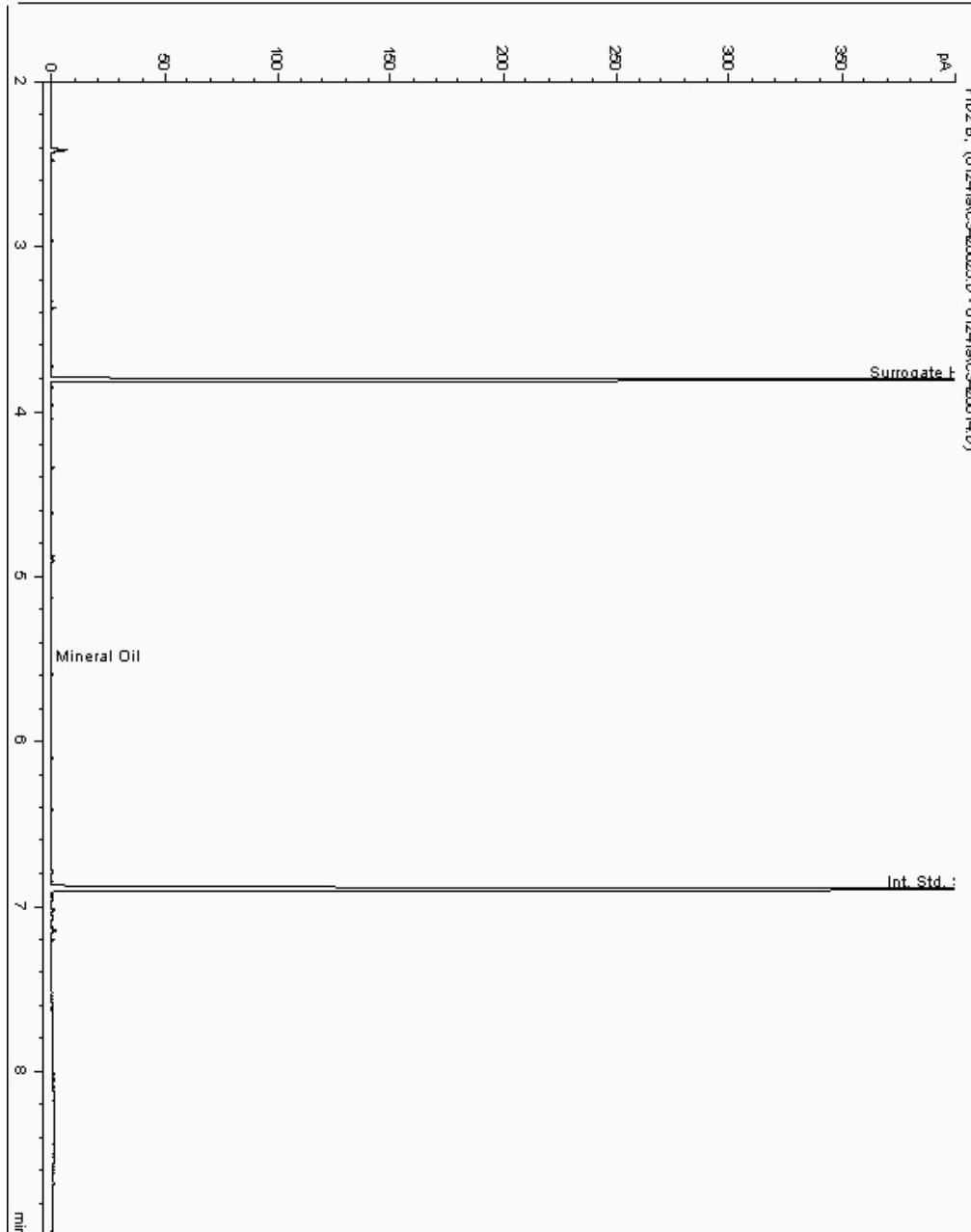
Analysis: Mineral Oil
19156392

Sample No :
Sample ID : BH225

19,156,392Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997483-
Date Acquired : 24/01/19 17:42:26 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

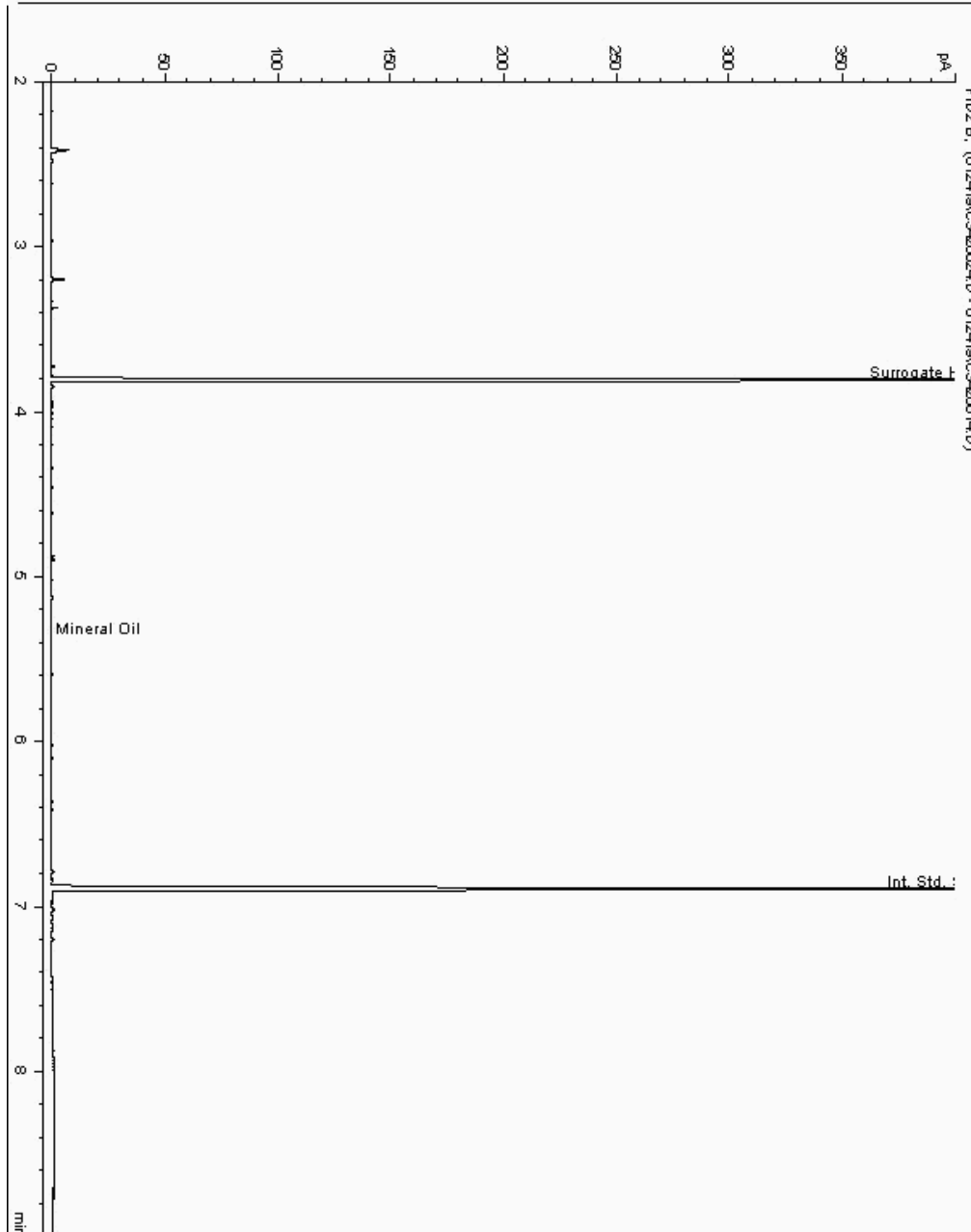
Analysis: Mineral Oil
19156451

Sample No :
Sample ID : BH225

19,156,451 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997449-
Date Acquired : 24/01/19 17:22:17 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

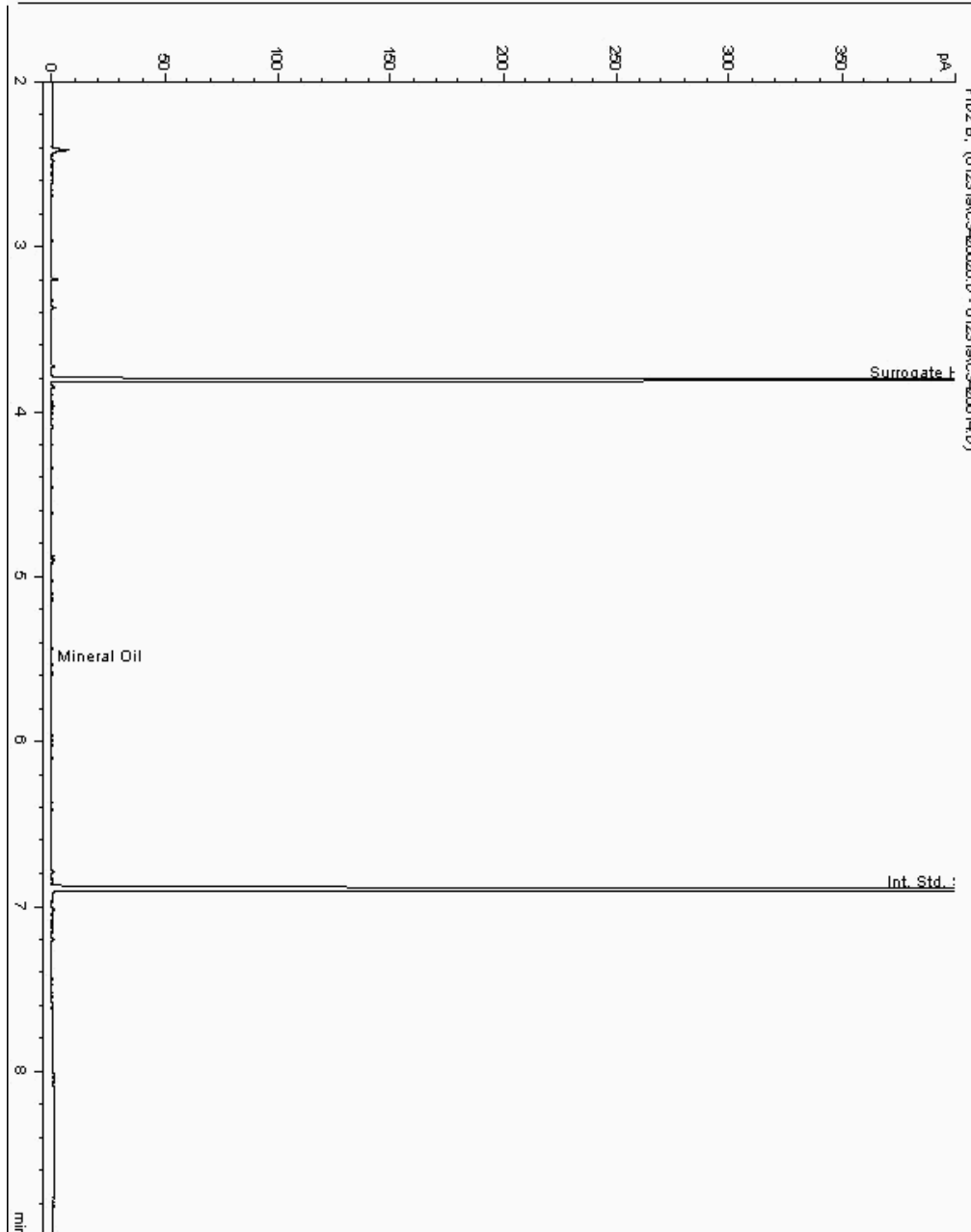
Analysis: Mineral Oil
19156488

Sample No :
Sample ID : BH225

19,156,488Depth : 10.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997392-
Date Acquired : 23/01/19 17:31:59 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

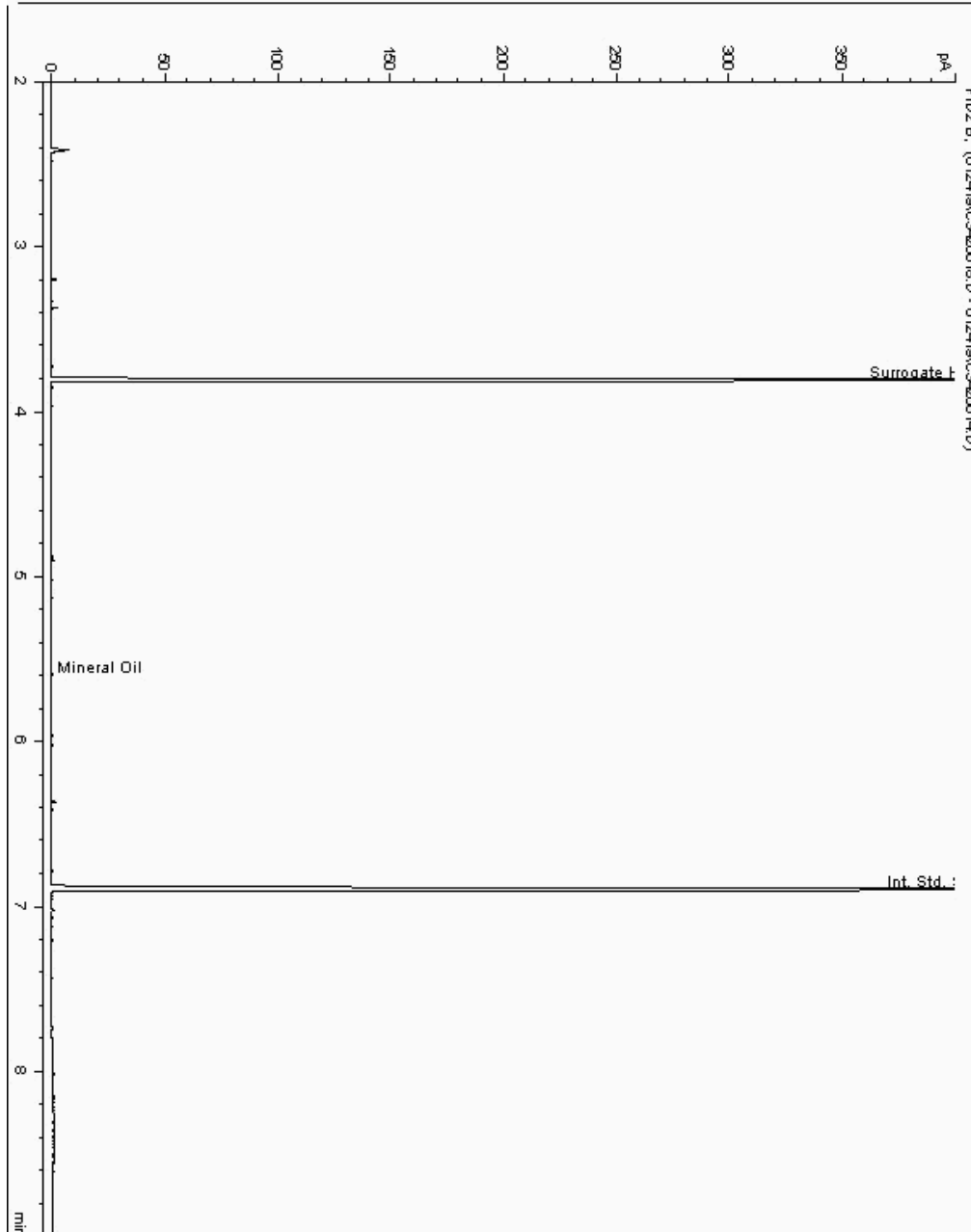
Analysis: Mineral Oil
19156521

Sample No :
Sample ID : BH225

19,156,521 Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997356-
Date Acquired : 24/01/19 15:37:43 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

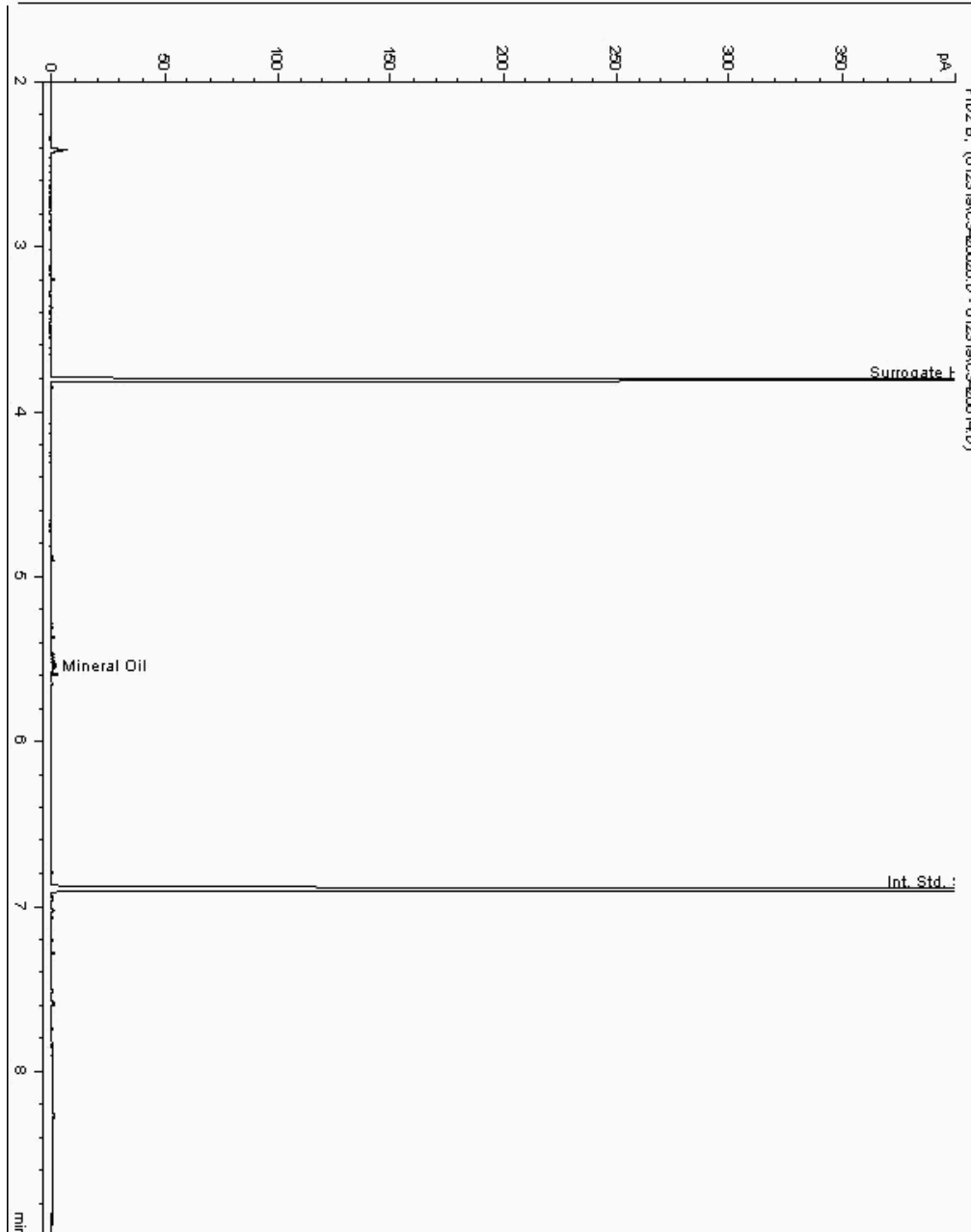
Analysis: Mineral Oil
19157233

Sample No :
Sample ID : BH225

19,157,233Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17997303-
Date Acquired : 23/01/19 15:46:24 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

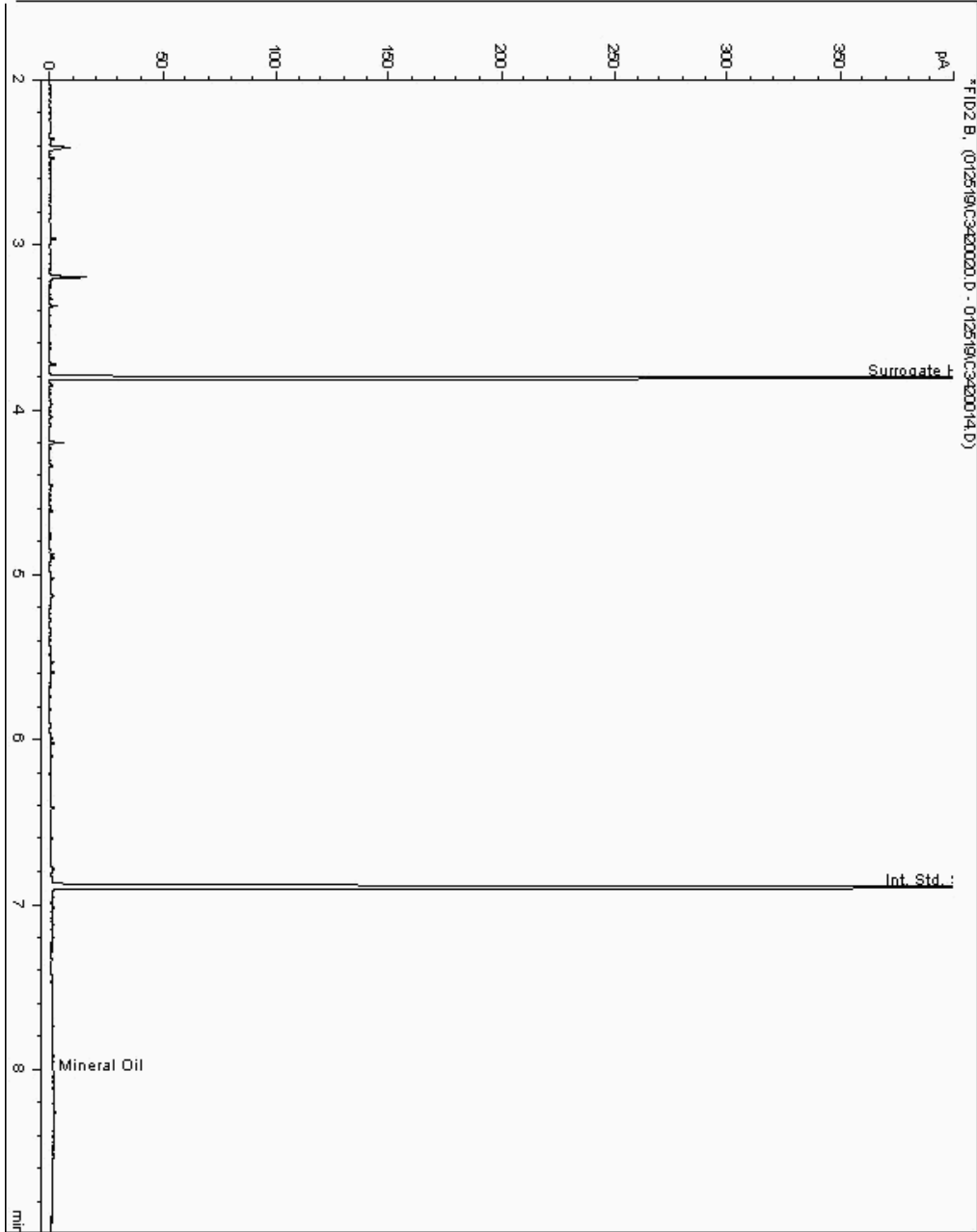
Analysis: Mineral Oil
19177805

Sample No :
Sample ID : BH229

19,177,805Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017380-
Date Acquired : 25/01/19 14:40:19 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

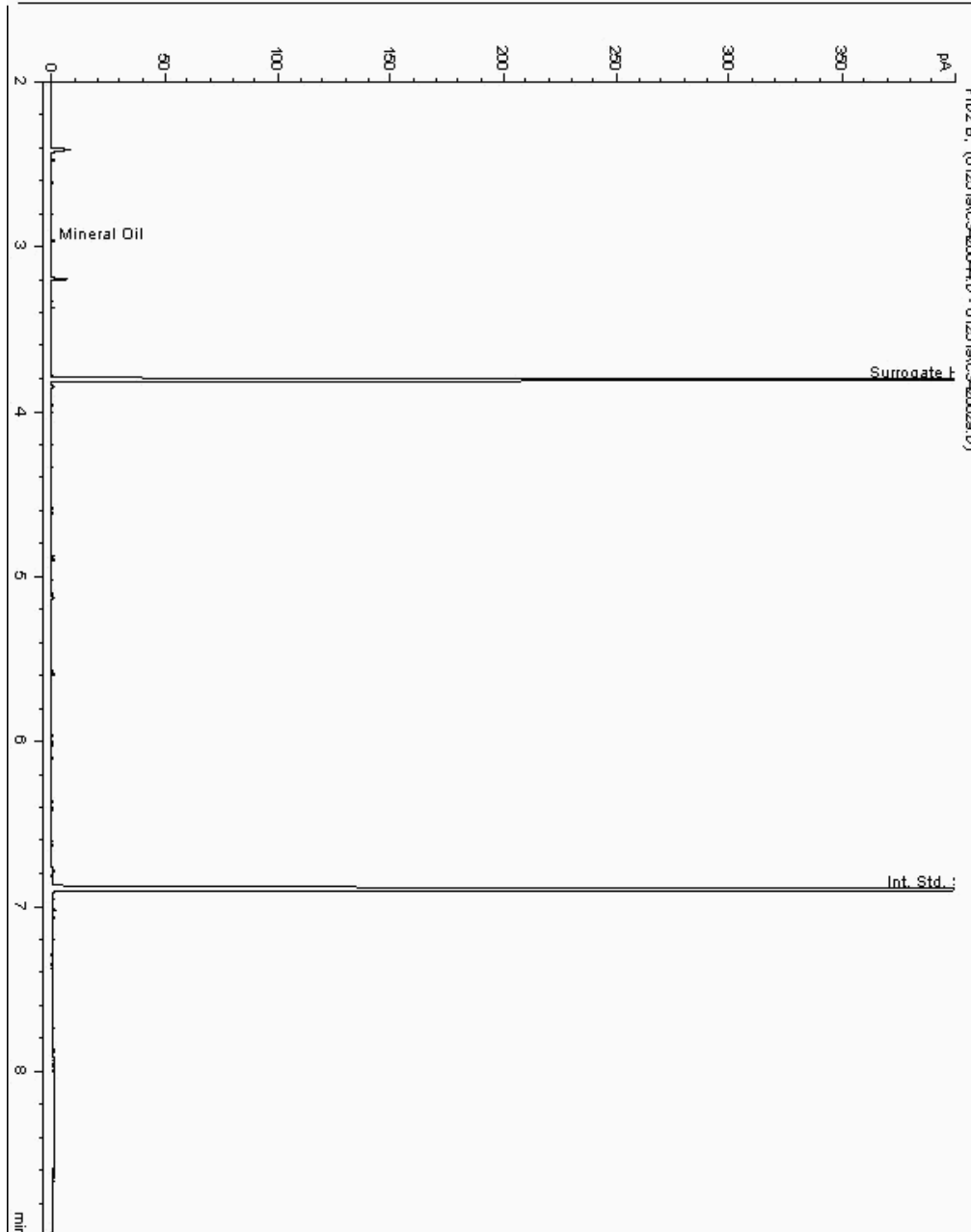
Analysis: Mineral Oil
19177863

Sample No :
Sample ID : BH228

19,177,863 Depth : 11.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017018-
Date Acquired : 25/01/19 22:11:37 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

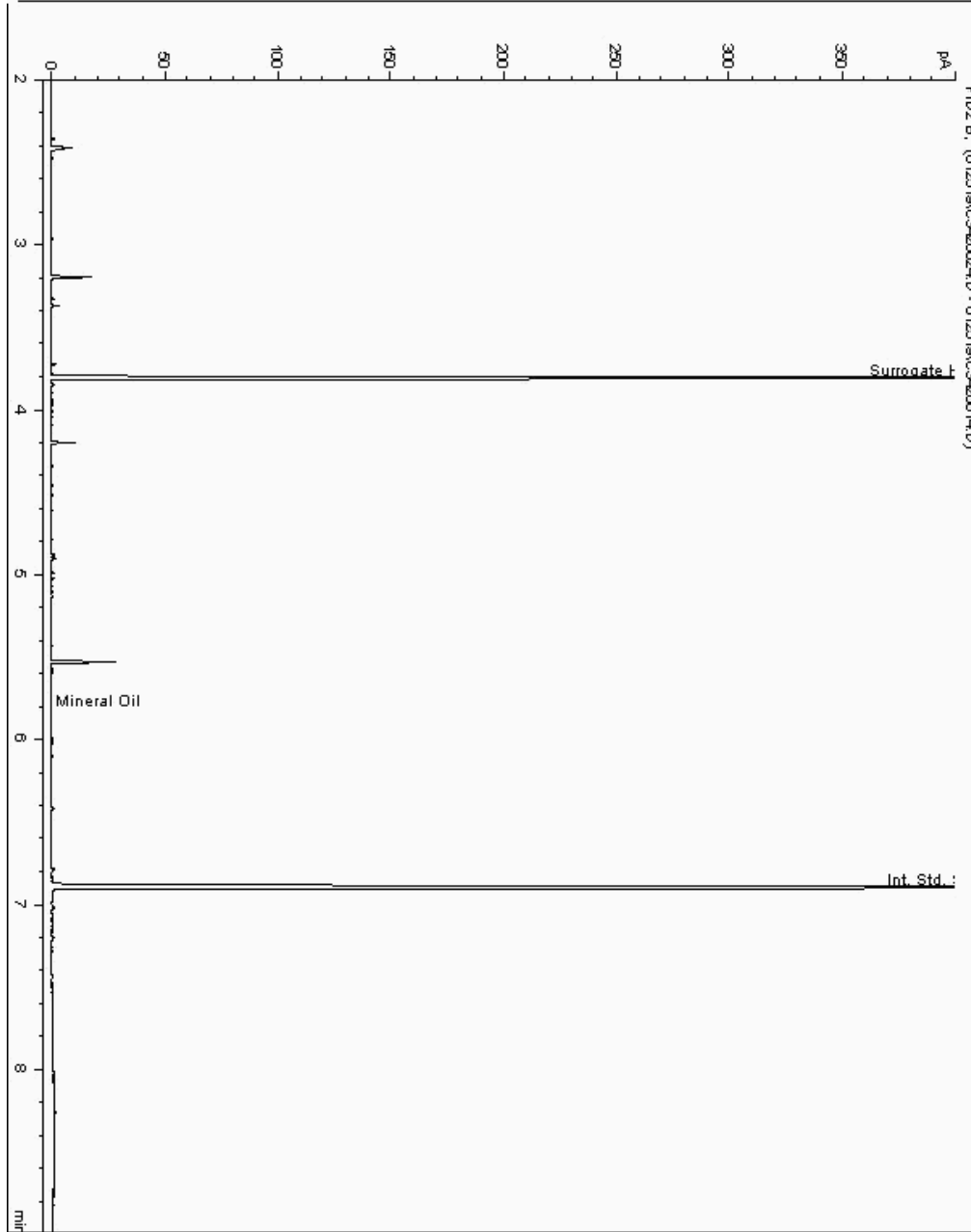
Analysis: Mineral Oil
19178008

Sample No :
Sample ID : BH228

19,178,008Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016983-
Date Acquired : 25/01/19 16:05:34 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

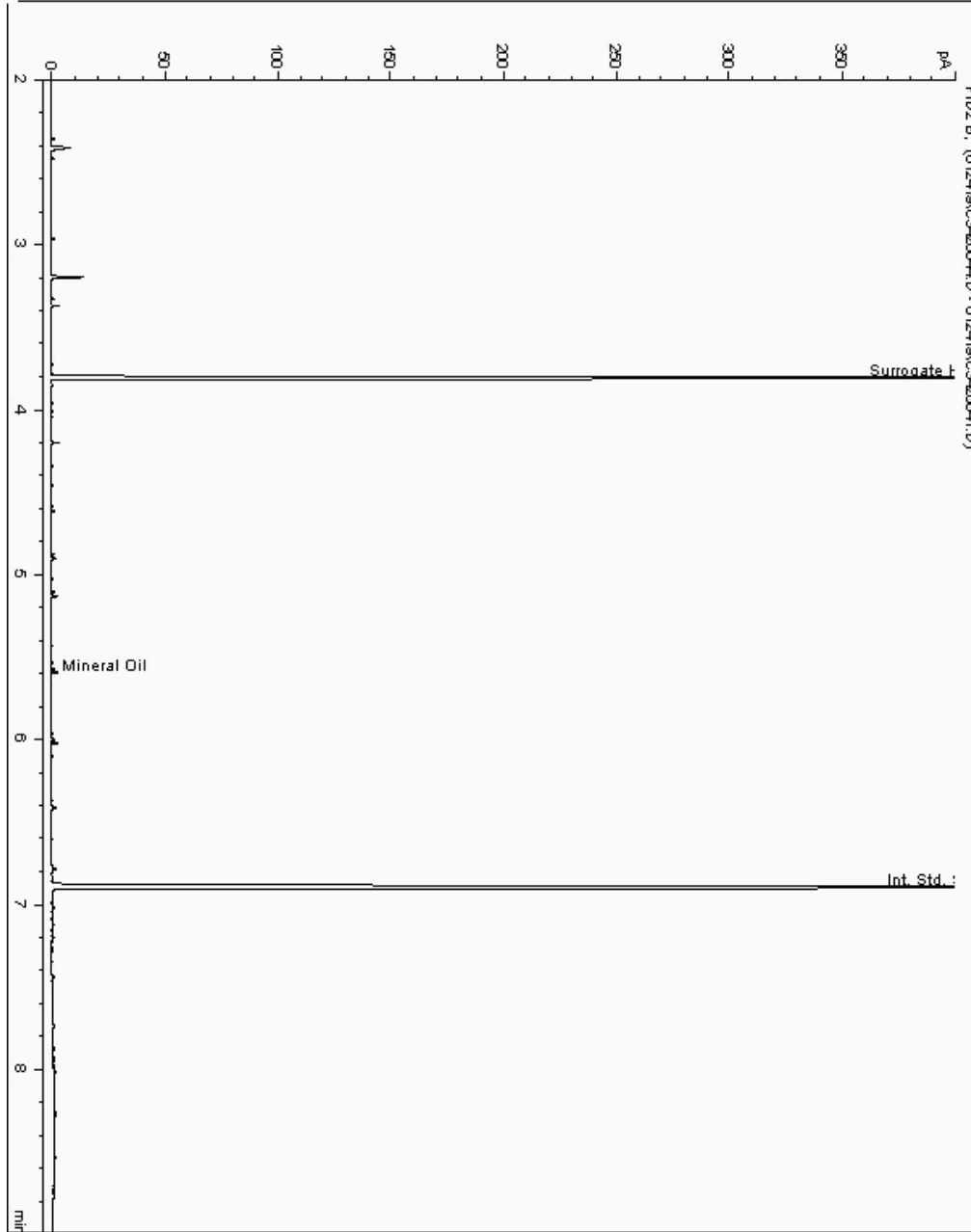
Analysis: Mineral Oil
19178034

Sample No :
Sample ID : BH227

19,178,034 Depth : 15.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016729-
Date Acquired : 24/01/19 23:34:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

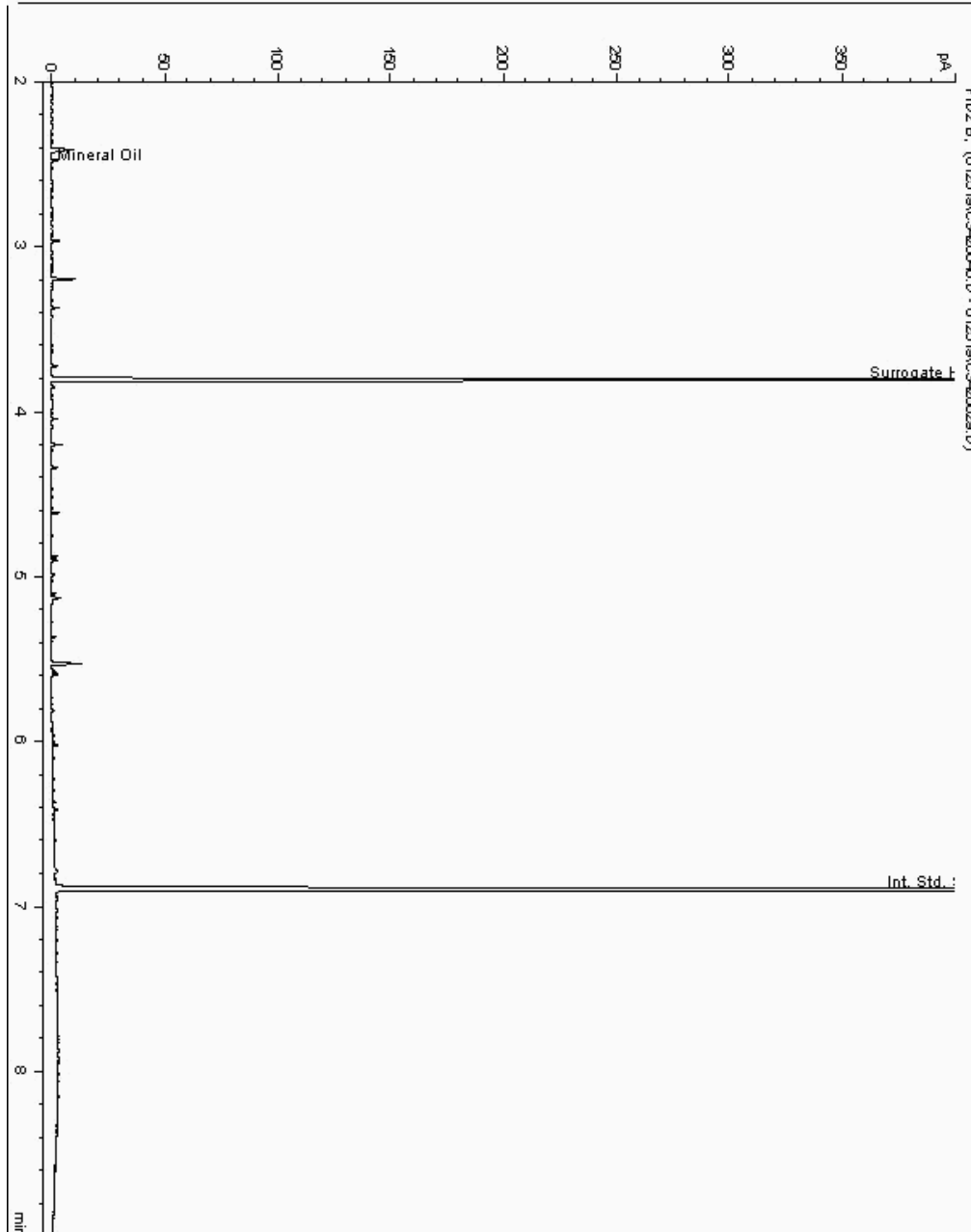
Analysis: Mineral Oil
19178045

Sample No :
Sample ID : BH227

19,178,045 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016698-
Date Acquired : 25/01/19 22:32:00 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

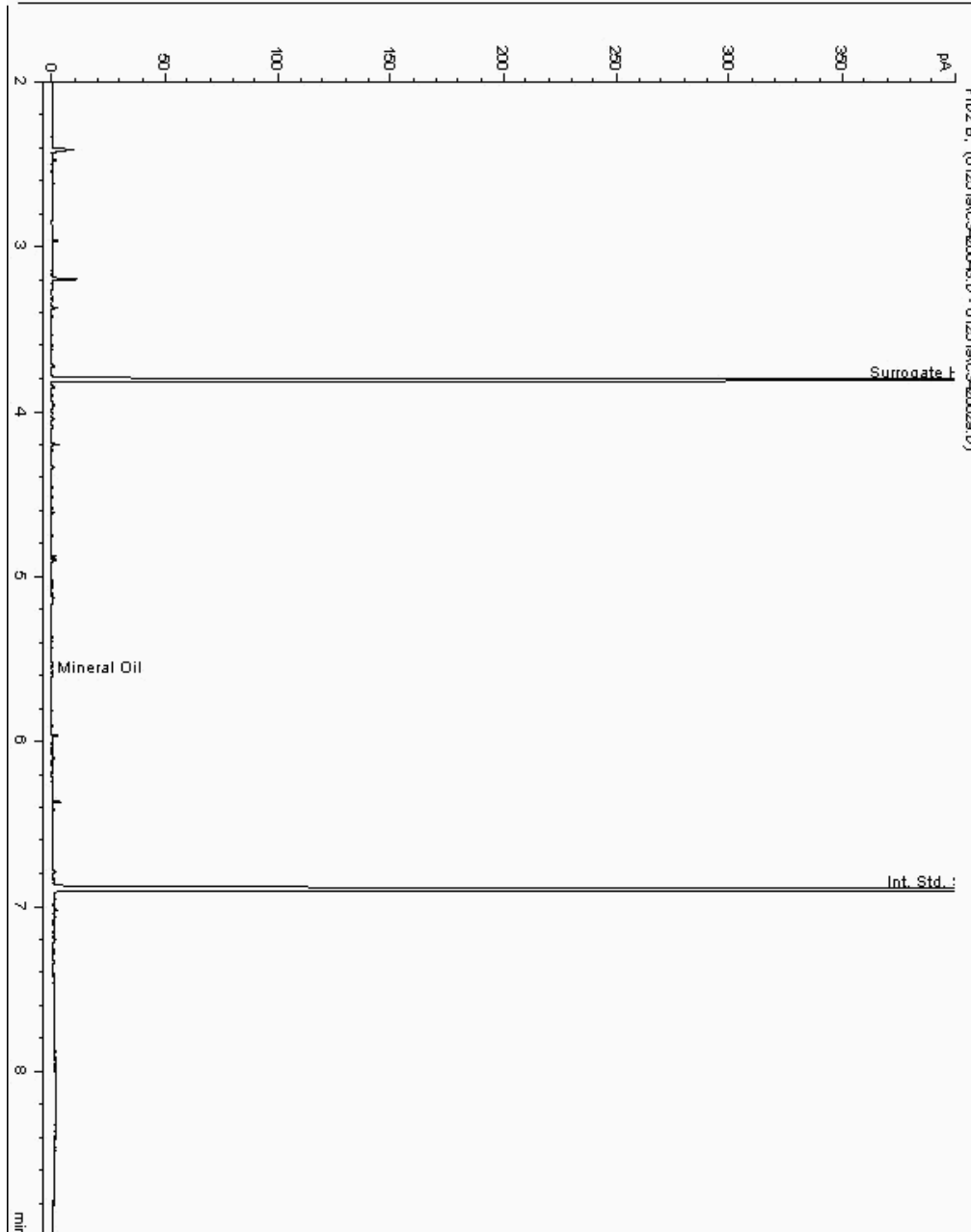
Analysis: Mineral Oil
19178139

Sample No :
Sample ID : BH227

19,178,139Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016665-
Date Acquired : 25/01/19 21:51:31 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

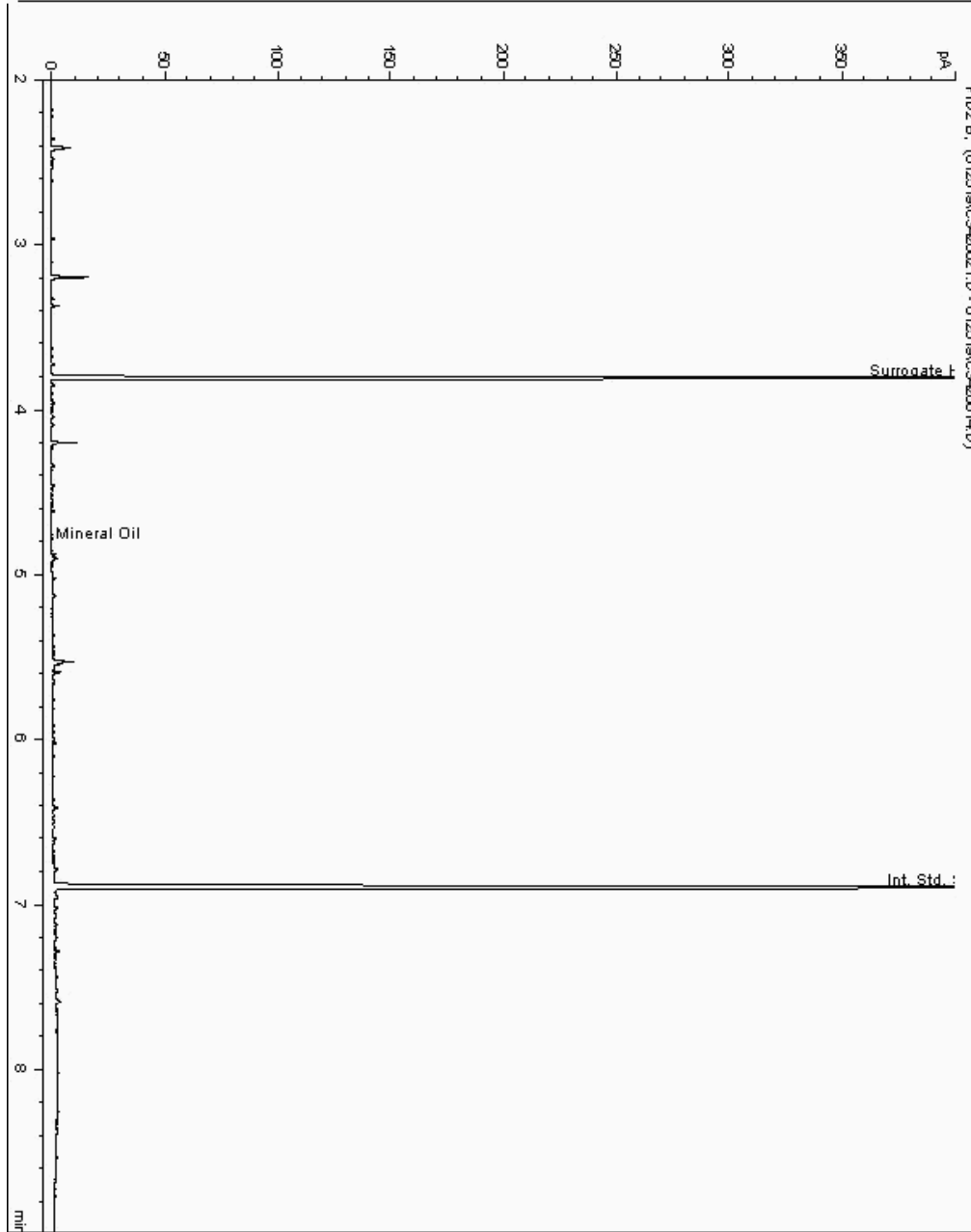
Analysis: Mineral Oil
19178156

Sample No :
Sample ID : BH228

19,178,156Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016776-
Date Acquired : 25/01/19 15:00:45 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

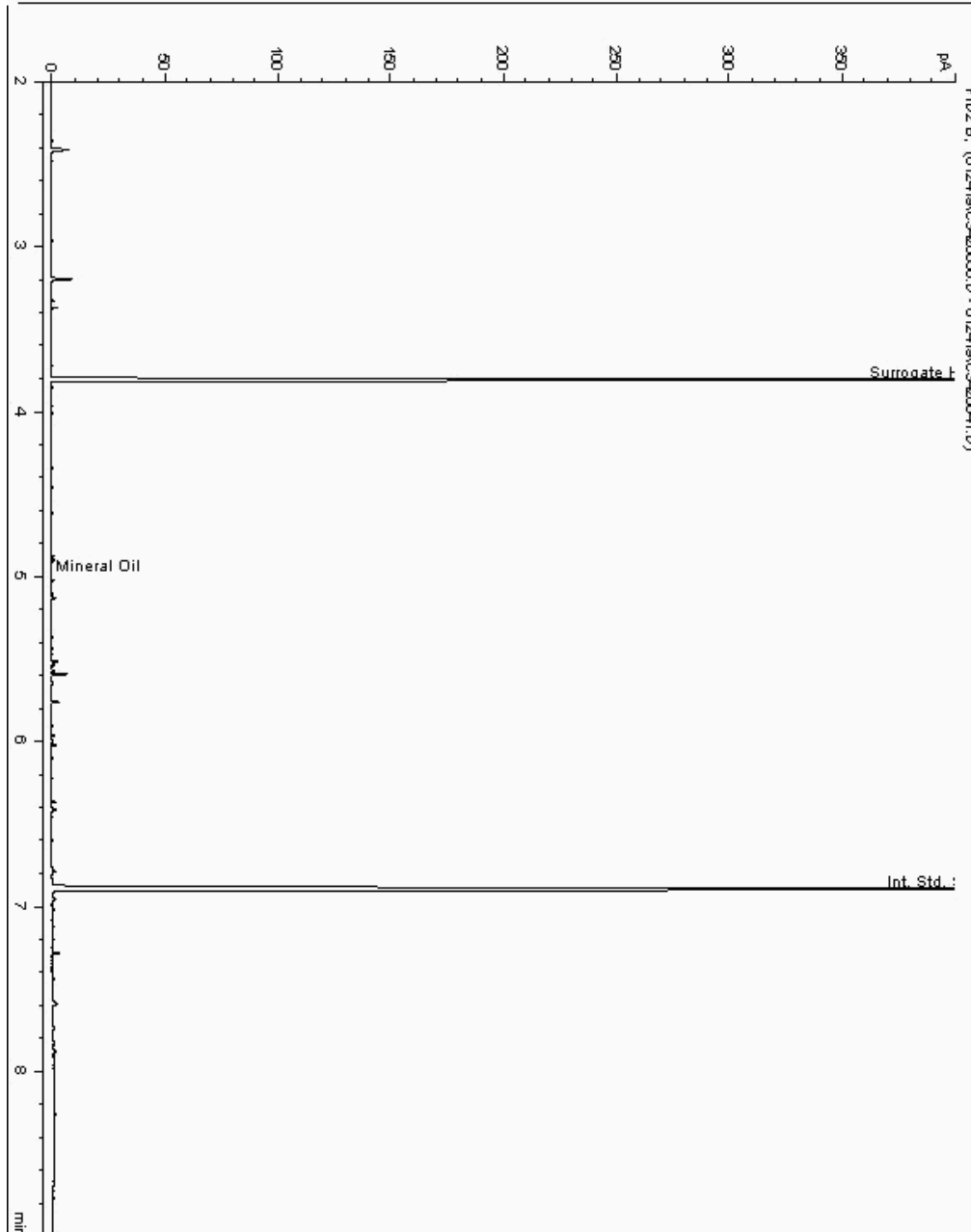
Analysis: Mineral Oil
19178241

Sample No :
Sample ID : BH227

19,178,241 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016520-
Date Acquired : 25/01/19 01:28:20 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

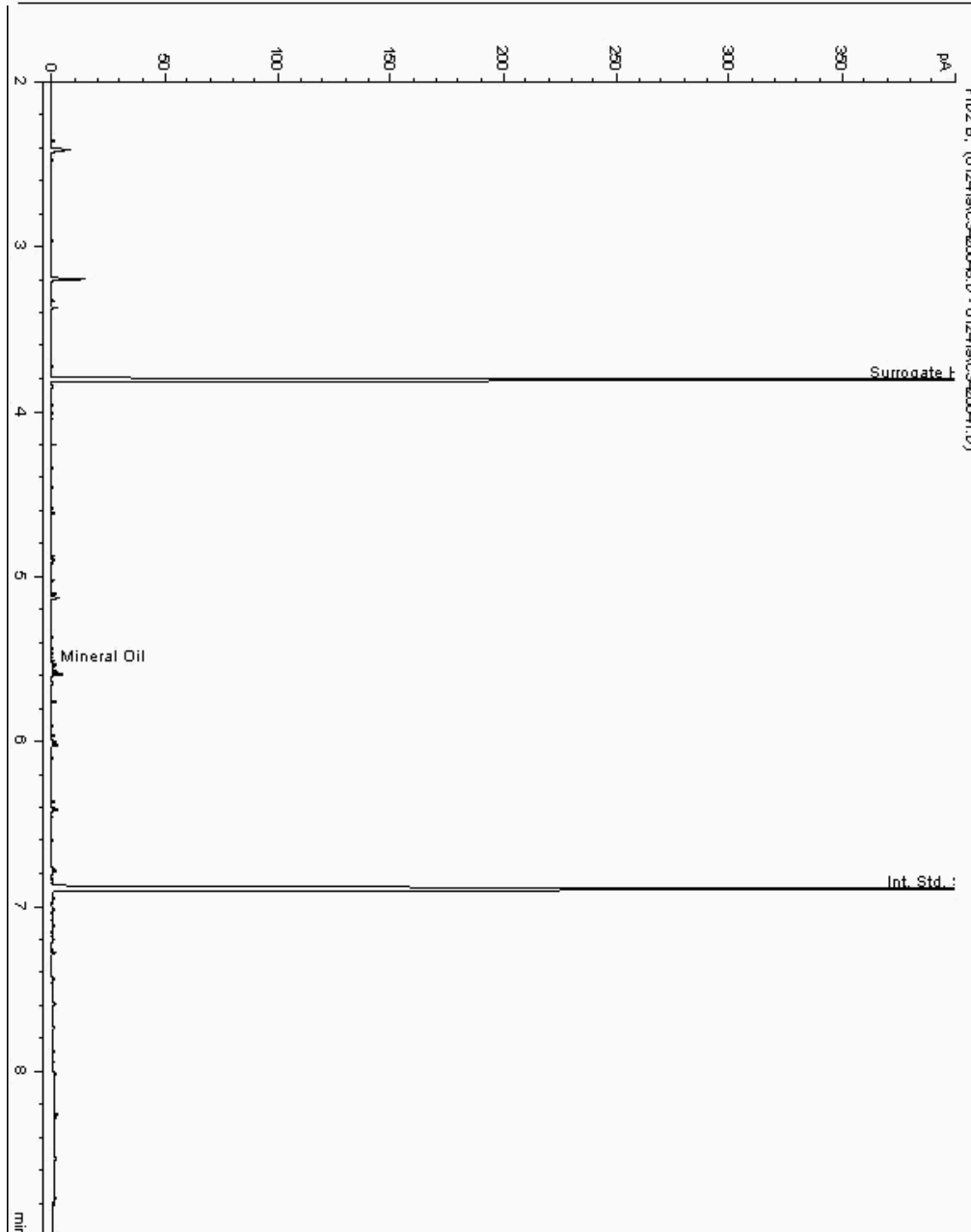
Analysis: Mineral Oil
19178297

Sample No :
Sample ID : BH229

19,178,297Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017267-
Date Acquired : 25/01/19 00:47:15 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

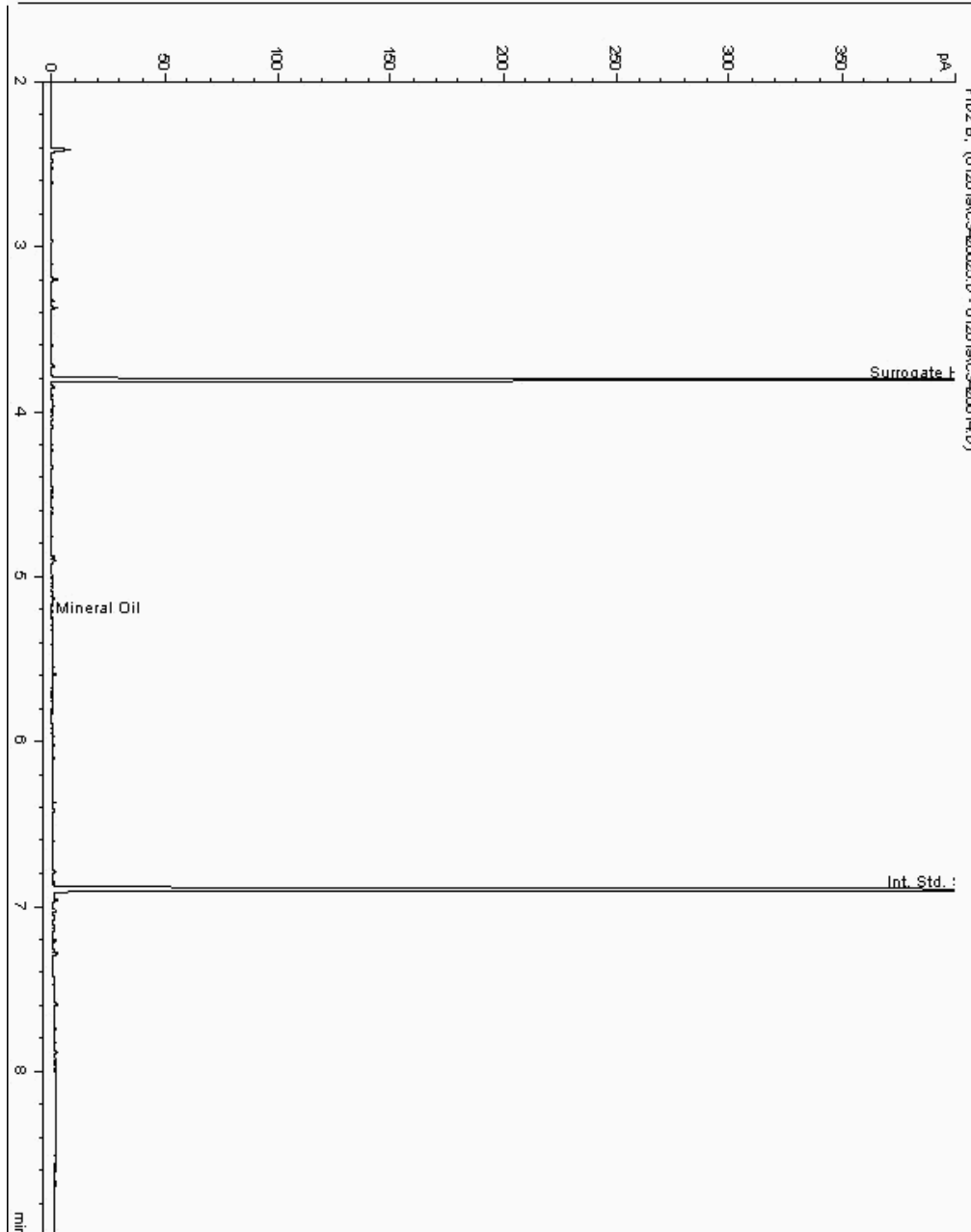
Analysis: Mineral Oil
19178439

Sample No :
Sample ID : BH228

19,178,439Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016813-
Date Acquired : 26/01/19 14:57:25 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

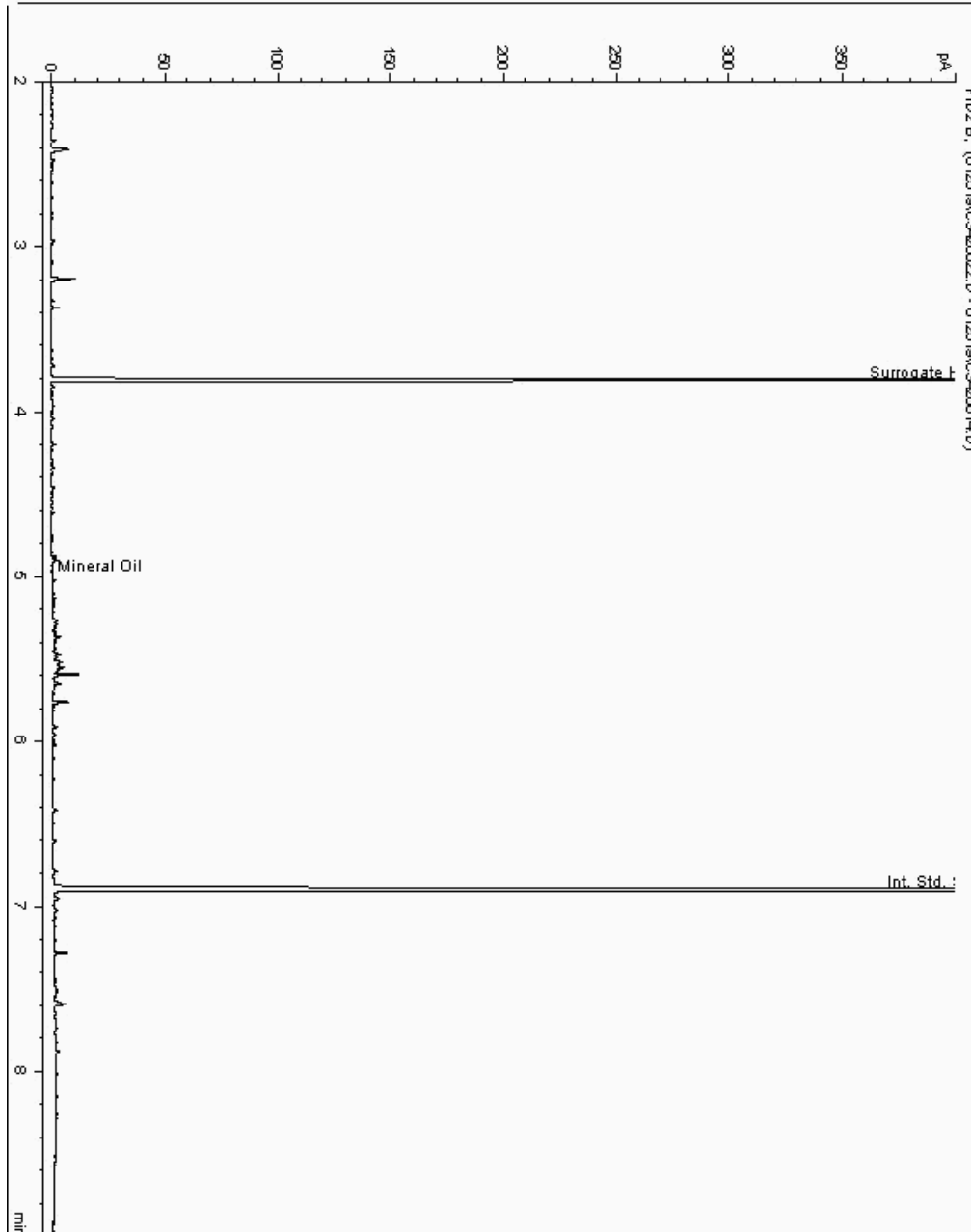
Analysis: Mineral Oil
19178478

Sample No :
Sample ID : BH228

19,178,478 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016867-
Date Acquired : 25/01/19 15:24:49 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

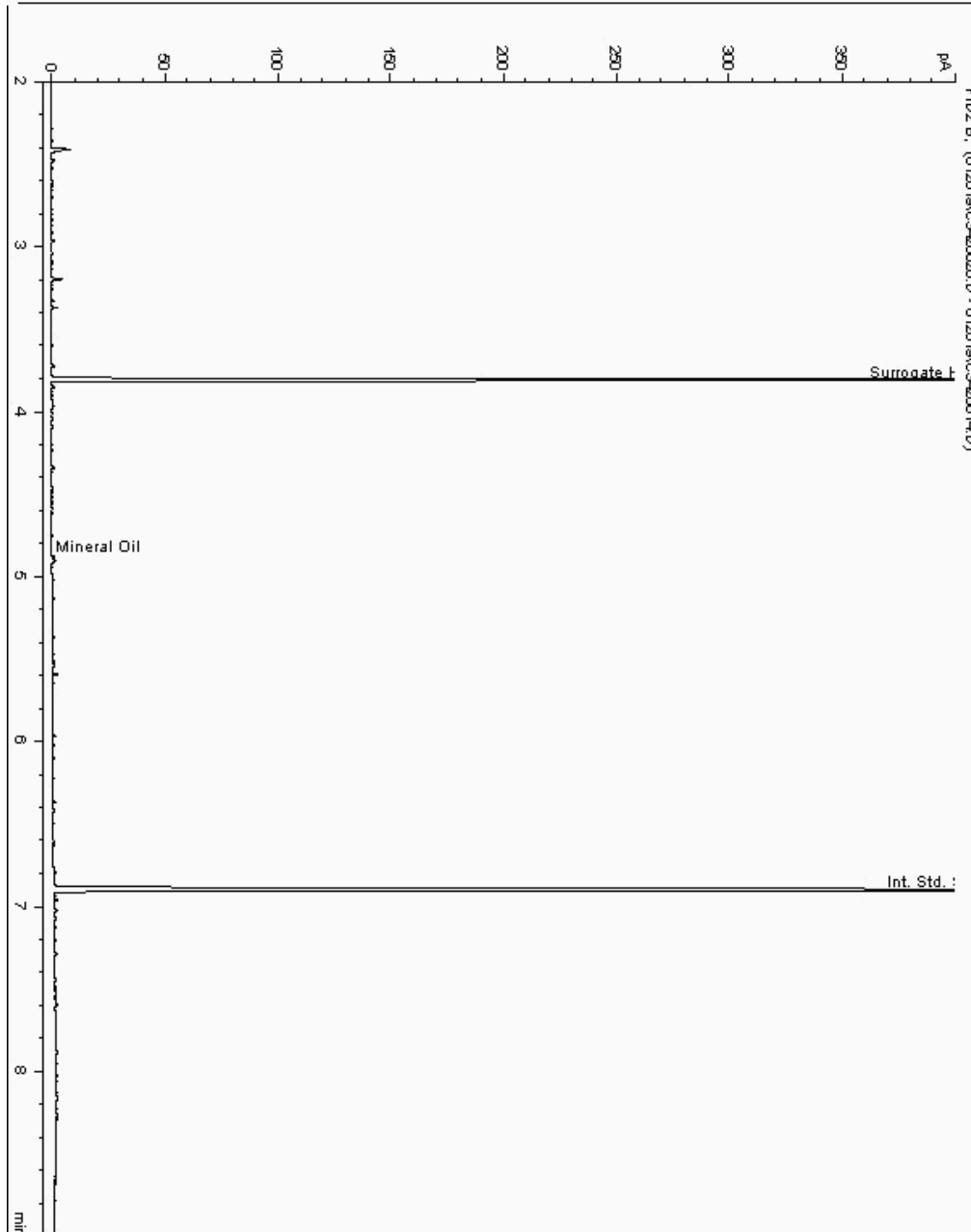
Analysis: Mineral Oil
19178493

Sample No :
Sample ID : BH228

19,178,493 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017429-
Date Acquired : 26/01/19 15:18:05 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

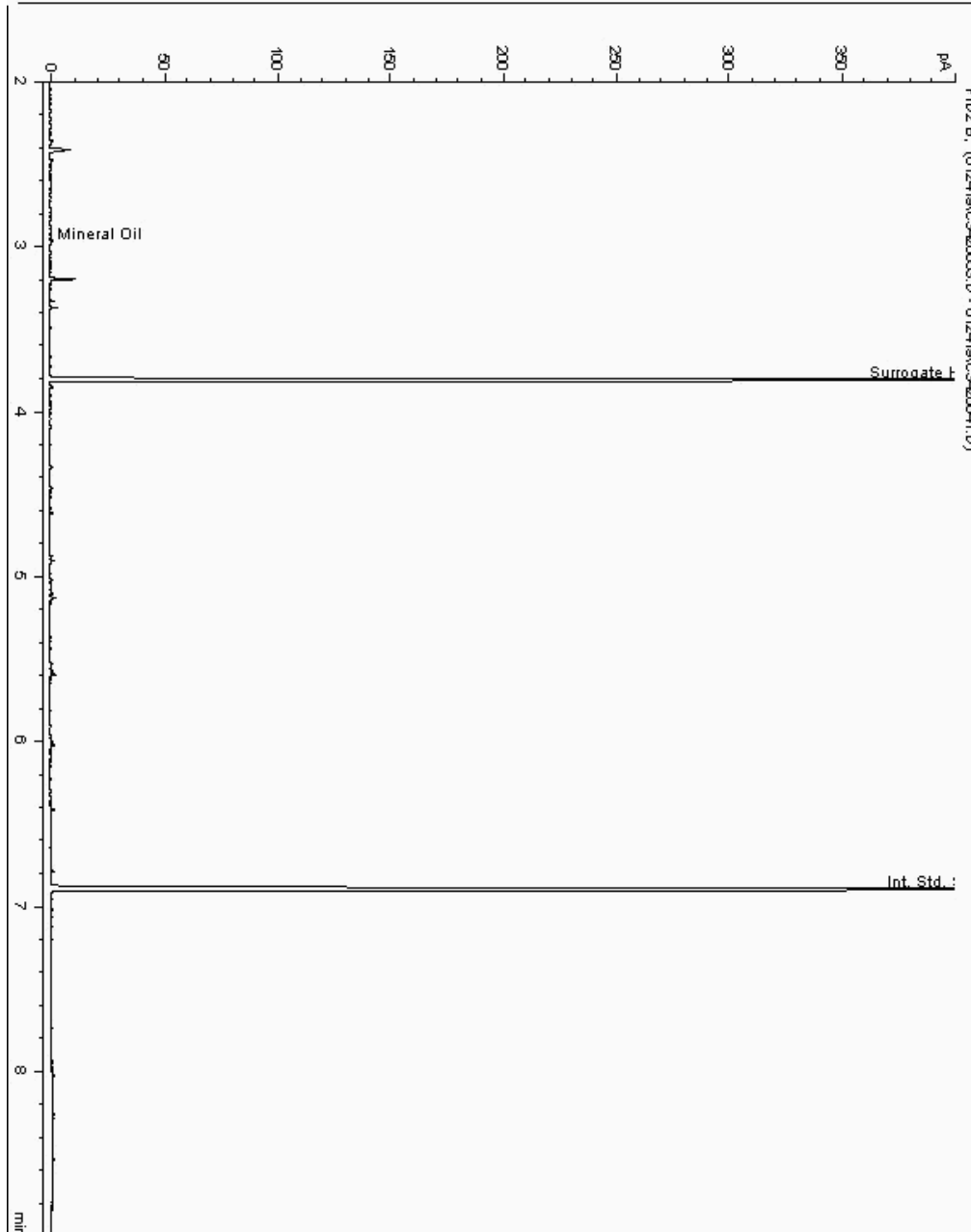
Analysis: Mineral Oil
19178553

Sample No :
Sample ID : BH226

19,178,553 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016346-
Date Acquired : 25/01/19 02:29:22 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

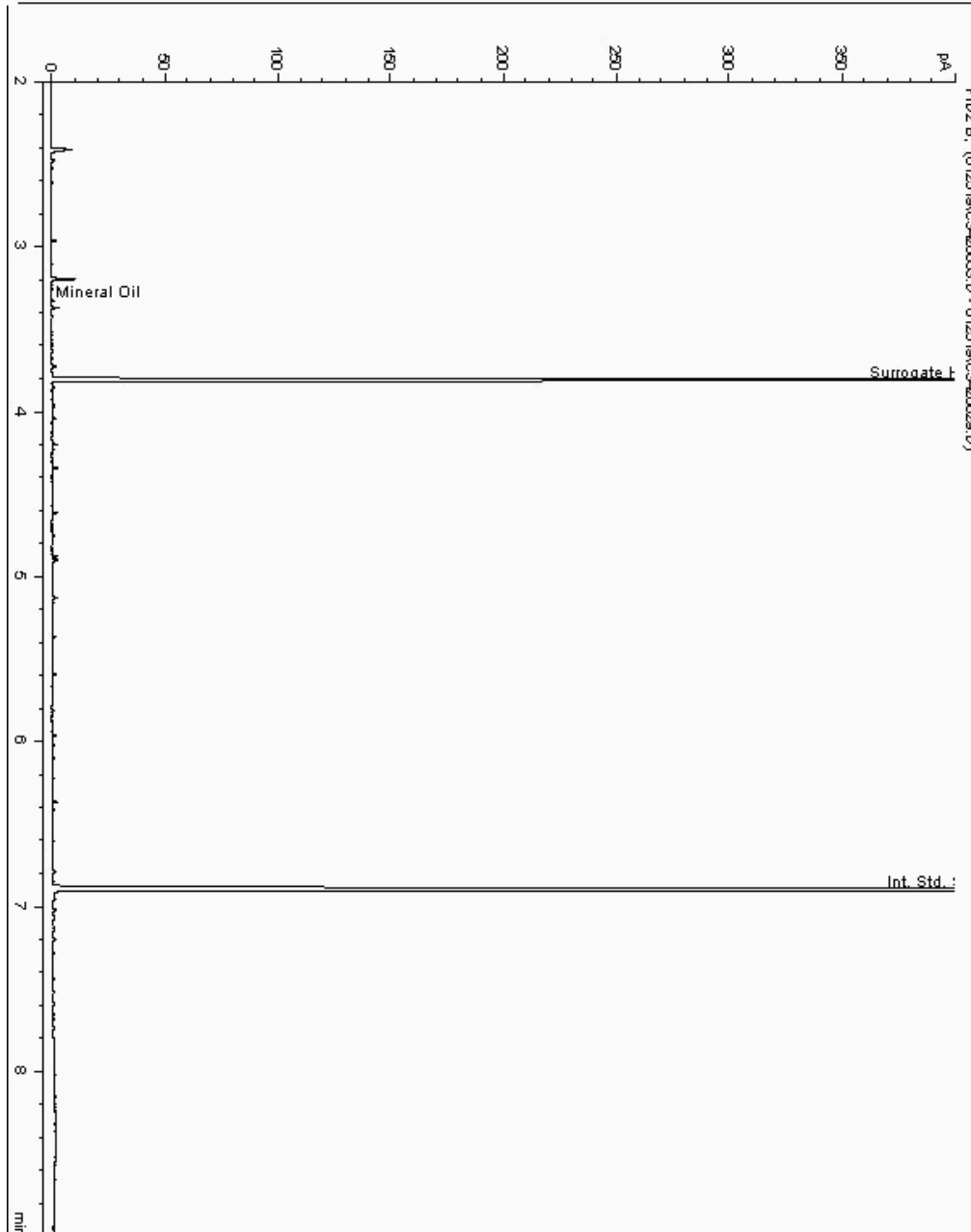
Analysis: Mineral Oil
19178601

Sample No :
Sample ID : BH228

19,178,601 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016842-
Date Acquired : 26/01/19 00:58:35 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

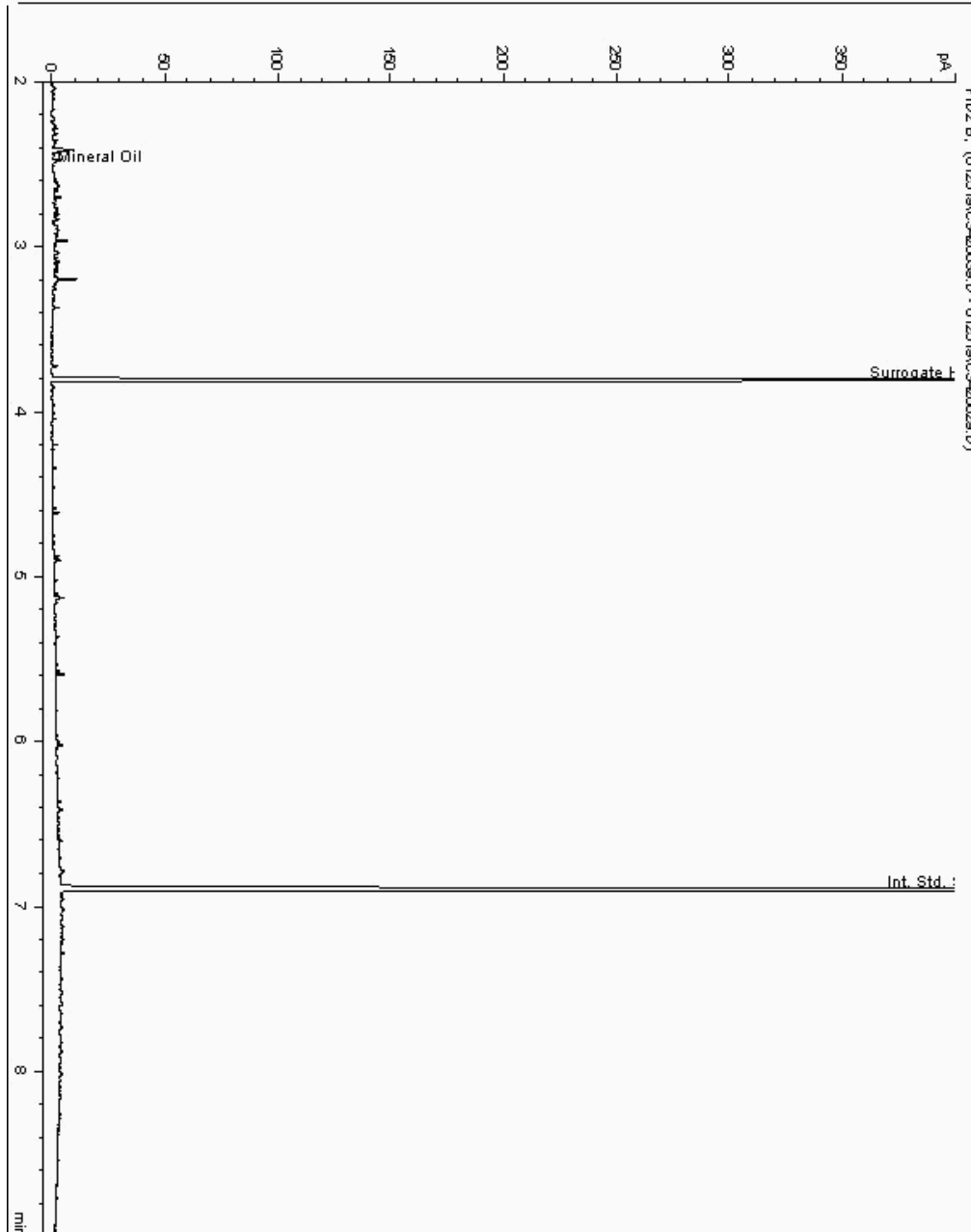
Analysis: Mineral Oil
19178692

Sample No :
Sample ID : BH227

19,178,692Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016492-
Date Acquired : 25/01/19 20:38:15 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

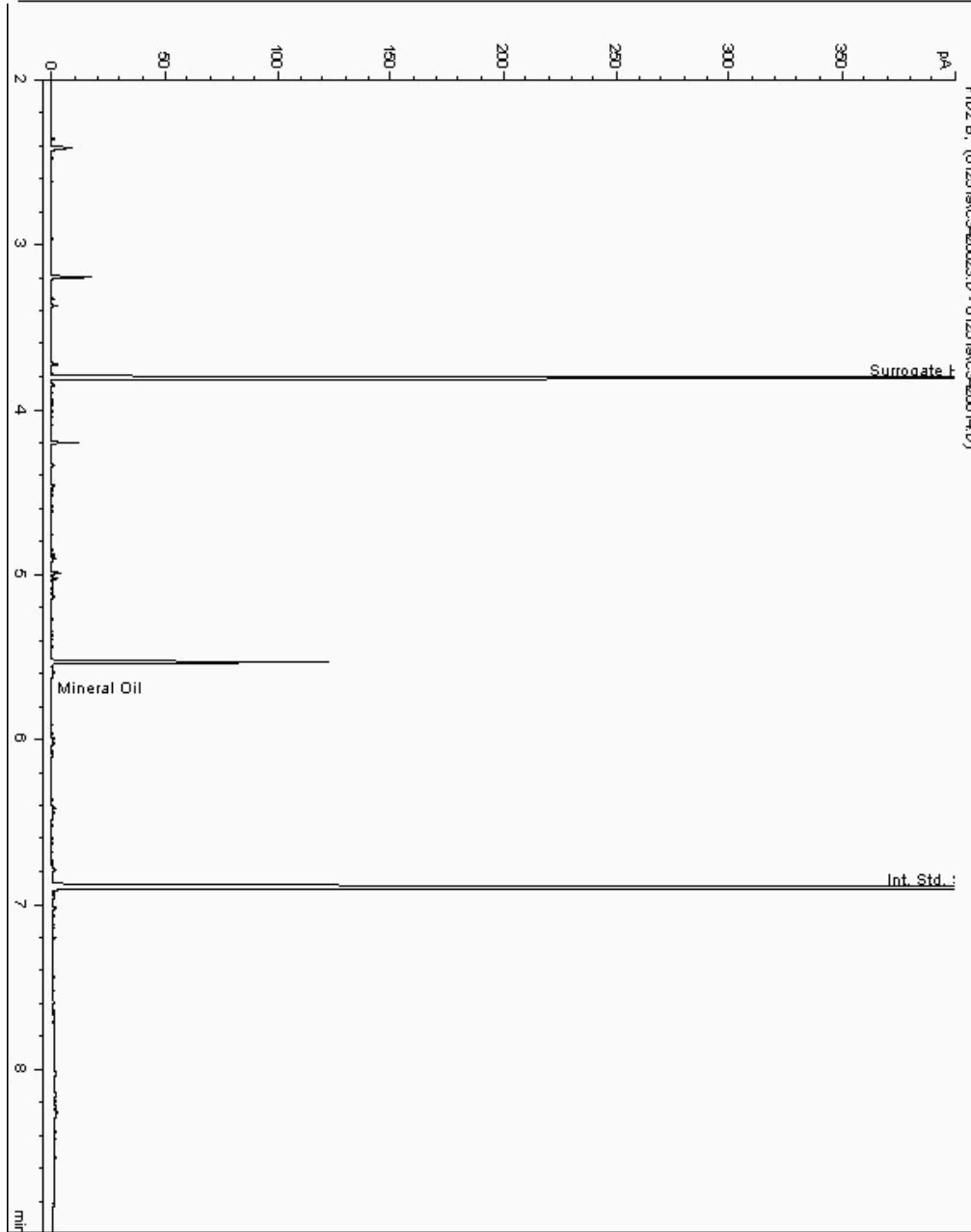
Analysis: Mineral Oil
19178788

Sample No :
Sample ID : BH226

19,178,788Depth : 10.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016324-
Date Acquired : 25/01/19 15:45:03 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

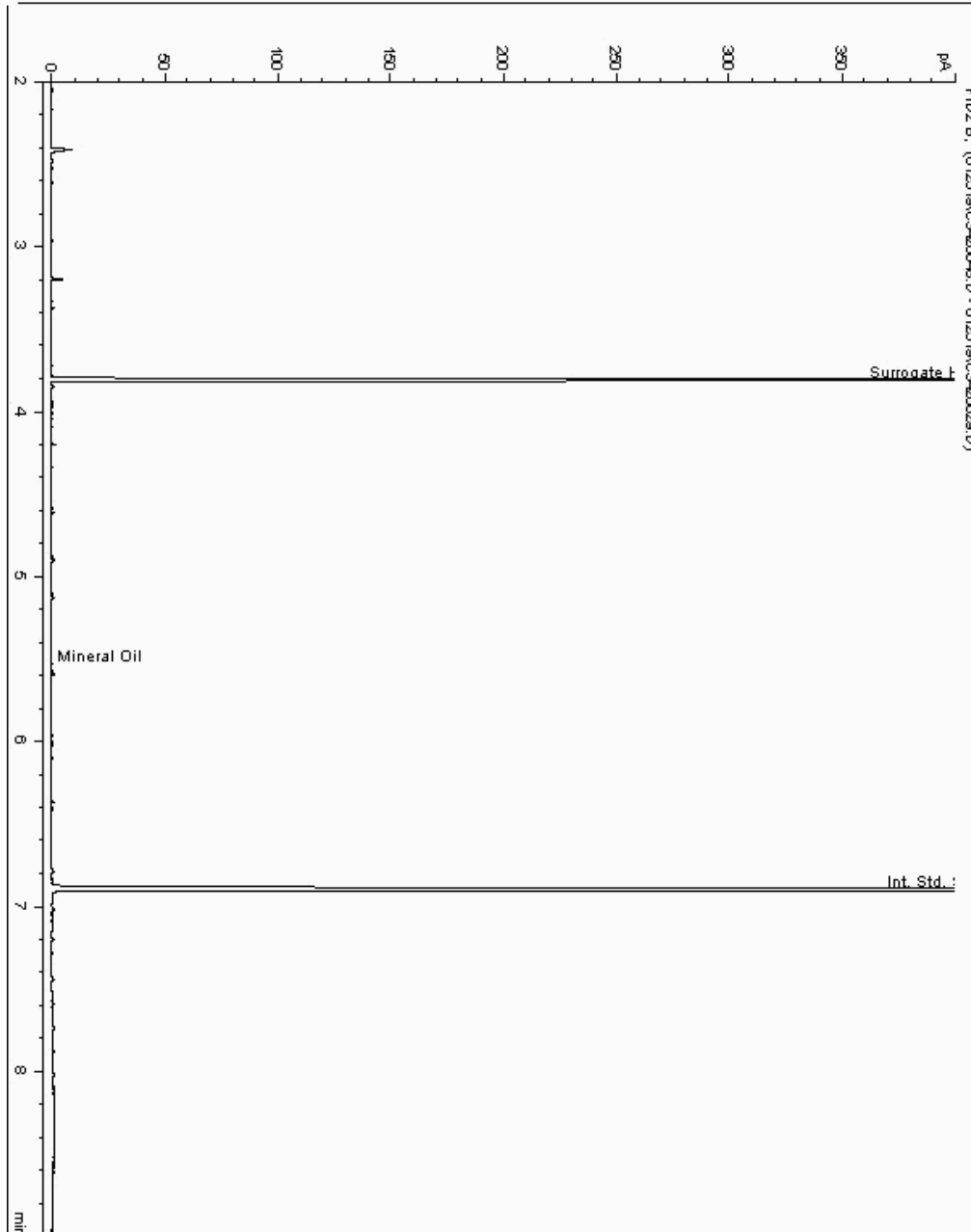
Analysis: Mineral Oil
19178849

Sample No :
Sample ID : BH229

19,178,849 Depth : 7.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017311-
Date Acquired : 25/01/19 23:32:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

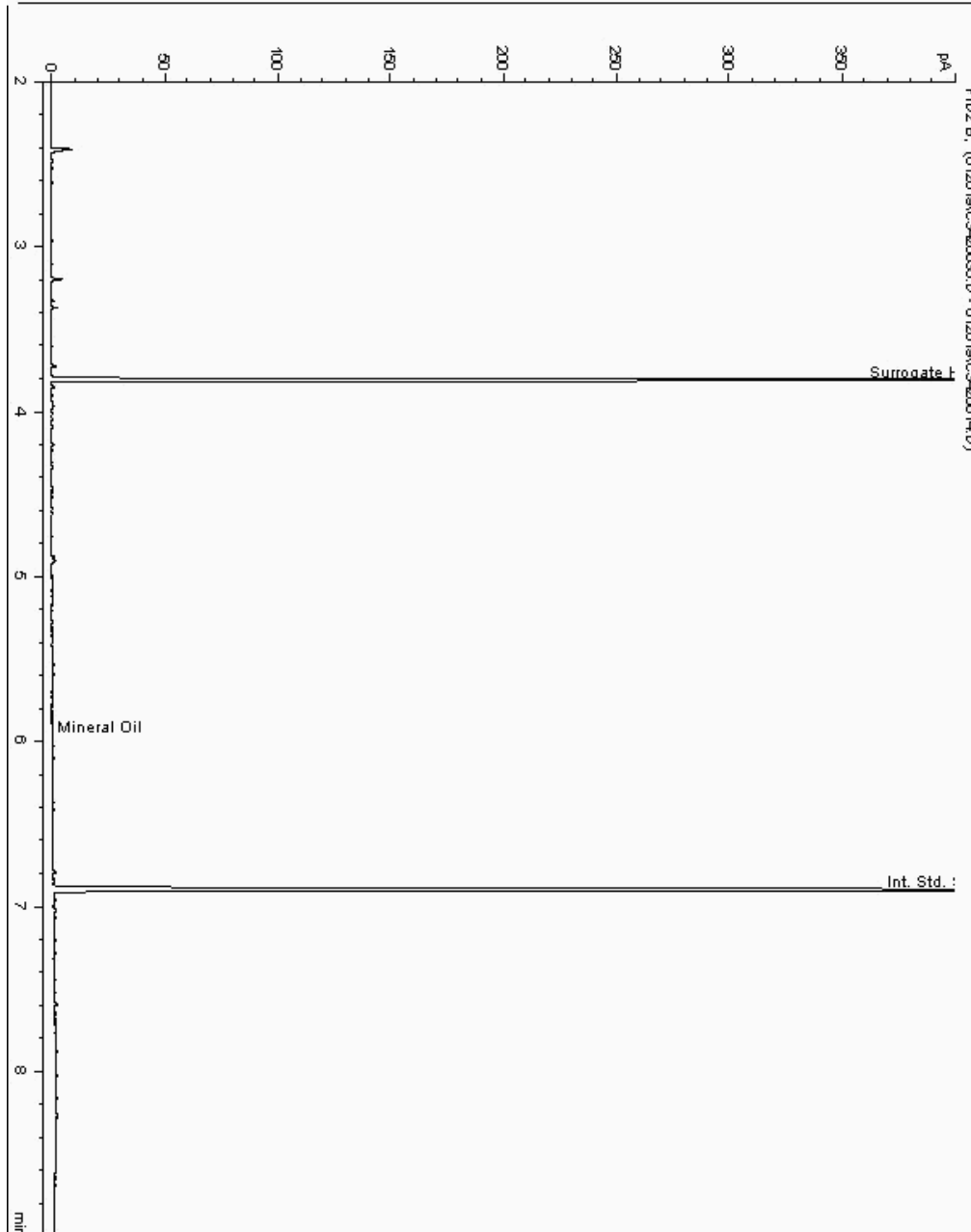
Analysis: Mineral Oil
19178859

Sample No :
Sample ID : BH228

19,178,859 Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016924-
Date Acquired : 26/01/19 17:57:39 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

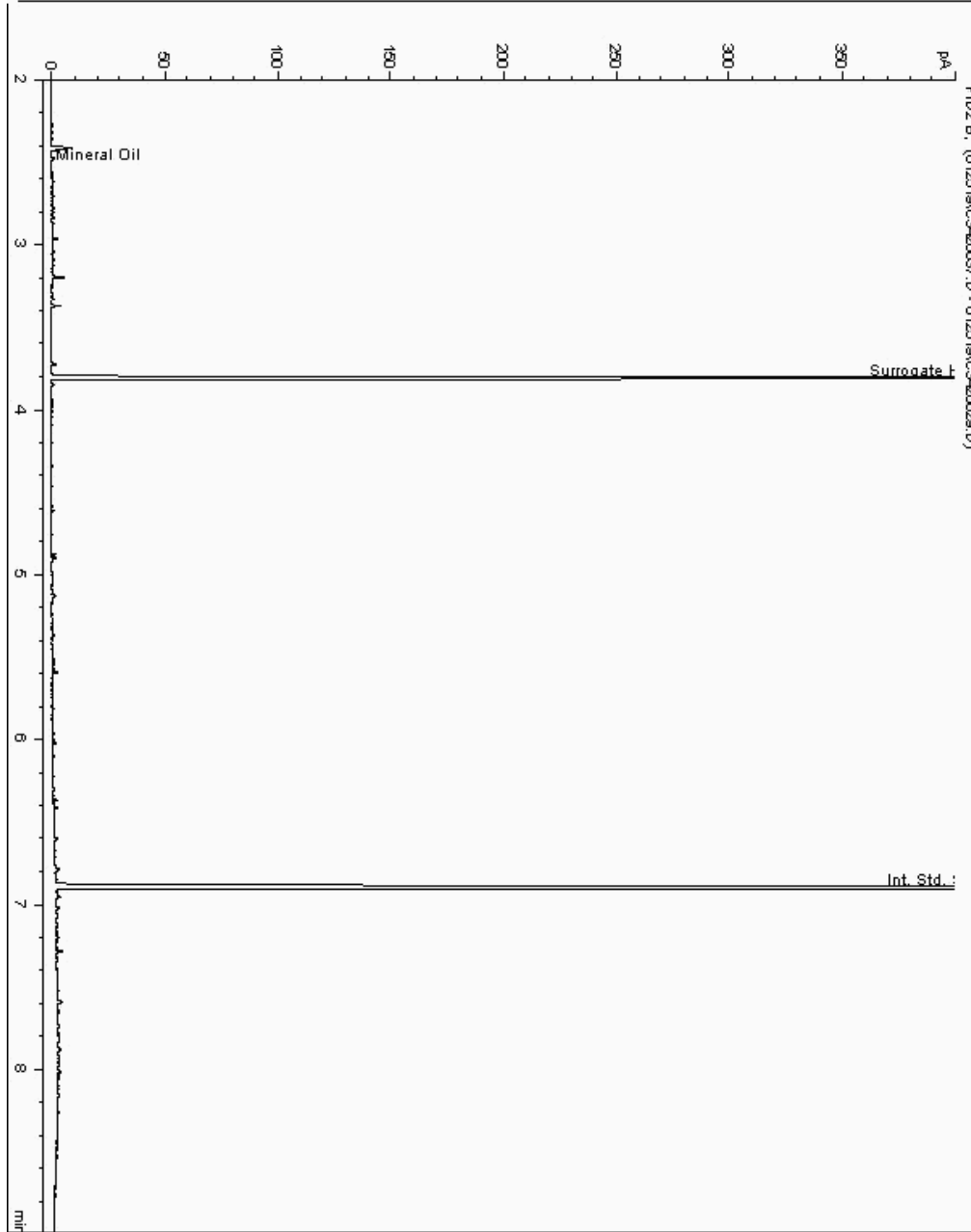
Analysis: Mineral Oil
19178892

Sample No :
Sample ID : BH229

19,178,892Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017234-
Date Acquired : 25/01/19 20:05:44 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

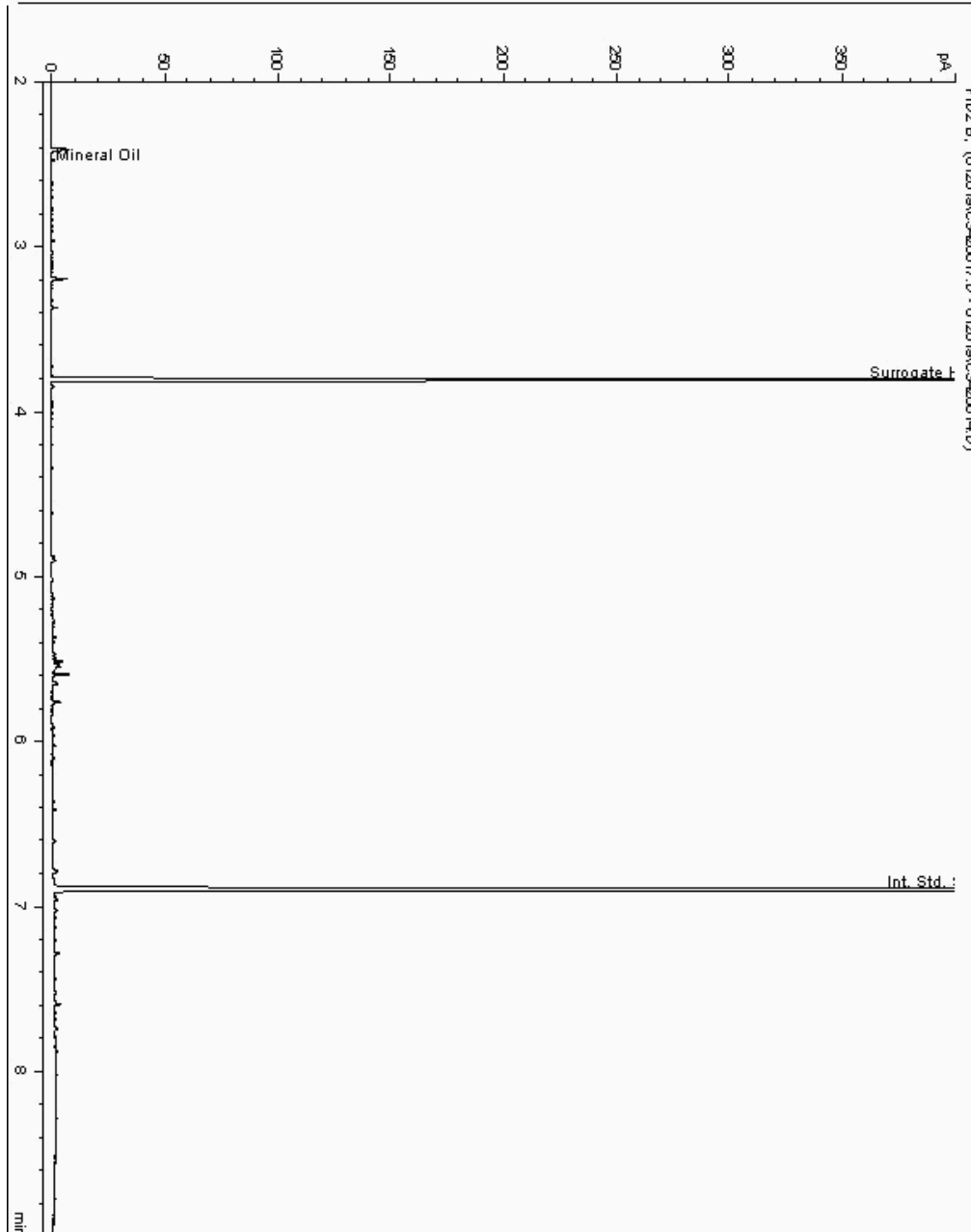
Analysis: Mineral Oil
19178940

Sample No :
Sample ID : BH229

19,178,940Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017289-
Date Acquired : 26/01/19 12:30:51 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

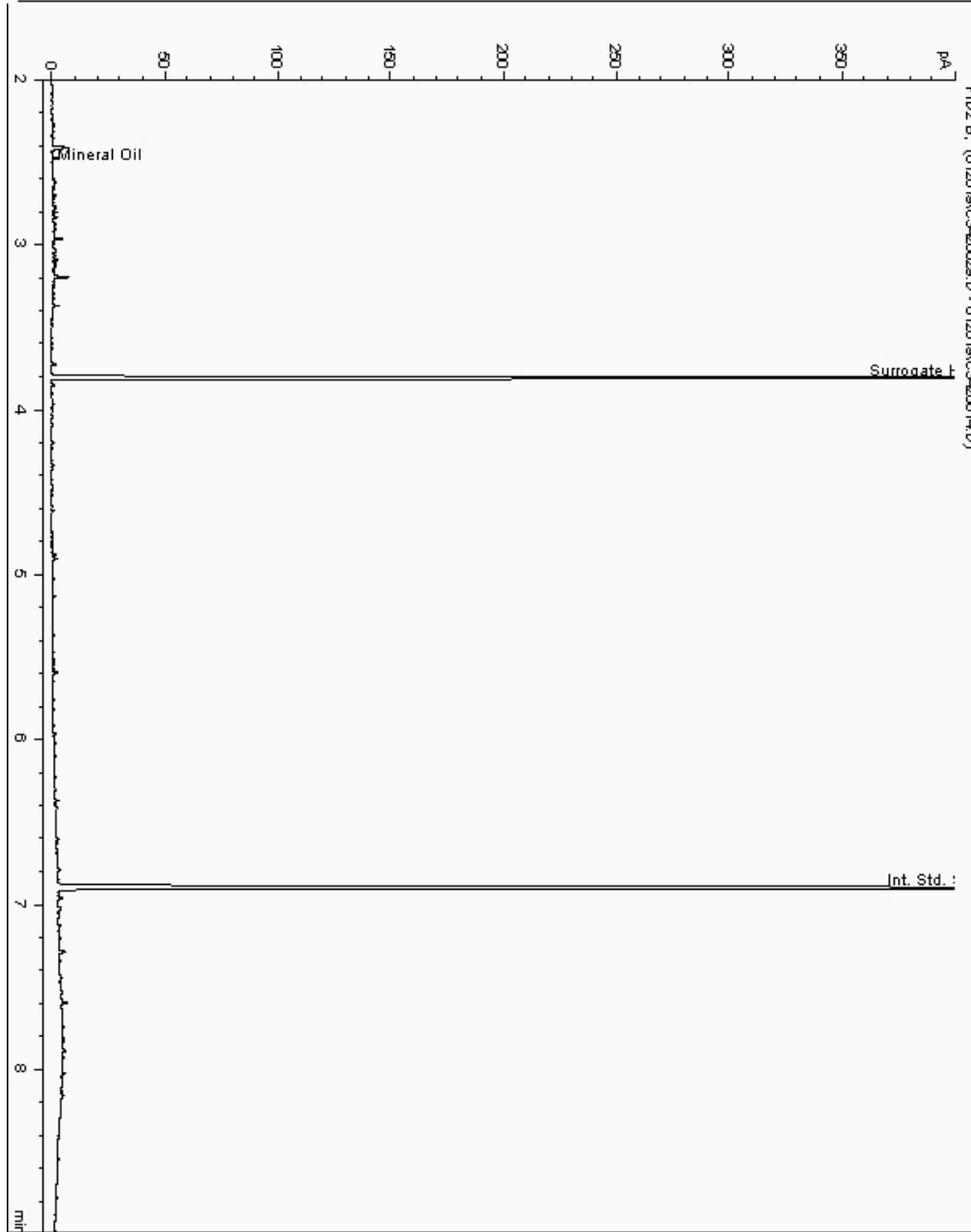
Analysis: Mineral Oil
19178950

Sample No :
Sample ID : BH229

19,178,950 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017168-
Date Acquired : 26/01/19 16:11:10 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

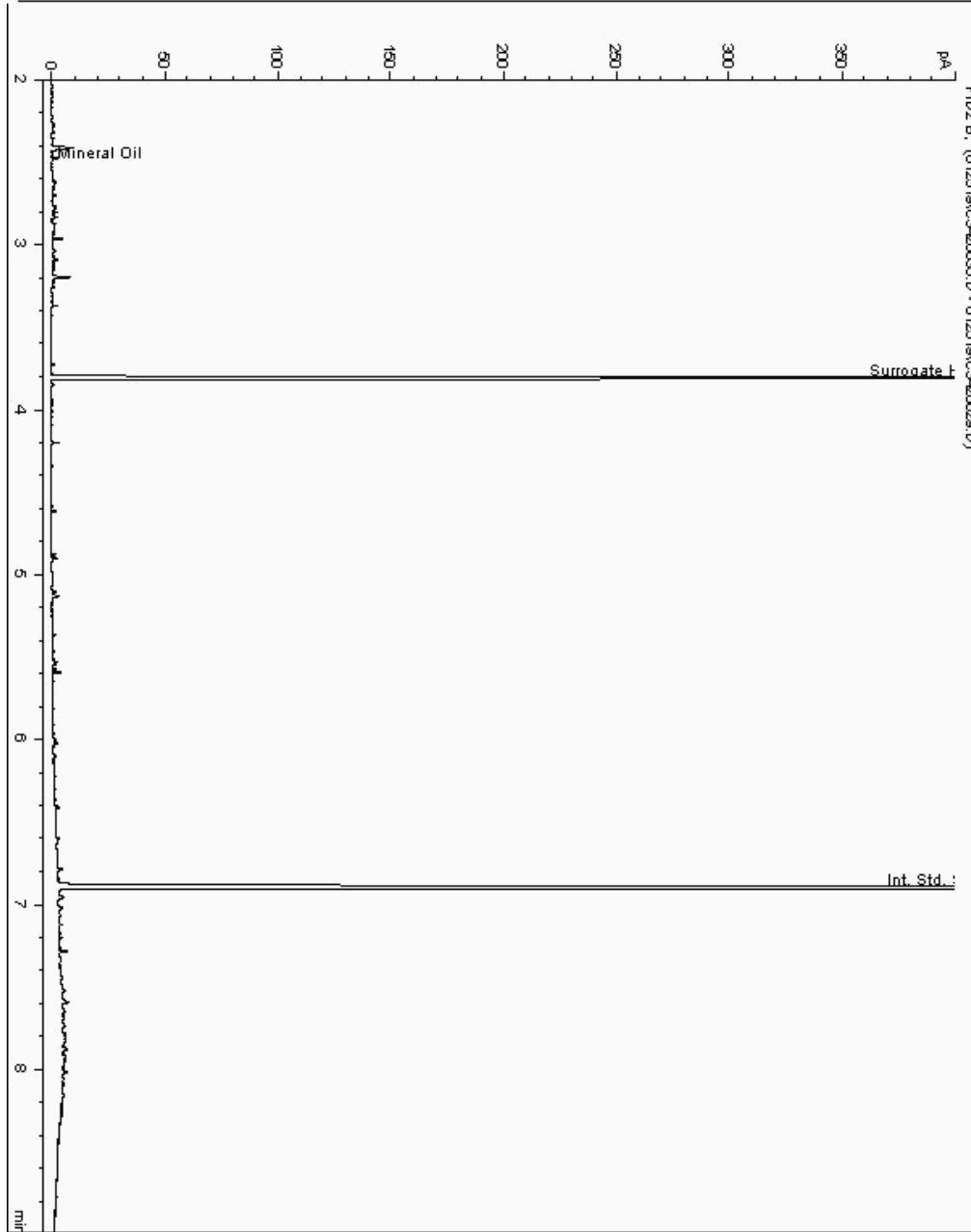
Analysis: Mineral Oil
19178993

Sample No :
Sample ID : BH226

19,178,993Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016269-
Date Acquired : 25/01/19 19:33:23 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

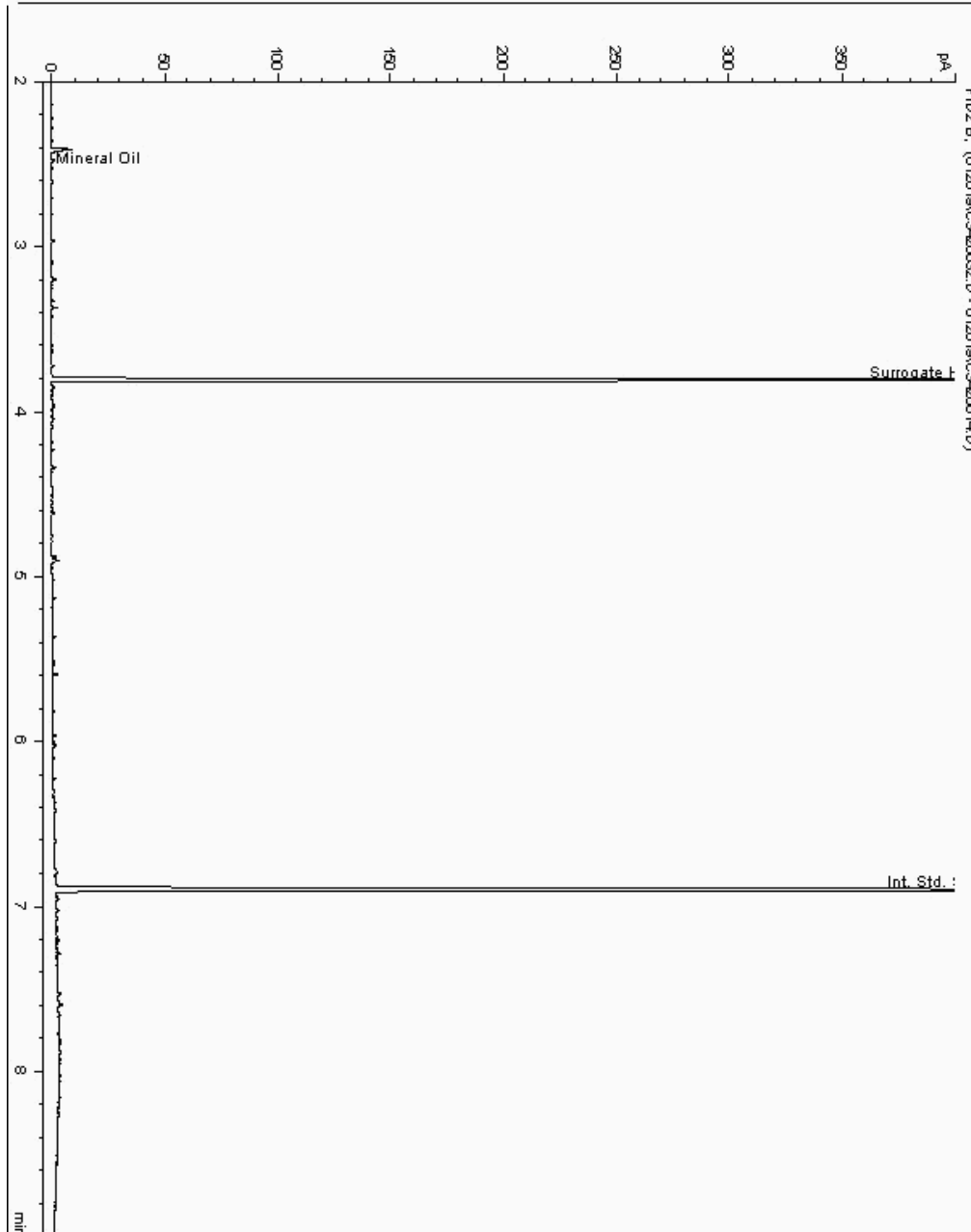
Analysis: Mineral Oil
19179005

Sample No :
Sample ID : BH228

19,179,005Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016752-
Date Acquired : 26/01/19 17:04:28 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

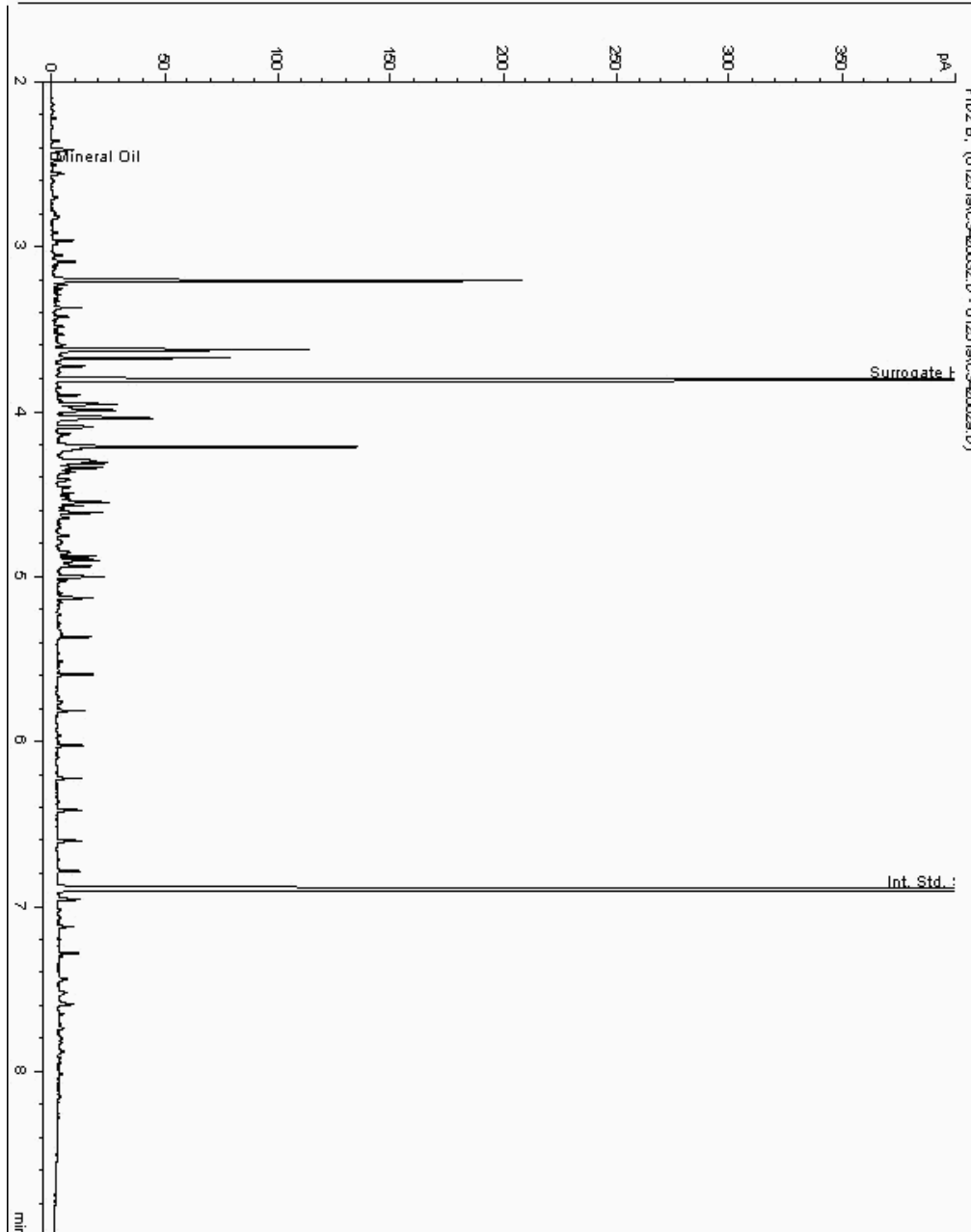
Analysis: Mineral Oil
19179057

Sample No :
Sample ID : BH229

19,179,057Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017112-
Date Acquired : 25/01/19 18:40:52 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

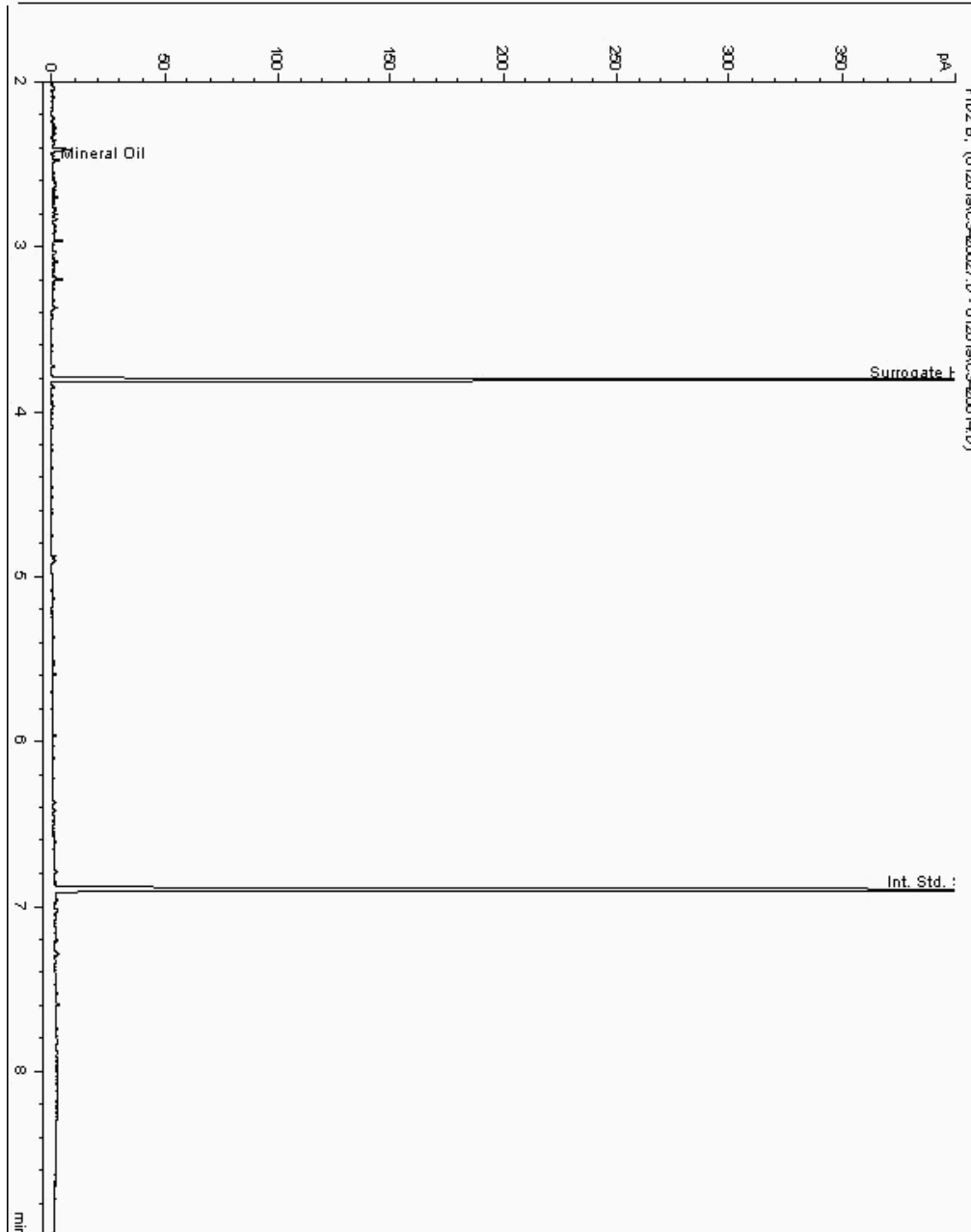
Analysis: Mineral Oil
19179117

Sample No :
Sample ID : BH226

19,179,117Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016171-
Date Acquired : 26/01/19 15:38:30 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

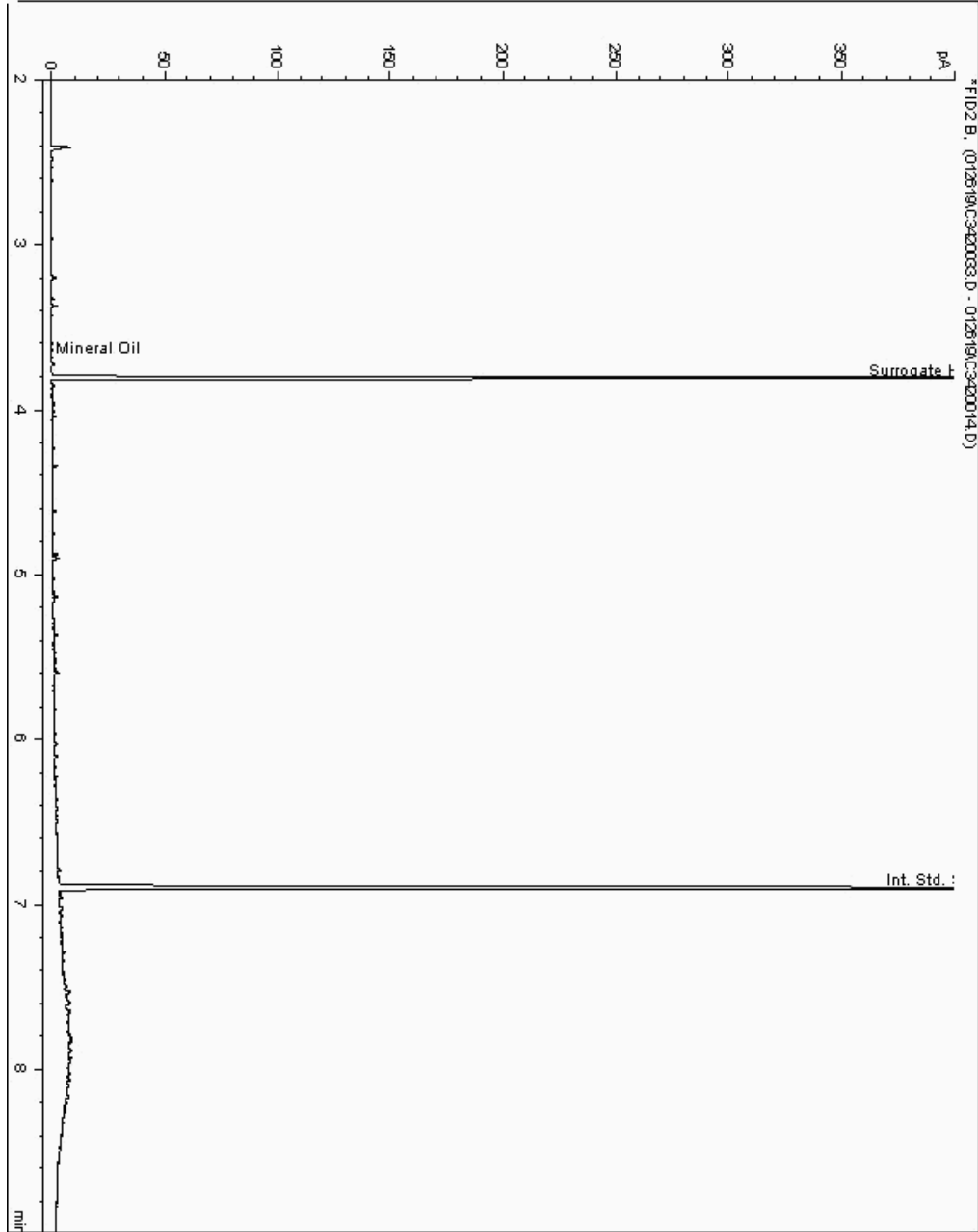
Analysis: Mineral Oil
19179122

Sample No :
Sample ID : BH226

19,179,122Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016089-
Date Acquired : 26/01/19 17:24:56 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

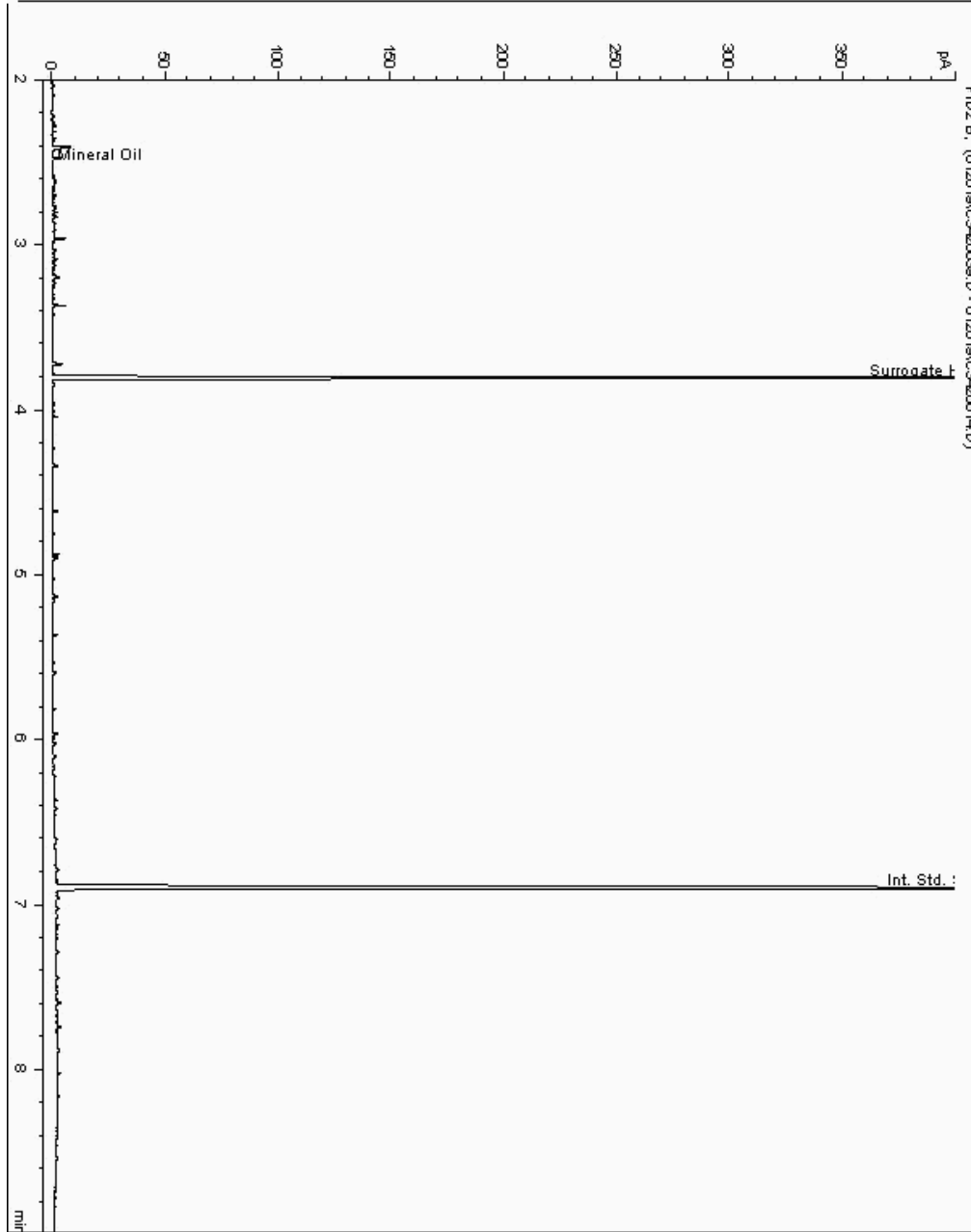
Analysis: Mineral Oil
19179171

Sample No :
Sample ID : BH226

19,179,171 Depth : 15.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016373-
Date Acquired : 26/01/19 19:13:50 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

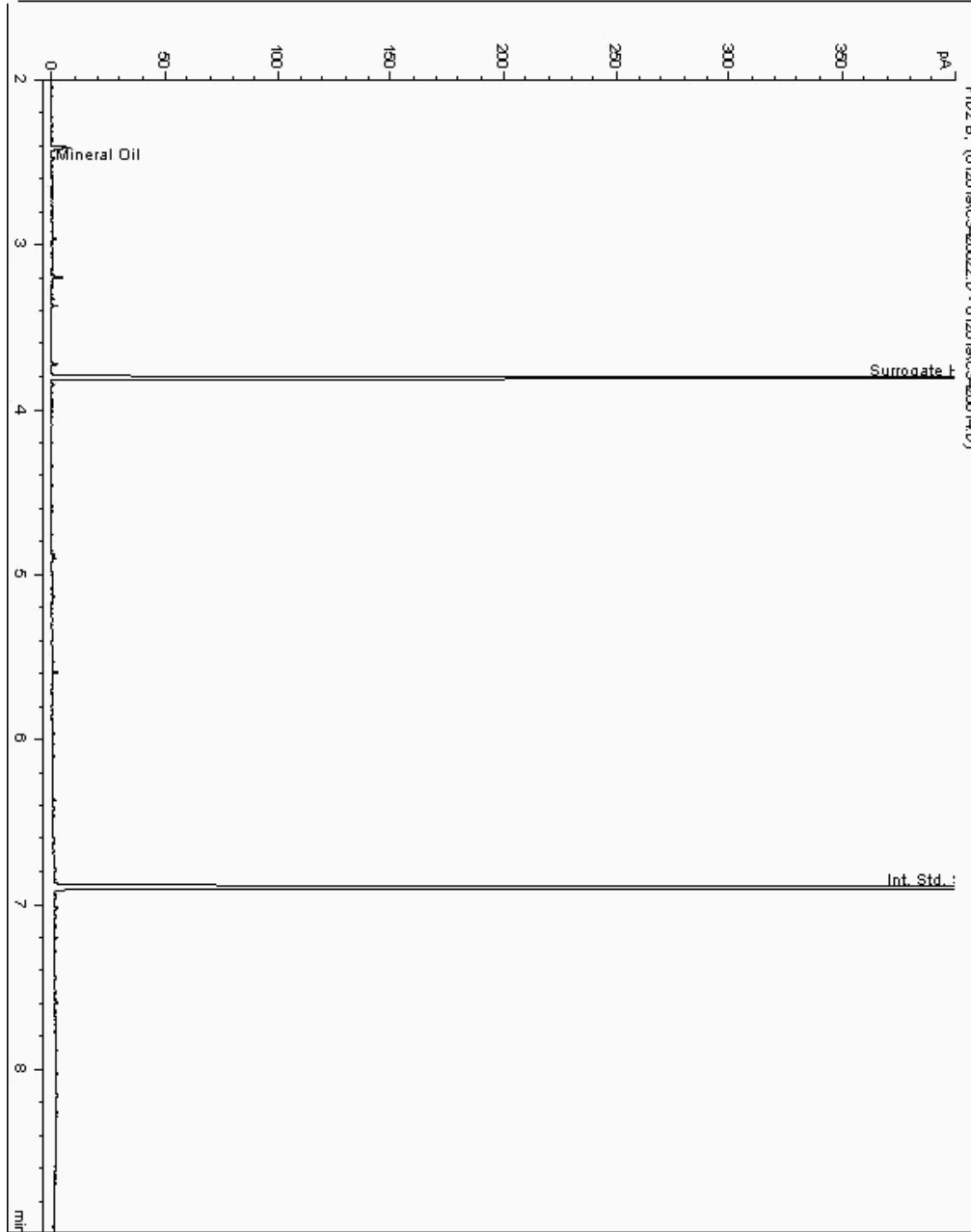
Analysis: Mineral Oil
19179209

Sample No :
Sample ID : BH227

19,179,209Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016616-
Date Acquired : 26/01/19 14:04:37 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

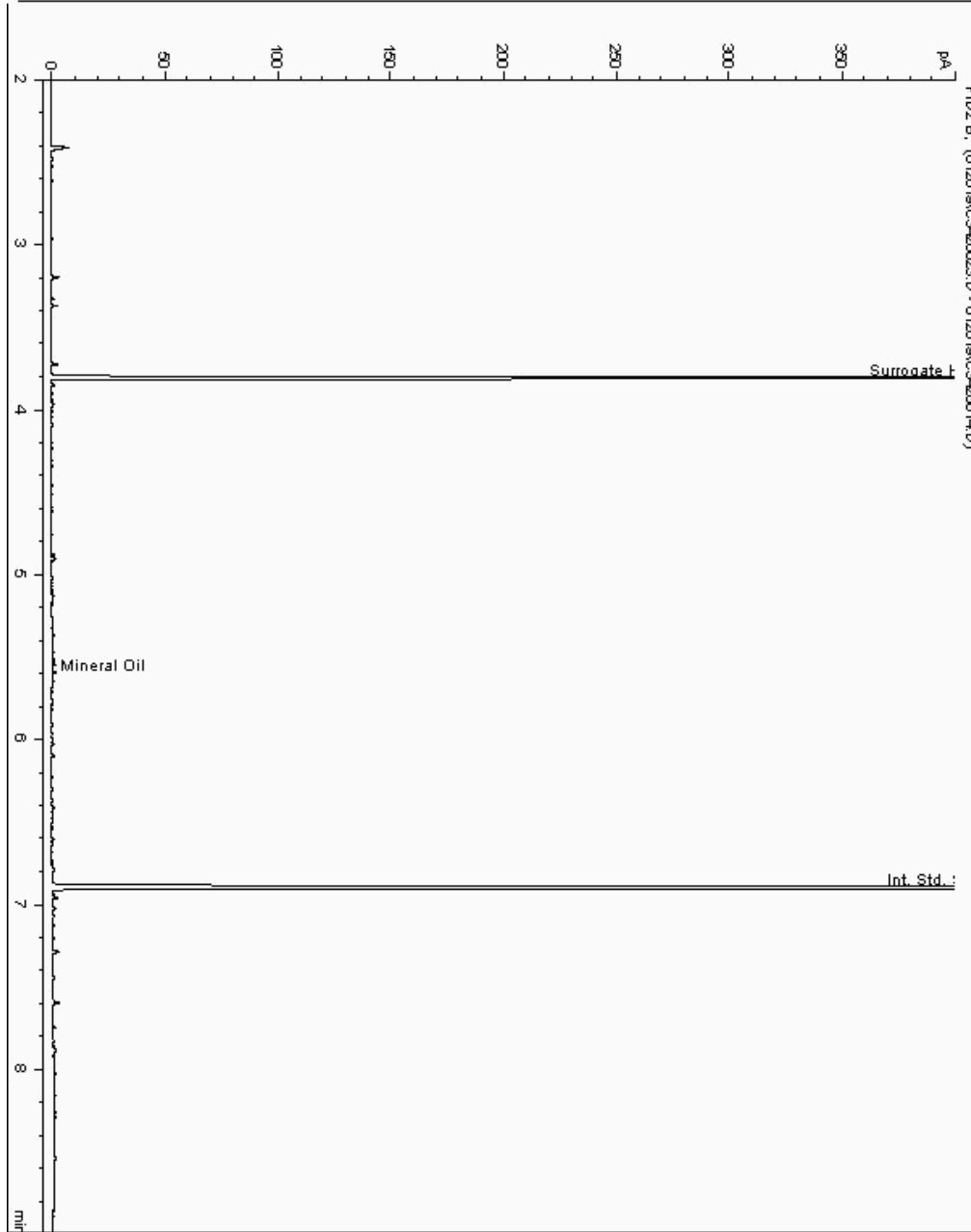
Analysis: Mineral Oil
19179229

Sample No :
Sample ID : BH227

19,179,229 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016462-
Date Acquired : 26/01/19 14:24:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

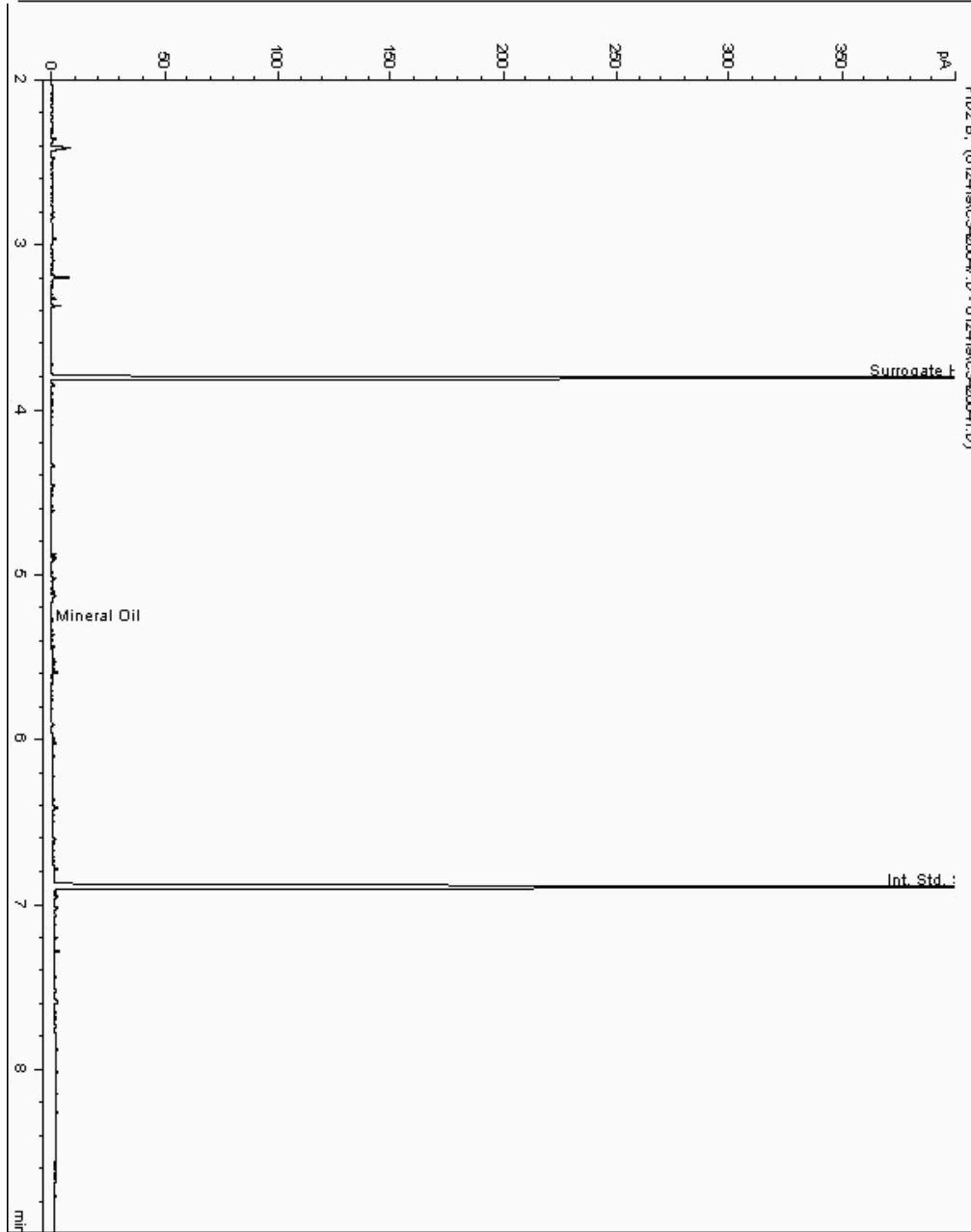
Analysis: Mineral Oil
19179261

Sample No :
Sample ID : BH226

19,179,261 Depth : 4.30 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016217-
Date Acquired : 25/01/19 00:27:05 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

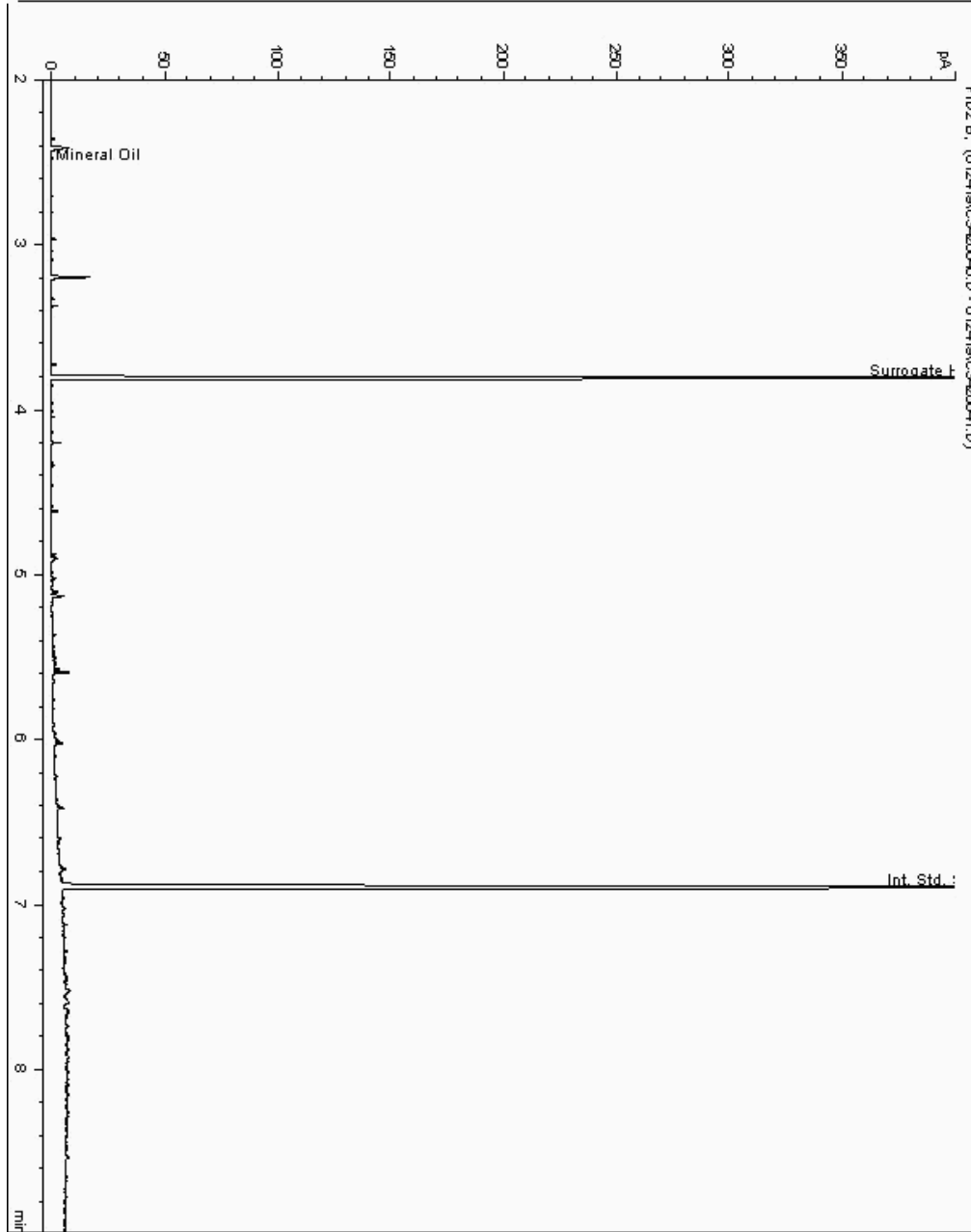
Analysis: Mineral Oil
19179272

Sample No :
Sample ID : BH227

19,179,272Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016433-
Date Acquired : 24/01/19 23:54:59 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

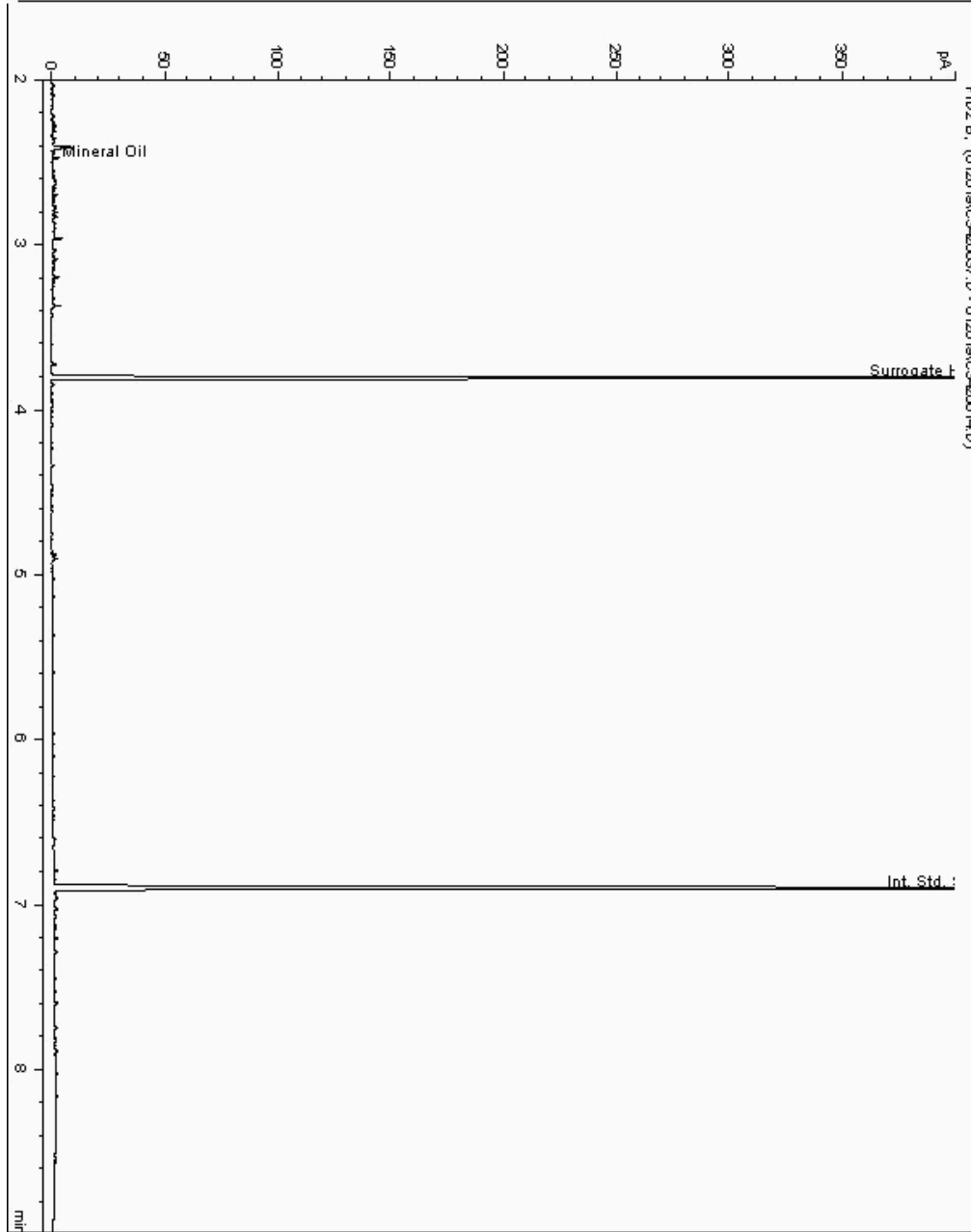
Analysis: Mineral Oil
19179286

Sample No :
Sample ID : BH226

19,179,286Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016149-
Date Acquired : 26/01/19 18:40:45 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

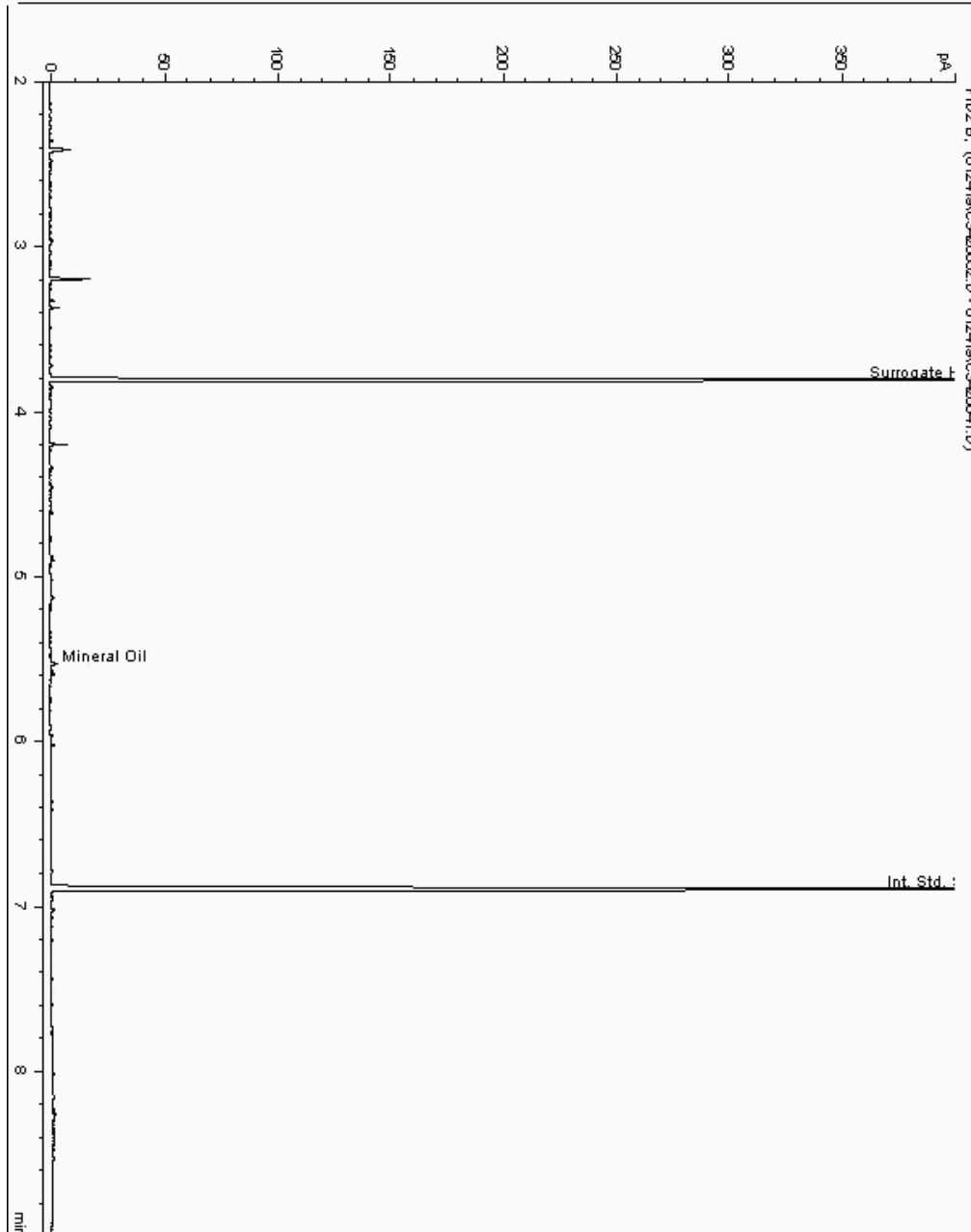
Analysis: Mineral Oil
19179316

Sample No :
Sample ID : BH227

19,179,316 Depth : 9.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016643-
Date Acquired : 25/01/19 02:09:23 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

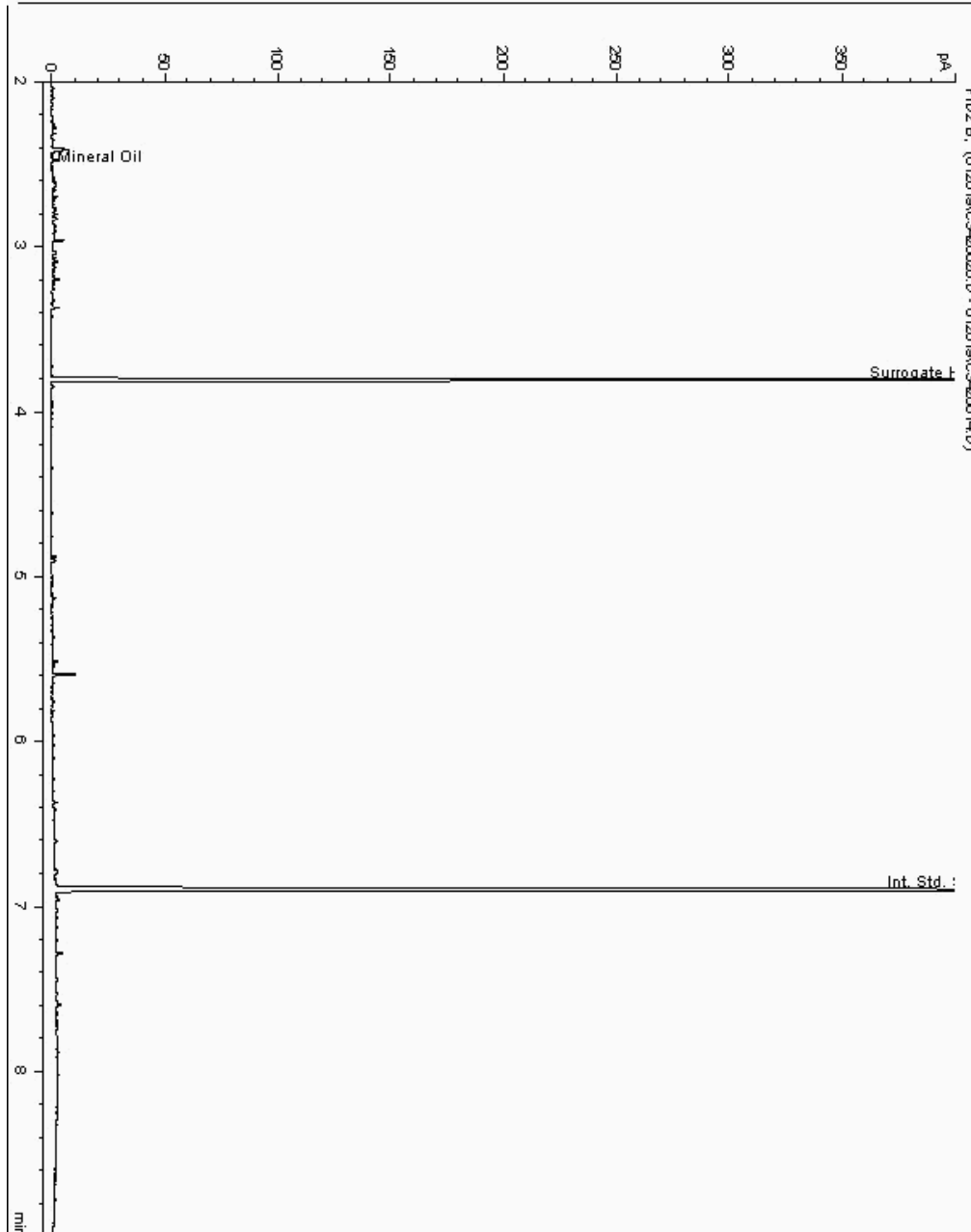
Analysis: Mineral Oil
19179356

Sample No :
Sample ID : BH226

19,179,356 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016194-
Date Acquired : 26/01/19 13:32:06 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

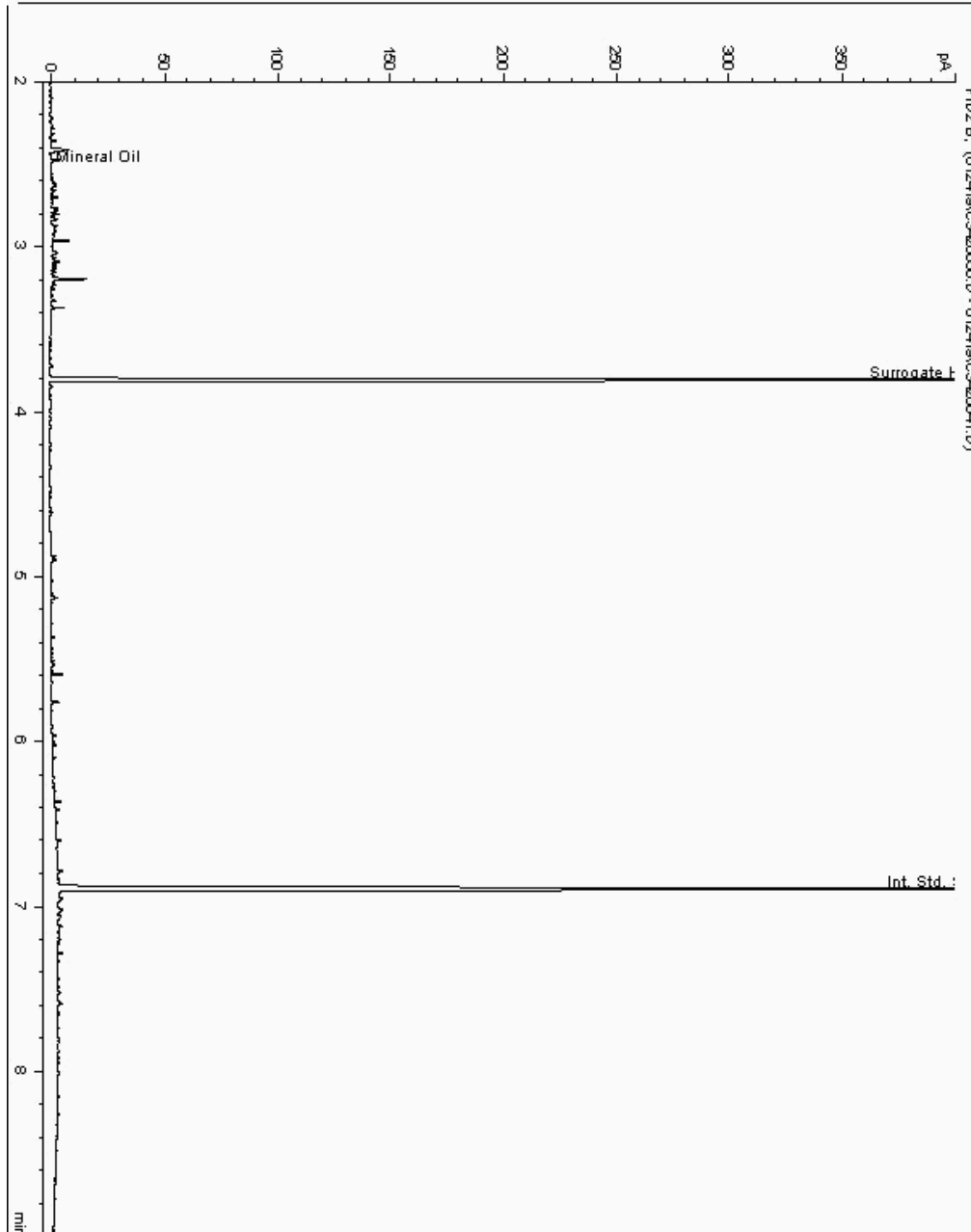
Analysis: Mineral Oil
19179372

Sample No :
Sample ID : BH227

19,179,372 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016593-
Date Acquired : 25/01/19 03:21:46 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

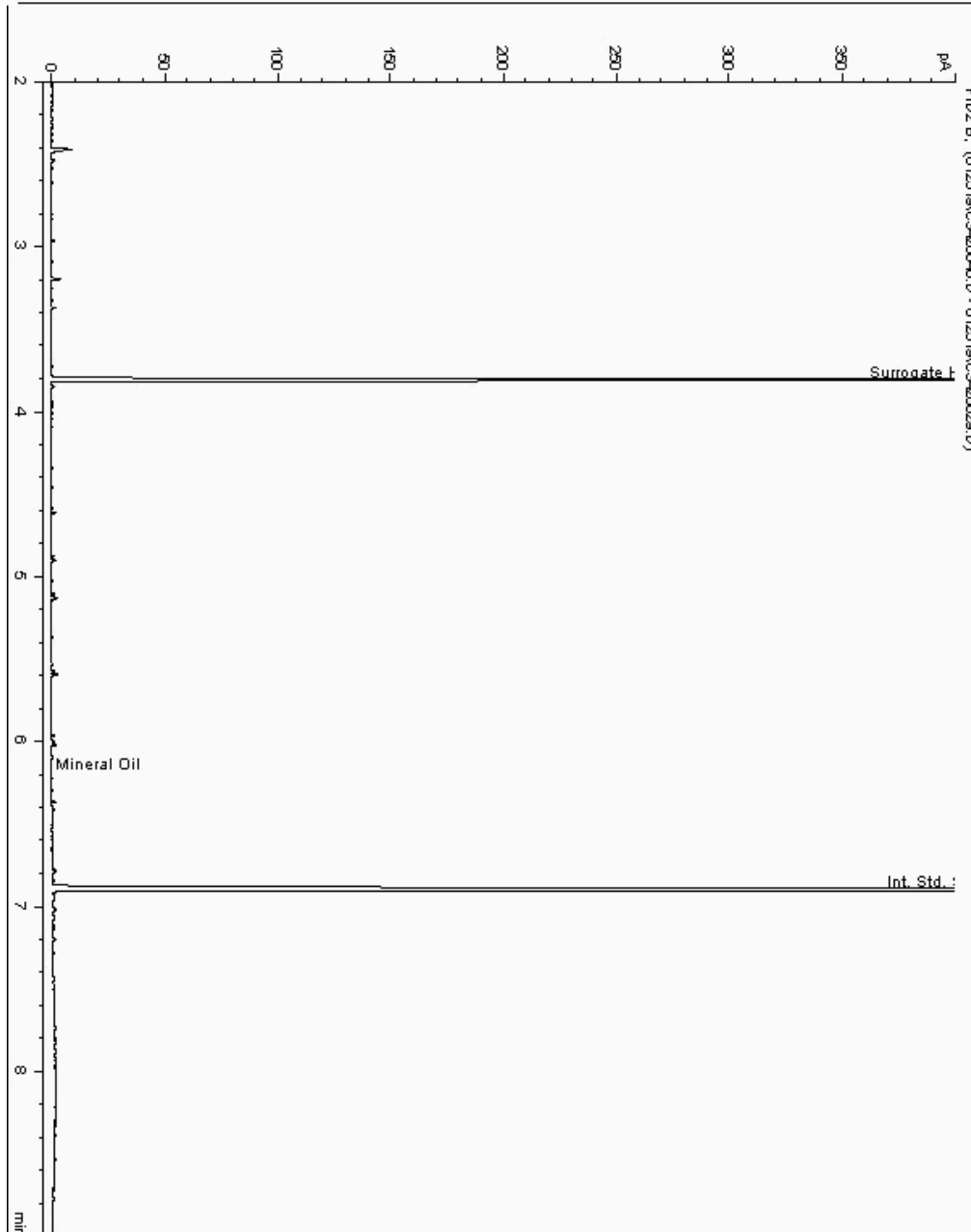
Analysis: Mineral Oil
19179480

Sample No :
Sample ID : BH229

19,179,480 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017334-
Date Acquired : 25/01/19 22:52:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

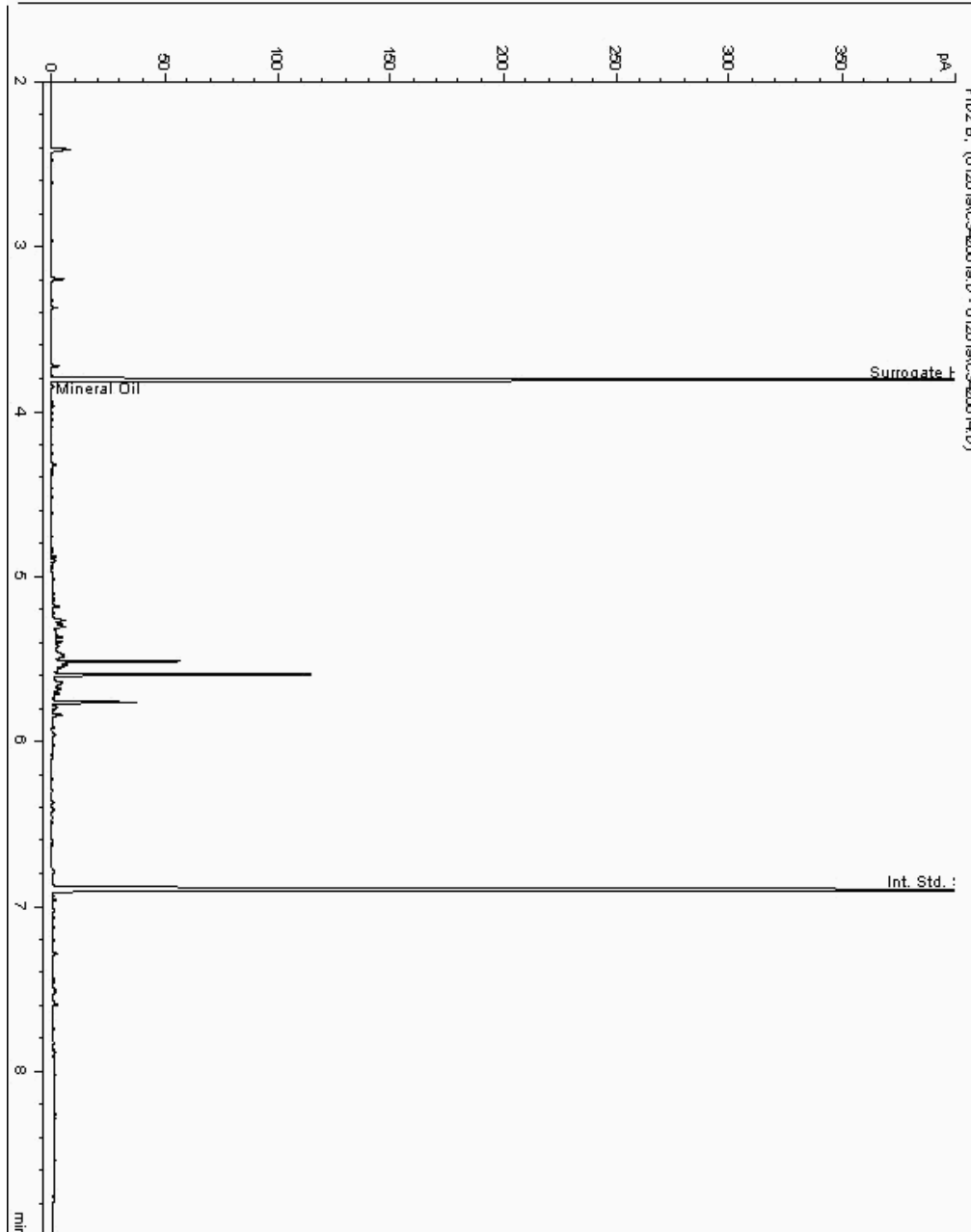
Analysis: Mineral Oil
19179609

Sample No :
Sample ID : BH227

19,179,609 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016547-
Date Acquired : 26/01/19 13:11:45 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

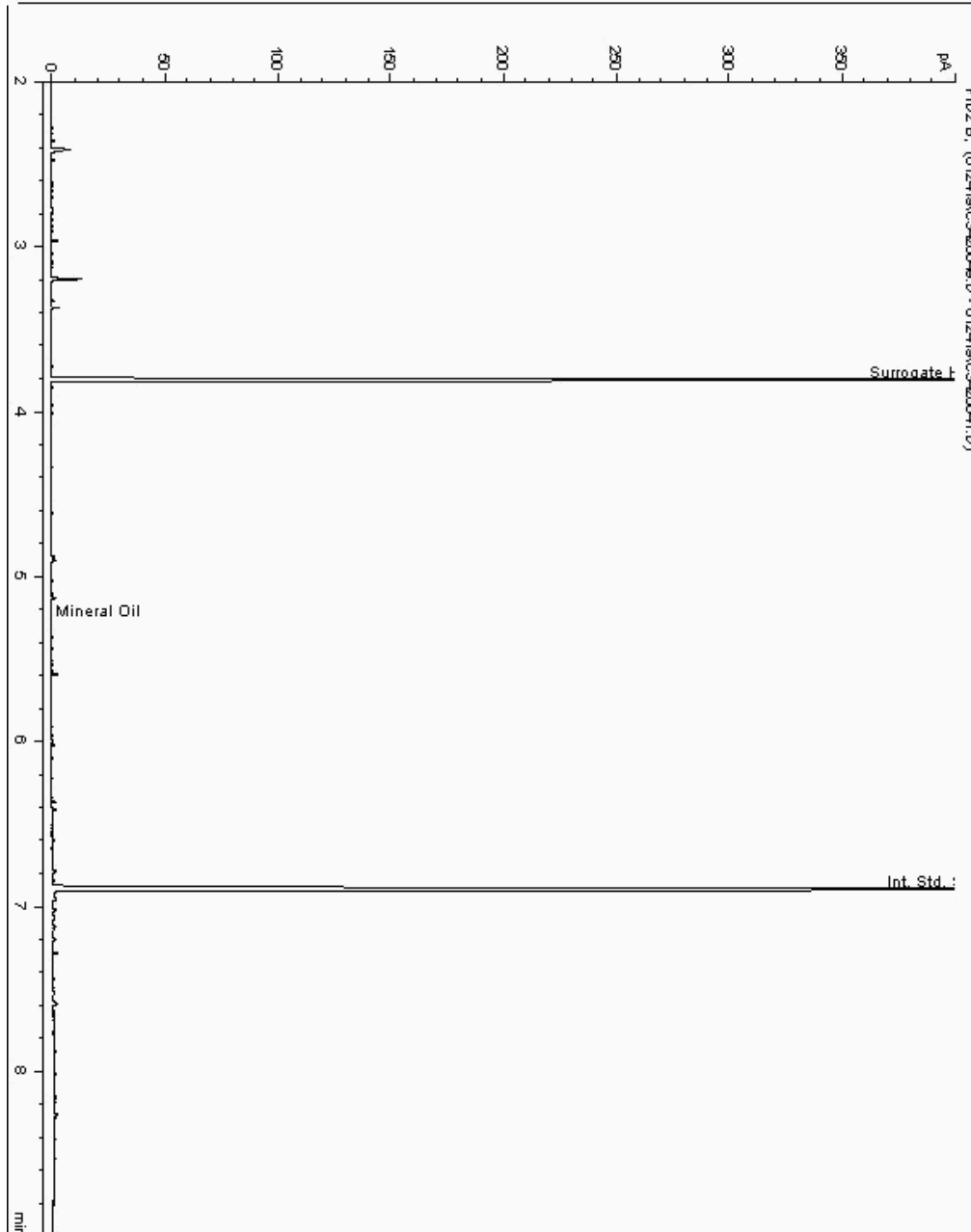
Analysis: Mineral Oil
19179631

Sample No :
Sample ID : BH226

19,179,631 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016240-
Date Acquired : 25/01/19 01:07:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

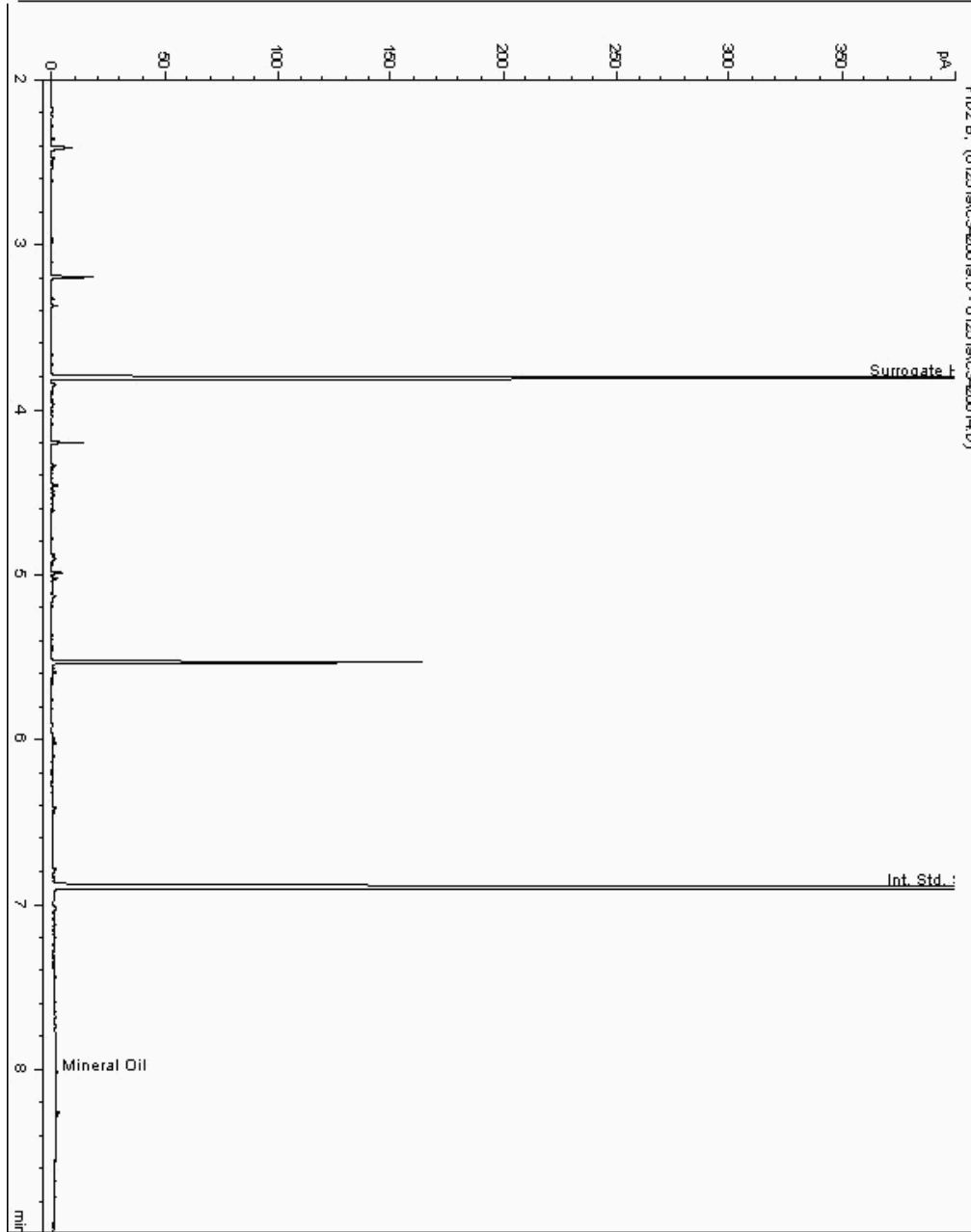
Analysis: Mineral Oil
19179749

Sample No :
Sample ID : BH228

19,179,749 Depth : 8.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016961-
Date Acquired : 25/01/19 14:20:03 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

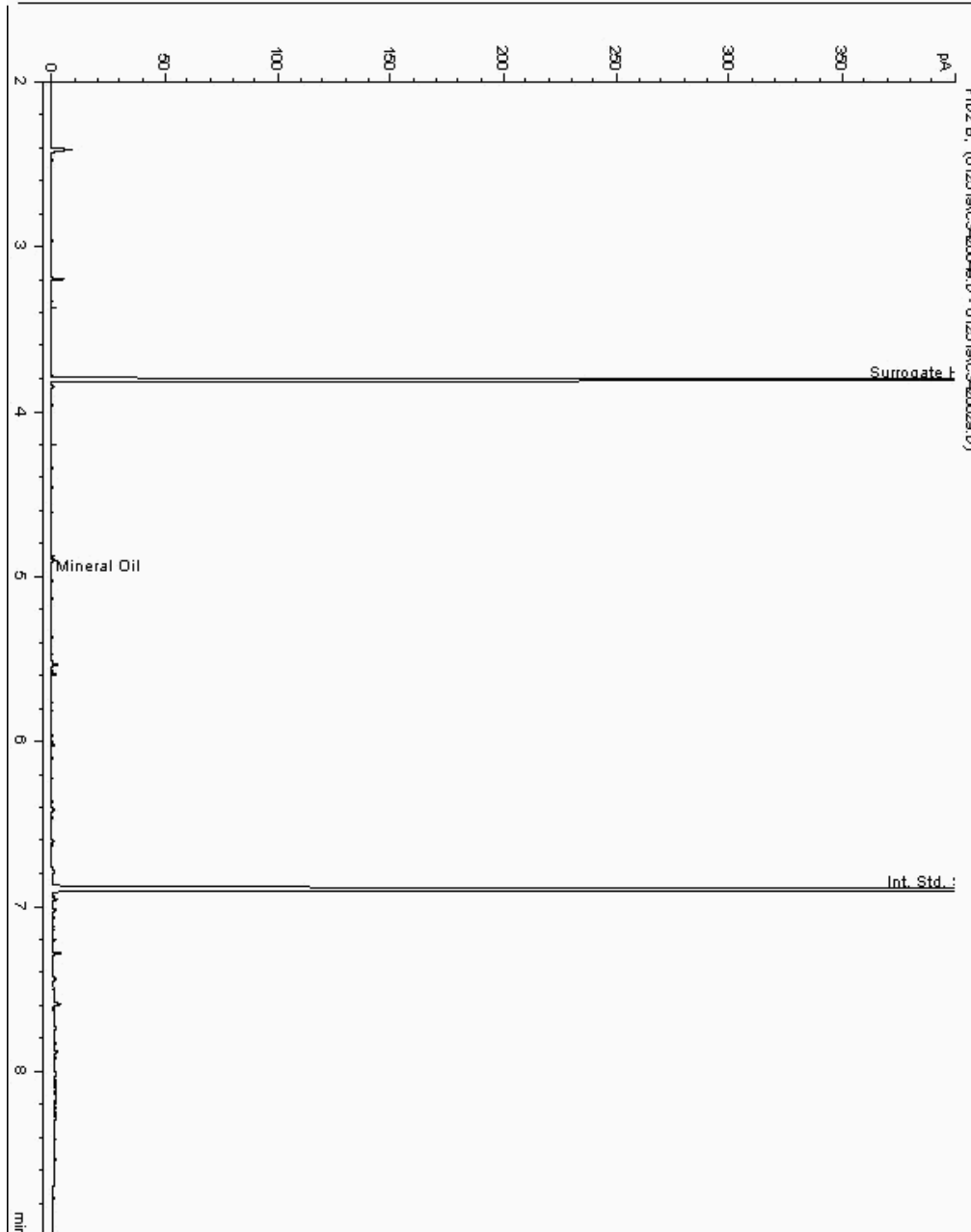
Analysis: Mineral Oil
19179768

Sample No :
Sample ID : BH228

19,179,768 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017080-
Date Acquired : 25/01/19 23:53:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

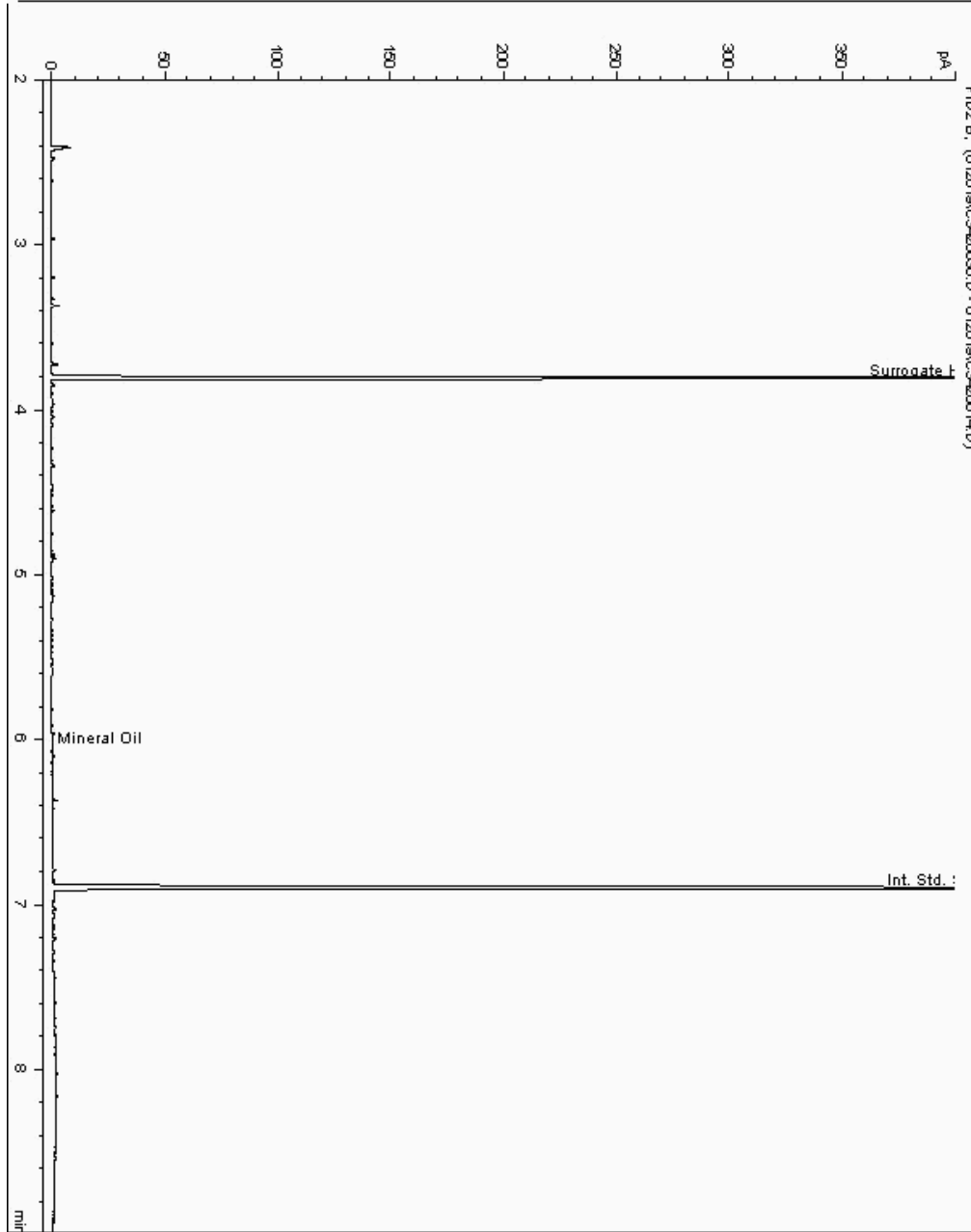
Analysis: Mineral Oil
19179819

Sample No :
Sample ID : BH228

19,179,819 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017049-
Date Acquired : 26/01/19 18:17:36 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

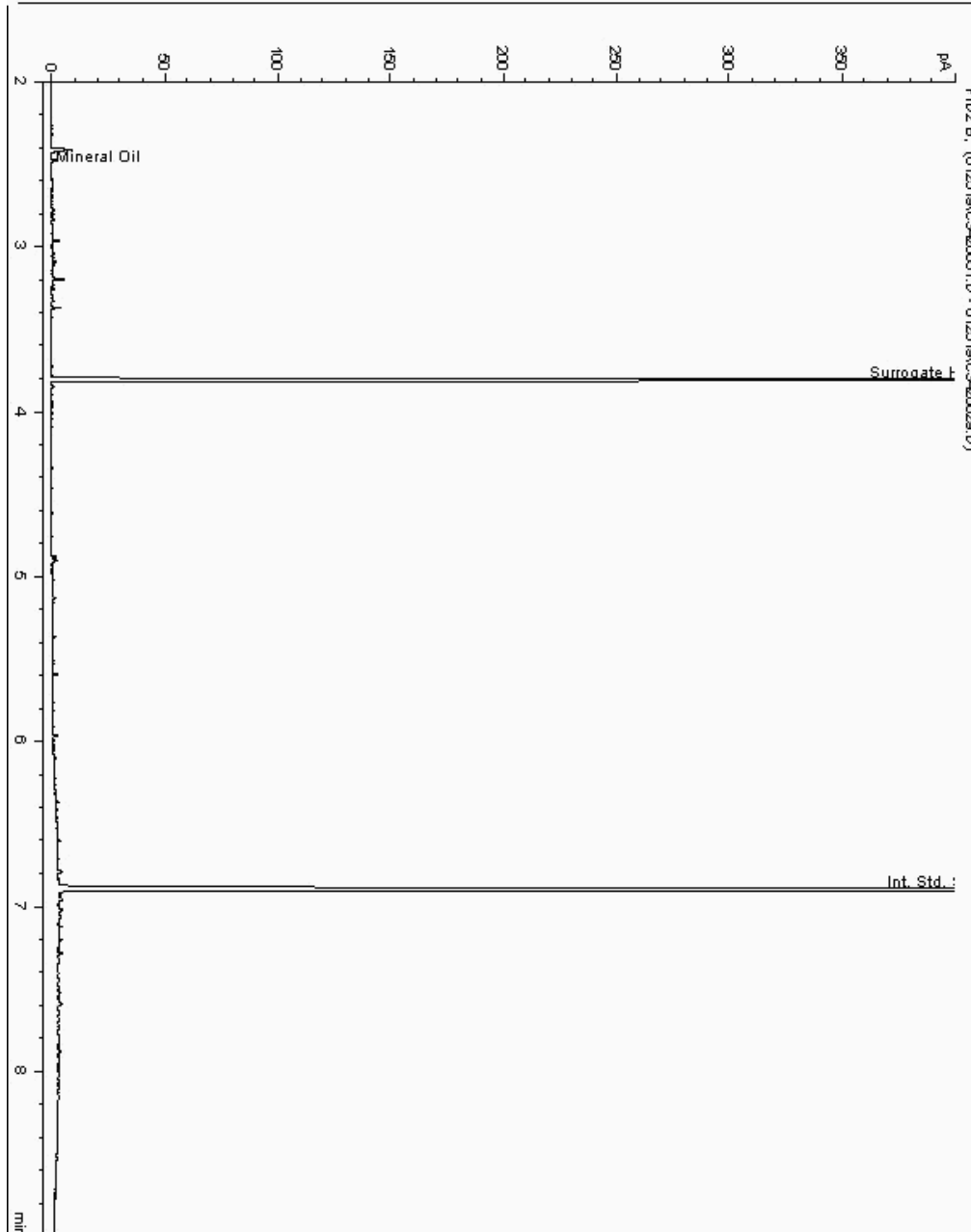
Analysis: Mineral Oil
19179976

Sample No :
Sample ID : BH229

19,179,976 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017357-
Date Acquired : 26/01/19 00:25:48 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

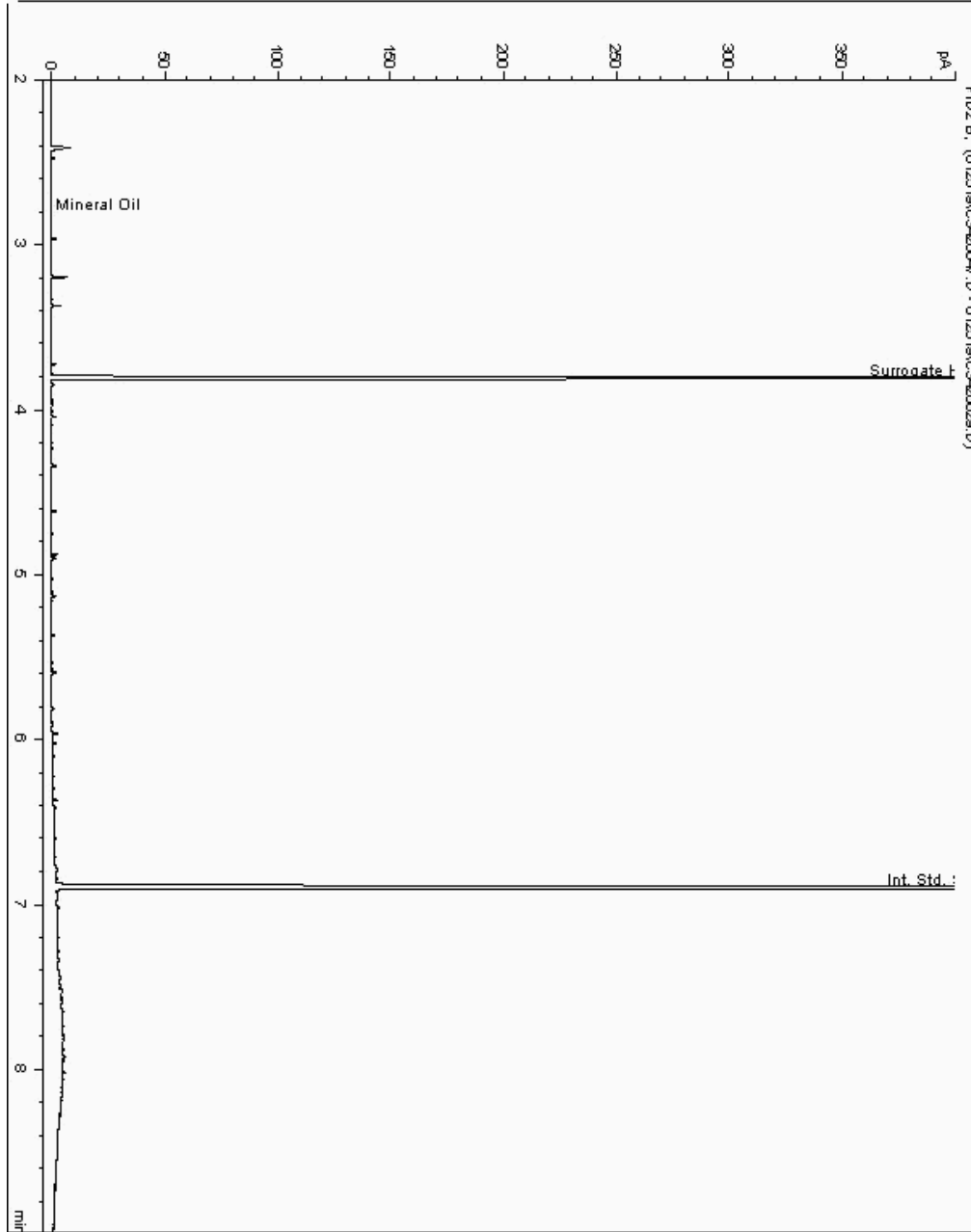
Analysis: Mineral Oil
19180046

Sample No :
Sample ID : BH229

19,180,046 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017404-
Date Acquired : 25/01/19 23:12:27 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

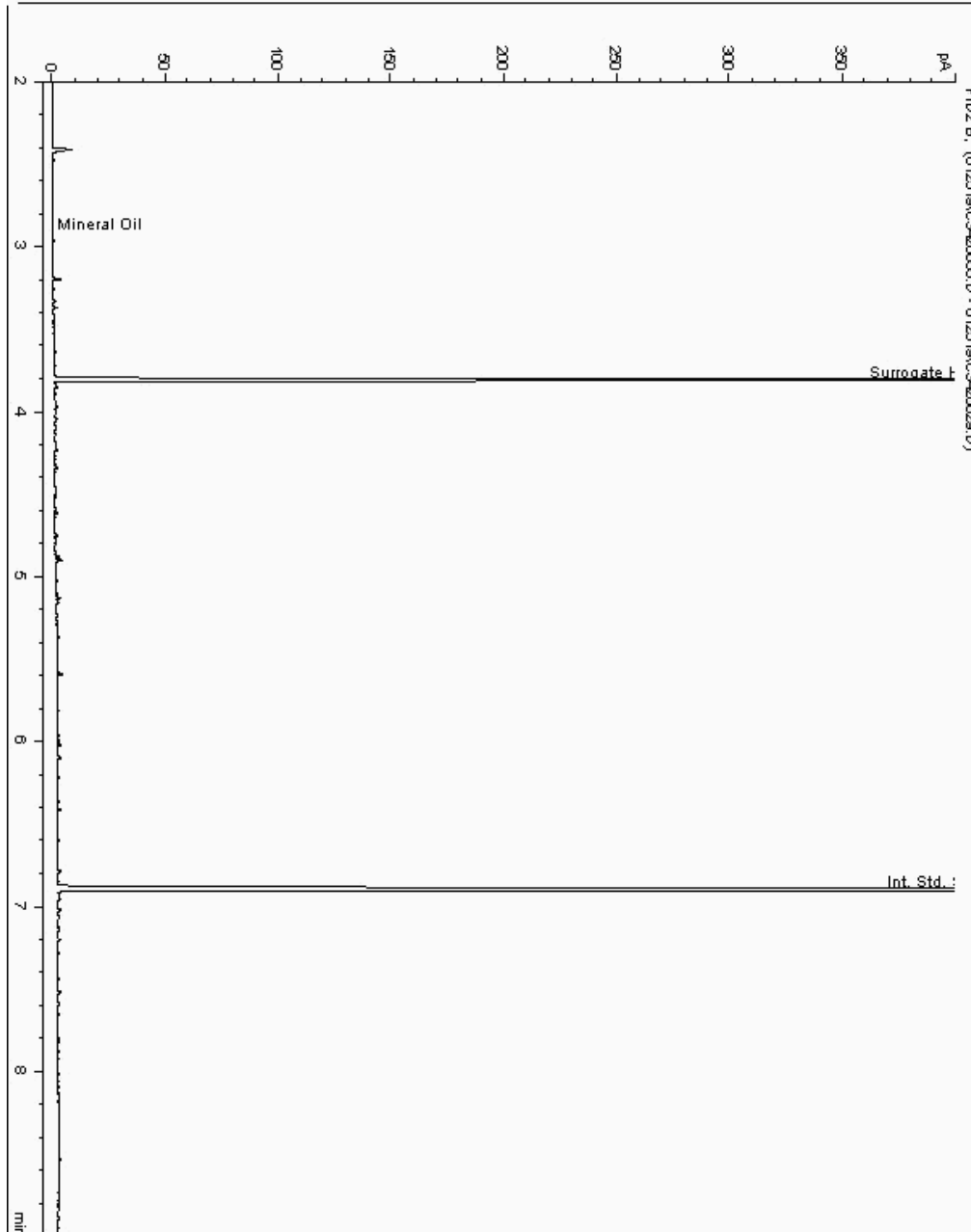
Analysis: Mineral Oil
19180104

Sample No :
Sample ID : BH227

19,180,104Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18016570-
Date Acquired : 26/01/19 01:30:57 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

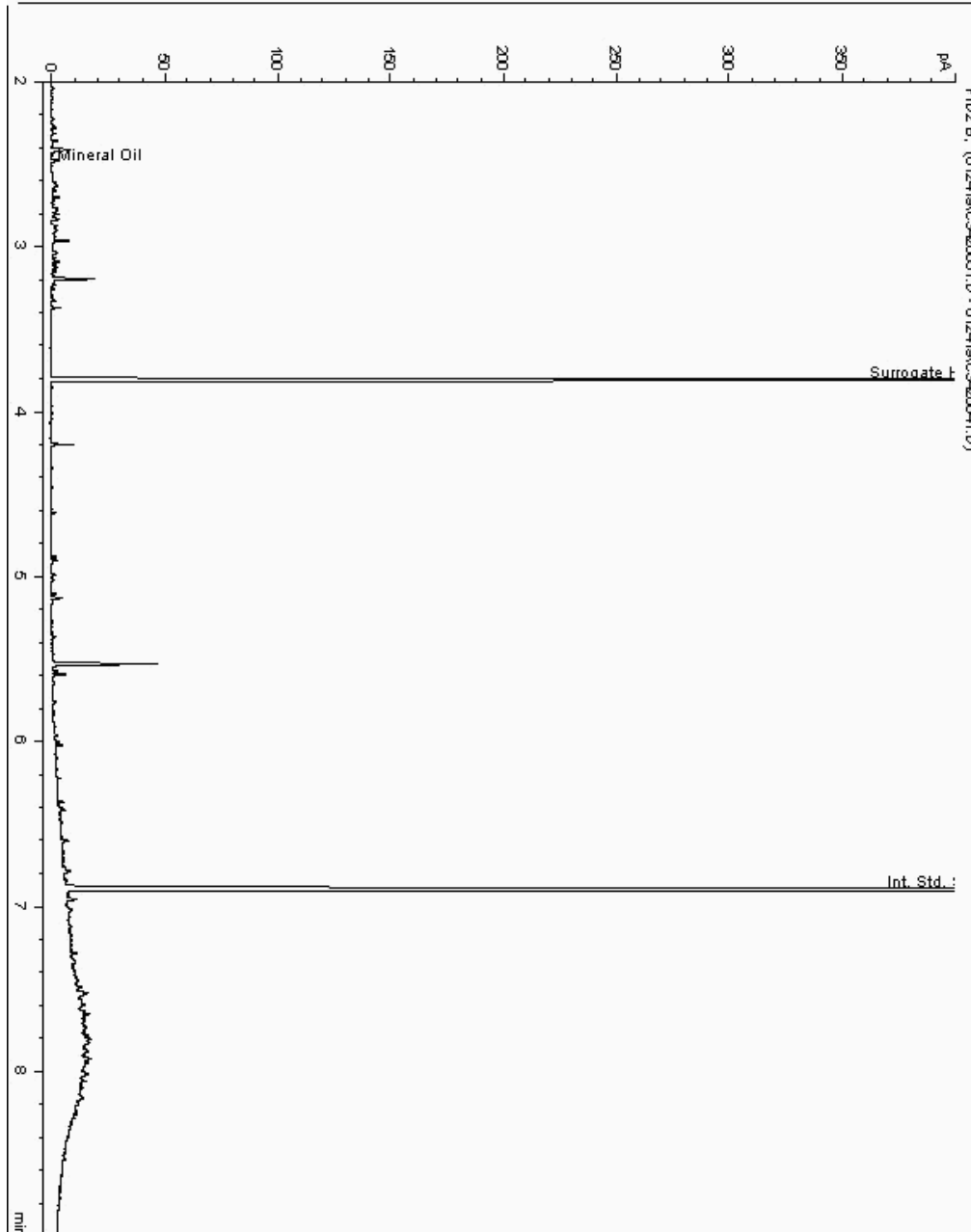
Analysis: Mineral Oil
19180118

Sample No :
Sample ID : BH229

19,180,118Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18017195-
Date Acquired : 25/01/19 01:48:44 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

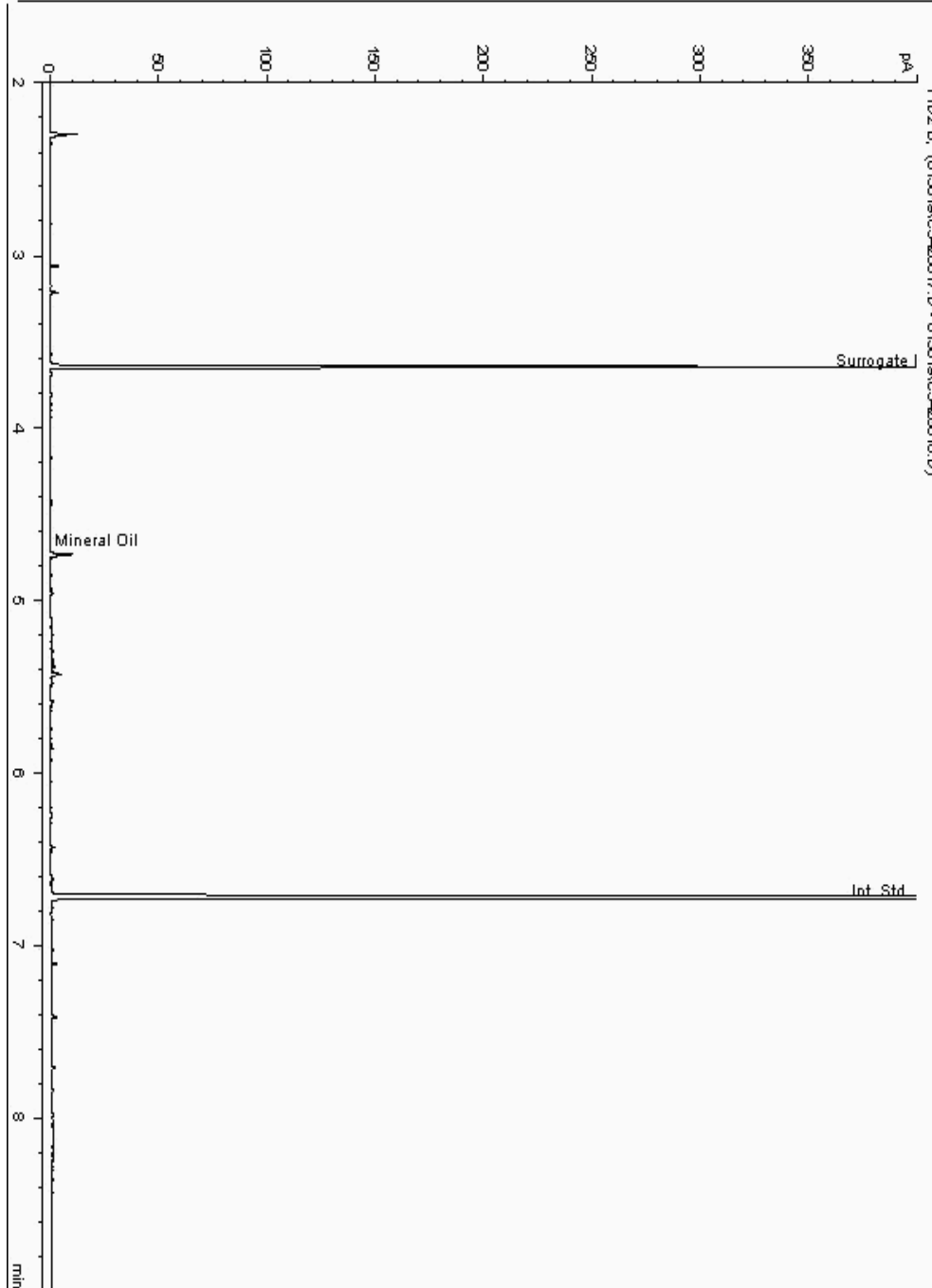
Analysis: Mineral Oil
19219782

Sample No :
Sample ID : BH228

19,219,782Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18057263-
Date Acquired : 30/01/2019 12:13:28 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

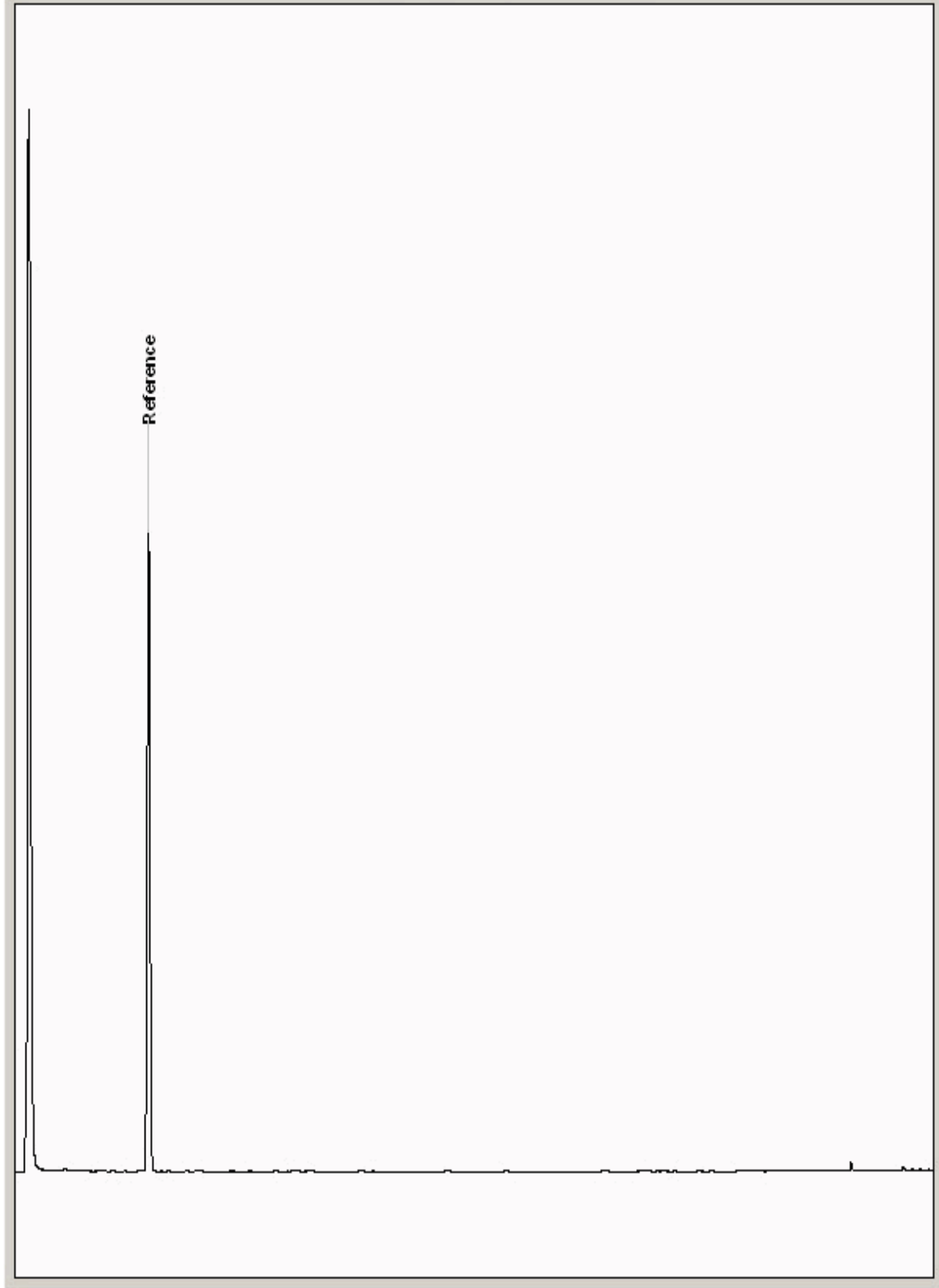
Chromatogram

Analysis: GRO by GC-FID (S)
19189286

Sample No :
Sample ID : BH225

19,189,286Depth :5.00 - 6.00

19189286_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

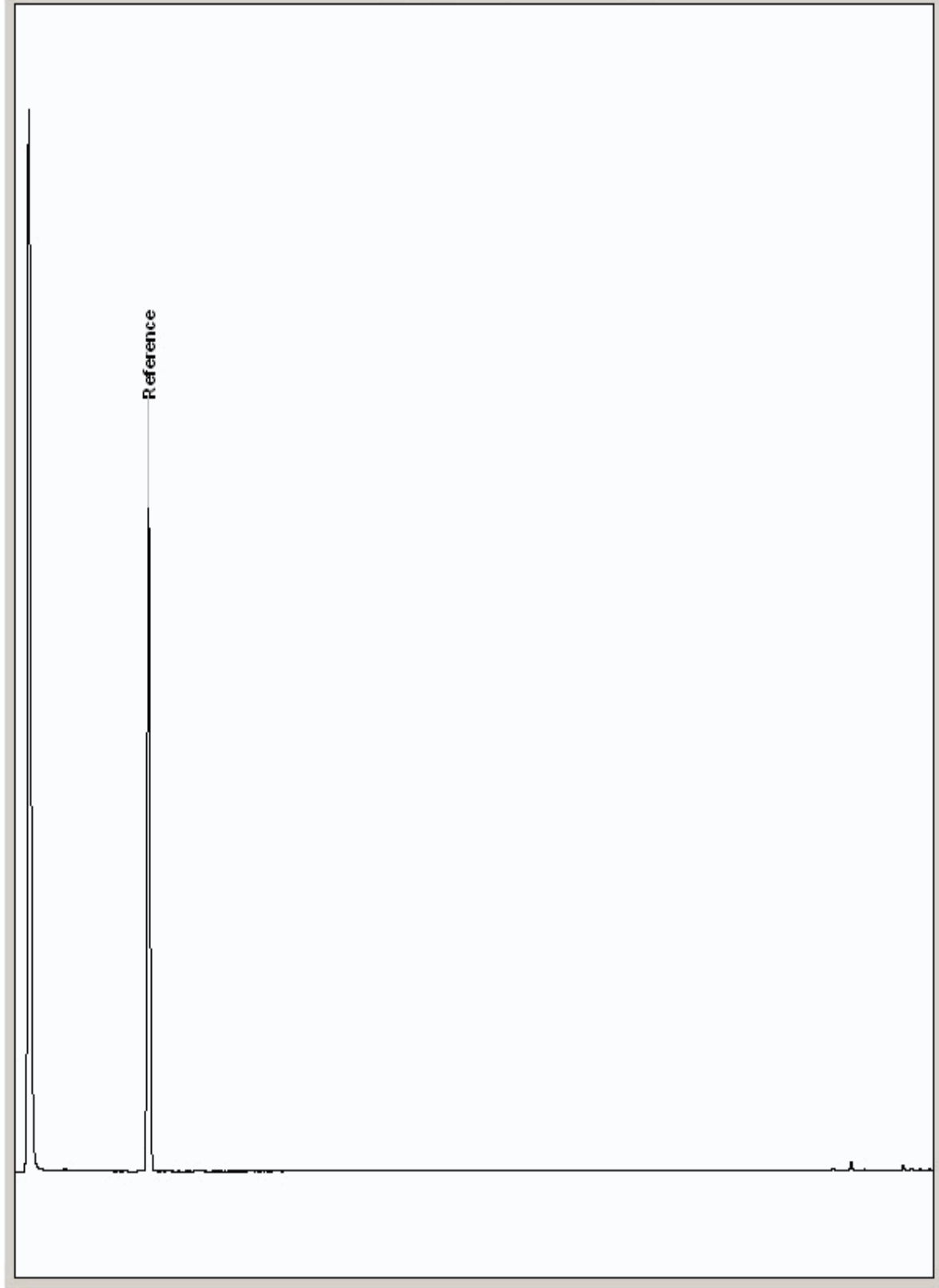
Chromatogram

Analysis: GRO by GC-FID (S)
19189375

Sample No :
Sample ID : BH225

19,189,375 Depth : 10.00 - 12.00

19189375_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

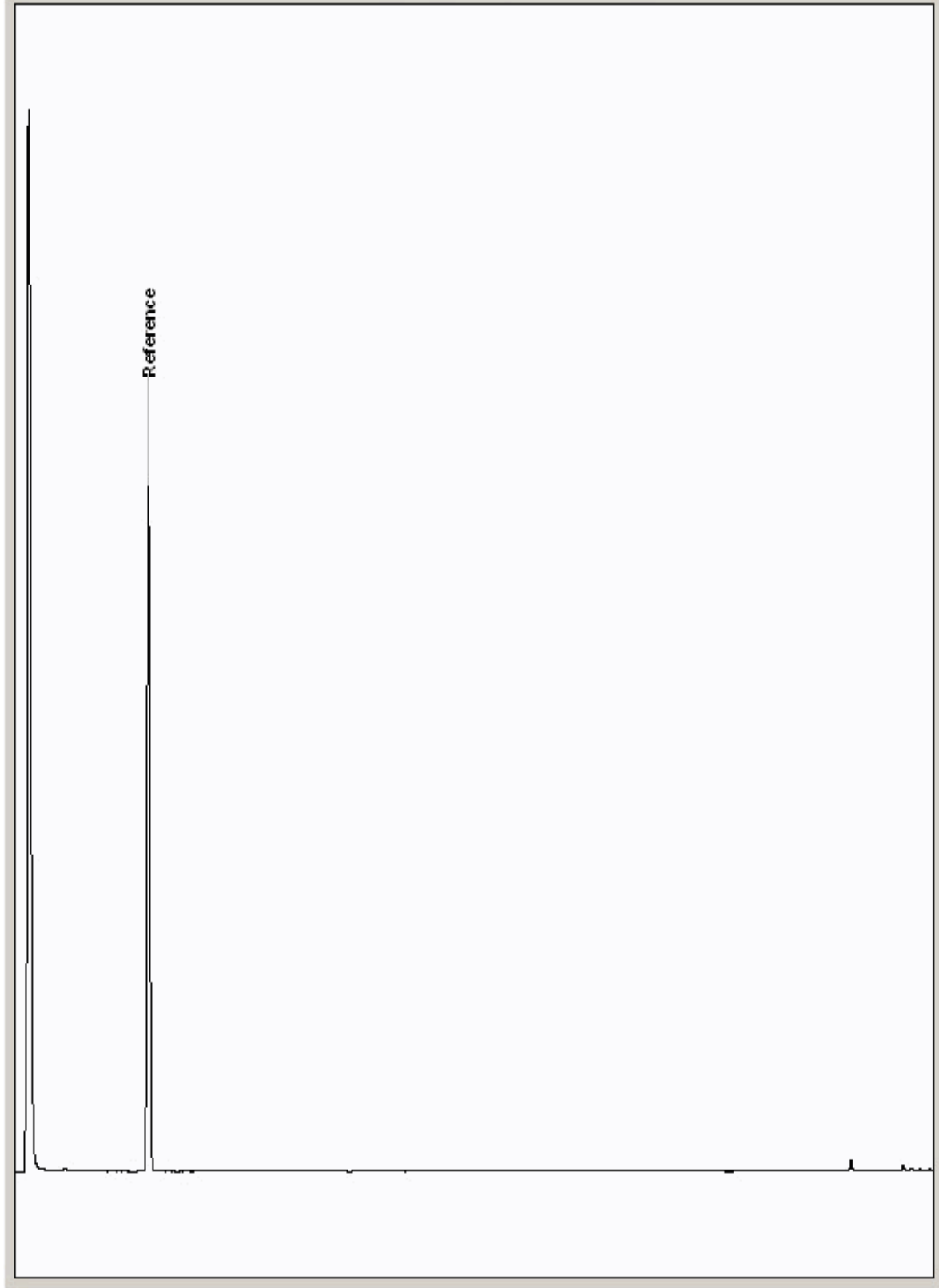
Chromatogram

Analysis: GRO by GC-FID (S)
19189432

Sample No :
Sample ID : BH225

19,189,432Depth : 1.00 - 2.00

19189432_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

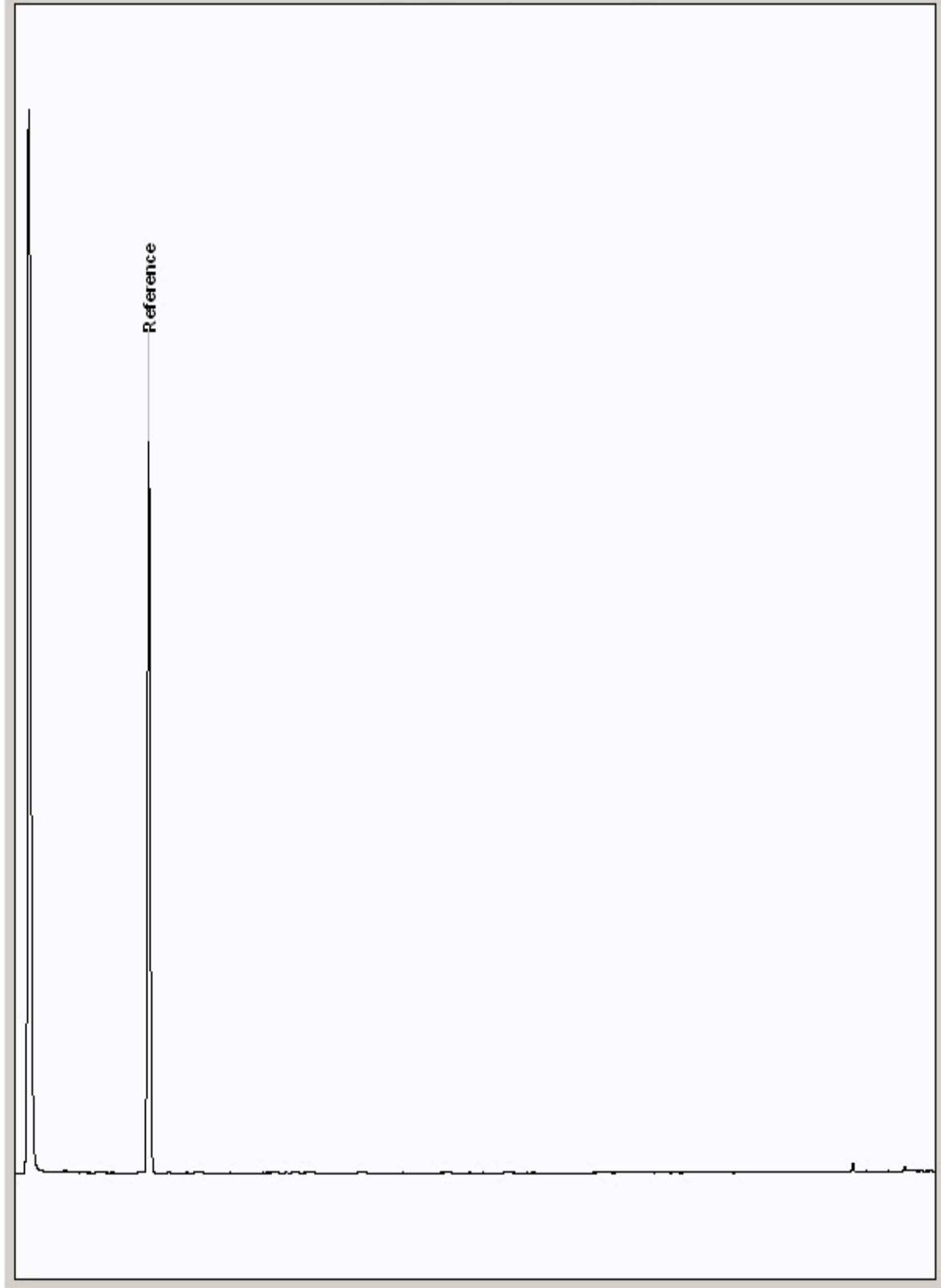
Chromatogram

Analysis: GRO by GC-FID (S)
19189544

Sample No :
Sample ID : BH225

19,189,544Depth :4.00 - 5.00

19189544_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

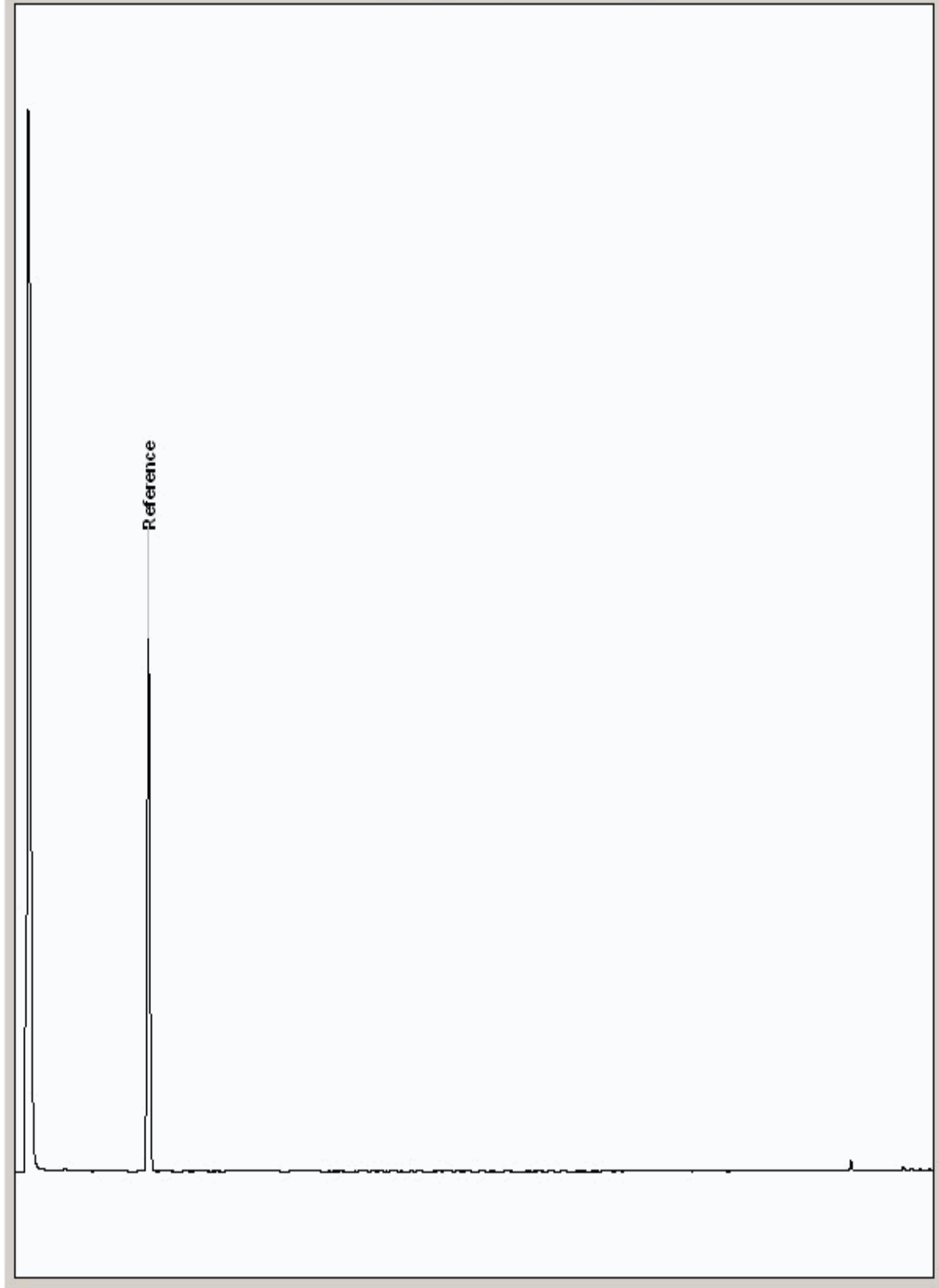
Chromatogram

Analysis: GRO by GC-FID (S)
19190086

Sample No :
Sample ID : BH225

19,190,086Depth :3.00 - 4.00

19190086_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

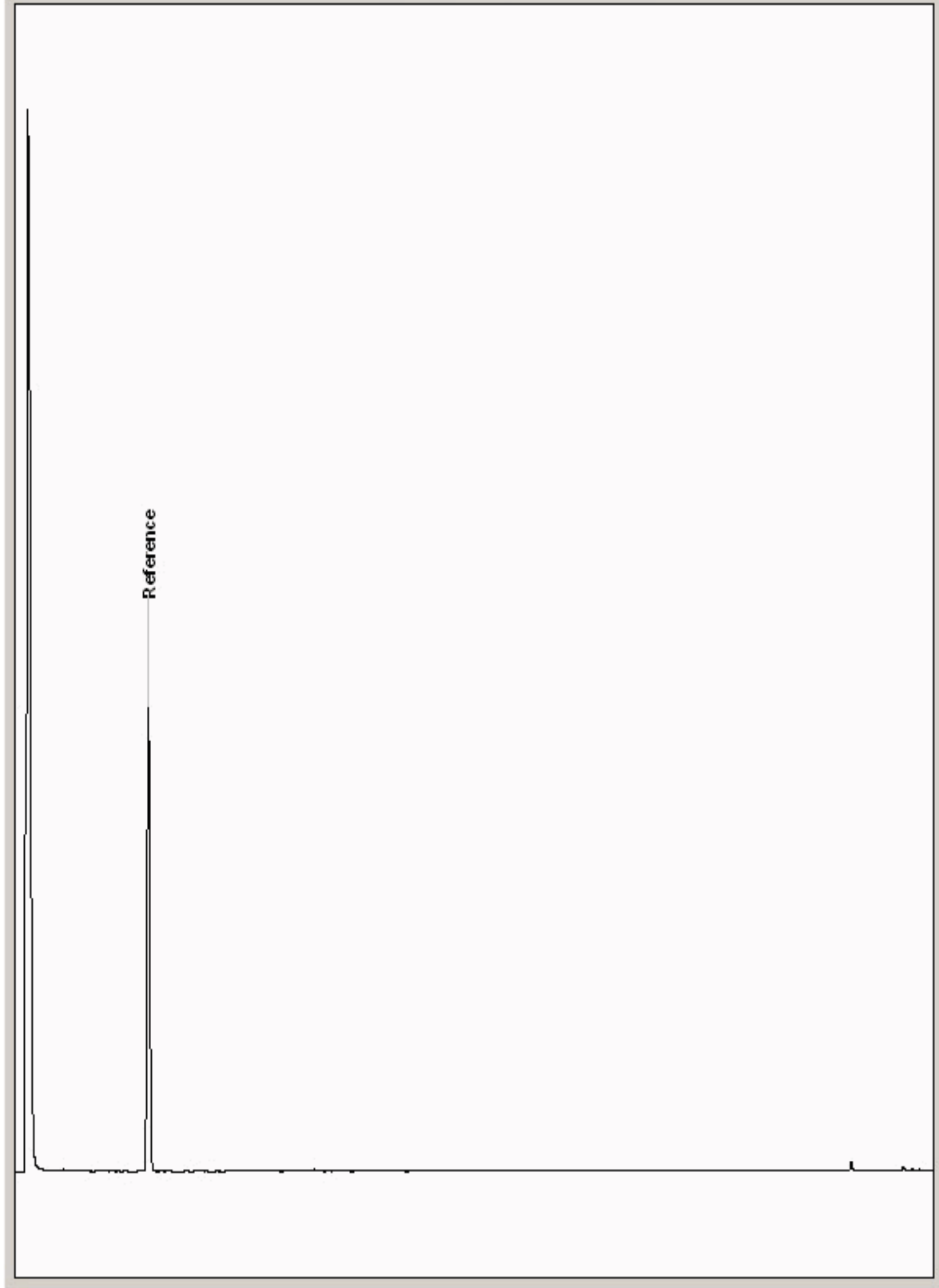
Chromatogram

Analysis: GRO by GC-FID (S)
19190157

Sample No :
Sample ID : BH225

19,190,157Depth :2.00 - 3.00

19190157_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

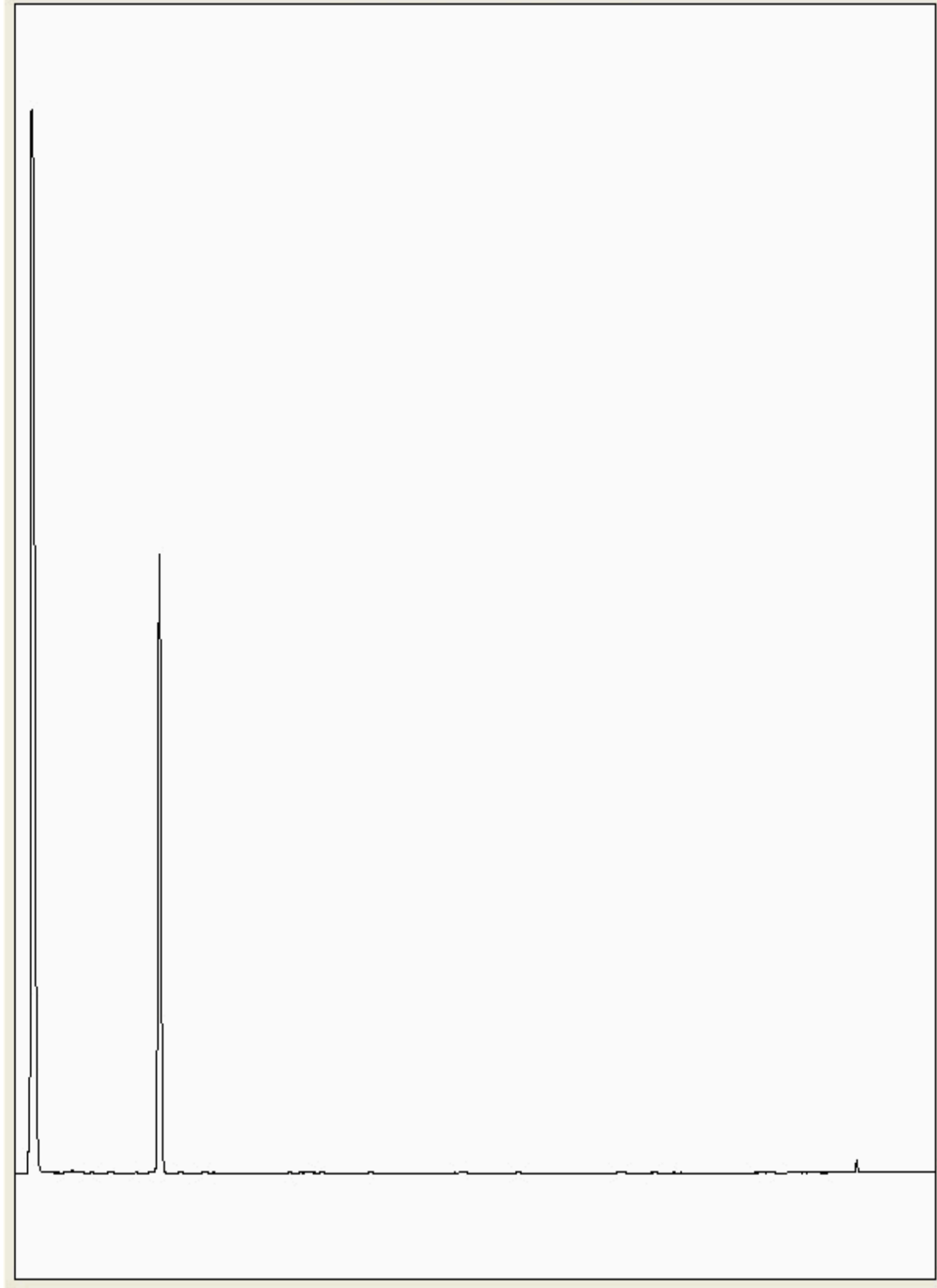
Chromatogram

Analysis: GRO by GC-FID (S)
19191550

Sample No :
Sample ID : BH225

19,191,550**Depth :**8.00 - 9.00

19191550_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

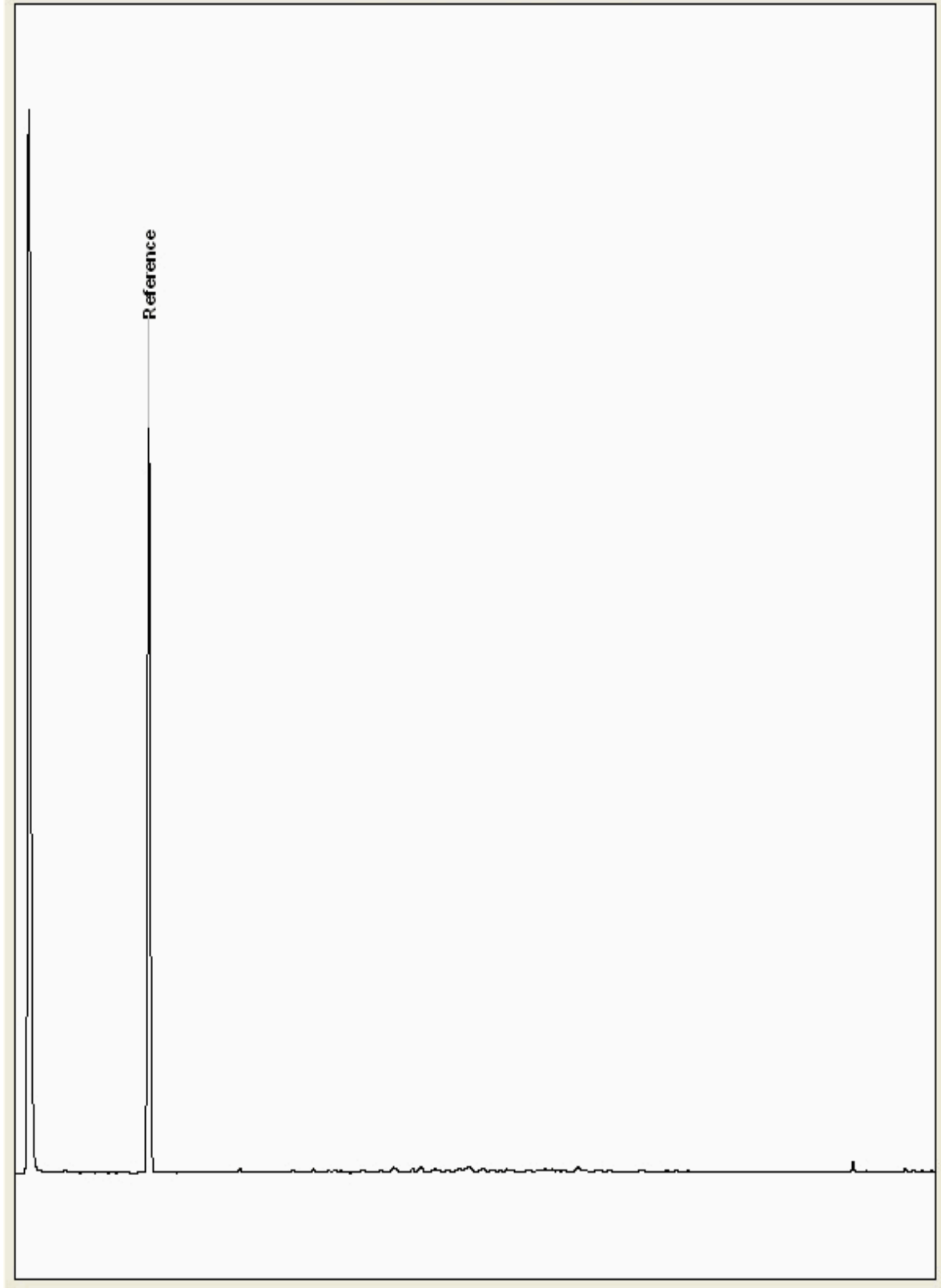
Chromatogram

Analysis: GRO by GC-FID (S)
19200596

Sample No :
Sample ID : BH225

19,200,596Depth :0.50 - 1.00

19200596_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

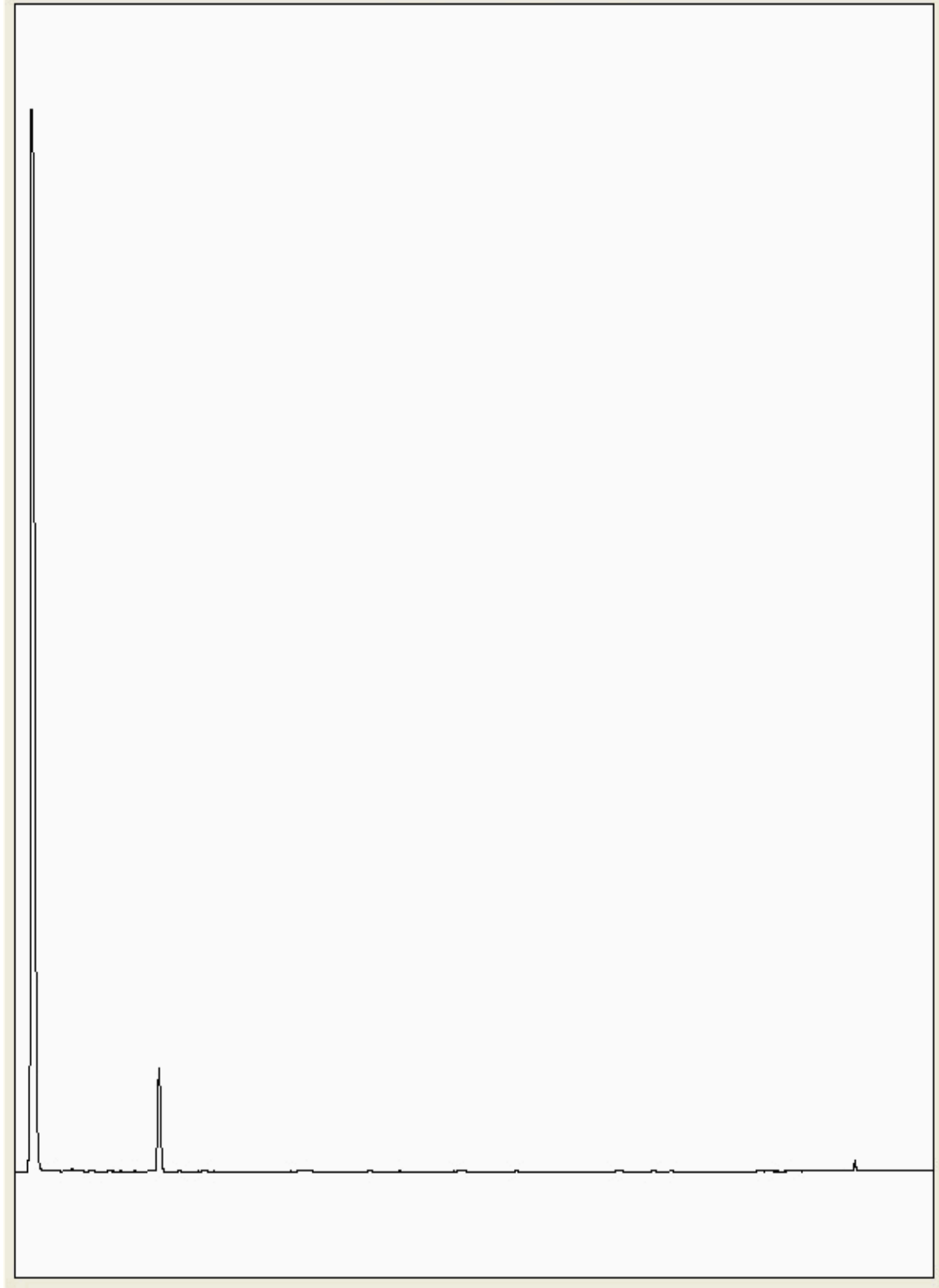
Chromatogram

Analysis: GRO by GC-FID (S)
19215678

Sample No :
Sample ID : BH225

19,215,678 **Depth :** 13.00 - 14.00

19215678_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

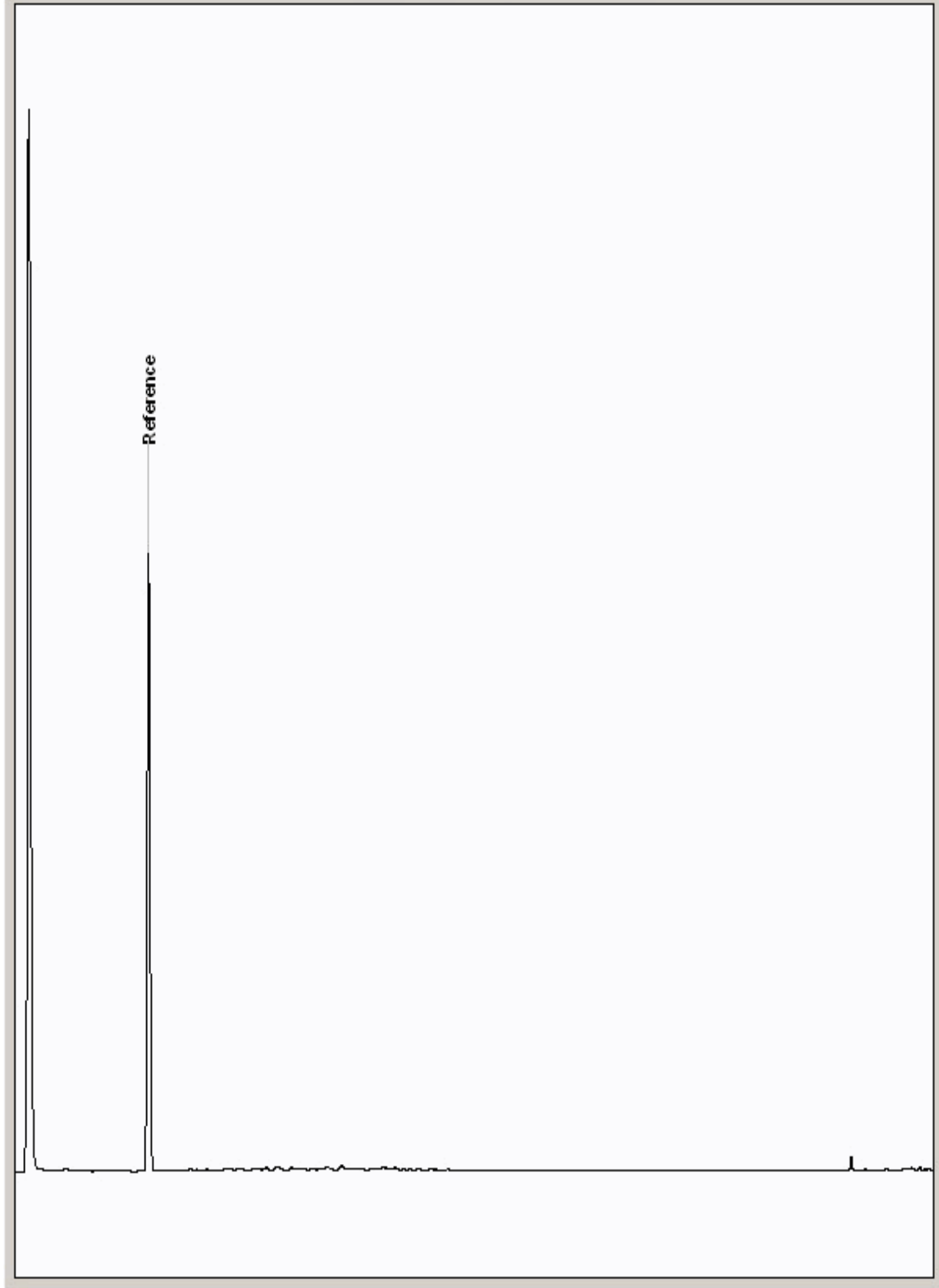
Chromatogram

Analysis: GRO by GC-FID (S)
19219223

Sample No :
Sample ID : BH227

19,219,223Depth :4.00 - 5.00

19219223_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

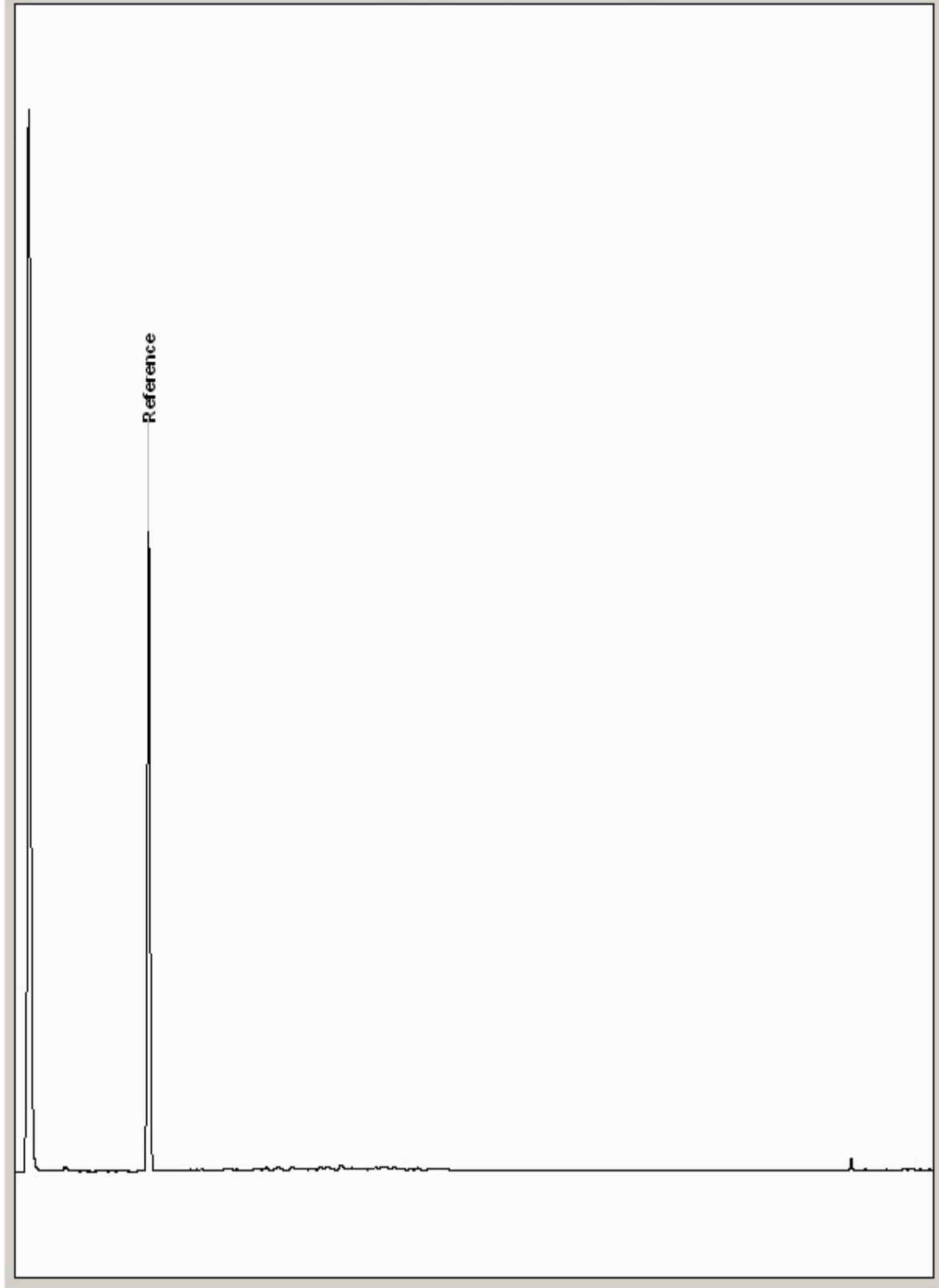
Chromatogram

Analysis: GRO by GC-FID (S)
19219576

Sample No :
Sample ID : BH226

19,219,576Depth :4.30 - 5.00

19219576_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

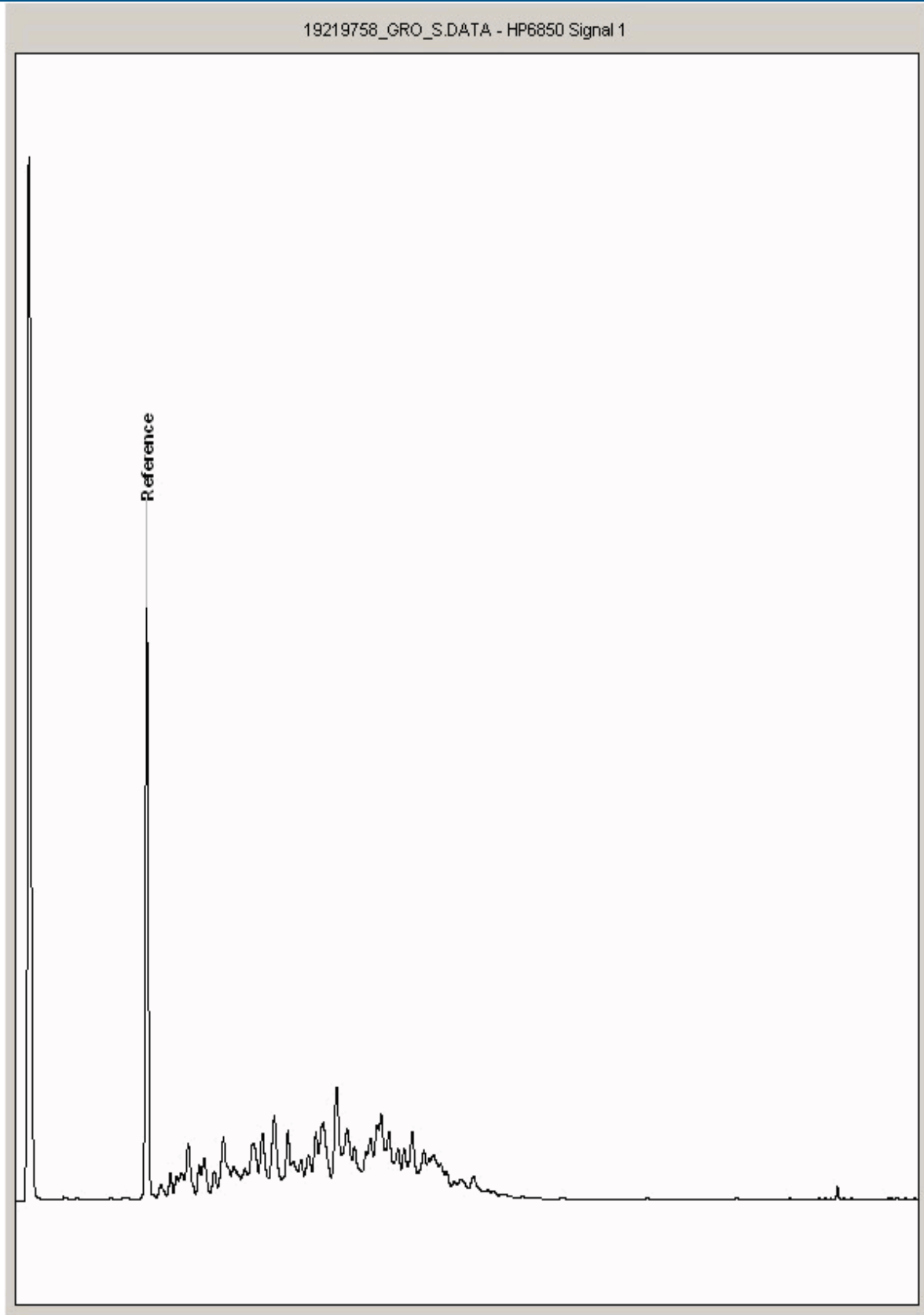
Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19219758

Sample No :
Sample ID : BH229

19,219,758Depth :2.00 - 3.00





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

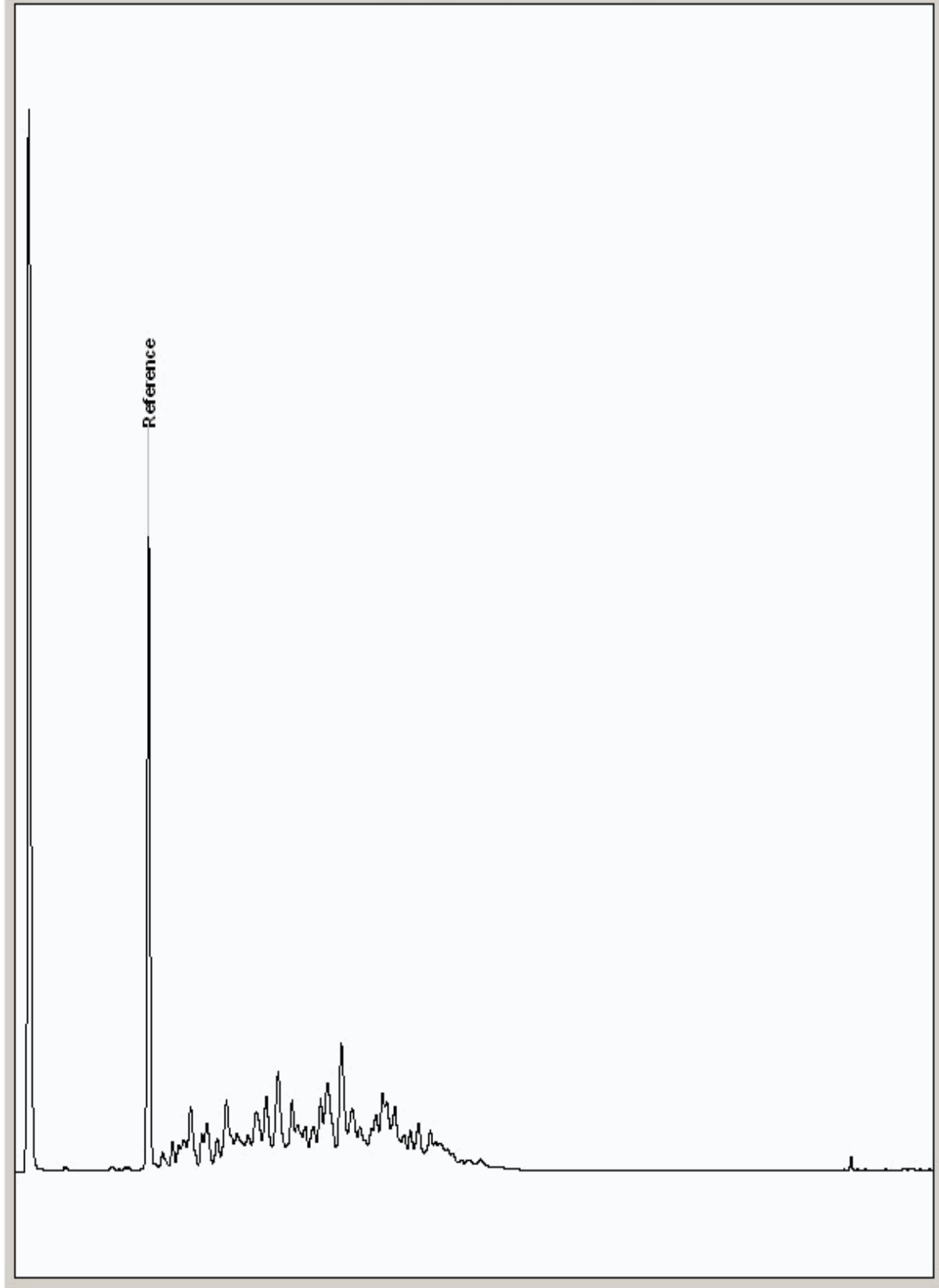
Chromatogram

Analysis: GRO by GC-FID (S)
19219871

Sample No :
Sample ID : BH226

19,219,871 Depth : 2.00 - 3.00

19219871_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

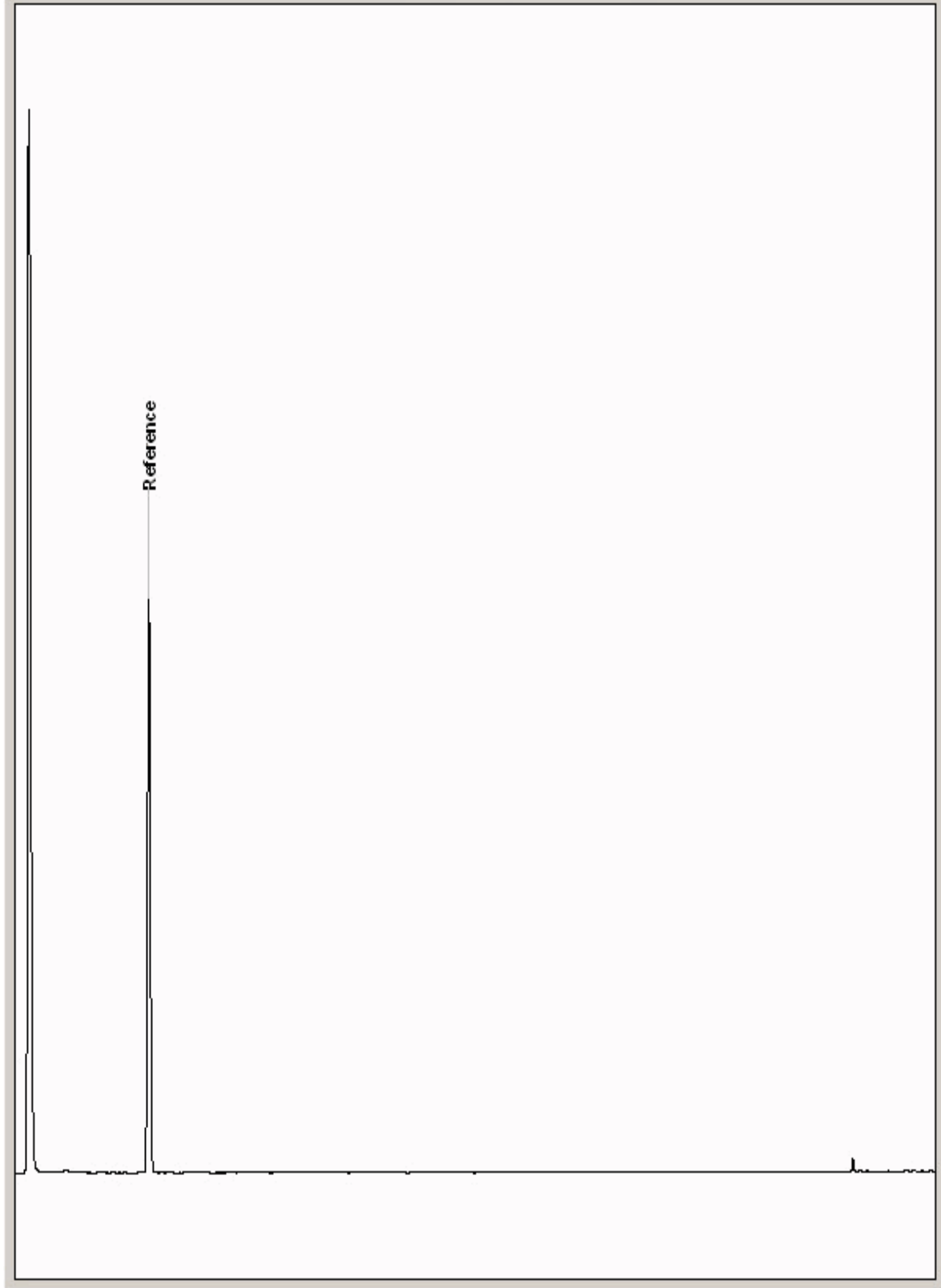
Chromatogram

Analysis: GRO by GC-FID (S)
19219902

Sample No :
Sample ID : BH226

19,219,902Depth :0.00 - 0.50

19219902_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

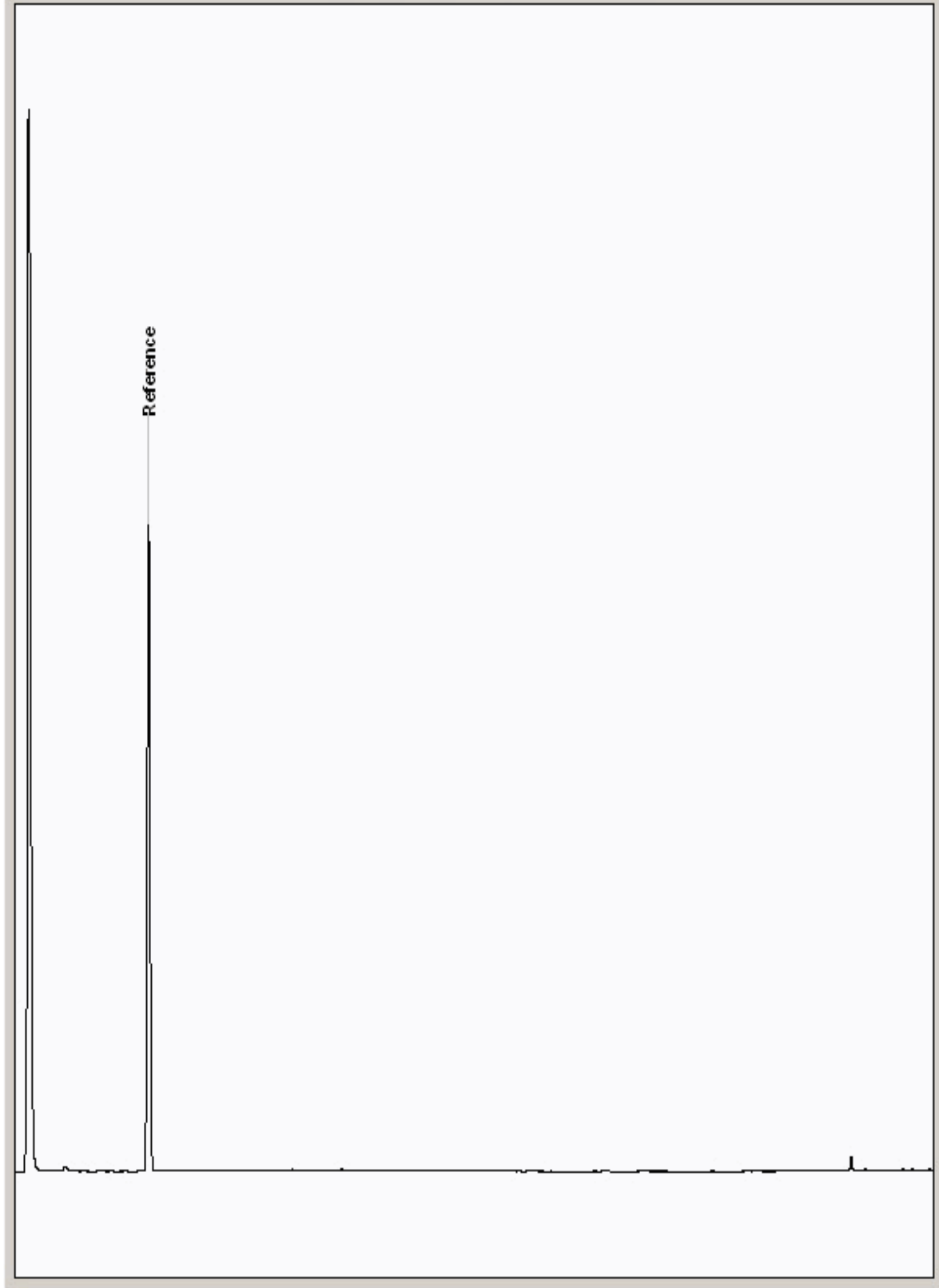
Chromatogram

Analysis: GRO by GC-FID (S)
19220382

Sample No :
Sample ID : BH227

19,220,382Depth :9.00 - 11.00

19220382_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

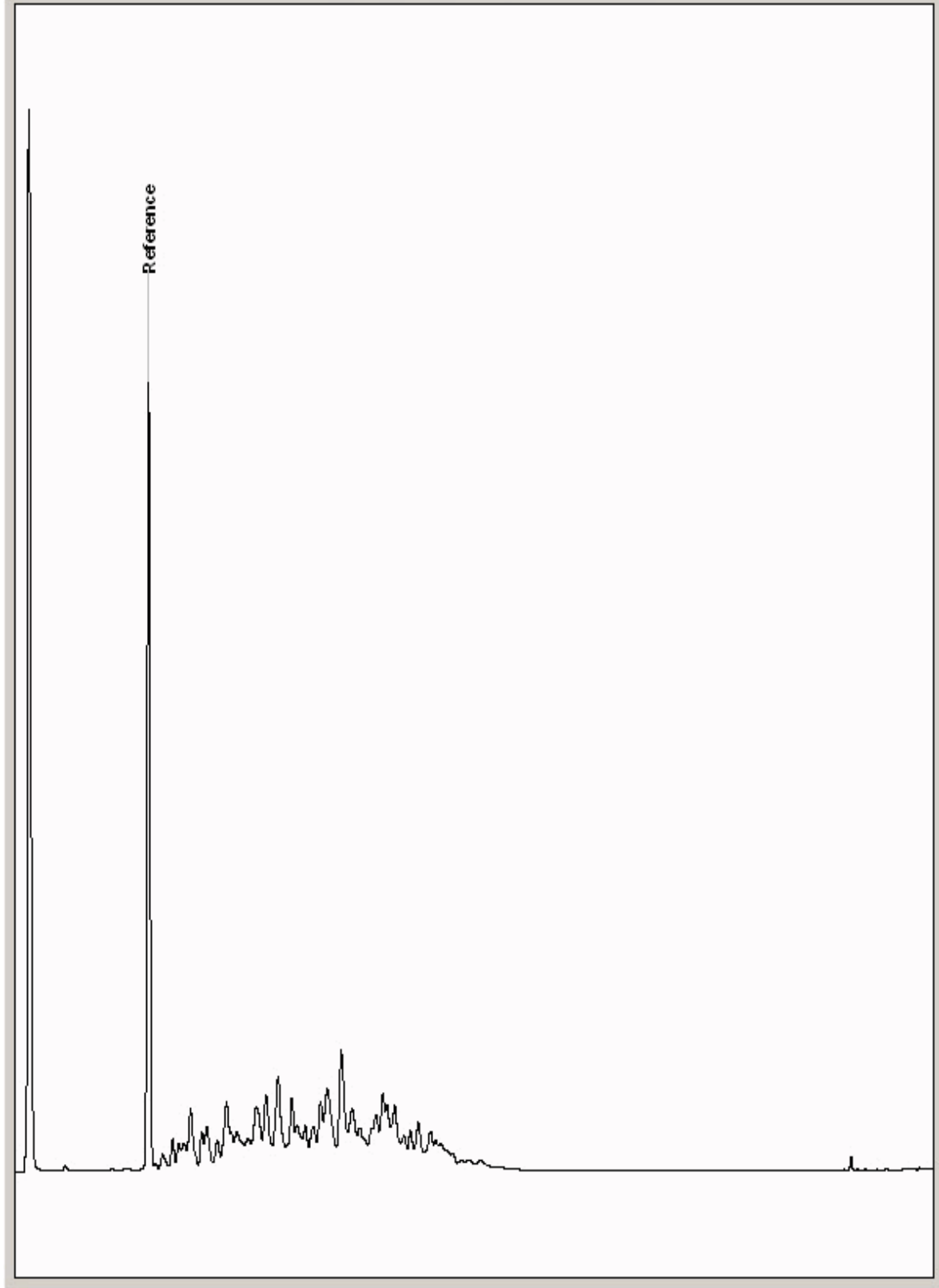
Chromatogram

Analysis: GRO by GC-FID (S)
19220422

Sample No :
Sample ID : BH227

19,220,422Depth :6.00 - 7.00

19220422_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

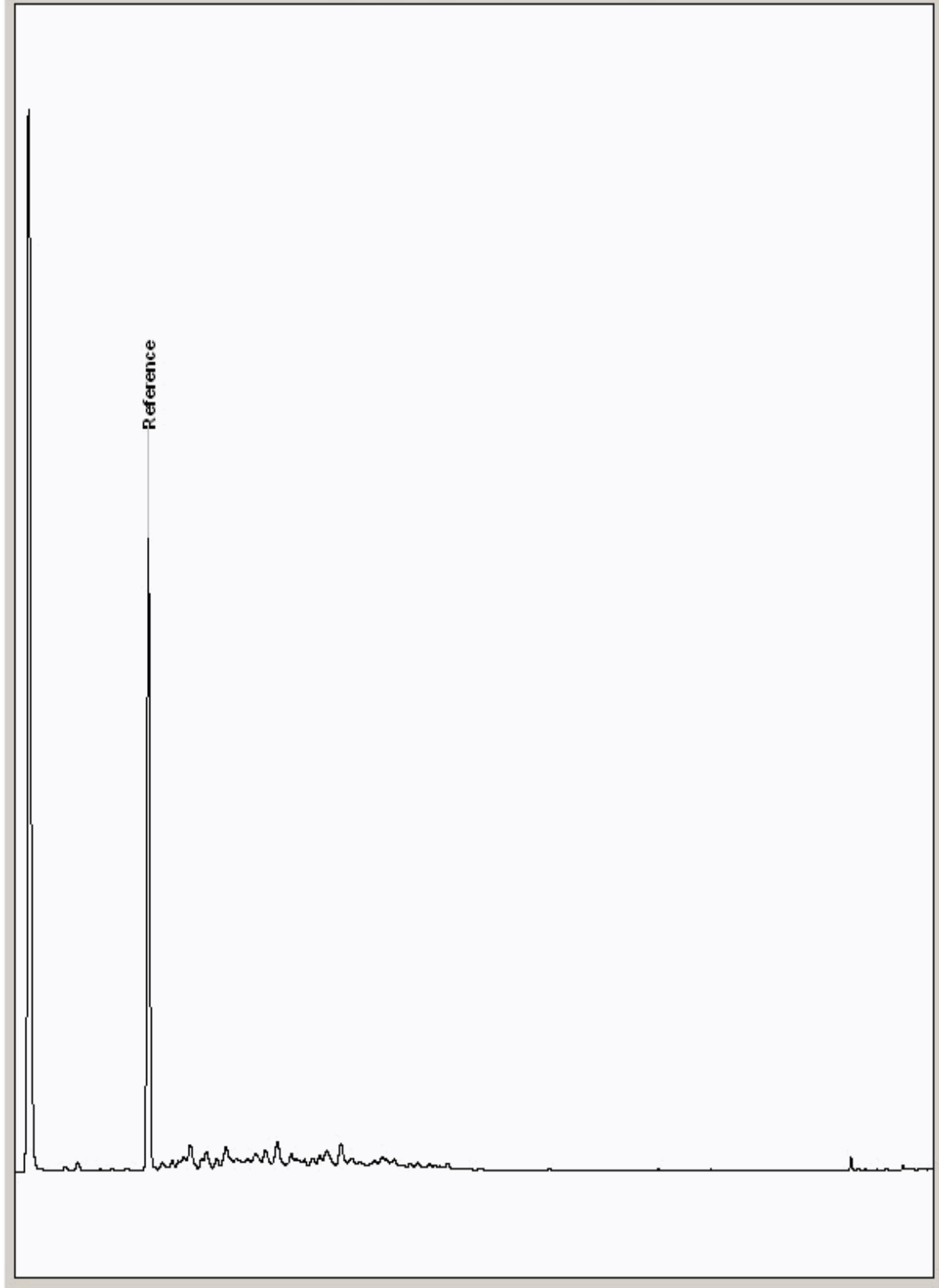
Chromatogram

Analysis: GRO by GC-FID (S)
19220459

Sample No :
Sample ID : BH226

19,220,459Depth : 1.00 - 2.00

19220459_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

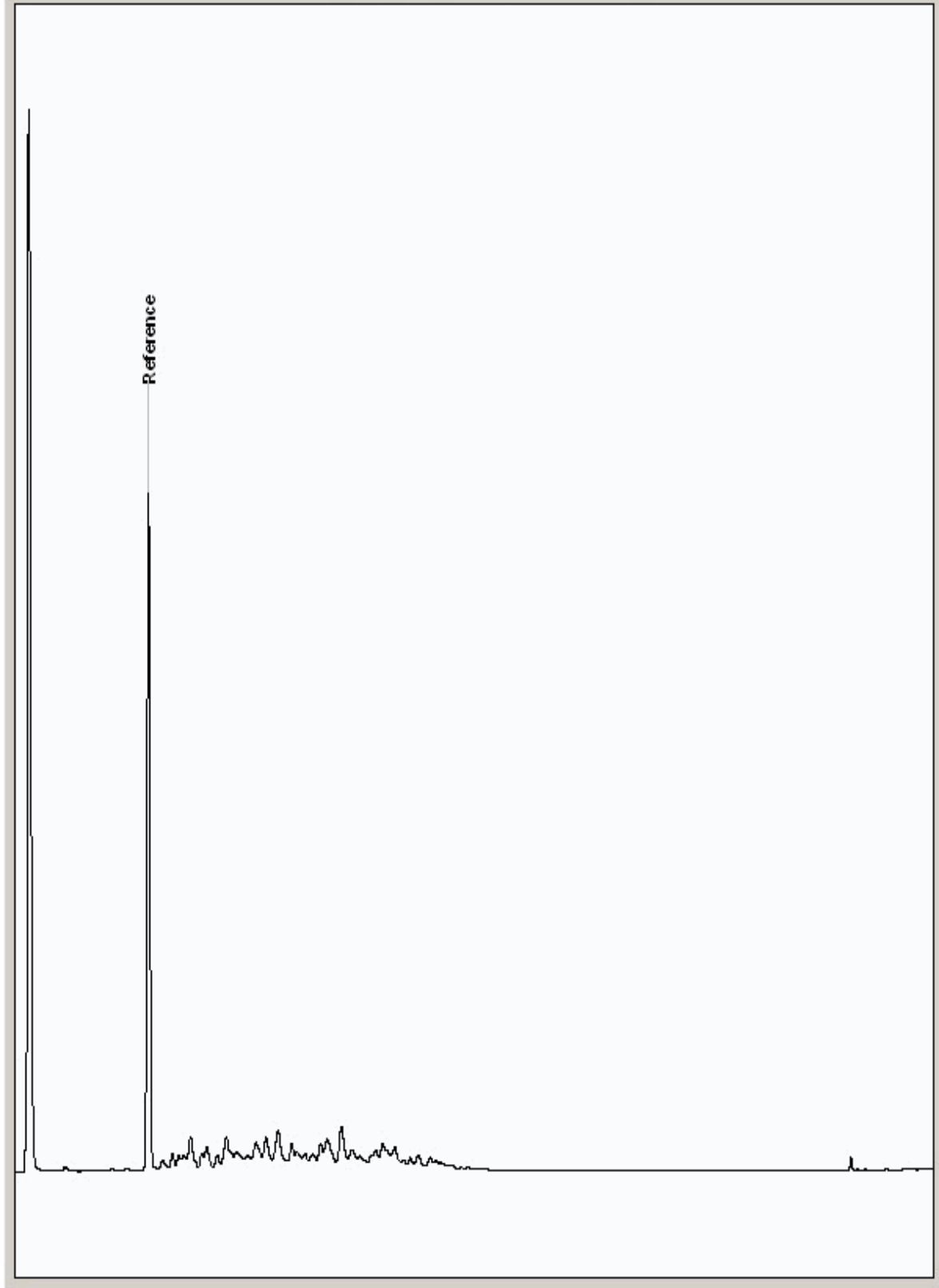
Chromatogram

Analysis: GRO by GC-FID (S)
19220481

Sample No :
Sample ID : BH226

19,220,481 Depth : 6.00 - 7.00

19220481_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

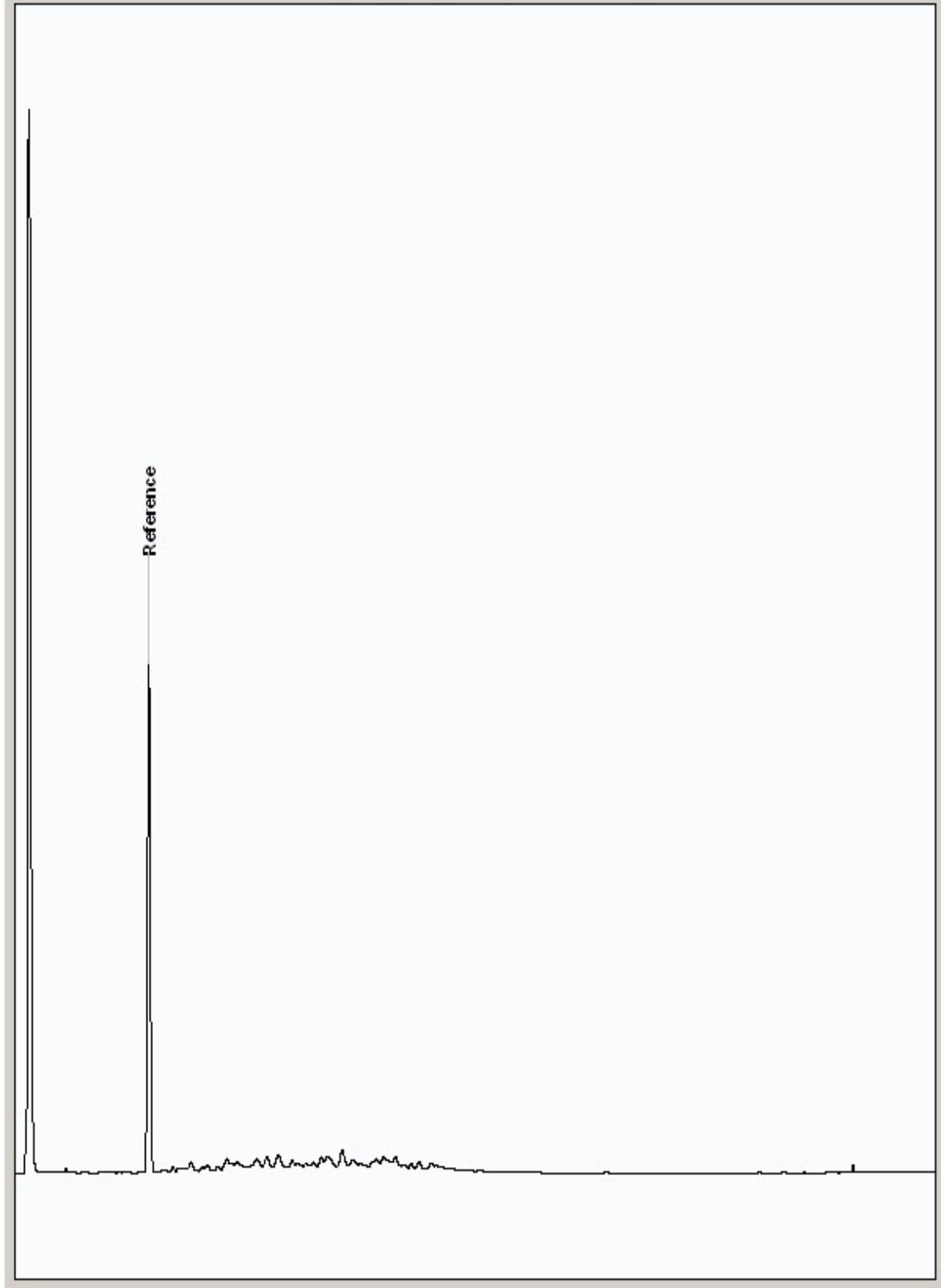
Chromatogram

Analysis: GRO by GC-FID (S)
19220582

Sample No :
Sample ID : BH227

19,220,582Depth :8.00 - 9.00

19220582_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

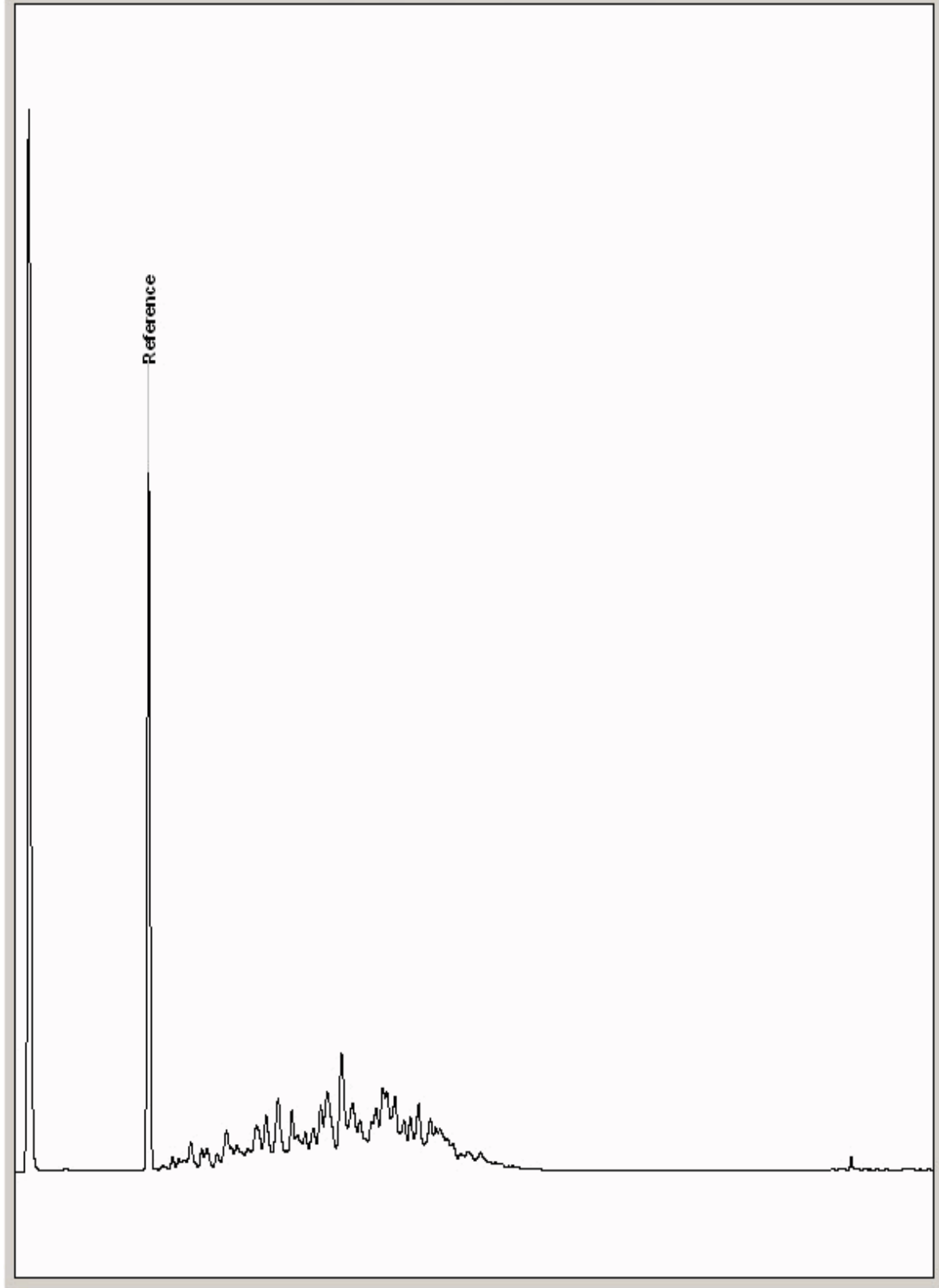
Chromatogram

Analysis: GRO by GC-FID (S)
19220904

Sample No :
Sample ID : BH227

19,220,904Depth :5.00 - 6.00

19220904_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

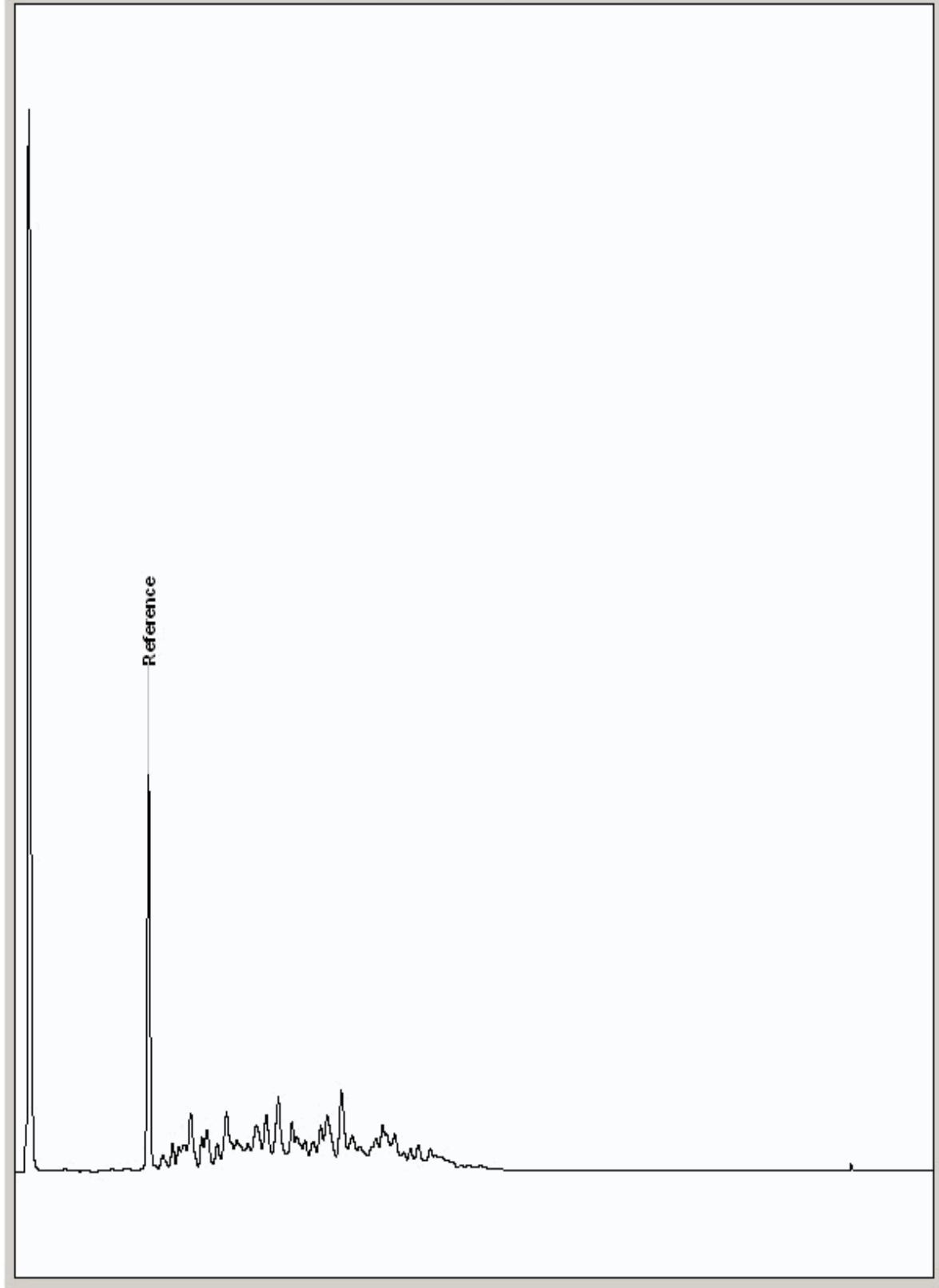
Chromatogram

Analysis: GRO by GC-FID (S)
19220943

Sample No :
Sample ID : BH226

19,220,943Depth :3.00 - 4.00

19220943_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

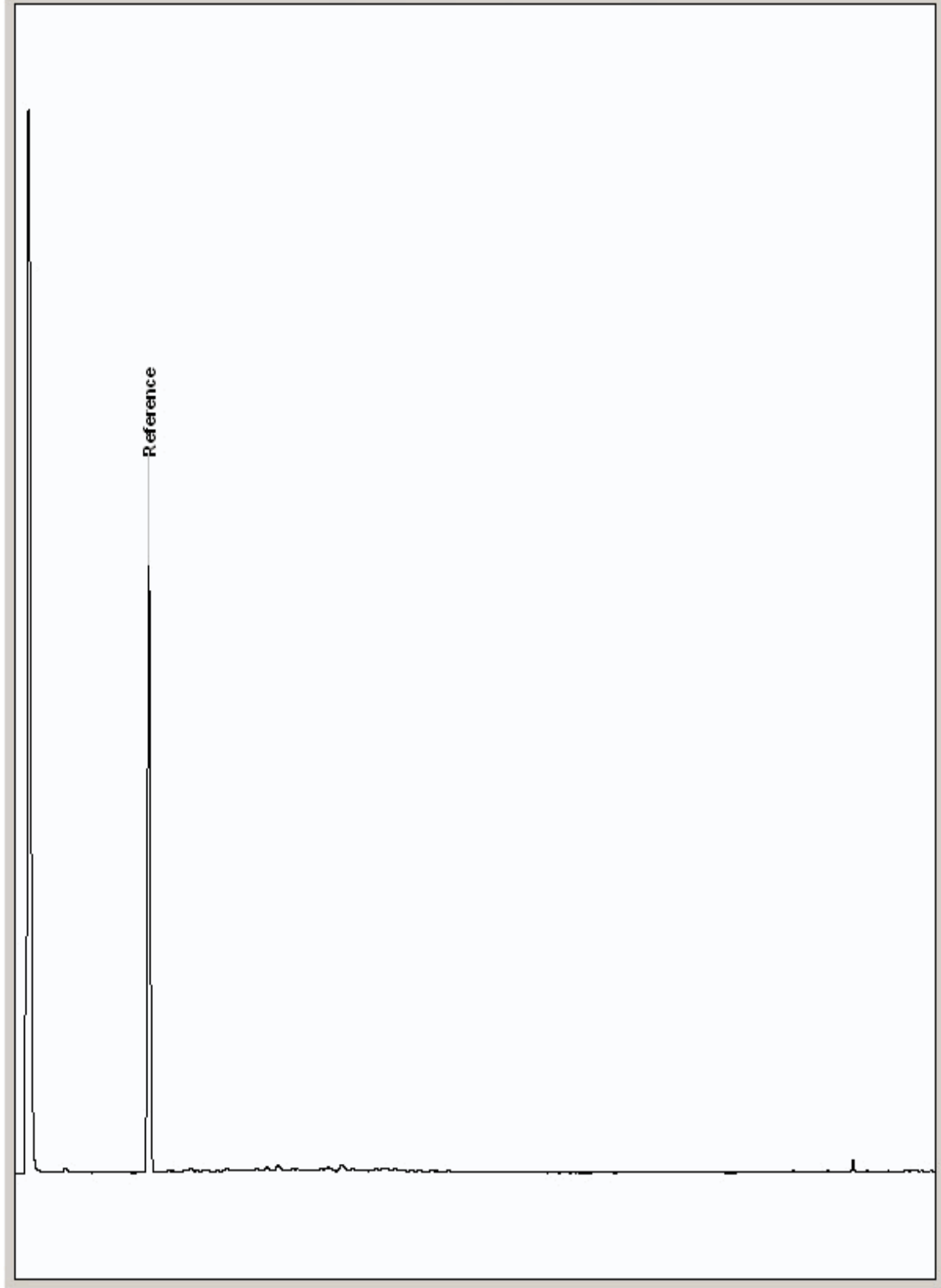
Chromatogram

Analysis: GRO by GC-FID (S)
19222775

Sample No :
Sample ID : BH228

19,222,775Depth : 1.00 - 2.00

19222775_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

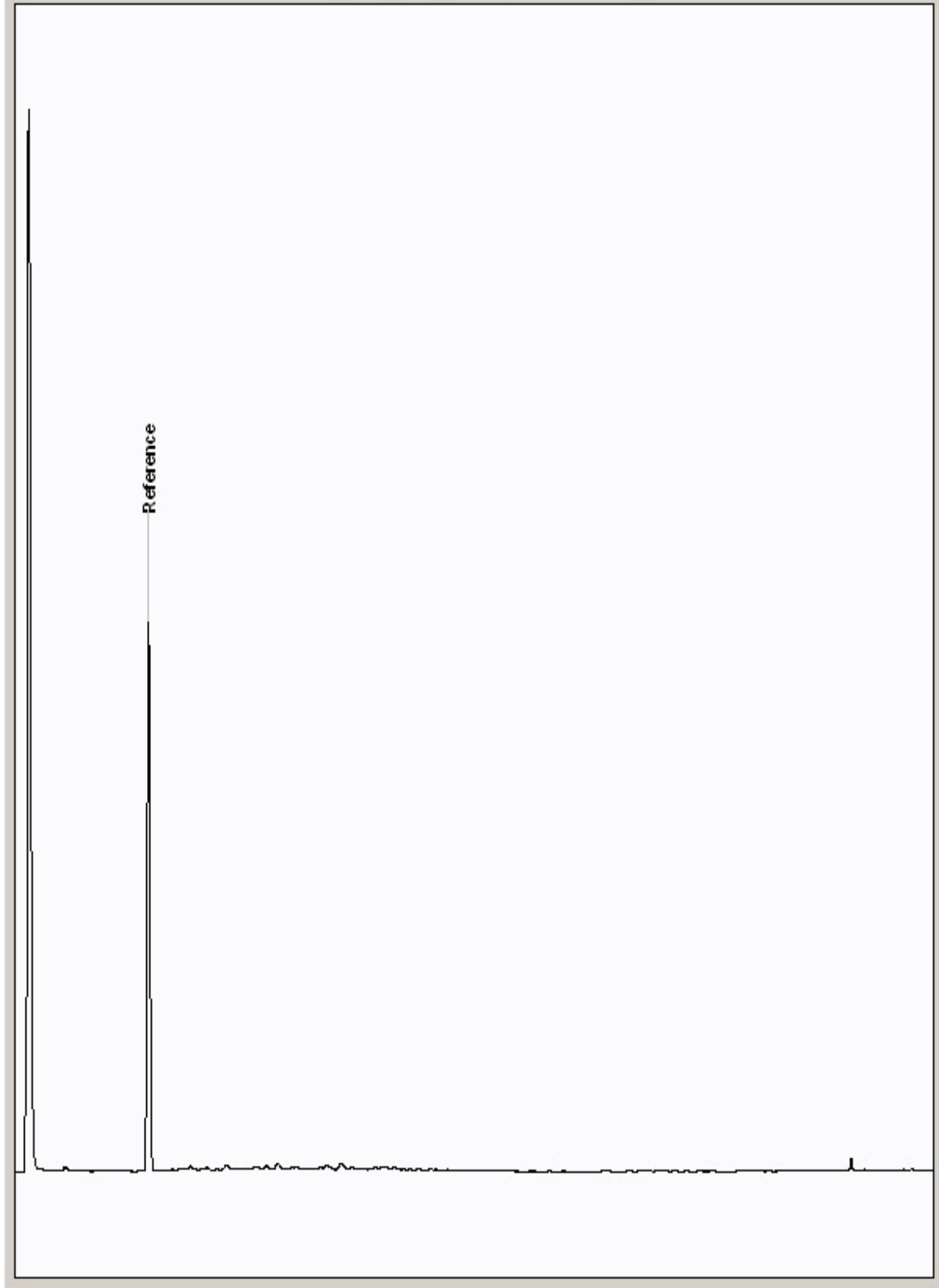
Chromatogram

Analysis: GRO by GC-FID (S)
19222844

Sample No :
Sample ID : BH227

19,222,844Depth : 1.00 - 2.00

19222844_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

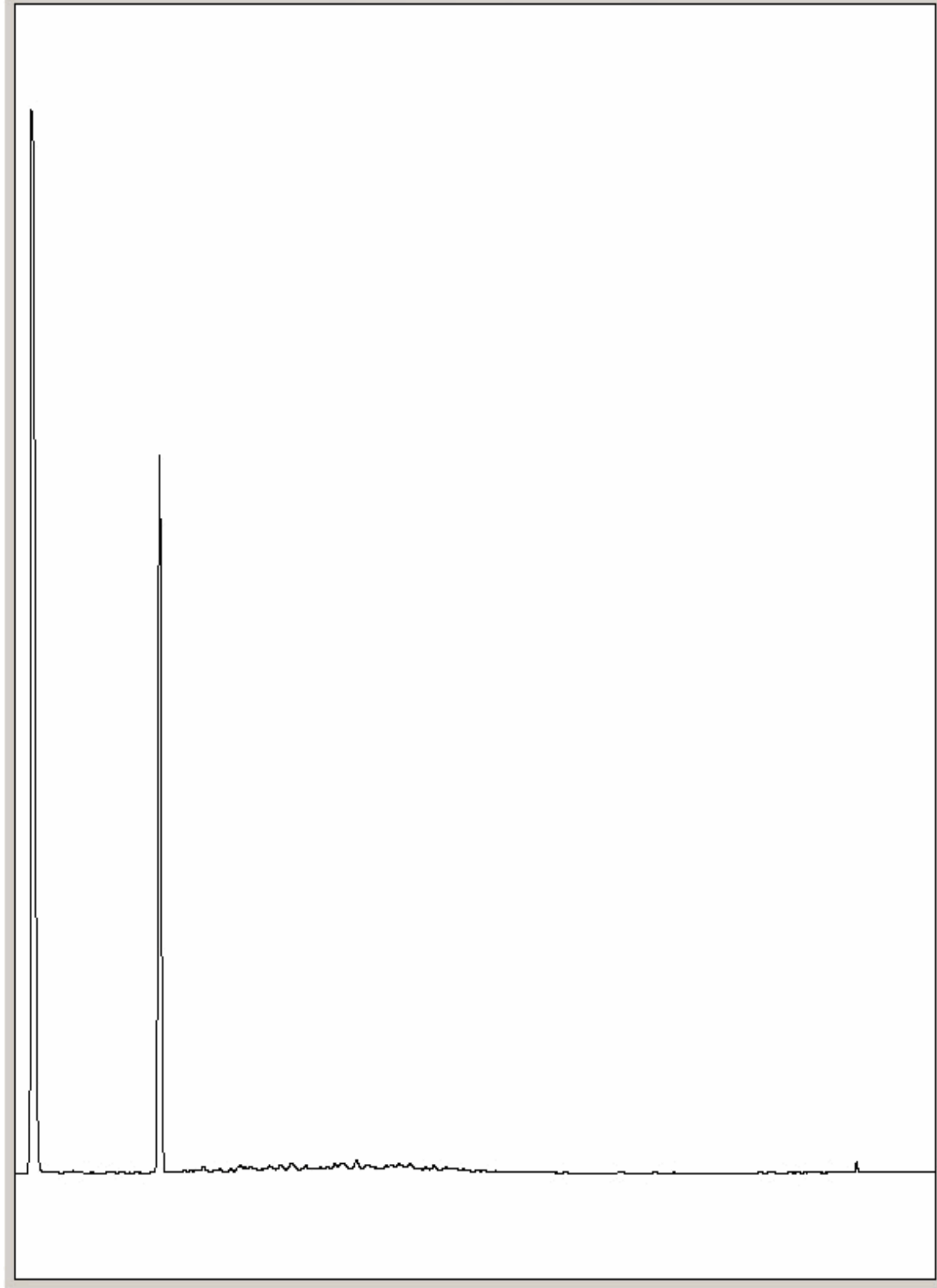
Chromatogram

Analysis: GRO by GC-FID (S)
19222873

Sample No :
Sample ID : BH226

19,222,873 **Depth :** 10.00 - 12.00

19222873_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

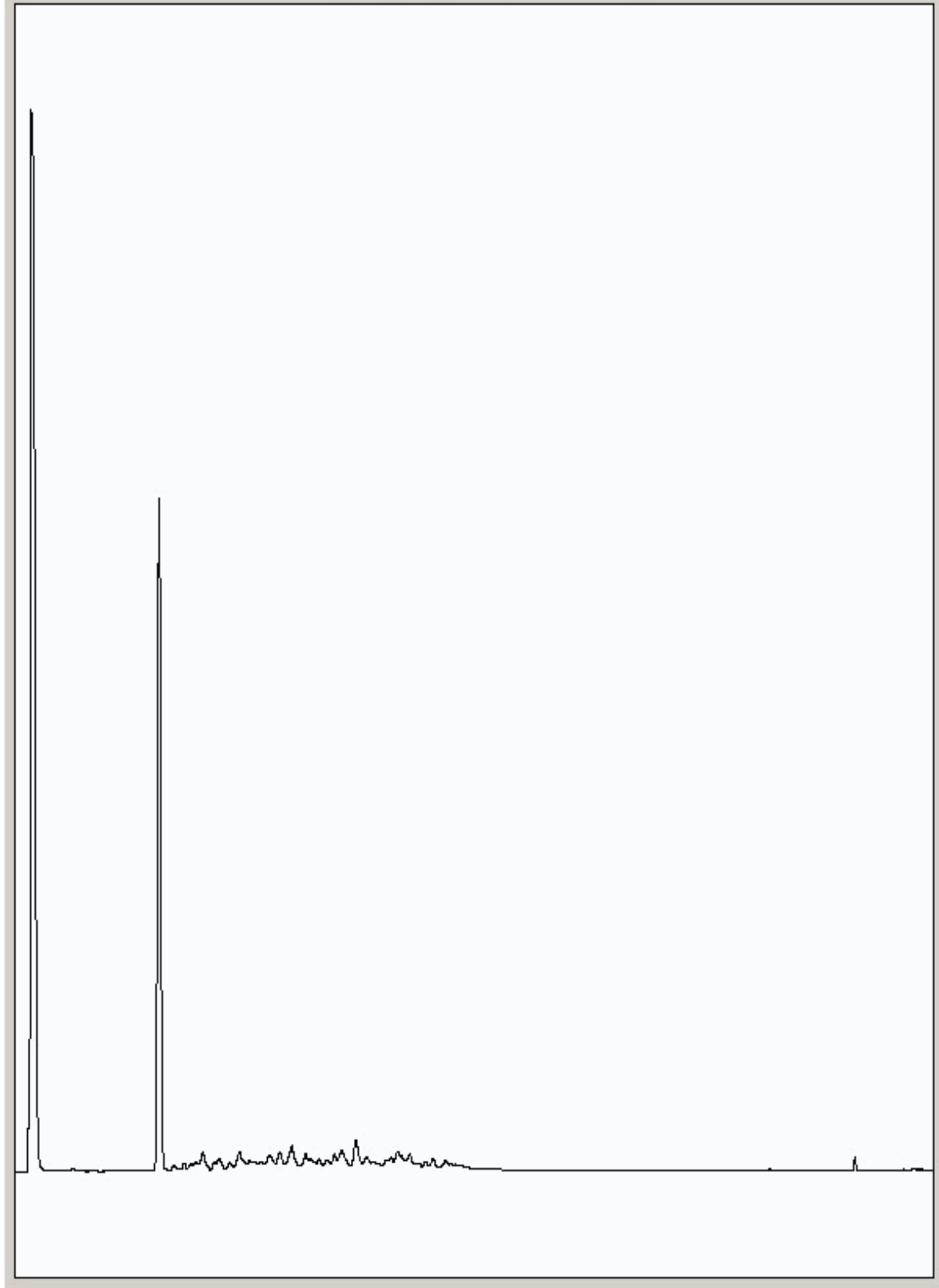
Chromatogram

Analysis: GRO by GC-FID (S)
19222896

Sample No :
Sample ID : BH229

19,222,896 **Depth :** 5.00 - 6.00

19222896_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

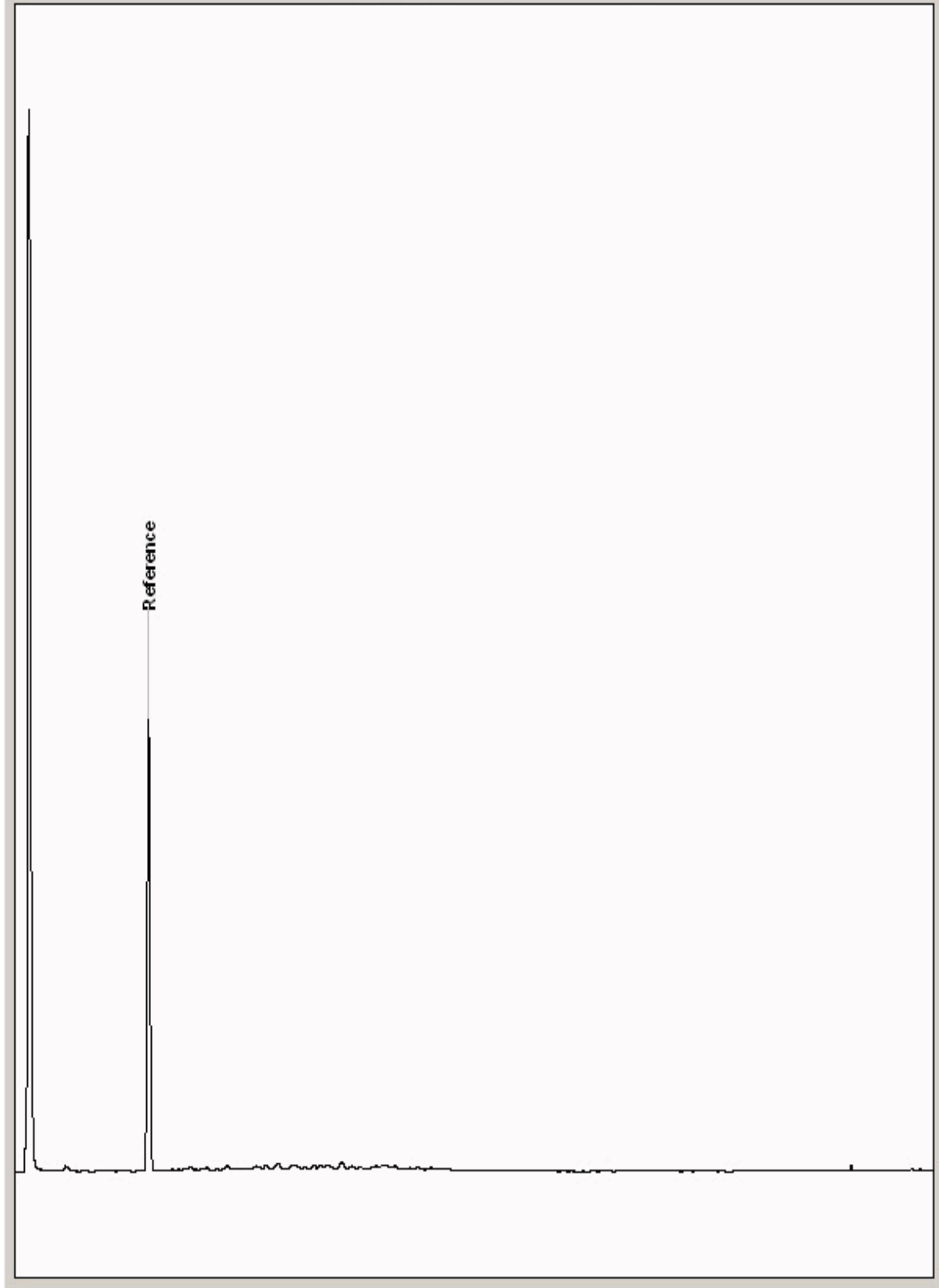
Chromatogram

Analysis: GRO by GC-FID (S)
19222912

Sample No :
Sample ID : BH227

19,222,912Depth :3.00 - 4.00

19222912_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

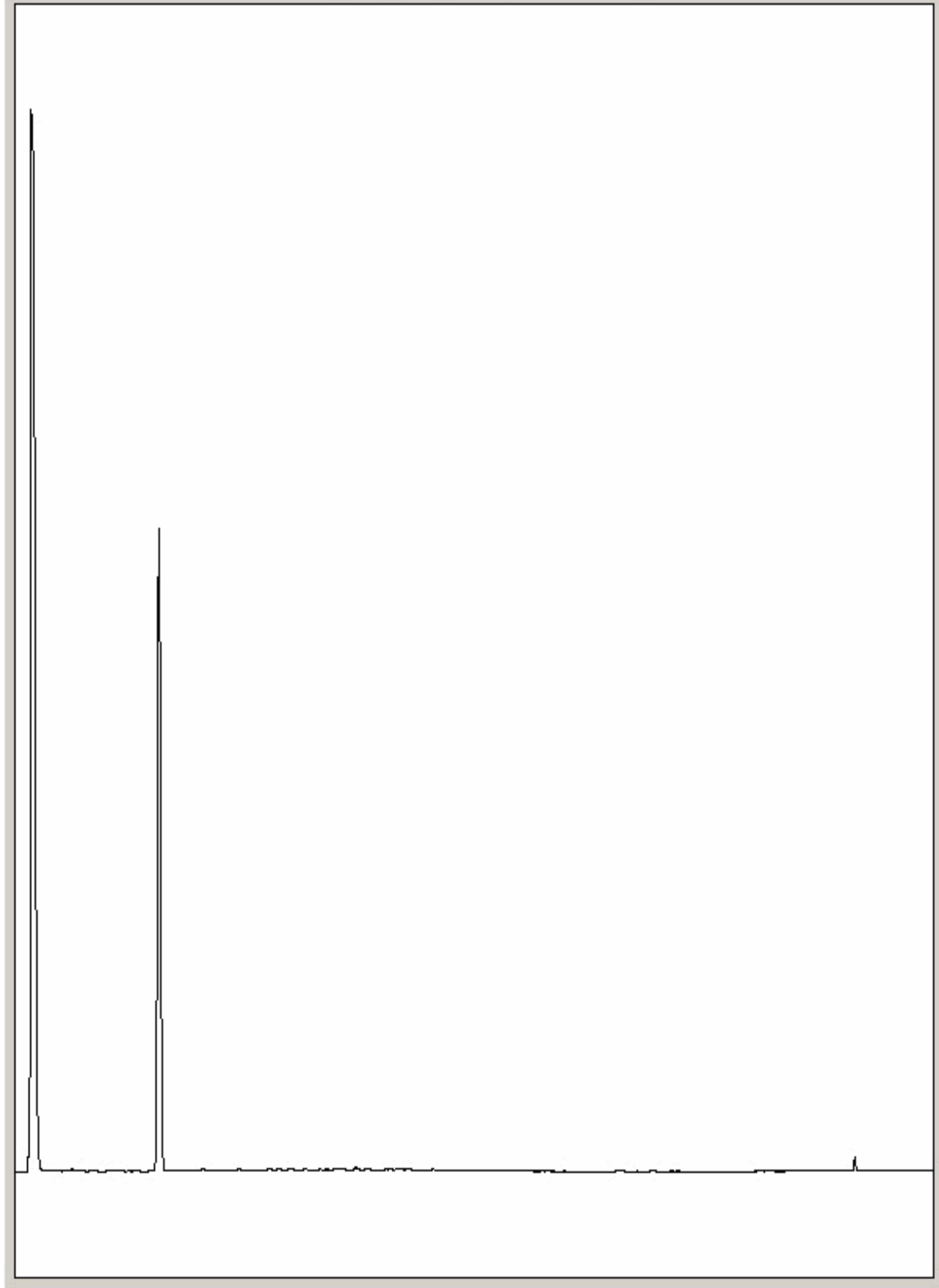
Chromatogram

Analysis: GRO by GC-FID (S)
19222924

Sample No :
Sample ID : BH229

19,222,924**Depth :** 7.00 - 9.00

19222924_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

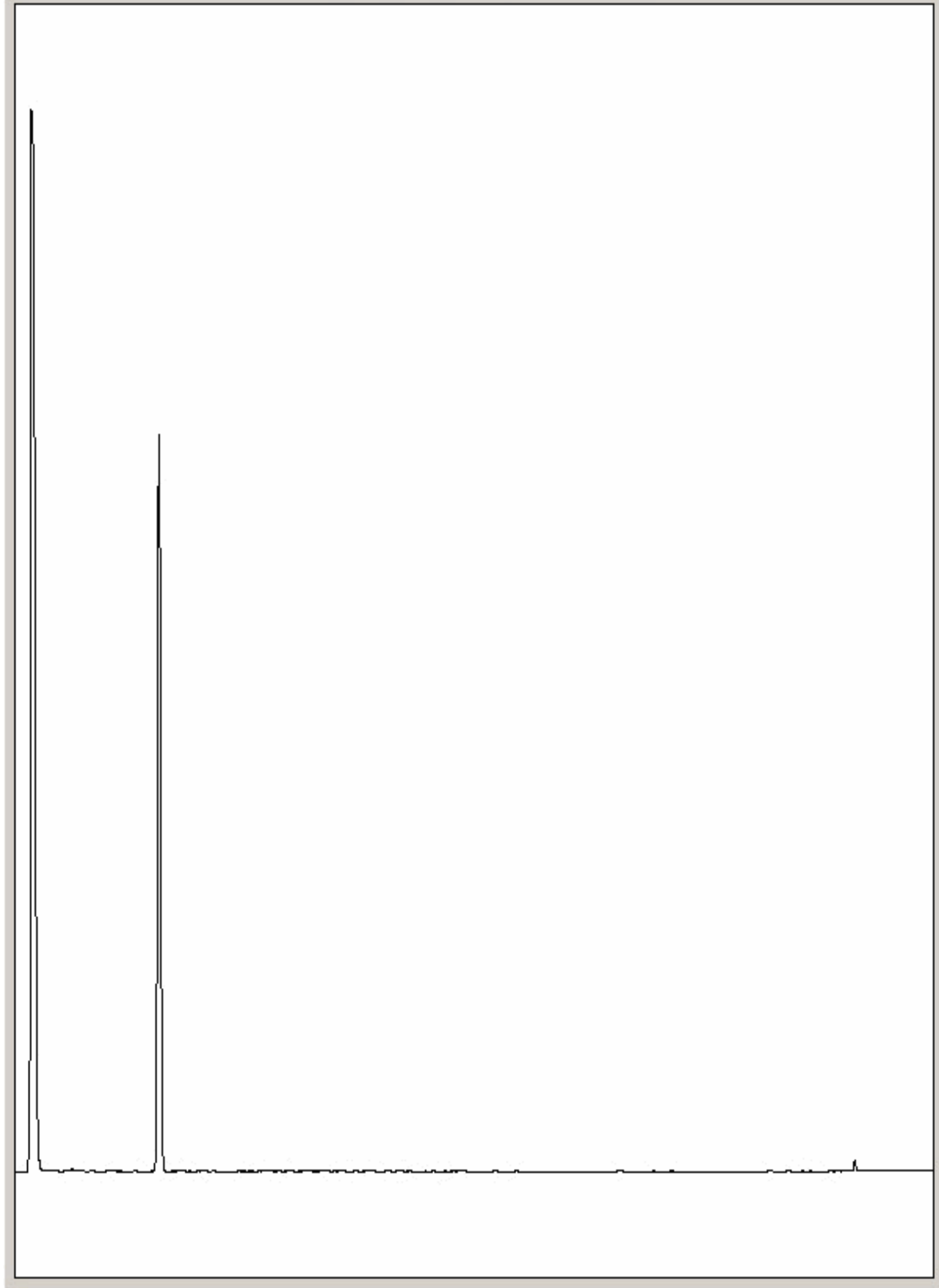
Chromatogram

Analysis: GRO by GC-FID (S)
19222950

Sample No :
Sample ID : BH228

19,222,950 **Depth :** 8.00 - 10.00

19222950_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

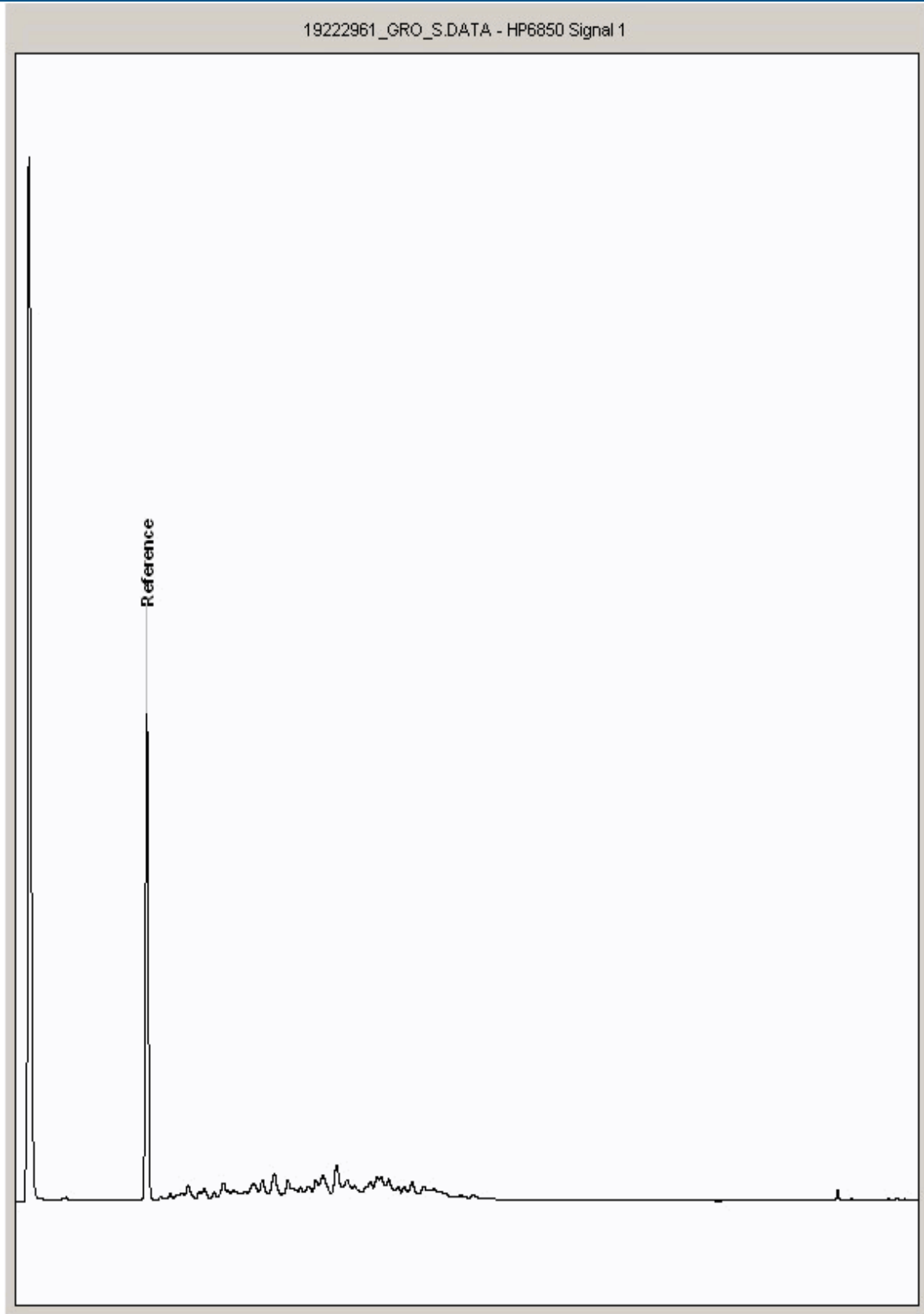
Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19222961

Sample No :
Sample ID : BH227

19,222,961 Depth : 2.00 - 3.00





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

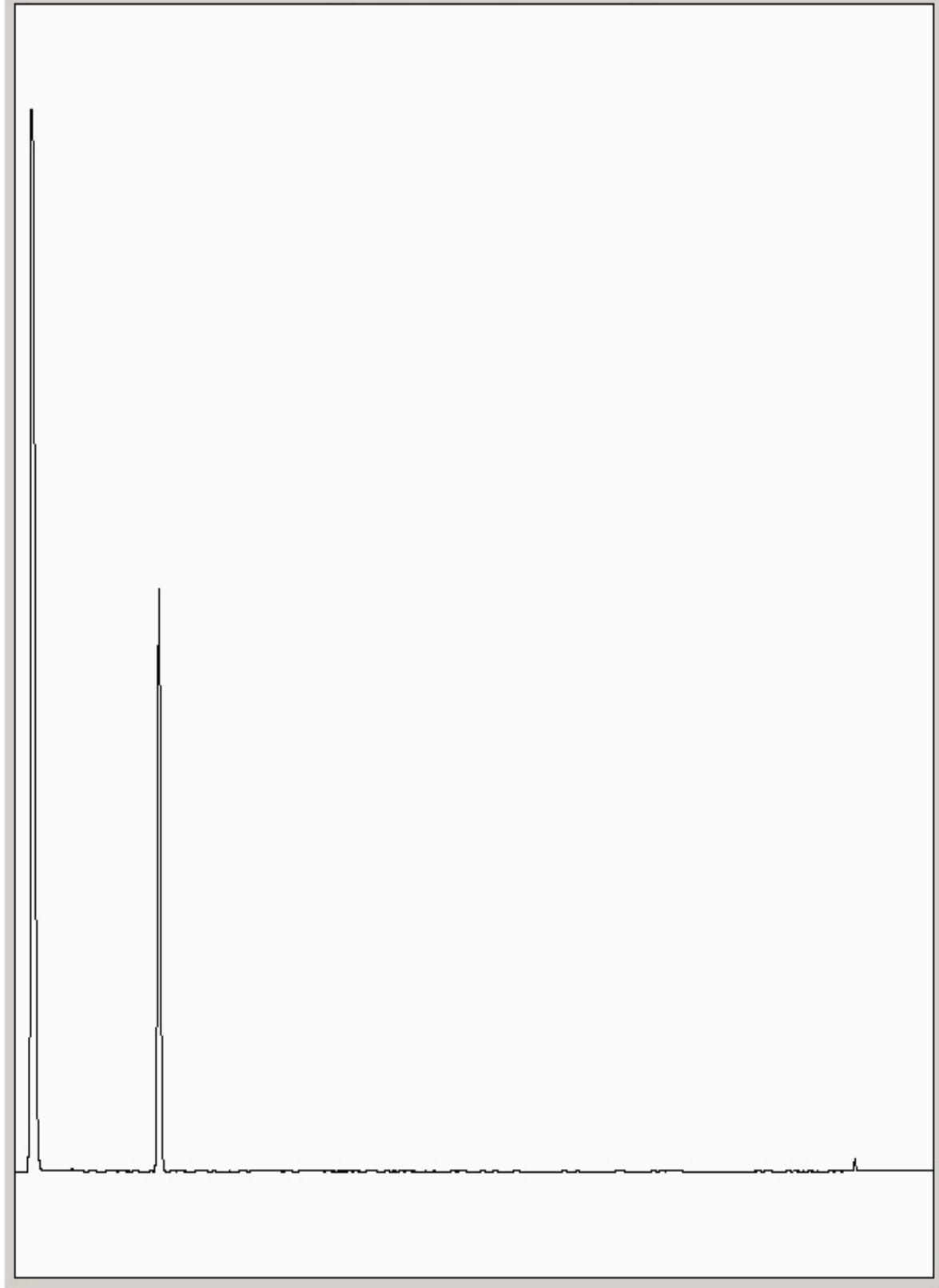
Chromatogram

Analysis: GRO by GC-FID (S)
19223120

Sample No :
Sample ID : BH229

19,223,120Depth :0.00 - 0.50

19223120_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

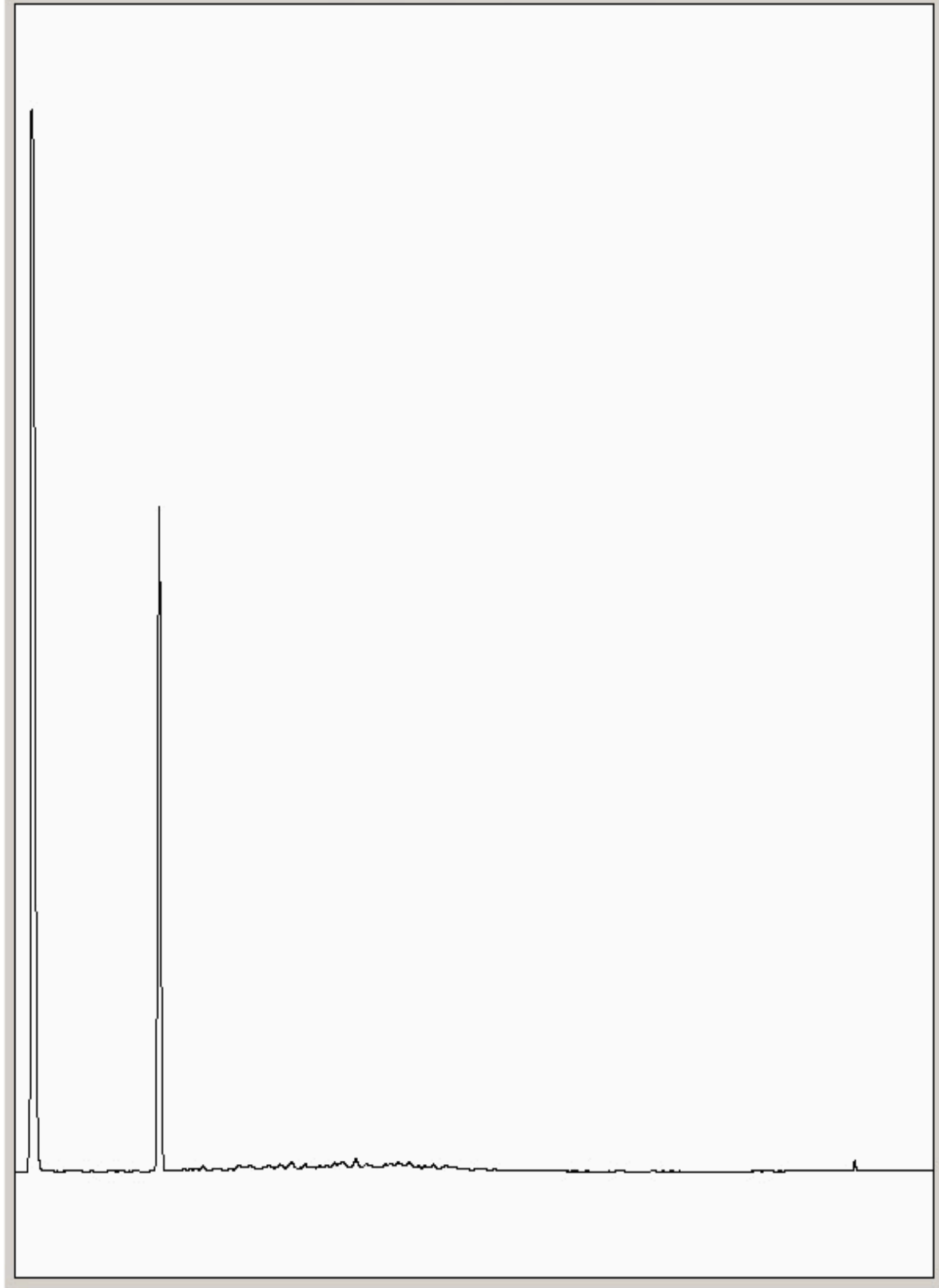
Chromatogram

Analysis: GRO by GC-FID (S)
19223250

Sample No :
Sample ID : BH226

19,223,250Depth :8.00 - 9.00

19223250_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

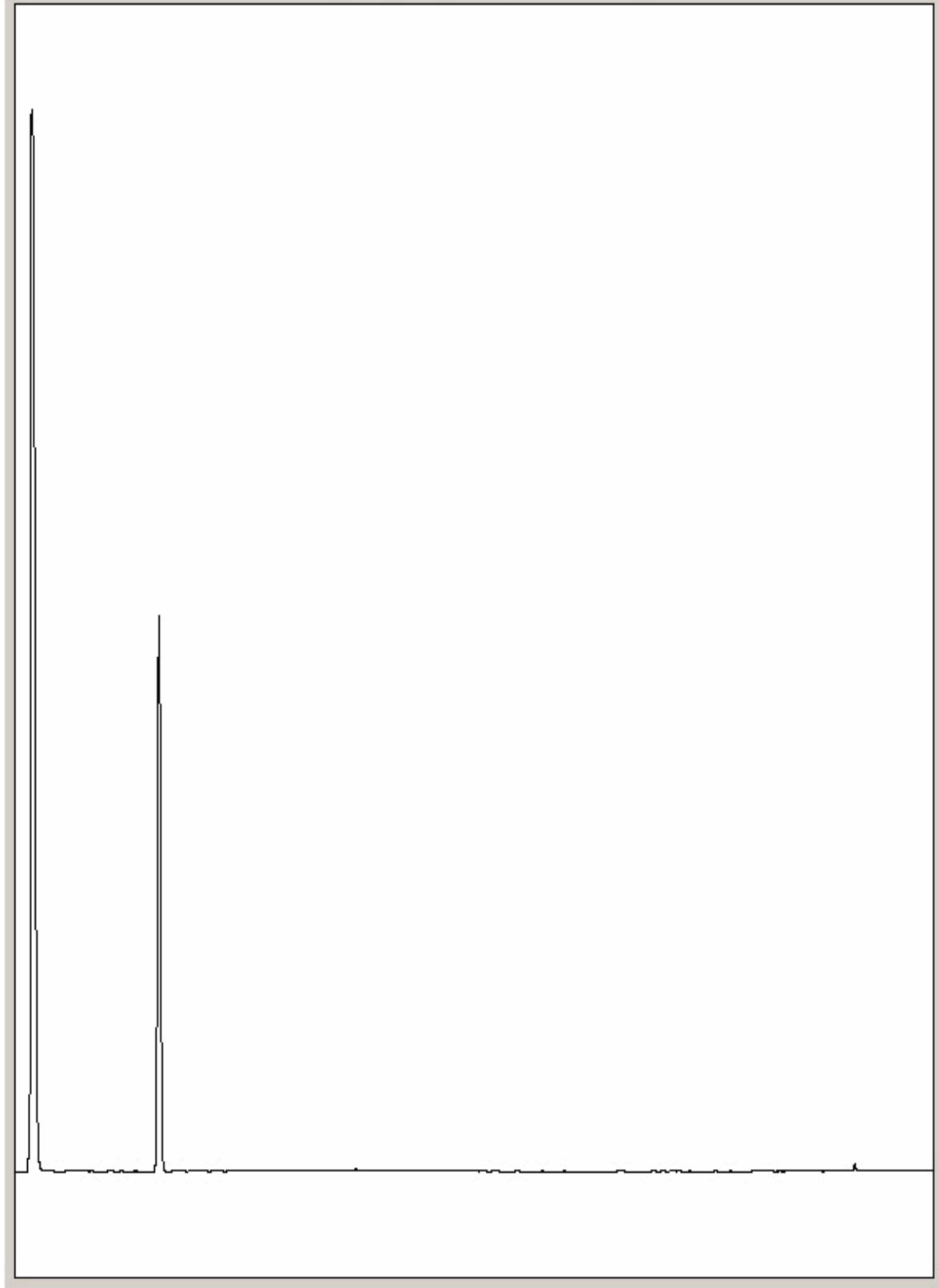
Chromatogram

Analysis: GRO by GC-FID (S)
19223279

Sample No :
Sample ID : BH228

19,223,279 **Depth :** 7.00 - 8.00

19223279_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

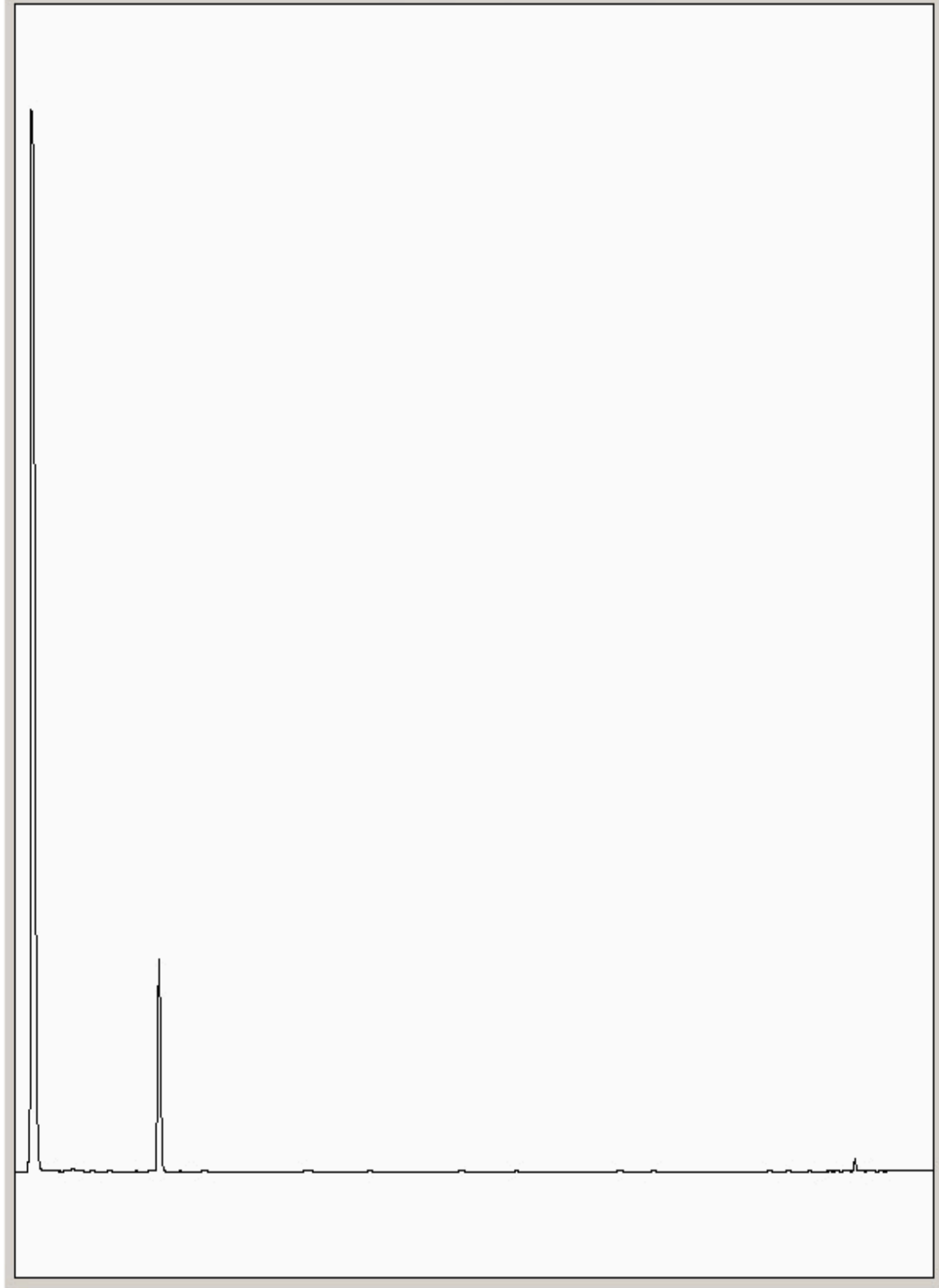
Chromatogram

Analysis: GRO by GC-FID (S)
19224268

Sample No :
Sample ID : BH225

19,224,268 **Depth :** 12.00 - 13.00

19224268_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

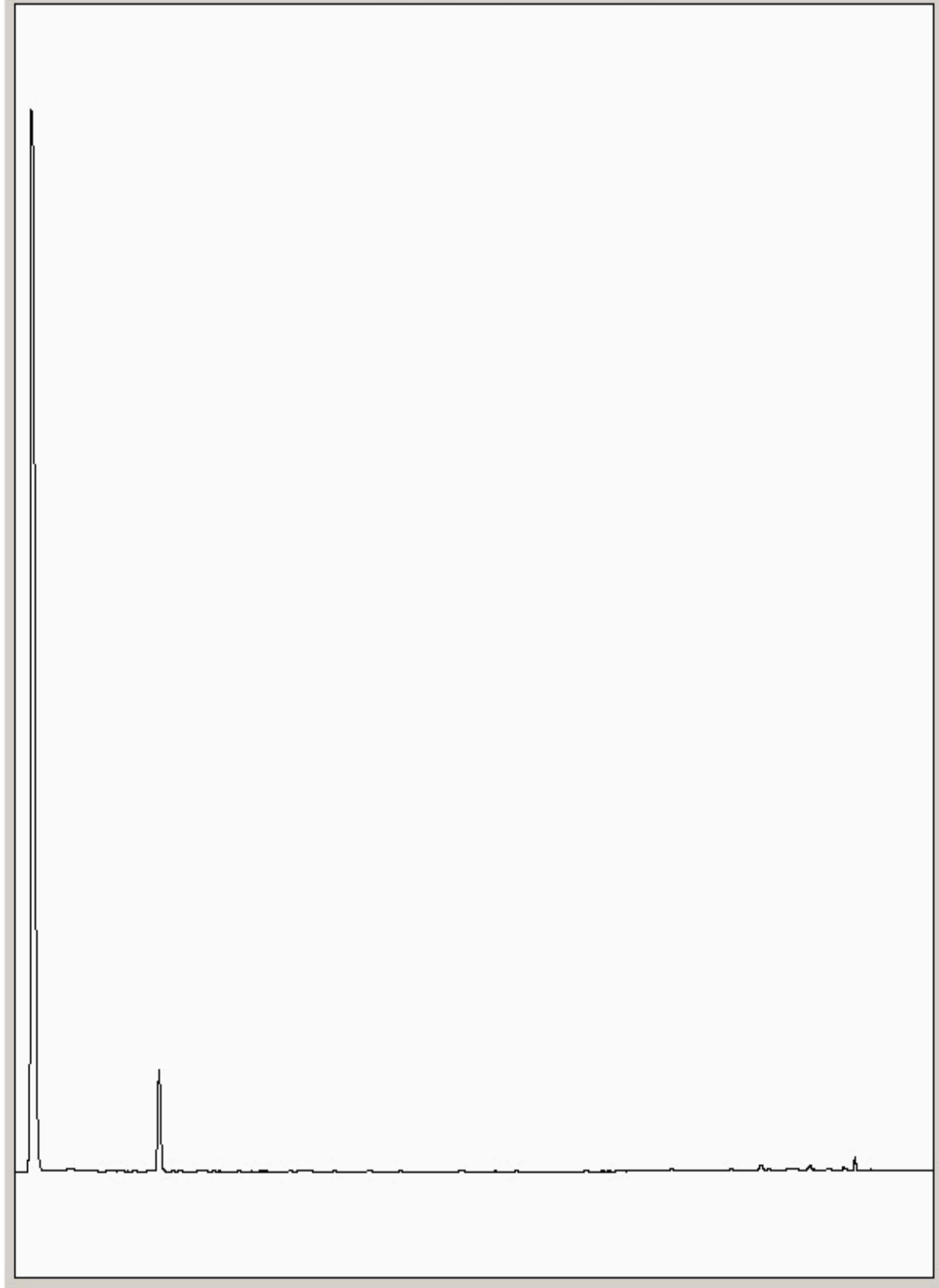
Chromatogram

Analysis: GRO by GC-FID (S)
19224295

Sample No :
Sample ID : BH225

19,224,295 **Depth :** 15.00 - 17.00

19224295_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

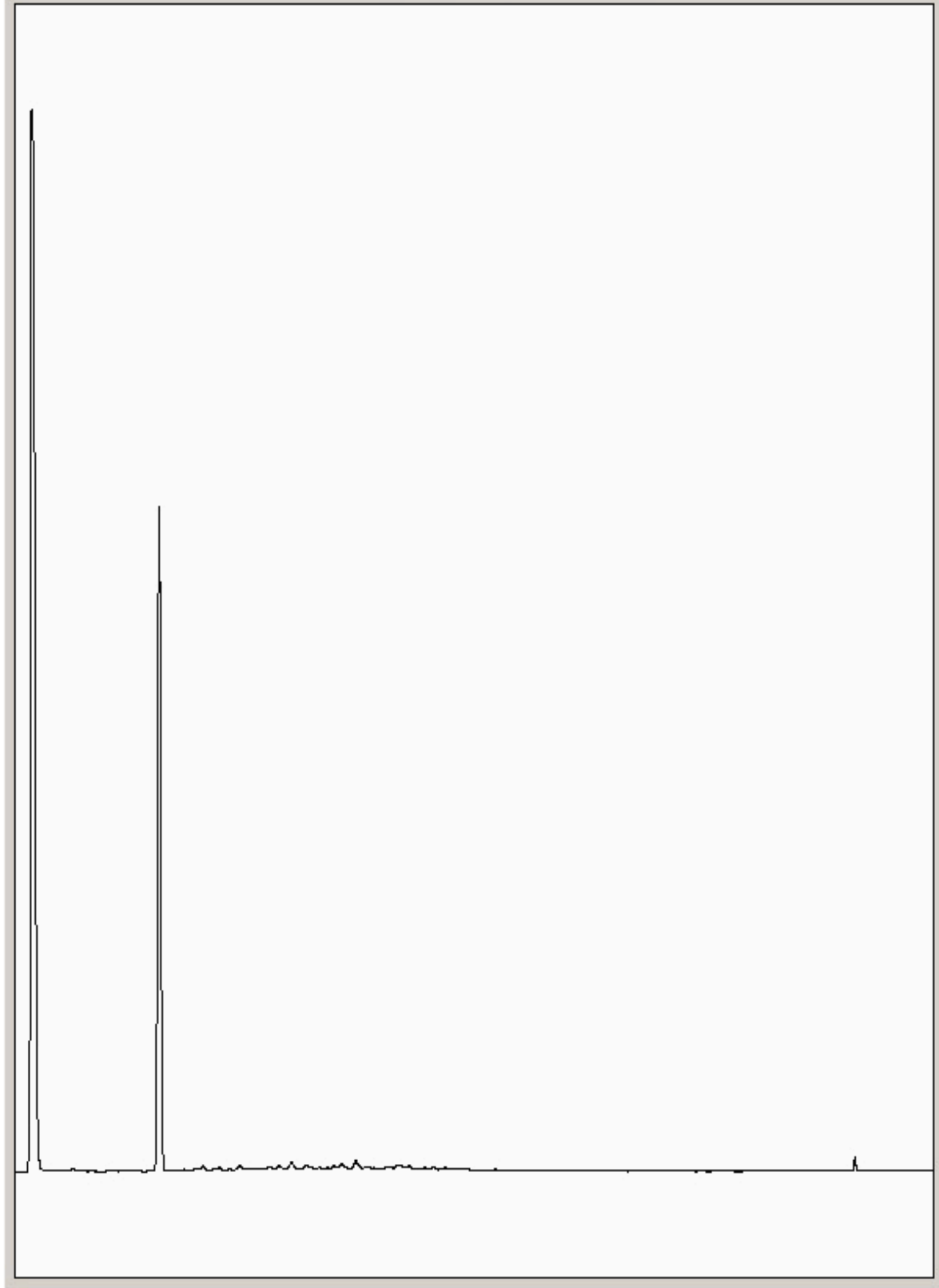
Chromatogram

Analysis: GRO by GC-FID (S)
19225878

Sample No :
Sample ID : BH229

19,225,878 **Depth :** 1.00 - 2.00

19225878_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

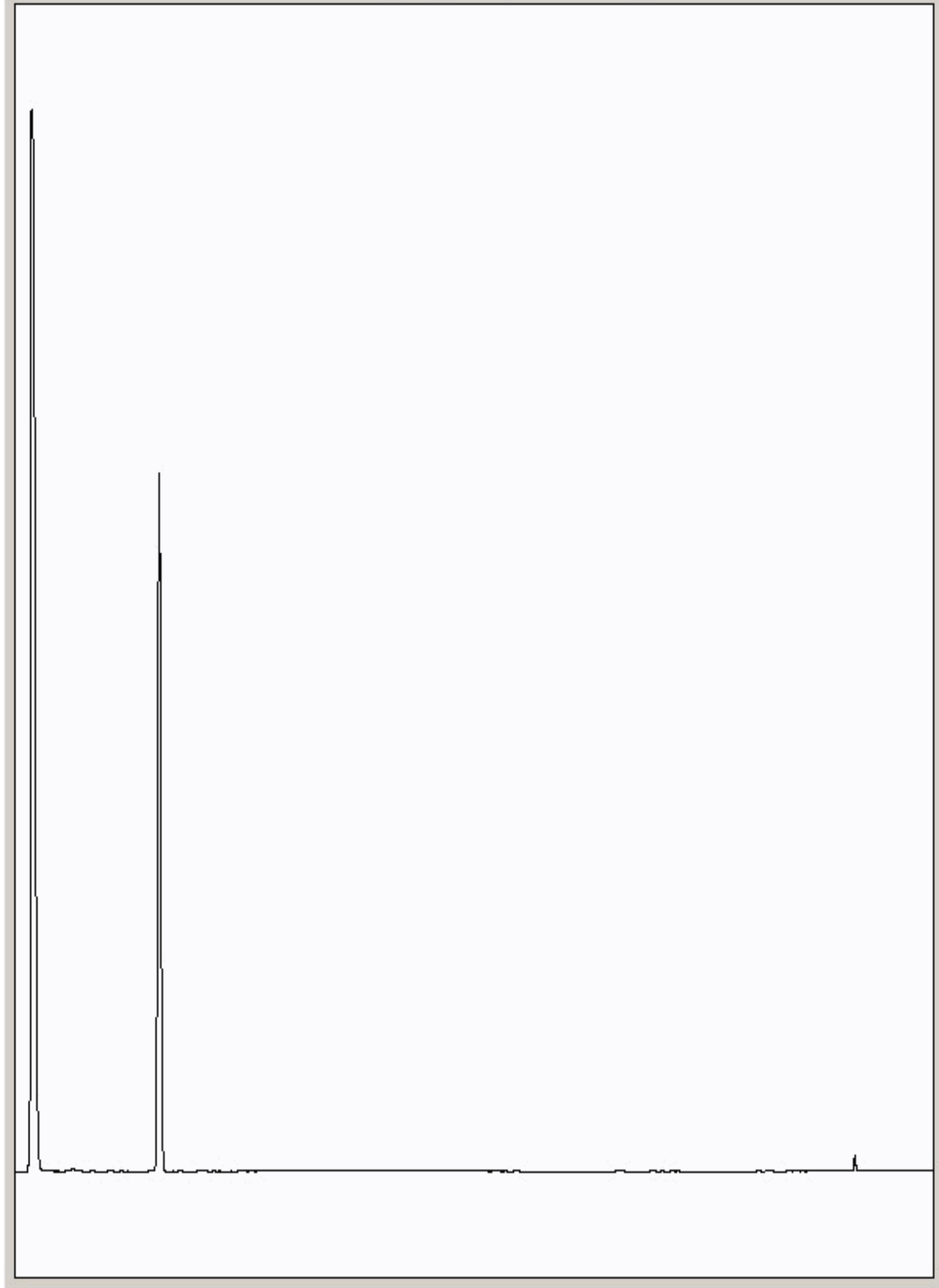
Chromatogram

Analysis: GRO by GC-FID (S)
19225930

Sample No :
Sample ID : BH228

19,225,930 **Depth :** 0.00 - 0.50

19225930_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

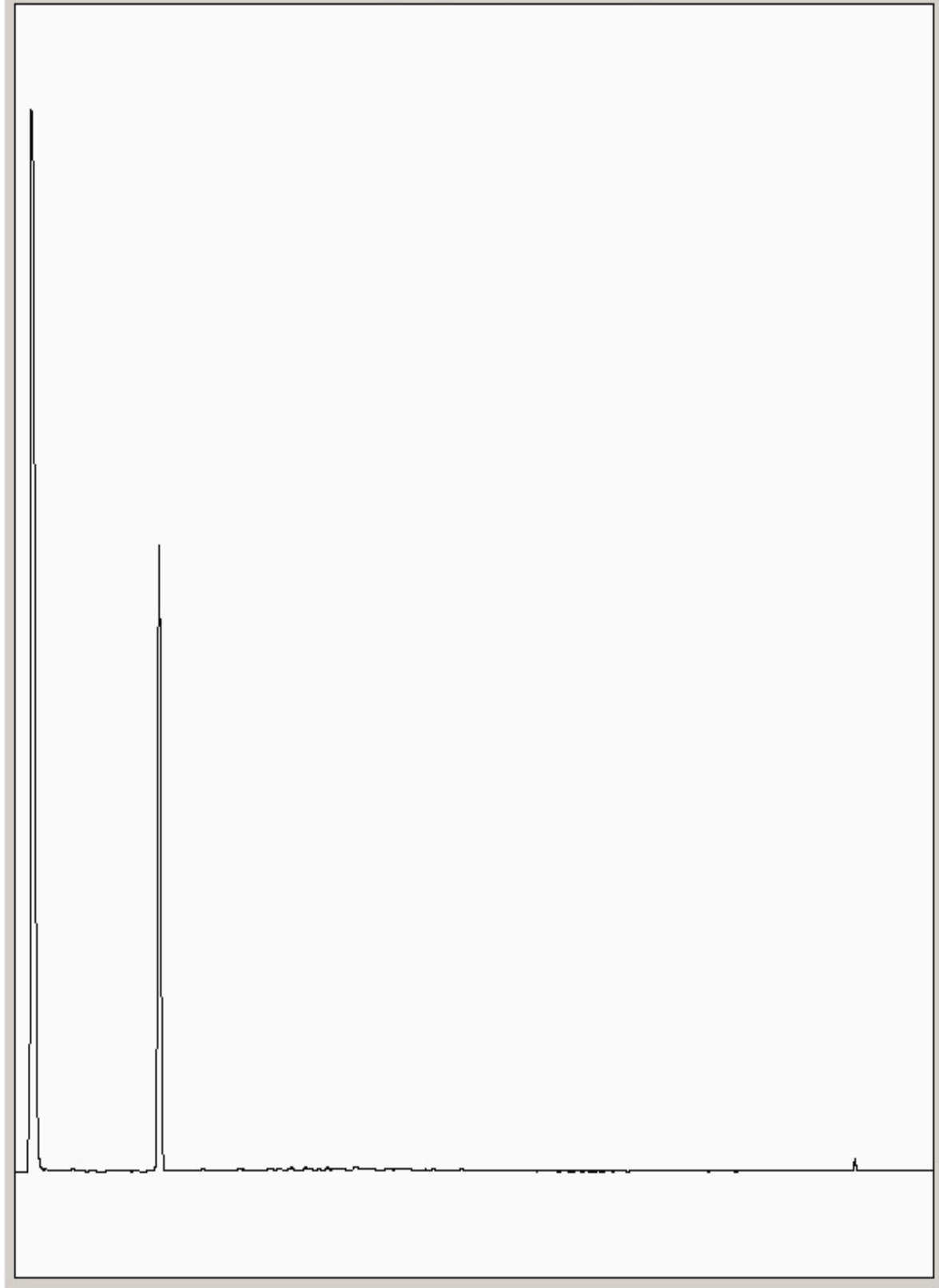
Chromatogram

Analysis: GRO by GC-FID (S)
19225938

Sample No :
Sample ID : BH228

19,225,938Depth :4.00 - 5.00

19225938_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

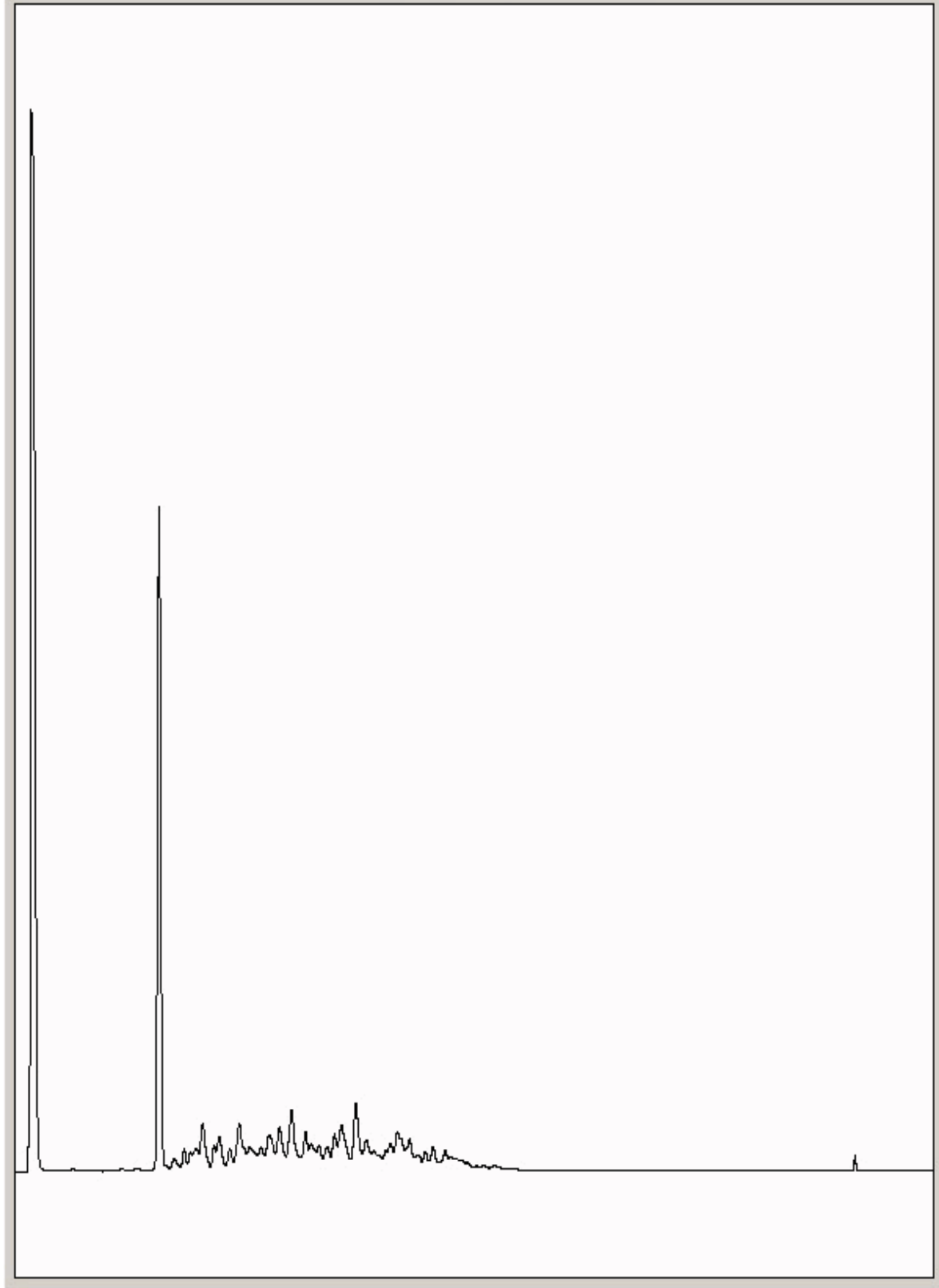
Chromatogram

Analysis: GRO by GC-FID (S)
19225991

Sample No :
Sample ID : BH229

19,225,991**Depth :**3.00 - 4.00

19225991_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19226032

Sample No :
Sample ID : BH228

19,226,032**Depth :** 5.00 - 6.00

19226032_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

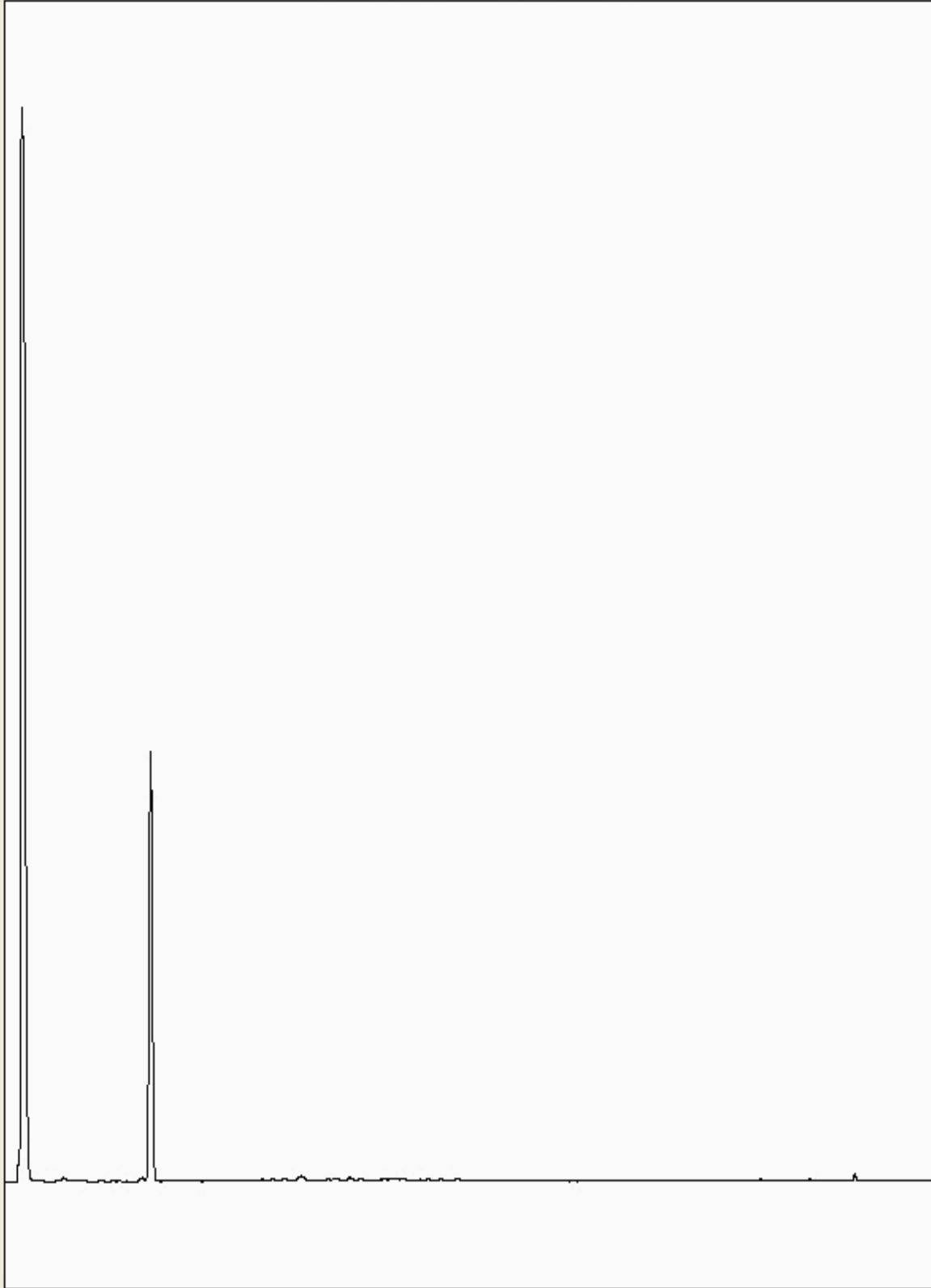
Chromatogram

Analysis: GRO by GC-FID (S)
19226042

Sample No :
Sample ID : BH228

19,226,042 **Depth :** 0.50 - 1.00

19226042_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

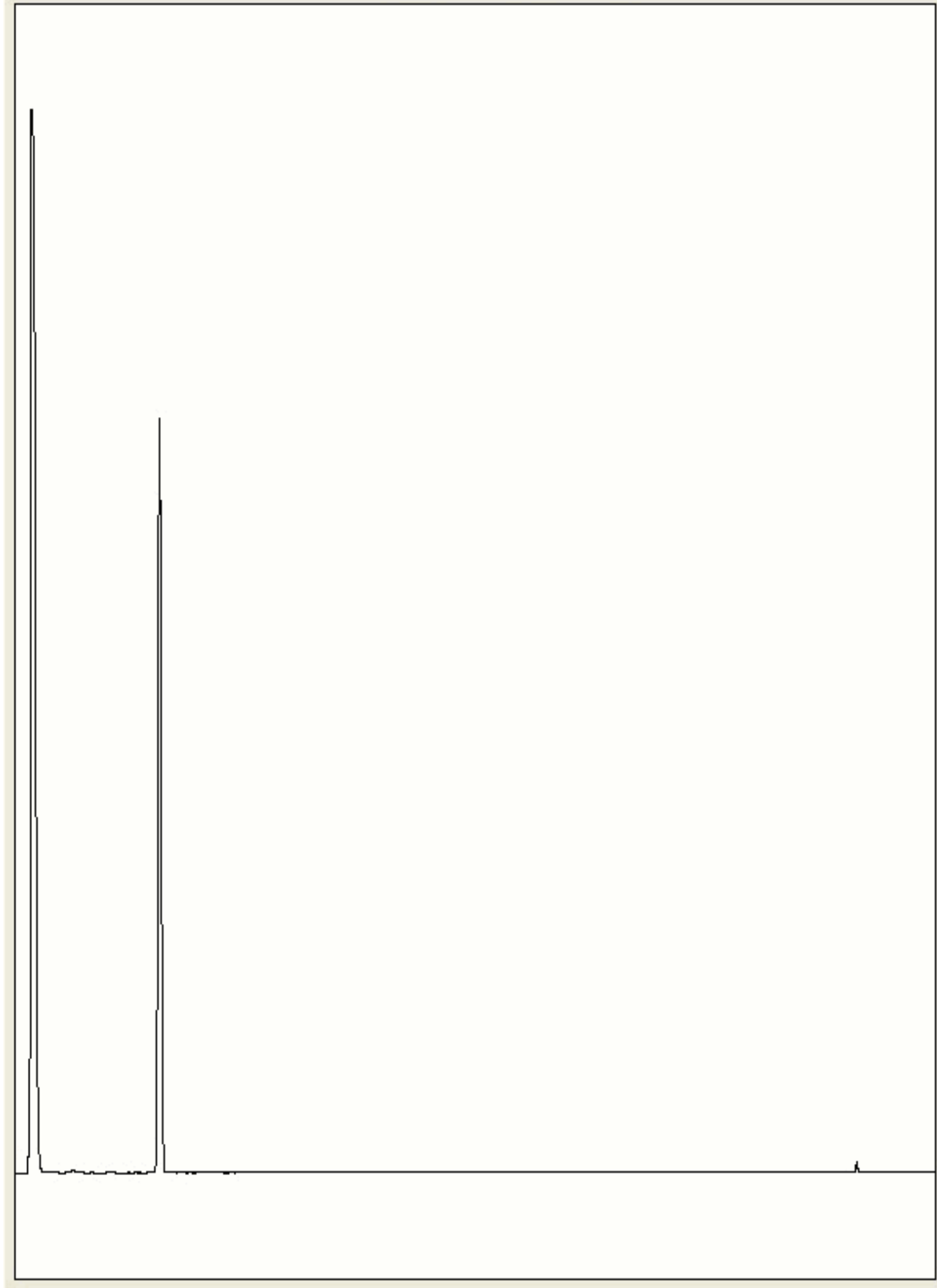
Chromatogram

Analysis: GRO by GC-FID (S)
19227109

Sample No :
Sample ID : BH228

19,227,109 **Depth :** 10.00 - 11.00

19227109_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

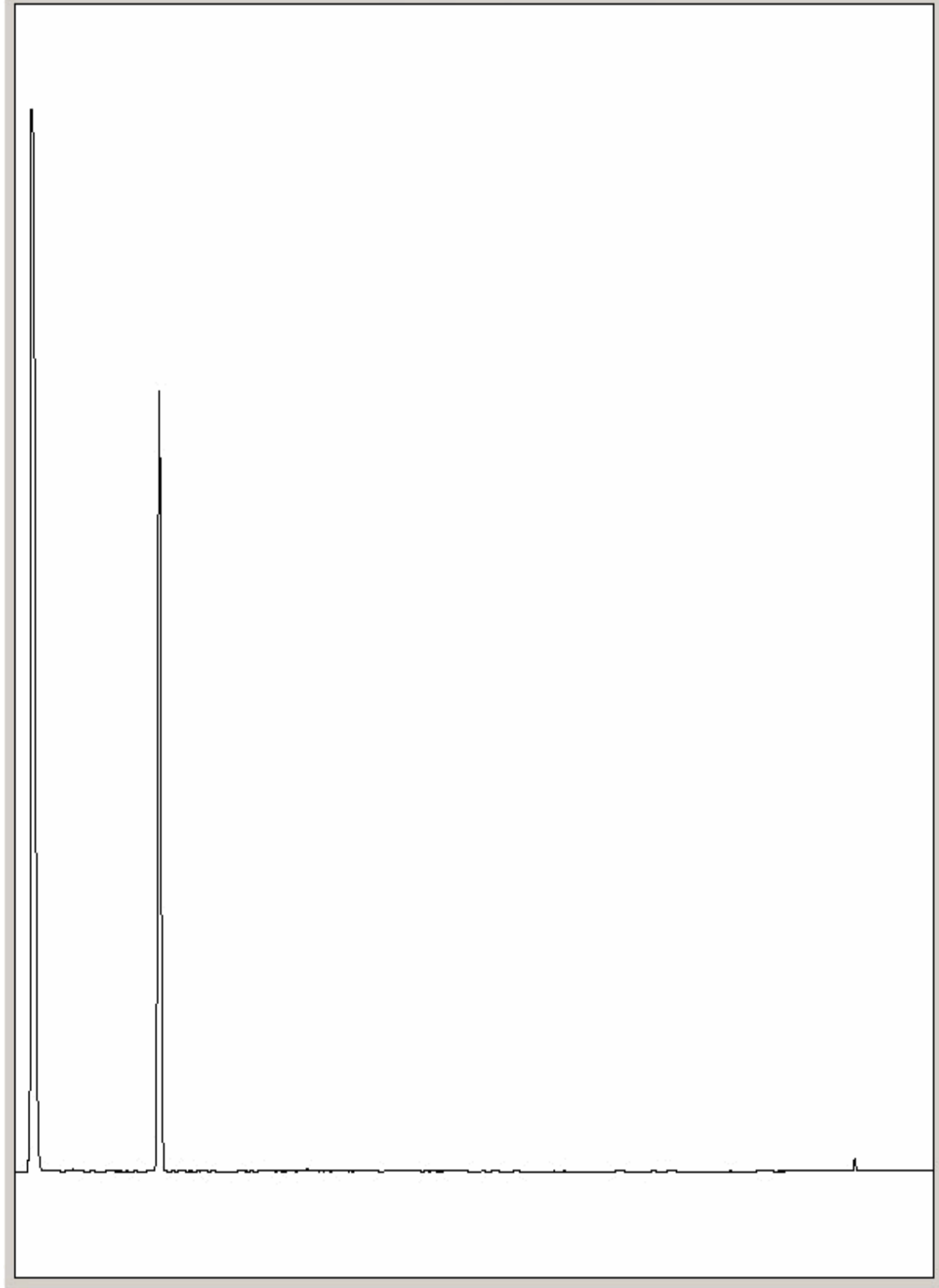
Chromatogram

Analysis: GRO by GC-FID (S)
19229513

Sample No :
Sample ID : BH228

19,229,513 **Depth :** 11.00 - 13.00

19229513_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

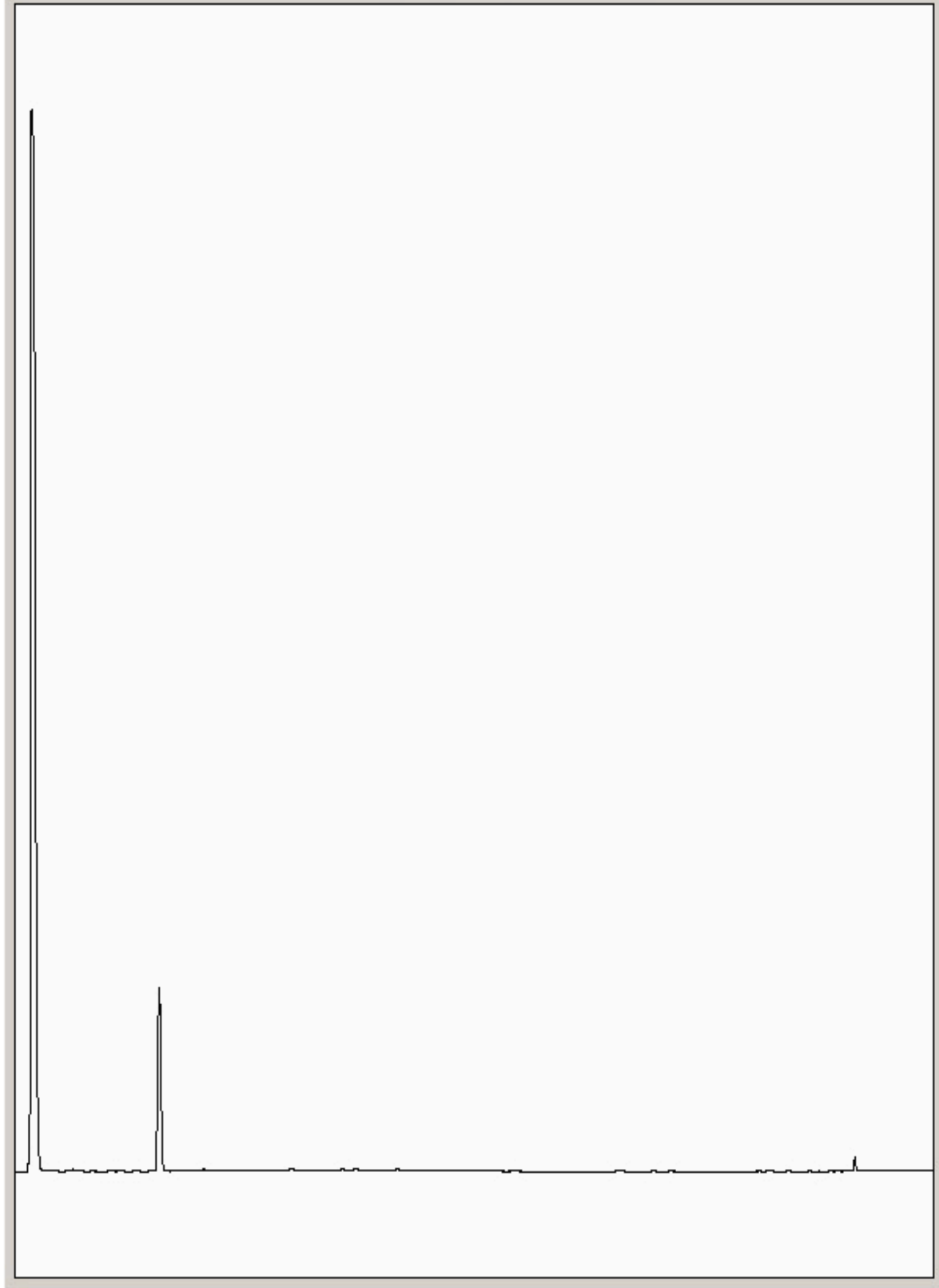
Chromatogram

Analysis: GRO by GC-FID (S)
19229530

Sample No :
Sample ID : BH229

19,229,530 **Depth :** 13.00 - 14.00

19229530_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

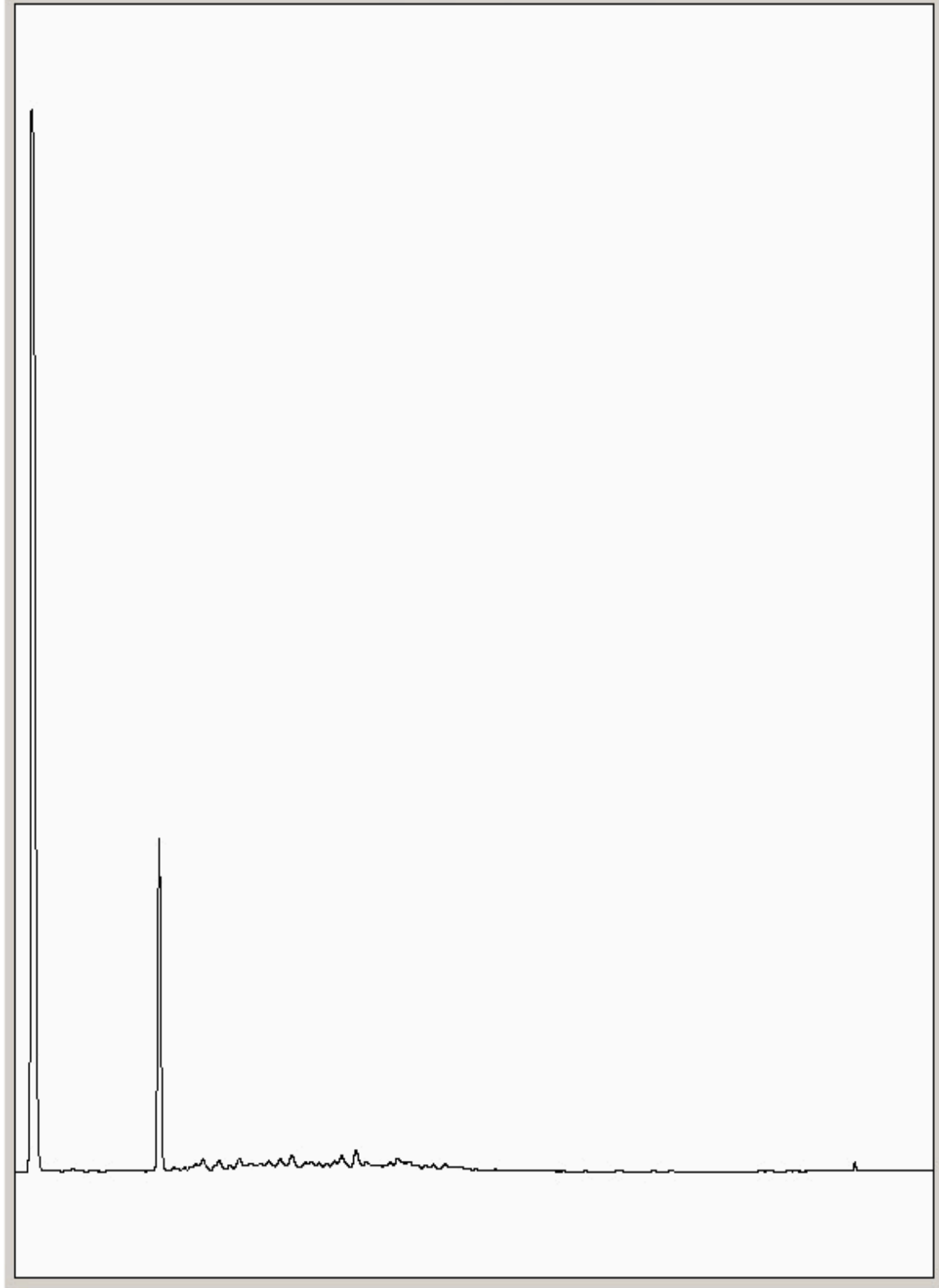
Chromatogram

Analysis: GRO by GC-FID (S)
19229548

Sample No :
Sample ID : BH226

19,229,548 **Depth :** 13.00 - 14.00

19229548_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

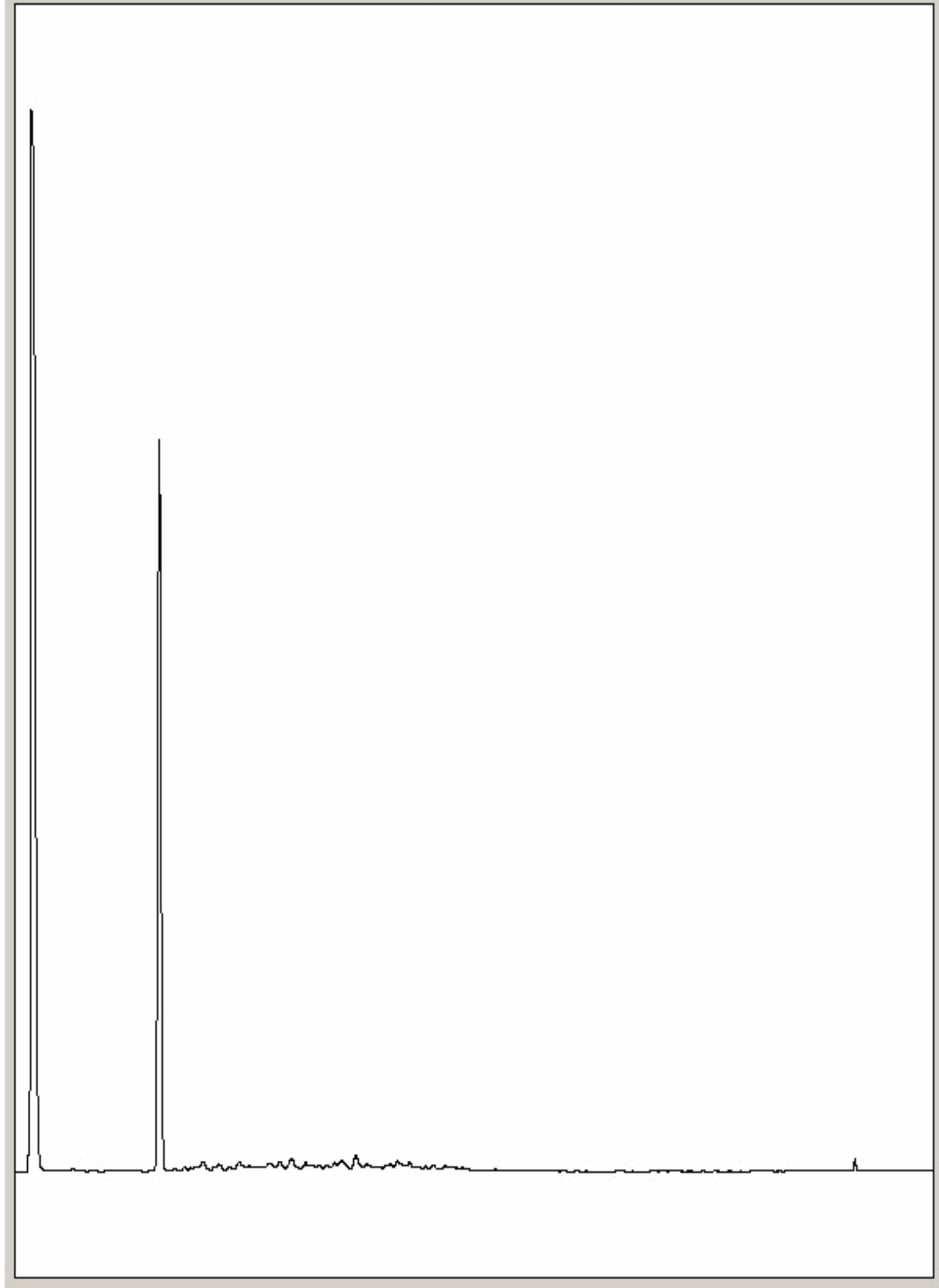
Chromatogram

Analysis: GRO by GC-FID (S)
19229580

Sample No :
Sample ID : BH229

19,229,580 **Depth :** 4.00 - 5.00

19229580_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

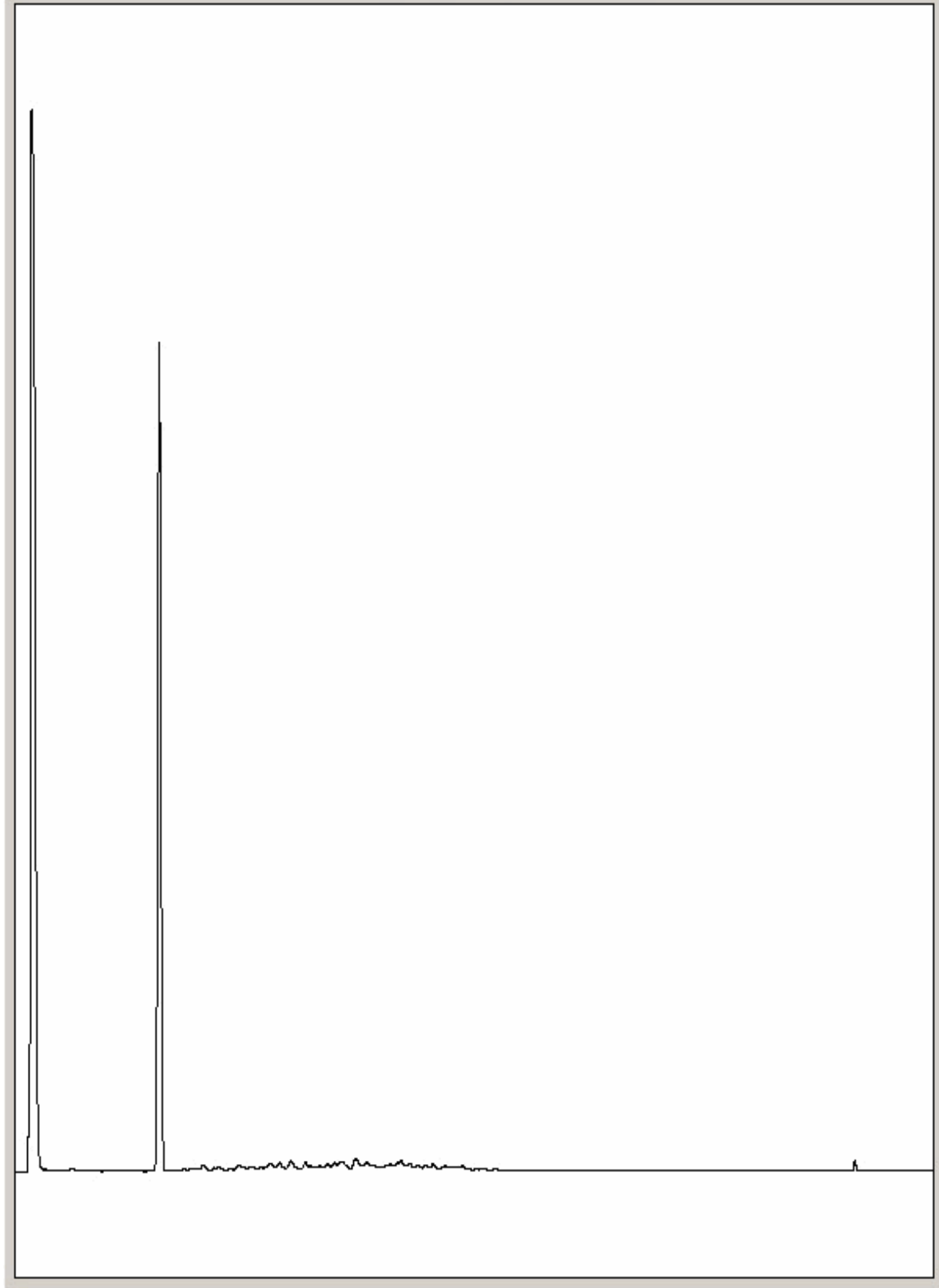
Chromatogram

Analysis: GRO by GC-FID (S)
19229761

Sample No :
Sample ID : BH228

19,229,761 **Depth :** 3.00 - 4.00

19229761_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

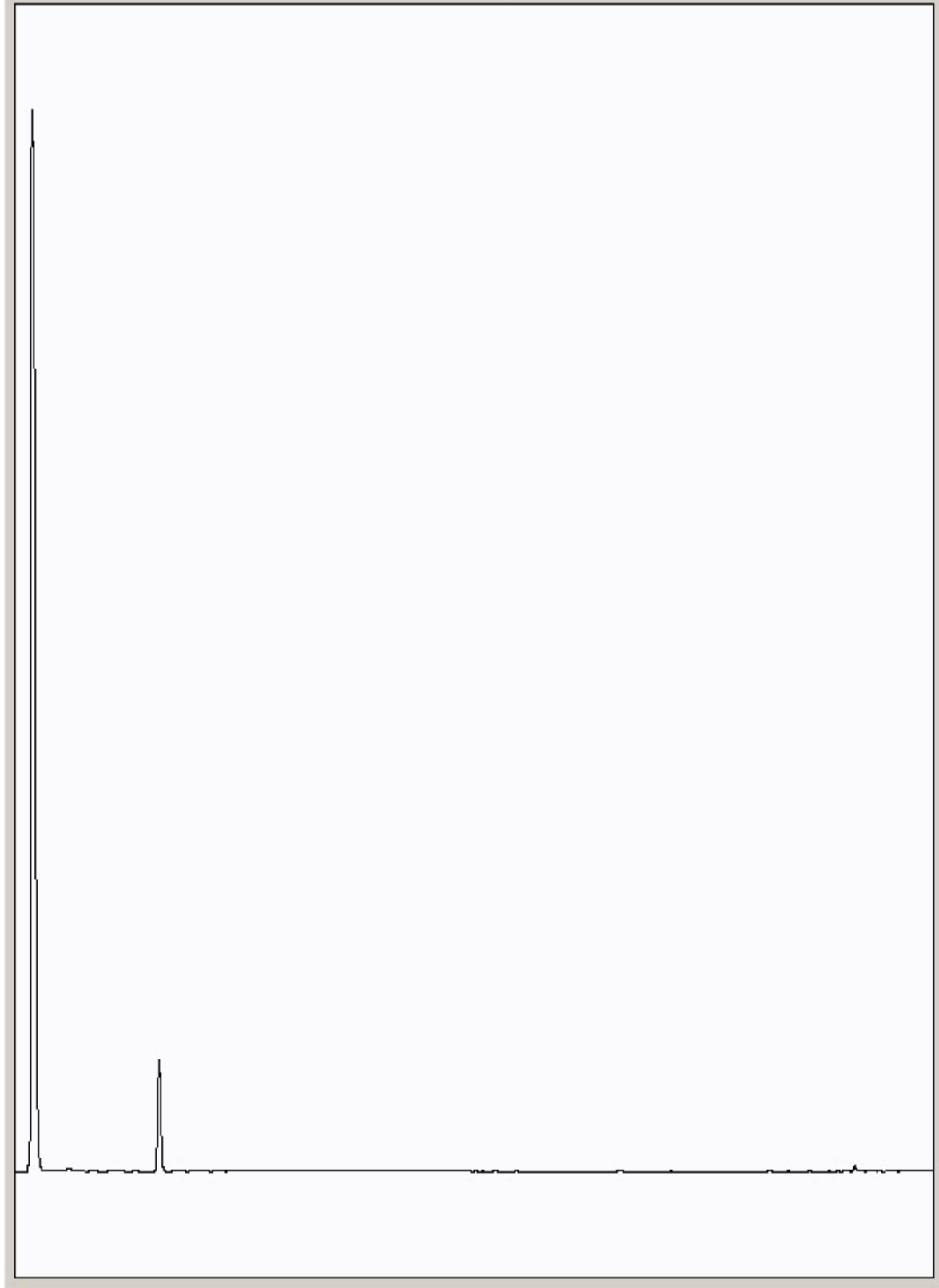
Chromatogram

Analysis: GRO by GC-FID (S)
19229905

Sample No :
Sample ID : BH227

19,229,905 **Depth :** 15.00 - 17.00

19229905_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

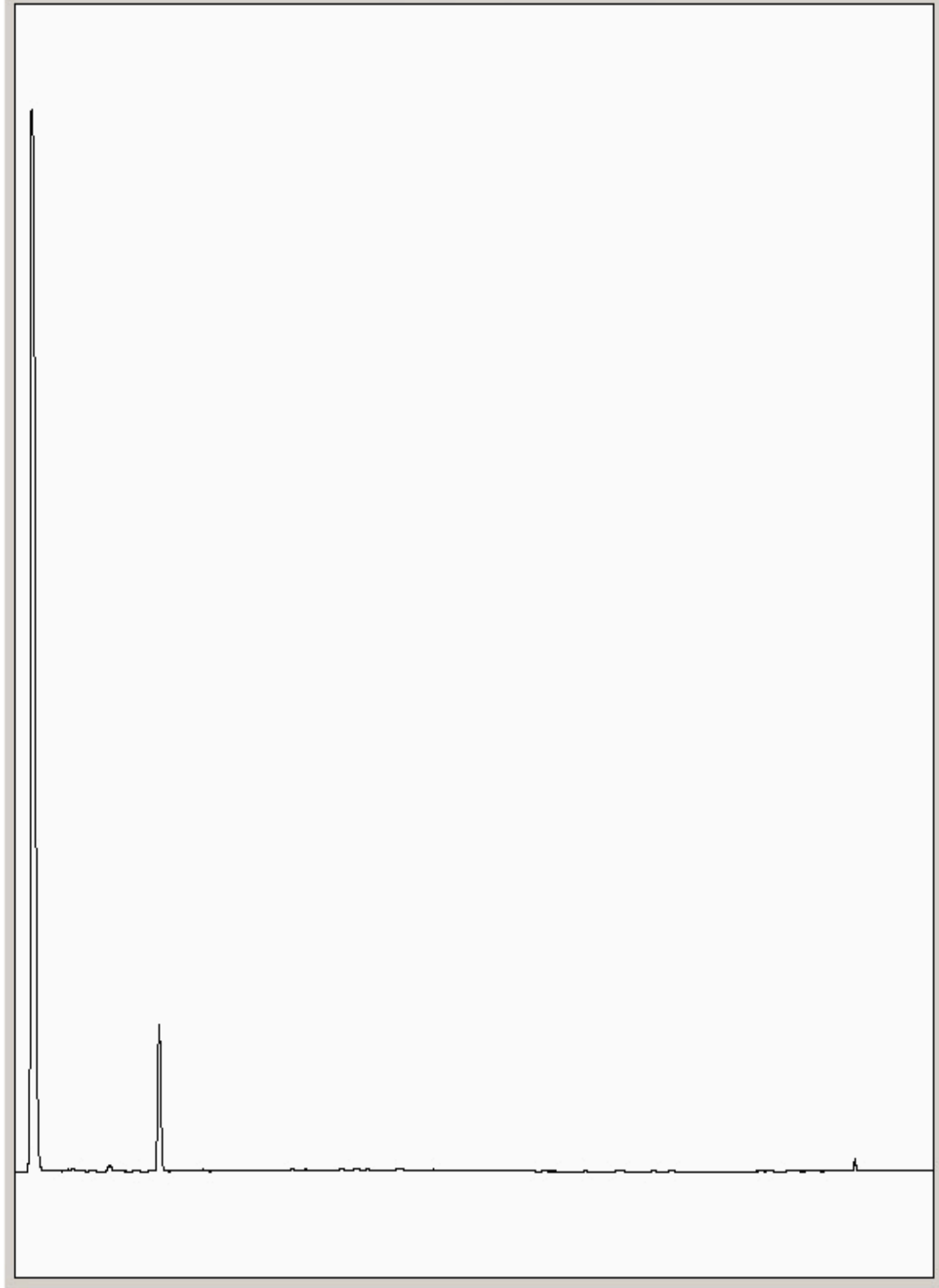
Chromatogram

Analysis: GRO by GC-FID (S)
19230320

Sample No :
Sample ID : BH227

19,230,320**Depth :** 14.00 - 15.00

19230320_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

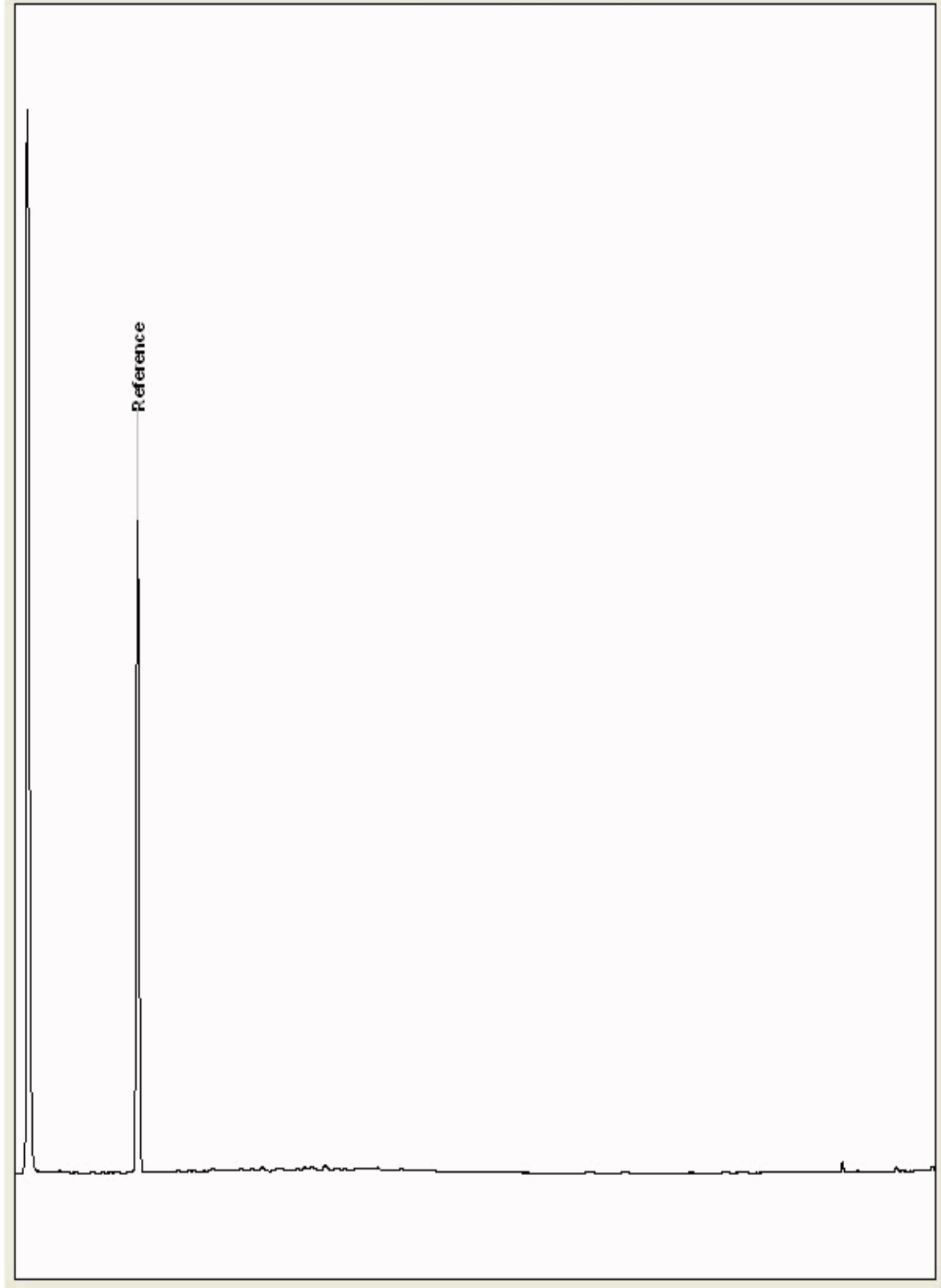
Chromatogram

Analysis: GRO by GC-FID (S)
19235099

Sample No :
Sample ID : BH229

19,235,099 **Depth :** 11.00 - 12.00

19235099_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

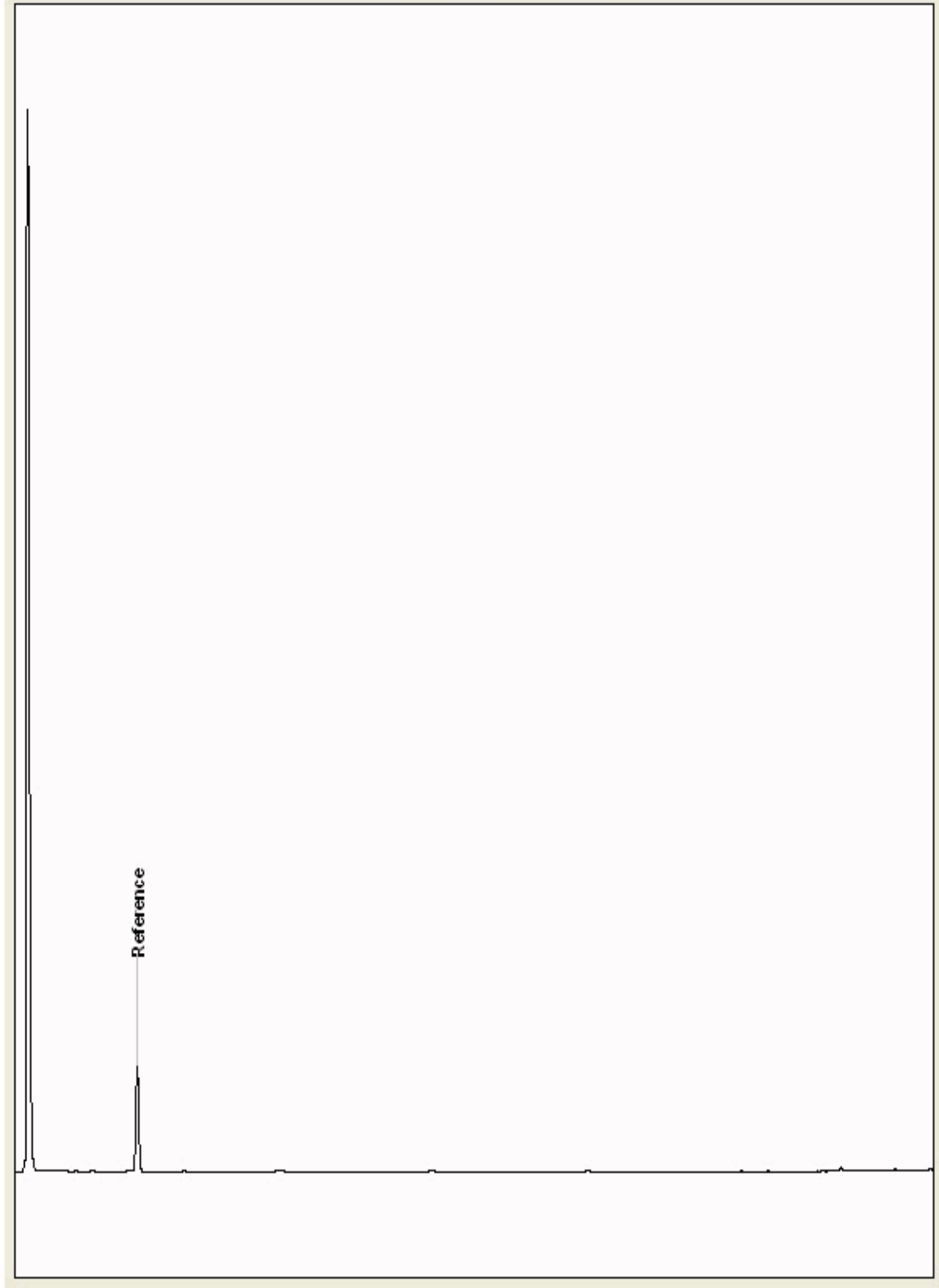
Chromatogram

Analysis: GRO by GC-FID (S)
19235103

Sample No :
Sample ID : BH228

19,235,103Depth : 13.00 - 14.00

19235103_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

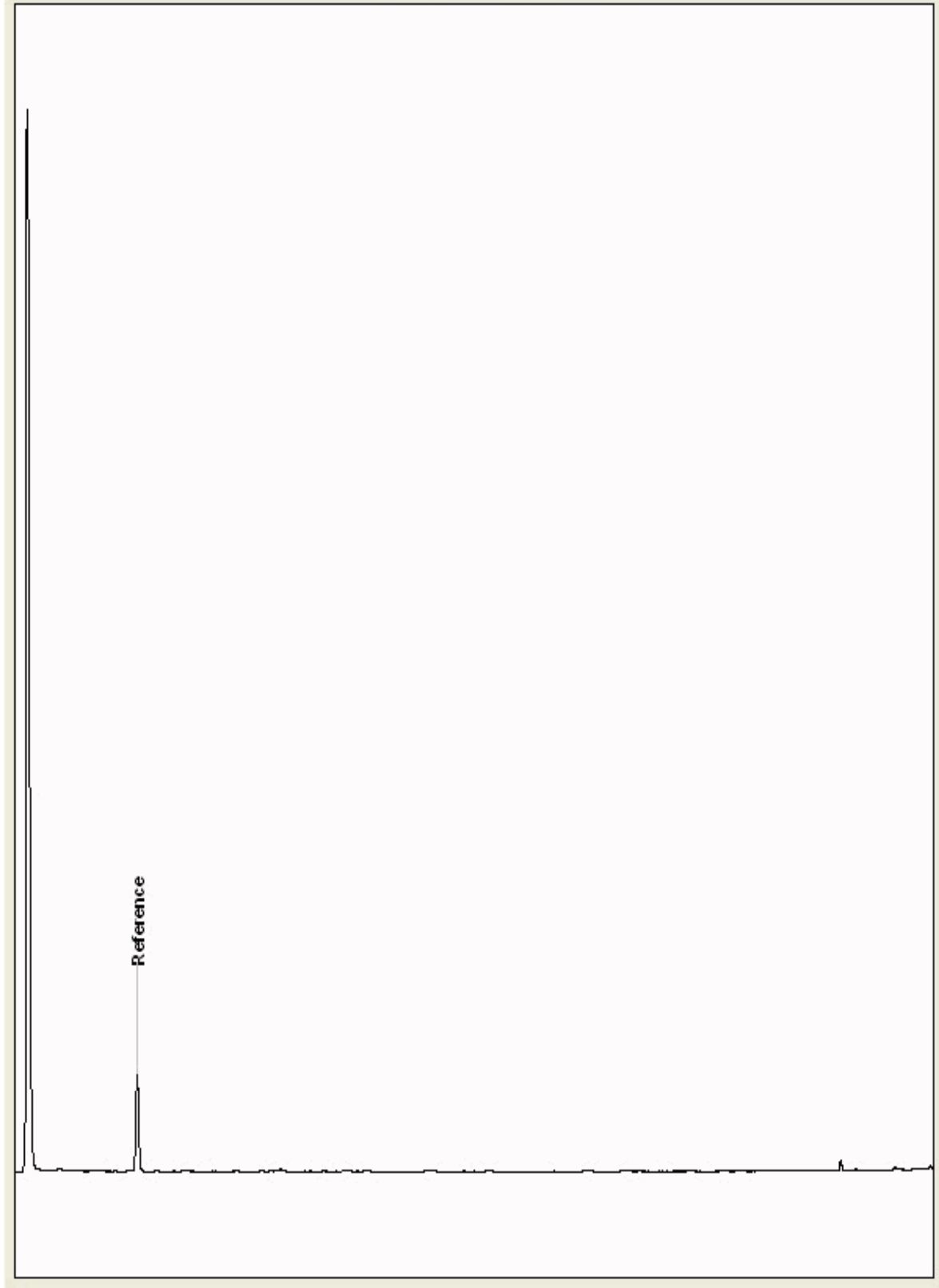
Chromatogram

Analysis: GRO by GC-FID (S)
19235110

Sample No :
Sample ID : BH228

19,235,110 Depth : 15.00 - 16.00

19235110_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

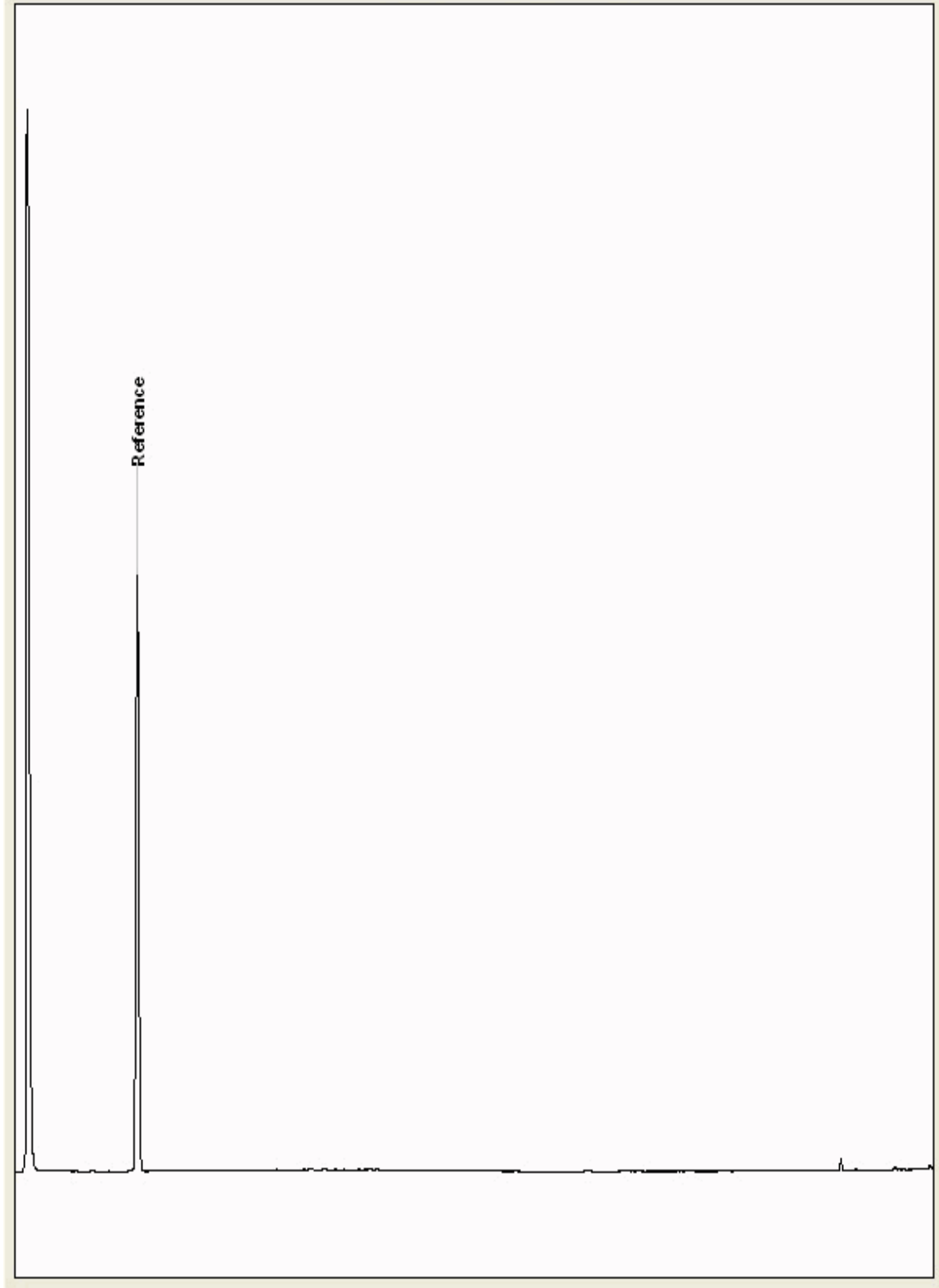
Chromatogram

Analysis: GRO by GC-FID (S)
19235120

Sample No :
Sample ID : BH229

19,235,120Depth : 12.00 - 13.00

19235120_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

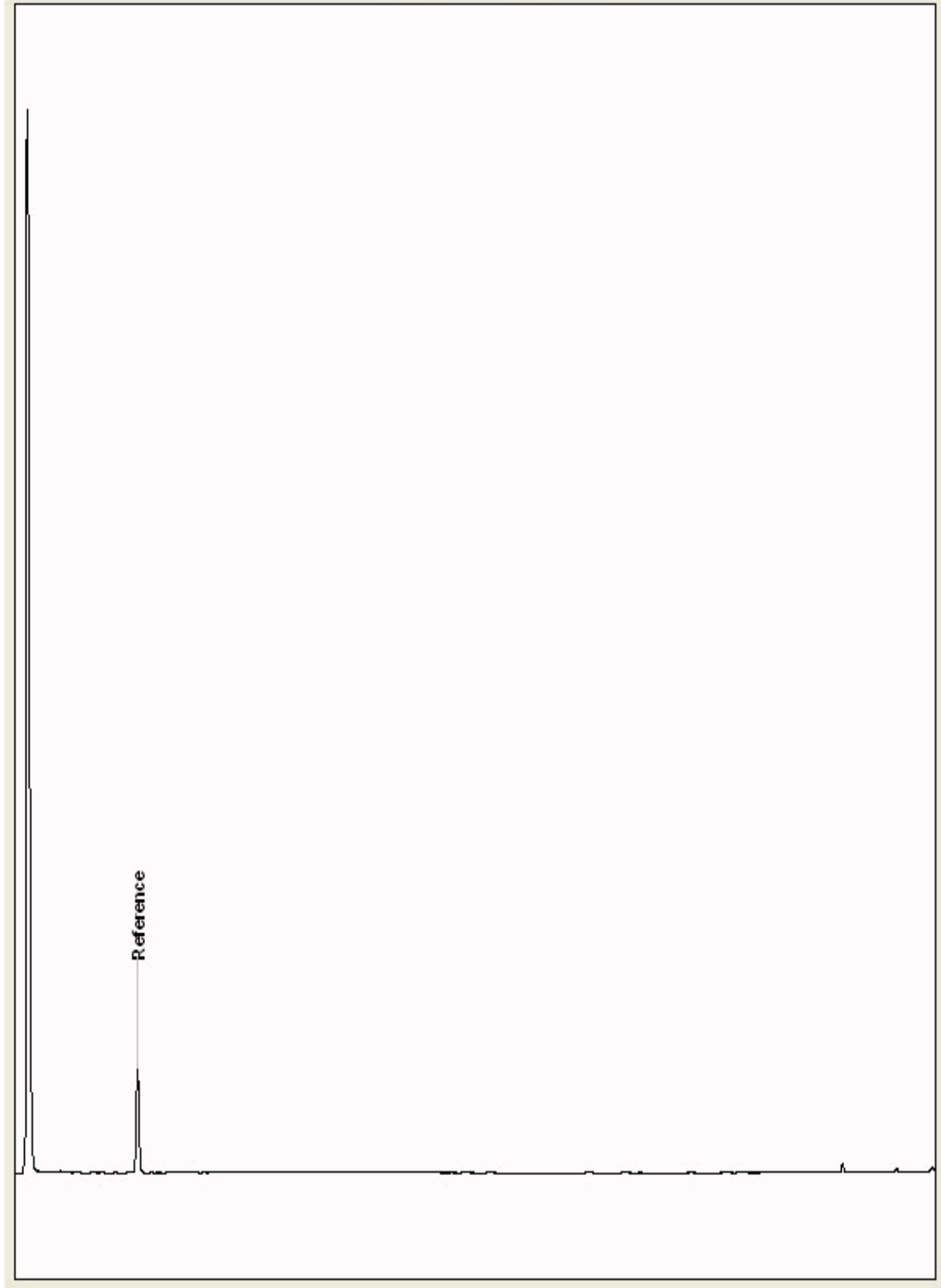
Chromatogram

Analysis: GRO by GC-FID (S)
19235136

Sample No :
Sample ID : BH229

19,235,136Depth : 15.00 - 16.00

19235136_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

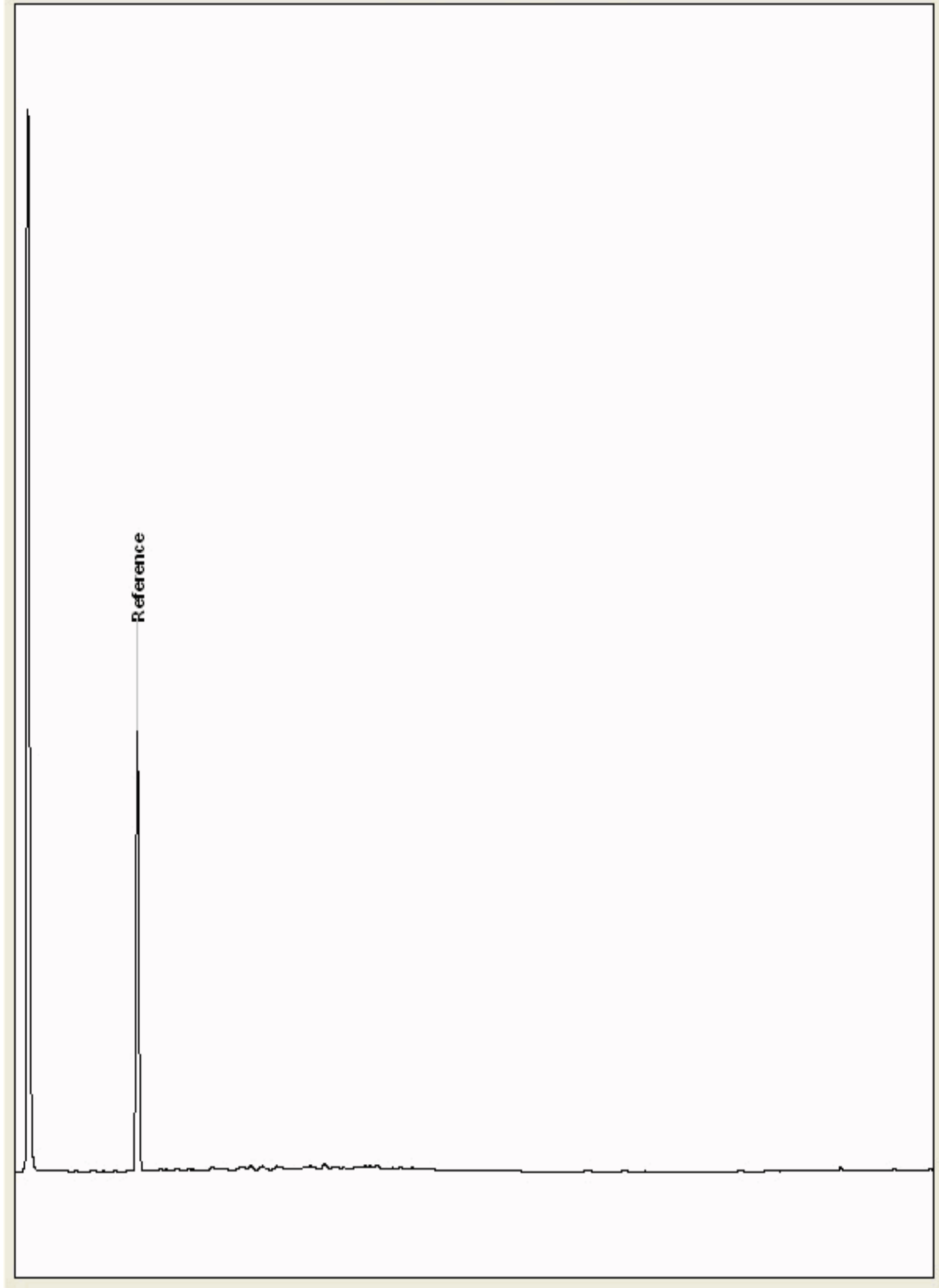
Chromatogram

Analysis: GRO by GC-FID (S)
19235240

Sample No :
Sample ID : BH227

19,235,240Depth :0.50 - 1.00

19235240_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

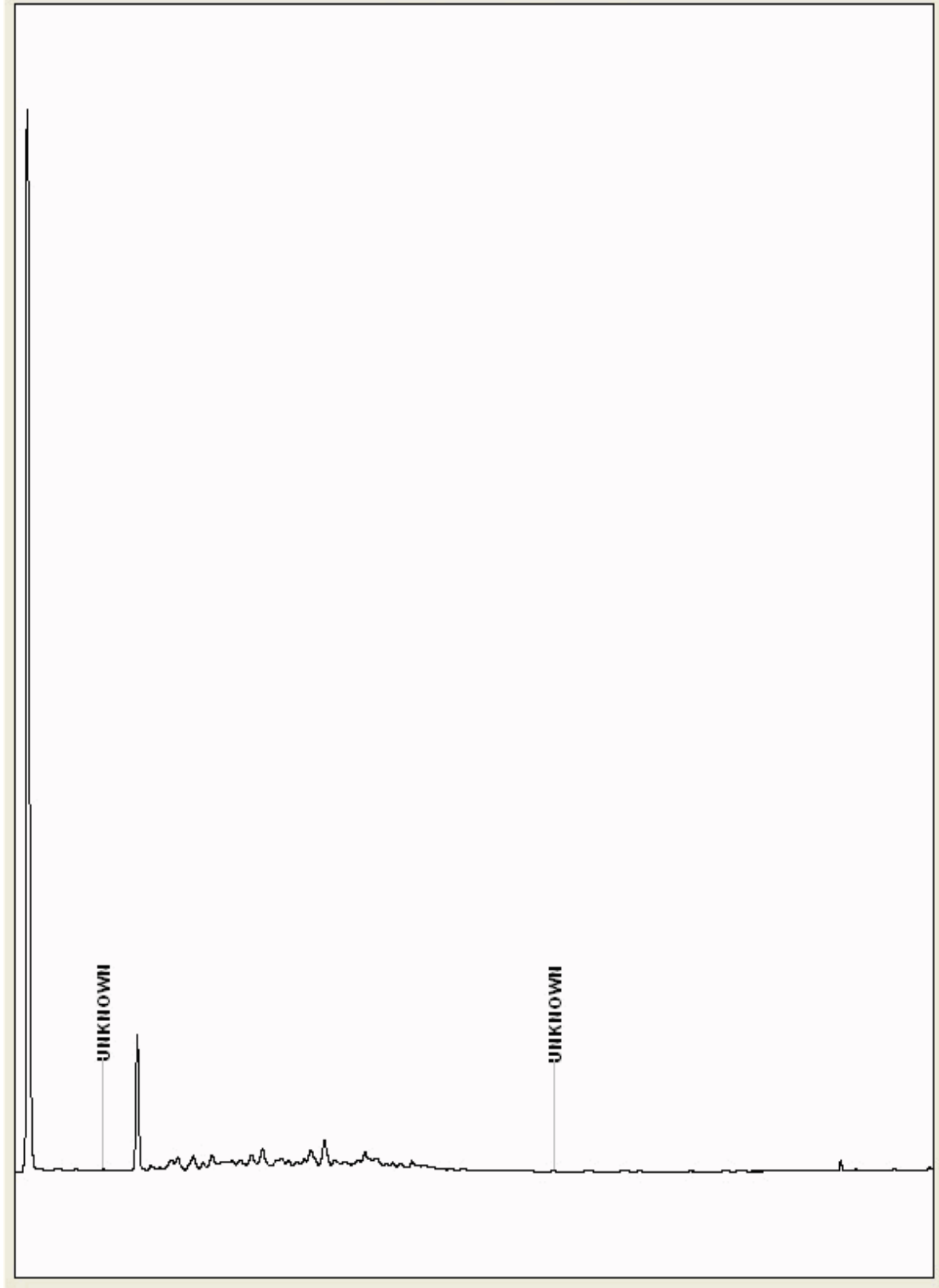
Chromatogram

Analysis: GRO by GC-FID (S)
19237369

Sample No :
Sample ID : BH226

19,237,369 Depth : 15.00 - 17.00

19237369_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

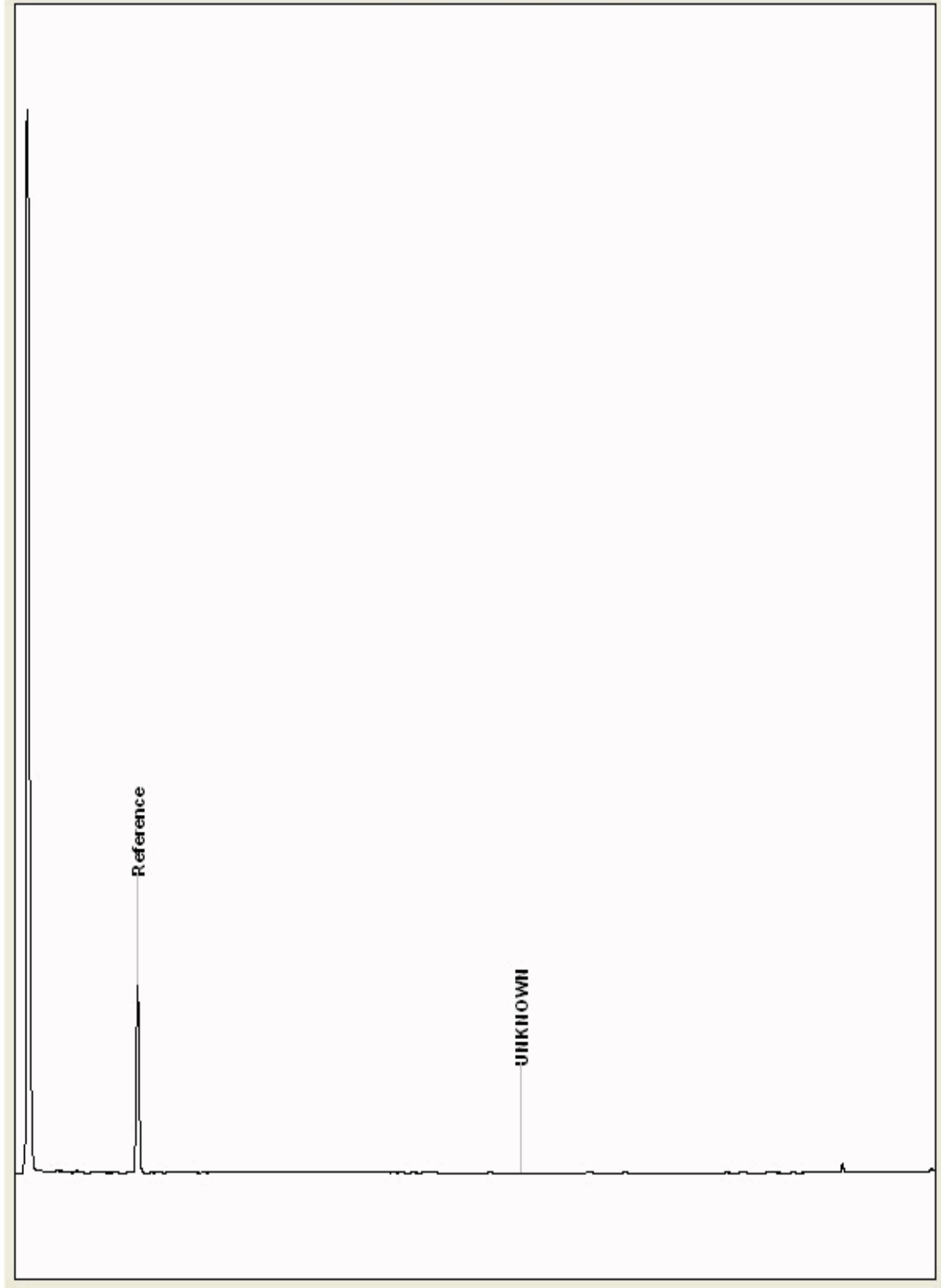
Chromatogram

Analysis: GRO by GC-FID (S)
19237441

Sample No :
Sample ID : BH227

19,237,441 Depth : 12.00 - 13.00

19237441_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

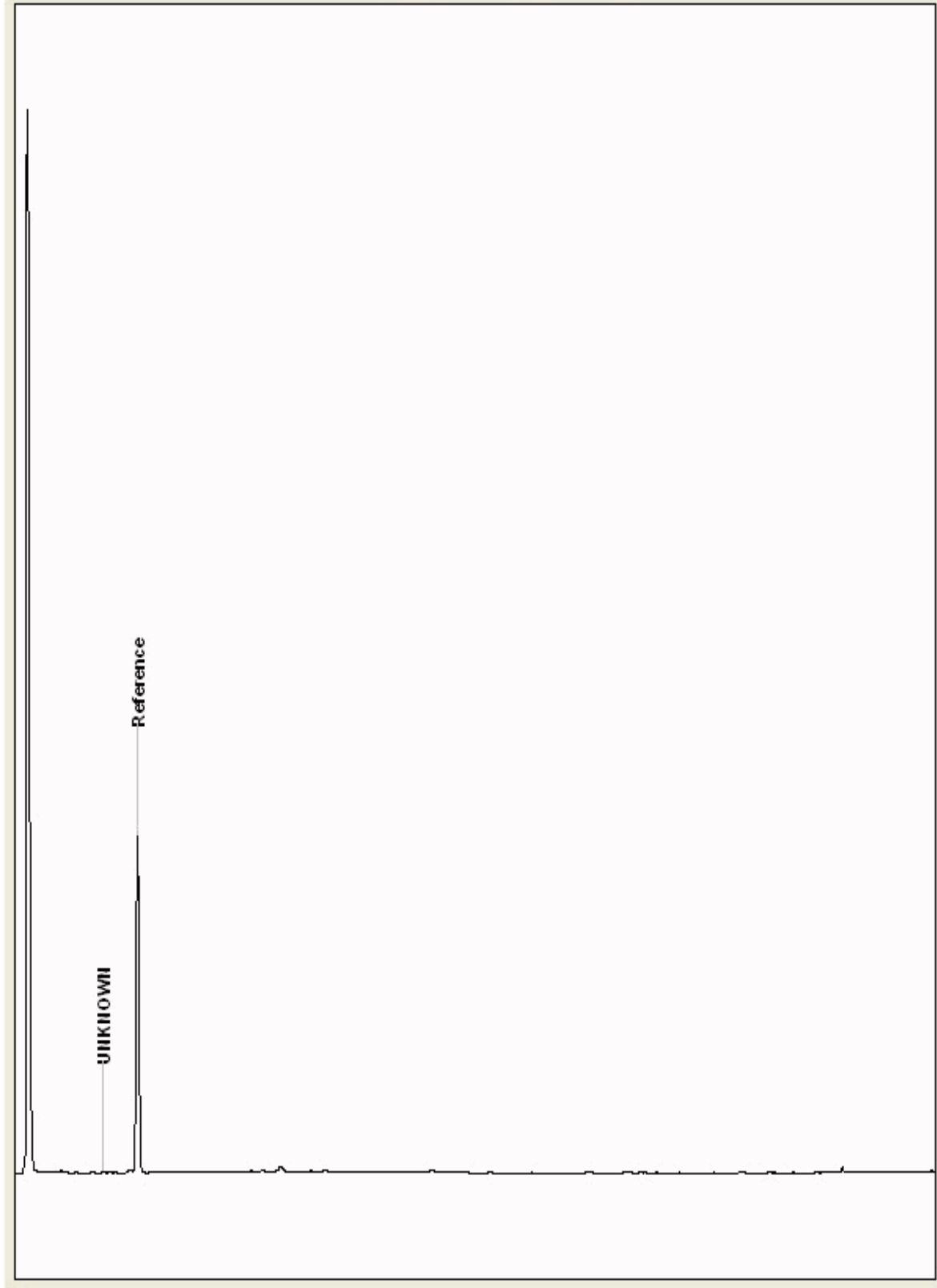
Chromatogram

Analysis: GRO by GC-FID (S)
19237478

Sample No :
Sample ID : BH228

19,237,478Depth :2.00 - 3.00

19237478_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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Deeside
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Website: www.alsenvironmental.co.uk

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: James Stretton

CERTIFICATE OF ANALYSIS

Date of report Generation: 06 February 2019
Customer: D_RSK_DUB
Sample Delivery Group (SDG): 190116-102
Your Reference: 602387
Location: City Block 9
Report No: 491397

This report has been revised and directly supersedes 490811 in its entirety.

We received 49 samples on Wednesday January 16, 2019 and 37 of these samples were scheduled for analysis which was completed on Wednesday February 06, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19125615	BH232		0.00 - 0.50	14/01/2019
19125616	BH232		0.50 - 1.00	14/01/2019
19125617	BH232		1.00 - 2.00	14/01/2019
19125625	BH232		10.00 - 11.00	14/01/2019
19125626	BH232		10.00 - 12.50	14/01/2019
19125627	BH232		12.50 - 13.00	14/01/2019
19125628	BH232		13.00 - 14.00	14/01/2019
19125629	BH232		14.00 - 15.00	14/01/2019
19125630	BH232		15.00 - 16.00	14/01/2019
19125631	BH232		16.00 - 17.00	14/01/2019
19125618	BH232		2.00 - 3.00	14/01/2019
19125619	BH232		3.00 - 4.00	14/01/2019
19125620	BH232		4.00 - 5.00	14/01/2019
19125621	BH232		5.00 - 6.00	14/01/2019
19125622	BH232		6.00 - 7.00	14/01/2019
19125623	BH232		7.00 - 8.00	14/01/2019
19125624	BH232		8.00 - 10.00	14/01/2019
19125632	BH233		0.00 - 0.50	11/01/2019
19125633	BH233		0.50 - 1.00	11/01/2019
19125634	BH233		1.00 - 2.00	11/01/2019
19125642	BH233		10.00 - 11.00	11/01/2019
19125644	BH233		11.00 - 12.50	11/01/2019
19125646	BH233		12.50 - 13.00	11/01/2019
19125647	BH233		13.00 - 14.00	11/01/2019
19125648	BH233		14.00 - 15.00	11/01/2019
19125649	BH233		15.00 - 16.00	11/01/2019
19125650	BH233		16.00 - 17.00	11/01/2019
19125635	BH233		2.00 - 3.00	11/01/2019
19125636	BH233		3.00 - 4.00	11/01/2019
19125637	BH233		4.00 - 5.00	11/01/2019
19125638	BH233		5.00 - 6.00	11/01/2019
19125639	BH233		6.00 - 8.00	11/01/2019
19125640	BH233		8.00 - 9.00	11/01/2019
19125641	BH233		9.50 - 10.00	11/01/2019
19125651	BH234		0.80 - 1.00	10/01/2019
19125652	BH234		1.20 - 2.00	10/01/2019
19125661	BH234		10.00 - 12.00	10/01/2019
19125662	BH234		12.00 - 13.00	10/01/2019
19125663	BH234		13.00 - 14.00	10/01/2019
19125664	BH234		14.00 - 15.00	10/01/2019
19125665	BH234		15.00 - 16.00	10/01/2019
19125666	BH234		16.00 - 17.00	10/01/2019
19125653	BH234		2.00 - 3.00	10/01/2019
19125654	BH234		3.00 - 4.00	10/01/2019
19125656	BH234		4.00 - 5.00	10/01/2019
19125657	BH234		5.00 - 6.00	10/01/2019
19125658	BH234		6.00 - 7.00	10/01/2019
19125659	BH234		7.00 - 8.00	10/01/2019
19125660	BH234		8.00 - 10.00	10/01/2019



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Maximum Sample/Coolbox Temperature (°C) : 7.0

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">X Test</div> <div style="display: flex; align-items: center;">N No Determination Possible</div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type											
		19125615	BH232		0.00 - 0.50	250g Amber Jar (ALE210) 1kg TUB	S										
		19125616	BH232		0.50 - 1.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S										
		19125617	BH232		1.00 - 2.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S										
		19125626	BH232		10.00 - 12.50	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S										
		19125627	BH232		12.50 - 13.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S										
		19125628	BH232		13.00 - 14.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S										
	19125630	BH232		15.00 - 16.00	250g Amber Jar (ALE210) 1kg TUB	S											
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	
Anions by Kone (w)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 1							X								
CEN Readings	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 37						X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type										
							19125615	19125616	19125617	19125626	19125627	19125628	19125630	19125615	19125616	19125617	19125626	19125627	19125628	19125630
Metals in solid samples by OES	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
PCBs by GCMS	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	19125632	19125633	19125634	19125644	19125646	19125648	19125650
							BH233	BH233	BH233	BH233	BH233	BH233	BH233
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 37		0.00 - 0.50	60g VOC (ALE215) 250g Amber Jar (ALE210)	S	X		X		X		X
Anions by Kone (w)	All	NDPs: 0 Tests: 37		0.50 - 1.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S		X		X		X	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 37		1.00 - 2.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S		X		X		X	
CEN Readings	All	NDPs: 0 Tests: 37		11.00 - 12.50	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S		X		X		X	
Coronene	All	NDPs: 0 Tests: 37		12.50 - 13.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S	X		X		X		X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 37		14.00 - 15.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S		X		X		X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 37		16.00 - 17.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S		X		X		X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 37				S	X		X		X		X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 37				S	X		X		X		X
Fluoride	All	NDPs: 0 Tests: 37				S		X		X		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 37				S		X		X		X	
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 37				S	X		X		X		X
Loss on Ignition in soils	All	NDPs: 0 Tests: 37				S	X		X		X		X
Mercury Dissolved	All	NDPs: 0 Tests: 37				S		X		X		X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 37				S	X		X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type								
							19125632	19125633	19125634	19125644	19125646	19125648	19125650	
Mineral Oil	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
PAH by GCMS	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
PCBs by GCMS	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
pH	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
Phenols by HPLC (S)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
Phenols by HPLC (W)	All	NDPs: 0 Tests: 37						X	X	X	X	X	X	
Sample description	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
Total Dissolved Solids	All	NDPs: 0 Tests: 37						X	X	X	X	X	X	
Total Organic Carbon	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	
VOC MS (S)	All	NDPs: 0 Tests: 37					X	X	X	X	X	X	X	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	491397
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	490811

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container		Sample Type
					60g VOC (ALE215)	1kg TUB (ALE210)	
	19125652	BH234		1.20 - 2.00	60g VOC (ALE215)	1kg TUB (ALE210)	S
	19125662	BH234		12.00 - 13.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
	19125663	BH234		13.00 - 14.00	60g VOC (ALE215)	1kg TUB (ALE210)	S
	19125665	BH234		15.00 - 16.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
	19125666	BH234		16.00 - 17.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
	19125653	BH234		2.00 - 3.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
	19125654	BH234		3.00 - 4.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 37					
Anions by Kone (w)	All	NDPs: 0 Tests: 37					
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 37					
CEN Readings	All	NDPs: 0 Tests: 37					
Coronene	All	NDPs: 0 Tests: 37					
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 37					
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 37					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 37					
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 37					
Fluoride	All	NDPs: 0 Tests: 37					
GRO by GC-FID (S)	All	NDPs: 0 Tests: 37					
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 37					
Loss on Ignition in soils	All	NDPs: 0 Tests: 37					
Mercury Dissolved	All	NDPs: 0 Tests: 37					
Metals in solid samples by OES	All	NDPs: 0 Tests: 37					



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
19125615	BH232	0.00 - 0.50	Black	Gravel	Stones	None
19125616	BH232	0.50 - 1.00	Black	Silt Loam	Vegetation	None
19125617	BH232	1.00 - 2.00	Black	Silt Loam	Vegetation	None
19125618	BH232	2.00 - 3.00	Black	Silt Loam	Vegetation	None
19125619	BH232	3.00 - 4.00	Black	Silt Loam	Vegetation	None
19125620	BH232	4.00 - 5.00	Dark Brown	Sandy Clay Loam	Vegetation	None
19125621	BH232	5.00 - 6.00	Dark Brown	Sandy Loam	Stones	Vegetation
19125623	BH232	7.00 - 8.00	Dark Brown	Sand	Vegetation	Stones
19125624	BH232	8.00 - 10.00	Dark Brown	Sandy Loam	Stones	Vegetation
19125626	BH232	10.00 - 12.50	Dark Brown	Stone/Soil	Stones	Vegetation
19125627	BH232	12.50 - 13.00	Dark Brown	Loamy Sand	Stones	None
19125628	BH232	13.00 - 14.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125630	BH232	15.00 - 16.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125632	BH233	0.00 - 0.50	Dark Brown	Sandy Loam	Vegetation	Stones
19125633	BH233	0.50 - 1.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125634	BH233	1.00 - 2.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125635	BH233	2.00 - 3.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125636	BH233	3.00 - 4.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125638	BH233	5.00 - 6.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125640	BH233	8.00 - 9.00	Dark Brown	Gravel	Vegetation	Stones
19125641	BH233	9.50 - 10.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125644	BH233	11.00 - 12.50	Dark Brown	Sand	Vegetation	Stones
19125646	BH233	12.50 - 13.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125648	BH233	14.00 - 15.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125650	BH233	16.00 - 17.00	Dark Brown	Sandy Loam	Stones	Vegetation
19125651	BH234	0.80 - 1.00	Grey	Sand	Vegetation	Stones
19125652	BH234	1.20 - 2.00	Dark Brown	Sand	Vegetation	Stones
19125653	BH234	2.00 - 3.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125654	BH234	3.00 - 4.00	Dark Brown	Loamy Sand	Vegetation	Stones
19125656	BH234	4.00 - 5.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125657	BH234	5.00 - 6.00	Dark Brown	Sandy Loam	Stones	Vegetation
19125659	BH234	7.00 - 8.00	Dark Brown	Sand	Vegetation	Stones
19125660	BH234	8.00 - 10.00	Dark Brown	Sand	Vegetation	Stones
19125662	BH234	12.00 - 13.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125663	BH234	13.00 - 14.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125665	BH234	15.00 - 16.00	Dark Brown	Sandy Loam	Vegetation	Stones
19125666	BH234	16.00 - 17.00	Dark Brown	Sandy Loam	Vegetation	Stones



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Results Legend		Customer Sample Ref.	BH232	BH232	BH232	BH232	BH232	BH232
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 12.50	12.50 - 13.00	13.00 - 14.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed		16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
1-5&*\$@	Sample deviation (see appendix)		190116-102	190116-102	190116-102	190116-102	190116-102	190116-102
			19125615	19125616	19125617	19125626	19125627	19125628
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	7.6	30	33	12	13	12
Loss on ignition	<0.7 %	TM018	4.86	9.82	2.78	1.5	2.2	2.04
Mineral Oil Surrogate % recovery**	%	TM061	80.3	84.9	77.3	81.9	82.7	80.2
Mineral oil >C10-C40	<1 mg/kg	TM061	3310	1140	807	11.8	35.9	18
Phenol	<0.01 mg/kg	TM062 (S)	1.34	<0.5	<1	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	3.62	2.09	<1	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	2.13	31.3	50.5	0.103	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.2	13.7	20	0.0228	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	0.974	148	119	0.103	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	8.07	195	190	0.228	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.29	4.47	3.32	0.362	0.749	0.727
pH	1 pH Units	TM133	11.2	7.88	7.76	9.36	8.56	8.49
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<15	<15	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<15	<15	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<15	<15	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<15	<15	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<15	<15	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<15	<15	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<15	<15	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<105	<105	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11	22	15.6	6.34	18.4	9.25
Cadmium	<0.02 mg/kg	TM181	1.06	0.908	0.835	1.01	1.7	1.92
Chromium	<0.9 mg/kg	TM181	15.6	29.6	19.1	6.66	9.06	11
Copper	<1.4 mg/kg	TM181	43.4	326	307	12	23.7	24.7
Lead	<0.7 mg/kg	TM181	58.6	222	249	8.43	11.1	12.1
Mercury	<0.14 mg/kg	TM181	1.91	1.77	1.68	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	17.3	25.3	23.2	17.9	30.7	32.2
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	2.08	2.54
Zinc	<1.9 mg/kg	TM181	174	172	118	49.6	81.9	115
ANC @ pH 4	<0.03 mol/kg	TM182	0.2	0.328	0.517	0.348	0.921	1.08
ANC @ pH 6	<0.03 mol/kg	TM182	0.132	0.0583	0.0765	0.0669	0.213	0.242



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Results Legend		Customer Sample Ref.	BH232	BH232	BH232	BH232	BH232	BH232
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	7.00 - 8.00
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
diss.filt	Dissolved / filtered sample.		14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed		16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
1-5&*\$@	Sample deviation (see appendix)		190116-102	190116-102	190116-102	190116-102	190116-102	190116-102
			19125630	19125618	19125619	19125620	19125621	19125623
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	10	27	28	25	8.9	6.5
Loss on ignition	<0.7 %	TM018	1.74	5.18	5.75	5.07	1.4	1.17
Mineral Oil Surrogate % recovery**	%	TM061	79.1	73.5	72.3	82.5	80.5	83
Mineral oil >C10-C40	<1 mg/kg	TM061	22.6	174	67.2	23	11.9	7.83
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.1	<0.02	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	0.0685	<0.1	<0.02	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	1.85	0.393	0.745	0.0439	0.0321
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	0.589	<0.1	0.16	0.011	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	2.52	0.65	2.17	0.0659	0.0214
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	5.03	1.04	3.07	0.121	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.678	2.35	1.83	2.04	0.714	0.414
pH	1 pH Units	TM133	8.43	8.16	8.58	8.79	7.96	9.41
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	8.12	13.9	11.1	11.8	18	6.56
Cadmium	<0.02 mg/kg	TM181	1.44	0.781	0.683	0.655	0.605	0.665
Chromium	<0.9 mg/kg	TM181	9.07	17.2	15.4	13.7	7.16	6.26
Copper	<1.4 mg/kg	TM181	24.8	51.6	35.5	44.8	45.1	38.2
Lead	<0.7 mg/kg	TM181	10.3	91	61.6	75.2	32.8	6.75
Mercury	<0.14 mg/kg	TM181	<0.14	0.671	0.376	0.484	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	27.6	23.5	21.1	18.7	15.4	15.4
Selenium	<1 mg/kg	TM181	1.94	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	64.7	90.9	73.4	67.3	258	54.2
ANC @ pH 4	<0.03 mol/kg	TM182	1.28	0.482	0.624	0.343	0.439	0.281
ANC @ pH 6	<0.03 mol/kg	TM182	0.21	0.0703	0.0887	0.0814	0.0803	0.104



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Results Legend		Customer Sample Ref.	BH232	BH233	BH233	BH233	BH233	BH233	BH233
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received Date Received SDG Ref Lab Sample No.(s) AGS Reference							
M	mCERTS accredited.		8.00 - 10.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	11.00 - 12.50	12.50 - 13.00	
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
diss.filt	Dissolved / filtered sample.		14/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	
tot.unfilt	Total / unfiltered sample.		16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	
-	Subcontracted test.		190116-102	190116-102	190116-102	190116-102	190116-102	190116-102	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		19125624	19125632	19125633	19125634	19125644	19125646	
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Moisture Content Ratio (% of as received sample)	%	PM024	12	18	21	26	13	12	
Loss on ignition	<0.7 %	TM018	0.799	2.48	<0.7	6.96	1.47	2.13	
Mineral Oil Surrogate % recovery**	%	TM061	76.7	82.8	86	81.1	80.2	86	
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	22	4.67	5.67	6.11	3.12	
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	
Organic Carbon, Total	<0.2 %	TM132	0.279	1.88	2.35	1.89	0.359	0.649	
pH	1 pH Units	TM133	9.47	10.1	7.64	8.2	9.33	8.78	
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21	
Arsenic	<0.6 mg/kg	TM181	4.16	18.5	14.6	11.1	5.44	8.72	
Cadmium	<0.02 mg/kg	TM181	0.693	1.75	0.97	0.735	1.08	1.37	
Chromium	<0.9 mg/kg	TM181	6.96	18.4	15.1	14.4	7.33	7.83	
Copper	<1.4 mg/kg	TM181	8.04	258	47.5	33.9	9.47	23.3	
Lead	<0.7 mg/kg	TM181	3.93	259	101	72.3	6.4	11.3	
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	0.312	0.349	<0.14	<0.14	
Nickel	<0.2 mg/kg	TM181	14.8	24.1	22.7	19.8	18.4	29.7	
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	1.91	2.07	
Zinc	<1.9 mg/kg	TM181	41.4	365	133	74	57.2	58.7	
ANC @ pH 4	<0.03 mol/kg	TM182	0.6	0.132	0.349	0.29	0.179	1.48	
ANC @ pH 6	<0.03 mol/kg	TM182	0.17	0.063	0.0532	0.0573	0.0817	0.246	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Results Legend		Customer Sample Ref.	BH233	BH233	BH233	BH233	BH233	BH233
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Moisture Content Ratio (% of as received sample)	%	PM024	11	5.5	25	21	12	7.7
Loss on ignition	<0.7 %	TM018	4.24	0.784	5.79	3.81	2.51	<0.7
Mineral Oil Surrogate % recovery**	%	TM061	80.3	78.9	83.9	81.2	75.3	78.9
Mineral oil >C10-C40	<1 mg/kg	TM061	60.6	27.3	36.2	33.2	18.4	13.8
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.67	0.689	2.34	1.37	1.34	0.222
pH	1 pH Units	TM133	8.22	8.03	8.56	8.42	8.11	9.21
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	9.79	8.29	12	9.6	10.2	4.91
Cadmium	<0.02 mg/kg	TM181	1.75	2.72	0.783	0.738	0.529	0.555
Chromium	<0.9 mg/kg	TM181	10.5	10.2	15.9	13.4	11.1	6.2
Copper	<1.4 mg/kg	TM181	28.5	27.6	65.7	38.8	23.5	8.5
Lead	<0.7 mg/kg	TM181	14.4	53.9	108	58.8	42.5	21.3
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	0.731	0.449	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	32	26.6	21.4	18.3	16.3	15.3
Selenium	<1 mg/kg	TM181	2.55	1.6	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	76.8	109	83	68.8	53.1	57.3
ANC @ pH 4	<0.03 mol/kg	TM182	1.39	1.14	0.485	0.673	0.274	0.105
ANC @ pH 6	<0.03 mol/kg	TM182	0.135	0.0951	0.0824	0.134	0.0961	0.0714



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Results Legend		Customer Sample Ref.	BH233	BH234	BH234	BH234	BH234	BH234
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	8	3.5	11	10	8.5	7.6
Loss on ignition	<0.7 %	TM018	1.17	2.31	2.22	0.995	1.92	1.59
Mineral Oil Surrogate % recovery**	%	TM061	80.4	77.2	85	83.8	82.4	82
Mineral oil >C10-C40	<1 mg/kg	TM061	3.97	96.1	20.4	71.4	28.1	55.4
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	0.0104	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	0.0207	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.246	0.339	1.3	0.632	0.863	0.759
pH	1 pH Units	TM133	9.23	10.9	9.5	8.59	8.16	8.55
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	6.32	4.56	6.54	8.97	10.3	11.5
Cadmium	<0.02 mg/kg	TM181	0.794	0.694	0.404	1.35	1.7	1.73
Chromium	<0.9 mg/kg	TM181	5.93	9.69	7.68	8.3	10.6	10.6
Copper	<1.4 mg/kg	TM181	8.01	10.6	15.4	20.7	29.4	30
Lead	<0.7 mg/kg	TM181	3.47	7.51	23.1	9.33	12.8	12.8
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	13.7	13.5	10.1	26	33.8	36
Selenium	<1 mg/kg	TM181	1.19	1.17	<1	1.96	2.73	3.11
Zinc	<1.9 mg/kg	TM181	53.5	38	47.7	59.3	70.5	81
ANC @ pH 4	<0.03 mol/kg	TM182	0.22	0.398	0.198	0.881	0.995	1.75
ANC @ pH 6	<0.03 mol/kg	TM182	0.101	0.178	0.0606	0.216	0.128	0.142



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Results Legend		Customer Sample Ref.	BH234	BH234	BH234	BH234	BH234	BH234
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	7.00 - 8.00
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
diss.filt	Dissolved / filtered sample.		10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
tot.unfilt	Total / unfiltered sample.		16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
tot.unfilt	Subcontracted test.		190116-102	190116-102	190116-102	190116-102	190116-102	190116-102
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		19125666	19125653	19125654	19125656	19125657	19125659
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Moisture Content Ratio (% of as received sample)	%	PM024	4.2	19	25	22	17	11
Loss on ignition	<0.7 %	TM018	<0.7	<0.7	1.9	4.66	2.43	0.965
Mineral Oil Surrogate % recovery**	%	TM061	78.6	86	77.6	84	79.4	80.9
Mineral oil >C10-C40	<1 mg/kg	TM061	51.2	60.1	18.2	12.6	122	32.1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	0.0134	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	0.0134	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.73	0.345	1.15	2.14	0.862	0.296
pH	1 pH Units	TM133	8.48	8.89	7.76	8.1	7.67	8.85
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.38	5.67	6.69	9.65	9.05	9.05
Cadmium	<0.02 mg/kg	TM181	1.5	0.2	0.359	0.499	0.422	0.667
Chromium	<0.9 mg/kg	TM181	9.01	7.51	9.38	15.6	9.36	7.26
Copper	<1.4 mg/kg	TM181	19.8	8.26	23.2	32.2	20.6	10.9
Lead	<0.7 mg/kg	TM181	15.9	7.13	50.4	75.9	41.7	8.37
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	0.319	0.372	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	24.9	7.97	11.4	17.9	12.8	16.4
Selenium	<1 mg/kg	TM181	1.98	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	64.3	21.7	38.7	60	46.2	55.7
ANC @ pH 4	<0.03 mol/kg	TM182	0.747	0.147	0.253	0.302	0.0997	0.353
ANC @ pH 6	<0.03 mol/kg	TM182	0.202	0.0536	0.065	0.0612	0.0491	0.112



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Results Legend		Customer Sample Ref.				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-5&*\$@ Sample deviation (see appendix)		BH234				
		Depth (m)	8.00 - 10.00			
		Sample Type	Soil/Solid (S)			
		Date Sampled	10/01/2019			
		Sampled Time	.			
		Date Received	16/01/2019			
		SDG Ref	190116-102			
		Lab Sample No.(s)	19125660			
		AGS Reference				
Component	LOD/Units	Method				
Moisture Content Ratio (% of as received sample)	%	PM024	9			
Loss on ignition	<0.7 %	TM018	2.45	M		
Mineral Oil Surrogate % recovery**	%	TM061	81.7			
Mineral oil >C10-C40	<1 mg/kg	TM061	25.7			
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	M		
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	M		
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	M		
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	M		
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	M		
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	M		
Organic Carbon, Total	<0.2 %	TM132	0.368	M		
pH	1 pH Units	TM133	9.16	M		
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	#		
PCB congener 28	<3 µg/kg	TM168	<3	M		
PCB congener 52	<3 µg/kg	TM168	<3	M		
PCB congener 101	<3 µg/kg	TM168	<3	M		
PCB congener 118	<3 µg/kg	TM168	<3	M		
PCB congener 138	<3 µg/kg	TM168	<3	M		
PCB congener 153	<3 µg/kg	TM168	<3	M		
PCB congener 180	<3 µg/kg	TM168	<3	M		
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21			
Arsenic	<0.6 mg/kg	TM181	5.42	M		
Cadmium	<0.02 mg/kg	TM181	0.975	M		
Chromium	<0.9 mg/kg	TM181	6.71	M		
Copper	<1.4 mg/kg	TM181	9.76	M		
Lead	<0.7 mg/kg	TM181	5.53	M		
Mercury	<0.14 mg/kg	TM181	<0.14	M		
Nickel	<0.2 mg/kg	TM181	13.8	M		
Selenium	<1 mg/kg	TM181	<1	#		
Zinc	<1.9 mg/kg	TM181	70.5	M		
ANC @ pH 4	<0.03 mol/kg	TM182	0.204			
ANC @ pH 6	<0.03 mol/kg	TM182	0.091			



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

PAH by GCMS

Results Legend			Customer Sample Ref.	BH232	BH232	BH232	BH232	BH232	BH232
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 12.50	12.50 - 13.00	13.00 - 14.00
			Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019	14/01/2019
			Sampled Time						
			Date Received	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
			SDG Ref	190116-102	190116-102	190116-102	190116-102	190116-102	190116-102
			Lab Sample No.(s)	19125615	19125616	19125617	19125626	19125627	19125628
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98	111	225	88.7	108	88.5
Acenaphthene-d10 % recovery**	%	TM218		100	108	95.3	87.3	113	85.2
Phenanthrene-d10 % recovery**	%	TM218		99.5	96.6	98.8	87.7	105	85.6
Chrysene-d12 % recovery**	%	TM218		92.3	97.2	97.3	105	95.8	86.7
Perylene-d12 % recovery**	%	TM218		85.8	92.4	95.5	115	89.7	82.4
Naphthalene	<9 µg/kg	TM218		35100	187000	26700	437	incomplete	53.2
Acenaphthylene	<12 µg/kg	TM218		5680	5220	2530	399	incomplete	<12
Acenaphthene	<8 µg/kg	TM218		150000	162000	77000	1290	incomplete	59.3
Fluorene	<10 µg/kg	TM218		123000	120000	65500	1100	incomplete	44
Phenanthrene	<15 µg/kg	TM218		308000	271000	159000	2910	incomplete	89.5
Anthracene	<16 µg/kg	TM218		513000	171000	234000	3720	incomplete	46.6
Fluoranthene	<17 µg/kg	TM218		163000	110000	71800	1580	incomplete	42.1
Pyrene	<15 µg/kg	TM218		108000	74400	47000	1050	incomplete	27.2
Benz(a)anthracene	<14 µg/kg	TM218		20300	15000	9700	219	<14	<14
Chrysene	<10 µg/kg	TM218		16800	11800	8210	180	<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218		10700	7010	4430	124	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218		4320	3470	2050	46.8	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218		8700	5970	4370	96.4	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		2650	2290	1340	33.8	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<575	421	<575	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218		2760	2000	1490	35.1	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1470000	1150000	715000	13200	342	362



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

PAH by GCMS

Results Legend			Customer Sample Ref.	BH232	BH232	BH232	BH232	BH232	BH232
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Naphthalene-d8 % recovery**	%	TM218	15.00 - 16.00	88.5	88.5	82.3	88.6	88.6	90.9
Acenaphthene-d10 % recovery**	%	TM218	2.00 - 3.00	83.4	82.3	87.6	90	88.5	86.9
Phenanthrene-d10 % recovery**	%	TM218	3.00 - 4.00	84.9	94.3	97	90.3	89	89.9
Chrysene-d12 % recovery**	%	TM218	4.00 - 5.00	89	92	94.7	93.1	99.4	98.4
Perylene-d12 % recovery**	%	TM218	5.00 - 6.00	80.6	86.8	84.1	95.2	96.9	96.5
Naphthalene	<9 µg/kg	TM218	7.00 - 8.00	142	6030	4470	2180	142	35.6
Acenaphthylene	<12 µg/kg	TM218	14/01/2019	<12	524	195	68.4	13.7	<12
Acenaphthene	<8 µg/kg	TM218	14/01/2019	129	20700	9500	4330	385	44.4
Fluorene	<10 µg/kg	TM218	16/01/2019	79.9	16000	7990	3520	176	36.2
Phenanthrene	<15 µg/kg	TM218	16/01/2019	220	44900	22500	9360	629	84
Anthracene	<16 µg/kg	TM218	190116-102	102	13900	5360	2010	304	56.9
Fluoranthene	<17 µg/kg	TM218	19125630	115	14200	7320	2860	608	101
Pyrene	<15 µg/kg	TM218	19125619	78.2	9230	4800	1880	406	64.2
Benz(a)anthracene	<14 µg/kg	TM218	19125621	17.7	1740	1070	403	91.5	16.2
Chrysene	<10 µg/kg	TM218	19125623	23.9	1490	861	344	89.2	17
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15	544	328	191	52.8	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14	<350	197	93.3	19.8	<14
Benzo(a)pyrene	<15 µg/kg	TM218		<15	672	399	161	32.1	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18	<450	116	64.8	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23	<575	37.5	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24	<600	123	56	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		908	130000	65200	27500	2950	455



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

PAH by GCMS

Results Legend			Customer Sample Ref.	BH232	BH233	BH233	BH233	BH233	BH233
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	8.00 - 10.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	11.00 - 12.50	12.50 - 13.00
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	14/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
			Sampled Time						
			Date Received	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
			SDG Ref	190116-102	190116-102	190116-102	190116-102	190116-102	190116-102
			Lab Sample No.(s)	19125624	19125632	19125633	19125634	19125644	19125646
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		86.2	86.8	87.1	90.3	92	88.9
Acenaphthene-d10 % recovery**	%	TM218		86.9	86.8	88.7	87.1	82.4	89.6
Phenanthrene-d10 % recovery**	%	TM218		86.7	87.5	90.7	84.8	86.3	87.3
Chrysene-d12 % recovery**	%	TM218		89.9	107	95.5	100	94.4	90.7
Perylene-d12 % recovery**	%	TM218		99	116	97.4	95.3	86	98.1
Naphthalene	<9 µg/kg	TM218		<9	89.1	43.6	74.3	<9	<9
Acenaphthylene	<12 µg/kg	TM218		<12	32.4	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218		<8	374	100	37.9	<8	<8
Fluorene	<10 µg/kg	TM218		<10	289	84.2	69.3	<10	<10
Phenanthrene	<15 µg/kg	TM218		17	2190	533	191	<15	<15
Anthracene	<16 µg/kg	TM218		<16	547	127	88	<16	<16
Fluoranthene	<17 µg/kg	TM218		<17	2470	586	306	<17	<17
Pyrene	<15 µg/kg	TM218		<15	2210	497	225	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218		<14	1110	238	126	<14	<14
Chrysene	<10 µg/kg	TM218		<10	1040	191	113	<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15	1160	187	121	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14	451	75.8	41.7	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218		<15	1290	225	82.6	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18	694	127	36.7	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23	166	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24	877	126	37.1	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	15000	3140	1550	<118	<118



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

PAH by GCMS

Results Legend			Customer Sample Ref.	BH233	BH233	BH233	BH233	BH233	BH233
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Naphthalene-d8 % recovery**	%	TM218	14.00 - 15.00	83.2	87.9	89.1	90.1	83.2	87.9
Acenaphthene-d10 % recovery**	%	TM218	16.00 - 17.00	85.3	87	87.8	89.7	87	86.6
Phenanthrene-d10 % recovery**	%	TM218	2.00 - 3.00	87.4	85.5	86.3	86.3	96.4	85.8
Chrysene-d12 % recovery**	%	TM218	3.00 - 4.00	87.4	95.6	102	87.9	95.2	80.4
Perylene-d12 % recovery**	%	TM218	5.00 - 6.00	80.5	102	114	84.1	86.9	78.4
Naphthalene	<9 µg/kg	TM218	8.00 - 9.00	<9	10.9	96.1	270	91.7	<9
Acenaphthylene	<12 µg/kg	TM218	11/01/2019	<12	<12	<12	22.3	<12	<12
Acenaphthene	<8 µg/kg	TM218	11/01/2019	<8	<8	36.1	70.5	68.7	<8
Fluorene	<10 µg/kg	TM218	16/01/2019	<10	12.3	78.2	165	91.7	<10
Phenanthrene	<15 µg/kg	TM218	16/01/2019	31.7	43.9	327	521	424	<15
Anthracene	<16 µg/kg	TM218	190116-102	<16	<16	142	175	148	<16
Fluoranthene	<17 µg/kg	TM218	19125648	<17	22.8	390	526	361	<17
Pyrene	<15 µg/kg	TM218	19125650	<15	20.9	295	384	281	<15
Benz(a)anthracene	<14 µg/kg	TM218	19125635	<14	<14	238	222	154	<14
Chrysene	<10 µg/kg	TM218	19125636	<10	13.3	188	195	126	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15	15.9	185	203	88.3	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14	<14	86.3	89.4	53.6	<14
Benzo(a)pyrene	<15 µg/kg	TM218		<15	<15	185	146	113	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18	<18	85.7	64.7	47.8	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24	<24	82.7	71.6	55.3	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	140	2420	3130	2100	<118



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

PAH by GCMS

Results Legend			Customer Sample Ref.	BH233	BH234	BH234	BH234	BH234	BH234
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	9.50 - 10.00	0.80 - 1.00	1.20 - 2.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	11/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
			Sampled Time						
			Date Received	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
			SDG Ref	190116-102	190116-102	190116-102	190116-102	190116-102	190116-102
			Lab Sample No.(s)	19125641	19125651	19125652	19125662	19125663	19125665
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		90.4	84.7	90.4	88.9	85.8	86.1
Acenaphthene-d10 % recovery**	%	TM218		86	88.6	91.6	88.3	87.3	87.3
Phenanthrene-d10 % recovery**	%	TM218		87.2	95.4	90.6	86	84	84.3
Chrysene-d12 % recovery**	%	TM218		92.7	89.2	94.1	98.4	84.3	84.8
Perylene-d12 % recovery**	%	TM218		88.8	73.6	98.9	105	83.3	84.8
Naphthalene	<9 µg/kg	TM218		<9	19.5	10.5	11.8	<9	11.7
Acenaphthylene	<12 µg/kg	TM218		<12	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218		<8	18.4	<8	10.8	<8	<8
Fluorene	<10 µg/kg	TM218		<10	24.2	<10	17.5	<10	14.9
Phenanthrene	<15 µg/kg	TM218		<15	70.2	63.9	48.1	29.1	45.2
Anthracene	<16 µg/kg	TM218		<16	<16	28.5	<16	29	<16
Fluoranthene	<17 µg/kg	TM218		<17	<17	108	<17	<17	<17
Pyrene	<15 µg/kg	TM218		<15	17.3	85.5	<15	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218		<14	<14	74.3	<14	<14	<14
Chrysene	<10 µg/kg	TM218		<10	<10	61.2	<10	<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15	<15	47.3	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14	<14	31.2	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218		<15	<15	60.1	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18	<18	28.3	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24	<24	30.8	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	150	630	<118	<118	<118



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

PAH by GCMS

Results Legend		Customer Sample Ref.	BH234	BH234	BH234	BH234	BH234	BH234
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	7.00 - 8.00
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
diss.filt	Dissolved / filtered sample.		10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed		16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
1-5&*\$@	Sample deviation (see appendix)		190116-102	190116-102	190116-102	190116-102	190116-102	190116-102
			19125666	19125653	19125654	19125656	19125657	19125659
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	85.2	86.8	87.6	89	84.3	89
Acenaphthene-d10 % recovery**	%	TM218	88.4	89.8	82.6	88.8	89.4	87.3
Phenanthrene-d10 % recovery**	%	TM218	92.5	88.5	86.7	87.9	97.7	87.6
Chrysene-d12 % recovery**	%	TM218	84.8	88.6	100	104	97.1	93.6
Perylene-d12 % recovery**	%	TM218	70.2	93.3	114	117	90.8	89.8
Naphthalene	<9 µg/kg	TM218	13.6	19.9	33.8	30.4	26.9	12.1
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	<8	29.7	17.6	20	<8
Fluorene	<10 µg/kg	TM218	16.7	20	46.4	35.1	31.8	<10
Phenanthrene	<15 µg/kg	TM218	52.8	52.1	148	133	119	<15
Anthracene	<16 µg/kg	TM218	<16	21.6	76.7	48.1	50.2	<16
Fluoranthene	<17 µg/kg	TM218	<17	67.6	238	164	104	26.5
Pyrene	<15 µg/kg	TM218	<15	55.2	201	131	84.3	24.9
Benz(a)anthracene	<14 µg/kg	TM218	15.2	36.2	129	89	46	<14
Chrysene	<10 µg/kg	TM218	<10	27.6	108	68.4	39.6	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	26.7	92.3	68.9	28.6	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	49.5	37.1	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	<15	27.4	104	77.6	30.1	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	57.7	44.1	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	57.1	41	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	354	1370	986	581	<118



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

PAH by GCMS

Results Legend		Customer Sample Ref.					
#	ISO17025 accredited.	BH234					
M	mCERTS accredited.						
aq	Aqueous / settled sample.	Depth (m)	8.00 - 10.00				
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)				
tot.unfilt	Total / unfiltered sample.	Date Sampled	10/01/2019				
*	Subcontracted test.	Sampled Time	.				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	16/01/2019				
(F)	Trigger breach confirmed	SDG Ref	190116-102				
1-5&*\$@	Sample deviation (see appendix)	Lab Sample No.(s)	19125660				
		AGS Reference					
Component	LOD/Units	Method					
Naphthalene-d8 % recovery**	%	TM218	86.9				
Acenaphthene-d10 % recovery**	%	TM218	86.2				
Phenanthrene-d10 % recovery**	%	TM218	85.4				
Chrysene-d12 % recovery**	%	TM218	100				
Perylene-d12 % recovery**	%	TM218	111				
Naphthalene	<9 µg/kg	TM218	<9		M		
Acenaphthylene	<12 µg/kg	TM218	<12		M		
Acenaphthene	<8 µg/kg	TM218	<8		M		
Fluorene	<10 µg/kg	TM218	<10		M		
Phenanthrene	<15 µg/kg	TM218	<15		M		
Anthracene	<16 µg/kg	TM218	<16		M		
Fluoranthene	<17 µg/kg	TM218	<17		M		
Pyrene	<15 µg/kg	TM218	<15		M		
Benz(a)anthracene	<14 µg/kg	TM218	<14		M		
Chrysene	<10 µg/kg	TM218	<10		M		
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15		M		
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14		M		
Benzo(a)pyrene	<15 µg/kg	TM218	<15		M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18		M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23		M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24		M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118				



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH232	BH232	BH232	BH232	BH232	BH232
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	75.2	93	105	89.4	39.4	17
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	8770	654000	110000	<100	537	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	15.1	233	297	<10	33.1	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	95.2	1670	1060	<10	63.8	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	716	45300	6560	<10	139	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	4470	345000	58700	<10	125	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	76700	368000	113000	<100	1140	1840
Aliphatics >C16-C21	<100 µg/kg	TM173	184000	467000	149000	<100	1400	1650
Aliphatics >C21-C35	<100 µg/kg	TM173	141000	396000	135000	<100	14800	13500
Aliphatics >C35-C44	<100 µg/kg	TM173	63100	56000	24500	<100	3940	3080
Total Aliphatics >C12-C44	<100 µg/kg	TM173	465000	1290000	422000	<100	21200	20100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<200	<100	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	15.1	1190	176	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	478	30200	4370	<10	92.3	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	2980	230000	39100	<10	83.2	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	246000	1790000	555000	1250	1040	144
Aromatics >EC16-EC21	<100 µg/kg	TM173	718000	2000000	643000	1510	1670	678
Aromatics >EC21-EC35	<100 µg/kg	TM173	375000	1140000	371000	762	5860	4120
Aromatics >EC35-EC44	<100 µg/kg	TM173	67400	168000	56000	<100	2140	963
Aromatics >EC40-EC44	<100 µg/kg	TM173	24100	52900	18700	<100	905	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1410000	5100000	1630000	3520	10700	5910
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1880000	7040000	2160000	3520	32500	26000



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH232	BH233	BH233	BH233	BH233	BH233
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
GRO Surrogate % recovery**	%	TM089	8.00 - 10.00	92.1	77.9	87.7	92.1	74.1
			Sample Type					
			Date Sampled					
			Sampled Time					
			Date Received					
			SDG Ref					
			Lab Sample No.(s)					
			AGS Reference					
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	0.00 - 0.50	<100	<100	<100	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	0.50 - 1.00	<10	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	1.00 - 2.00	<10	<10	<10	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	2.00 - 4.00	<10	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	4.00 - 8.00	<10	<10	<10	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	8.00 - 16.00	<100	2970	301	1850	2240
Aliphatics >C16-C21	<100 µg/kg	TM173	16.00 - 32.00	<100	8520	2450	4820	2990
Aliphatics >C21-C35	<100 µg/kg	TM173	32.00 - 64.00	<100	18400	17600	12900	6390
Aliphatics >C35-C44	<100 µg/kg	TM173	64.00 - 128.00	<100	3040	2340	753	1120
Total Aliphatics >C12-C44	<100 µg/kg	TM173	128.00 - 256.00	<100	33000	22700	20400	12700
Aromatics >EC5-EC7	<10 µg/kg	TM089	256.00 - 512.00	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	512.00 - 1024.00	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	1024.00 - 2048.00	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	2048.00 - 4096.00	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	4096.00 - 8192.00	<100	4460	1700	3110	549
Aromatics >EC16-EC21	<100 µg/kg	TM173	8192.00 - 16384.00	<100	22100	12500	20900	263
Aromatics >EC21-EC35	<100 µg/kg	TM173	16384.00 - 32768.00	328	51400	54800	76800	871
Aromatics >EC35-EC44	<100 µg/kg	TM173	32768.00 - 65536.00	892	16600	15600	16800	1000
Aromatics >EC40-EC44	<100 µg/kg	TM173	65536.00 - 131072.00	481	5340	4240	5080	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	131072.00 - 262144.00	1220	94600	84600	118000	2690
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	262144.00 - 524288.00	1220	128000	107000	138000	15400



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

VOC MS (S)

Results Legend			Customer Sample Ref.	BH234	BH234	BH234	BH234	BH234	BH234
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Dibromofluoromethane**	%	TM116	16.00 - 17.00	111	108	124	110	108	110
Toluene-d8**	%	TM116	2.00 - 3.00	92.8	97.3	96.5	97.7	98.7	98.7
4-Bromofluorobenzene**	%	TM116	3.00 - 4.00	76.8	82.4	89.6	92	87.4	91.3
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	4.00 - 5.00	<200	<10	<200	<200	<100	<100
Benzene	<9 µg/kg	TM116	5.00 - 6.00	<180	<9	<180	<180	<90	<90
Toluene	<7 µg/kg	TM116	6.00 - 7.00	<140	<7	<140	<140	<70	<70
Ethylbenzene	<4 µg/kg	TM116	7.00 - 8.00	<80	<4	<80	<80	<40	<40
p/m-Xylene	<10 µg/kg	TM116	Soil Type	<200	<10	<200	<200	<100	<100
o-Xylene	<10 µg/kg	TM116	Date Sampled	<200	<10	<200	<200	<100	<100
Sum of Detected Xylenes	<0.02 mg/kg	TM116	Date Received	<0.4	<0.02	<0.4	<0.4	<0.2	<0.2
Sum of BTEX	<40 µg/kg	TM116	Date Received	<800	<40	<800	<800	<400	<400
			SDG Ref						
			Lab Sample No.(s)						
			AGS Reference						



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Asbestos Identification - Solid Samples

Results Legend

- # ISO17025 accredited.
- M mCERTS accredited.
- * Subcontracted test.
- (F) Trigger breach confirmed
- 1-5&*\$@ Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. BH232 Depth (m) 0.00 - 0.50 Sample Type SOLID Date Sampled 14/01/2019 00:00:00 Date Received 16/01/2019 09:00:00 SDG 190116-102 Original Sample 19125615 Method Number TM048		23/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. BH232 Depth (m) 0.50 - 1.00 Sample Type SOLID Date Sampled 14/01/2019 00:00:00 Date Received 16/01/2019 09:00:00 SDG 190116-102 Original Sample 19125616 Method Number TM048		23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. BH232 Depth (m) 1.00 - 2.00 Sample Type SOLID Date Sampled 14/01/2019 00:00:00 Date Received 16/01/2019 09:00:00 SDG 190116-102 Original Sample 19125617 Method Number TM048		23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. BH232 Depth (m) 10.00 - 12.50 Sample Type SOLID Date Sampled 14/01/2019 00:00:00 Date Received 16/01/2019 09:00:00 SDG 190116-102 Original Sample 19125626 Method Number TM048		22/01/19	Andrzej Ferfecki	loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. BH232 Depth (m) 12.50 - 13.00 Sample Type SOLID Date Sampled 14/01/2019 00:00:00 Date Received 16/01/2019 09:00:00 SDG 190116-102 Original Sample 19125627 Method Number TM048		04/02/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. BH232 Depth (m) 13.00 - 14.00 Sample Type SOLID Date Sampled 14/01/2019 00:00:00 Date Received 16/01/2019 09:00:00 SDG 190116-102 Original Sample 19125628 Method Number TM048		23/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. BH232 Depth (m) 15.00 - 16.00 Sample Type SOLID Date Sampled 14/01/2019 00:00:00 Date Received 16/01/2019 09:00:00 SDG 190116-102 Original Sample 19125630 Method Number TM048		23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. BH232 Depth (m) 2.00 - 3.00 Sample Type SOLID Date Sampled 14/01/2019 00:00:00 Date Received 16/01/2019 09:00:00 SDG 190116-102 Original Sample 19125618 Method Number TM048		23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH232 3.00 - 4.00 SOLID 14/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125619 TM048	22/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH232 4.00 - 5.00 SOLID 14/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125620 TM048	22/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH232 5.00 - 6.00 SOLID 14/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125621 TM048	22/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH232 7.00 - 8.00 SOLID 14/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125623 TM048	22/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH232 8.00 - 10.00 SOLID 14/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125624 TM048	22/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 0.00 - 0.50 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125632 TM048	23/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 0.50 - 1.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125633 TM048	23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 1.00 - 2.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125634 TM048	23/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 11.00 - 12.50 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125644 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 12.50 - 13.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125646 TM048	22/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 14.00 - 15.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125648 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 16.00 - 17.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125650 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 2.00 - 3.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125635 TM048	23/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 3.00 - 4.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125636 TM048	23/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 5.00 - 6.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125638 TM048	23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 8.00 - 9.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125640 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH233 9.50 - 10.00 SOLID 11/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125641 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 0.80 - 1.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125651 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 1.20 - 2.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125652 TM048	23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 12.00 - 13.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125662 TM048	23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 13.00 - 14.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125663 TM048	22/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 15.00 - 16.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125665 TM048	23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 16.00 - 17.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125666 TM048	23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 2.00 - 3.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125653 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 3.00 - 4.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125654 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 4.00 - 5.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125656 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 5.00 - 6.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125657 TM048	23/01/19	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	Superseded Report: 490811
Location: City Block 9	Order Number: P2021550		

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 7.00 - 8.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125659 TM048	23/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH234 8.00 - 10.00 SOLID 10/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125660 TM048	23/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

Asbestos Quantification - Full

Results Legend

- # ISO17025 accredited.
- M mCERTS accredited.
- * Subcontracted test.
- (F) Trigger breach confirmed
- 1-5&*S@ Sample deviation (see appendix)

		Additional Asbestos Components	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH232 10.00 - 12.50 SOLID 14/01/2019 00:00:00 16/01/2019 09:00:00 190116-102 19125626 TM304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	8.23
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.4
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125615
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.29
Loss on Ignition (%)	4.86
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3310
PAH Sum of 17 (mg/kg)	1470
pH (pH Units)	11.2
ANC to pH 6 (mol/kg)	0.132
ANC to pH 4 (mol/kg)	0.2

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert	Stable	Hazardous
Arsenic	0.00741	<0.0005	0.0741	<0.005	0.5	2	25
Barium	0.0136	<0.0002	0.136	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.005	<0.001	0.05	<0.01	0.5	10	70
Copper	0.0327	<0.0003	0.327	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000147	<0.00001	0.000147	<0.0001	0.01	0.2	2
Molybdenum	0.0102	<0.003	0.102	<0.03	0.5	10	30
Nickel	0.00315	<0.0004	0.0315	<0.004	0.4	10	40
Lead	0.000331	<0.0002	0.00331	<0.002	0.5	10	50
Antimony	0.00148	<0.001	0.0148	<0.01	0.06	0.7	5
Selenium	0.00238	<0.001	0.0238	<0.01	0.1	0.5	7
Zinc	0.00174	<0.001	0.0174	<0.01	4	50	200
Chloride	13.8	<2	138	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	20.6	<2	206	<20	1000	20000	50000
Total Dissolved Solids	287	<5	2870	<50	4000	60000	100000
Total Monohydric Phenols (W)	1.65	<0.016	16.5	<0.16	1	-	-
Dissolved Organic Carbon	36.9	<15	369	<150	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	10.84
Conductivity (µS/cm)	420.00
Temperature (°C)	18.60
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.129	Natural Moisture Content (%)	42.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	70
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125616
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.47
Loss on Ignition (%)	9.82
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.105
Mineral Oil (mg/kg)	1140
PAH Sum of 17 (mg/kg)	1150
pH (pH Units)	7.88
ANC to pH 6 (mol/kg)	0.0583
ANC to pH 4 (mol/kg)	0.328

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0069	<0.0005	0.069	<0.005	0.5	2	25
Barium	0.00868	<0.0002	0.0868	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00663	<0.0003	0.0663	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.068	<0.003	0.68	<0.03	0.5	10	30
Nickel	0.00195	<0.0004	0.0195	<0.004	0.4	10	40
Lead	0.000834	<0.0002	0.00834	<0.002	0.5	10	50
Antimony	0.0083	<0.001	0.083	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0016	<0.001	0.016	<0.01	4	50	200
Chloride	8.2	<2	82	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	8.2	<2	82	<20	1000	20000	50000
Total Dissolved Solids	133	<5	1330	<50	4000	60000	100000
Total Monohydric Phenols (W)	8.72	<0.016	87.2	<0.16	1	-	-
Dissolved Organic Carbon	62.9	<3	629	<30	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	8.44
Conductivity (µS/cm)	167.00
Temperature (°C)	18.00
Volume Leachant (Litres)	0.861

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location
Mass Sample taken (kg)	0.135	Natural Moisture Content (%)
Mass of dry sample (kg)	0.090	49.3
Particle Size <4mm	>95%	Dry Matter Content (%)
		67

Case	
SDG	190116-102
Lab Sample Number(s)	19125617
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.32
Loss on Ignition (%)	2.78
Sum of BTEX (mg/kg)	0.973
Sum of 7 PCBs (mg/kg)	<0.105
Mineral Oil (mg/kg)	807
PAH Sum of 17 (mg/kg)	715
pH (pH Units)	7.76
ANC to pH 6 (mol/kg)	0.0765
ANC to pH 4 (mol/kg)	0.517

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00517	<0.0005	0.0517	<0.005	0.5	2	25
Barium	0.00717	<0.0002	0.0717	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00135	<0.0003	0.0135	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.045	<0.003	0.45	<0.03	0.5	10	30
Nickel	0.00202	<0.0004	0.0202	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00222	<0.001	0.0222	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00147	<0.001	0.0147	<0.01	4	50	200
Chloride	9.2	<2	92	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	158	<5	1580	<50	4000	60000	100000
Total Monohydric Phenols (W)	8.02	<0.016	80.2	<0.16	1	-	-
Dissolved Organic Carbon	40.8	<3	408	<30	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	8.13
Conductivity (µS/cm)	202.00
Temperature (°C)	17.80
Volume Leachant (Litres)	0.856

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.123	Natural Moisture Content (%)	37
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	73
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125618
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.35
Loss on Ignition (%)	5.18
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	174
PAH Sum of 17 (mg/kg)	130
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.0703
ANC to pH 4 (mol/kg)	0.482

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00587	<0.0005	0.0587	<0.005	0.5	2	25
Barium	0.00572	<0.0002	0.0572	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00047	<0.0003	0.0047	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0332	<0.003	0.332	<0.03	0.5	10	30
Nickel	0.00203	<0.0004	0.0203	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00199	<0.001	0.0199	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	8.3	<2	83	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	176	<5	1760	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.94	<0.016	9.4	<0.16	1	-	-
Dissolved Organic Carbon	20.3	<3	203	<30	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	222.00
Temperature (°C)	17.80
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.125	Natural Moisture Content (%)	38.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	72
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125619
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.83
Loss on Ignition (%)	5.75
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	67.2
PAH Sum of 17 (mg/kg)	65.2
pH (pH Units)	8.58
ANC to pH 6 (mol/kg)	0.0887
ANC to pH 4 (mol/kg)	0.624

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00597	<0.0005	0.0597	<0.005	0.5	2	25
Barium	0.00423	<0.0002	0.0423	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00118	<0.0003	0.0118	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0424	<0.003	0.424	<0.03	0.5	10	30
Nickel	0.00254	<0.0004	0.0254	<0.004	0.4	10	40
Lead	0.000401	<0.0002	0.00401	<0.002	0.5	10	50
Antimony	0.00272	<0.001	0.0272	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00117	<0.001	0.0117	<0.01	4	50	200
Chloride	8.5	<2	85	<20	800	15000	25000
Fluoride	0.538	<0.5	5.38	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	194	<5	1940	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.28	<0.016	2.8	<0.16	1	-	-
Dissolved Organic Carbon	19.1	<3	191	<30	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	253.00
Temperature (°C)	18.90
Volume Leachant (Litres)	0.865

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 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125620
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.04
Loss on Ignition (%)	5.07
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	23
PAH Sum of 17 (mg/kg)	27.5
pH (pH Units)	8.79
ANC to pH 6 (mol/kg)	0.0814
ANC to pH 4 (mol/kg)	0.343

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00288	<0.0005	0.0288	<0.005	0.5	2	25
Barium	0.00406	<0.0002	0.0406	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00406	<0.0003	0.0406	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0335	<0.003	0.335	<0.03	0.5	10	30
Nickel	0.00218	<0.0004	0.0218	<0.004	0.4	10	40
Lead	0.000801	<0.0002	0.00801	<0.002	0.5	10	50
Antimony	0.00384	<0.001	0.0384	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00166	<0.001	0.0166	<0.01	4	50	200
Chloride	12.9	<2	129	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	168	<5	1680	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.09	<0.016	0.9	<0.16	1	-	-
Dissolved Organic Carbon	14.9	<3	149	<30	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	8.44
Conductivity (µS/cm)	214.00
Temperature (°C)	18.80
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	9.77
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.1
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125621
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.714
Loss on Ignition (%)	1.4
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.9
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.96
ANC to pH 6 (mol/kg)	0.0803
ANC to pH 4 (mol/kg)	0.439

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00329	<0.0005	0.0329	<0.005	0.5	2	25
Barium	0.00357	<0.0002	0.0357	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00227	<0.0003	0.0227	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0162	<0.003	0.162	<0.03	0.5	10	30
Nickel	0.0014	<0.0004	0.014	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00323	<0.001	0.0323	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	11	<2	110	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	8.2	<2	82	<20	1000	20000	50000
Total Dissolved Solids	122	<5	1220	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.22	<3	72.2	<30	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	8.77
Conductivity (µS/cm)	155.00
Temperature (°C)	18.50
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	Superseded Report: 490811
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	6.95
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.5
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125623
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.414
Loss on Ignition (%)	1.17
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.83
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.41
ANC to pH 6 (mol/kg)	0.104
ANC to pH 4 (mol/kg)	0.281

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert	Stable	Hazardous
Arsenic	0.00191	<0.0005	0.0191	<0.005	0.5	2	25
Barium	0.00243	<0.0002	0.0243	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00184	<0.001	0.0184	<0.01	0.06	0.7	5
Selenium	0.00275	<0.001	0.0275	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	13.3	<2	133	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	6	<2	60	<20	1000	20000	50000
Total Dissolved Solids	86.5	<5	865	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.36	<3	33.6	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	9.27
Conductivity (µS/cm)	114.00
Temperature (°C)	17.80
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125624
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	8.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.279
Loss on Ignition (%)	0.799
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.47
ANC to pH 6 (mol/kg)	0.17
ANC to pH 4 (mol/kg)	0.6

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00133	<0.0005	0.0133	<0.005	0.5	2	25
Barium	0.00381	<0.0002	0.0381	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000749	<0.0003	0.00749	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00149	<0.001	0.0149	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	53	<2	530	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	7.8	<2	78	<20	1000	20000	50000
Total Dissolved Solids	180	<5	1800	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	8.89
Conductivity (µS/cm)	237.00
Temperature (°C)	18.70
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88

Case	
SDG	190116-102
Lab Sample Number(s)	19125626
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	10.00 - 12.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.362
Loss on Ignition (%)	1.5
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.8
PAH Sum of 17 (mg/kg)	13.2
pH (pH Units)	9.36
ANC to pH 6 (mol/kg)	0.0669
ANC to pH 4 (mol/kg)	0.348

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000861	<0.0005	0.00861	<0.005	0.5	2	25
Barium	0.137	<0.0002	1.37	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000864	<0.0003	0.00864	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0035	<0.003	0.035	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00402	<0.001	0.0402	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	119	<2	1190	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	20.8	<2	208	<20	1000	20000	50000
Total Dissolved Solids	335	<5	3350	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	20-Jan-2019
pH (pH Units)	8.63
Conductivity (µS/cm)	446.00
Temperature (°C)	18.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87

Case	
SDG	190116-102
Lab Sample Number(s)	19125627
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	12.50 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.749
Loss on Ignition (%)	2.2
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.9
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.213
ANC to pH 4 (mol/kg)	0.921

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000783	<0.0005	0.00783	<0.005	0.5	2	25
Barium	0.0825	<0.0002	0.825	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0157	<0.003	0.157	<0.03	0.5	10	30
Nickel	0.000905	<0.0004	0.00905	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00357	<0.001	0.0357	<0.01	0.06	0.7	5
Selenium	0.0253	<0.001	0.253	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	201	<4	2010	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.8	<2	408	<20	1000	20000	50000
Total Dissolved Solids	575	<5	5750	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	26-Jan-2019
pH (pH Units)	7.59
Conductivity (µS/cm)	768.00
Temperature (°C)	19.20
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	Superseded Report: 490811
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125628
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.727
Loss on Ignition (%)	2.04
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.49
ANC to pH 6 (mol/kg)	0.242
ANC to pH 4 (mol/kg)	1.08

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.000509	<0.0005	0.00509	<0.005	0.5	2	25
Barium	0.0648	<0.0002	0.648	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000341	<0.0003	0.00341	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0162	<0.003	0.162	<0.03	0.5	10	30
Nickel	0.000974	<0.0004	0.00974	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00271	<0.001	0.0271	<0.01	0.06	0.7	5
Selenium	0.028	<0.001	0.28	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	175	<2	1750	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	38	<2	380	<20	1000	20000	50000
Total Dissolved Solids	470	<5	4700	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.91
Conductivity (µS/cm)	618.00
Temperature (°C)	17.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125630
Sampled Date	14-Jan-2019
Customer Sample Ref.	BH232
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.678
Loss on Ignition (%)	1.74
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.6
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.43
ANC to pH 6 (mol/kg)	0.21
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0591	<0.0002	0.591	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000862	<0.0003	0.00862	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0185	<0.003	0.185	<0.03	0.5	10	30
Nickel	0.00151	<0.0004	0.0151	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00278	<0.001	0.0278	<0.01	0.06	0.7	5
Selenium	0.027	<0.001	0.27	<0.01	0.1	0.5	7
Zinc	0.00143	<0.001	0.0143	<0.01	4	50	200
Chloride	200	<2	2000	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	42.2	<2	422	<20	1000	20000	50000
Total Dissolved Solids	532	<5	5320	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.09	<3	30.9	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.76
Conductivity (µS/cm)	704.00
Temperature (°C)	18.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125632
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.88
Loss on Ignition (%)	2.48
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22
PAH Sum of 17 (mg/kg)	15
pH (pH Units)	10.1
ANC to pH 6 (mol/kg)	0.063
ANC to pH 4 (mol/kg)	0.132

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00855	<0.0005	0.0855	<0.005	0.5	2	25
Barium	0.0172	<0.0002	0.172	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00882	<0.001	0.0882	<0.01	0.5	10	70
Copper	0.0125	<0.0003	0.125	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0226	<0.003	0.226	<0.03	0.5	10	30
Nickel	0.00081	<0.0004	0.0081	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00286	<0.001	0.0286	<0.01	0.06	0.7	5
Selenium	0.00263	<0.001	0.0263	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	12	<2	120	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	211	<2	2110	<20	1000	20000	50000
Total Dissolved Solids	342	<5	3420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.16	<3	41.6	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.62
Conductivity (µS/cm)	464.00
Temperature (°C)	17.80
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125633
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.35
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.67
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0532
ANC to pH 4 (mol/kg)	0.349

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00179	<0.0005	0.0179	<0.005	0.5	2	25
Barium	0.0154	<0.0002	0.154	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0315	<0.003	0.315	<0.03	0.5	10	30
Nickel	0.00147	<0.0004	0.0147	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00292	<0.001	0.0292	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00173	<0.001	0.0173	<0.01	4	50	200
Chloride	4.8	<2	48	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	187	<2	1870	<20	1000	20000	50000
Total Dissolved Solids	350	<5	3500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.6	<3	76	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.38
Conductivity (µS/cm)	456.00
Temperature (°C)	16.10
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.122	Natural Moisture Content (%)	35.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	74
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125634
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.89
Loss on Ignition (%)	6.96
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.67
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.2
ANC to pH 6 (mol/kg)	0.0573
ANC to pH 4 (mol/kg)	0.29

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00481	<0.0005	0.0481	<0.005	0.5	2	25
Barium	0.0044	<0.0002	0.044	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0435	<0.003	0.435	<0.03	0.5	10	30
Nickel	0.0014	<0.0004	0.014	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00259	<0.001	0.0259	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	5	<2	50	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	26.1	<2	261	<20	1000	20000	50000
Total Dissolved Solids	174	<5	1740	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.6	<3	116	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.40
Conductivity (µS/cm)	231.00
Temperature (°C)	17.80
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125635
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.34
Loss on Ignition (%)	5.79
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	36.2
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.0824
ANC to pH 4 (mol/kg)	0.485

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00569	<0.0005	0.0569	<0.005	0.5	2	25
Barium	0.00472	<0.0002	0.0472	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0366	<0.003	0.366	<0.03	0.5	10	30
Nickel	0.00158	<0.0004	0.0158	<0.004	0.4	10	40
Lead	0.00025	<0.0002	0.0025	<0.002	0.5	10	50
Antimony	0.00247	<0.001	0.0247	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00214	<0.001	0.0214	<0.01	4	50	200
Chloride	10.7	<2	107	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	208	<5	2080	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.4	<3	144	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	261.00
Temperature (°C)	18.80
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125636
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.37
Loss on Ignition (%)	3.81
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	33.2
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.134
ANC to pH 4 (mol/kg)	0.673

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00814	<0.0005	0.0814	<0.005	0.5	2	25
Barium	0.00411	<0.0002	0.0411	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.04	<0.003	0.4	<0.03	0.5	10	30
Nickel	0.00179	<0.0004	0.0179	<0.004	0.4	10	40
Lead	0.000567	<0.0002	0.00567	<0.002	0.5	10	50
Antimony	0.00257	<0.001	0.0257	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00167	<0.001	0.0167	<0.01	4	50	200
Chloride	13.3	<2	133	<20	800	15000	25000
Fluoride	0.51	<0.5	5.1	<5	10	150	500
Sulphate (soluble)	6.9	<2	69	<20	1000	20000	50000
Total Dissolved Solids	219	<5	2190	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.6	<3	136	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.04
Conductivity (µS/cm)	303.00
Temperature (°C)	17.70
Volume Leachant (Litres)	0.876

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 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125638
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.34
Loss on Ignition (%)	2.51
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.4
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.0961
ANC to pH 4 (mol/kg)	0.274

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00264	<0.0005	0.0264	<0.005	0.5	2	25
Barium	0.00664	<0.0002	0.0664	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00129	<0.0003	0.0129	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0296	<0.003	0.296	<0.03	0.5	10	30
Nickel	0.00184	<0.0004	0.0184	<0.004	0.4	10	40
Lead	0.000217	<0.0002	0.00217	<0.002	0.5	10	50
Antimony	0.00413	<0.001	0.0413	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00354	<0.001	0.0354	<0.01	4	50	200
Chloride	9	<2	90	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	42.4	<2	424	<20	1000	20000	50000
Total Dissolved Solids	218	<5	2180	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.1	<3	91	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	271.00
Temperature (°C)	18.00
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.34
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.3
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125640
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.222
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.8
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.21
ANC to pH 6 (mol/kg)	0.0714
ANC to pH 4 (mol/kg)	0.105

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00221	<0.0005	0.0221	<0.005	0.5	2	25
Barium	0.00801	<0.0002	0.0801	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00048	<0.0003	0.0048	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00334	<0.003	0.0334	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00144	<0.001	0.0144	<0.01	0.06	0.7	5
Selenium	0.00226	<0.001	0.0226	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	25.9	<2	259	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	22.1	<2	221	<20	1000	20000	50000
Total Dissolved Solids	144	<5	1440	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.34	<3	33.4	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	9.02
Conductivity (µS/cm)	186.00
Temperature (°C)	18.00
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.7
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125641
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	9.50 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.246
Loss on Ignition (%)	1.17
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.97
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.23
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.22

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00155	<0.0005	0.0155	<0.005	0.5	2	25
Barium	0.00655	<0.0002	0.0655	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00243	<0.0003	0.0243	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00313	<0.003	0.0313	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00258	<0.001	0.0258	<0.01	0.1	0.5	7
Zinc	0.00192	<0.001	0.0192	<0.01	4	50	200
Chloride	62.5	<2	625	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.5	<2	125	<20	1000	20000	50000
Total Dissolved Solids	210	<5	2100	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	9.54
Conductivity (µS/cm)	270.00
Temperature (°C)	17.70
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	Superseded Report: 490811
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	14.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	87
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125644
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	11.00 - 12.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.359
Loss on Ignition (%)	1.47
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.11
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.33
ANC to pH 6 (mol/kg)	0.0817
ANC to pH 4 (mol/kg)	0.179

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00192	<0.0005	0.0192	<0.005	0.5	2	25
Barium	0.0472	<0.0002	0.472	<0.002	20	100	300
Cadmium	0.000328	<0.00008	0.00328	<0.0008	0.04	1	5
Chromium	0.00336	<0.001	0.0336	<0.01	0.5	10	70
Copper	0.00418	<0.0003	0.0418	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00466	<0.0004	0.0466	<0.004	0.4	10	40
Lead	0.00263	<0.0002	0.0263	<0.002	0.5	10	50
Antimony	0.00112	<0.001	0.0112	<0.01	0.06	0.7	5
Selenium	0.00207	<0.001	0.0207	<0.01	0.1	0.5	7
Zinc	0.0123	<0.001	0.123	<0.01	4	50	200
Chloride	141	<2	1410	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	22.2	<2	222	<20	1000	20000	50000
Total Dissolved Solids	406	<5	4060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.27	<3	32.7	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	537.00
Temperature (°C)	18.60
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125646
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	12.50 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.649
Loss on Ignition (%)	2.13
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.12
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.78
ANC to pH 6 (mol/kg)	0.246
ANC to pH 4 (mol/kg)	1.48

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000585	<0.0005	0.00585	<0.005	0.5	2	25
Barium	0.0612	<0.0002	0.612	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000792	<0.0003	0.00792	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0167	<0.003	0.167	<0.03	0.5	10	30
Nickel	0.000911	<0.0004	0.00911	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00276	<0.001	0.0276	<0.01	0.06	0.7	5
Selenium	0.0268	<0.001	0.268	<0.01	0.1	0.5	7
Zinc	0.00135	<0.001	0.0135	<0.01	4	50	200
Chloride	198	<2	1980	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47.8	<2	478	<20	1000	20000	50000
Total Dissolved Solids	539	<5	5390	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	6.84
Conductivity (µS/cm)	716.00
Temperature (°C)	17.10
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125648
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.67
Loss on Ignition (%)	4.24
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	60.6
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.22
ANC to pH 6 (mol/kg)	0.135
ANC to pH 4 (mol/kg)	1.39

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0478	<0.0002	0.478	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00039	<0.0003	0.0039	<0.003	2	50	100
Mercury Dissolved (CVAf)	0.0000199	<0.00001	0.000199	<0.0001	0.01	0.2	2
Molybdenum	0.0196	<0.003	0.196	<0.03	0.5	10	30
Nickel	0.00127	<0.0004	0.0127	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00232	<0.001	0.0232	<0.01	0.06	0.7	5
Selenium	0.0288	<0.001	0.288	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	149	<2	1490	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	42.3	<2	423	<20	1000	20000	50000
Total Dissolved Solids	416	<5	4160	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.57	<3	35.7	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	6.36
Conductivity (µS/cm)	558.00
Temperature (°C)	17.90
Volume Leachant (Litres)	0.889

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 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.82
Dry Matter Content (%)	94.5

Case	
SDG	190116-102
Lab Sample Number(s)	19125650
Sampled Date	11-Jan-2019
Customer Sample Ref.	BH233
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.689
Loss on Ignition (%)	0.784
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	27.3
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.03
ANC to pH 6 (mol/kg)	0.0951
ANC to pH 4 (mol/kg)	1.14

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0566	<0.0002	0.566	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00127	<0.0003	0.0127	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0202	<0.003	0.202	<0.03	0.5	10	30
Nickel	0.00105	<0.0004	0.0105	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00243	<0.001	0.0243	<0.01	0.06	0.7	5
Selenium	0.0248	<0.001	0.248	<0.01	0.1	0.5	7
Zinc	0.00284	<0.001	0.0284	<0.01	4	50	200
Chloride	132	<2	1320	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.3	<2	373	<20	1000	20000	50000
Total Dissolved Solids	363	<5	3630	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	459.00
Temperature (°C)	15.80
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.093	Natural Moisture Content (%)	3.63
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	96.5
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125651
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	0.80 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.339
Loss on Ignition (%)	2.31
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	96.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	10.9
ANC to pH 6 (mol/kg)	0.178
ANC to pH 4 (mol/kg)	0.398

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00149	<0.0005	0.0149	<0.005	0.5	2	25
Barium	0.0142	<0.0002	0.142	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.015	<0.001	0.15	<0.01	0.5	10	70
Copper	0.00108	<0.0003	0.0108	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0132	<0.003	0.132	<0.03	0.5	10	30
Nickel	0.000491	<0.0004	0.00491	<0.004	0.4	10	40
Lead	0.000233	<0.0002	0.00233	<0.002	0.5	10	50
Antimony	0.00106	<0.001	0.0106	<0.01	0.06	0.7	5
Selenium	0.00588	<0.001	0.0588	<0.01	0.1	0.5	7
Zinc	0.00162	<0.001	0.0162	<0.01	4	50	200
Chloride	22.2	<2	222	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	93.5	<2	935	<20	1000	20000	50000
Total Dissolved Solids	364	<5	3640	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.1	<3	31	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	10.97
Conductivity (µS/cm)	487.00
Temperature (°C)	19.00
Volume Leachant (Litres)	0.897

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	Superseded Report: 490811
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125652
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	1.20 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.3
Loss on Ignition (%)	2.22
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.4
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.5
ANC to pH 6 (mol/kg)	0.0606
ANC to pH 4 (mol/kg)	0.198

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0118	<0.0005	0.118	<0.005	0.5	2	25
Barium	0.00155	<0.0002	0.0155	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00111	<0.001	0.0111	<0.01	0.5	10	70
Copper	0.00779	<0.0003	0.0779	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000152	<0.00001	0.000152	<0.0001	0.01	0.2	2
Molybdenum	0.0136	<0.003	0.136	<0.03	0.5	10	30
Nickel	0.000922	<0.0004	0.00922	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00356	<0.001	0.0356	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	4.9	<2	49	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.8	<2	378	<20	1000	20000	50000
Total Dissolved Solids	118	<5	1180	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.57	<3	75.7	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	9.53
Conductivity (µS/cm)	156.00
Temperature (°C)	18.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81

Case	
SDG	190116-102
Lab Sample Number(s)	19125653
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.345
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	60.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.0536
ANC to pH 4 (mol/kg)	0.147

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00179	<0.0005	0.0179	<0.005	0.5	2	25
Barium	0.00427	<0.0002	0.0427	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00157	<0.0003	0.0157	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0102	<0.003	0.102	<0.03	0.5	10	30
Nickel	0.000673	<0.0004	0.00673	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00167	<0.001	0.0167	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	9.4	<2	94	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	22	<2	220	<20	1000	20000	50000
Total Dissolved Solids	113	<5	1130	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.75	<3	47.5	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.46
Conductivity (µS/cm)	144.00
Temperature (°C)	18.30
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125654
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.15
Loss on Ignition (%)	1.9
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.2
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.76
ANC to pH 6 (mol/kg)	0.065
ANC to pH 4 (mol/kg)	0.253

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.0015	<0.0005	0.015	<0.005	0.5	2	25
Barium	0.00718	<0.0002	0.0718	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0182	<0.003	0.182	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0028	<0.001	0.028	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	7.7	<2	77	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	13	<2	130	<20	1000	20000	50000
Total Dissolved Solids	102	<5	1020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.6	<3	116	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.60
Conductivity (µS/cm)	129.00
Temperature (°C)	18.00
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.115	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125656
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.14
Loss on Ignition (%)	4.66
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.1
ANC to pH 6 (mol/kg)	0.0612
ANC to pH 4 (mol/kg)	0.302

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00206	<0.0005	0.0206	<0.005	0.5	2	25
Barium	0.00714	<0.0002	0.0714	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0185	<0.003	0.185	<0.03	0.5	10	30
Nickel	0.00123	<0.0004	0.0123	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00205	<0.001	0.0205	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00127	<0.001	0.0127	<0.01	4	50	200
Chloride	4.9	<2	49	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	51.1	<2	511	<20	1000	20000	50000
Total Dissolved Solids	188	<5	1880	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.5	<3	105	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.18
Conductivity (µS/cm)	236.00
Temperature (°C)	13.80
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
 Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.109	Natural Moisture Content (%)	20.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	83
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125657
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.862
Loss on Ignition (%)	2.43
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	122
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.67
ANC to pH 6 (mol/kg)	0.0491
ANC to pH 4 (mol/kg)	0.0997

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00215	<0.0005	0.0215	<0.005	0.5	2	25
Barium	0.00669	<0.0002	0.0669	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00137	<0.0003	0.0137	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.02	<0.003	0.2	<0.03	0.5	10	30
Nickel	0.00114	<0.0004	0.0114	<0.004	0.4	10	40
Lead	0.000534	<0.0002	0.00534	<0.002	0.5	10	50
Antimony	0.00389	<0.001	0.0389	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00238	<0.001	0.0238	<0.01	4	50	200
Chloride	5.1	<2	51	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	52.1	<2	521	<20	1000	20000	50000
Total Dissolved Solids	196	<5	1960	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.23	<3	62.3	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	7.71
Conductivity (µS/cm)	256.00
Temperature (°C)	17.30
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125659
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.296
Loss on Ignition (%)	0.965
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.85
ANC to pH 6 (mol/kg)	0.112
ANC to pH 4 (mol/kg)	0.353

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00246	<0.0005	0.0246	<0.005	0.5	2	25
Barium	0.00489	<0.0002	0.0489	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00612	<0.003	0.0612	<0.03	0.5	10	30
Nickel	0.000743	<0.0004	0.00743	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00235	<0.001	0.0235	<0.01	0.06	0.7	5
Selenium	0.00224	<0.001	0.0224	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	15.7	<2	157	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	29.9	<2	299	<20	1000	20000	50000
Total Dissolved Solids	142	<5	1420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	23-Jan-2019
pH (pH Units)	8.43
Conductivity (µS/cm)	188.00
Temperature (°C)	17.80
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.89
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125660
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	8.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.368
Loss on Ignition (%)	2.45
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	25.7
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.16
ANC to pH 6 (mol/kg)	0.091
ANC to pH 4 (mol/kg)	0.204

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00245	<0.0005	0.0245	<0.005	0.5	2	25
Barium	0.0104	<0.0002	0.104	<0.002	20	100	300
Cadmium	0.000237	<0.00008	0.00237	<0.0008	0.04	1	5
Chromium	0.0019	<0.001	0.019	<0.01	0.5	10	70
Copper	0.00336	<0.0003	0.0336	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.0028	<0.0004	0.028	<0.004	0.4	10	40
Lead	0.00185	<0.0002	0.0185	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00211	<0.001	0.0211	<0.01	0.1	0.5	7
Zinc	0.0137	<0.001	0.137	<0.01	4	50	200
Chloride	52.9	<2	529	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	13.3	<2	133	<20	1000	20000	50000
Total Dissolved Solids	185	<5	1850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.95
Conductivity (µS/cm)	242.00
Temperature (°C)	18.90
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	Superseded Report: 490811
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125662
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.632
Loss on Ignition (%)	0.995
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	71.4
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.59
ANC to pH 6 (mol/kg)	0.216
ANC to pH 4 (mol/kg)	0.881

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert	Stable	Hazardous
Arsenic	0.000673	<0.0005	0.00673	<0.005	0.5	2	25
Barium	0.0876	<0.0002	0.876	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000518	<0.0003	0.00518	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0153	<0.003	0.153	<0.03	0.5	10	30
Nickel	0.000698	<0.0004	0.00698	<0.004	0.4	10	40
Lead	0.000549	<0.0002	0.00549	<0.002	0.5	10	50
Antimony	0.00281	<0.001	0.0281	<0.01	0.06	0.7	5
Selenium	0.0243	<0.001	0.243	<0.01	0.1	0.5	7
Zinc	0.00124	<0.001	0.0124	<0.01	4	50	200
Chloride	222	<4	2220	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.2	<2	402	<20	1000	20000	50000
Total Dissolved Solids	606	<5	6060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	7.79
Conductivity (µS/cm)	803.00
Temperature (°C)	17.60
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

06/02/2019 08:26:06



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	8.23
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.4
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125665
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.759
Loss on Ignition (%)	1.59
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	55.4
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.55
ANC to pH 6 (mol/kg)	0.142
ANC to pH 4 (mol/kg)	1.75

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0398	<0.0002	0.398	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000833	<0.0003	0.00833	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0232	<0.003	0.232	<0.03	0.5	10	30
Nickel	0.000892	<0.0004	0.00892	<0.004	0.4	10	40
Lead	0.000473	<0.0002	0.00473	<0.002	0.5	10	50
Antimony	0.00269	<0.001	0.0269	<0.01	0.06	0.7	5
Selenium	0.0317	<0.001	0.317	<0.01	0.1	0.5	7
Zinc	0.00163	<0.001	0.0163	<0.01	4	50	200
Chloride	137	<2	1370	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	51.4	<2	514	<20	1000	20000	50000
Total Dissolved Solids	405	<5	4050	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.28	<3	32.8	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.47
Conductivity (µS/cm)	533.00
Temperature (°C)	17.90
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102	Client Reference: 602387	Report Number: 491397	
Location: City Block 9	Order Number: P2021550	Superseded Report: 490811	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.093	Natural Moisture Content (%)	4.38
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	95.8
Particle Size <4mm	>95%		

Case	
SDG	190116-102
Lab Sample Number(s)	19125666
Sampled Date	10-Jan-2019
Customer Sample Ref.	BH234
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.73
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	51.2
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.48
ANC to pH 6 (mol/kg)	0.202
ANC to pH 4 (mol/kg)	0.747

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0456	<0.0002	0.456	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000443	<0.0003	0.00443	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0173	<0.003	0.173	<0.03	0.5	10	30
Nickel	0.000585	<0.0004	0.00585	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00228	<0.001	0.0228	<0.01	0.06	0.7	5
Selenium	0.0252	<0.001	0.252	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	96.8	<2	968	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	35.7	<2	357	<20	1000	20000	50000
Total Dissolved Solids	300	<5	3000	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.39	<3	33.9	<30	500	800	1000

Leach Test Information

Date Prepared	22-Jan-2019
pH (pH Units)	8.47
Conductivity (µS/cm)	533.00
Temperature (°C)	17.90
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Table of Results - Appendix

Table with 3 columns: Method No, Reference, and Description. Rows include methods like PM001, PM024, TM018, etc., with their respective references and descriptions.

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19125615	19125616	19125617	19125618	19125619	19125620	19125621	19125623	19125624	19125626
	BH232	BH232	BH232	BH232	BH232	BH232	BH232	BH232	BH232	BH232
AGS Ref.										
Depth	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	7.00 - 8.00	8.00 - 10.00	10.00 - 12.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	24-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	24-Jan-2019
Anions by Kone (w)	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Asbestos ID in Solid Samples	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019
Asbestos Quantification - Full										01-Feb-2019
CEN 10:1 Leachate (1 Stage)	20-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019	22-Jan-2019	20-Jan-2019	20-Jan-2019
CEN Readings	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019
Coronene	22-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Dissolved Metals by ICP-MS	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Dissolved Organic/Inorganic Carbon	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
EPH CWG (Aliphatic) GC (S)	24-Jan-2019	24-Jan-2019	22-Jan-2019	22-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	22-Jan-2019
EPH CWG (Aromatic) GC (S)	24-Jan-2019	24-Jan-2019	23-Jan-2019	22-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	22-Jan-2019
Fluoride	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
GRO by GC-FID (S)	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019
Hexavalent Chromium (s)	24-Jan-2019	22-Jan-2019	24-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	24-Jan-2019
Loss on Ignition in soils	25-Jan-2019	22-Jan-2019	24-Jan-2019	22-Jan-2019	23-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	22-Jan-2019	23-Jan-2019
Mercury Dissolved	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
Metals in solid samples by OES	23-Jan-2019	22-Jan-2019	26-Jan-2019	22-Jan-2019	23-Jan-2019	26-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019
Mineral Oil	22-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
PAH 16 & 17 Calc	23-Jan-2019	25-Jan-2019	23-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019
PAH by GCMS	23-Jan-2019	25-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019
PCBs by GCMS	23-Jan-2019	28-Jan-2019	28-Jan-2019	23-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	23-Jan-2019	23-Jan-2019
pH	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019
Phenols by HPLC (S)	25-Jan-2019	24-Jan-2019	25-Jan-2019	23-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	23-Jan-2019	25-Jan-2019	23-Jan-2019
Phenols by HPLC (W)	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Sample description	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019
Total Dissolved Solids	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Total Organic Carbon	22-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019
TPH CWG GC (S)	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019
VOC MS (S)	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19125627	19125628	19125630	19125632	19125633	19125634	19125635	19125636	19125638	19125640
	BH232	BH232	BH232	BH233	BH233	BH233	BH233	BH233	BH233	BH233
AGS Ref.										
Depth	12.50 - 13.00	13.00 - 14.00	15.00 - 16.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00	8.00 - 9.00
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	31-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Anions by Kone (w)	04-Feb-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019
Asbestos ID in Solid Samples	04-Feb-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
CEN 10:1 Leachate (1 Stage)	26-Jan-2019	22-Jan-2019	22-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019
CEN Readings	29-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019
Coronene	28-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019
Dissolved Metals by ICP-MS	04-Feb-2019	24-Jan-2019	24-Jan-2019	28-Jan-2019	24-Jan-2019	28-Jan-2019	24-Jan-2019	28-Jan-2019	24-Jan-2019	24-Jan-2019
Dissolved Organic/Inorganic Carbon	04-Feb-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019
EPH CWG (Aliphatic) GC (S)	01-Feb-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	22-Jan-2019
EPH CWG (Aromatic) GC (S)	01-Feb-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	22-Jan-2019
Fluoride	31-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019
GRO by GC-FID (S)	06-Feb-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019
Hexavalent Chromium (s)	04-Feb-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	24-Jan-2019	22-Jan-2019
Loss on Ignition in soils	31-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019	25-Jan-2019	23-Jan-2019	23-Jan-2019	25-Jan-2019
Mercury Dissolved	01-Feb-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
Metals in solid samples by OES	01-Feb-2019	24-Jan-2019	26-Jan-2019	28-Jan-2019	24-Jan-2019	28-Jan-2019	28-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019
Mineral Oil	28-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019
PAH 16 & 17 Calc	29-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019
PAH by GCMS	29-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019
PCBs by GCMS	01-Feb-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019
pH	01-Feb-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019
Phenols by HPLC (S)	31-Jan-2019	24-Jan-2019	23-Jan-2019	25-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Phenols by HPLC (W)	31-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019
Sample description	25-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019
Total Dissolved Solids	29-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Total Organic Carbon	05-Feb-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	28-Jan-2019	28-Jan-2019	24-Jan-2019	25-Jan-2019	28-Jan-2019
TPH CWG GC (S)	06-Feb-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019
VOC MS (S)	05-Feb-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Lab Sample No(s) Customer Sample Ref.	19125641	19125644	19125646	19125648	19125650	19125651	19125652	19125653	19125654	19125656
	BH233	BH233	BH233	BH233	BH233	BH234	BH234	BH234	BH234	BH234
	AGS Ref. Depth Type									
	9.50 - 10.00	11.00 - 12.50	12.50 - 13.00	14.00 - 15.00	16.00 - 17.00	0.80 - 1.00	1.20 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	24-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Anions by Kone (w)	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Asbestos ID in Solid Samples	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
CEN 10:1 Leachate (1 Stage)	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019
CEN Readings	23-Jan-2019	23-Jan-2019	23-Jan-2019	24-Jan-2019	23-Jan-2019	23-Jan-2019	24-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Coronene	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
Dissolved Metals by ICP-MS	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Dissolved Organic/Inorganic Carbon	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
EPH CWG (Aliphatic) GC (S)	23-Jan-2019	23-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
EPH CWG (Aromatic) GC (S)	23-Jan-2019	23-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Fluoride	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
GRO by GC-FID (S)	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019
Hexavalent Chromium (s)	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	22-Jan-2019
Loss on Ignition in soils	23-Jan-2019	23-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	23-Jan-2019	23-Jan-2019	25-Jan-2019	23-Jan-2019	25-Jan-2019
Mercury Dissolved	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019
Metals in solid samples by OES	24-Jan-2019	24-Jan-2019	23-Jan-2019	24-Jan-2019	26-Jan-2019	24-Jan-2019	26-Jan-2019	25-Jan-2019	24-Jan-2019	23-Jan-2019
Mineral Oil	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019
PAH 16 & 17 Calc	24-Jan-2019	25-Jan-2019	25-Jan-2019	23-Jan-2019	25-Jan-2019	23-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
PAH by GCMS	24-Jan-2019	24-Jan-2019	25-Jan-2019	23-Jan-2019	25-Jan-2019	23-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
PCBs by GCMS	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	23-Jan-2019
pH	22-Jan-2019	22-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019
Phenols by HPLC (S)	24-Jan-2019	25-Jan-2019	23-Jan-2019	23-Jan-2019	25-Jan-2019	23-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	23-Jan-2019
Phenols by HPLC (W)	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Sample description	19-Jan-2019	19-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019
Total Dissolved Solids	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Total Organic Carbon	25-Jan-2019	25-Jan-2019	23-Jan-2019	28-Jan-2019	23-Jan-2019	24-Jan-2019	23-Jan-2019	25-Jan-2019	24-Jan-2019	23-Jan-2019
TPH CWG GC (S)	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019
VOC MS (S)	24-Jan-2019	24-Jan-2019	24-Jan-2019	28-Jan-2019	28-Jan-2019	24-Jan-2019	25-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19125657	19125659	19125660	19125662	19125663	19125665	19125666
	BH234	BH234	BH234	BH234	BH234	BH234	BH234
	AGS Ref. Depth Type						
	5.00 - 6.00	7.00 - 8.00	8.00 - 10.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00	16.00 - 17.00
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019
Anions by Kone (w)	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	28-Jan-2019	24-Jan-2019	24-Jan-2019
Asbestos ID in Solid Samples	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019
CEN 10:1 Leachate (1 Stage)	22-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019	24-Jan-2019	22-Jan-2019	22-Jan-2019
CEN Readings	23-Jan-2019	24-Jan-2019	23-Jan-2019	23-Jan-2019	25-Jan-2019	23-Jan-2019	23-Jan-2019
Coronene	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019
Dissolved Metals by ICP-MS	24-Jan-2019	28-Jan-2019	24-Jan-2019	24-Jan-2019	28-Jan-2019	24-Jan-2019	24-Jan-2019
Dissolved Organic/Inorganic Carbon	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	29-Jan-2019	24-Jan-2019	24-Jan-2019
EPH CWG (Aliphatic) GC (S)	24-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	22-Jan-2019	24-Jan-2019
EPH CWG (Aromatic) GC (S)	24-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	22-Jan-2019	24-Jan-2019
Fluoride	24-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	28-Jan-2019	24-Jan-2019	24-Jan-2019
GRO by GC-FID (S)	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
Hexavalent Chromium (s)	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019
Loss on Ignition in soils	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	23-Jan-2019	25-Jan-2019	24-Jan-2019
Mercury Dissolved	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	28-Jan-2019	25-Jan-2019	25-Jan-2019
Metals in solid samples by OES	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019
Mineral Oil	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019
PAH 16 & 17 Calc	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	23-Jan-2019
PAH by GCMS	23-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	23-Jan-2019
PCBs by GCMS	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019
pH	23-Jan-2019	22-Jan-2019	23-Jan-2019	23-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019
Phenols by HPLC (S)	25-Jan-2019	25-Jan-2019	25-Jan-2019	23-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019
Phenols by HPLC (W)	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	29-Jan-2019	24-Jan-2019	24-Jan-2019
Sample description	18-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019
Total Dissolved Solids	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	28-Jan-2019	24-Jan-2019	24-Jan-2019
Total Organic Carbon	28-Jan-2019	28-Jan-2019	28-Jan-2019	28-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019
TPH CWG GC (S)	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019	25-Jan-2019
VOC MS (S)	24-Jan-2019	24-Jan-2019	24-Jan-2019	24-Jan-2019	25-Jan-2019	28-Jan-2019	25-Jan-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

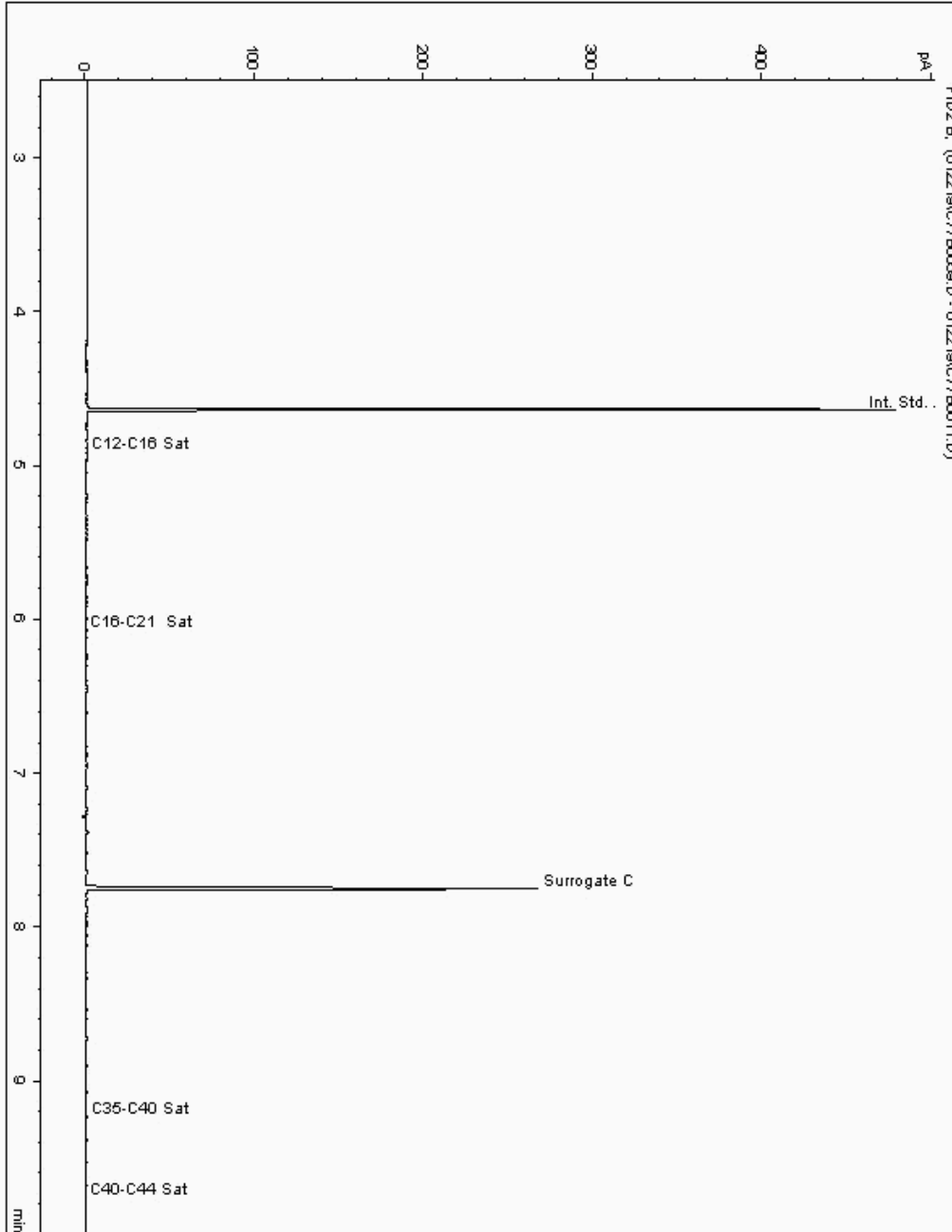
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19141298
Sample ID : BH232

Depth : 8.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977250-
Date Acquired : 1/23/2019 9:51:25 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

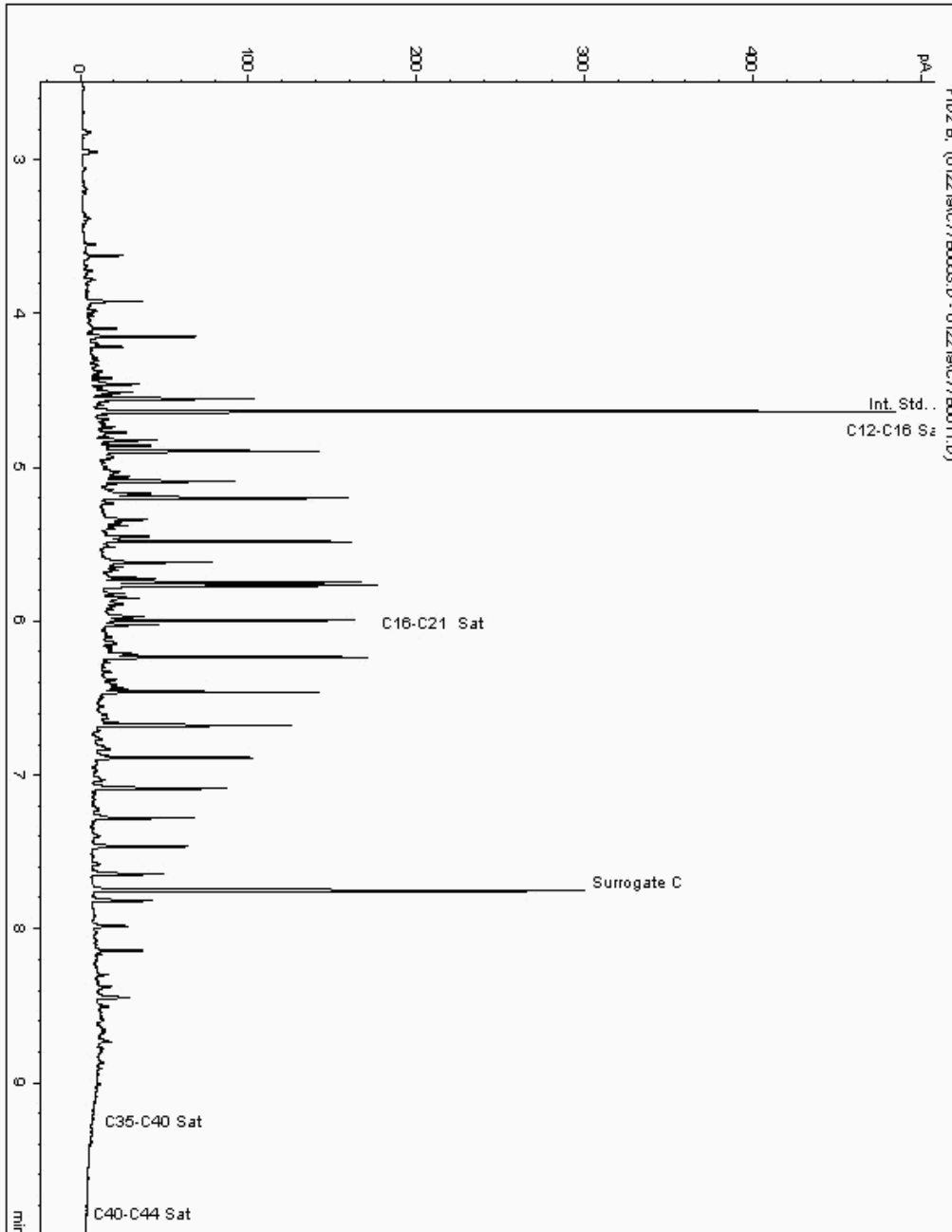
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19141421
Sample ID : BH232

Depth : 0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977062-
Date Acquired : 1/23/2019 8:16:02 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

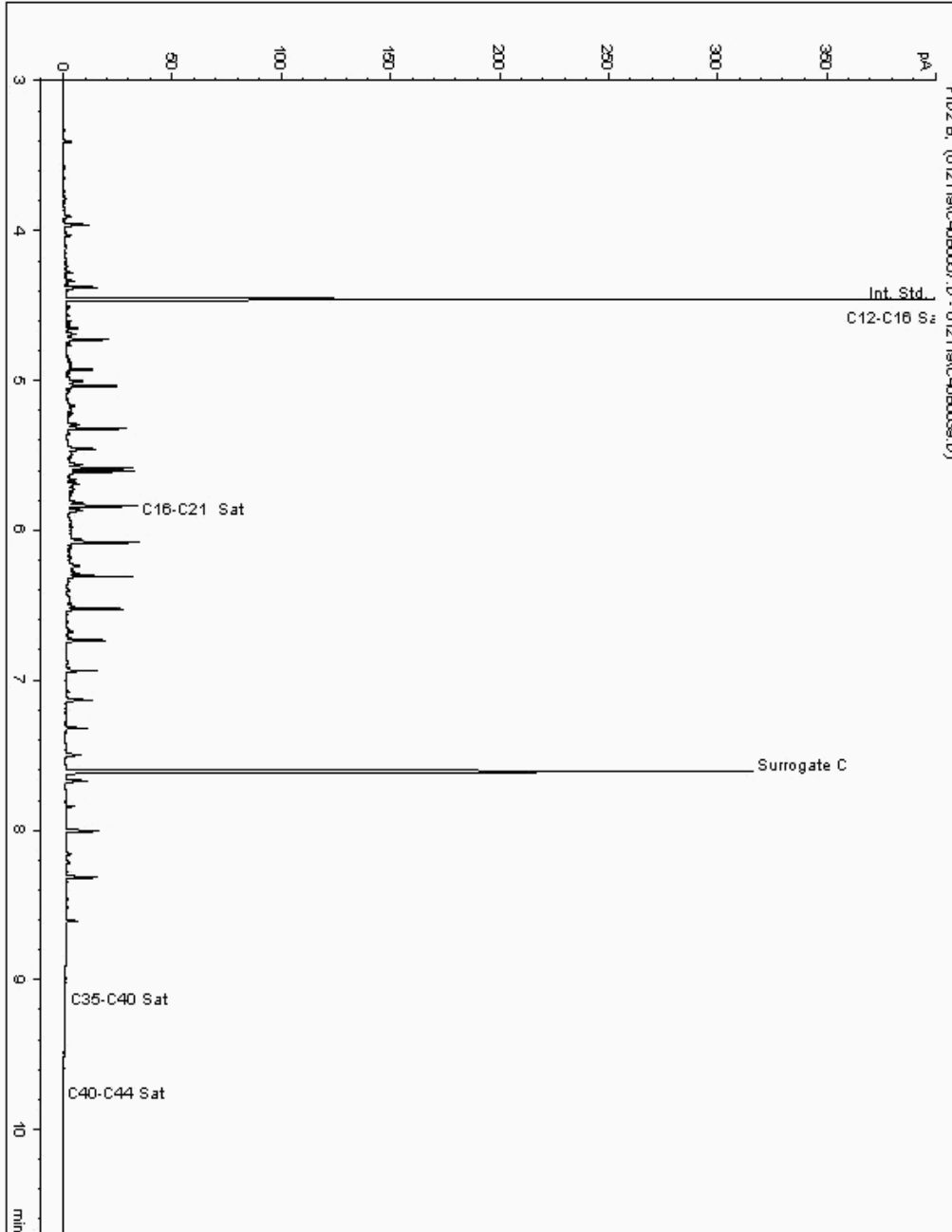
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19141509
Sample ID : BH232

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977118-
Date Acquired : 22/01/2019 08:39:01 PM
Units : ppb
Dilution: BH232[2.00 - 3.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

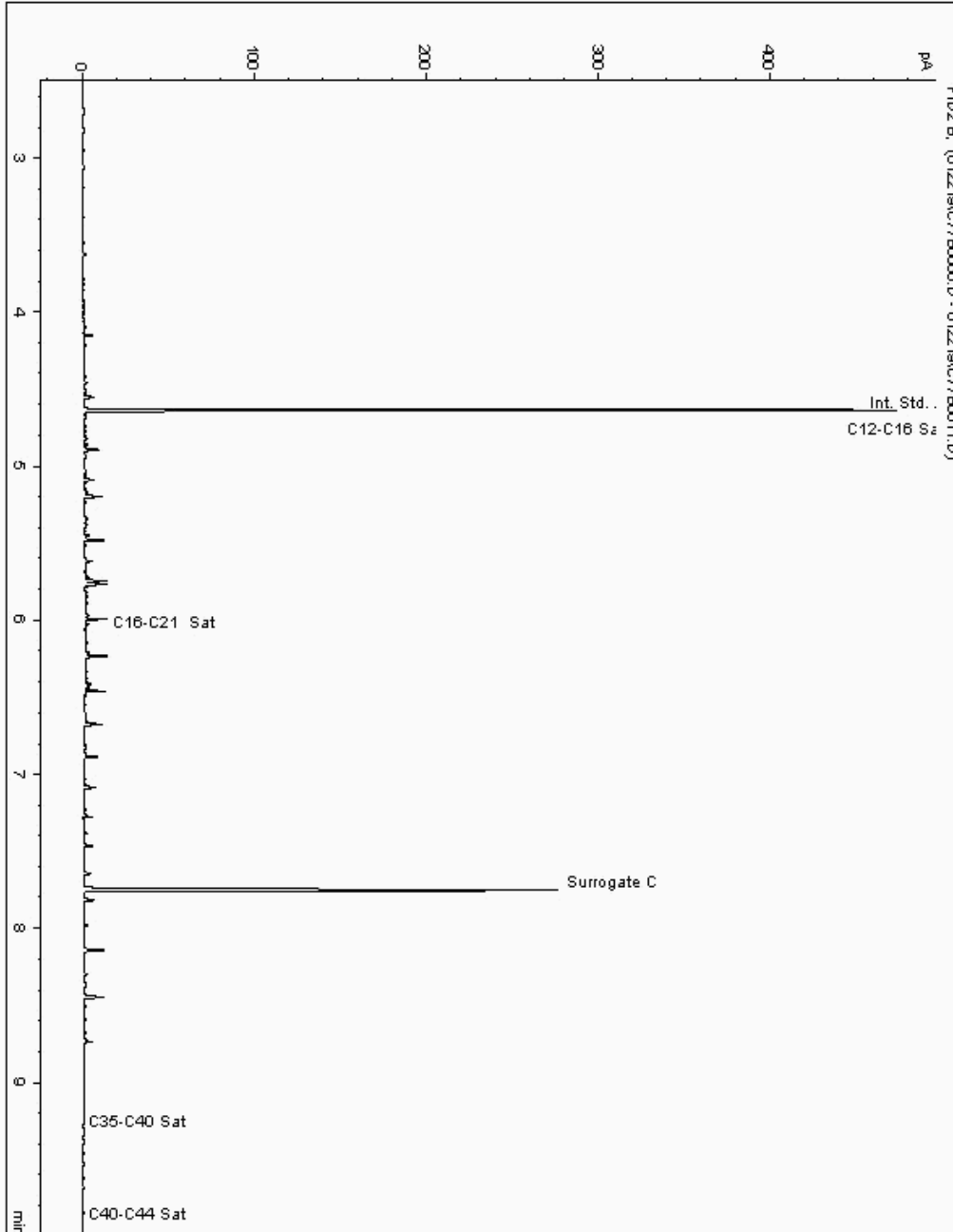
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19141669
Sample ID : BH232

Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977171-
Date Acquired : 1/23/2019 10:11:25 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

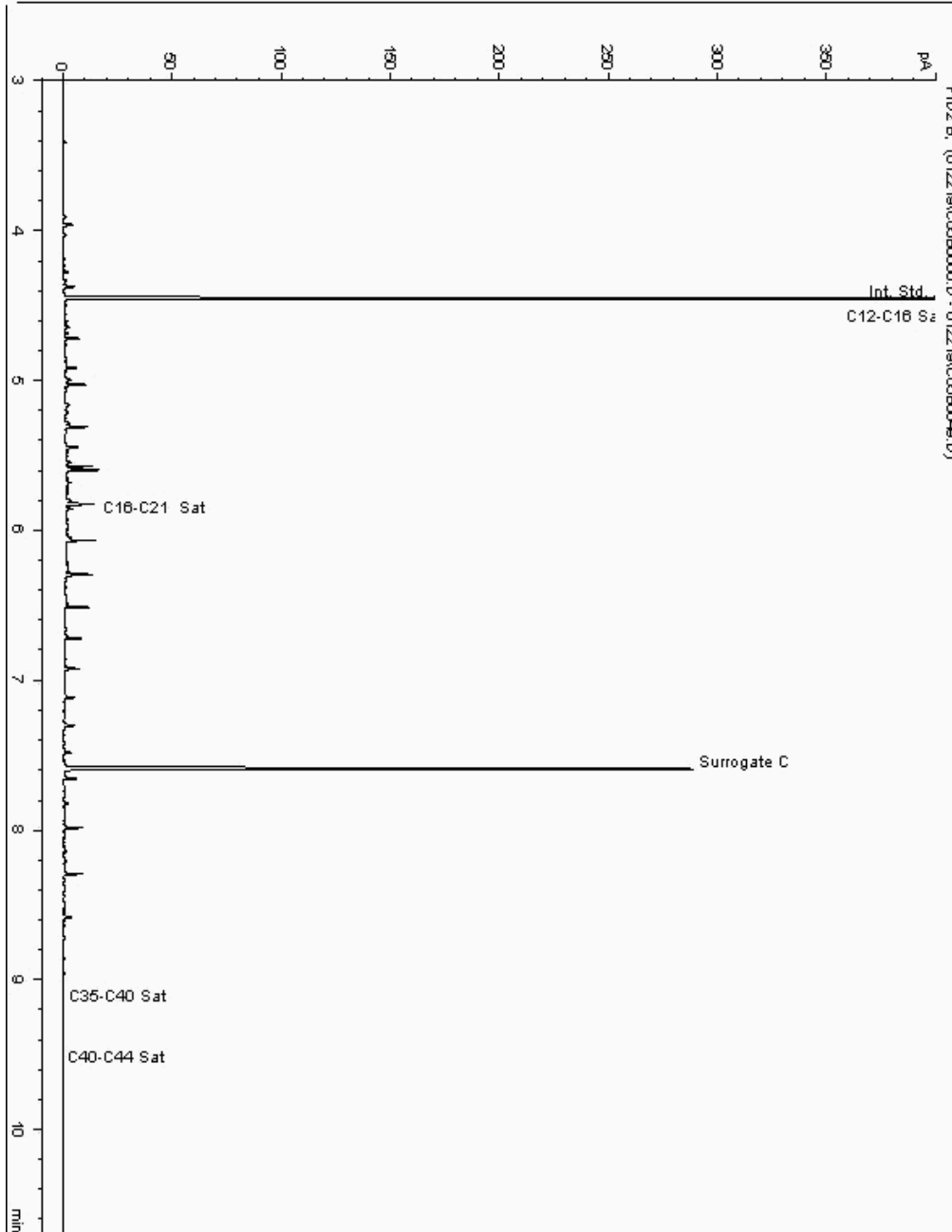
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19142175
Sample ID : BH232

Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977148-
Date Acquired : 23/01/2019 21:44:25 PM
Units : ppb
Dilution: BH232[3.00 - 4.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

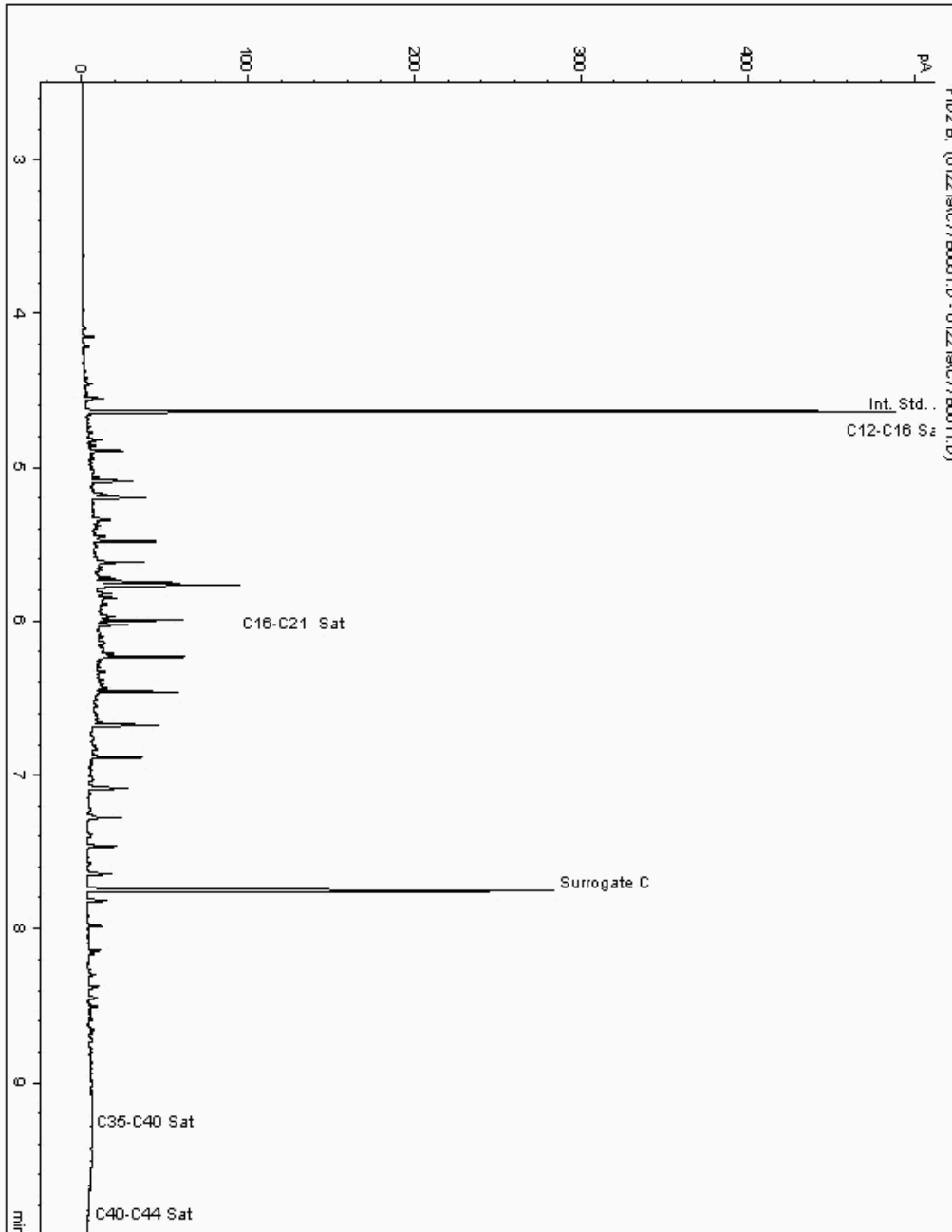
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19142419
Sample ID : BH232

Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977039-
Date Acquired : 1/23/2019 7:44:04 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

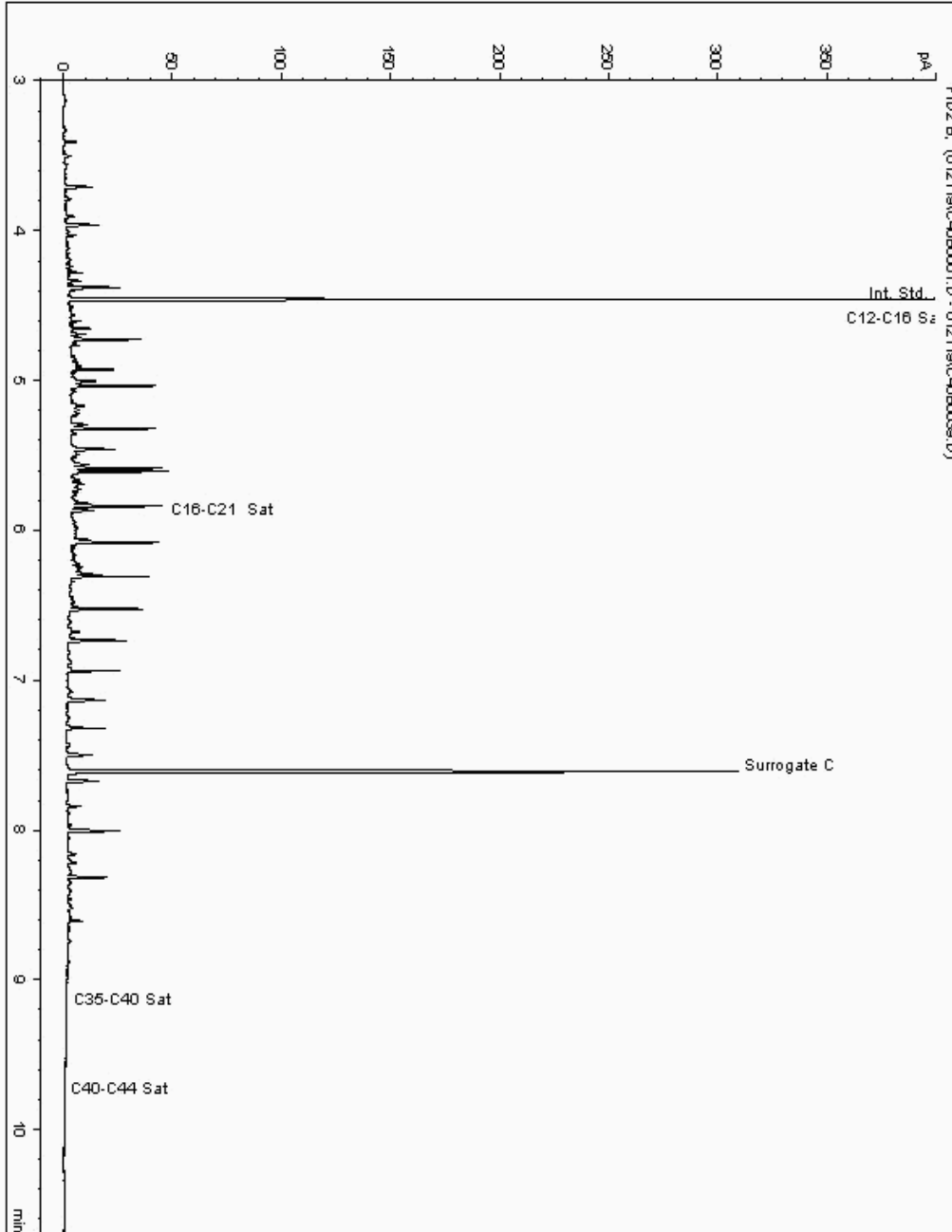
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19142655
Sample ID : BH232

Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977085-
Date Acquired : 22/01/2019 09:43:55 PM
Units : ppb
Dilution: BH232[1.00 - 2.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

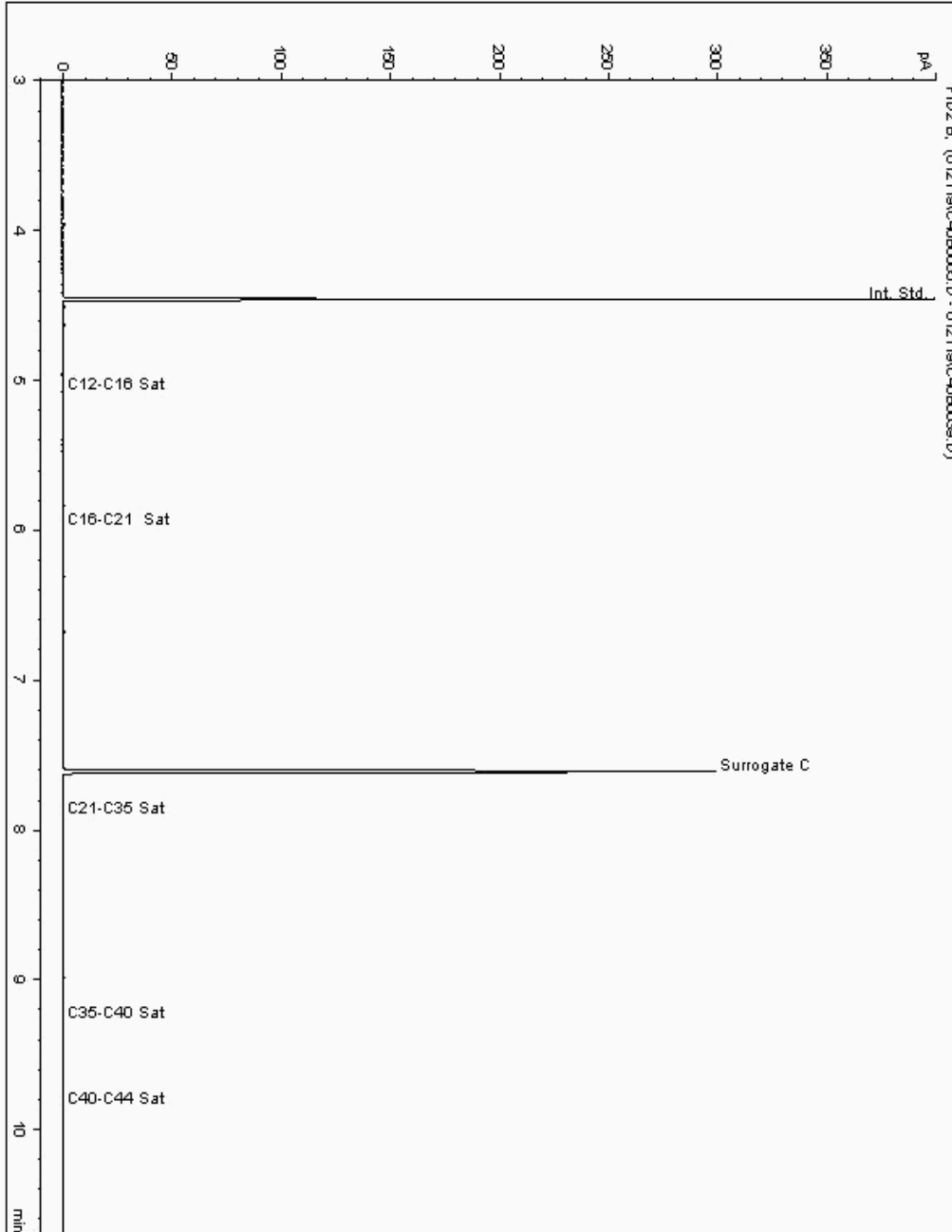
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19142732
Sample ID : BH232

Depth : 10.00 - 12.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977276-
Date Acquired : 22/01/2019 10:48:37 PM
Units : ppb
Dilution: BH232[10.00 - 12.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

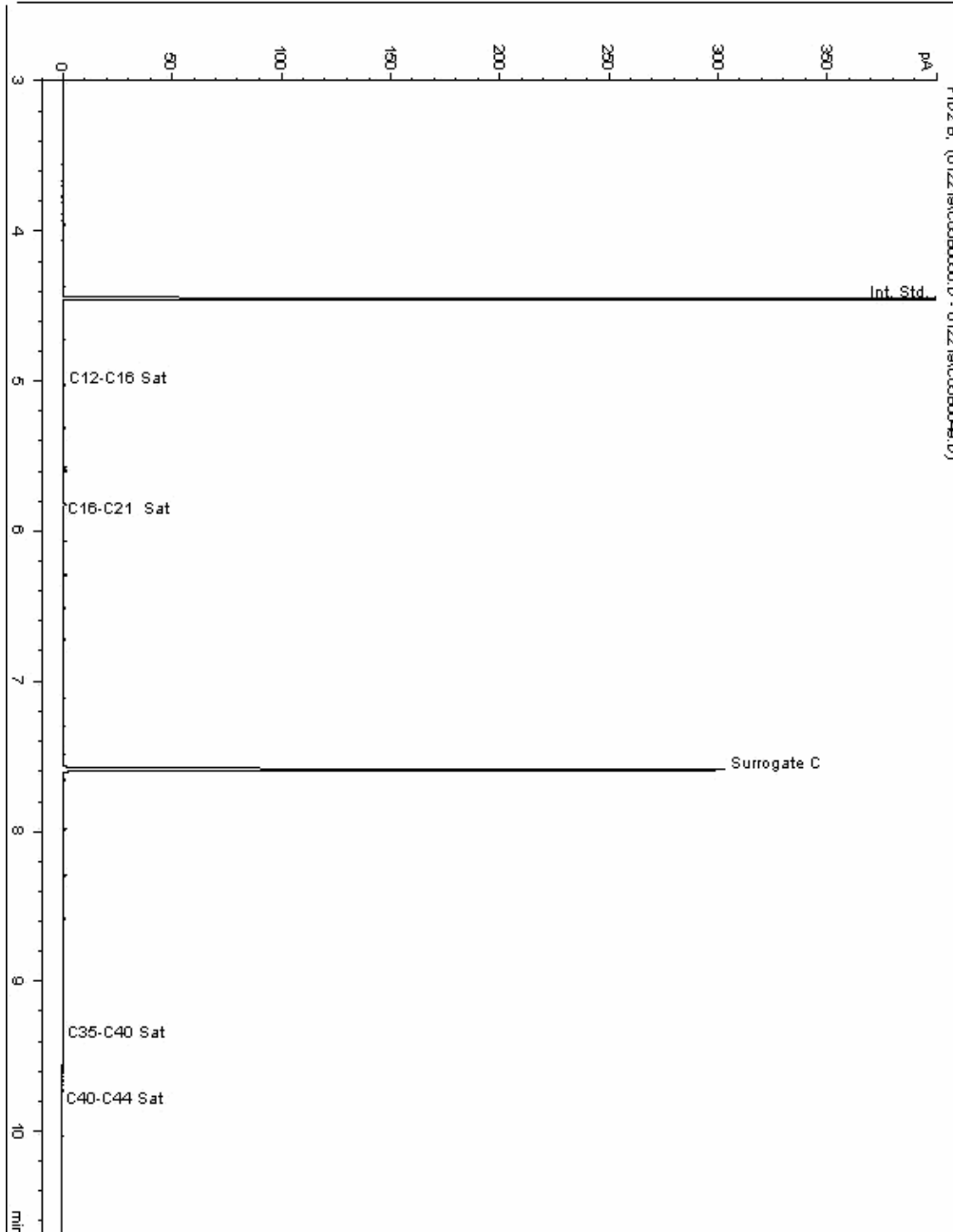
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19142948
Sample ID : BH232

Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977194-
Date Acquired : 23/01/2019 18:44:43 PM
Units : ppb
Dilution: BH232[5.00 - 6.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

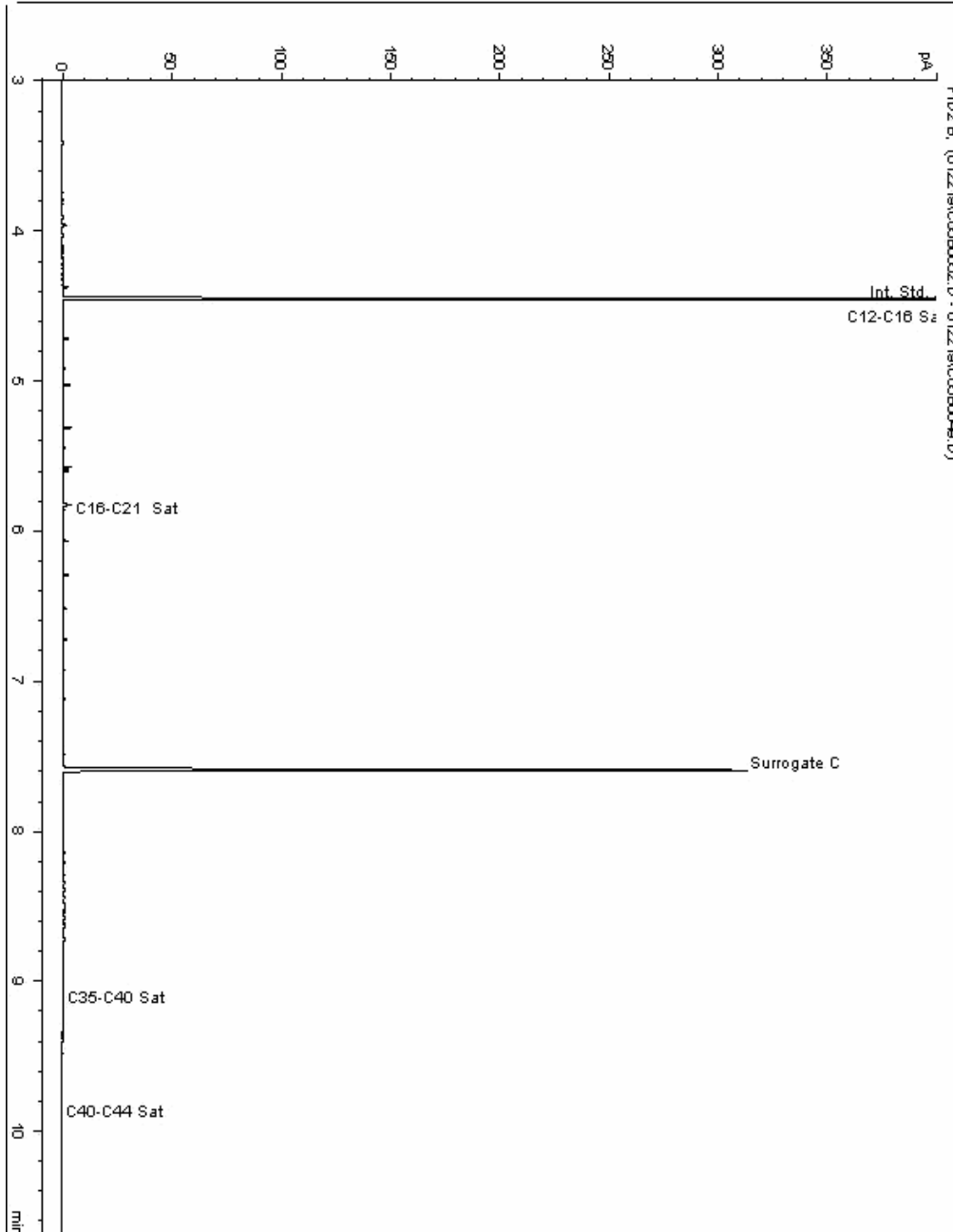
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143165
Sample ID : BH234

Depth : 12.00 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17978178-
Date Acquired : 23/01/2019 17:31:03 PM
Units : ppb
Dilution: BH234[12.00 - 13.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

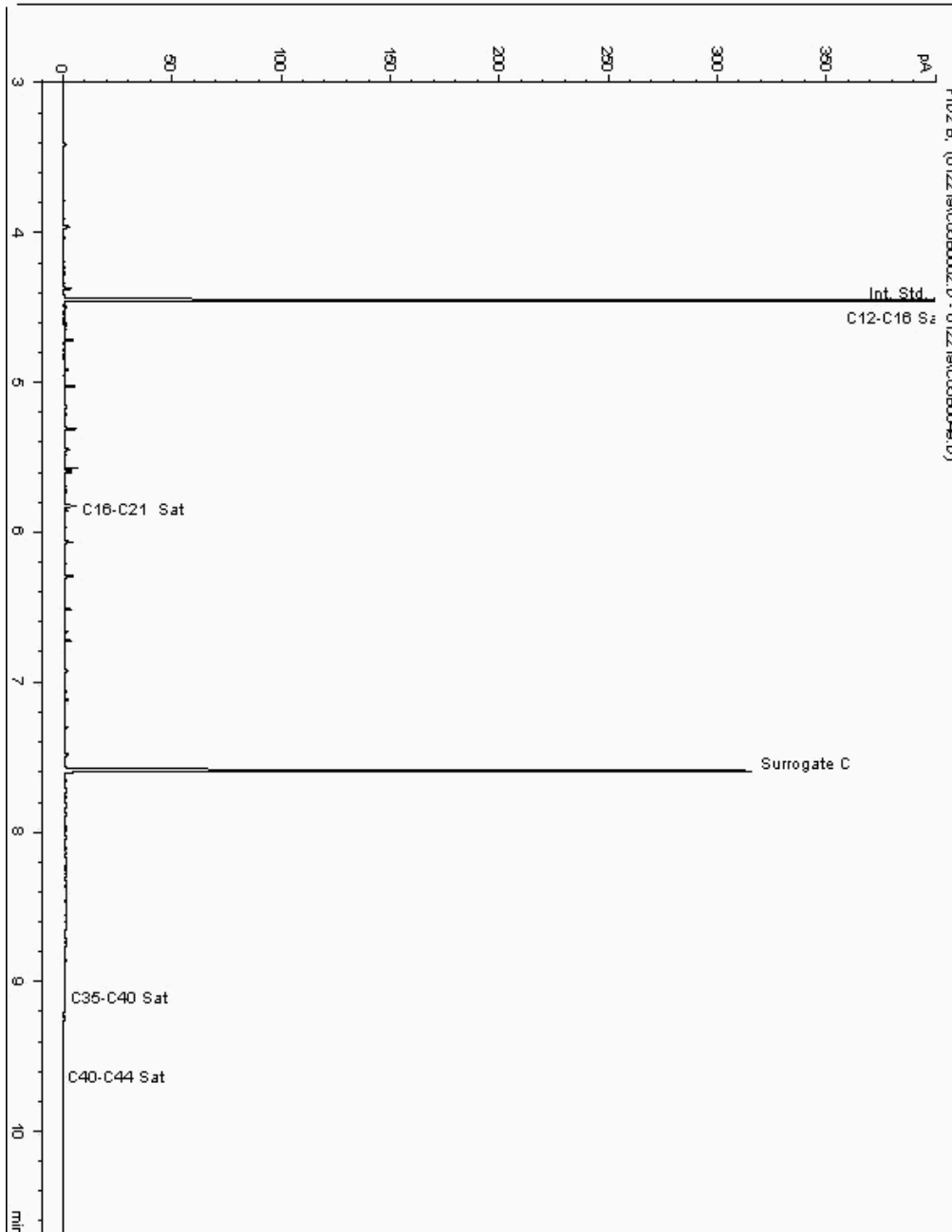
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143241
Sample ID : BH234

Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17978268-
Date Acquired : 23/01/2019 20:30:57 PM
Units : ppb
Dilution: BH234[16.00 - 17.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

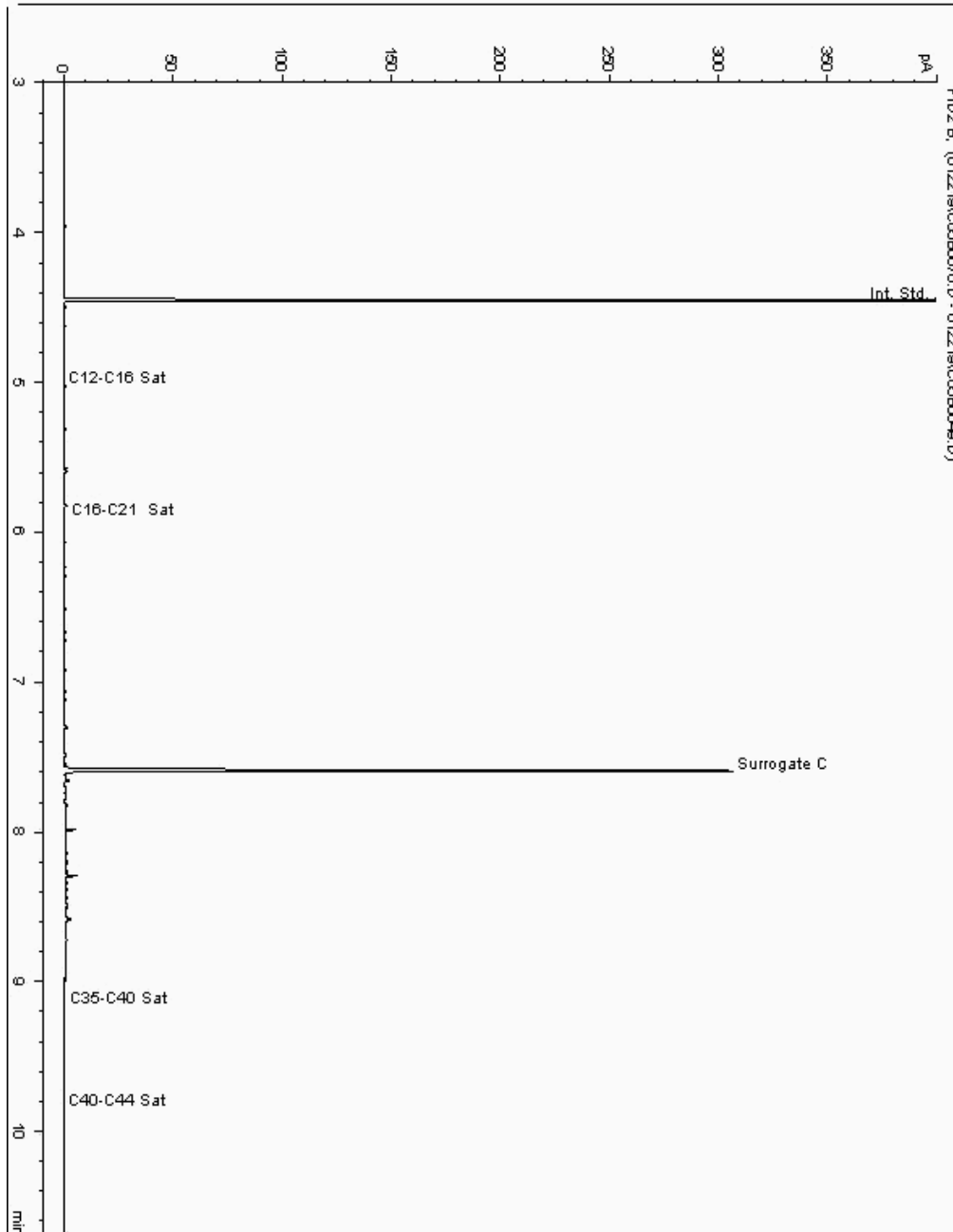
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143343
Sample ID : BH233

Depth : 5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977529-
Date Acquired : 23/01/2019 22:49:45 PM
Units : ppb
Dilution: BH233[5.00 - 6.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

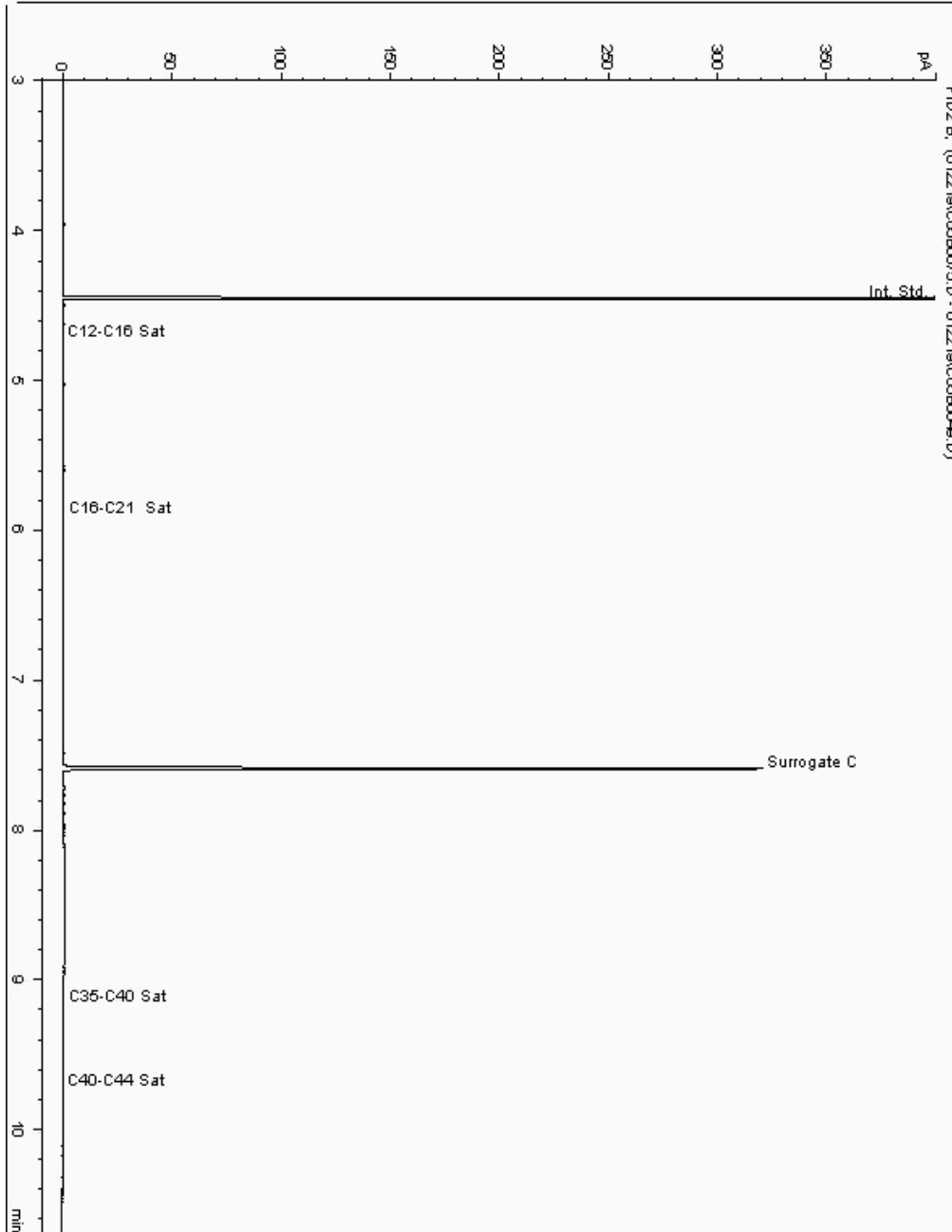
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143387
Sample ID : BH234

Depth : 8.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17978093-
Date Acquired : 24/01/2019 00:23:31 PM
Units : ppb
Dilution: BH234[8.00 - 10.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

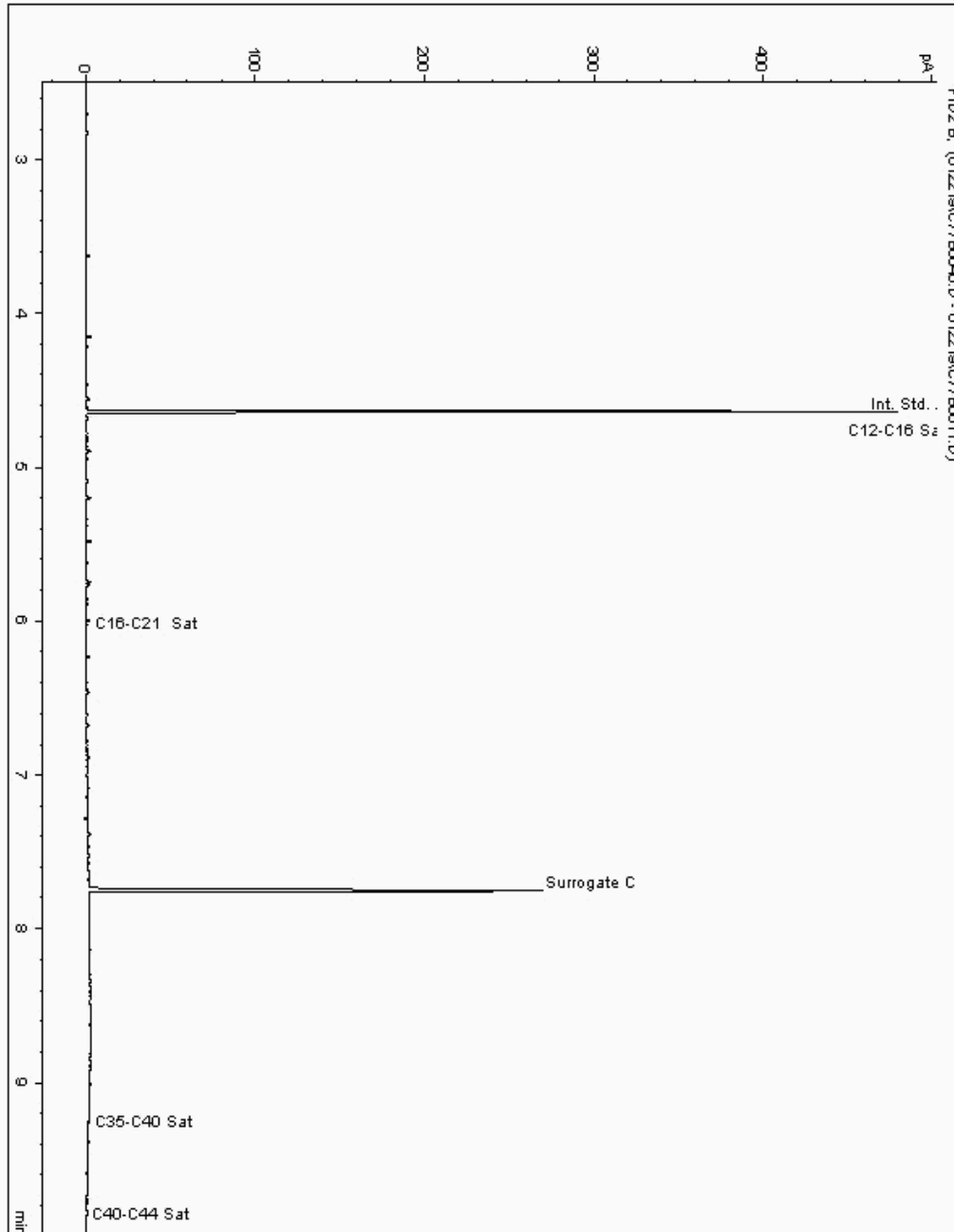
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143538
Sample ID : BH234

Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17978213-
Date Acquired : 1/23/2019 5:52:03 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

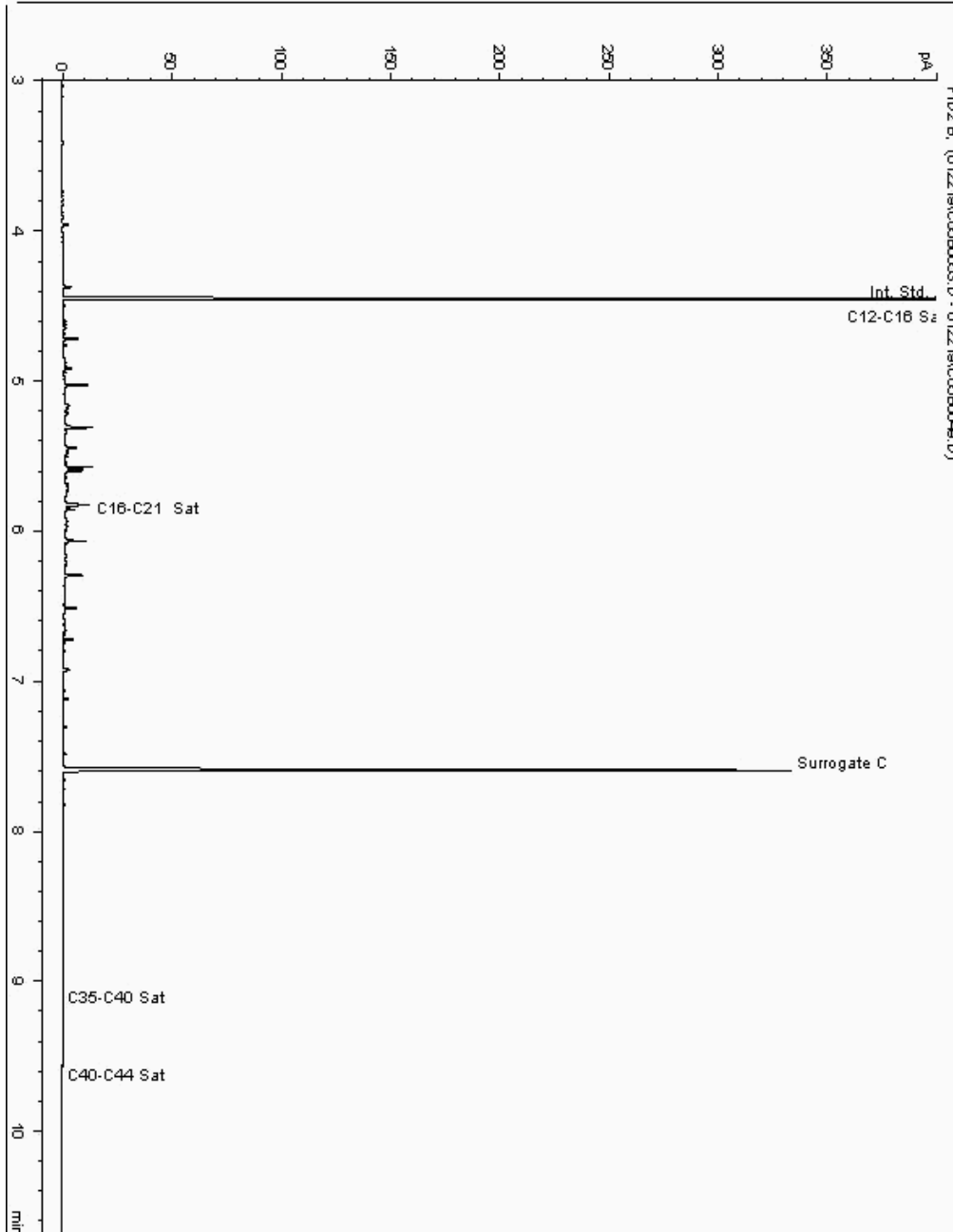
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143612
Sample ID : BH234

Depth : 0.80 - 1.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977713-
Date Acquired : 23/01/2019 17:51:33 PM
Units : ppb
Dilution: BH234[0.80 - 1.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

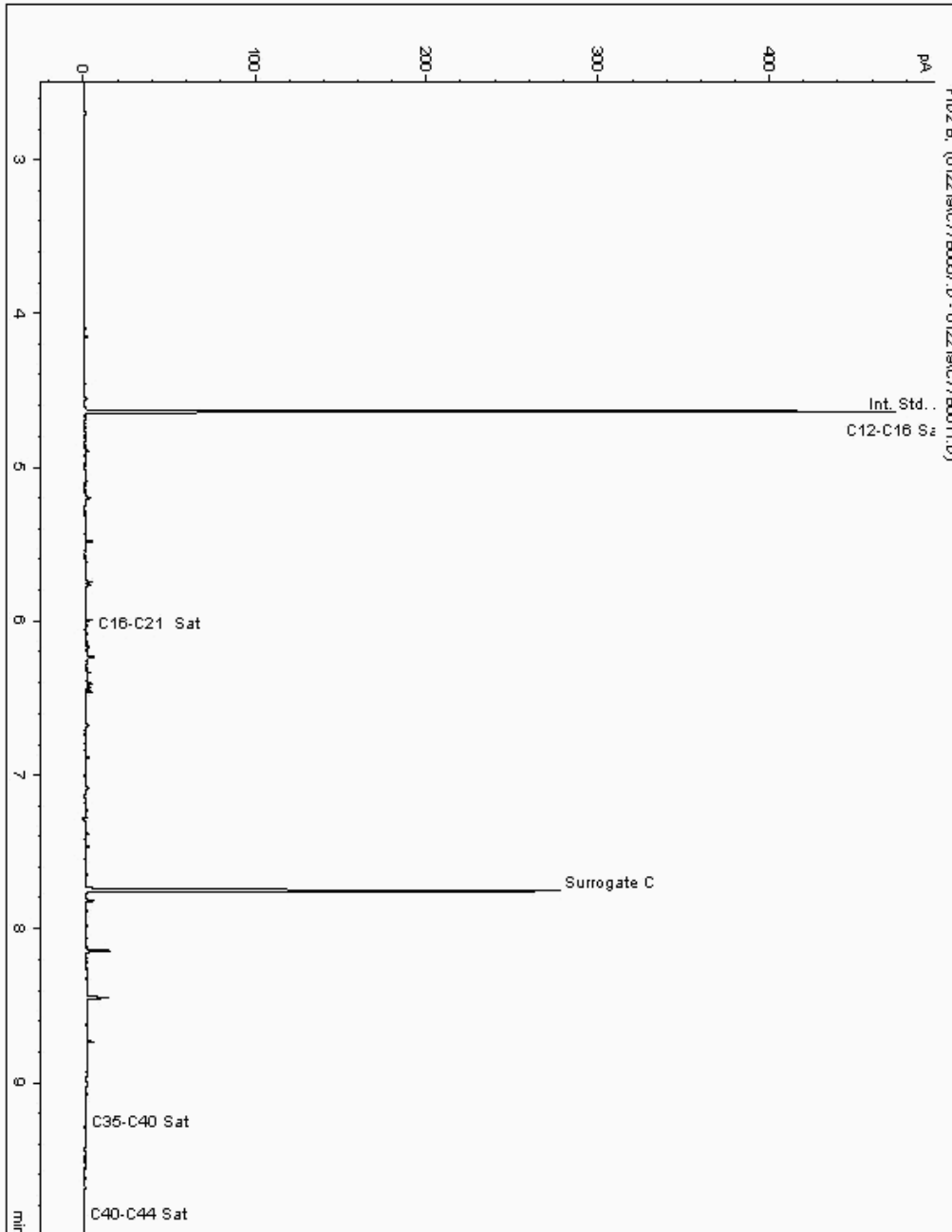
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143752
Sample ID : BH234

Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977815-
Date Acquired : 1/23/2019 9:19:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

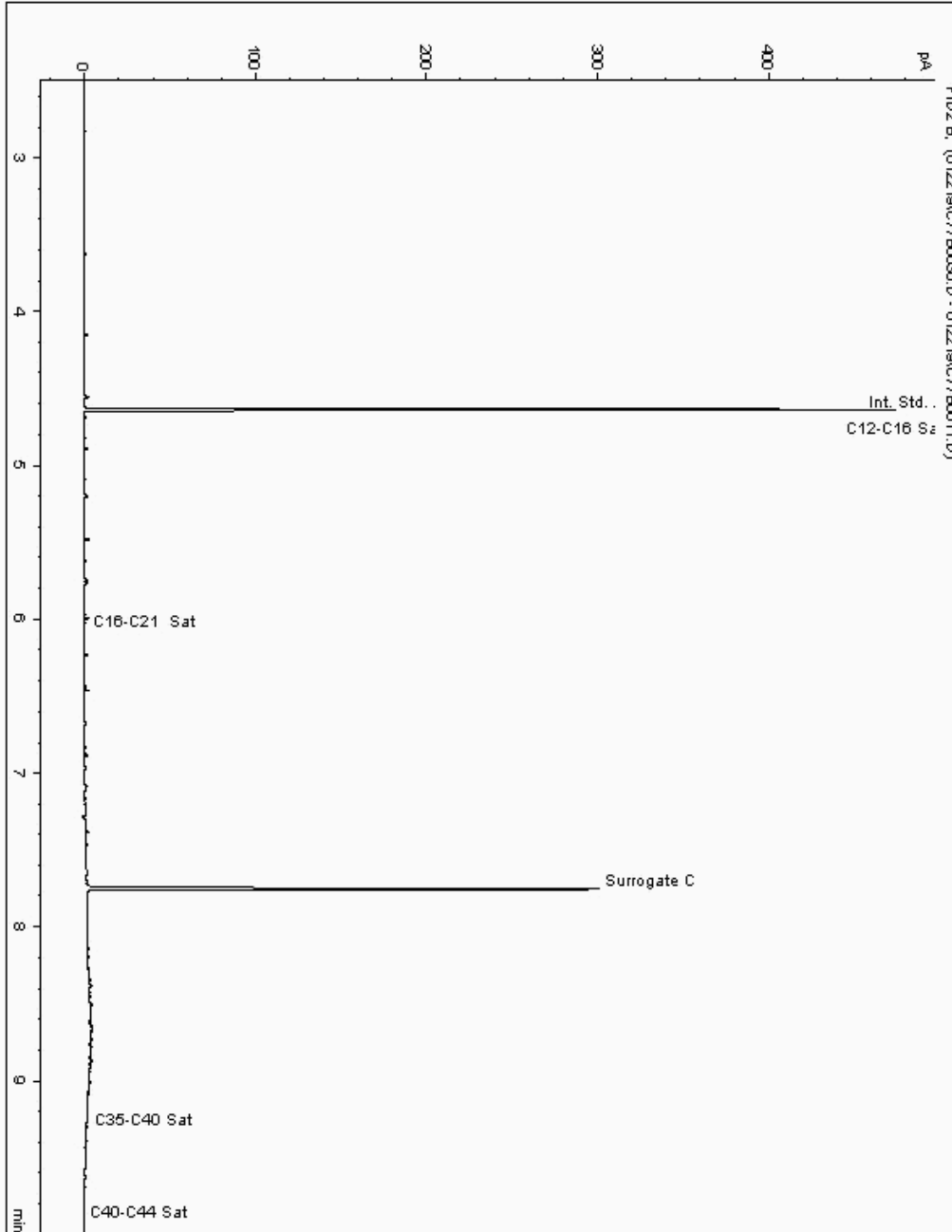
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143859
Sample ID : BH233

Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977658-
Date Acquired : 1/22/2019 8:28:32 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

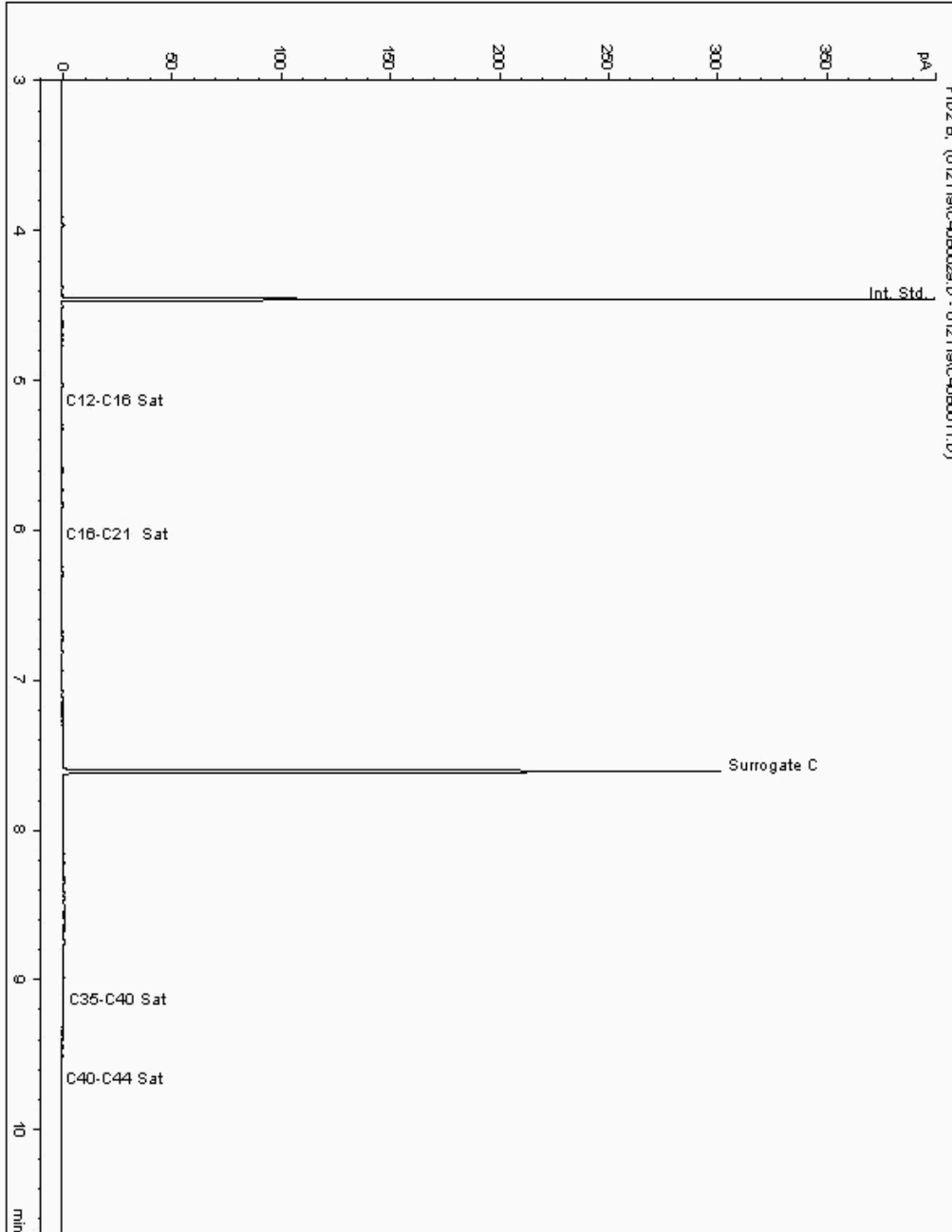
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143899
Sample ID : BH233

Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977557-
Date Acquired : 21/01/2019 23:48:19 PM
Units : ppb
Dilution: BH233[8.00 - 9.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

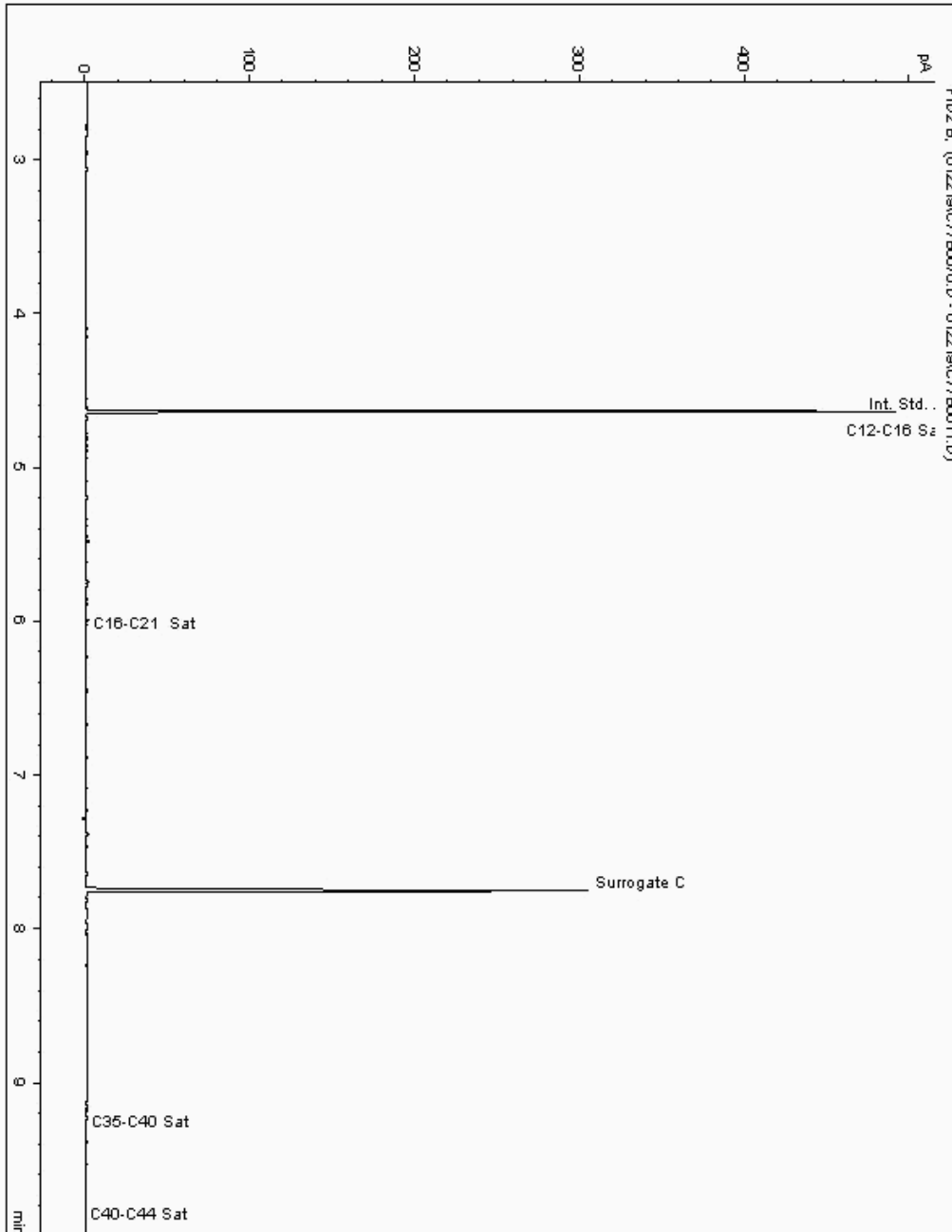
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19143976
Sample ID : BH234

Depth : 5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977956-
Date Acquired : 1/24/2019 12:50:51 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

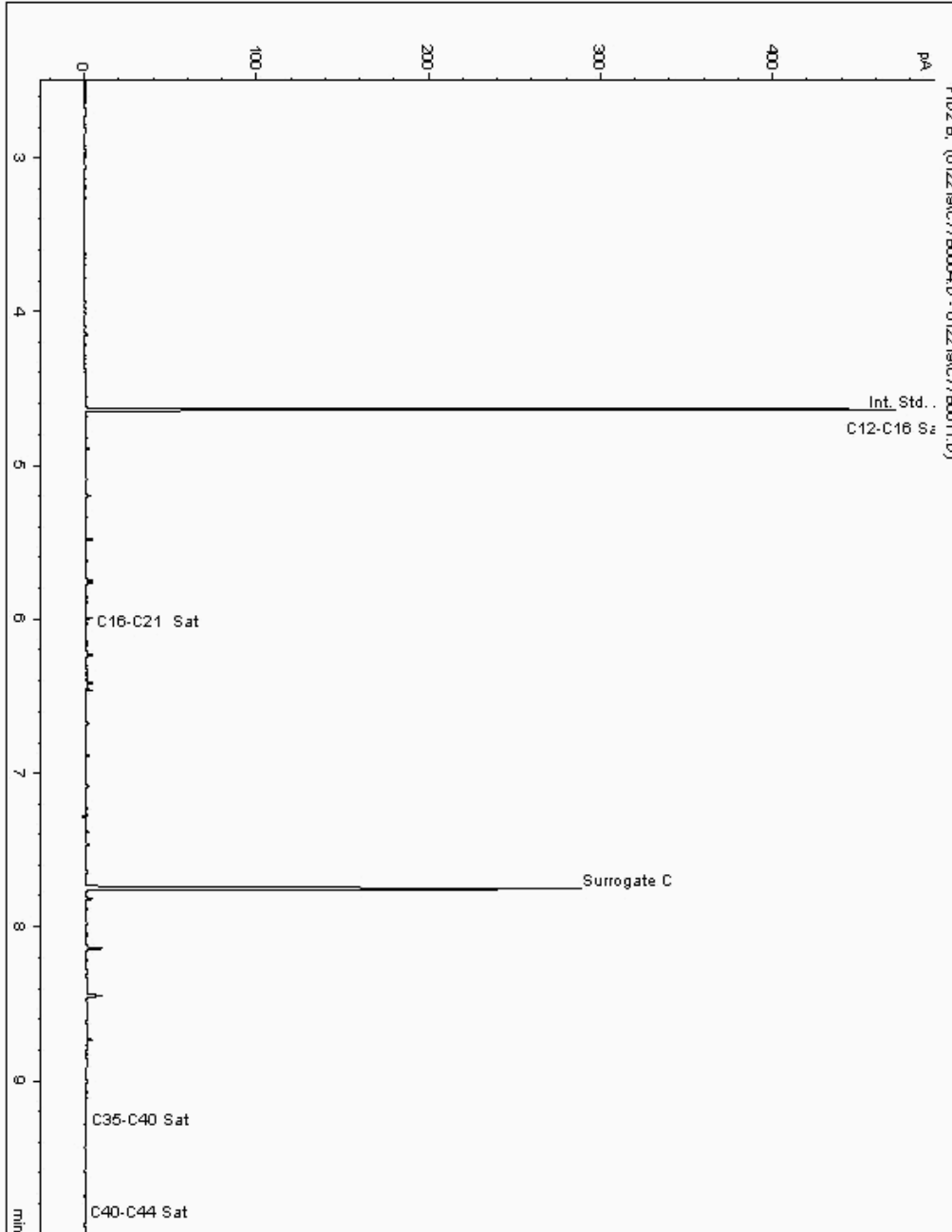
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19144027
Sample ID : BH234

Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977884-
Date Acquired : 1/23/2019 11:15:16 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

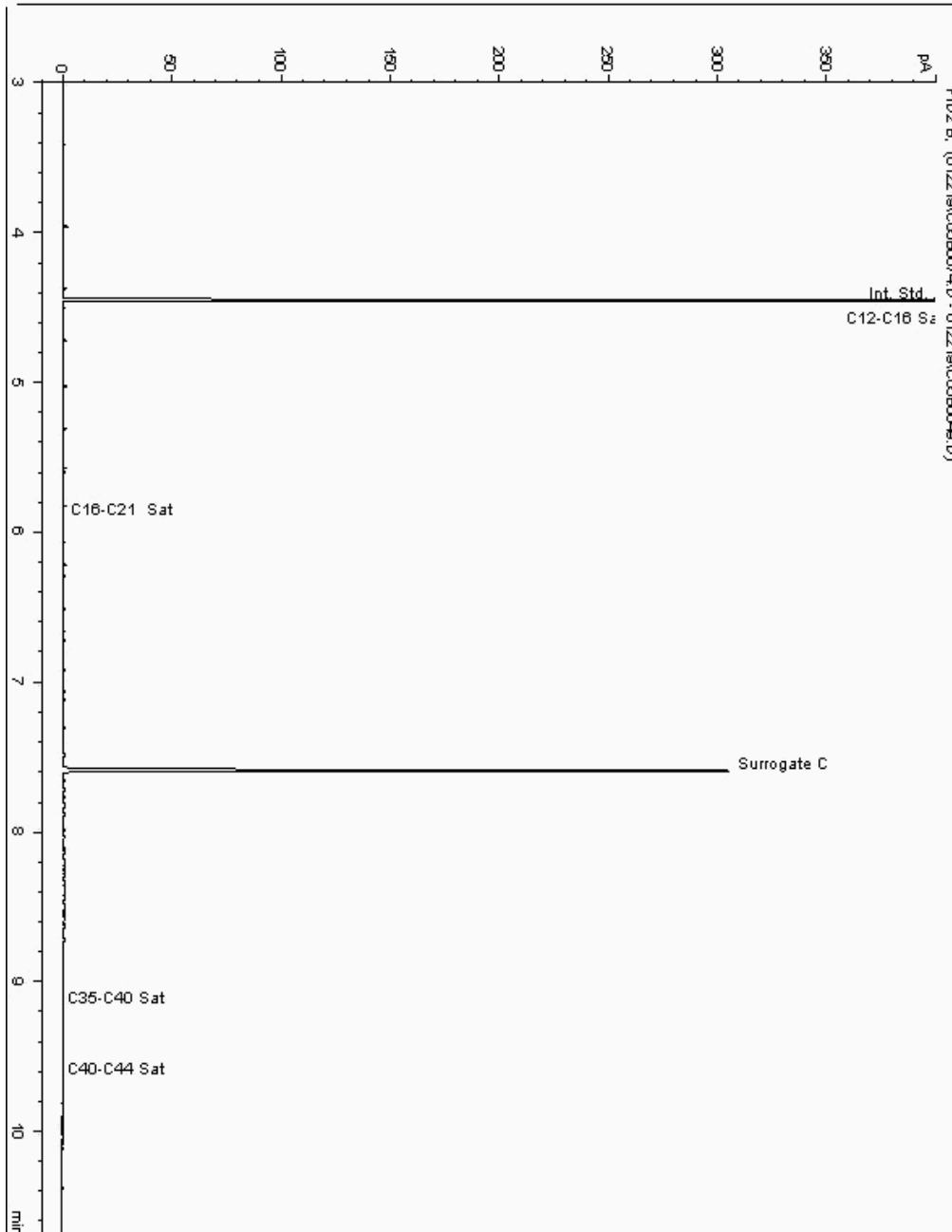
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19144088
Sample ID : BH233

Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977687-
Date Acquired : 24/01/2019 00:03:08 PM
Units : ppb
Dilution: BH233[16.00 - 17.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

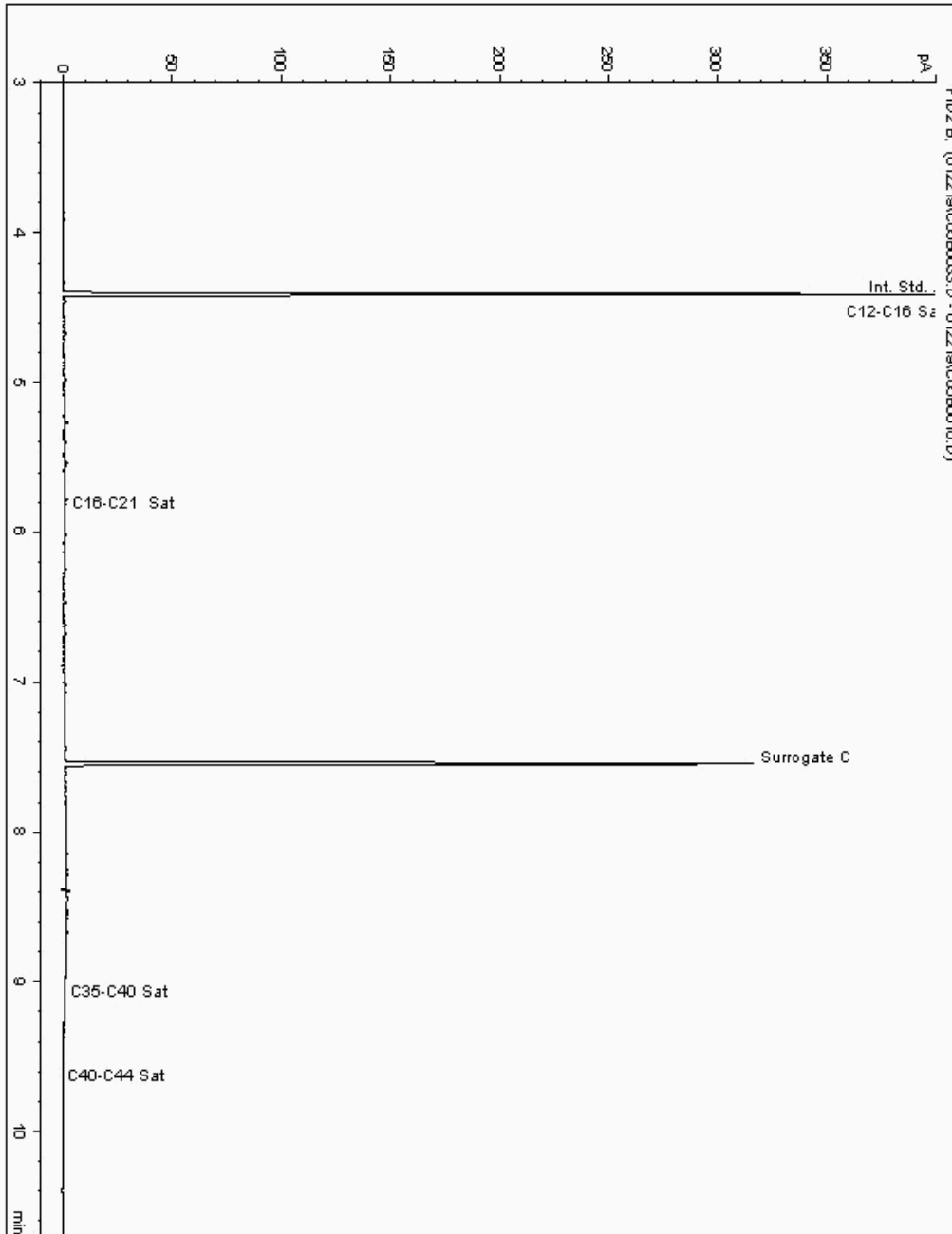
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19148838
Sample ID : BH234

Depth : 7.00 - 8.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17978021-
Date Acquired : 22/01/2019 19:59:31 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

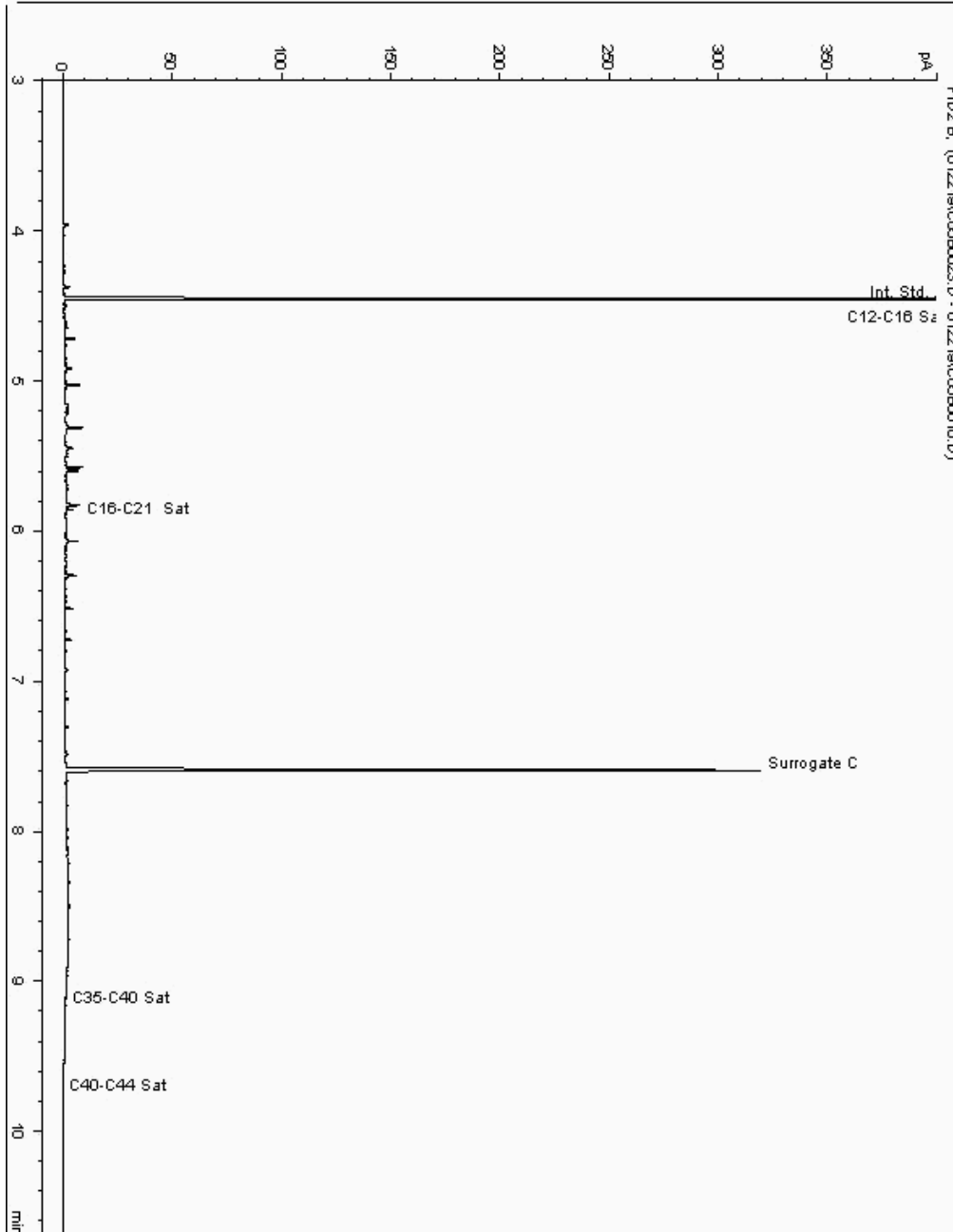
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19148989
Sample ID : BH234

Depth : 2.00 - 3.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977761-
Date Acquired : 22/01/2019 18:14:00 PM
Units : ppb
Dilution: BH234[2.00 - 3.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

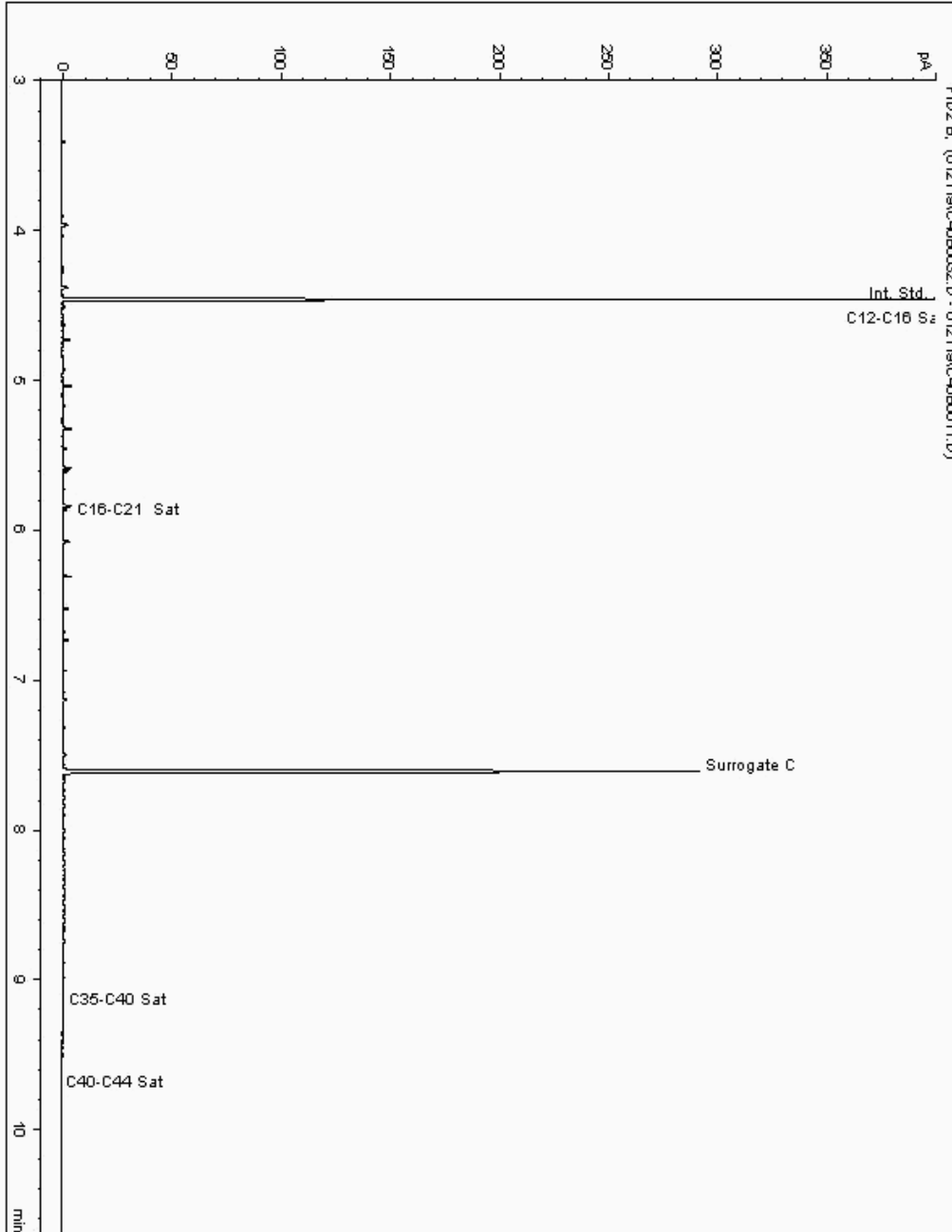
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19149162
Sample ID : BH234

Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17978237-
Date Acquired : 22/01/2019 00:49:15 PM
Units : ppb
Dilution: BH234[15.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

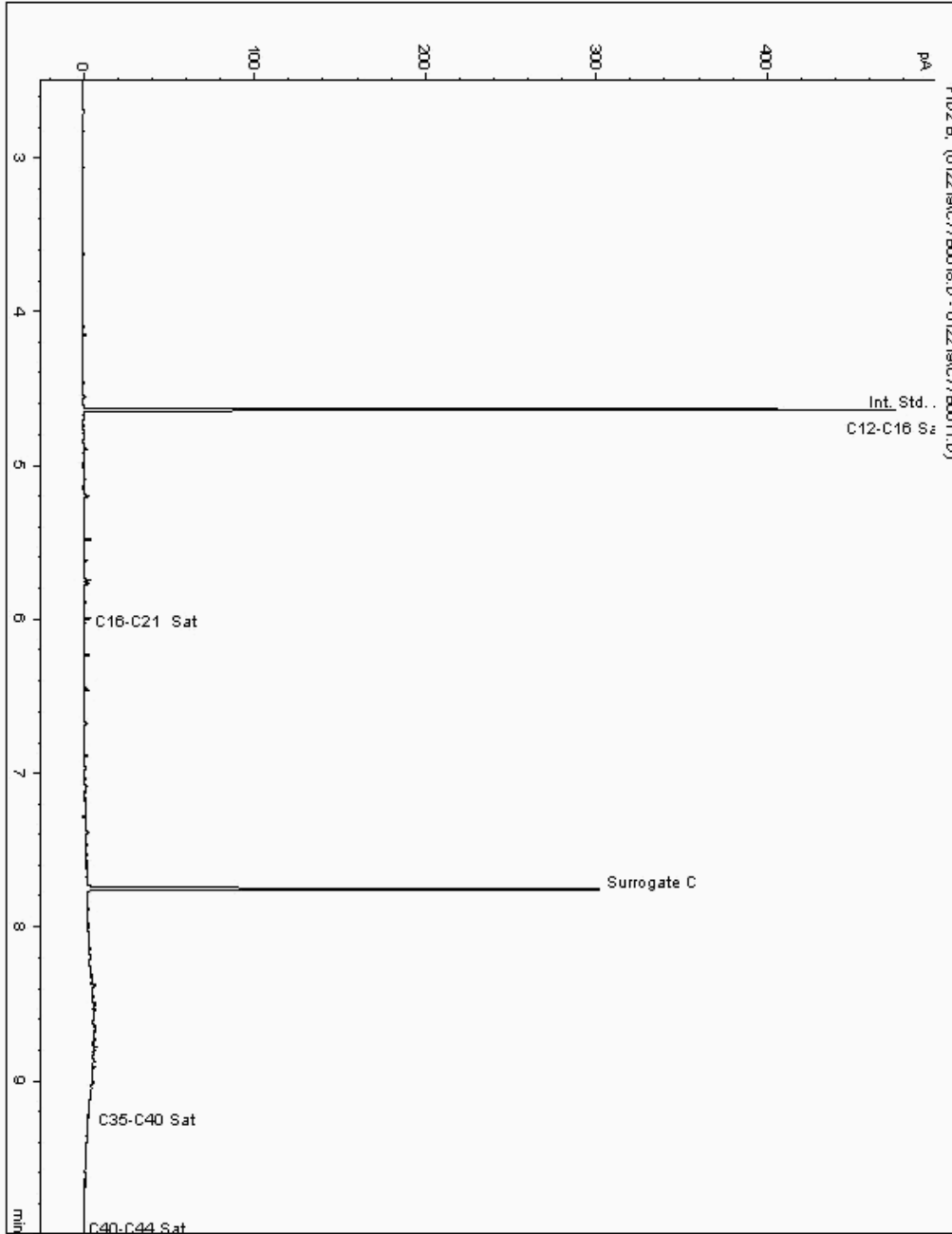
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19149300
Sample ID : BH234

Depth : 1.20 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977738-
Date Acquired : 1/22/2019 4:28:20 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

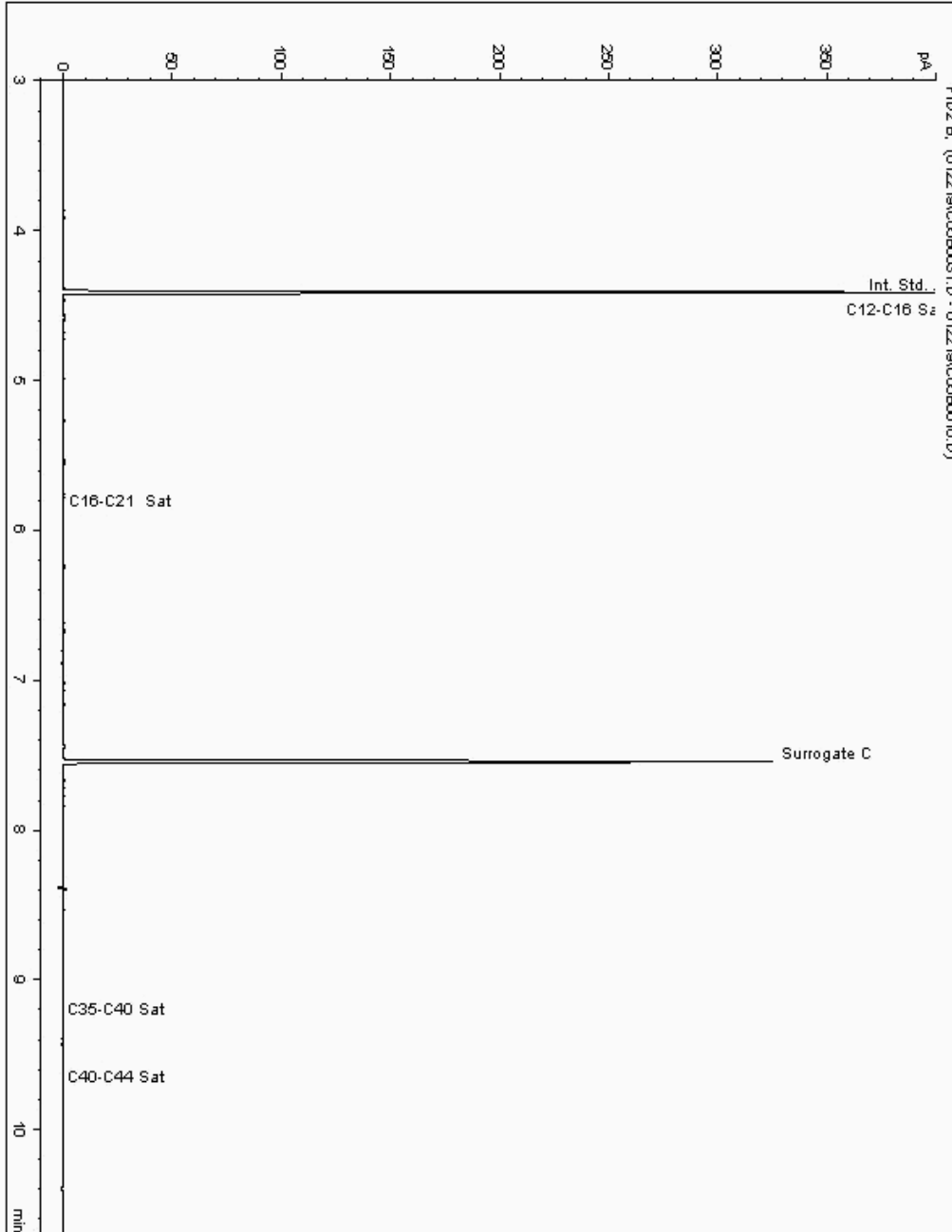
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19153765
Sample ID : BH233

Depth : 9.50 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977580-
Date Acquired : 22/01/2019 19:19:04 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

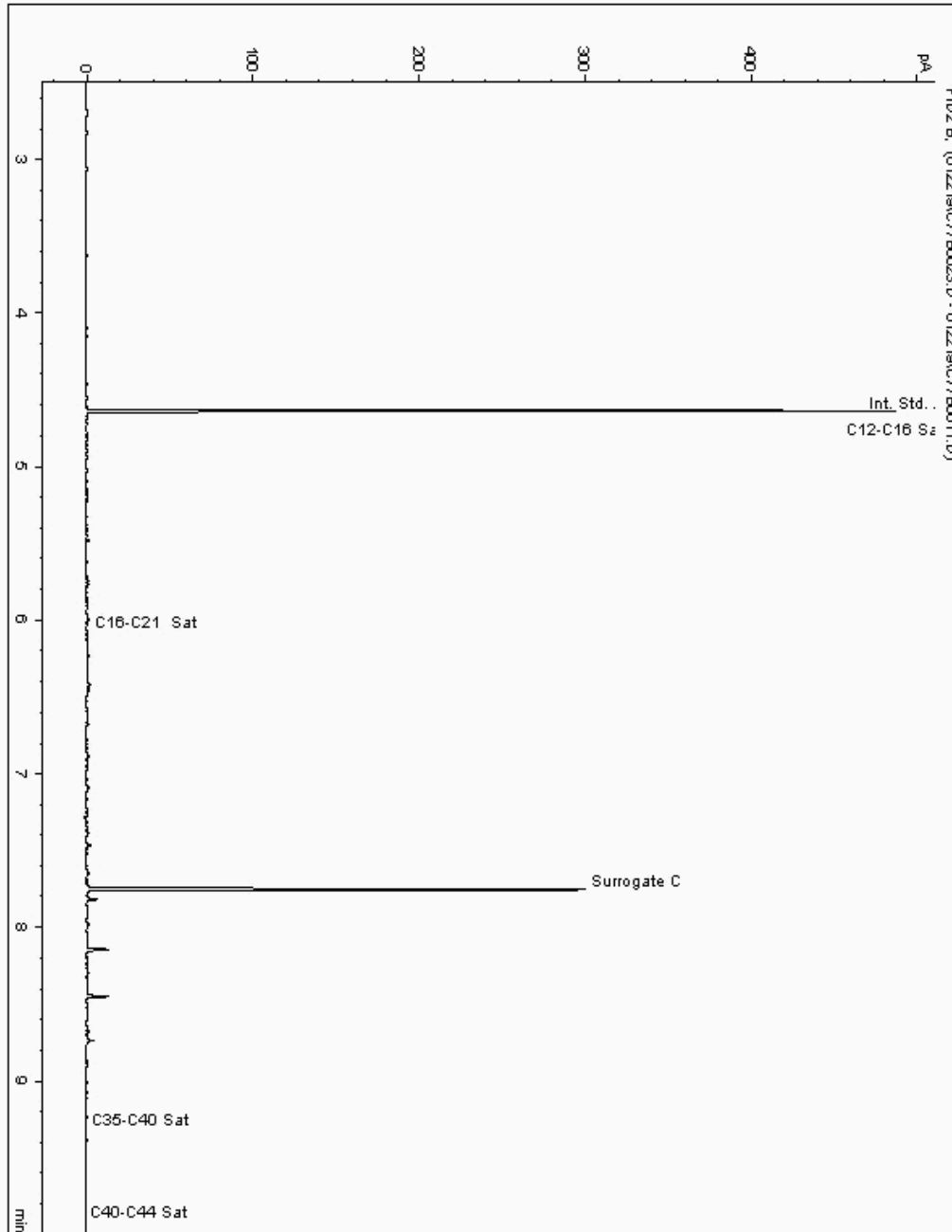
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19153813
Sample ID : BH233

Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977436-
Date Acquired : 1/22/2019 6:08:25 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

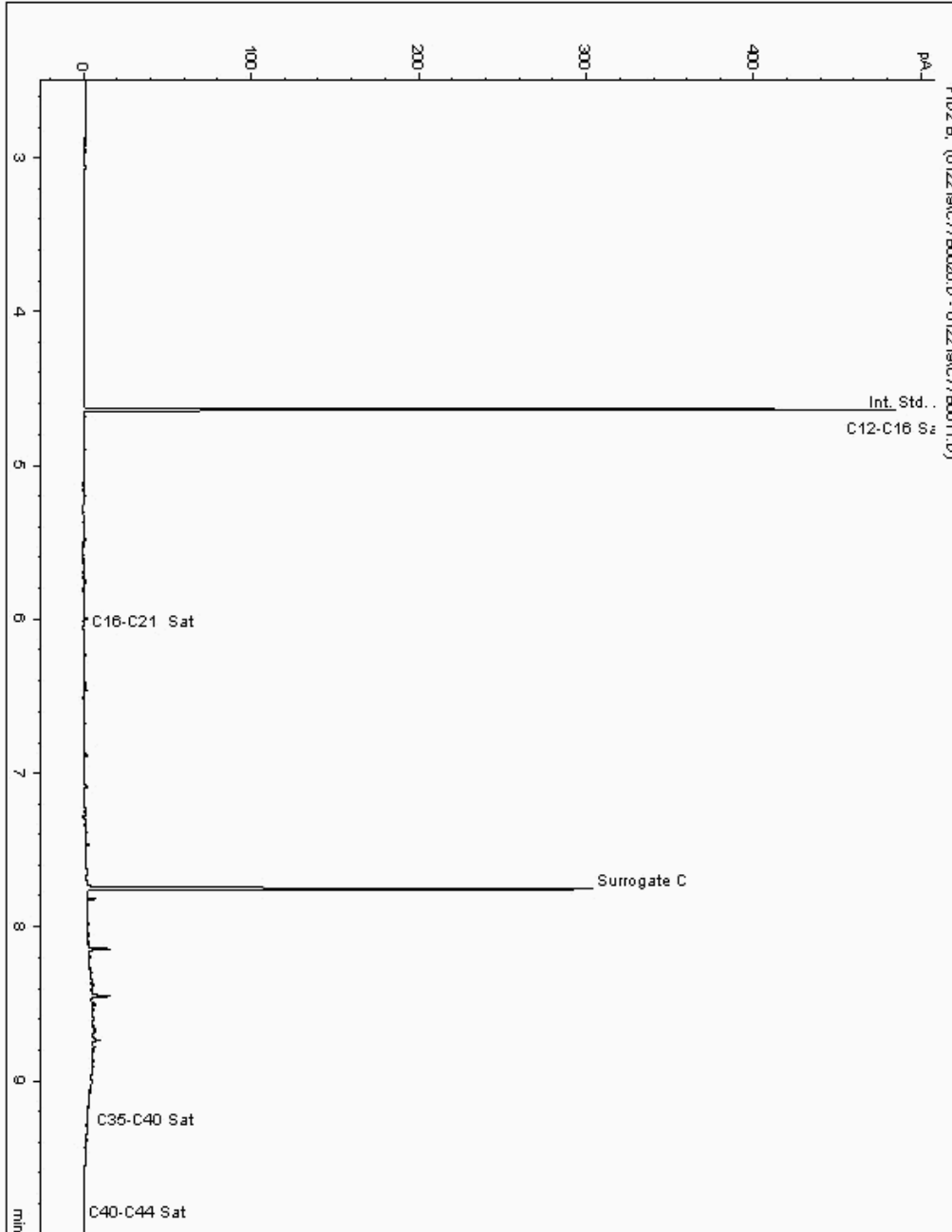
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19153869
Sample ID : BH233

Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977464-
Date Acquired : 1/22/2019 7:08:27 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

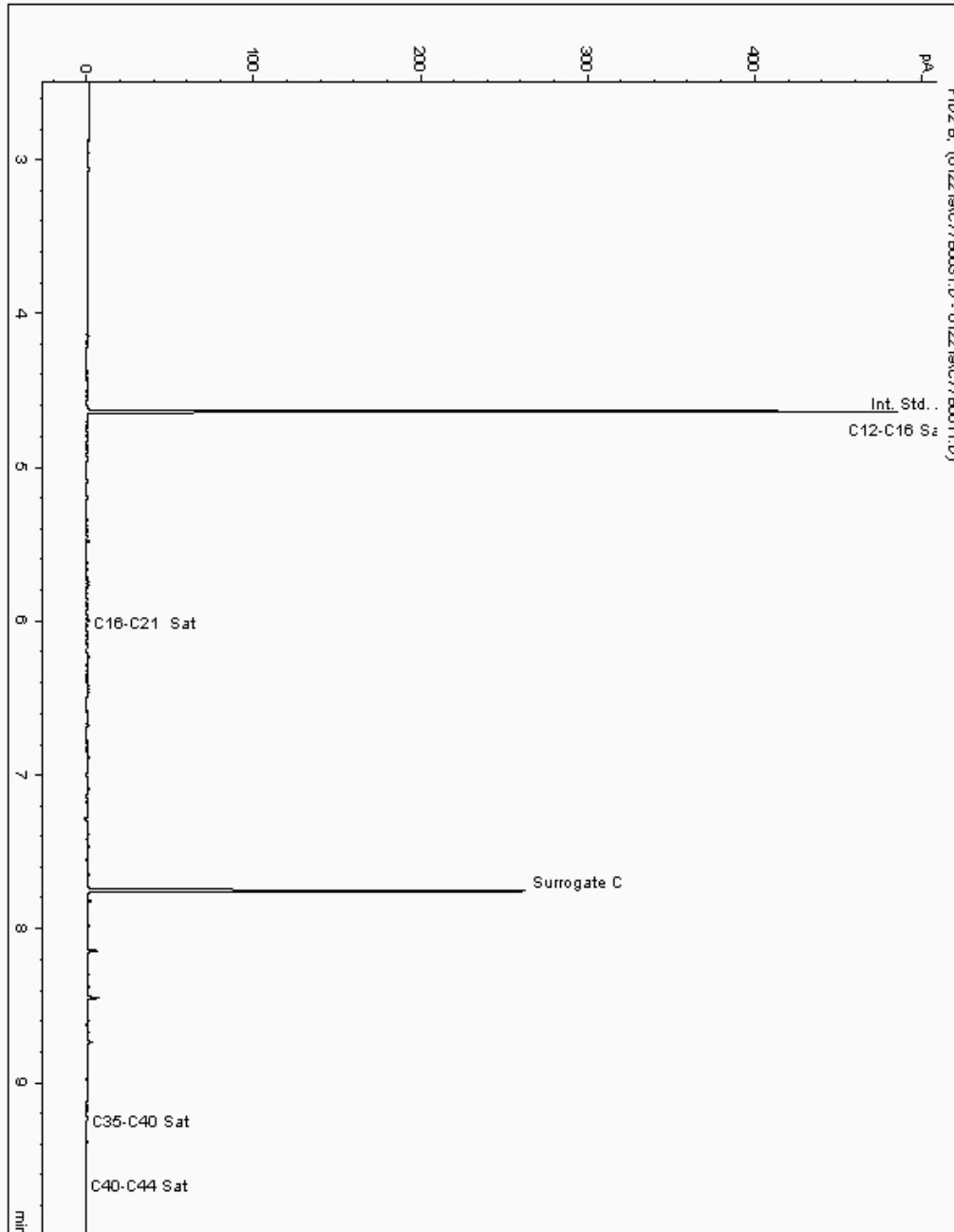
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19153913
Sample ID : BH233

Depth : 0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977410-
Date Acquired : 1/22/2019 8:48:35 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

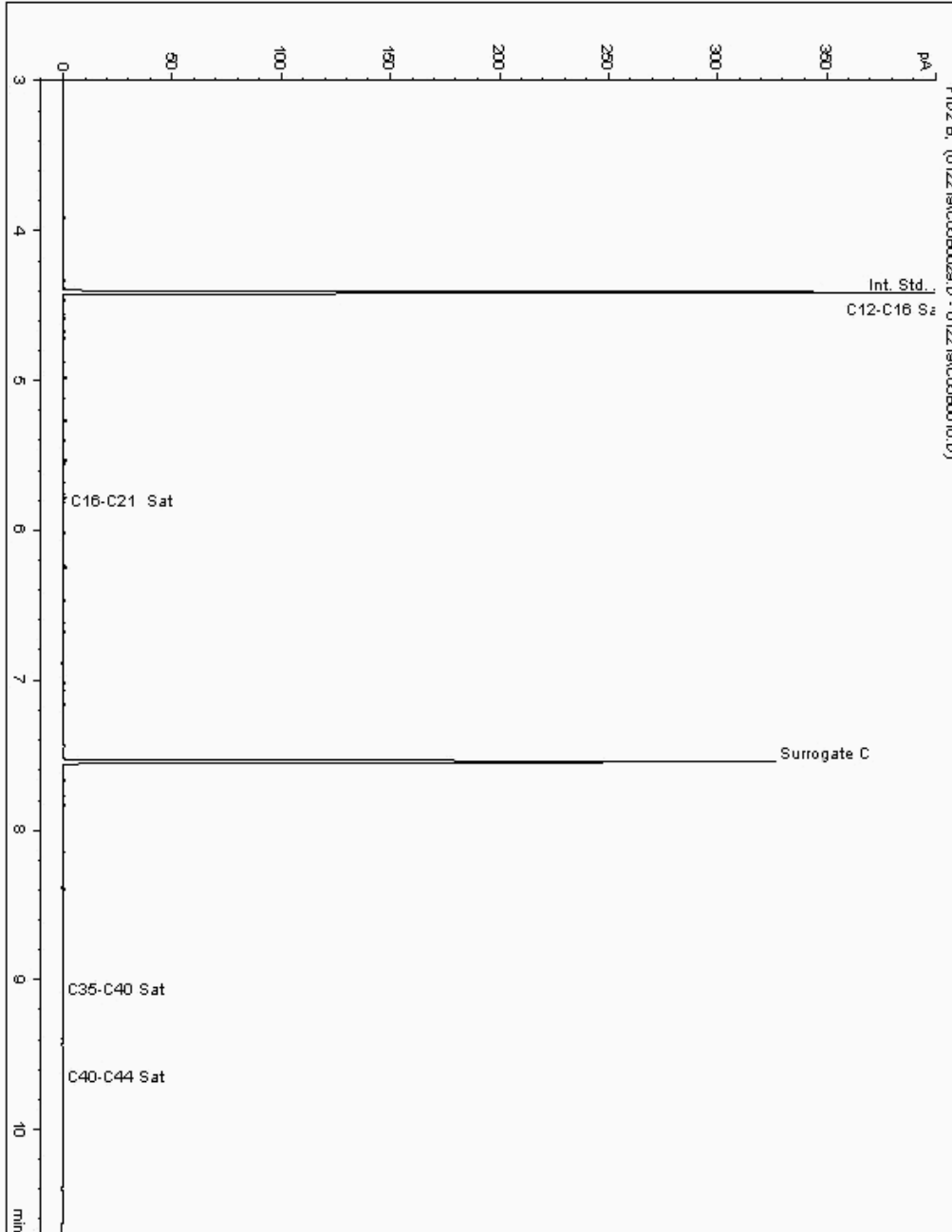
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19153950
Sample ID : BH233

Depth : 11.00 - 12.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977604-
Date Acquired : 22/01/2019 18:38:48 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

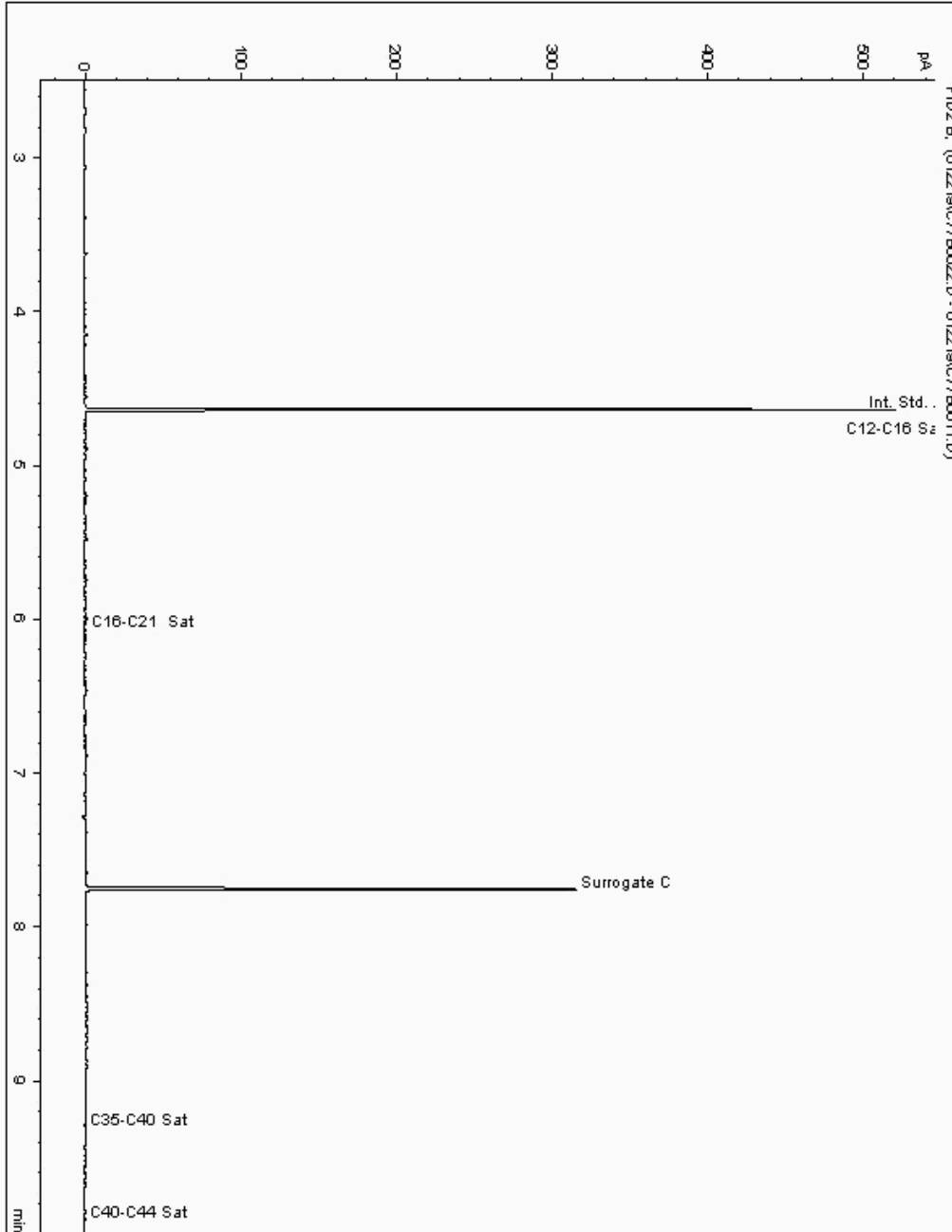
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19153990
Sample ID : BH232

Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977303-
Date Acquired : 1/22/2019 5:48:25 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

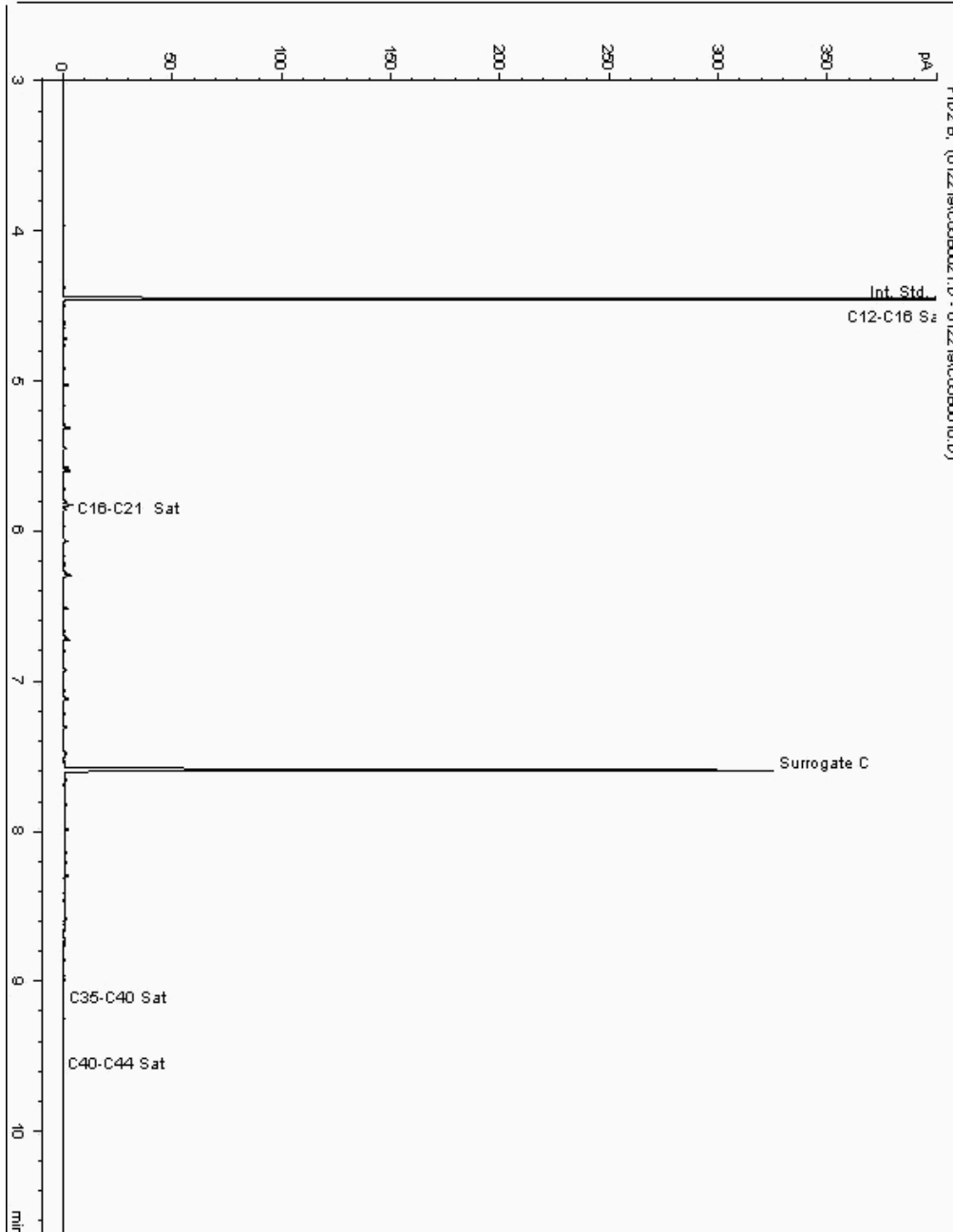
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19154041
Sample ID : BH233

Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977374-
Date Acquired : 22/01/2019 17:41:06 PM
Units : ppb
Dilution: BH233[0.00 - 0.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

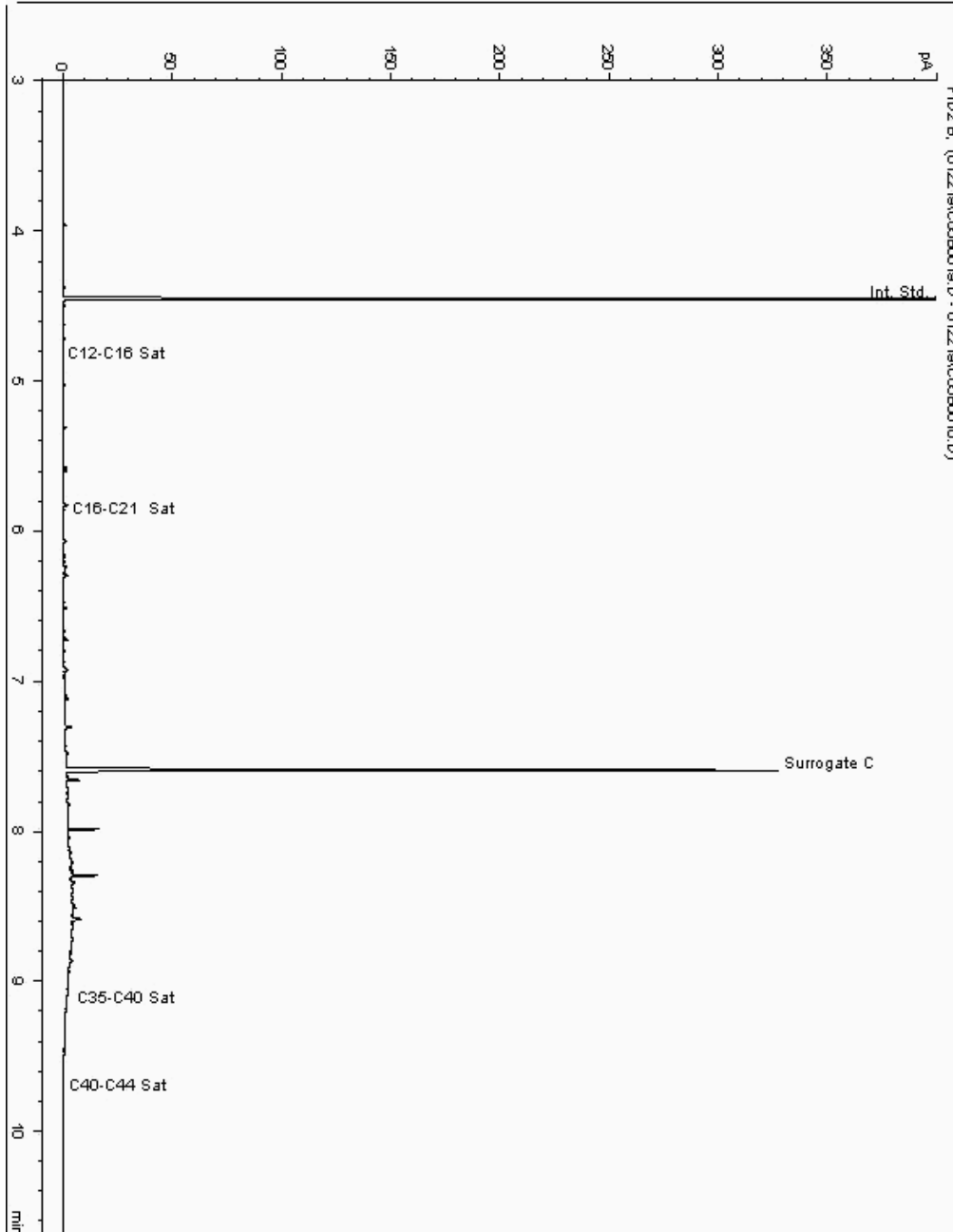
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19154076
Sample ID : BH233

Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977506-
Date Acquired : 22/01/2019 17:08:19 PM
Units : ppb
Dilution: BH233[3.00 - 4.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

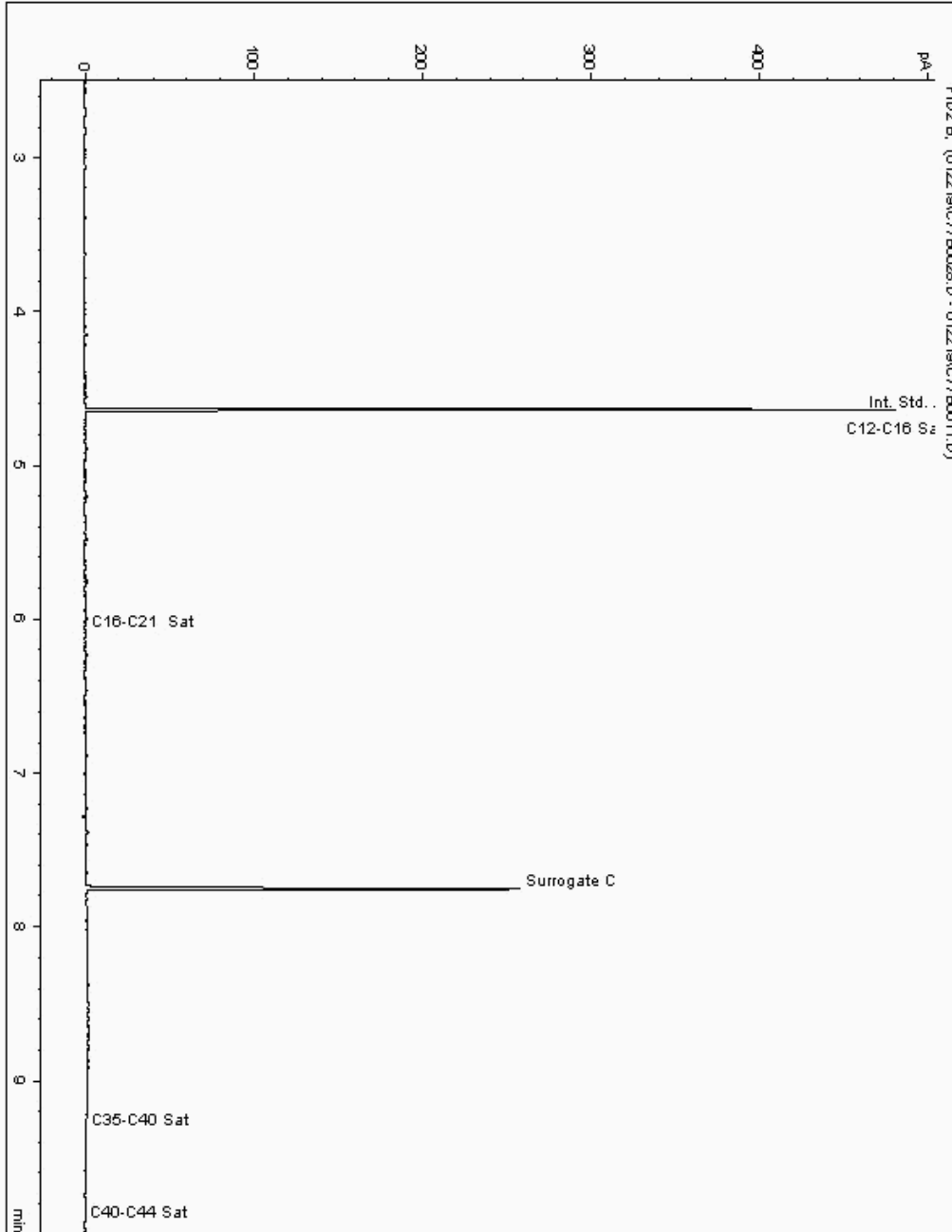
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19154137
Sample ID : BH232

Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977329-
Date Acquired : 1/22/2019 7:48:26 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

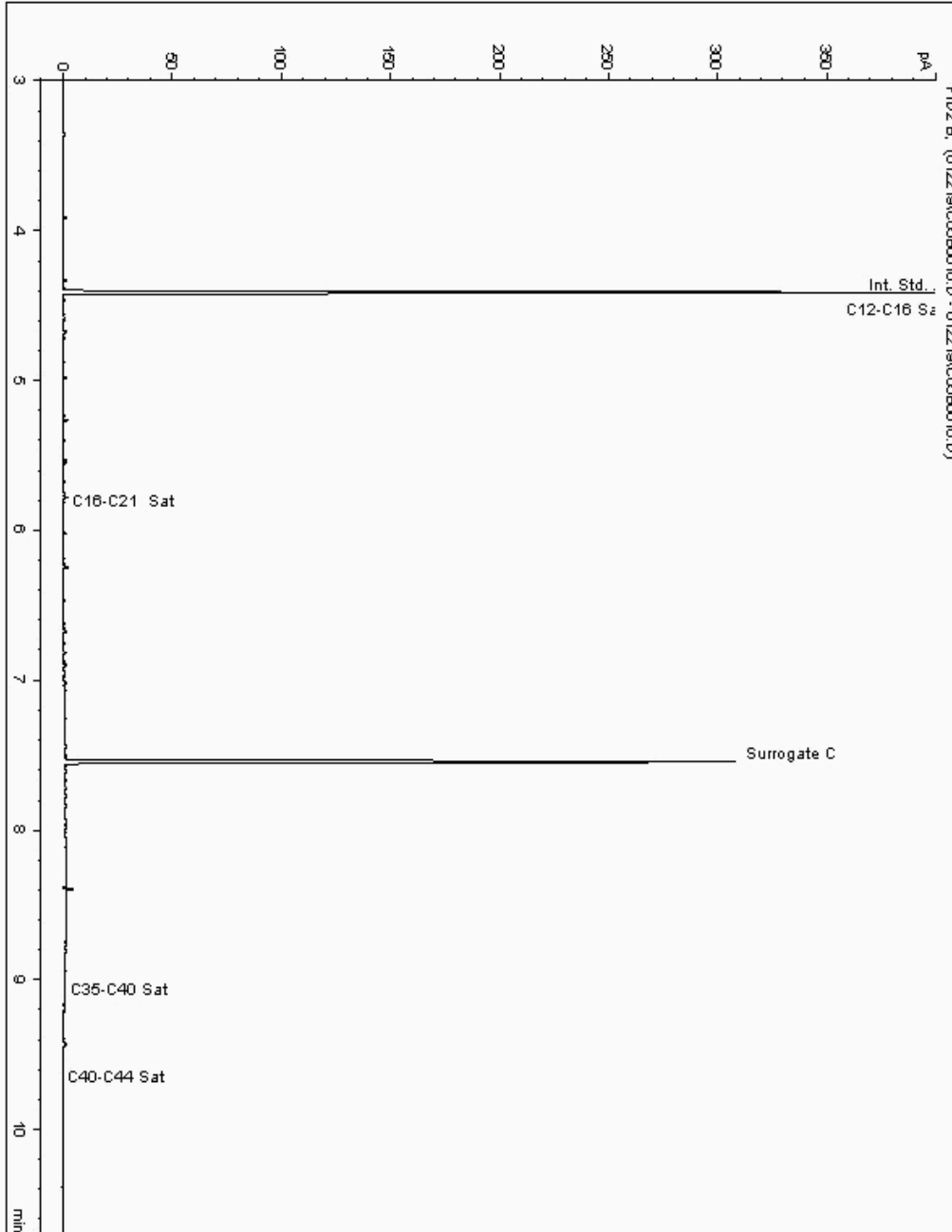
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19154174
Sample ID : BH233

Depth : 12.50 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977627-
Date Acquired : 22/01/2019 14:31:39 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

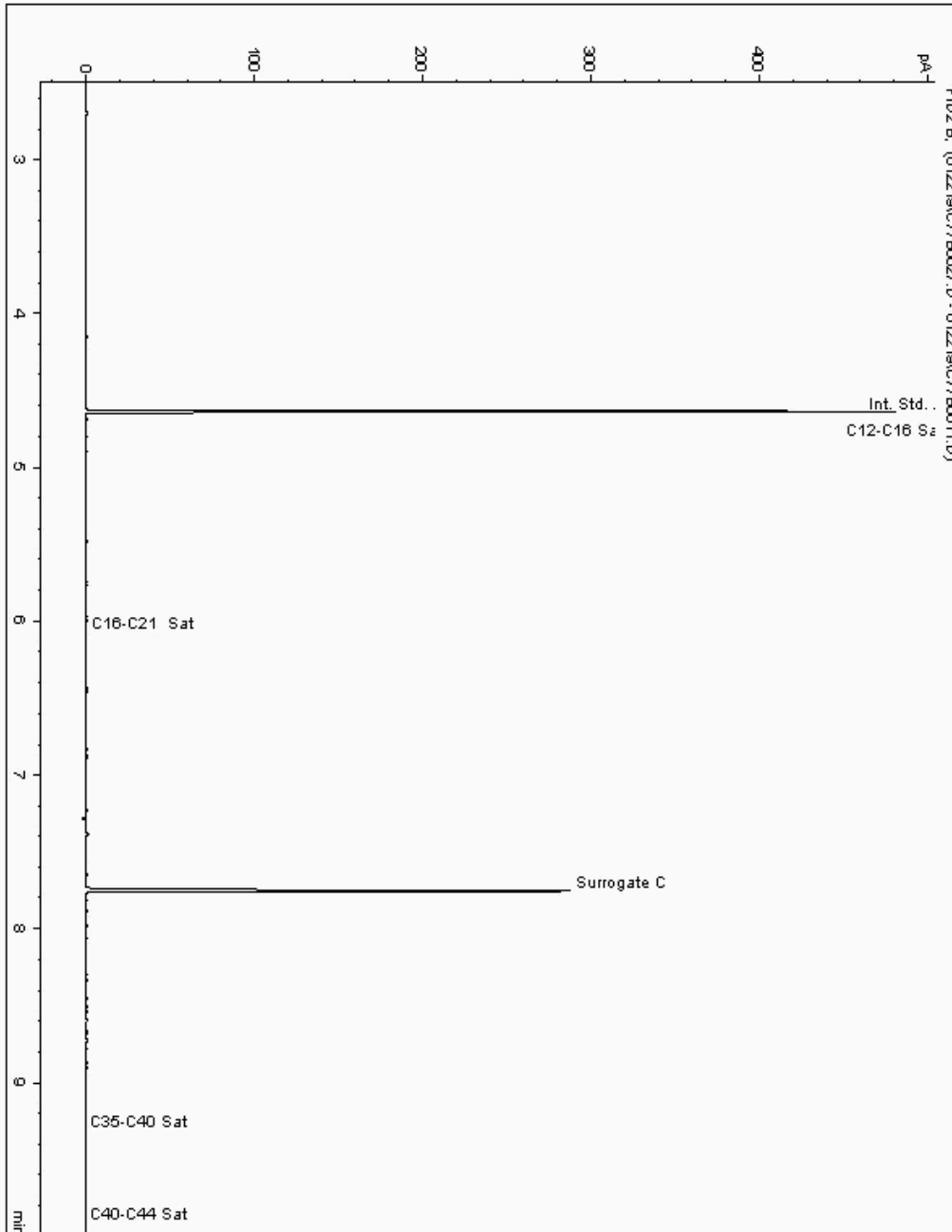
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19154218
Sample ID : BH232

Depth : 7.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977224-
Date Acquired : 1/22/2019 7:28:25 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

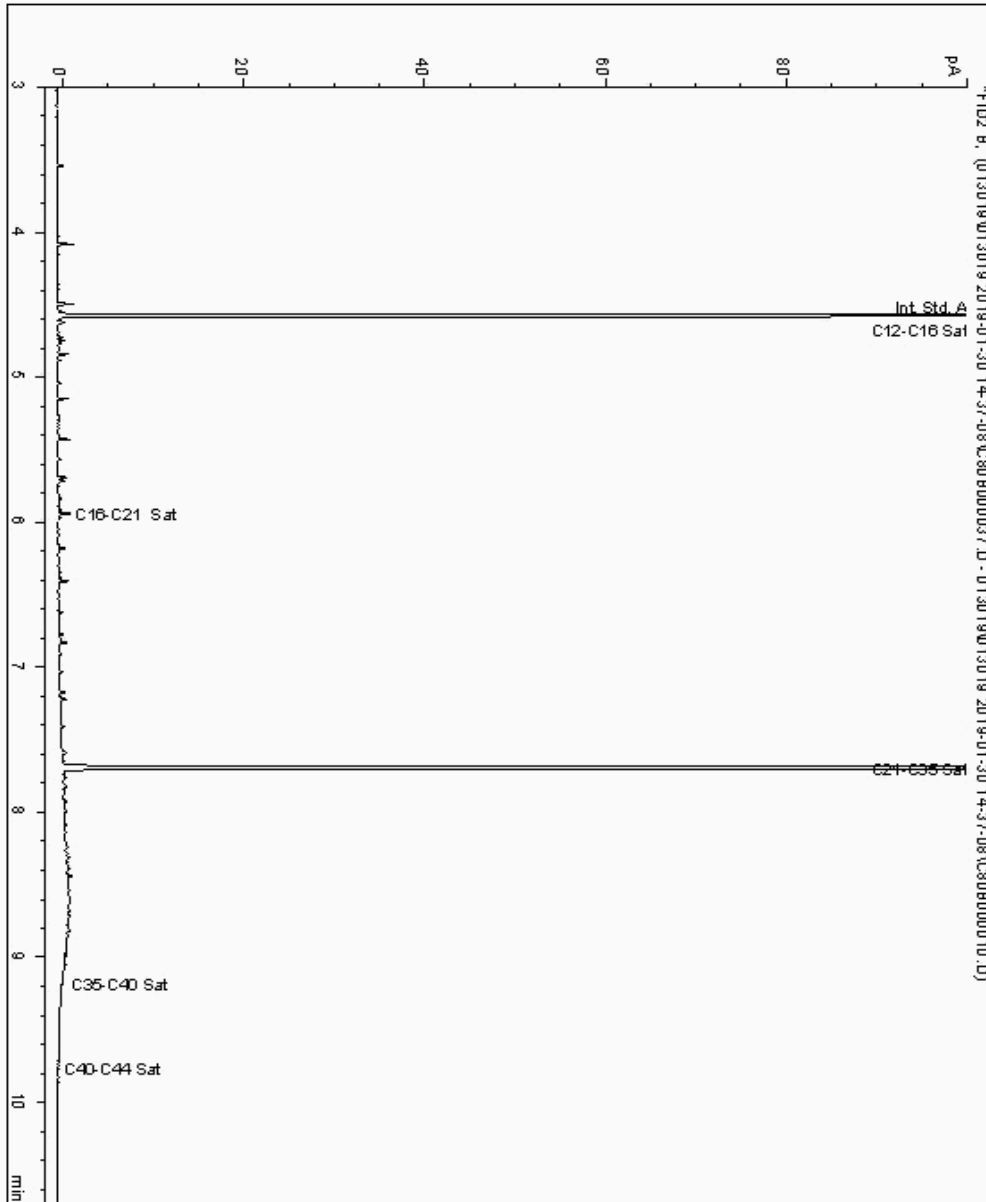
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19196091
Sample ID : BH232

Depth : 12.50 - 13.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 18036368-
Date Acquired : 30/01/19 19:49:05
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

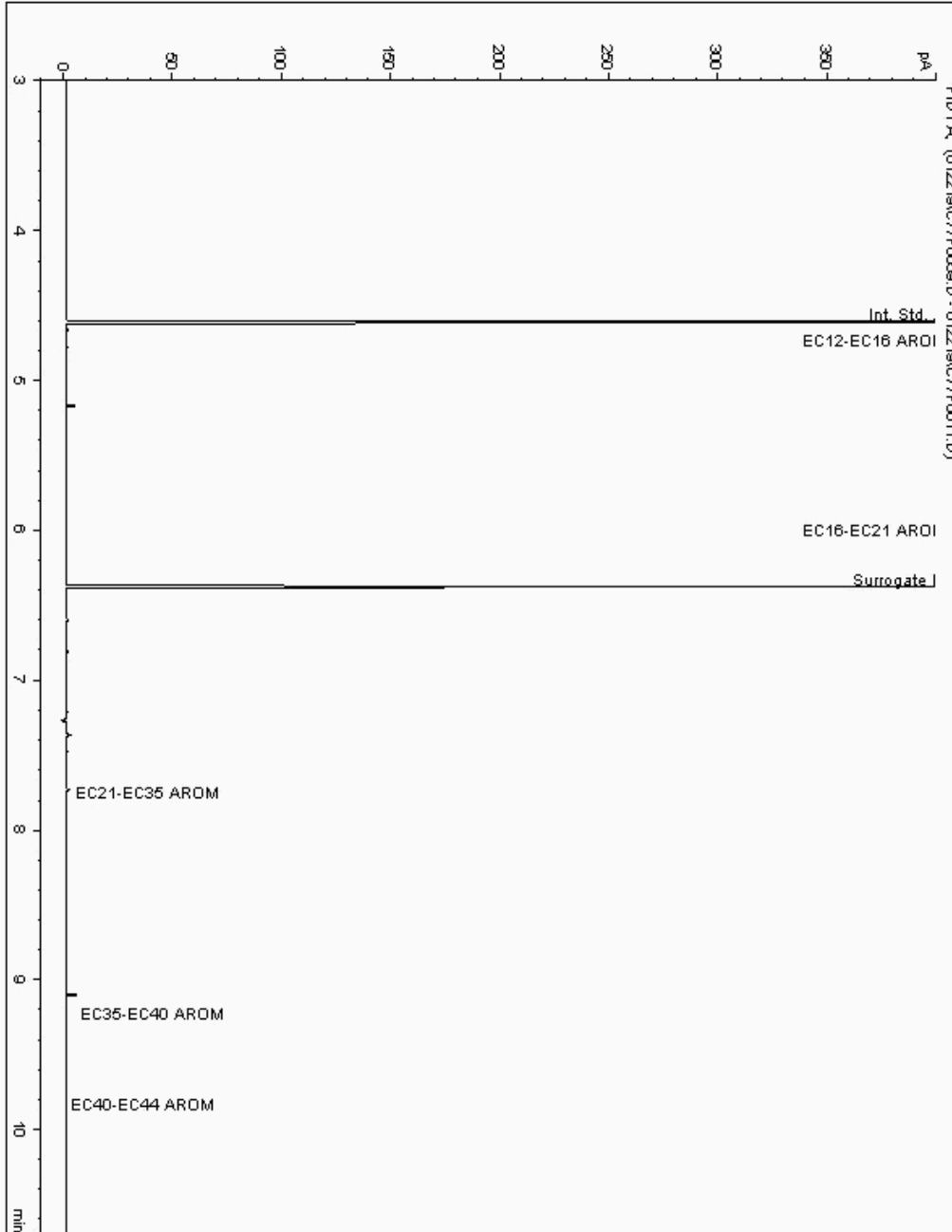
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19141298
Sample ID : BH232

Depth : 8.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977251-
Date Acquired : 1/23/2019 9:51:25 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

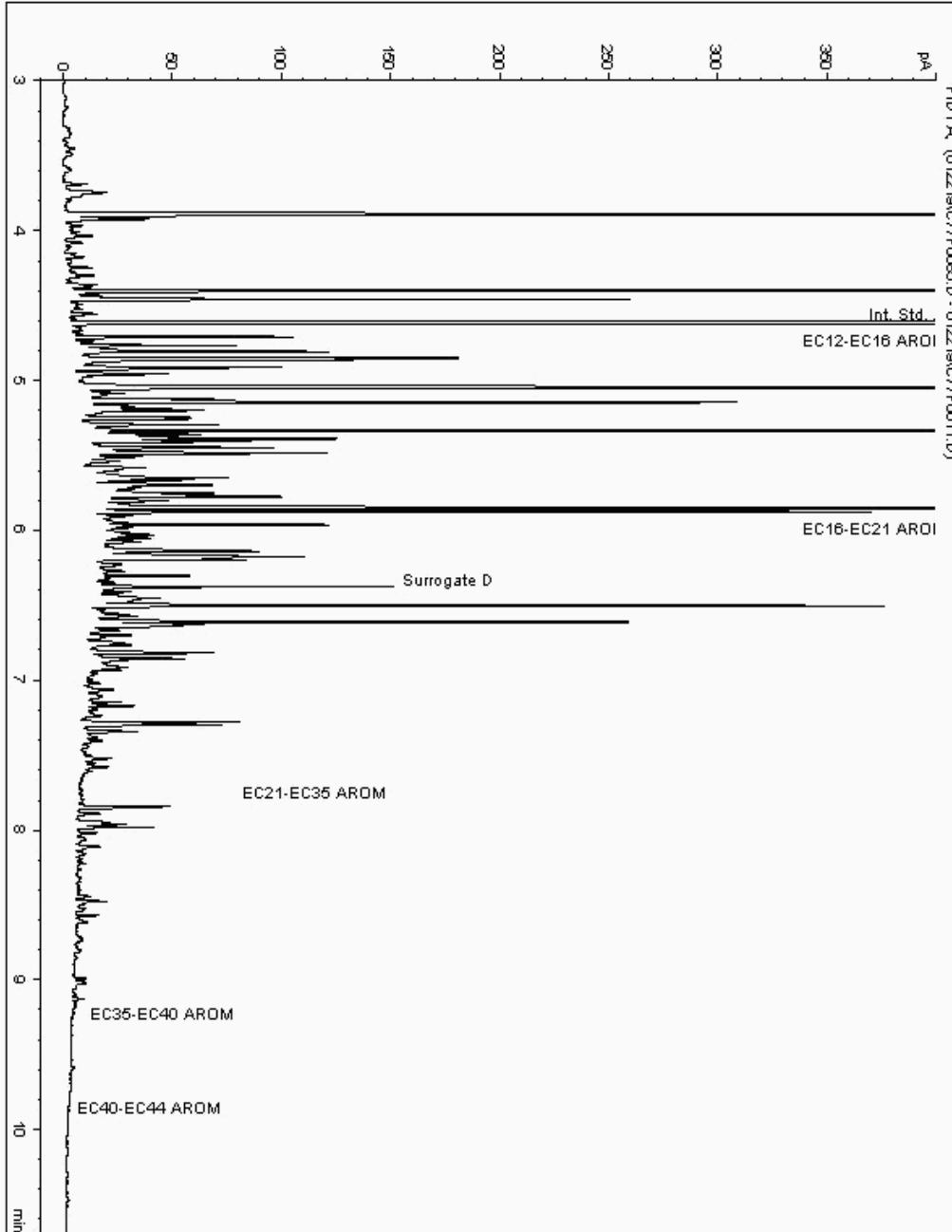
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19141421
Sample ID : BH232

Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977063-
Date Acquired : 1/24/2019 1:53:49 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

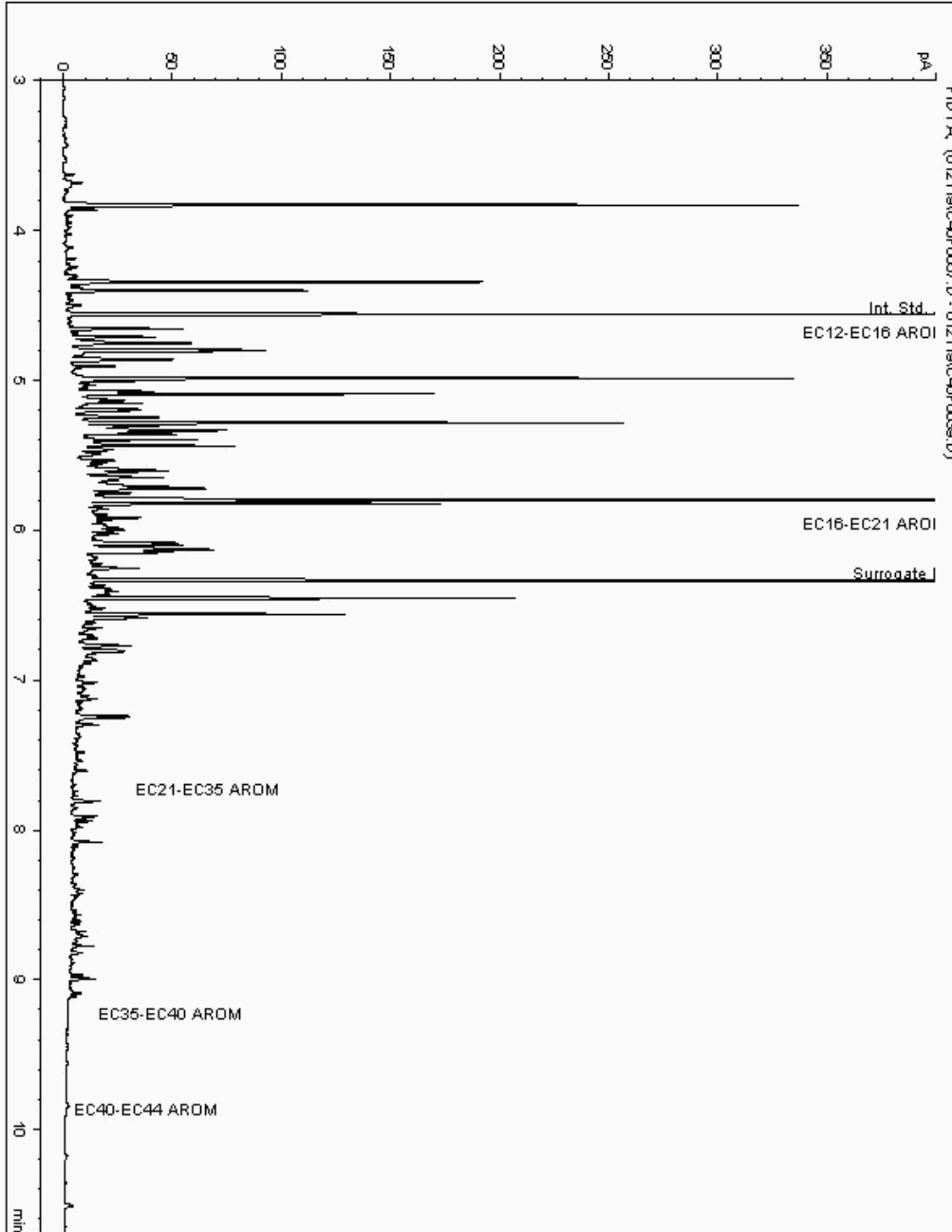
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19141509
Sample ID : BH232

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977119-
Date Acquired : 22/01/2019 08:39:01 PM
Units : ppb
Dilution: BH232[2.00 - 3.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

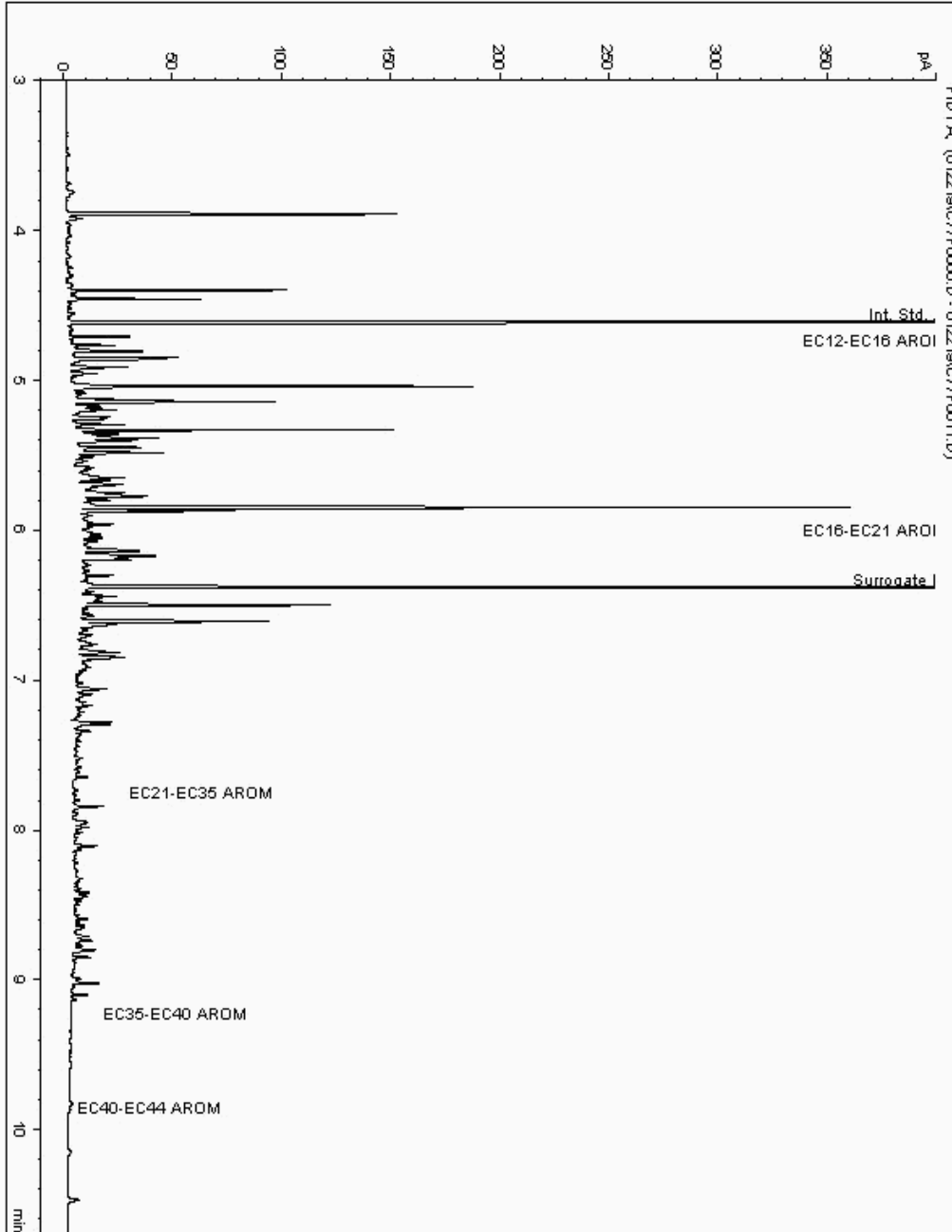
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19141669
Sample ID : BH232

Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977172-
Date Acquired : 1/23/2019 10:11:26 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

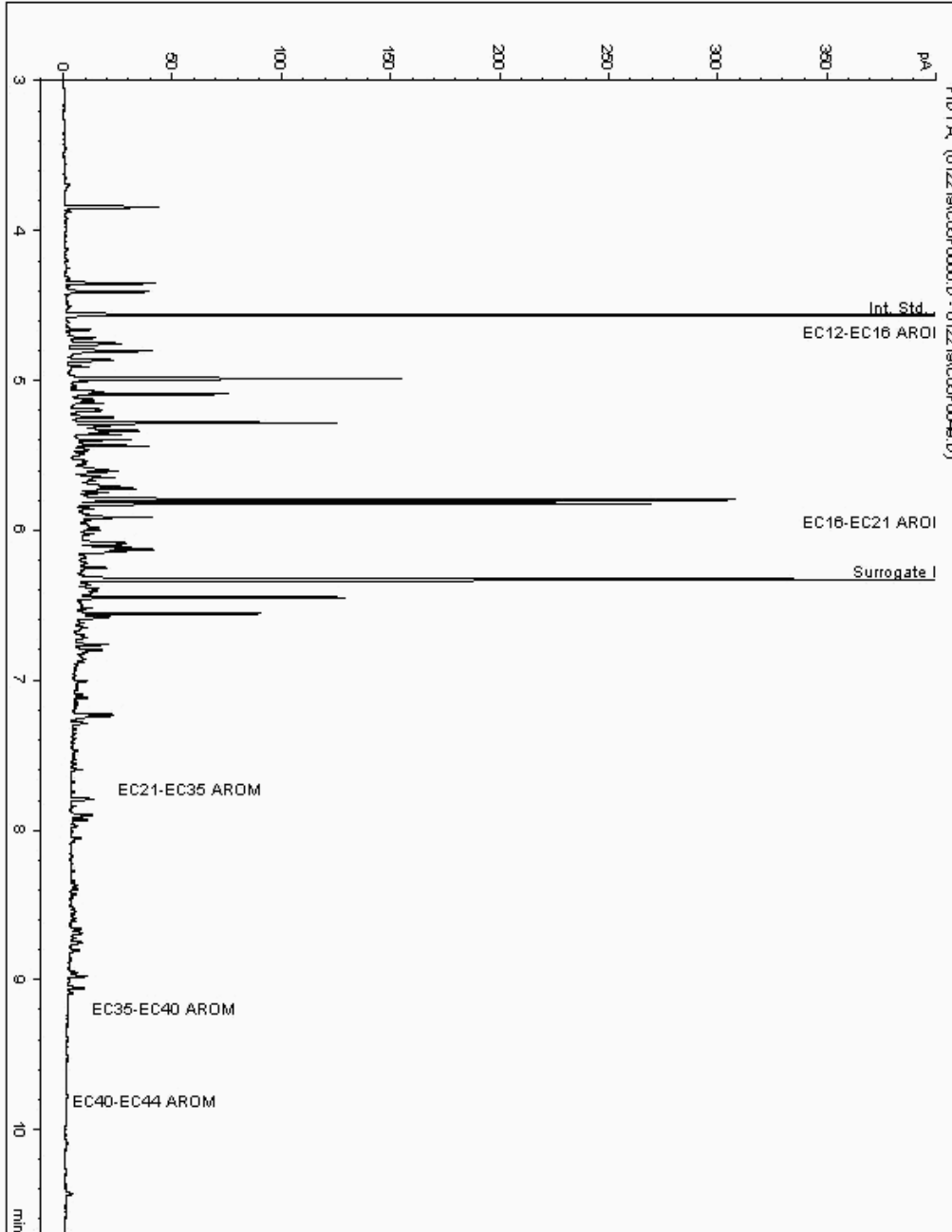
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19142175
Sample ID : BH232

Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977149-
Date Acquired : 23/01/2019 21:44:25 PM
Units : ppb
Dilution: BH232[3.00 - 4.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

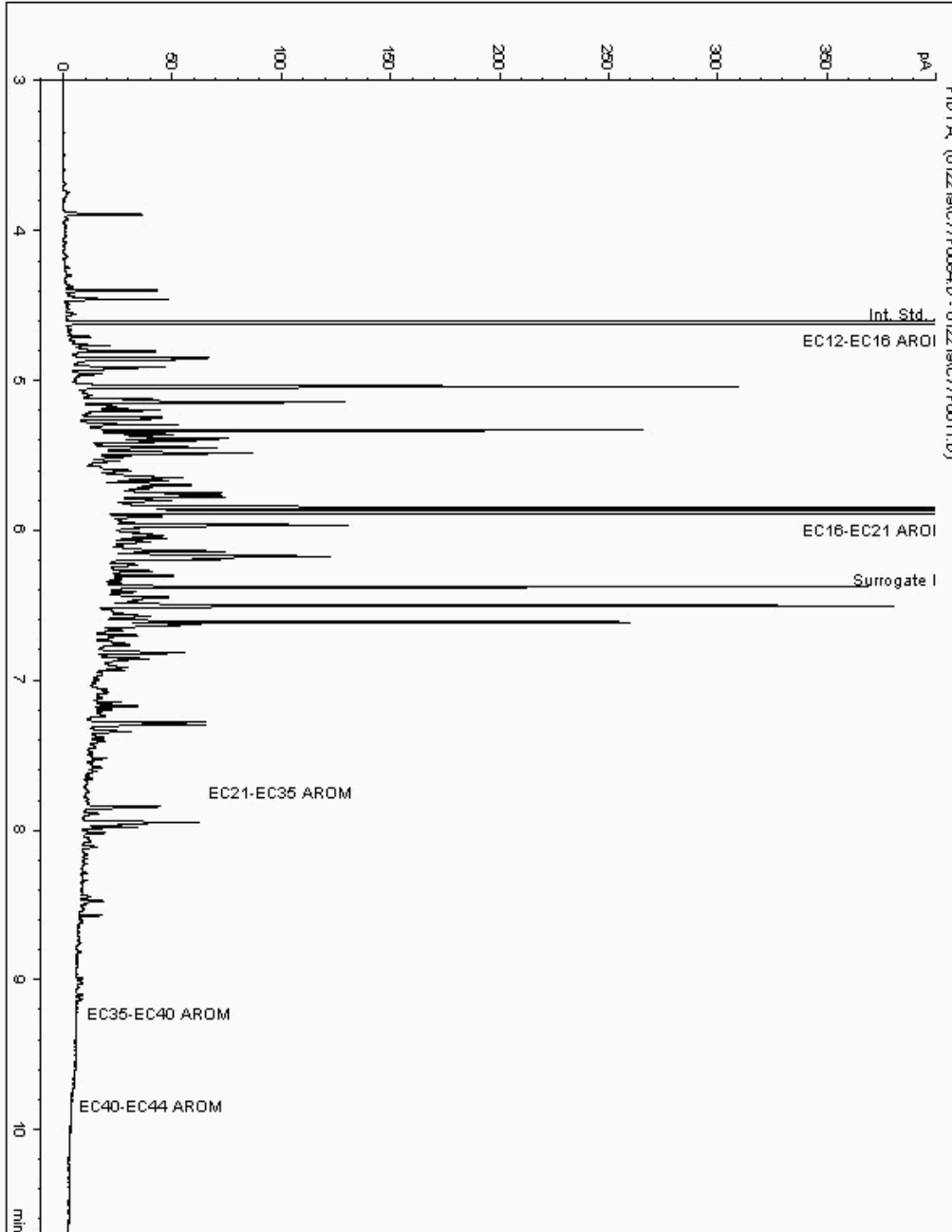
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19142419
Sample ID : BH232

Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977040-
Date Acquired : 1/24/2019 1:33:54 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

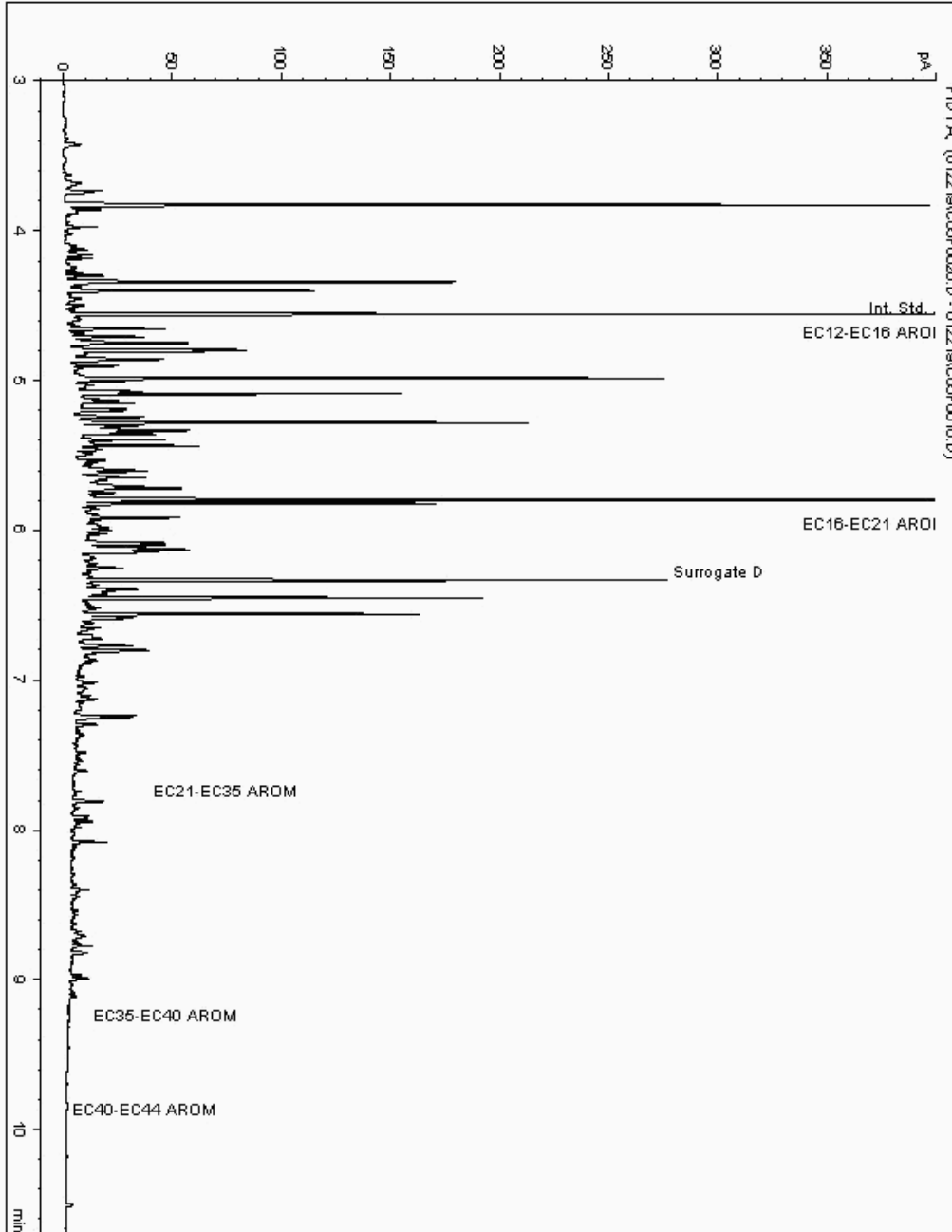
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19142655
Sample ID : BH232

Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977086-
Date Acquired : 22/01/2019 23:08:36 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

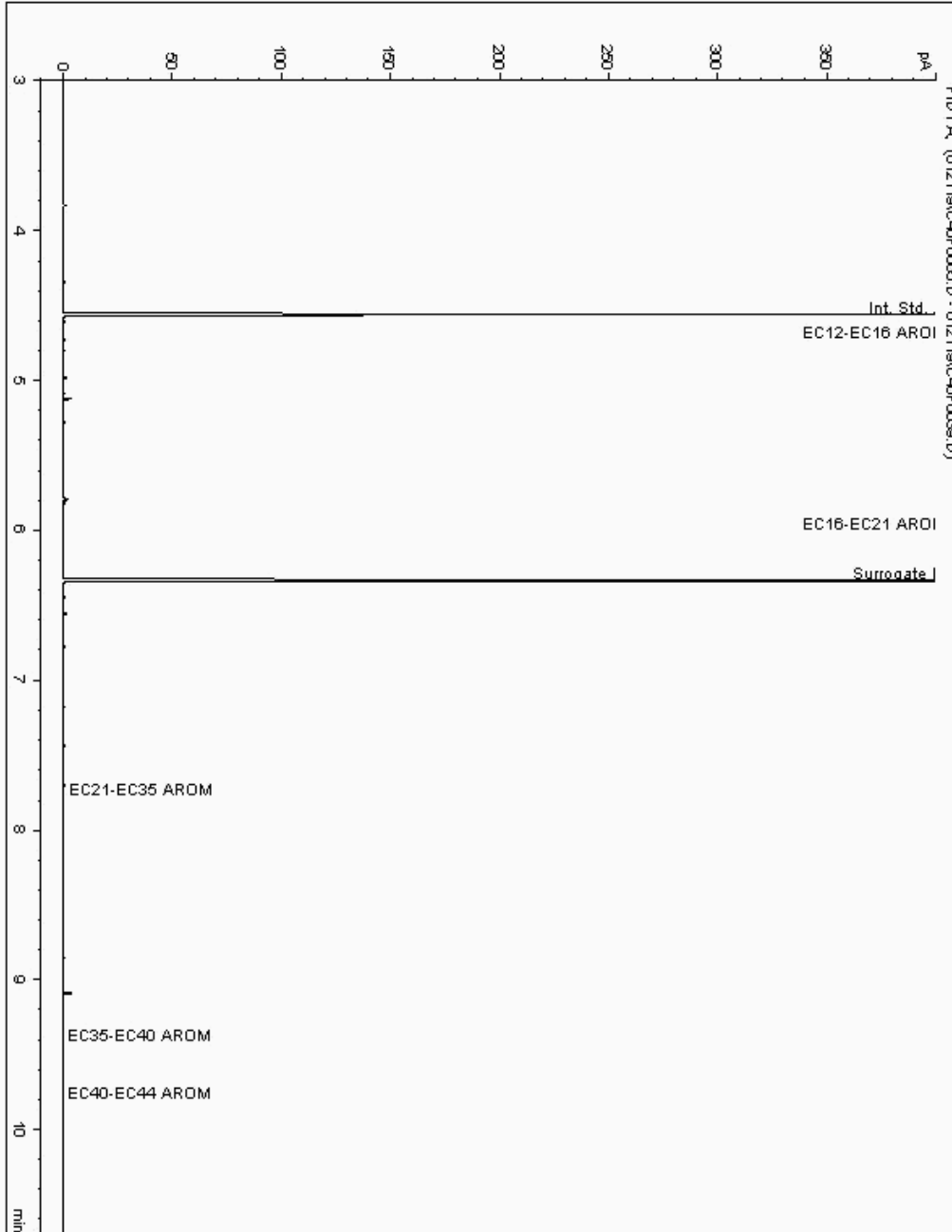
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19142732
Sample ID : BH232

Depth : 10.00 - 12.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977277-
Date Acquired : 22/01/2019 10:48:37 PM
Units : ppb
Dilution: BH232[10.00 - 12.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

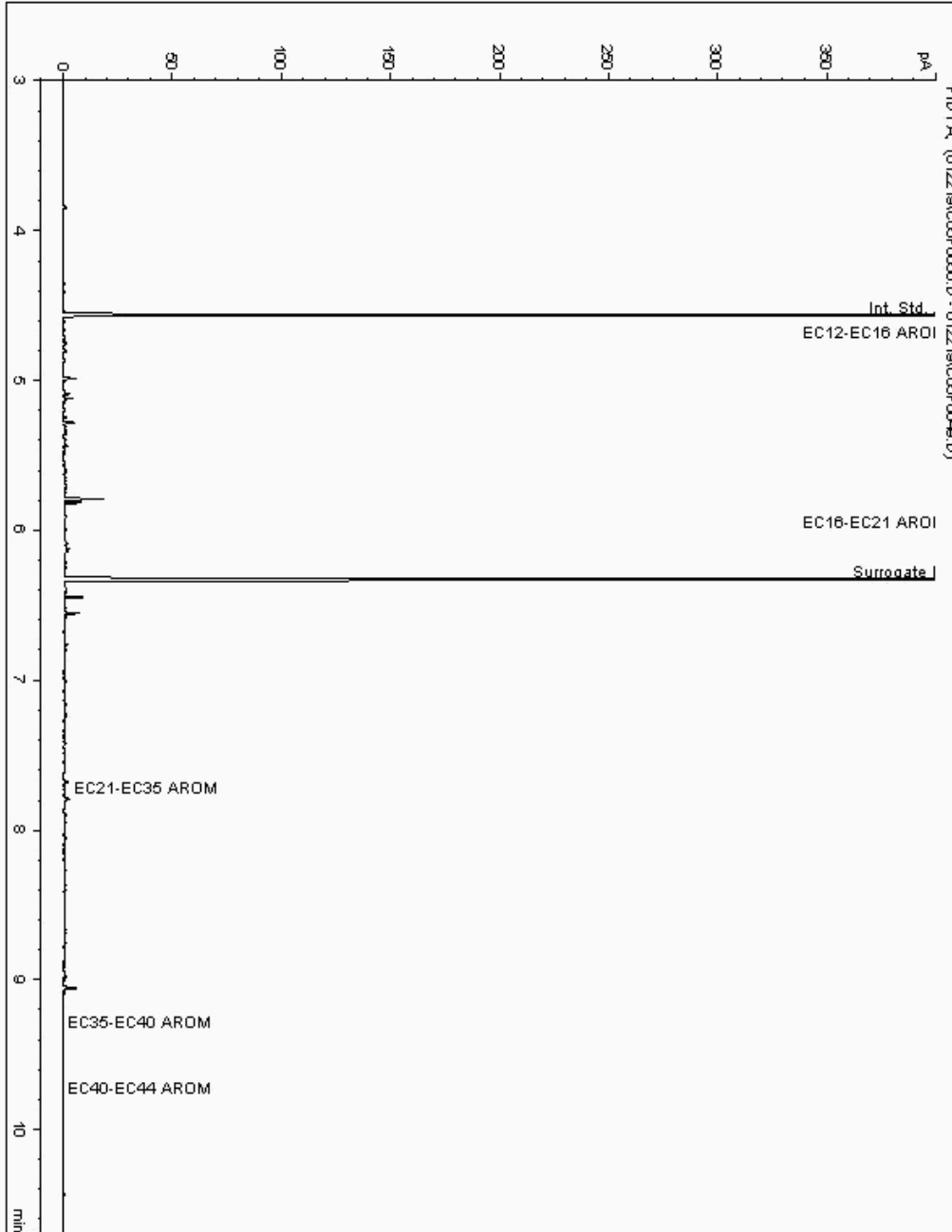
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19142948
Sample ID : BH232

Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977195-
Date Acquired : 23/01/2019 18:44:43 PM
Units : ppb
Dilution: BH232[5.00 - 6.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

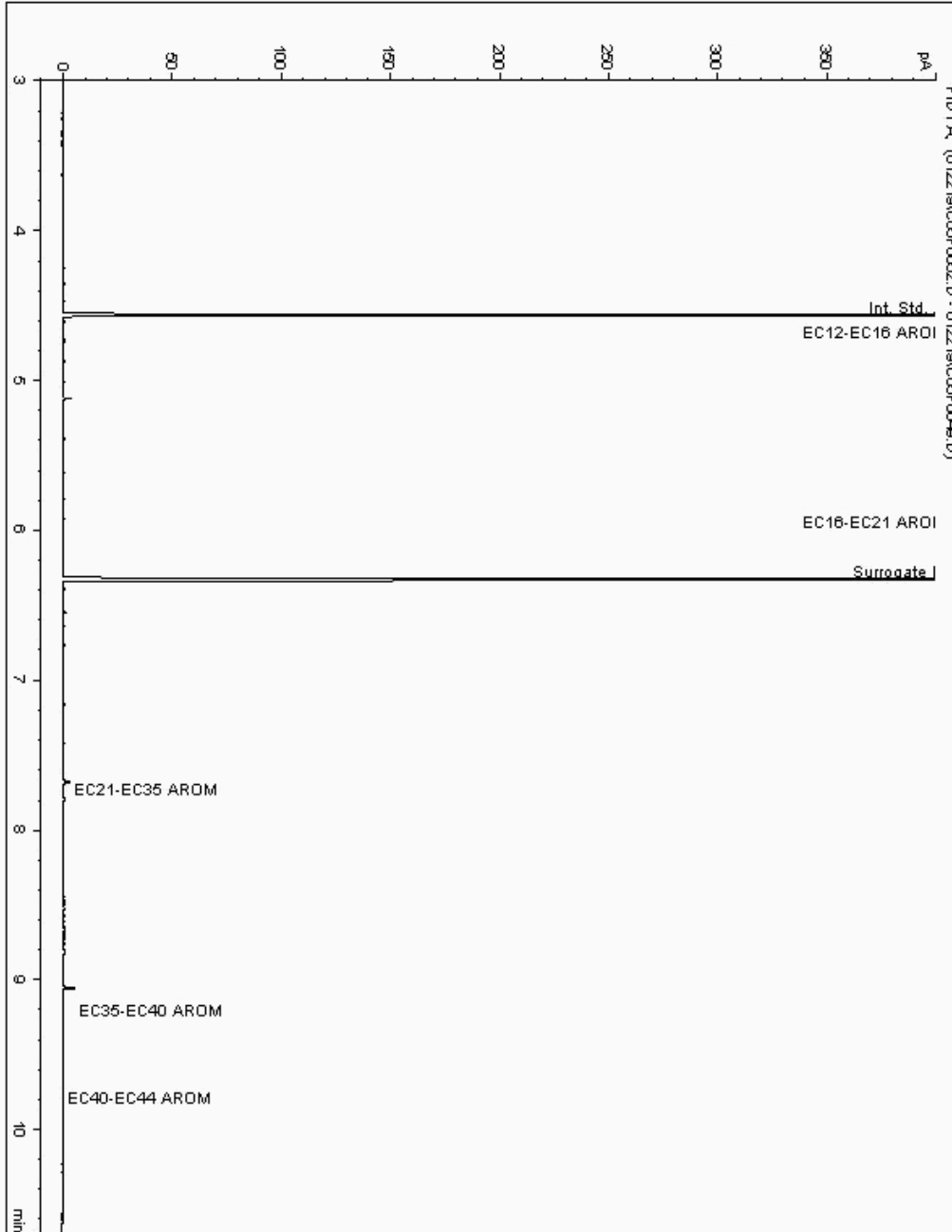
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143165
Sample ID : BH234

Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17978179-
Date Acquired : 23/01/2019 17:31:03 PM
Units : ppb
Dilution: BH234[12.00 - 13.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

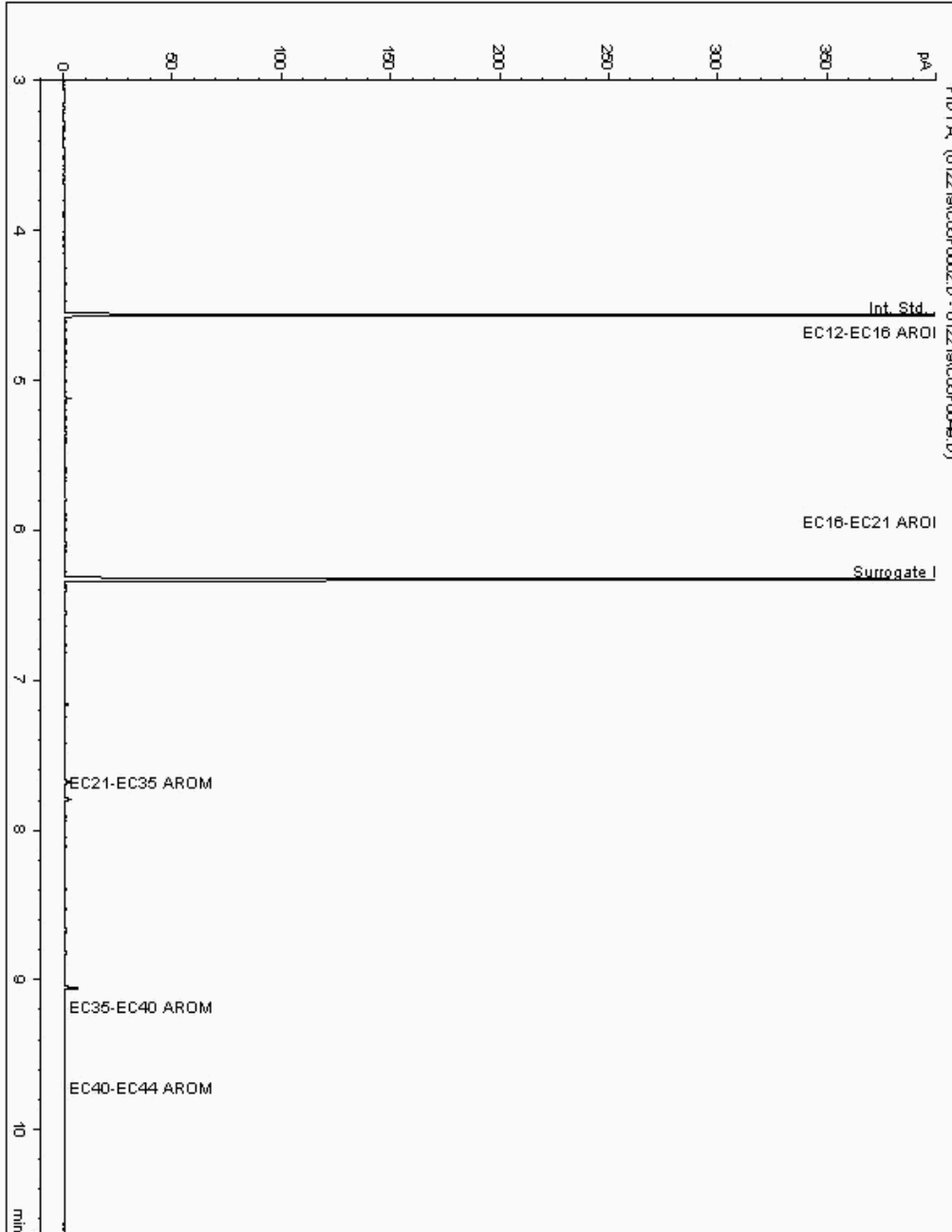
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143241
Sample ID : BH234

Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17978269-
Date Acquired : 23/01/2019 20:30:57 PM
Units : ppb
Dilution: BH234[16.00 - 17.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

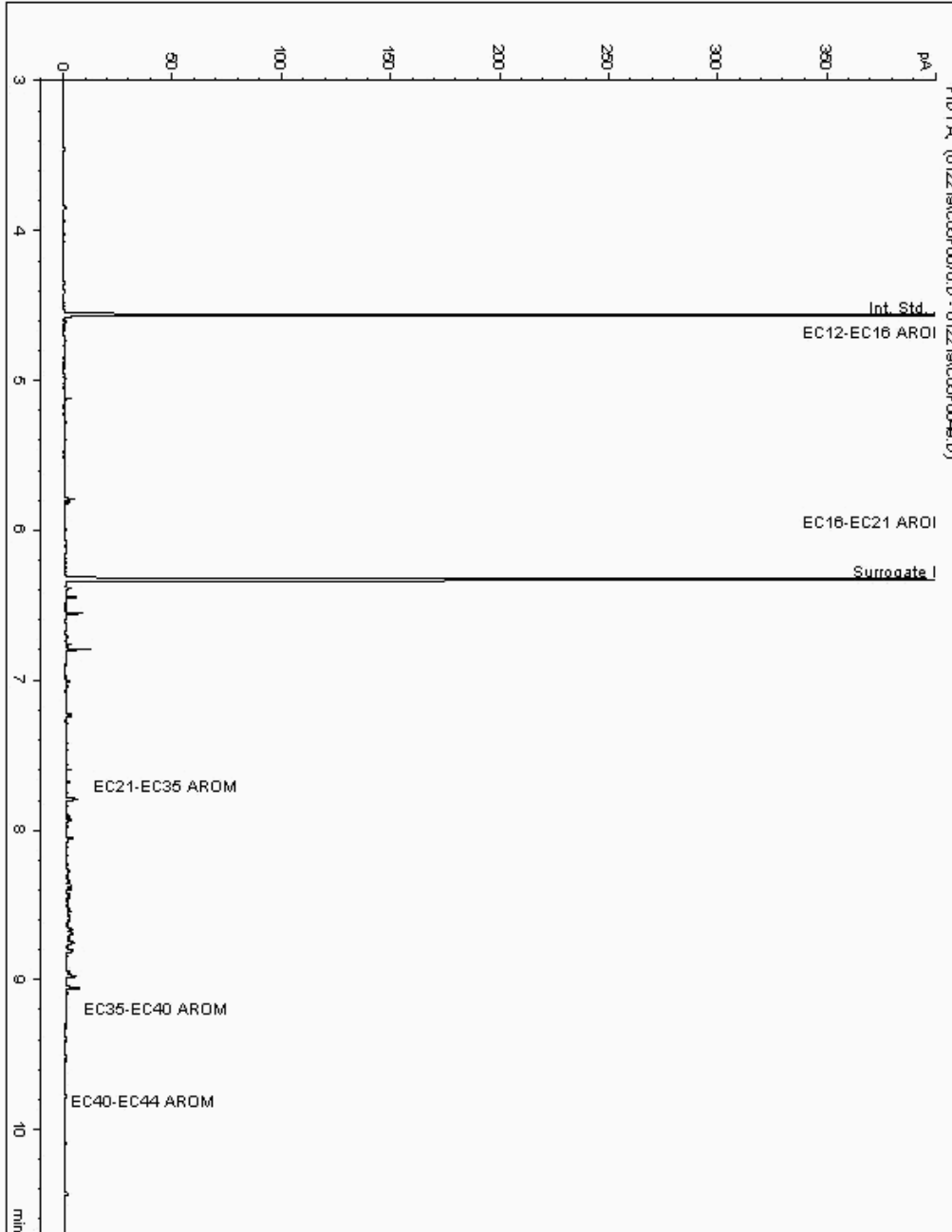
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143343
Sample ID : BH233

Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977530-
Date Acquired : 23/01/2019 22:49:45 PM
Units : ppb
Dilution: BH233[5.00 - 6.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

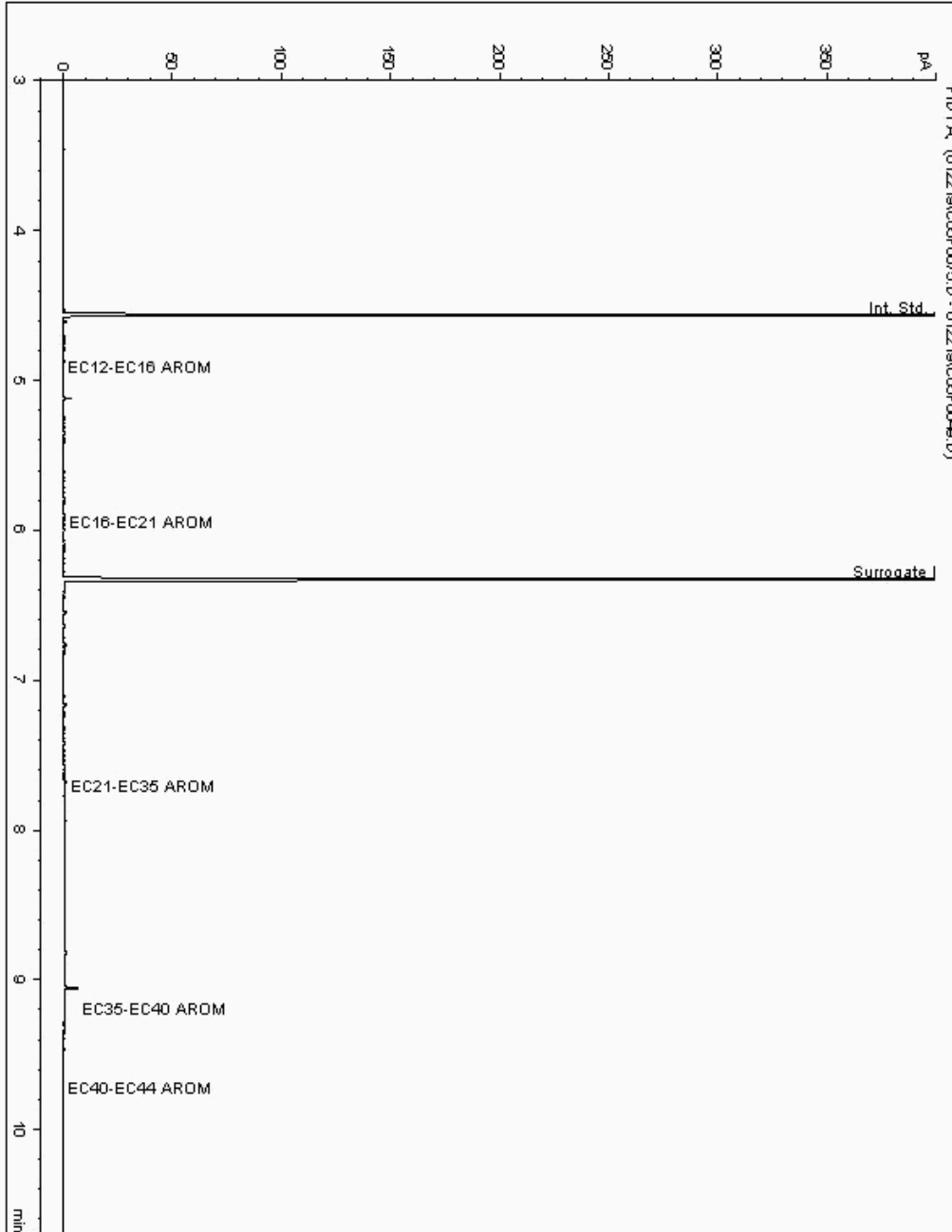
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143387
Sample ID : BH234

Depth : 8.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17978094-
Date Acquired : 24/01/2019 00:23:31 PM
Units : ppb
Dilution: BH234[8.00 - 10.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

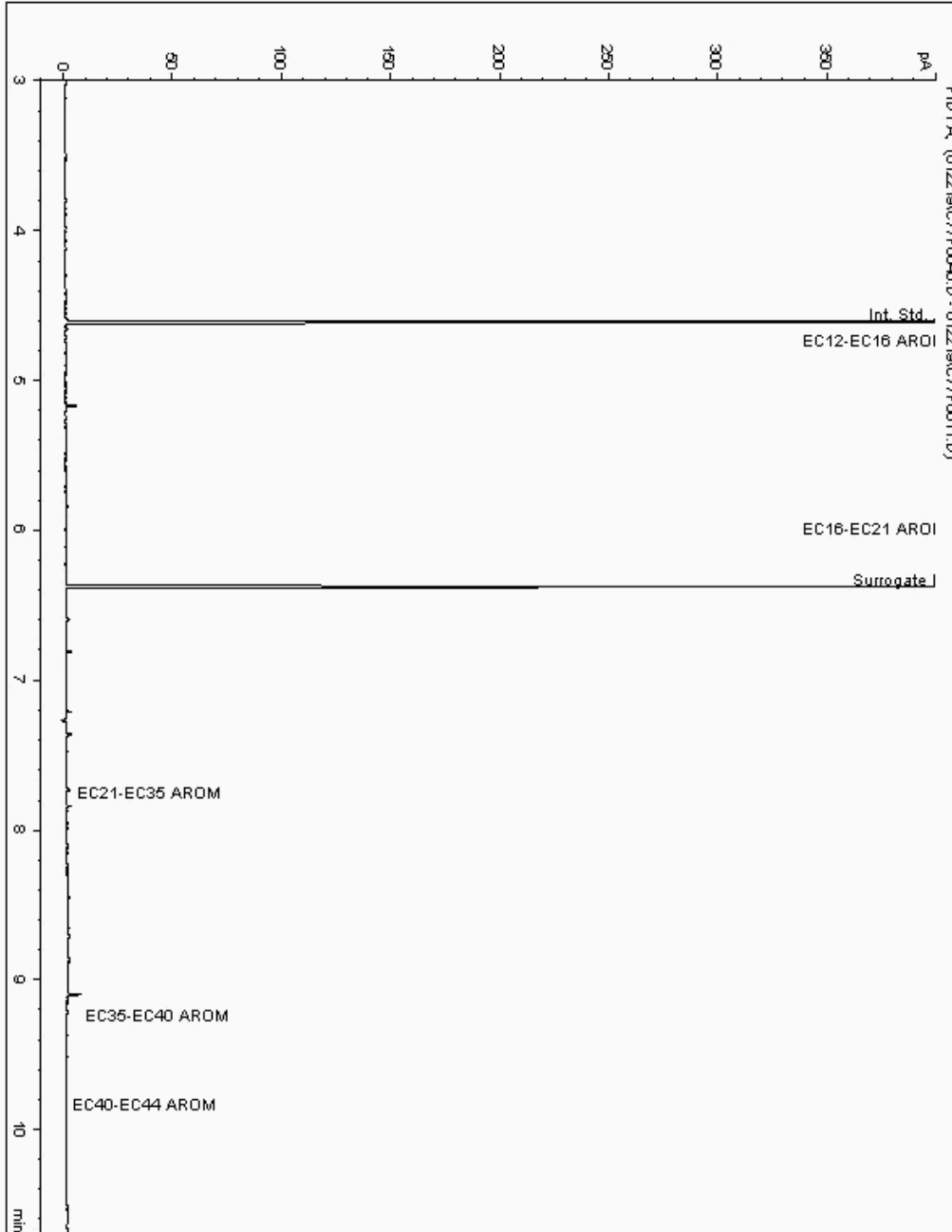
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143538
Sample ID : BH234

Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17978214-
Date Acquired : 1/23/2019 5:52:03 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

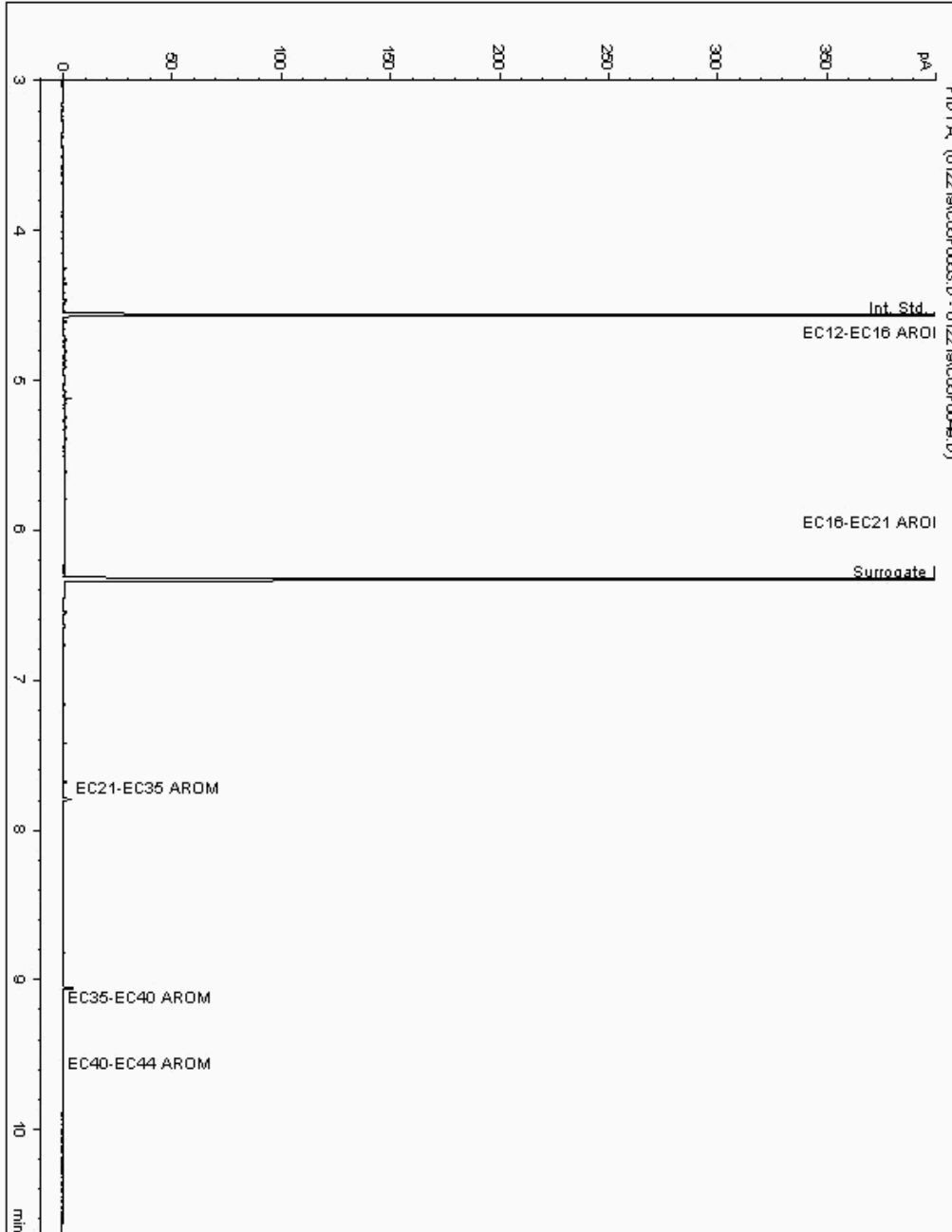
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143612
Sample ID : BH234

Depth : 0.80 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977714-
Date Acquired : 23/01/2019 17:51:33 PM
Units : ppb
Dilution: BH234[0.80 - 1.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

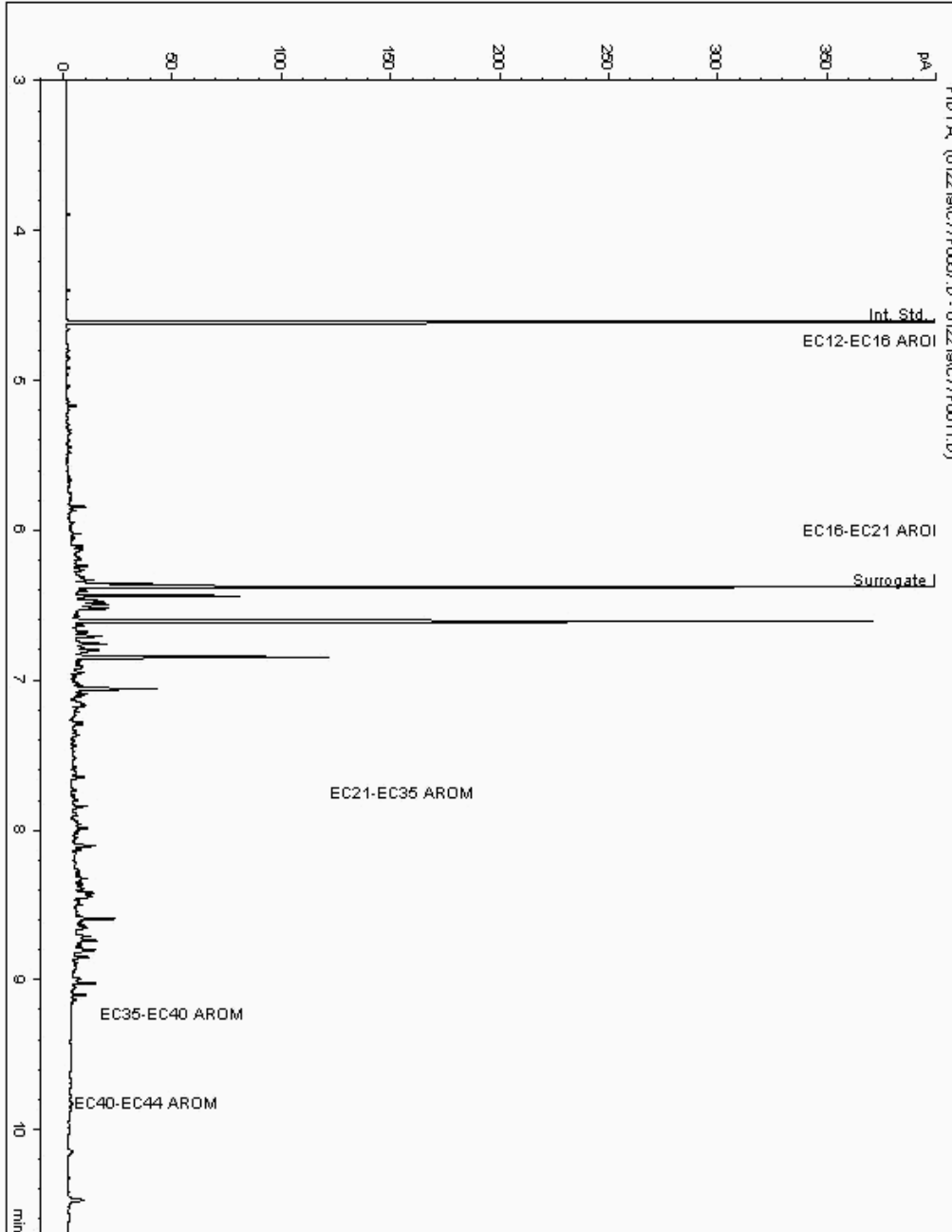
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143752
Sample ID : BH234

Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977816-
Date Acquired : 1/23/2019 9:19:39 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

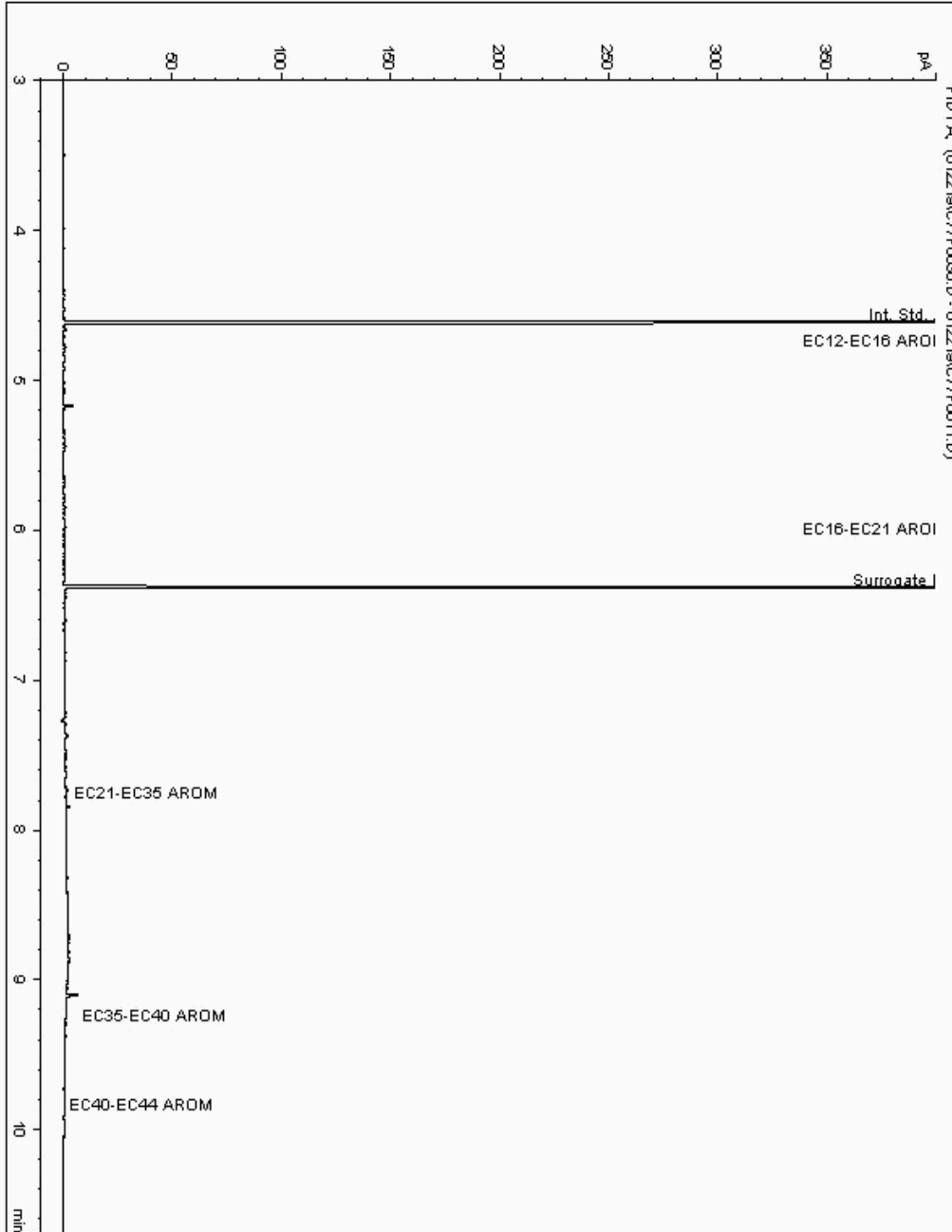
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143859
Sample ID : BH233

Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977659-
Date Acquired : 1/22/2019 8:28:32 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

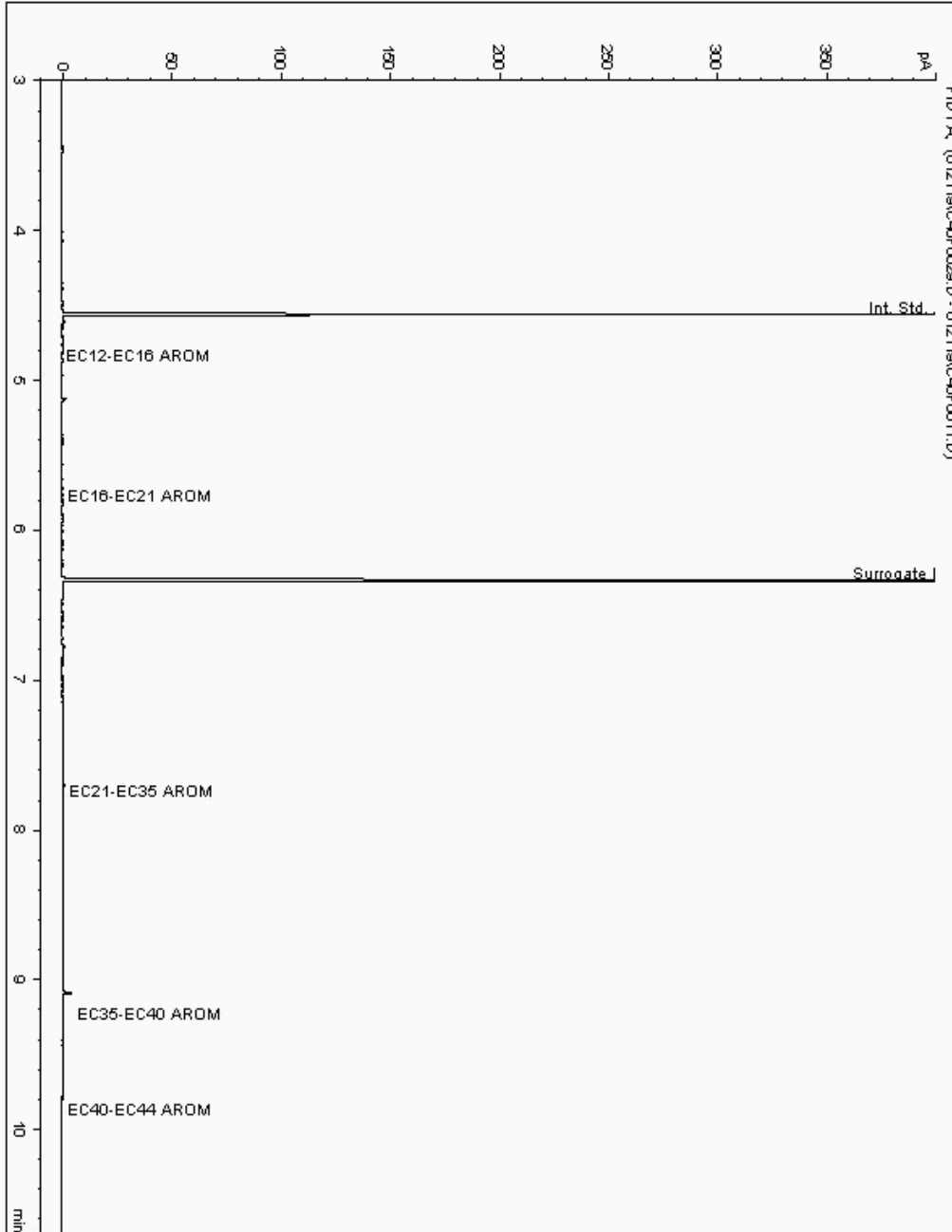
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143899
Sample ID : BH233

Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977558-
Date Acquired : 21/01/2019 23:48:19 PM
Units : ppb
Dilution: BH233[8.00 - 9.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

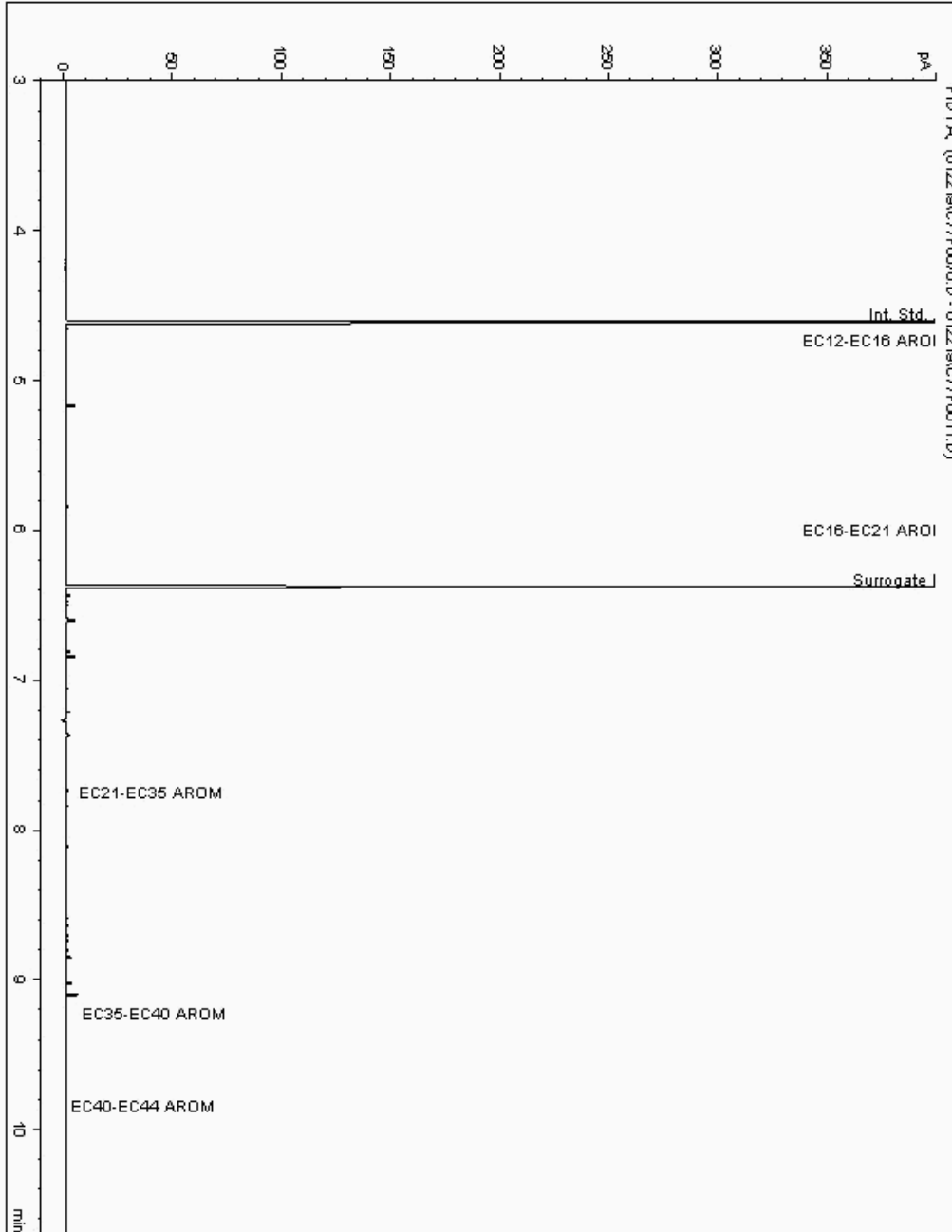
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19143976
Sample ID : BH234

Depth : 5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977957-
Date Acquired : 1/24/2019 12:50:51 AM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

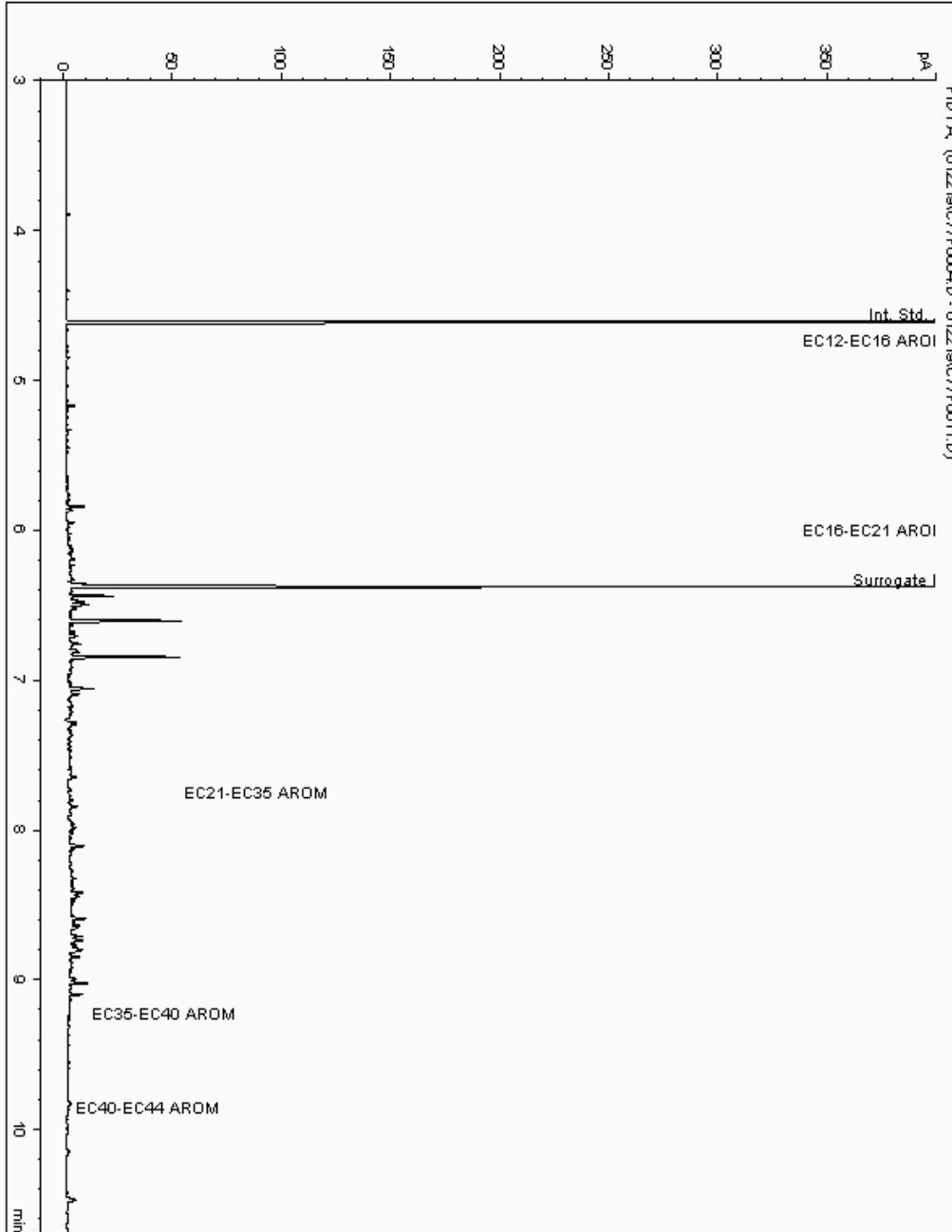
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19144027
Sample ID : BH234

Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977885-
Date Acquired : 1/23/2019 11:15:16 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

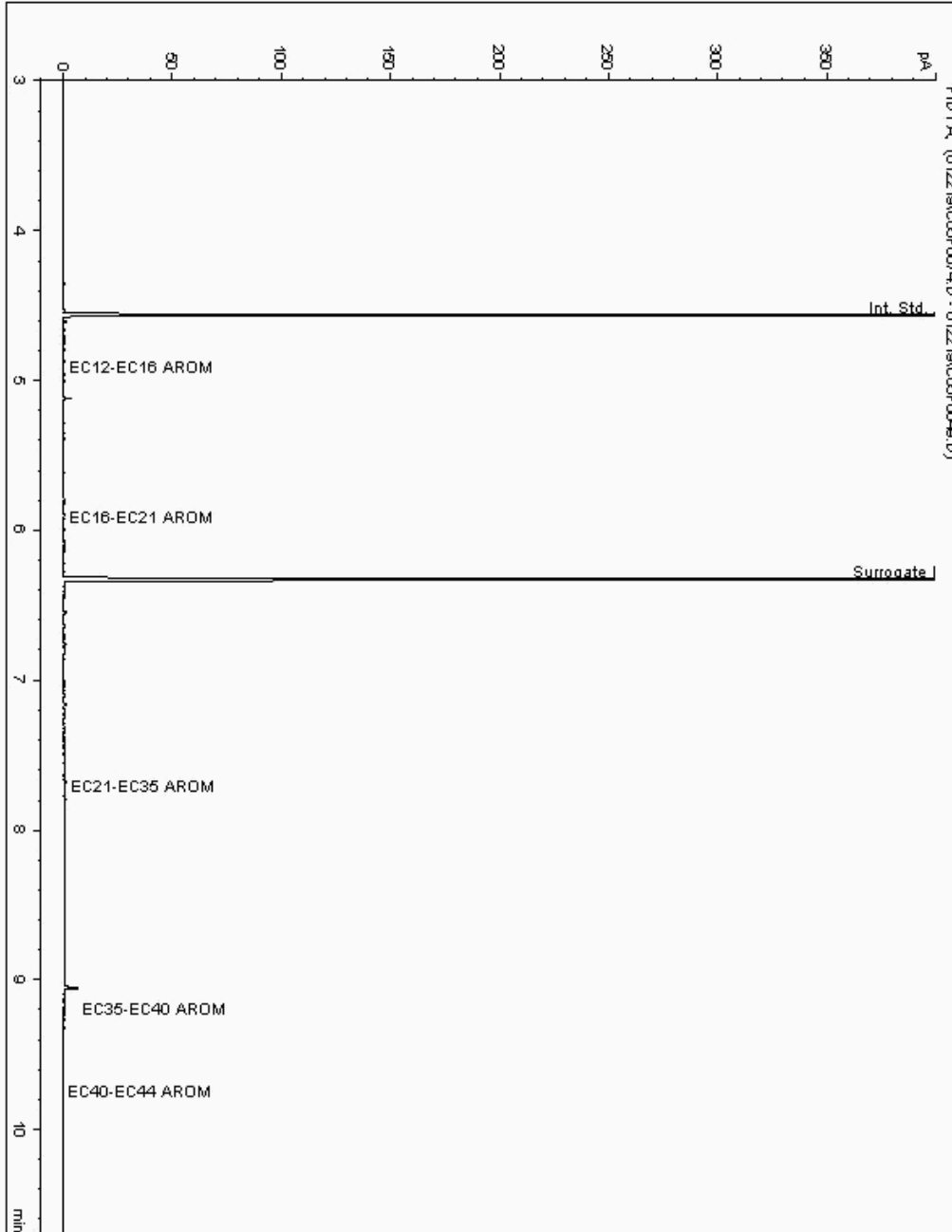
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19144088
Sample ID : BH233

Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977688-
Date Acquired : 24/01/2019 00:03:08 PM
Units : ppb
Dilution: BH233[16.00 - 17.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

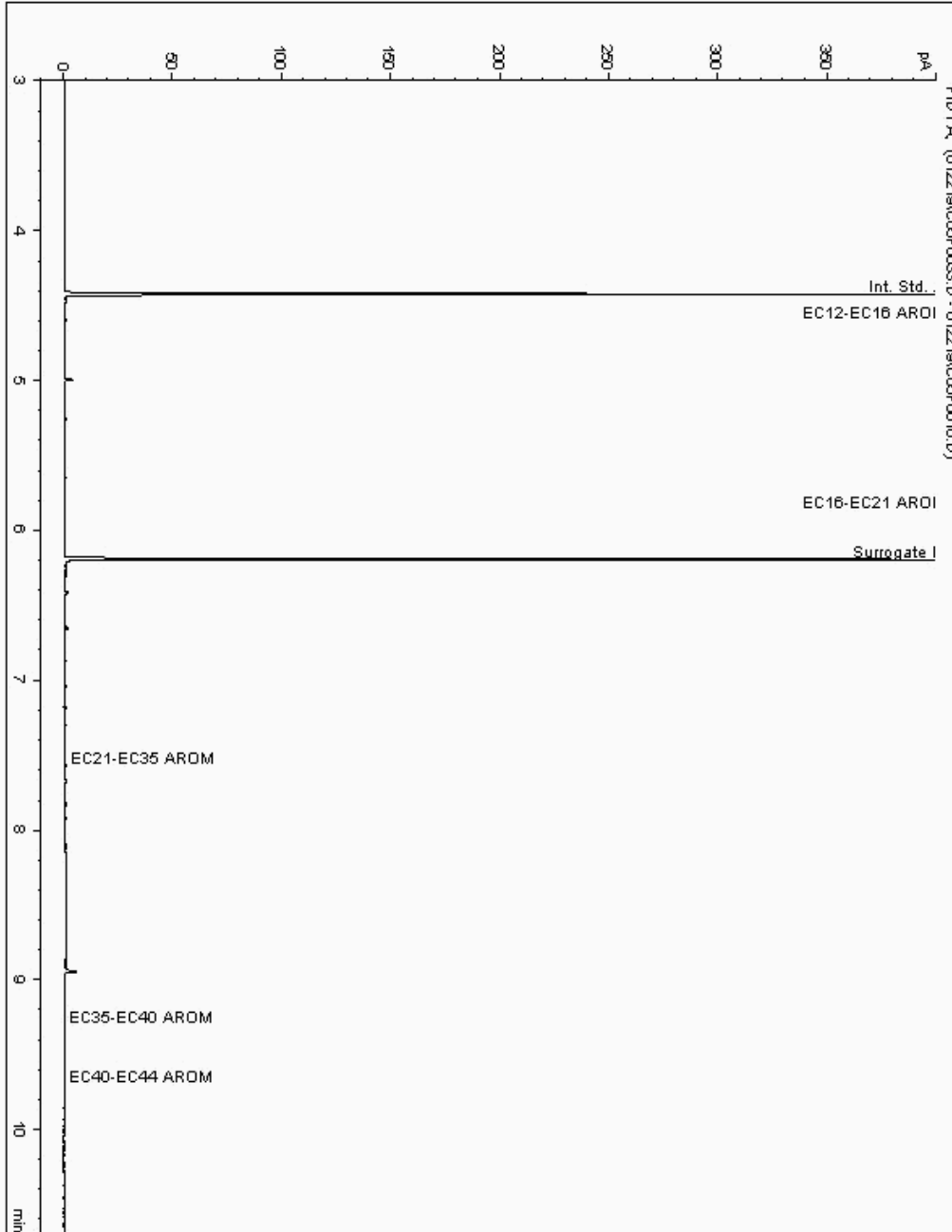
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19148838
Sample ID : BH234

Depth : 7.00 - 8.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17978022-
Date Acquired : 22/01/2019 19:59:31 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

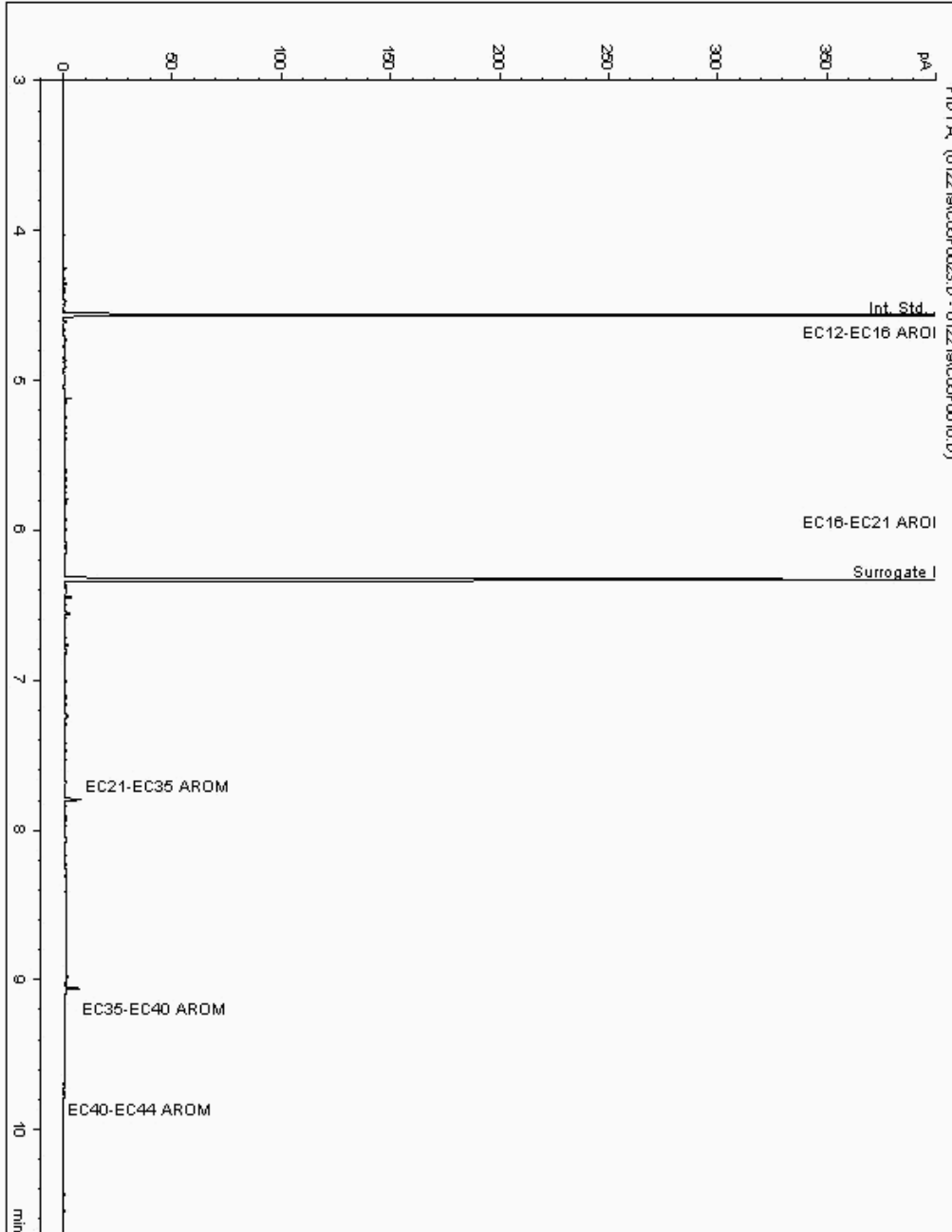
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19148989
Sample ID : BH234

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977762-
Date Acquired : 22/01/2019 18:13:59 PM
Units : ppb
Dilution: BH234[2.00 - 3.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

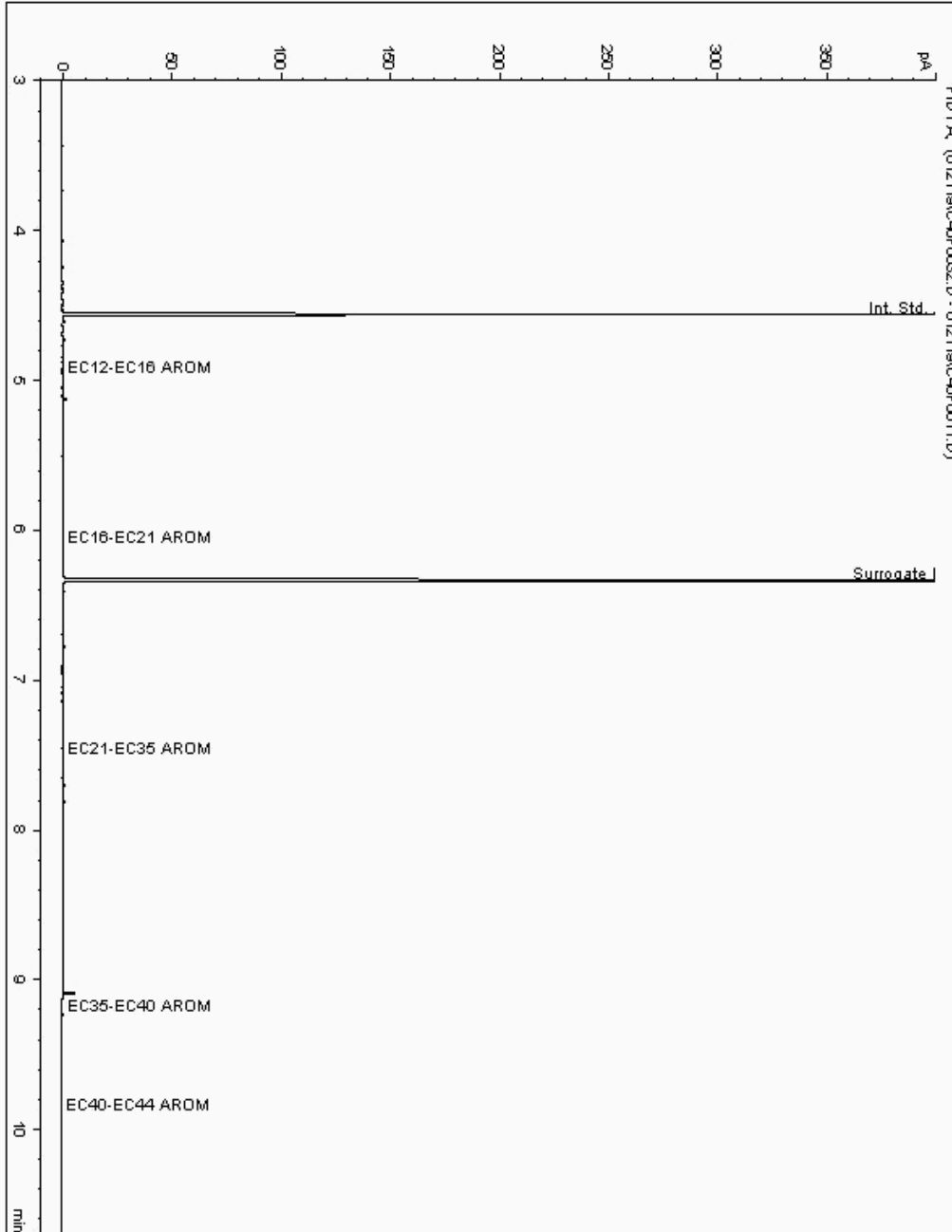
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19149162
Sample ID : BH234

Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17978238-
Date Acquired : 22/01/2019 00:49:15 PM
Units : ppb
Dilution: BH234[15.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

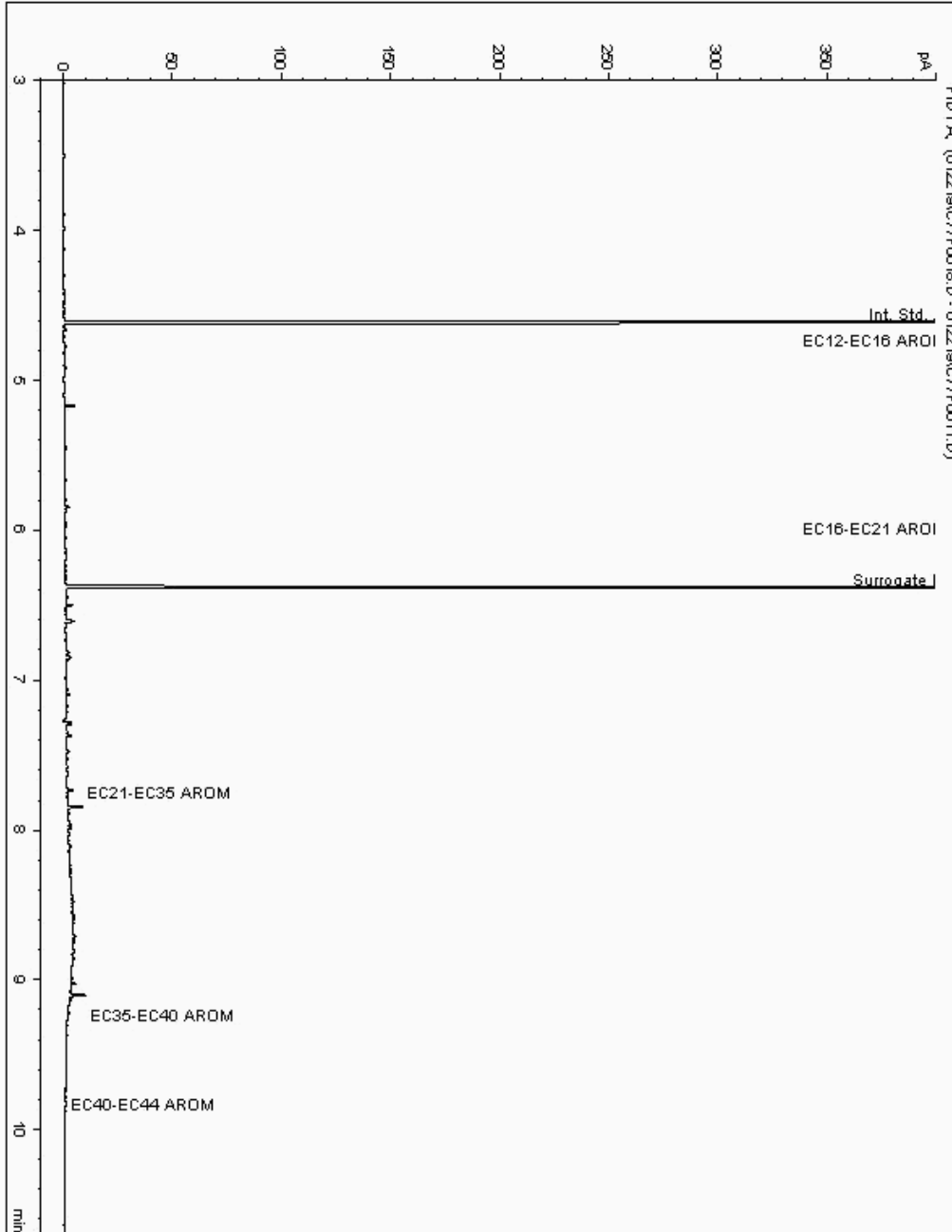
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19149300
Sample ID : BH234

Depth : 1.20 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977739-
Date Acquired : 1/22/2019 4:28:20 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

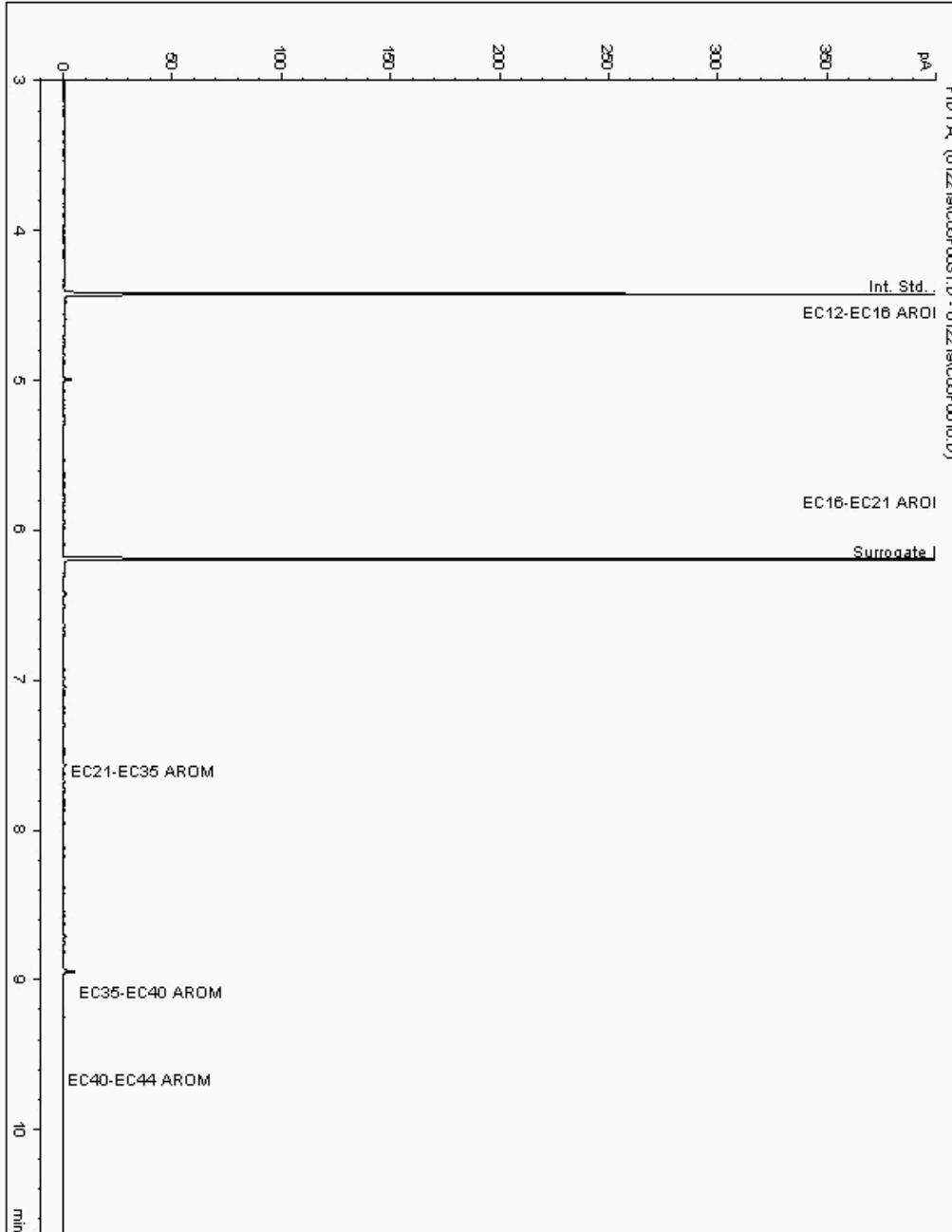
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19153765
Sample ID : BH233

Depth : 9.50 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977581-
Date Acquired : 22/01/2019 19:19:04 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

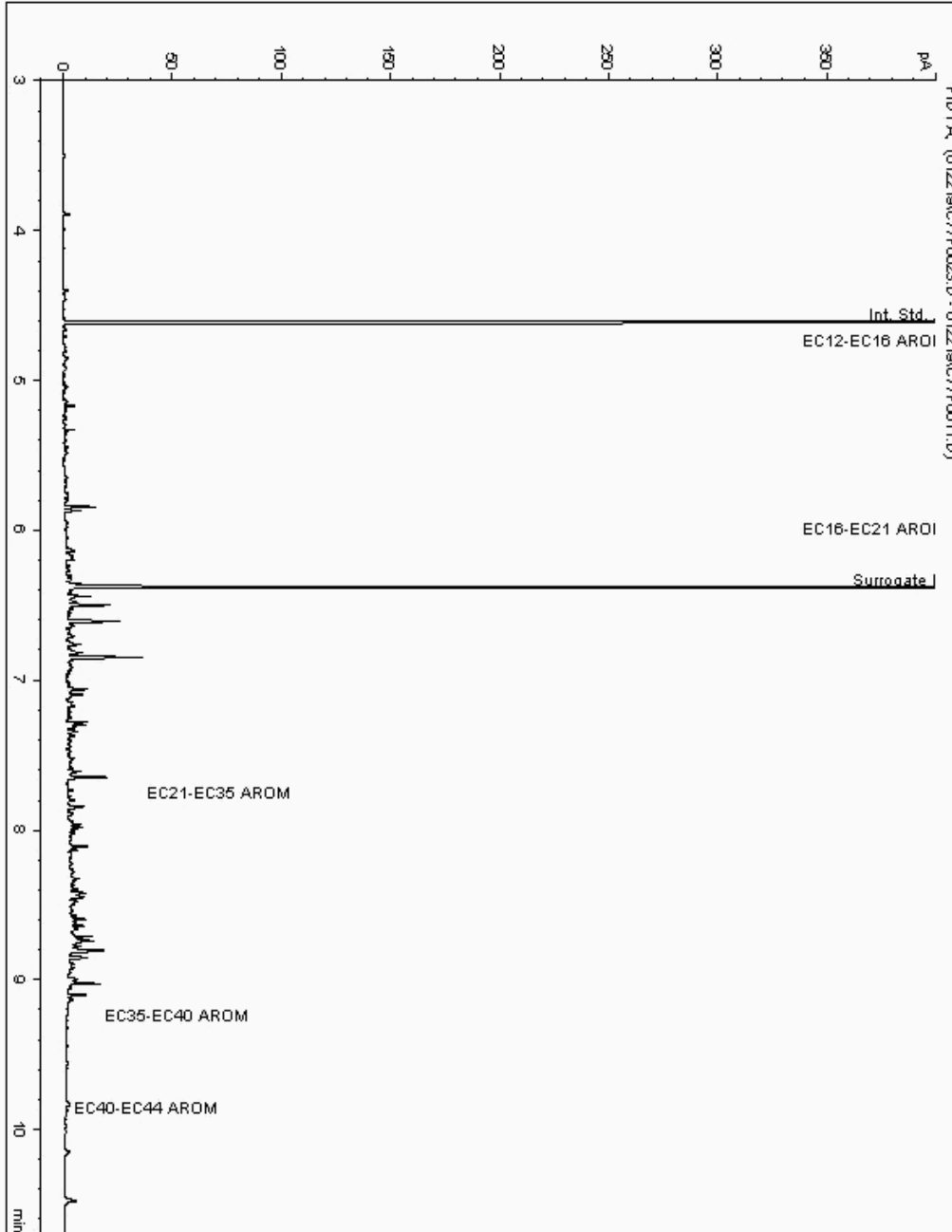
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19153813
Sample ID : BH233

Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977437-
Date Acquired : 1/22/2019 6:08:25 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

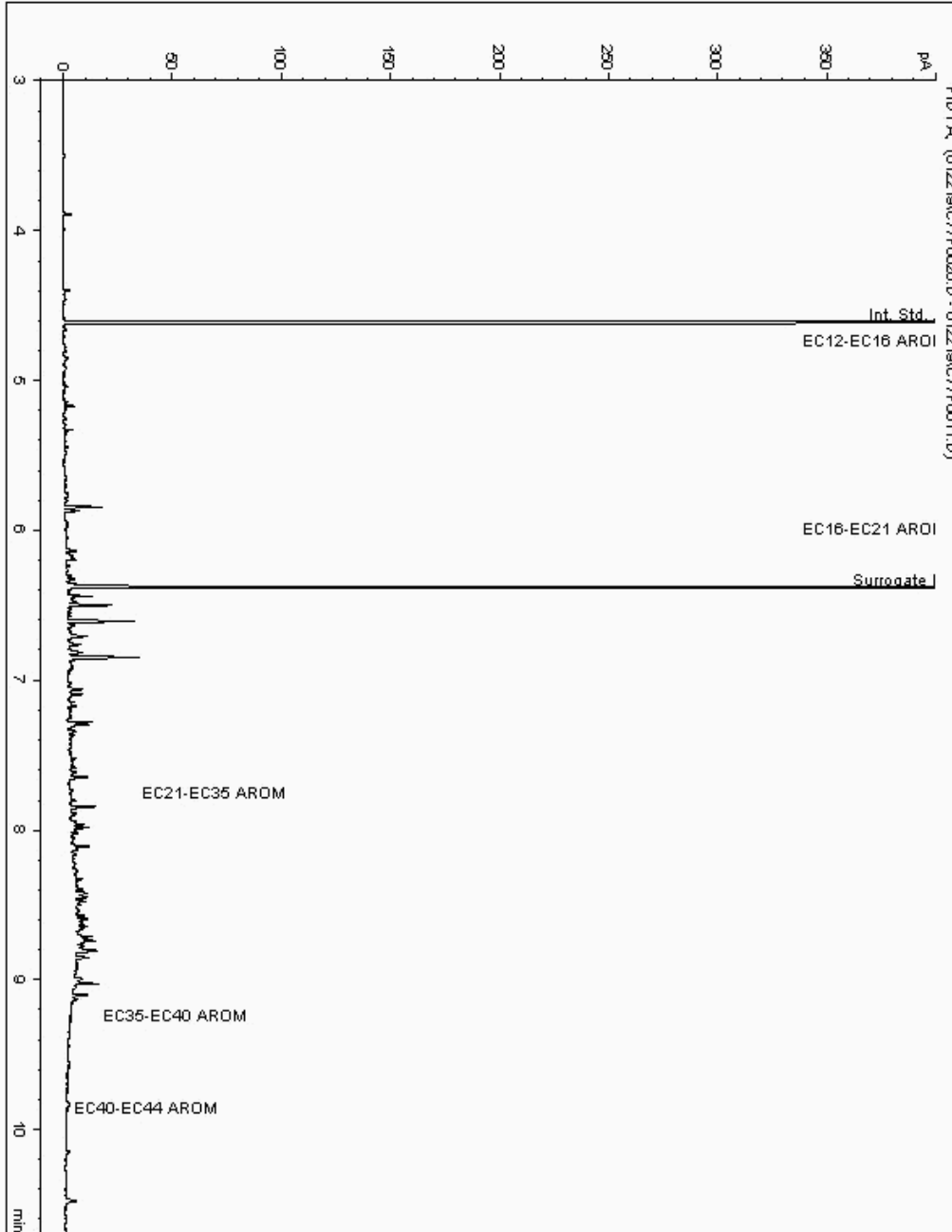
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19153869
Sample ID : BH233

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977465-
Date Acquired : 1/22/2019 7:08:27 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

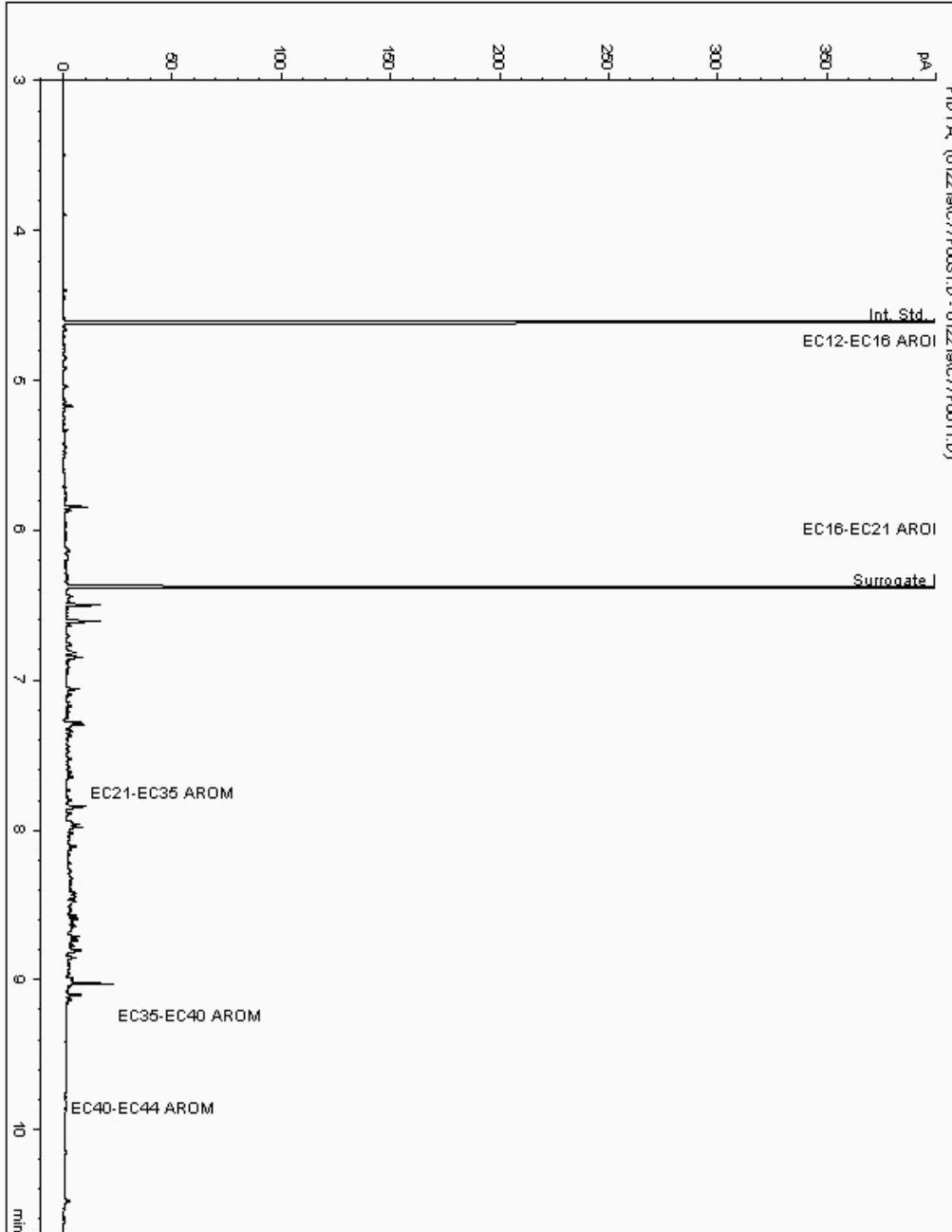
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19153913
Sample ID : BH233

Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977411-
Date Acquired : 1/22/2019 8:48:35 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

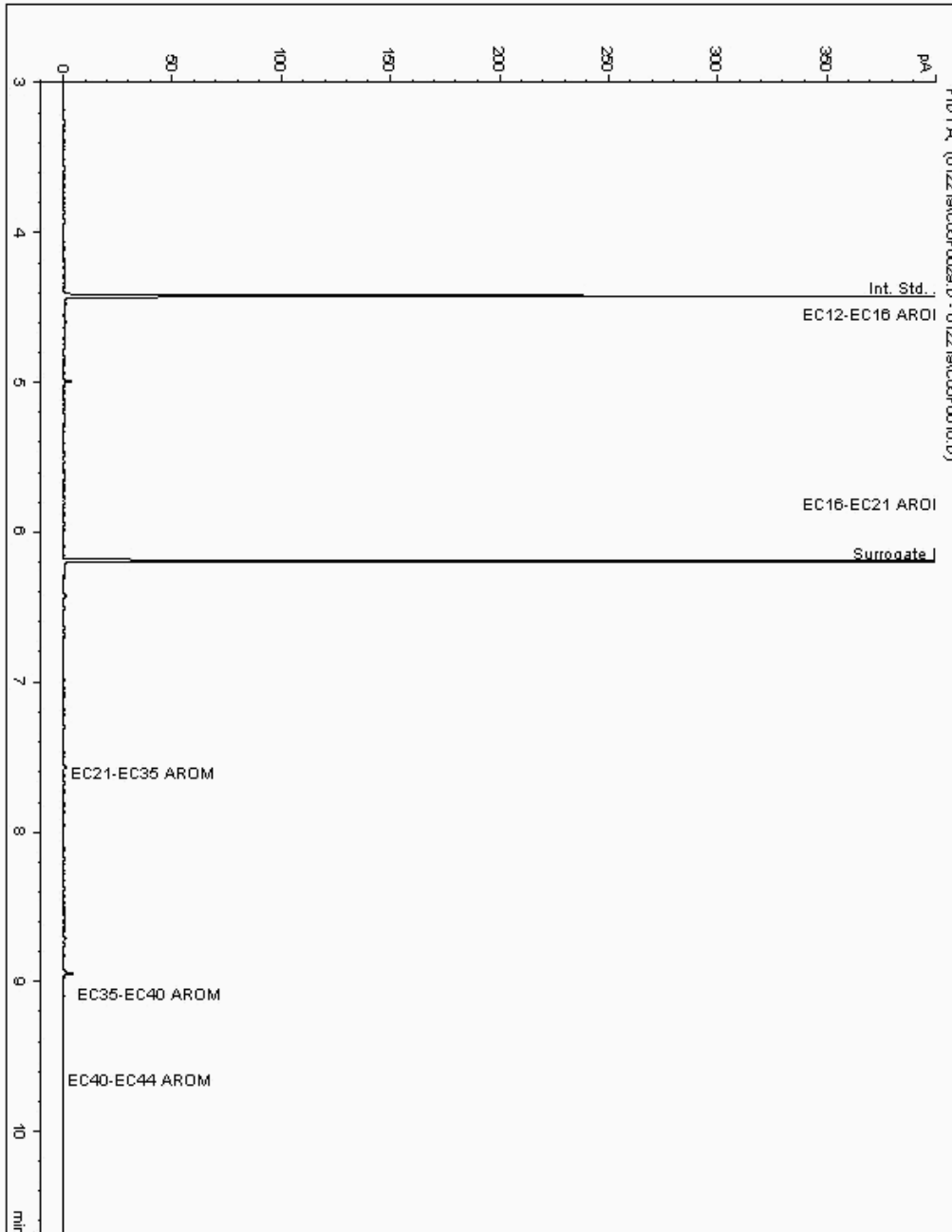
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19153950
Sample ID : BH233

Depth : 11.00 - 12.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977605-
Date Acquired : 22/01/2019 18:38:48 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

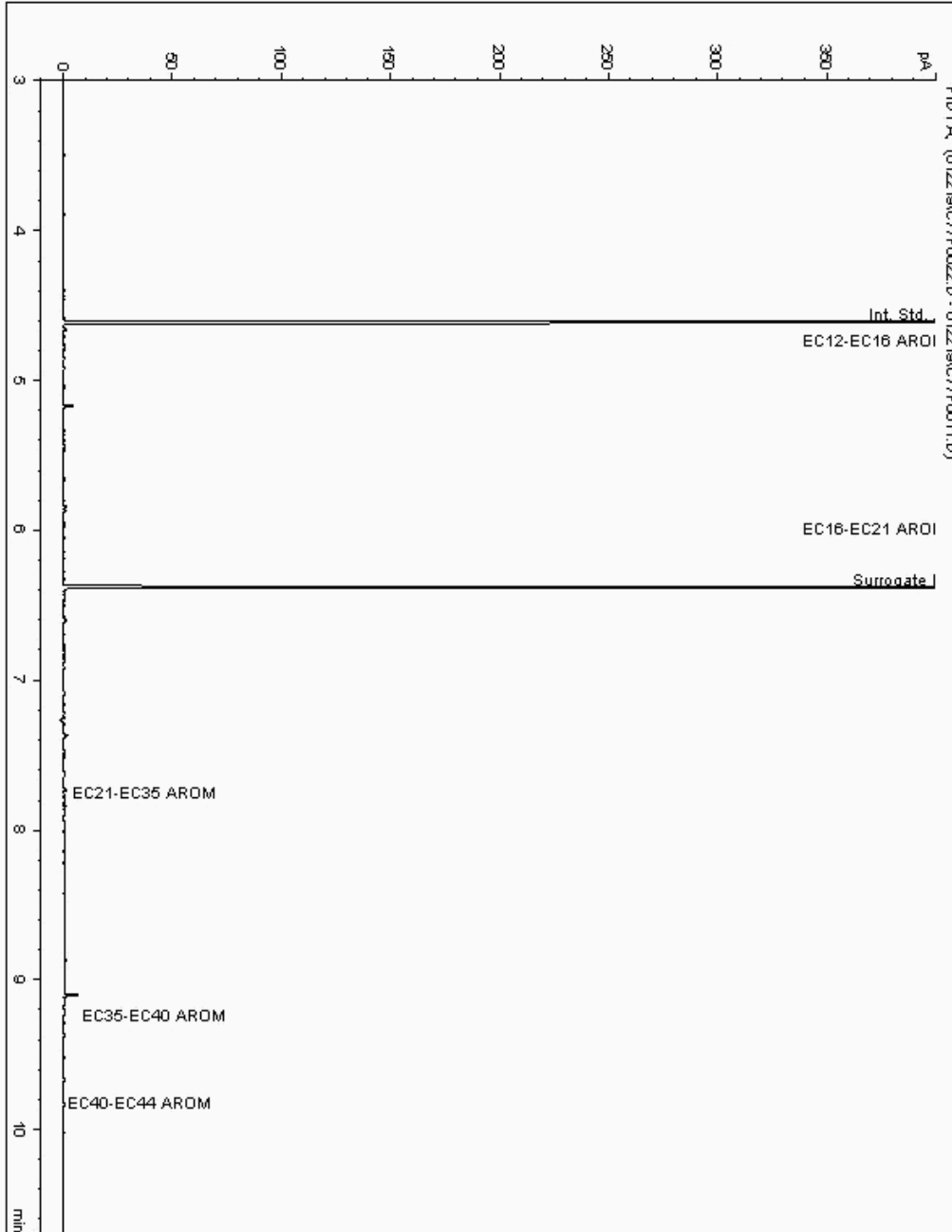
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19153990
Sample ID : BH232

Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977304-
Date Acquired : 1/22/2019 5:48:25 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

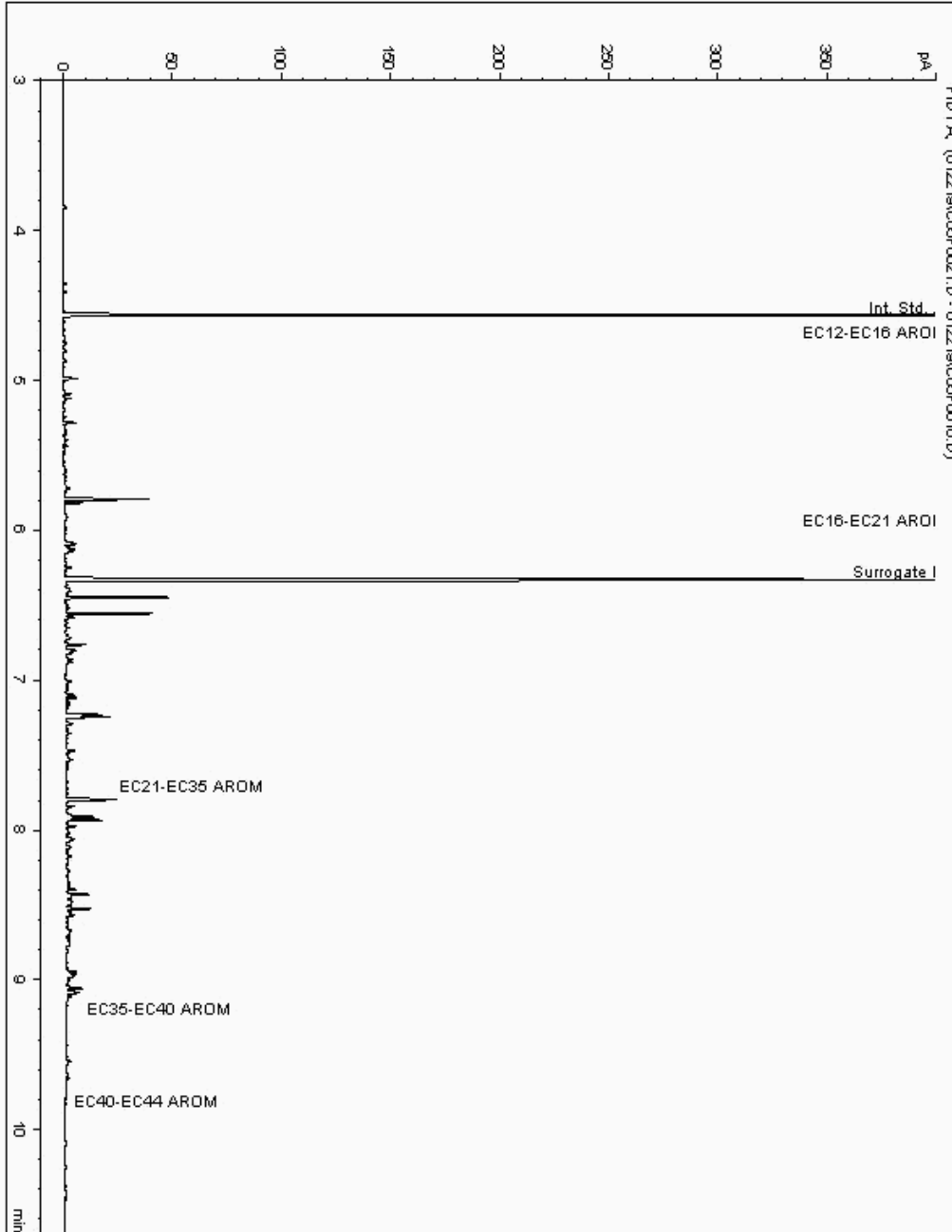
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19154041
Sample ID : BH233

Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977375-
Date Acquired : 22/01/2019 17:41:05 PM
Units : ppb
Dilution: BH233[0.00 - 0.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

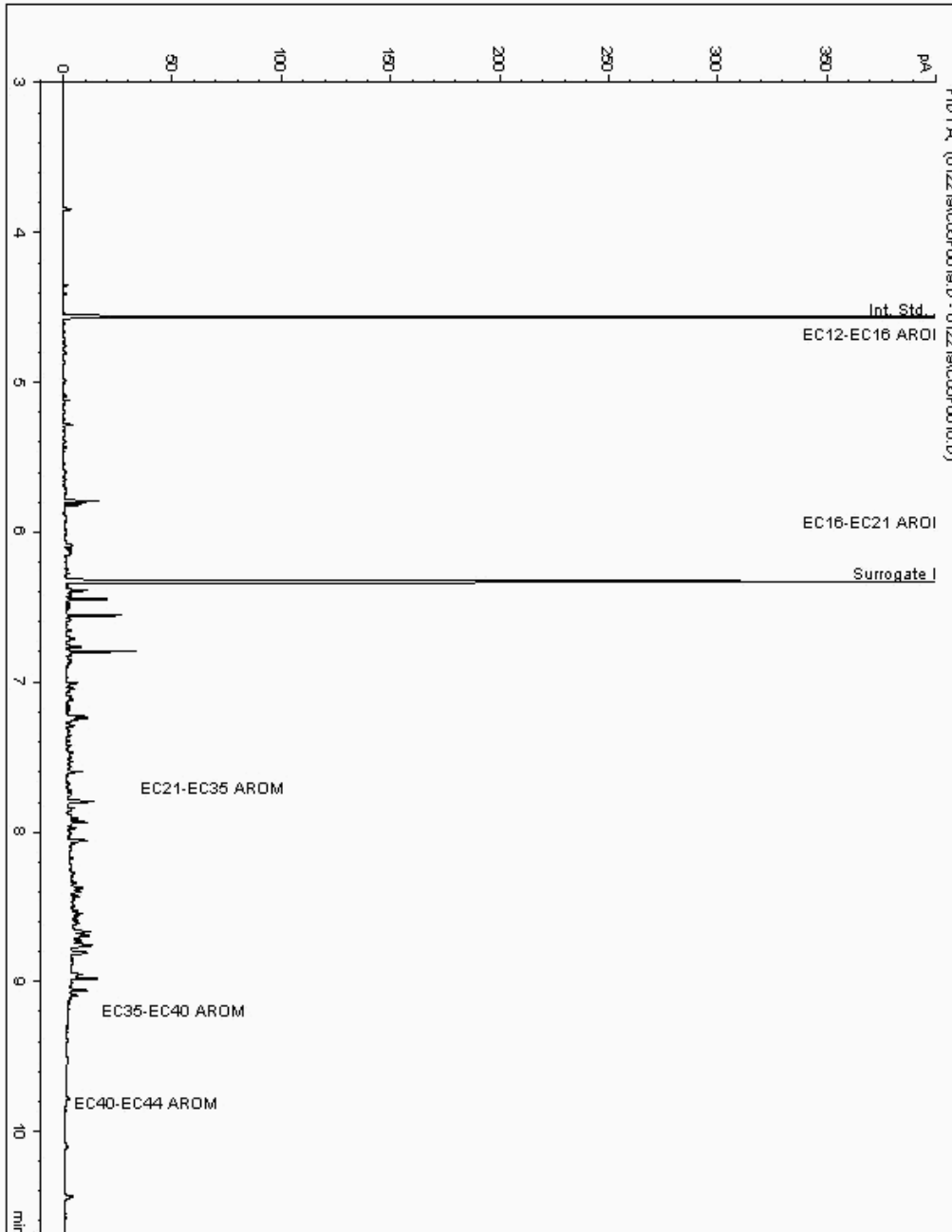
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19154076
Sample ID : BH233

Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977507-
Date Acquired : 22/01/2019 17:08:19 PM
Units : ppb
Dilution: BH233[3.00 - 4.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

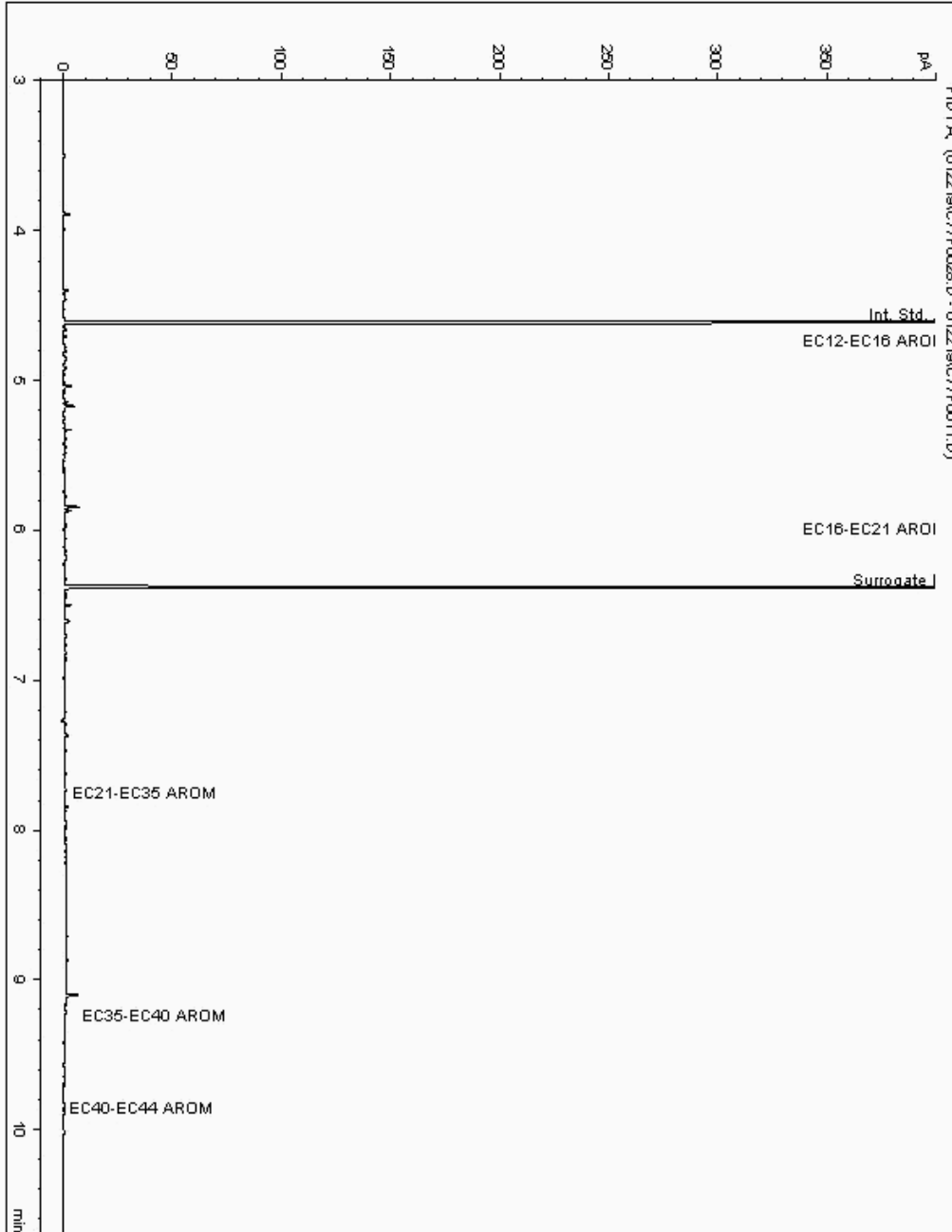
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19154137
Sample ID : BH232

Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977330-
Date Acquired : 1/22/2019 7:48:26 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

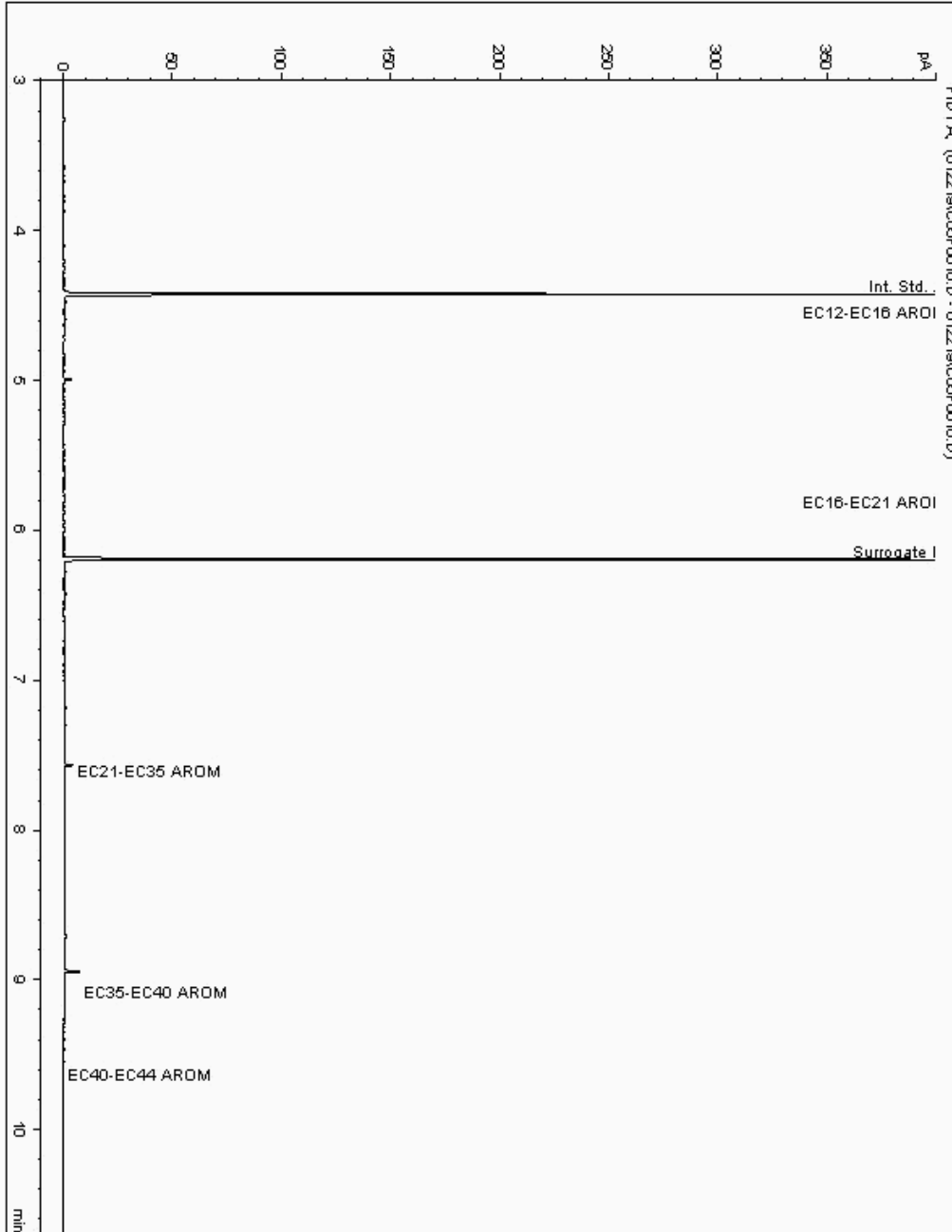
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19154174
Sample ID : BH233

Depth : 12.50 - 13.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17977628-
Date Acquired : 22/01/2019 14:31:39 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

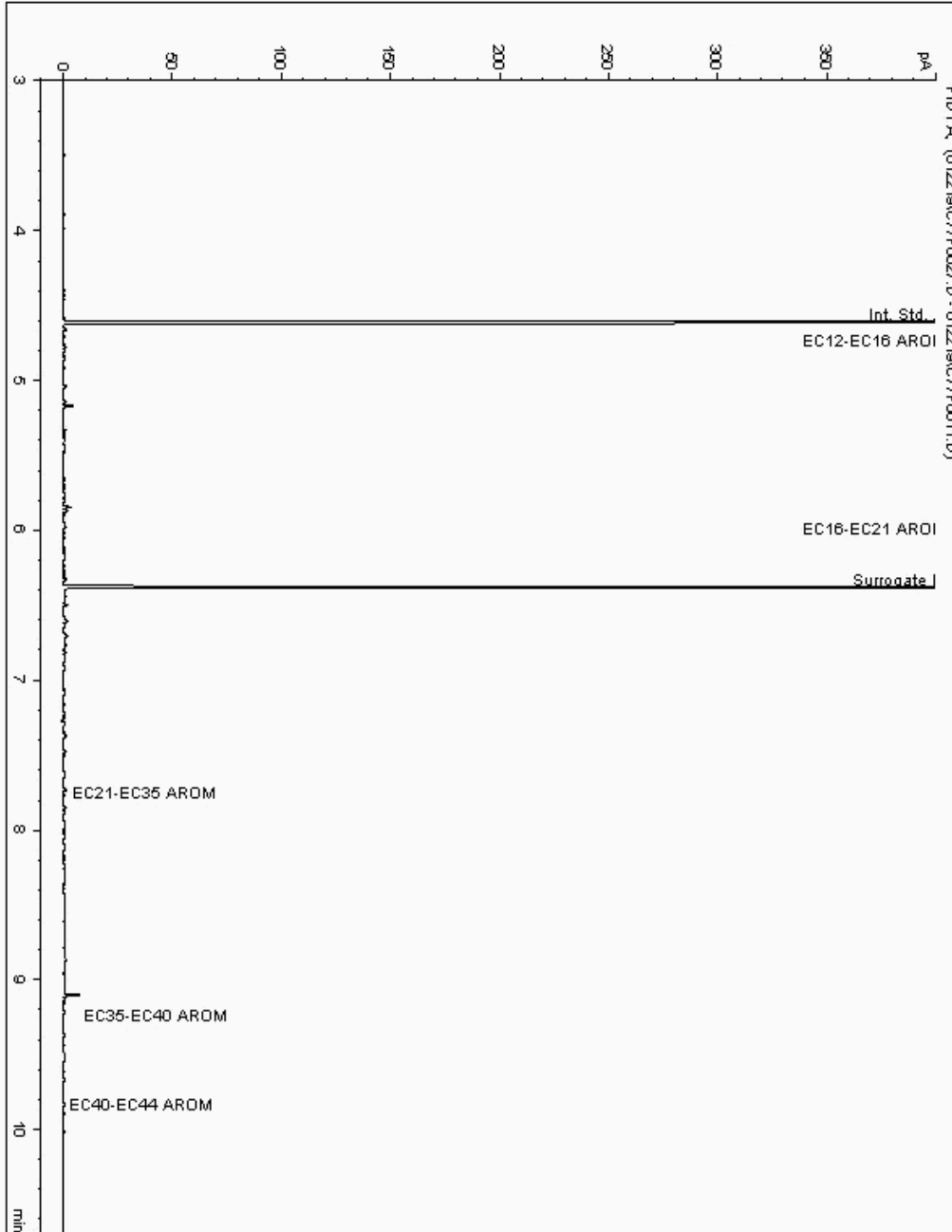
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19154218
Sample ID : BH232

Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17977225-
Date Acquired : 1/22/2019 7:28:25 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

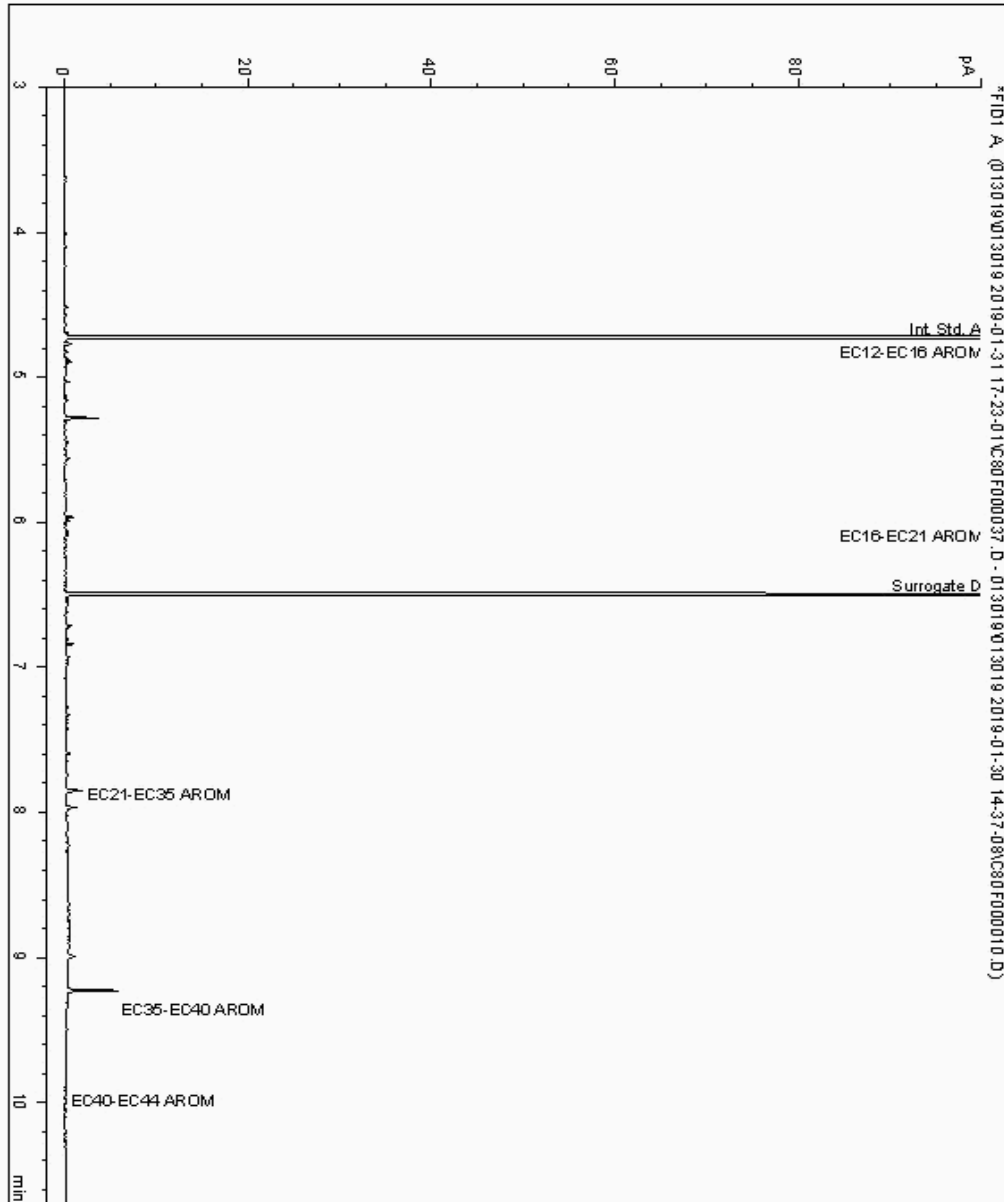
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19196091
Sample ID : BH232

Depth : 12.50 - 13.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 18036369-
Date Acquired : 31/01/19 12:27:05
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

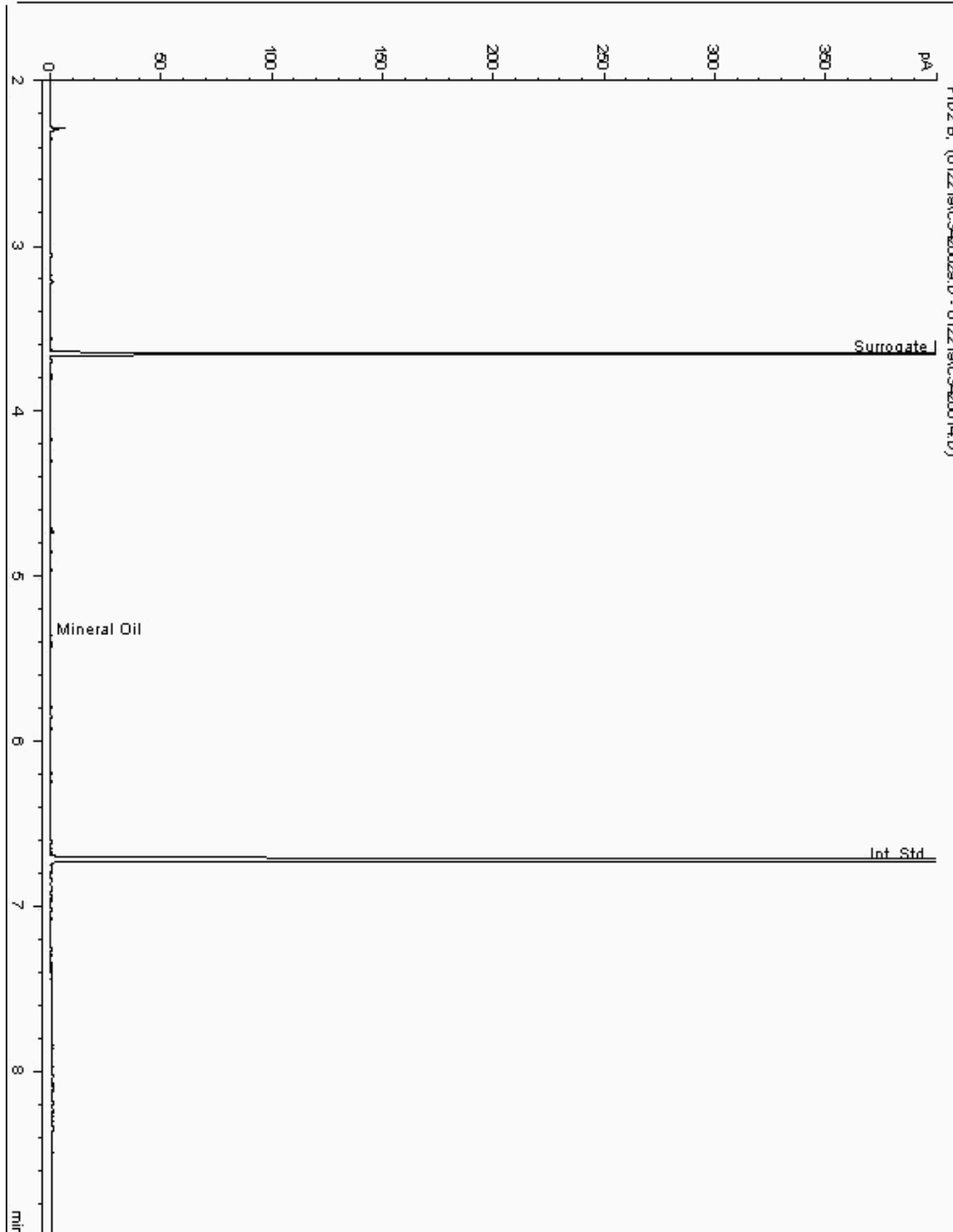
Analysis: Mineral Oil

Sample No : 19141346
Sample ID : BH232

Depth : 8.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977252-
Date Acquired : 22/01/2019 15:57:46 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

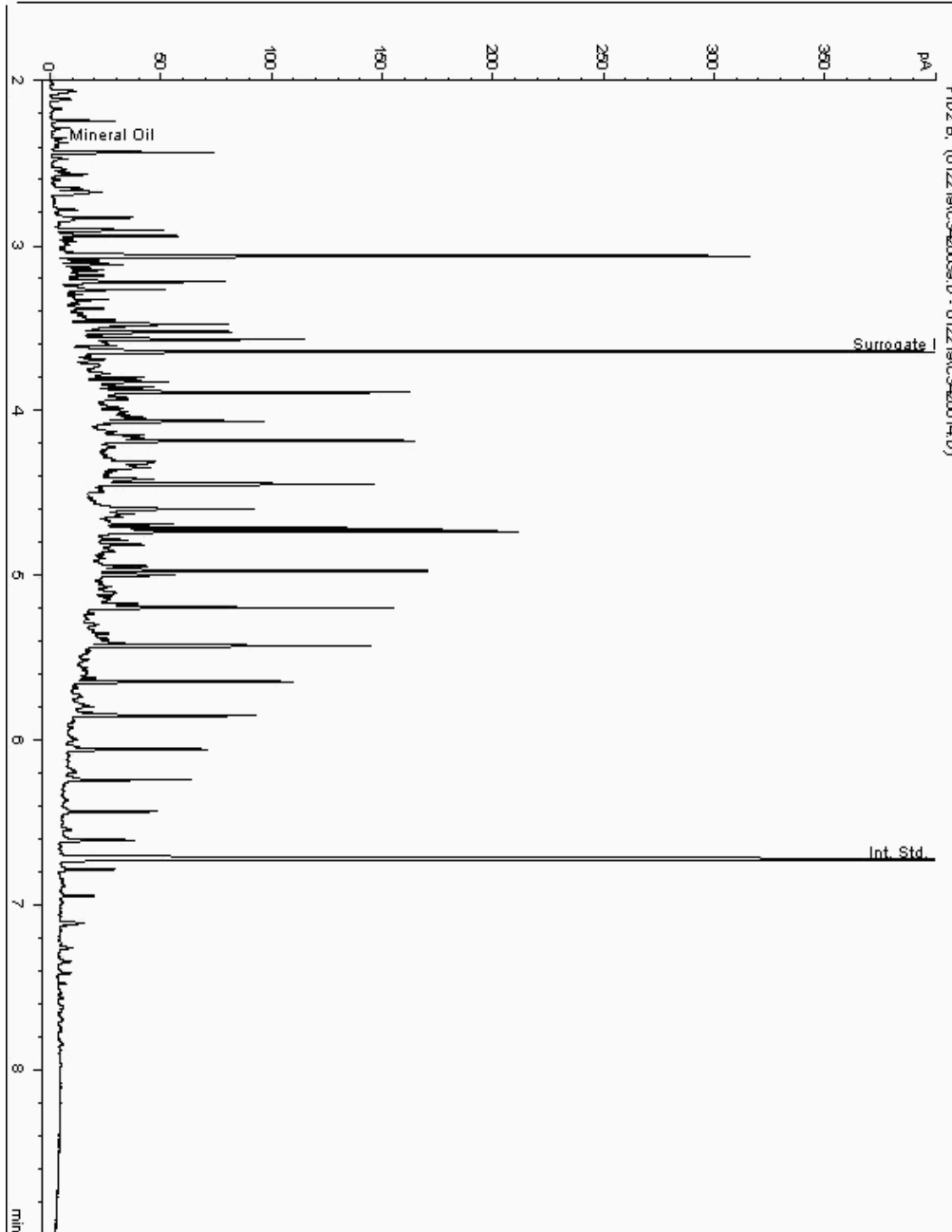
Analysis: Mineral Oil

Sample No : 19141466
Sample ID : BH232

Depth : 0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977064-
Date Acquired : 22/01/2019 19:14:25 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

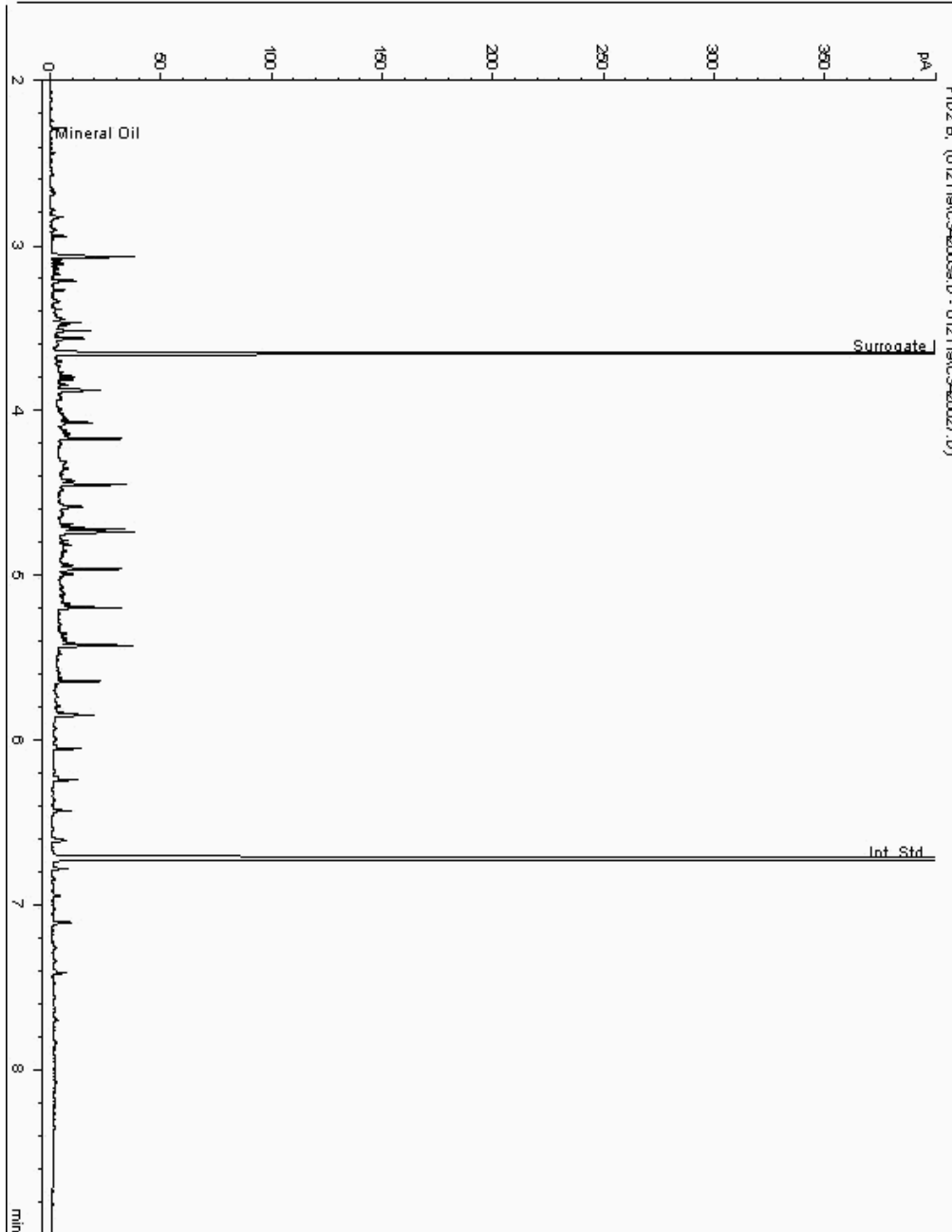
Analysis: Mineral Oil

Sample No : 19141543
Sample ID : BH232

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977120-
Date Acquired : 21/01/2019 18:54:47 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

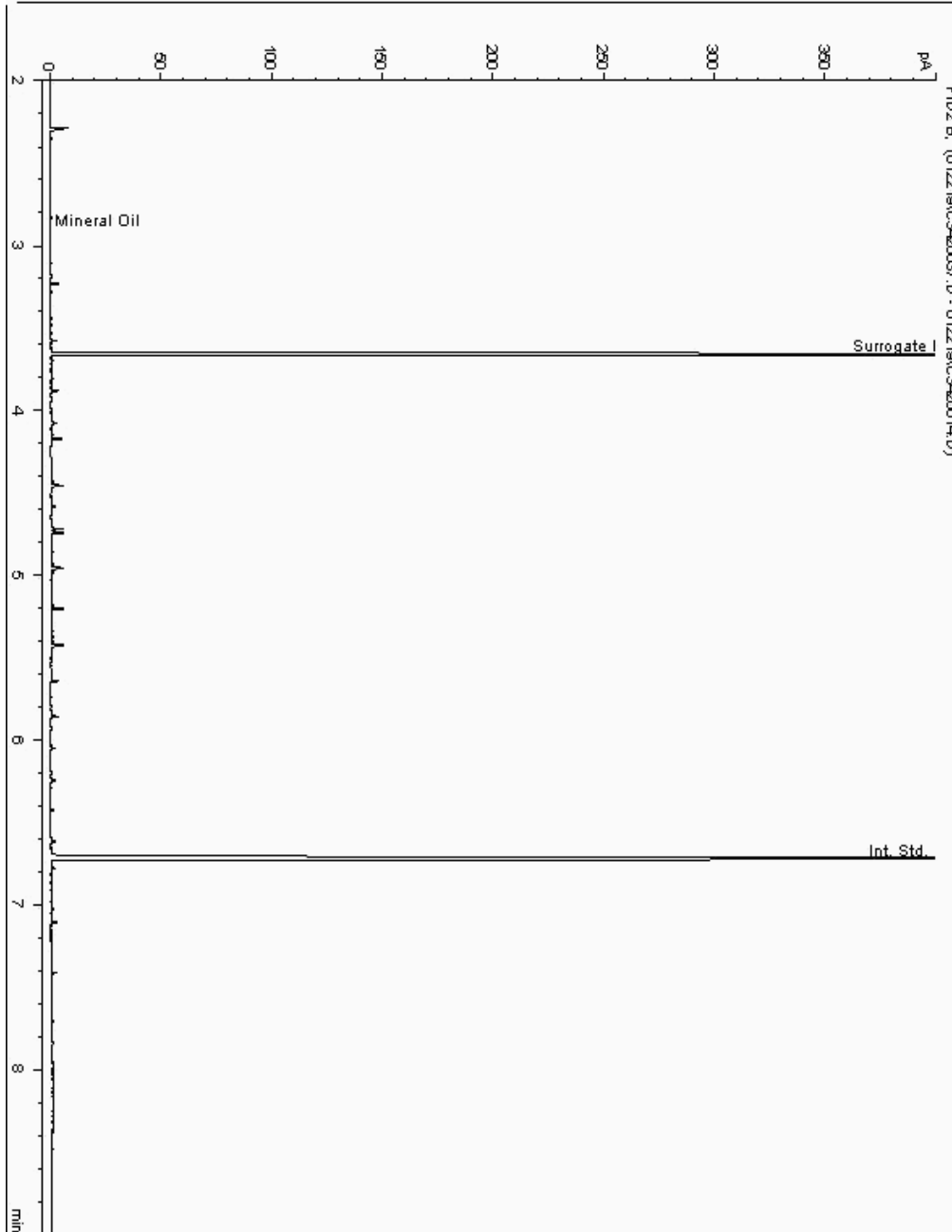
Analysis: Mineral Oil

Sample No : 19141684
Sample ID : BH232

Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977173-
Date Acquired : 22/01/2019 18:40:21 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

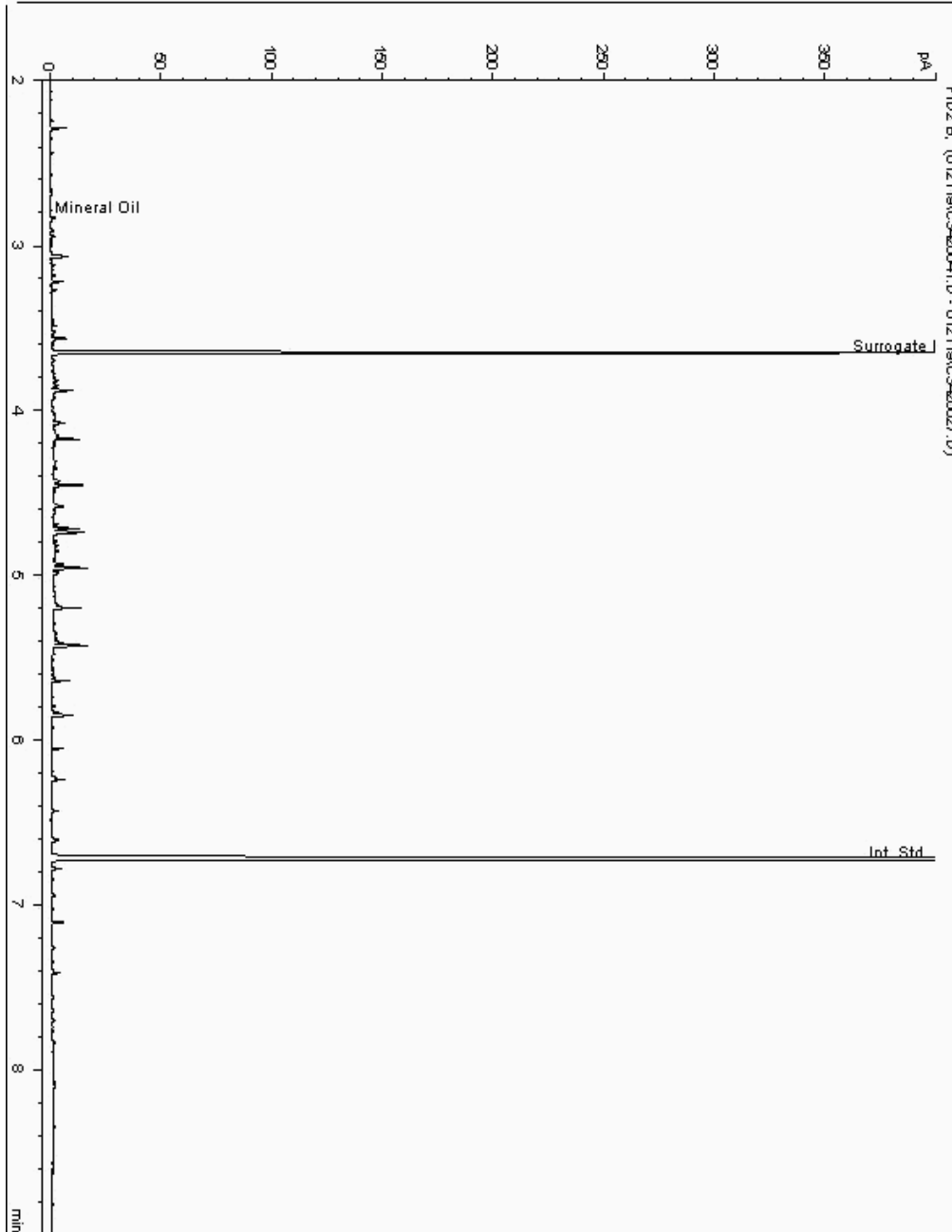
Analysis: Mineral Oil

Sample No : 19142248
Sample ID : BH232

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977150-
Date Acquired : 21/01/2019 19:28:27 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

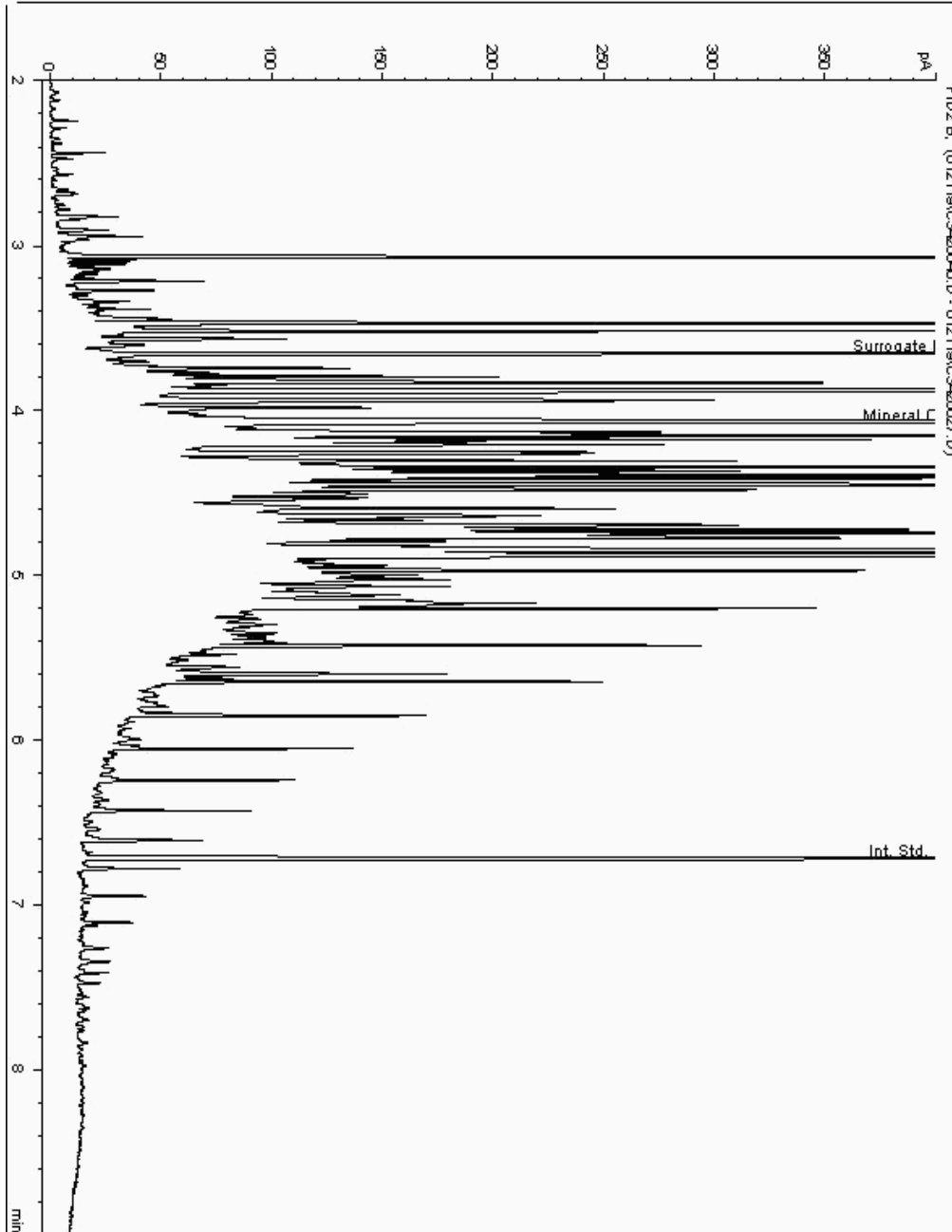
Analysis: Mineral Oil

Sample No : 19142476
Sample ID : BH232

Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977041-
Date Acquired : 21/01/2019 20:35:37 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

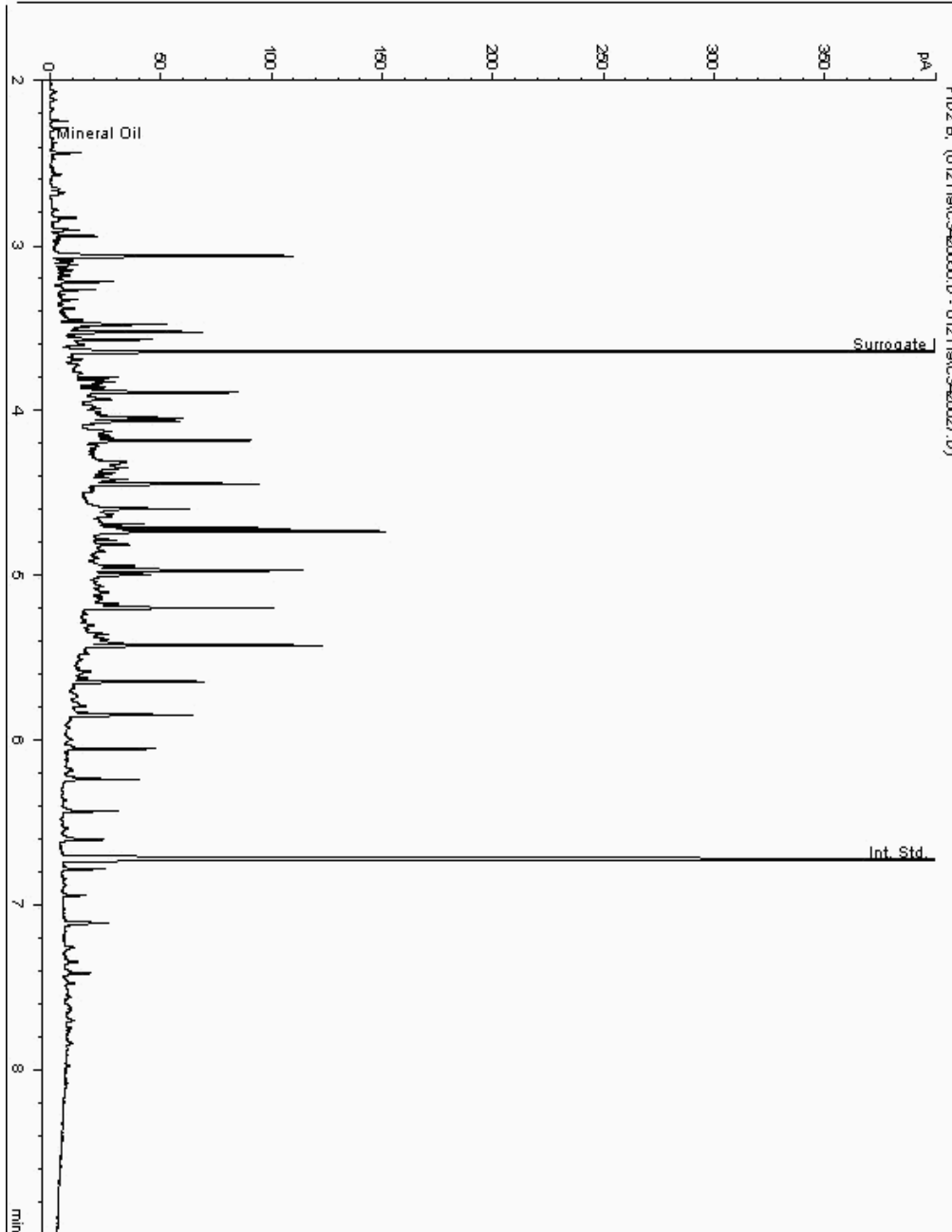
Analysis: Mineral Oil

Sample No : 19142678
Sample ID : BH232

Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977087-
Date Acquired : 21/01/2019 22:03:54 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

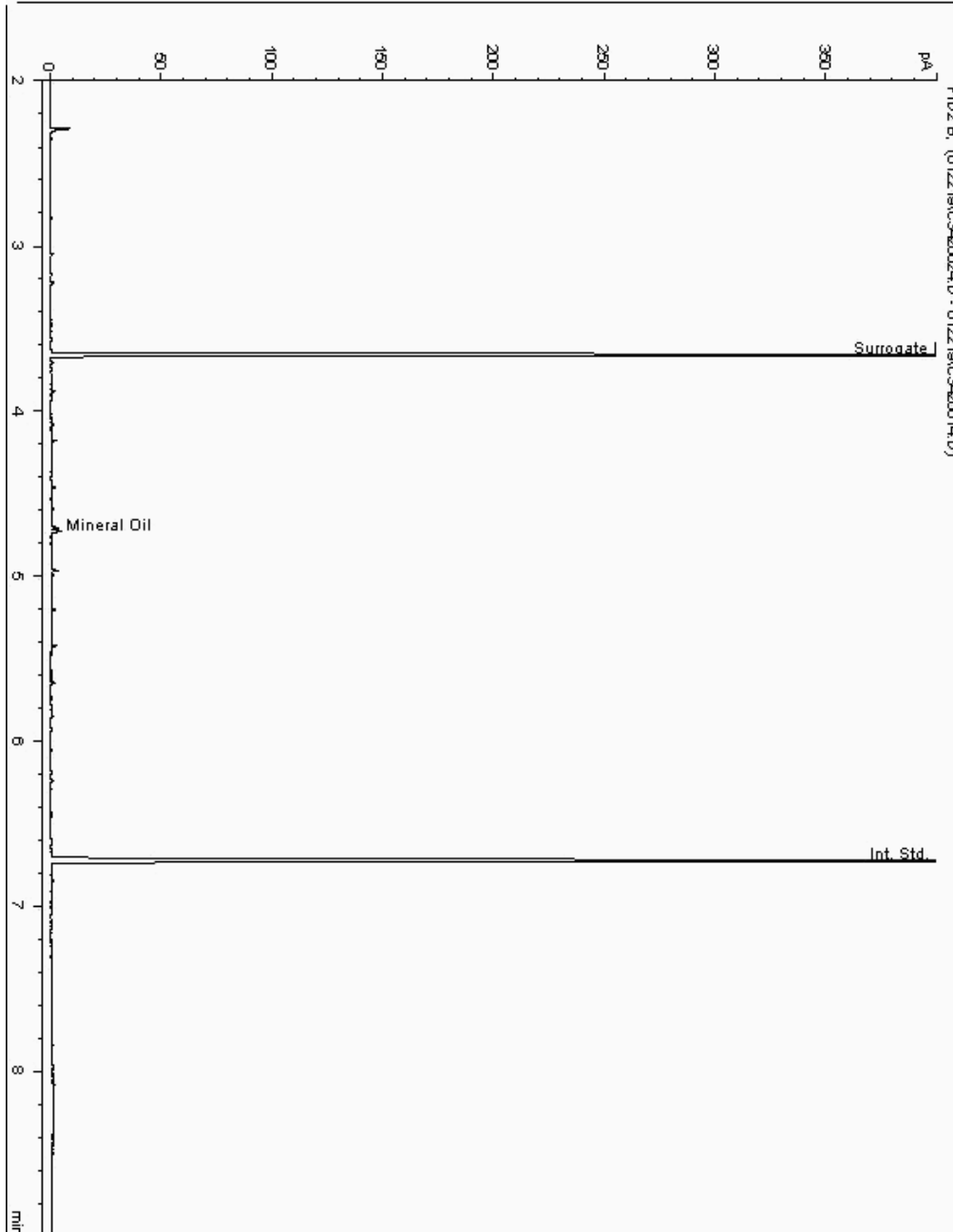
Analysis: Mineral Oil

Sample No : 19142775
Sample ID : BH232

Depth : 10.00 - 12.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977278-
Date Acquired : 22/01/2019 14:26:33 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

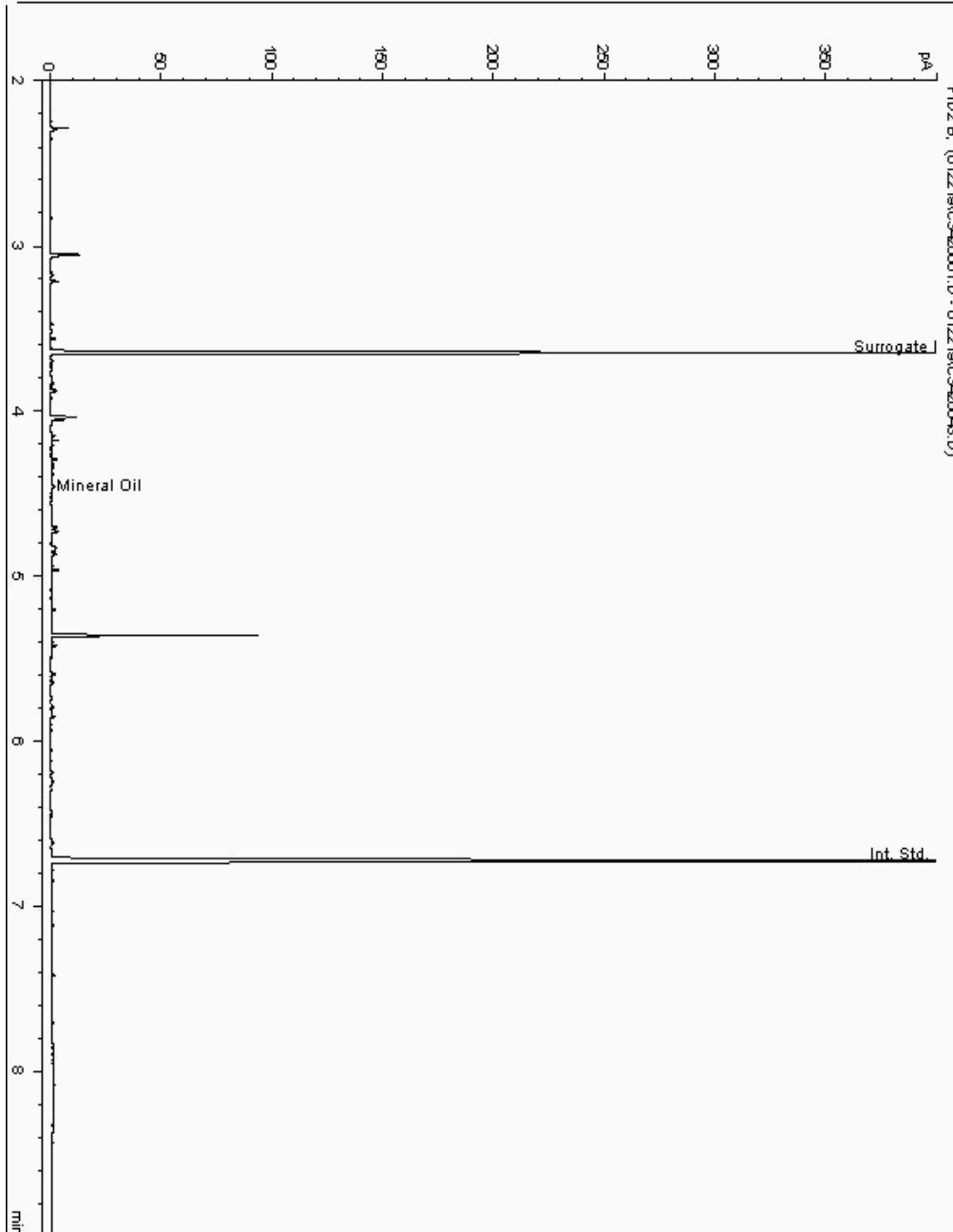
Analysis: Mineral Oil

Sample No : 19143020
Sample ID : BH232

Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977196-
Date Acquired : 23/01/2019 01:51:31 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

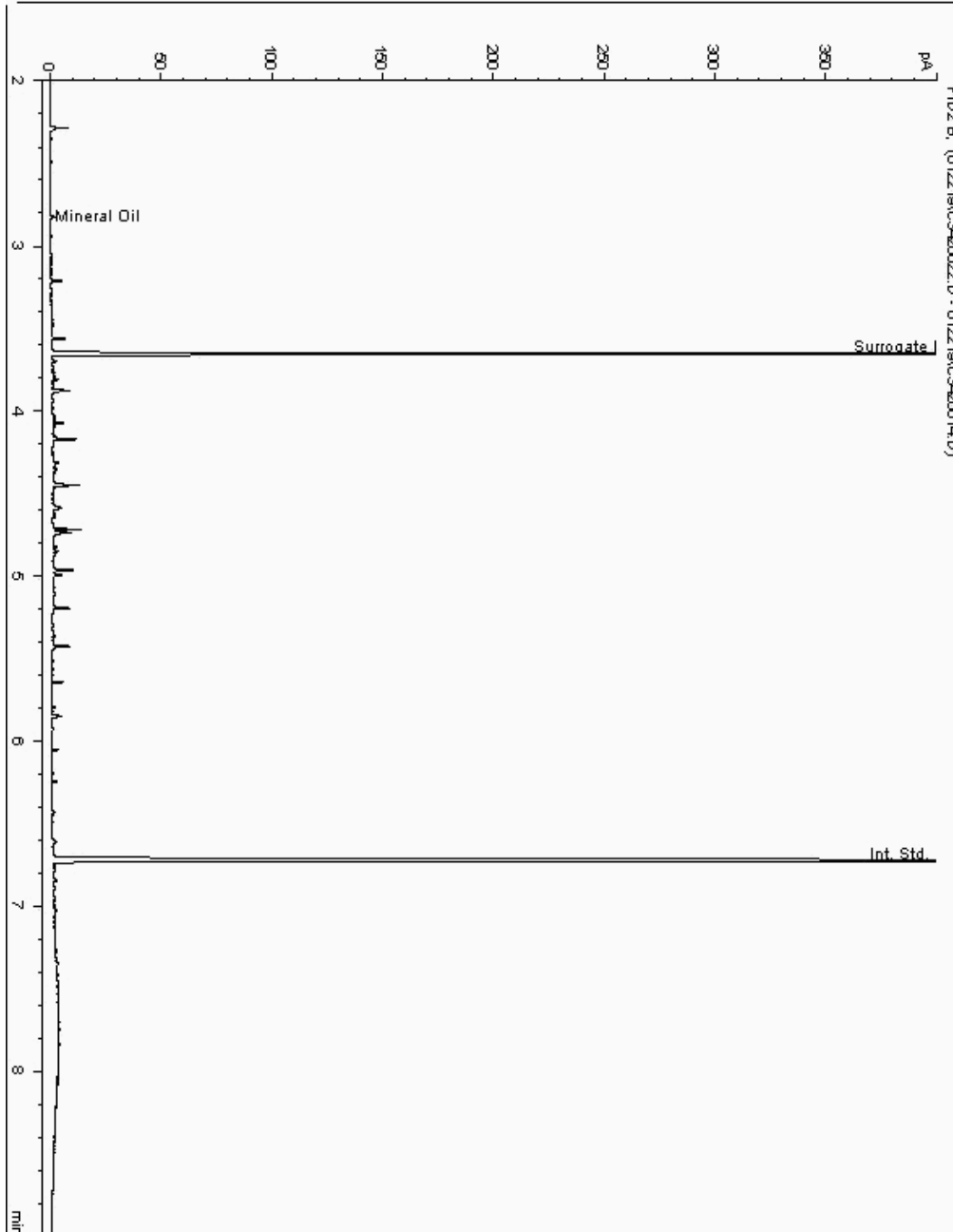
Analysis: Mineral Oil

Sample No : 19143208
Sample ID : BH234

Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17978180-
Date Acquired : 22/01/2019 13:44:42 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

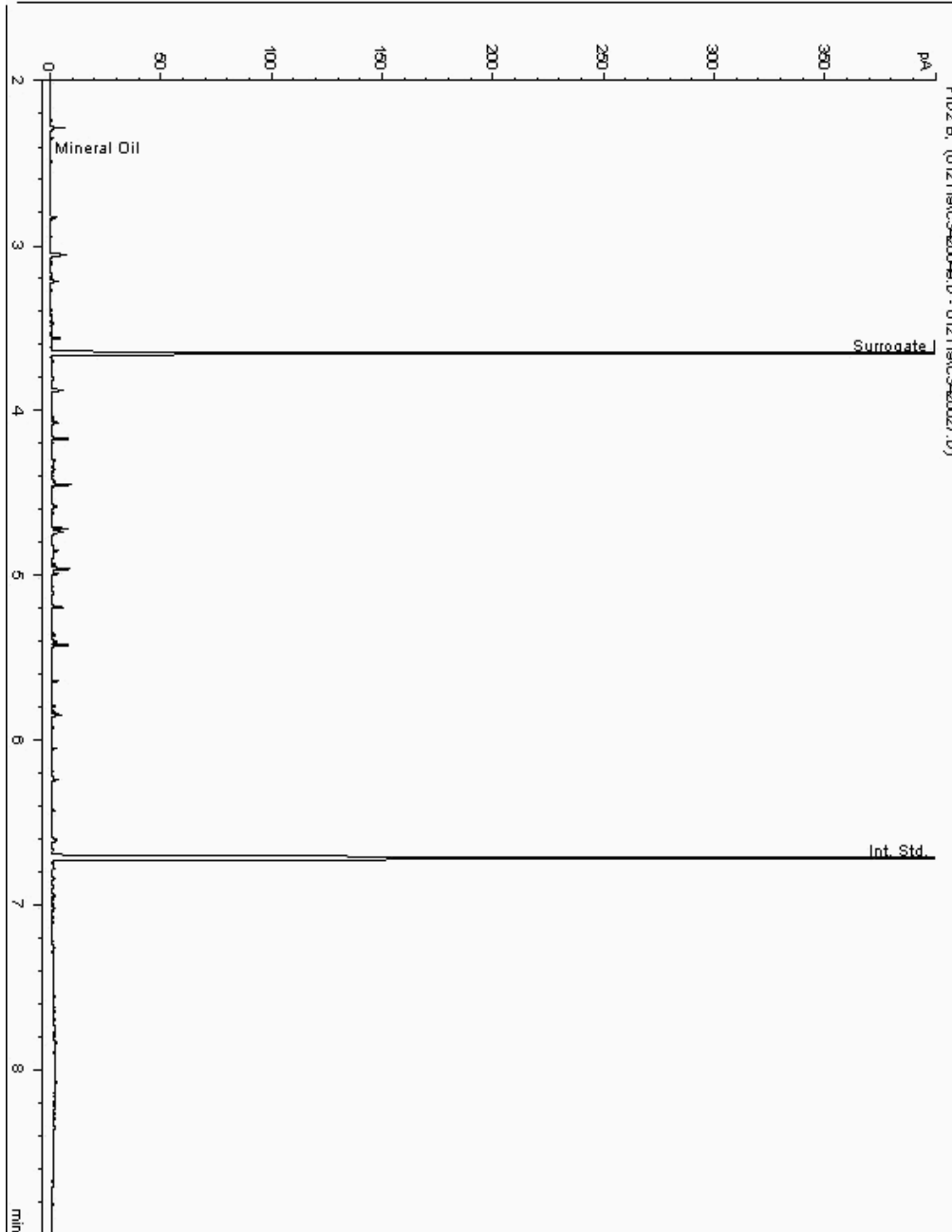
Analysis: Mineral Oil

Sample No : 19143260
Sample ID : BH234

Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17978270-
Date Acquired : 21/01/2019 21:42:59 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

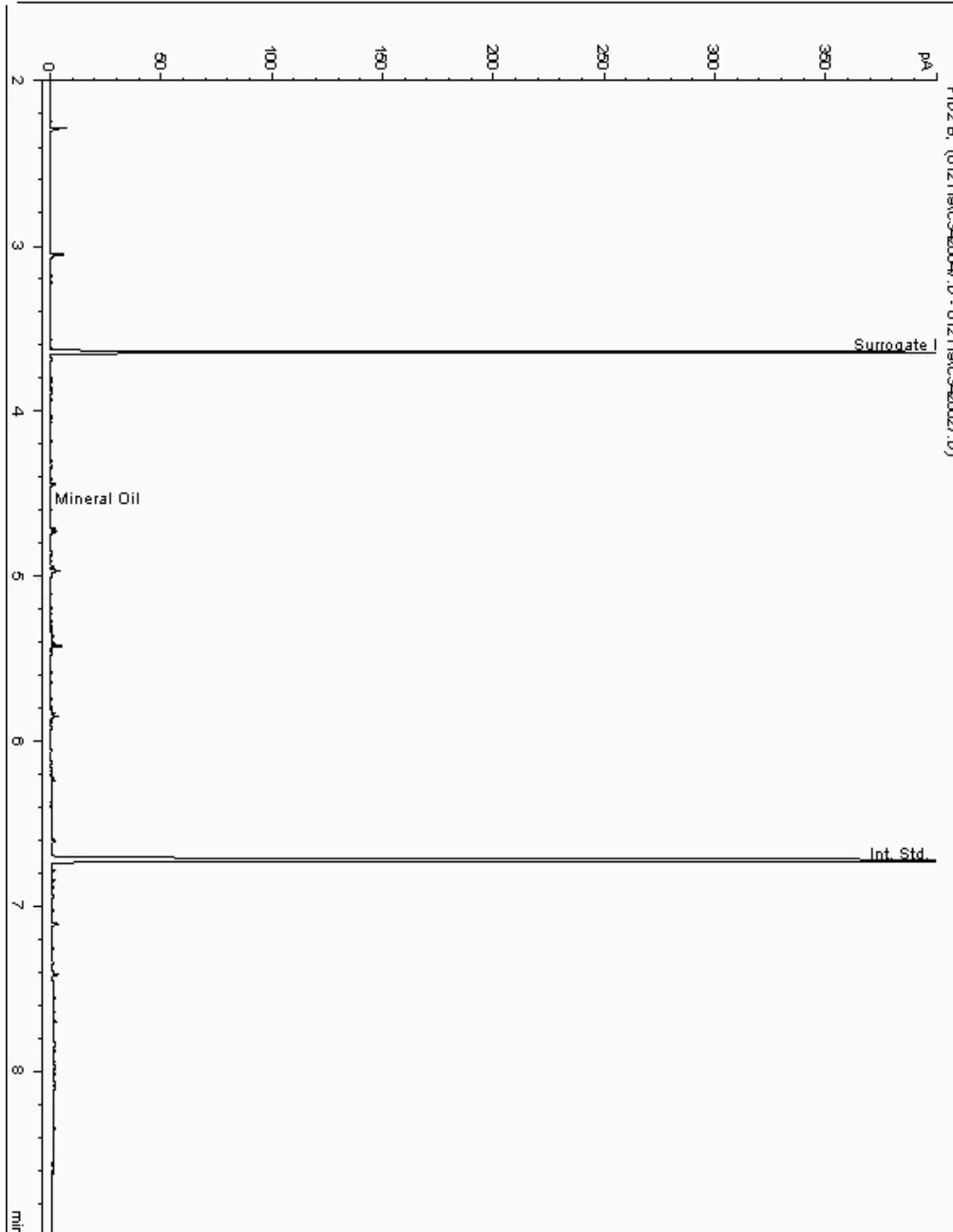
Analysis: Mineral Oil

Sample No : 19143364
Sample ID : BH233

Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977531-
Date Acquired : 21/01/2019 21:09:13 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

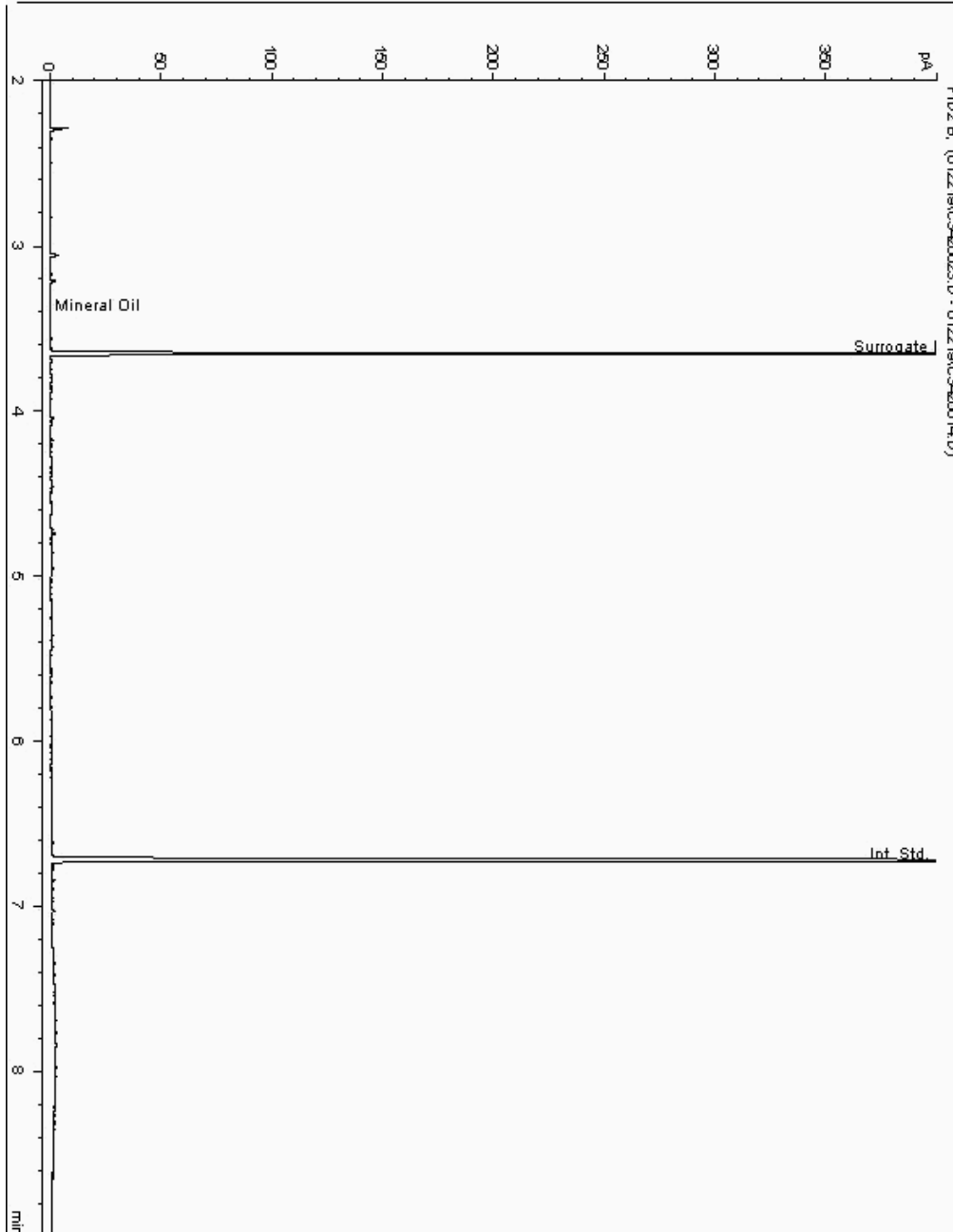
Analysis: Mineral Oil

Sample No : 19143446
Sample ID : BH234

Depth : 8.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17978095-
Date Acquired : 22/01/2019 14:05:39 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

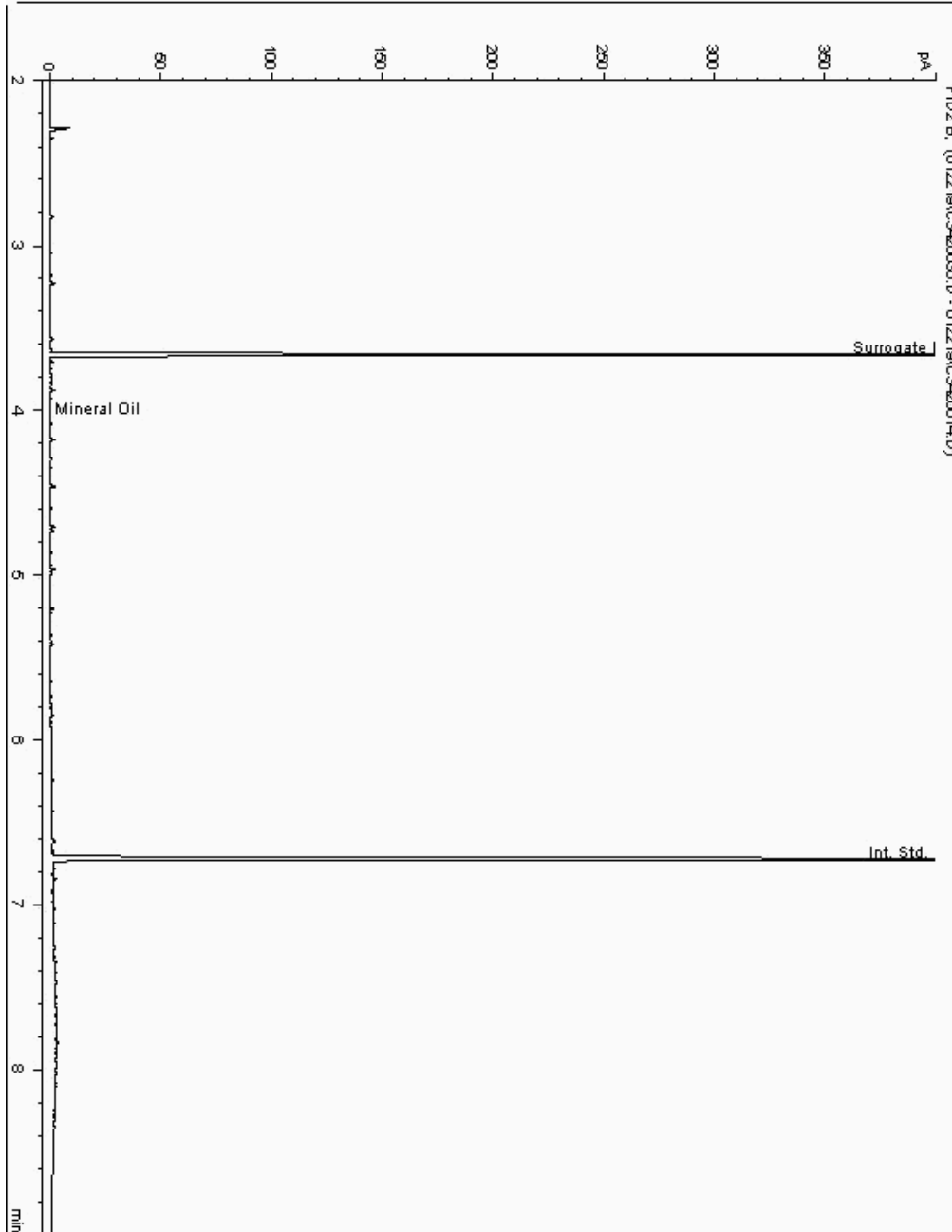
Analysis: Mineral Oil

Sample No : 19143587
Sample ID : BH234

Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17978215-
Date Acquired : 22/01/2019 18:19:25 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

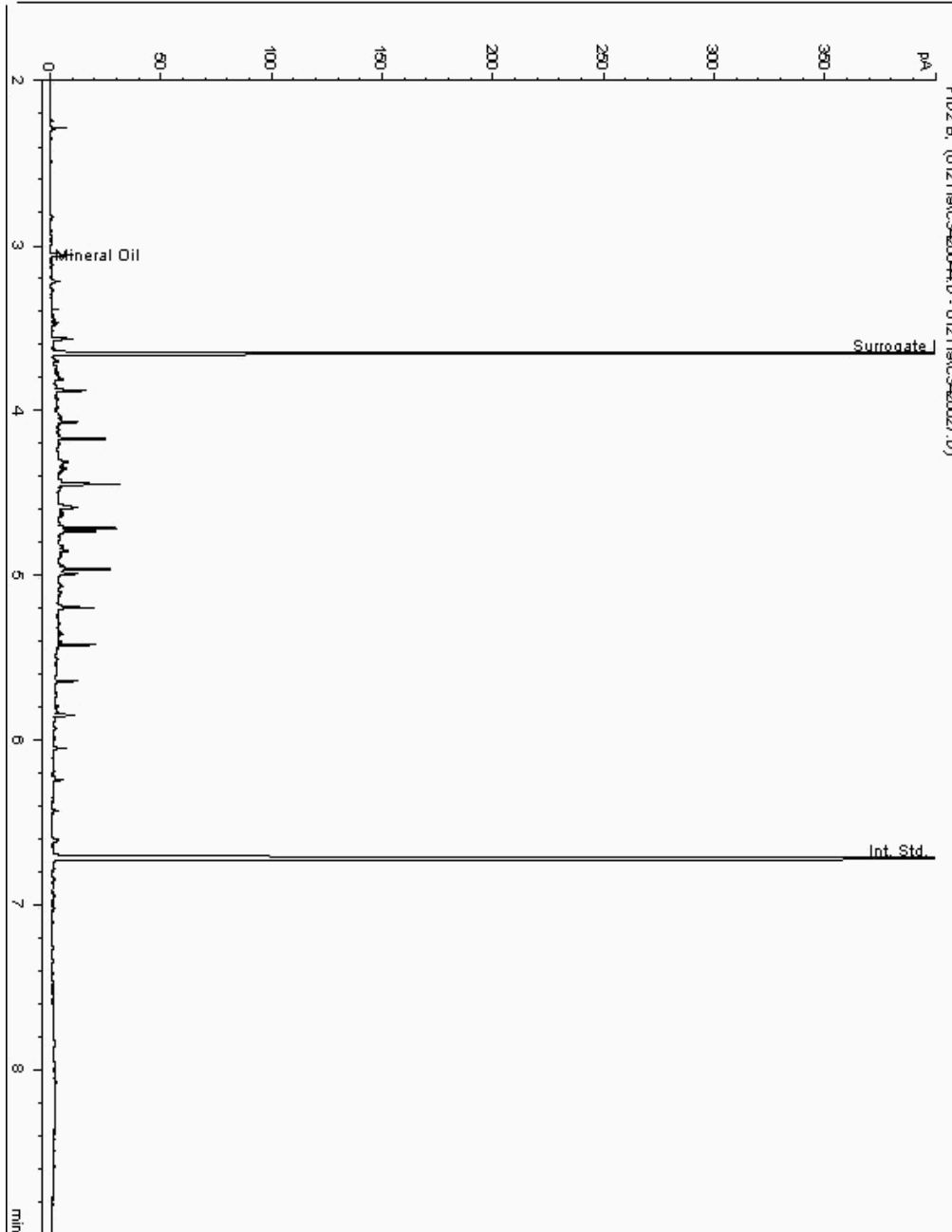
Analysis: Mineral Oil

Sample No : 19143672
Sample ID : BH234

Depth : 0.80 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977715-
Date Acquired : 21/01/2019 20:14:41 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

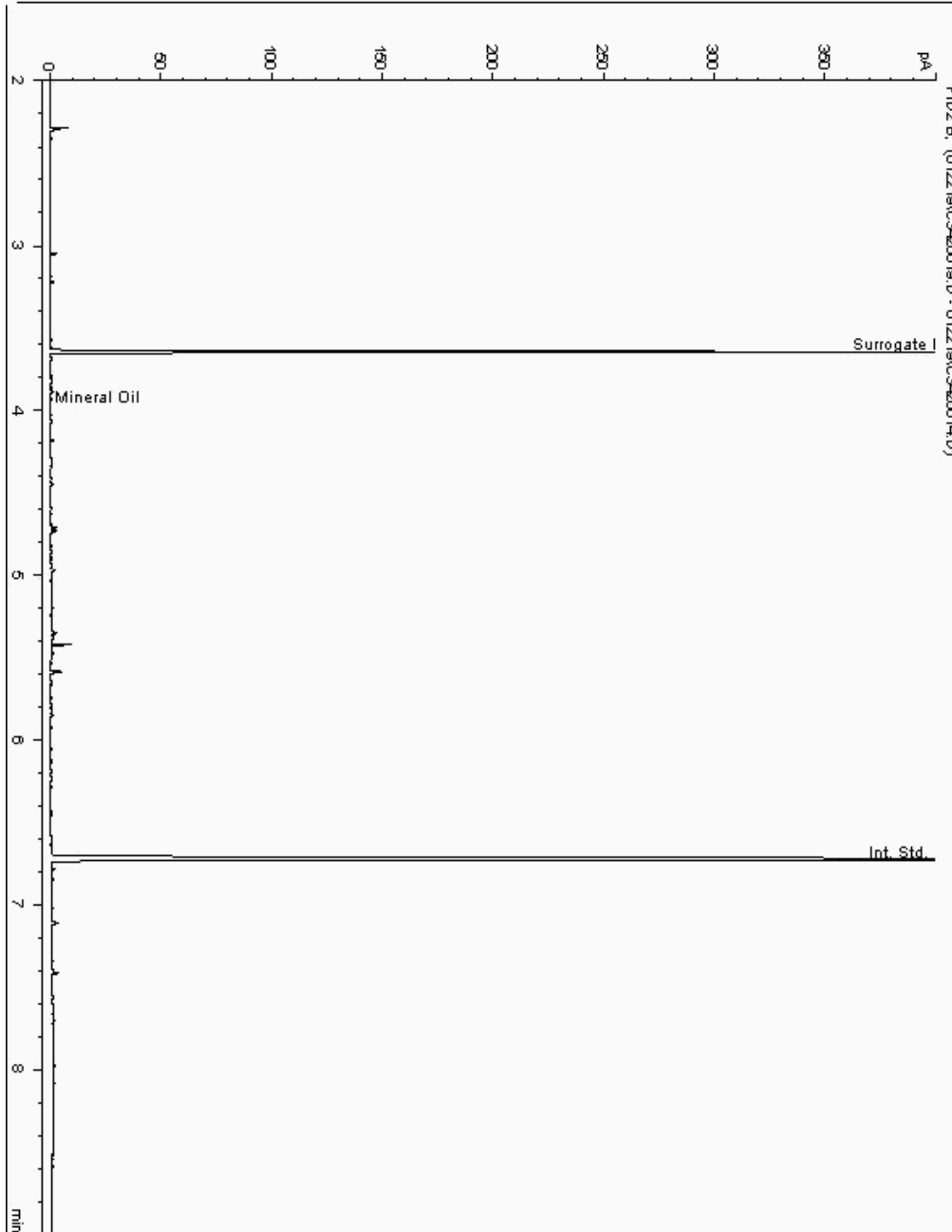
Analysis: Mineral Oil

Sample No : 19143779
Sample ID : BH234

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977817-
Date Acquired : 22/01/2019 12:50:05 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

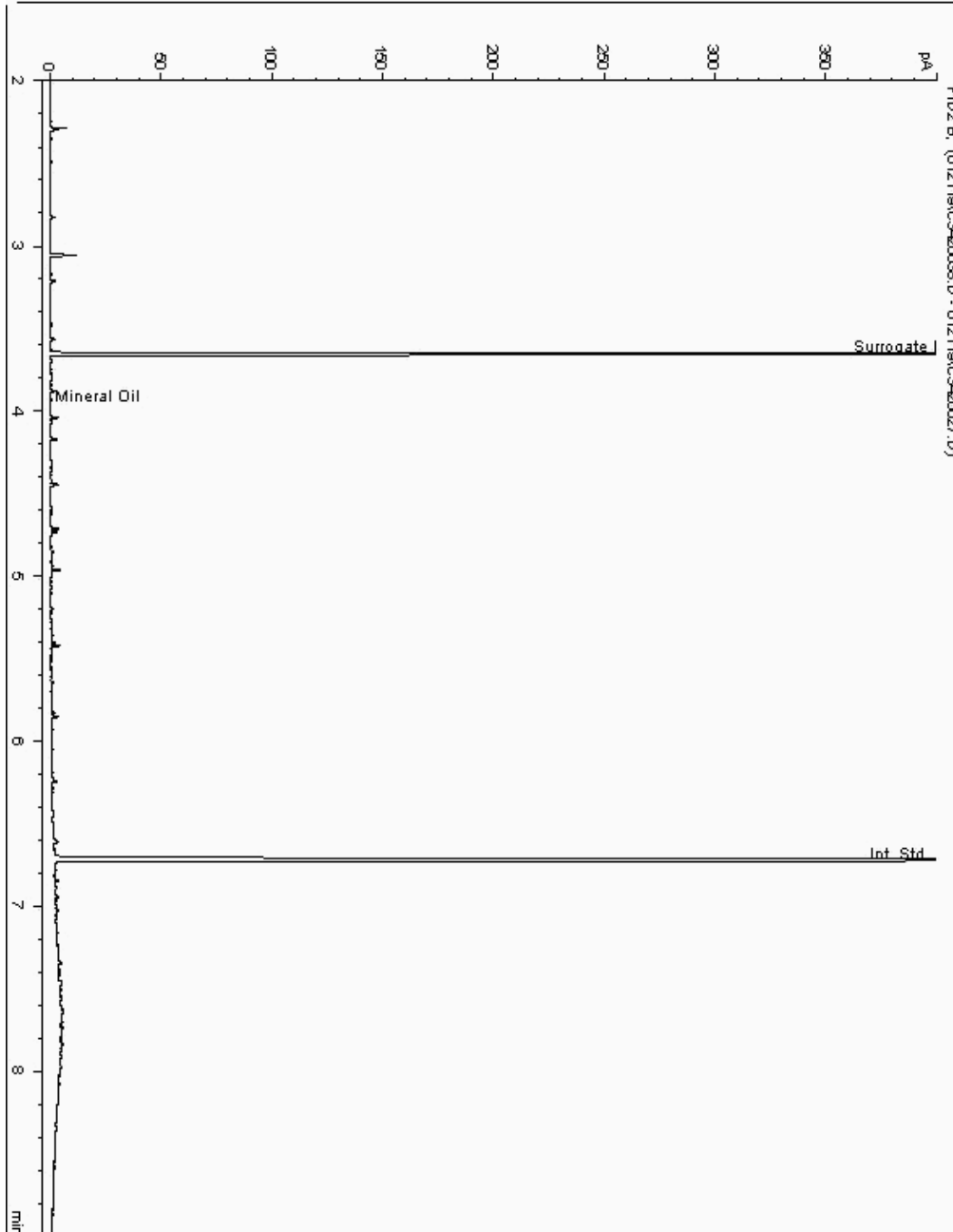
Analysis: Mineral Oil

Sample No : 19143865
Sample ID : BH233

Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977660-
Date Acquired : 21/01/2019 18:33:44 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

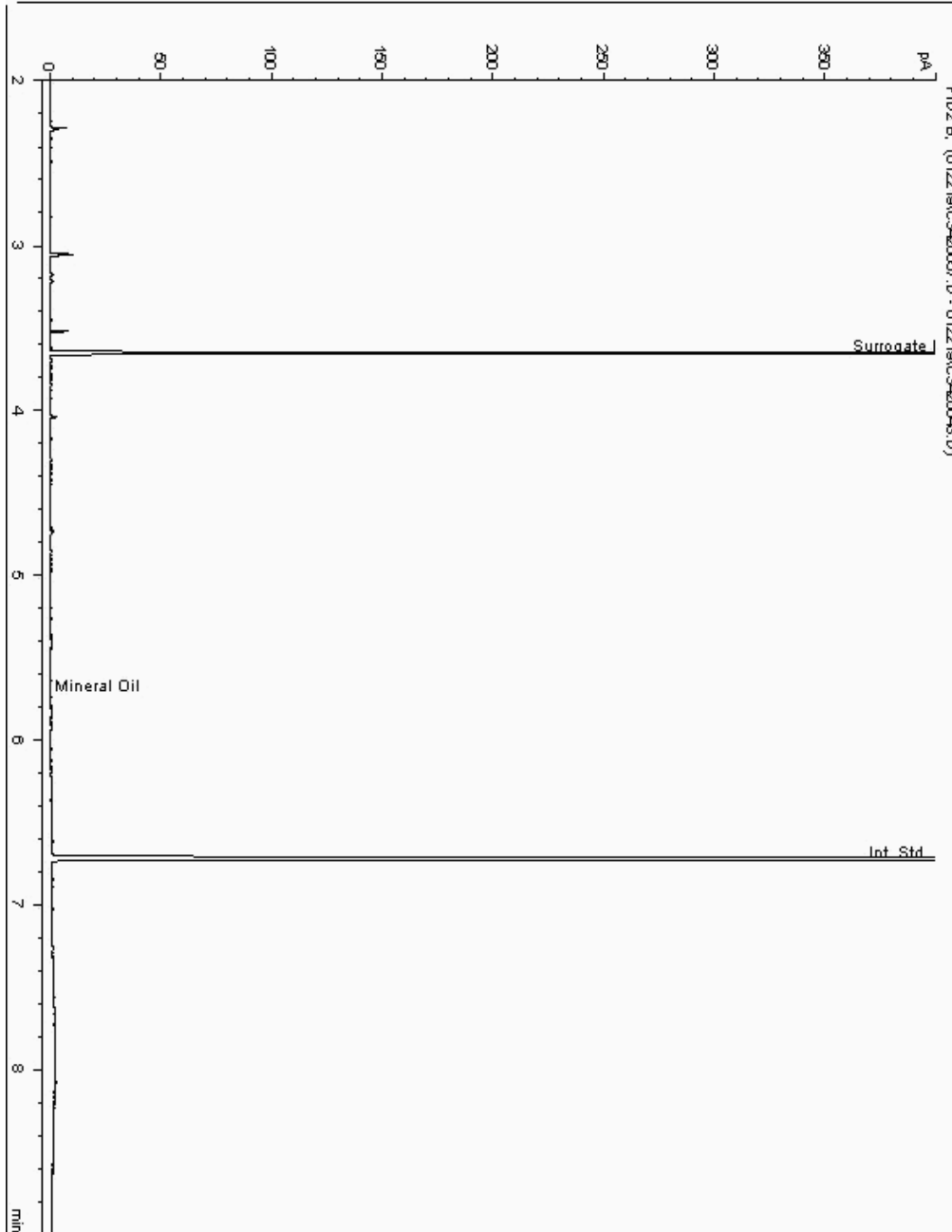
Analysis: Mineral Oil

Sample No : 19143930
Sample ID : BH233

Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977559-
Date Acquired : 23/01/2019 00:36:08 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

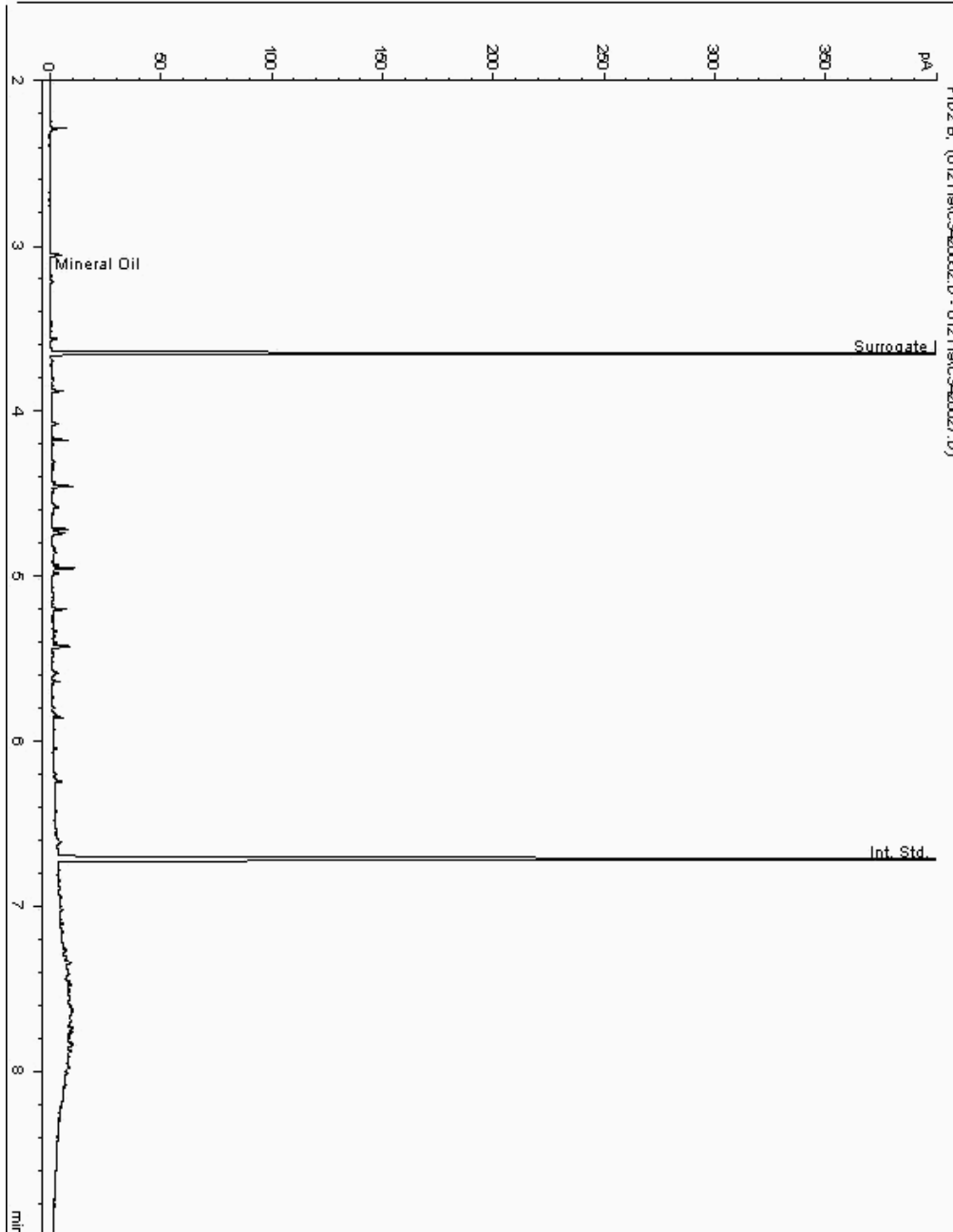
Analysis: Mineral Oil

Sample No : 19144000
Sample ID : BH234

Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977958-
Date Acquired : 21/01/2019 22:38:15 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

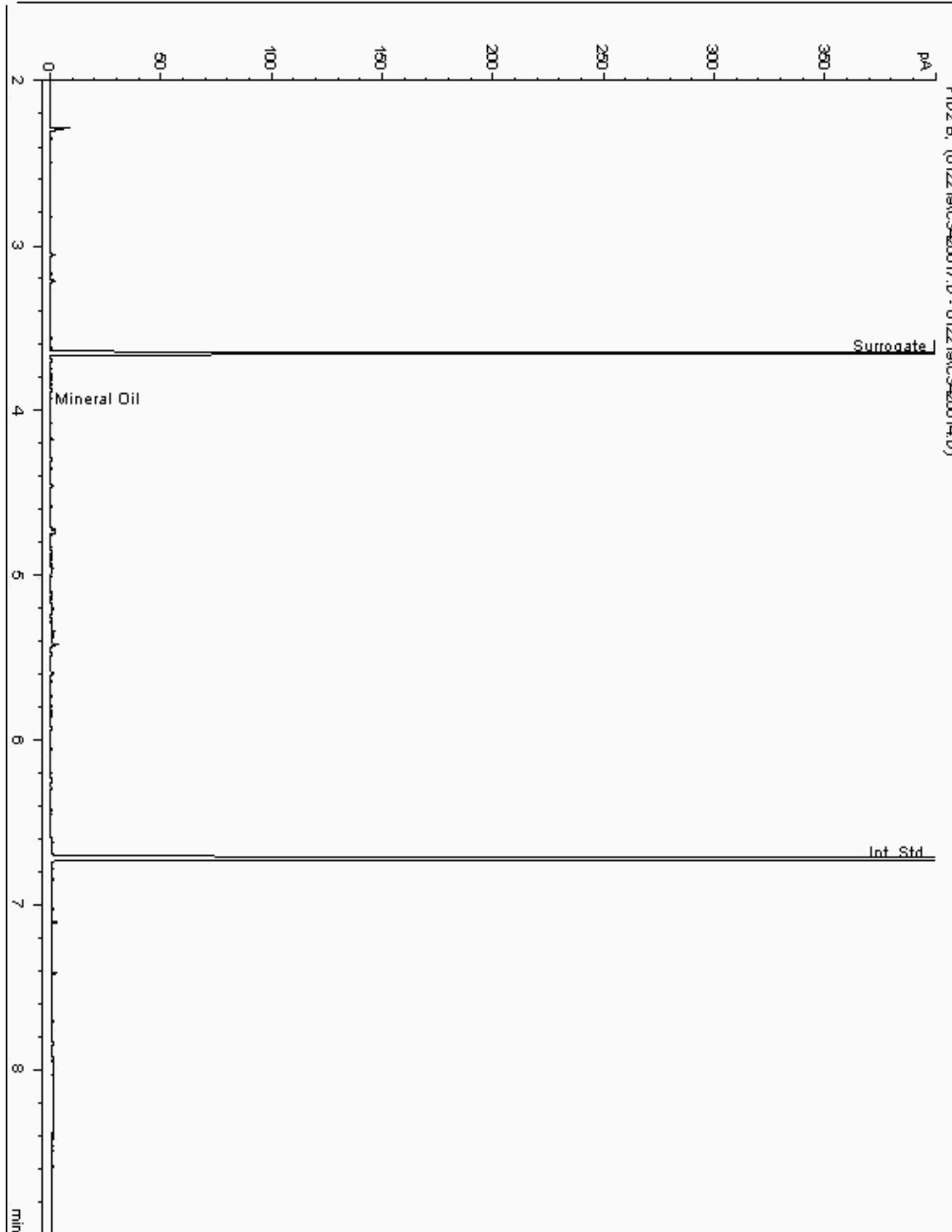
Analysis: Mineral Oil

Sample No : 19144033
Sample ID : BH234

Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977886-
Date Acquired : 22/01/2019 12:16:18 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

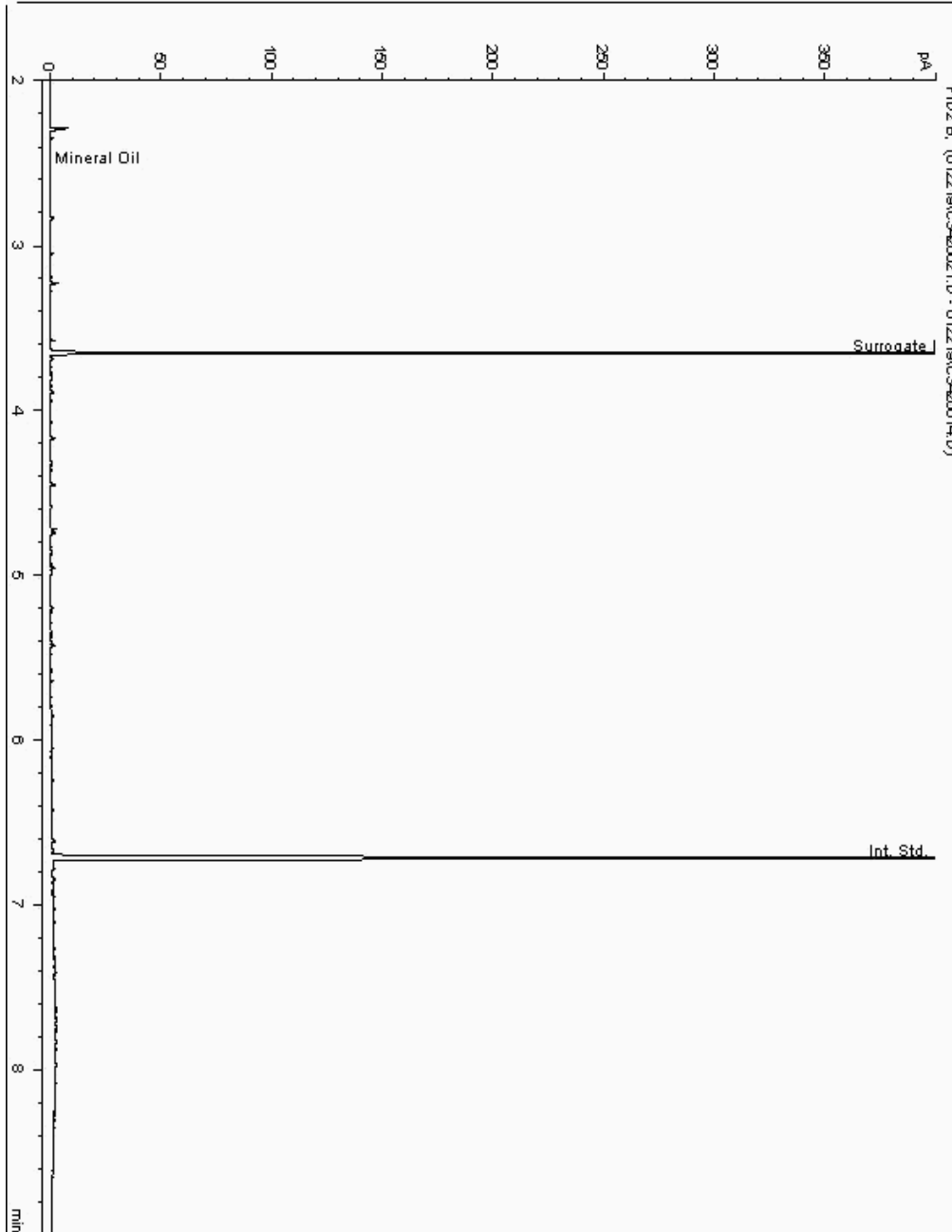
Analysis: Mineral Oil

Sample No : 19144104
Sample ID : BH233

Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977689-
Date Acquired : 22/01/2019 13:23:29 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

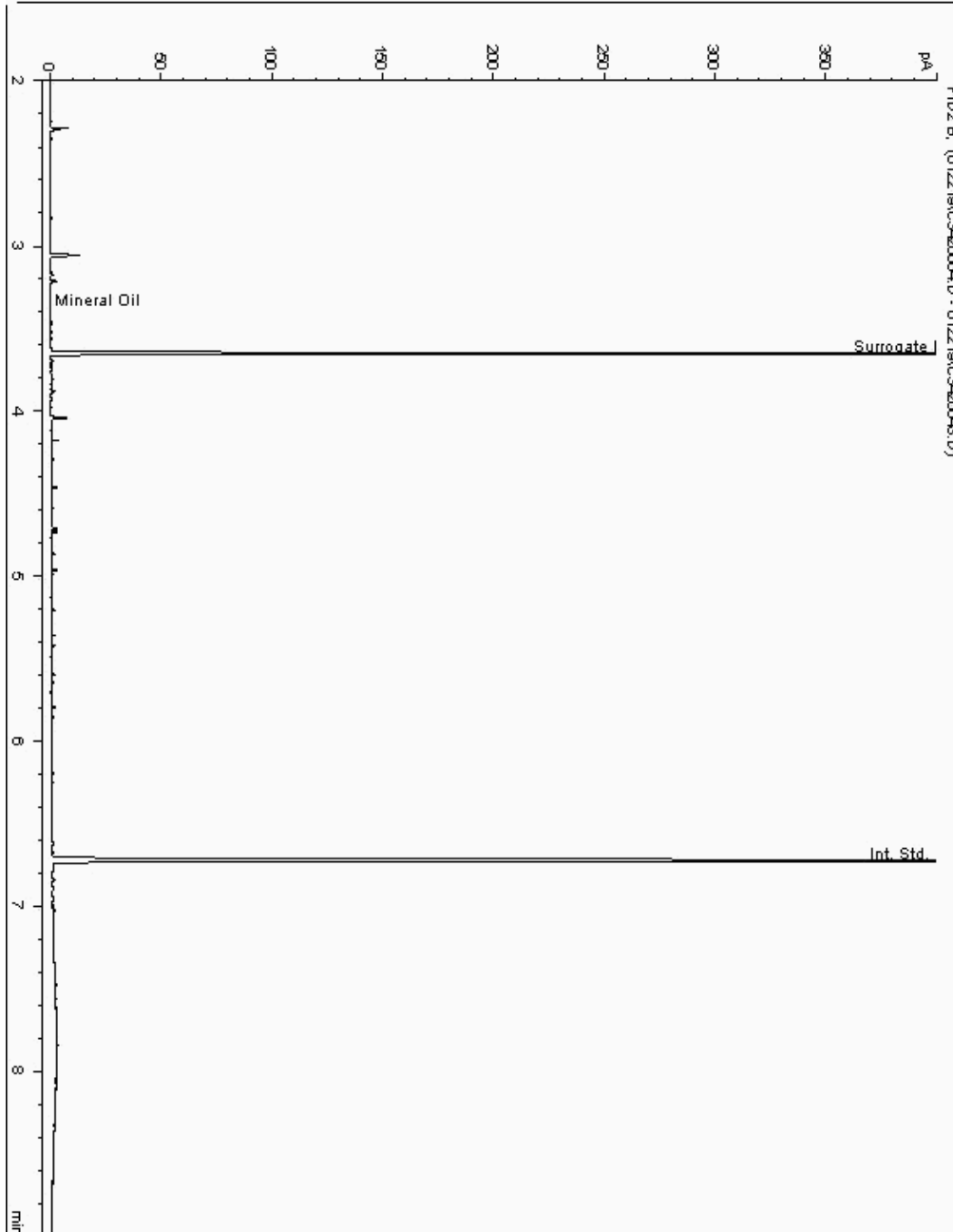
Analysis: Mineral Oil

Sample No : 19148843
Sample ID : BH234

Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17978023-
Date Acquired : 23/01/2019 02:53:52 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

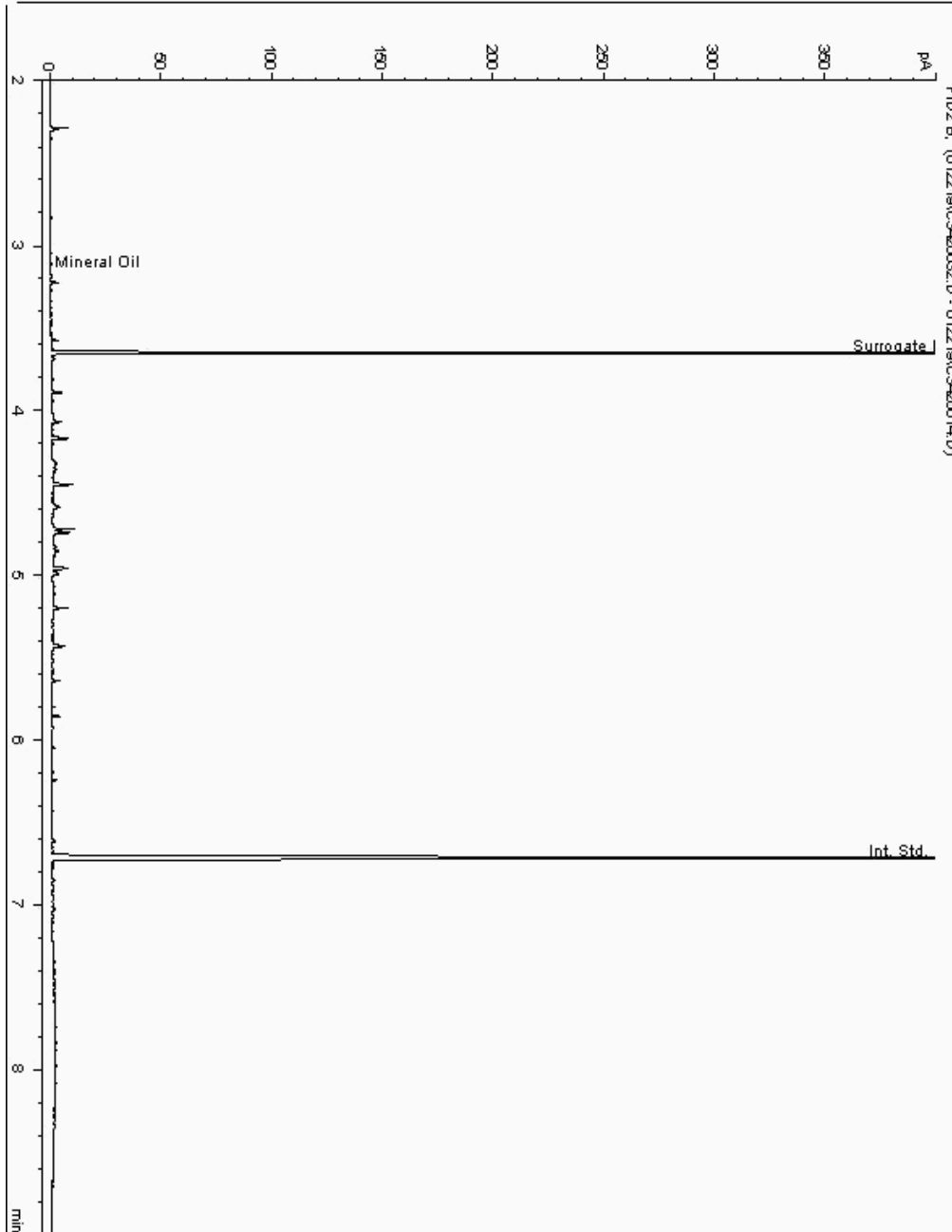
Analysis: Mineral Oil

Sample No : 19149069
Sample ID : BH234

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977763-
Date Acquired : 22/01/2019 17:03:45 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

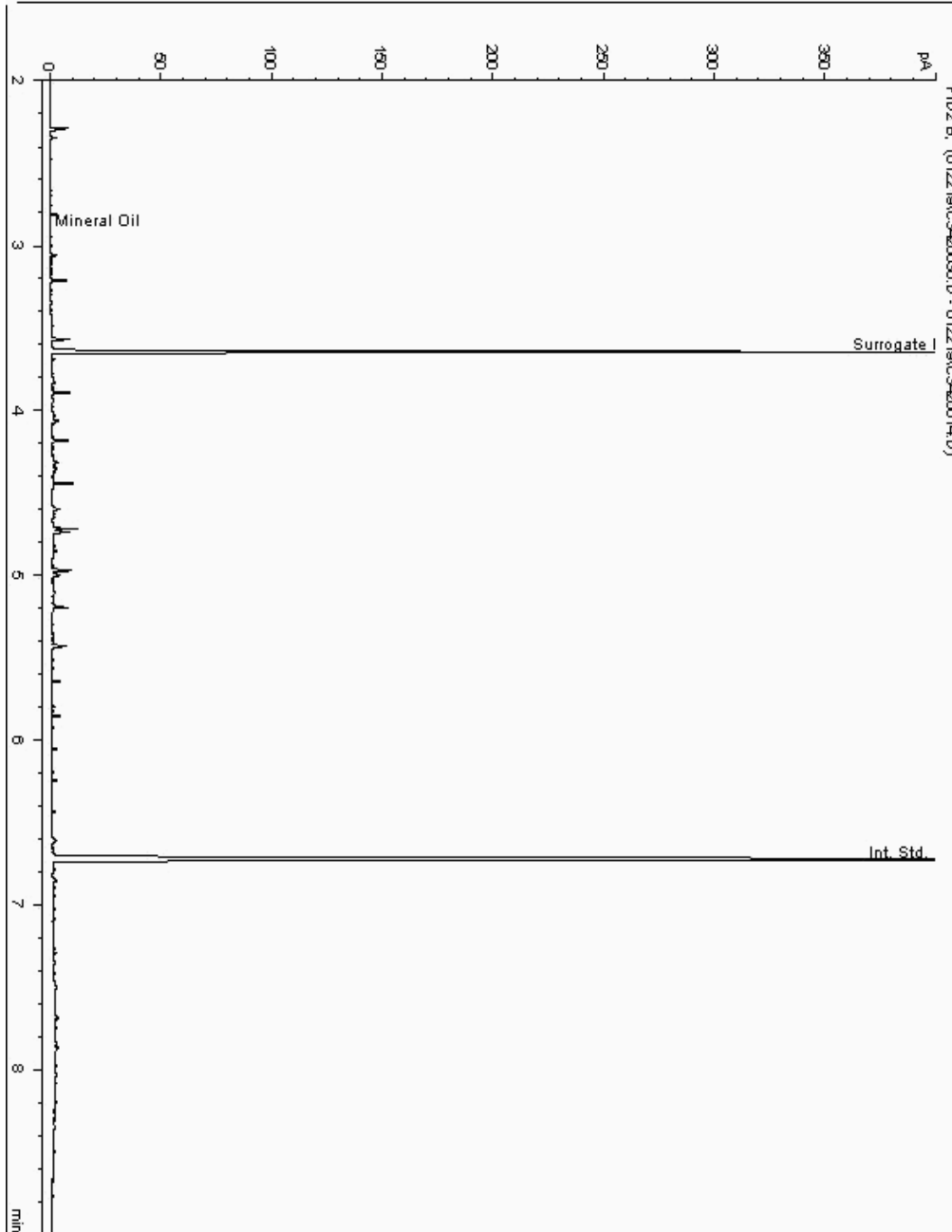
Analysis: Mineral Oil

Sample No : 19149249
Sample ID : BH234

Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17978239-
Date Acquired : 22/01/2019 16:21:30 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

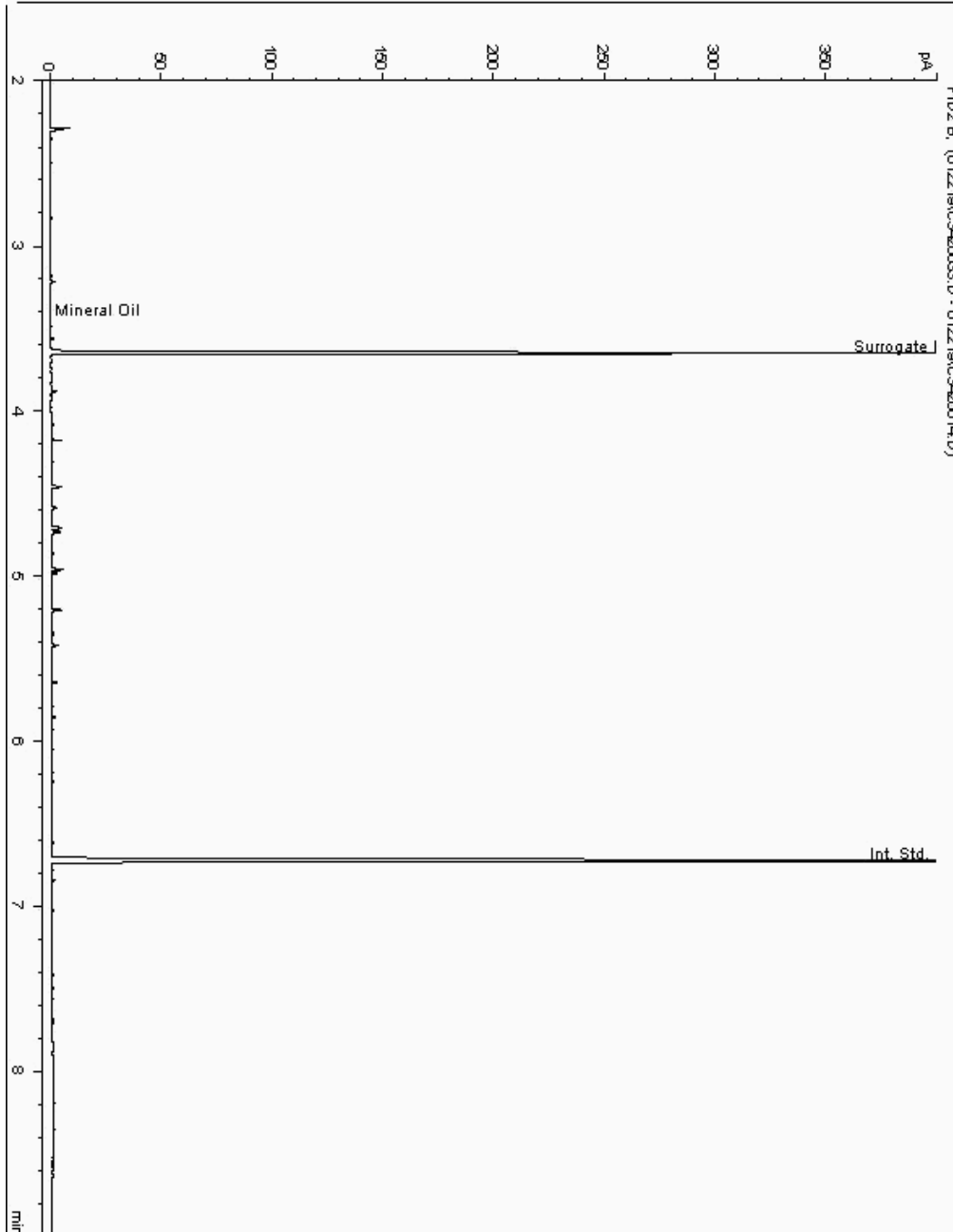
Analysis: Mineral Oil

Sample No : 19149307
Sample ID : BH234

Depth : 1.20 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977740-
Date Acquired : 22/01/2019 17:24:34 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

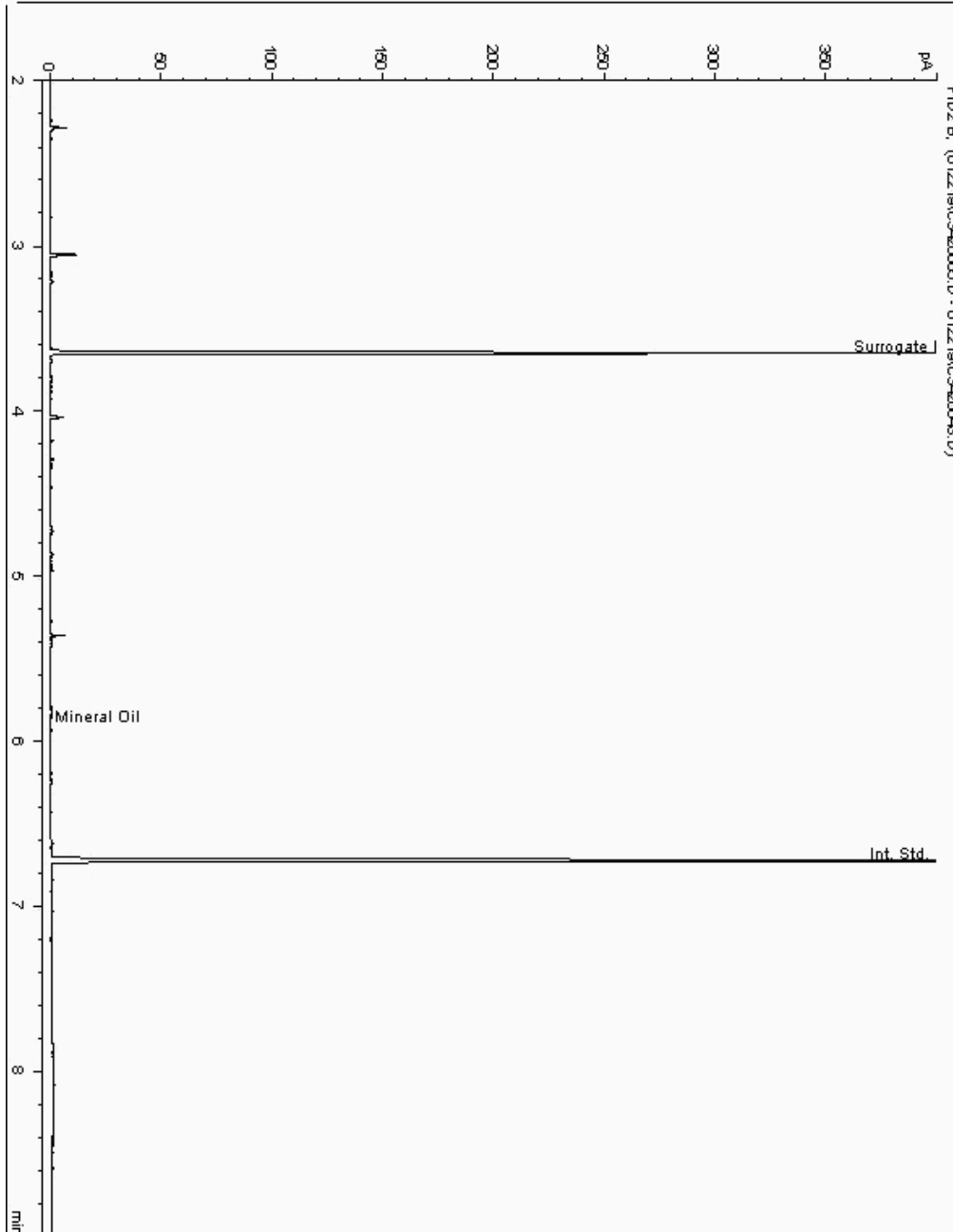
Analysis: Mineral Oil

Sample No : 19153783
Sample ID : BH233

Depth : 9.50 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977582-
Date Acquired : 23/01/2019 03:14:51 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

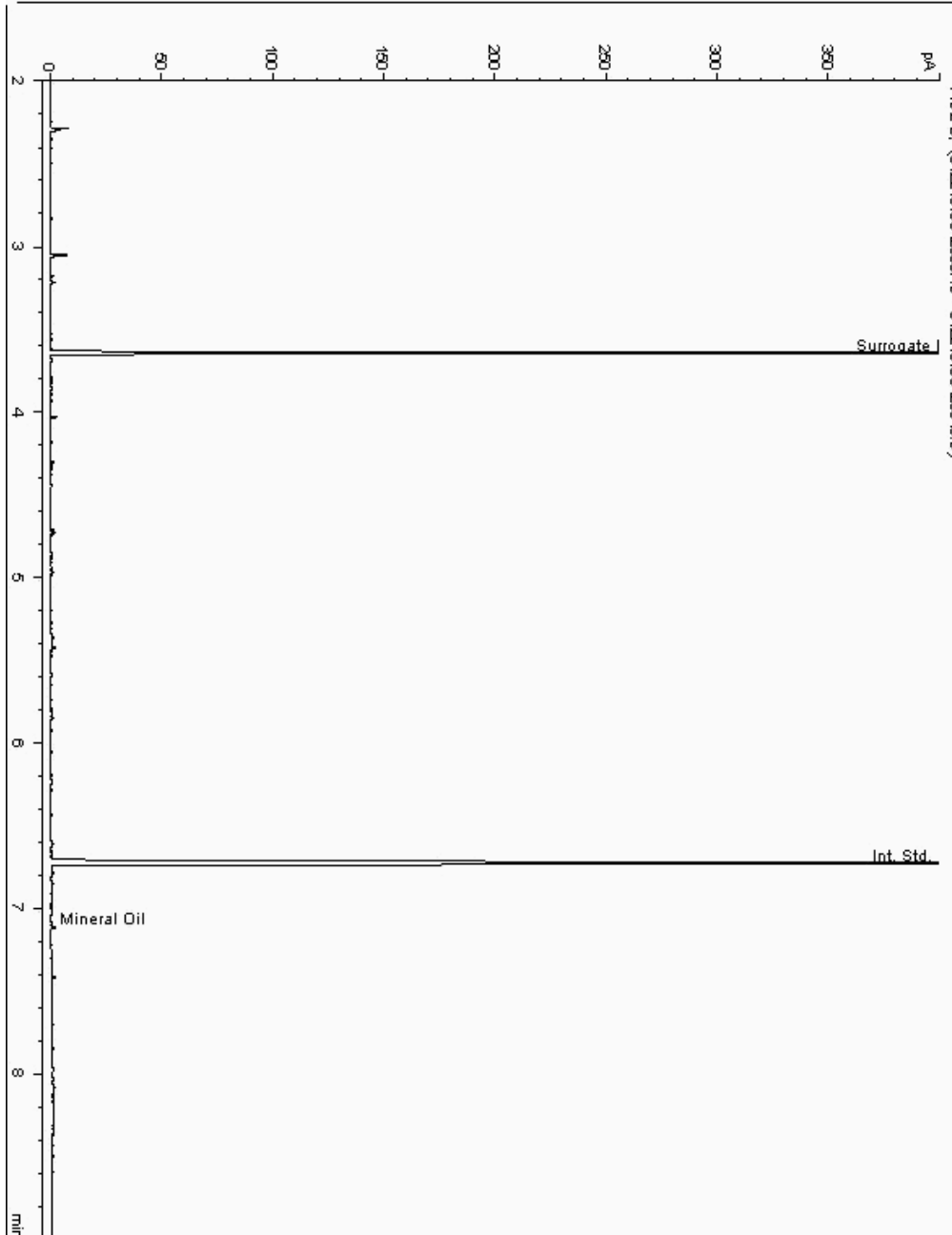
Analysis: Mineral Oil

Sample No : 19153835
Sample ID : BH233

Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977438-
Date Acquired : 23/01/2019 03:56:29 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

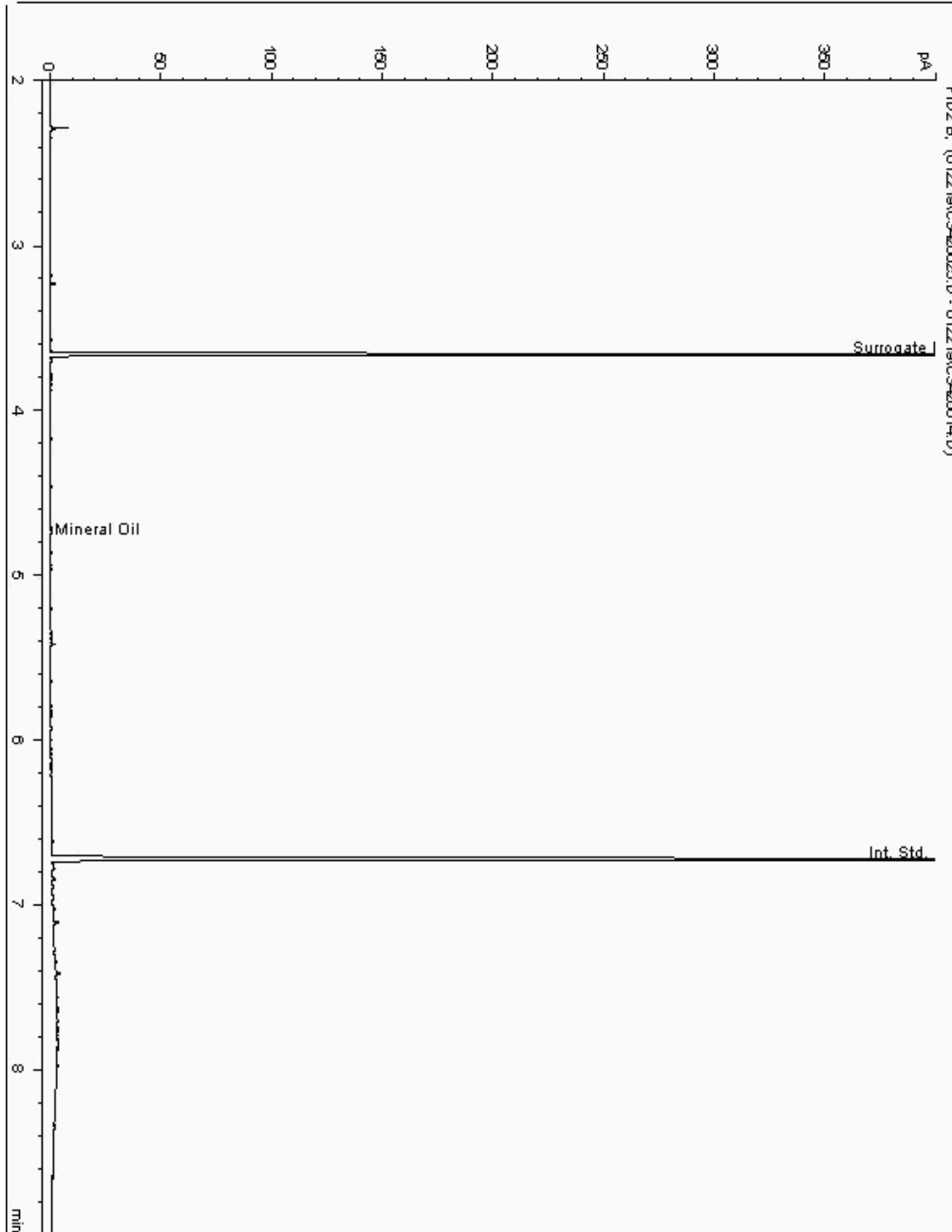
Analysis: Mineral Oil

Sample No : 19153890
Sample ID : BH233

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977466-
Date Acquired : 22/01/2019 14:47:39 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

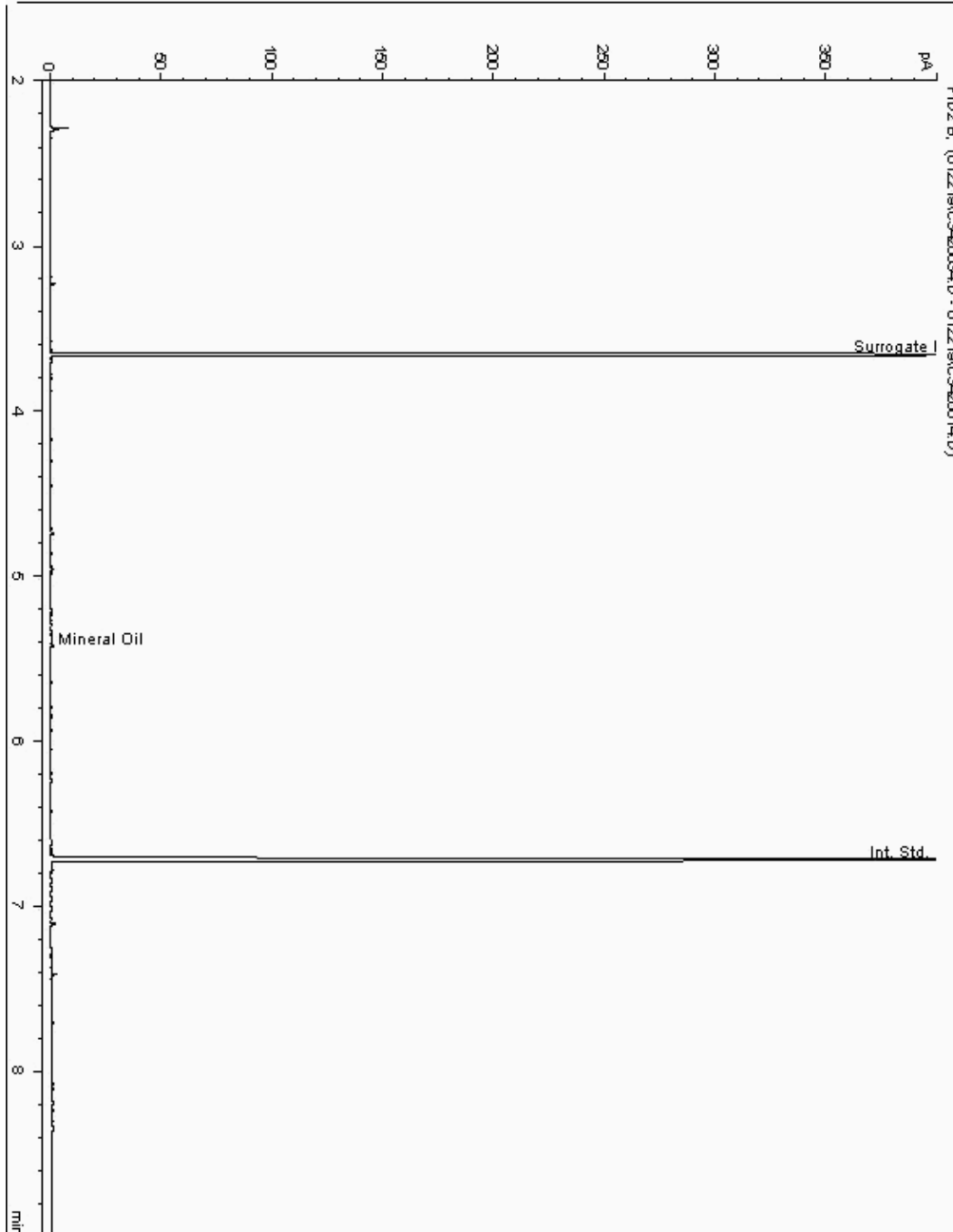
Analysis: Mineral Oil

Sample No : 19153932
Sample ID : BH233

Depth : 0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977412-
Date Acquired : 22/01/2019 17:45:30 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

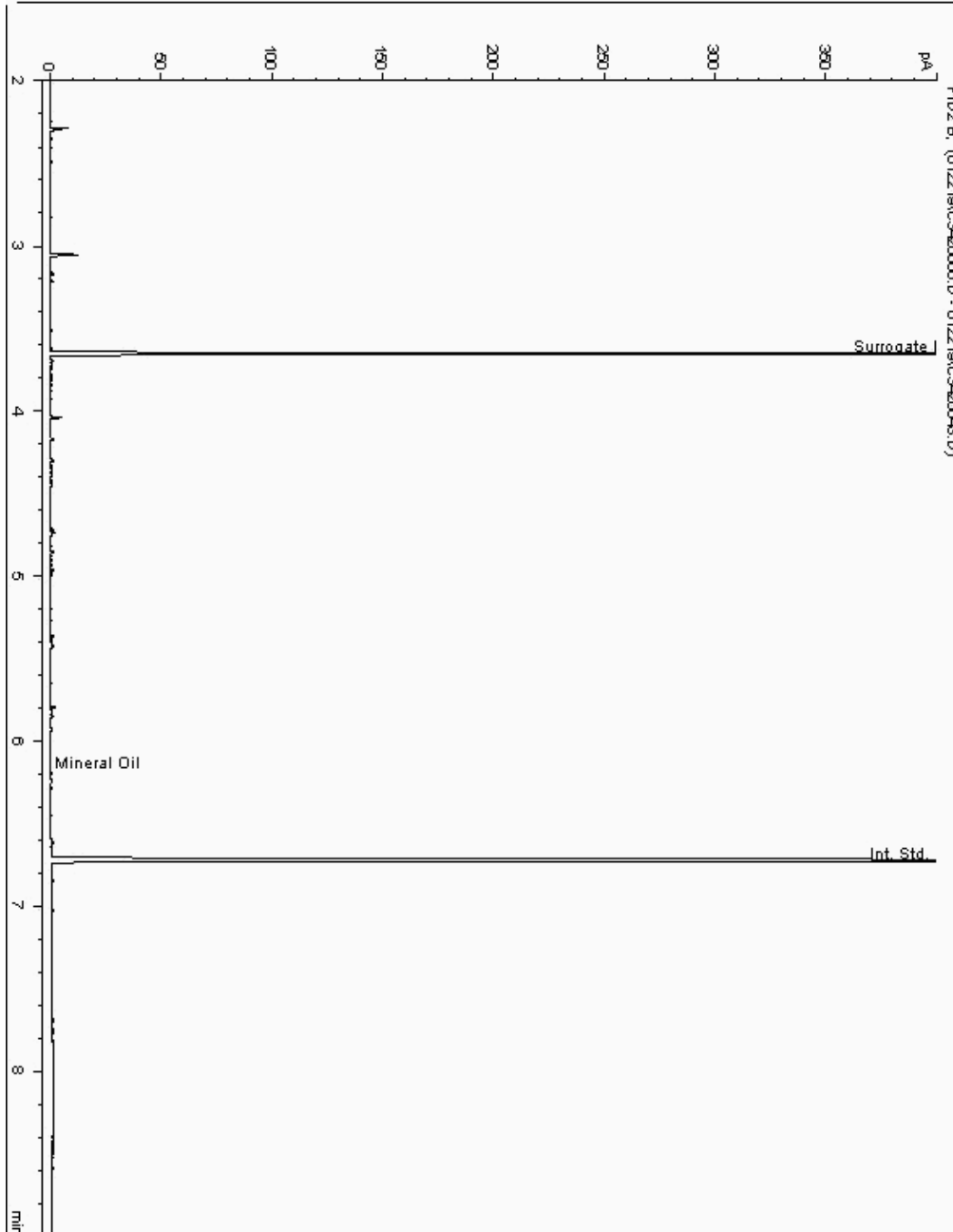
Analysis: Mineral Oil

Sample No : 19153966
Sample ID : BH233

Depth : 11.00 - 12.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977606-
Date Acquired : 23/01/2019 03:35:39 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

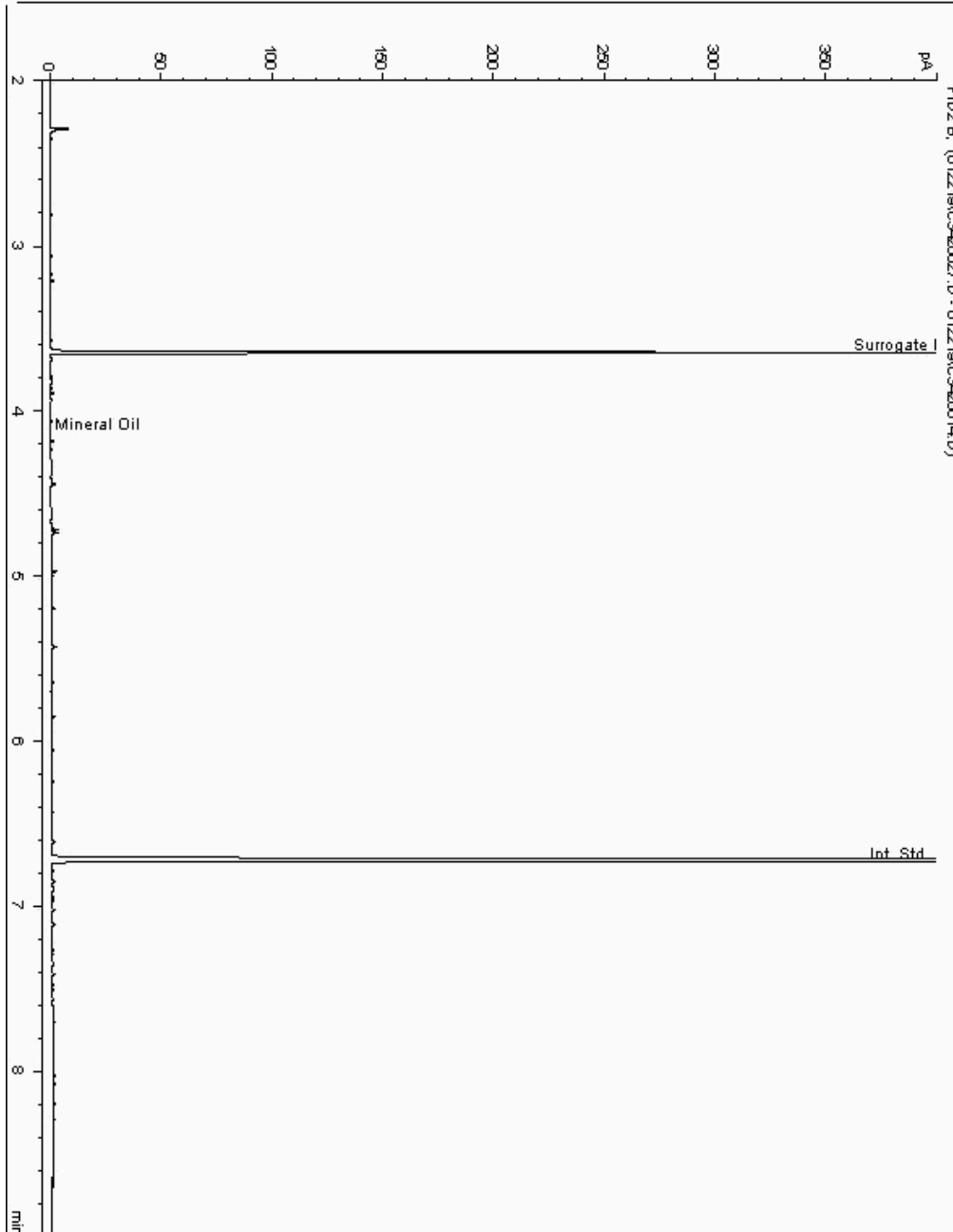
Analysis: Mineral Oil

Sample No : 19154047
Sample ID : BH233

Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977376-
Date Acquired : 22/01/2019 15:24:08 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102 Client Reference: 602387 Report Number: 491397
Location: City Block 9 Order Number: P2021550 Superseded Report: 490811

Chromatogram

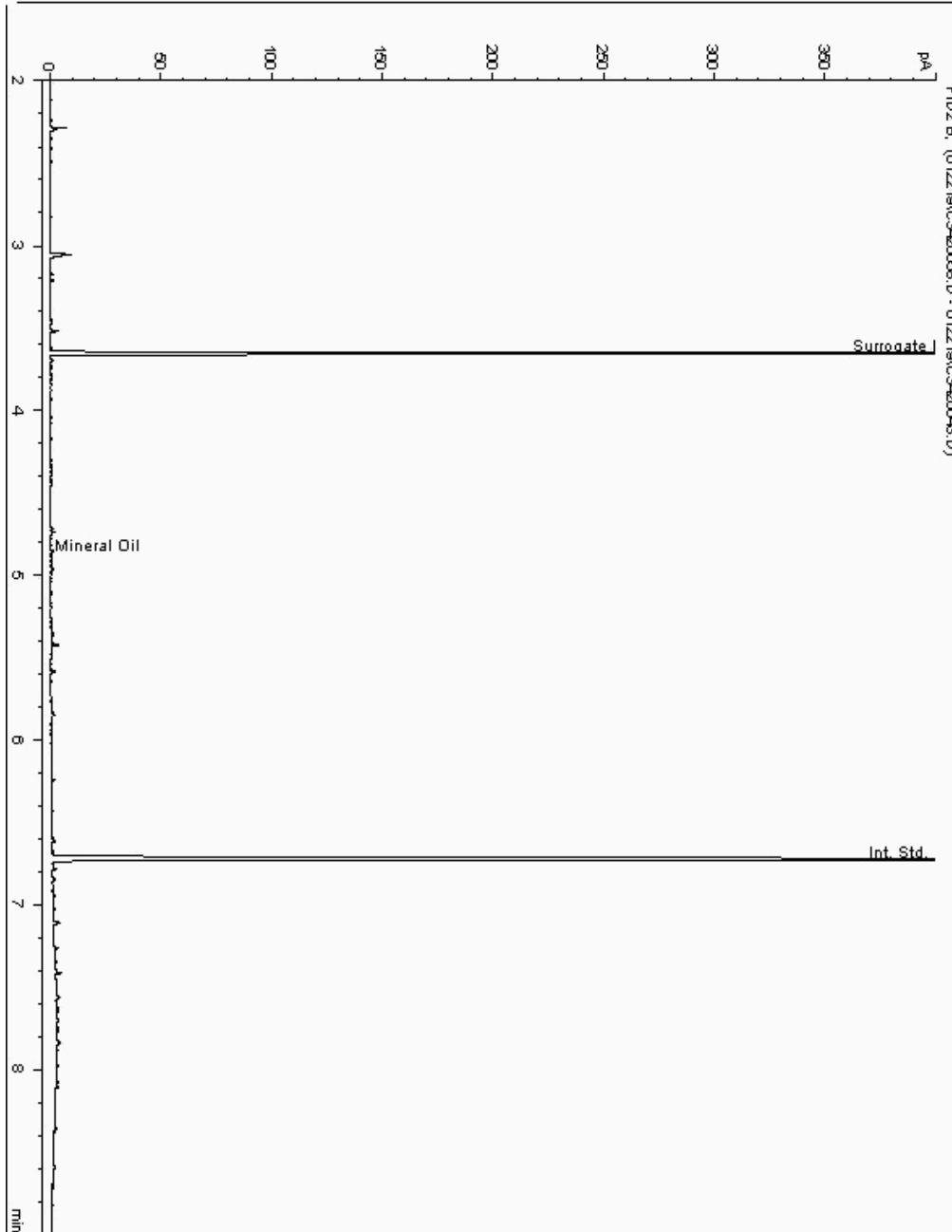
Analysis: Mineral Oil

Sample No : 19154091
Sample ID : BH233

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977508-
Date Acquired : 23/01/2019 00:56:56 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

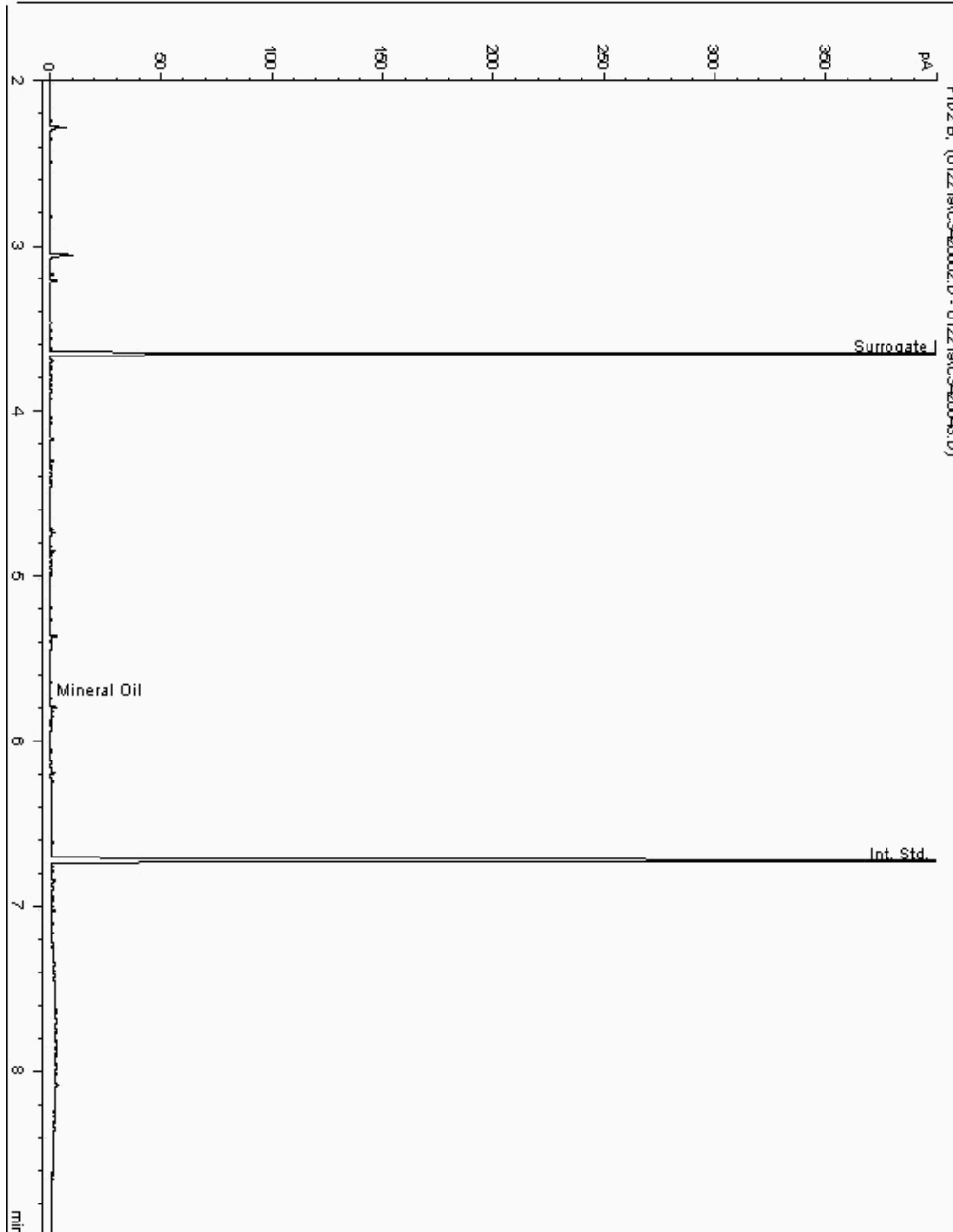
Analysis: Mineral Oil

Sample No : 19154149
Sample ID : BH232

Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977331-
Date Acquired : 23/01/2019 02:12:27 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

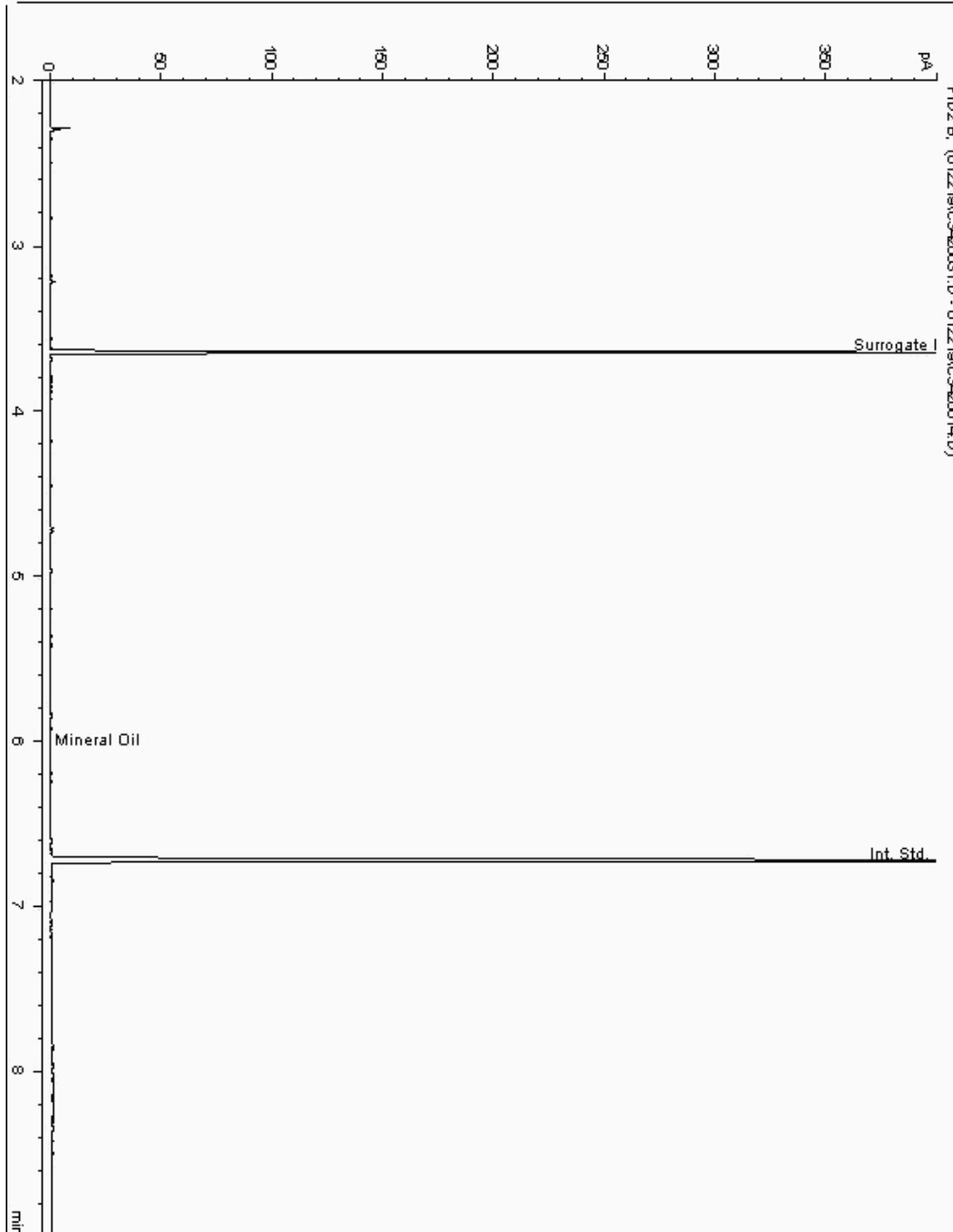
Analysis: Mineral Oil

Sample No : 19154189
Sample ID : BH233

Depth : 12.50 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977629-
Date Acquired : 22/01/2019 16:42:48 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

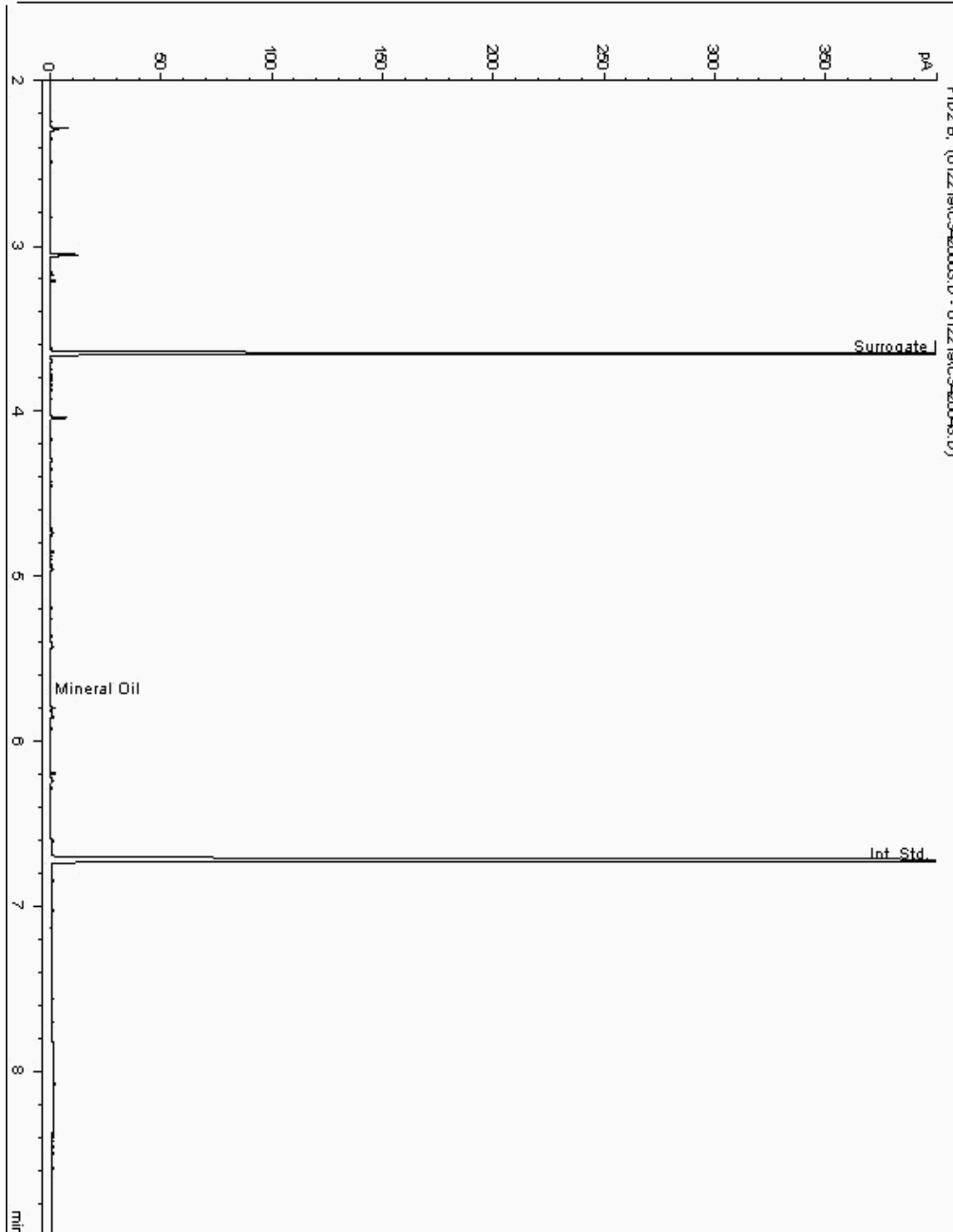
Analysis: Mineral Oil

Sample No : 19154233
Sample ID : BH232

Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17977226-
Date Acquired : 23/01/2019 02:33:10 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 491397
Superseded Report: 490811

Chromatogram

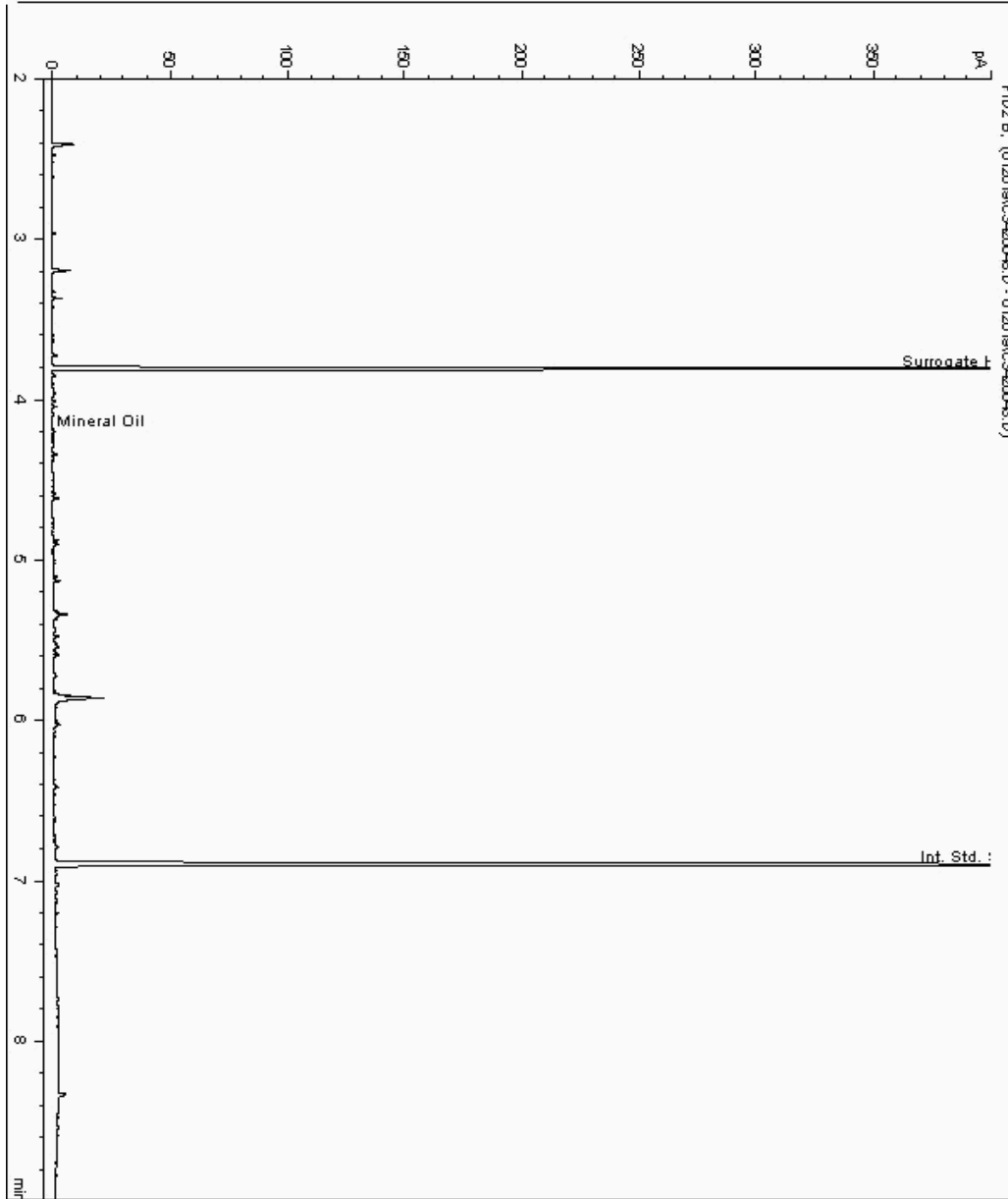
Analysis: Mineral Oil

Sample No : 19196129
Sample ID : BH232

Depth : 12.50 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 18036370-
Date Acquired : 26/01/19 22:01:20 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

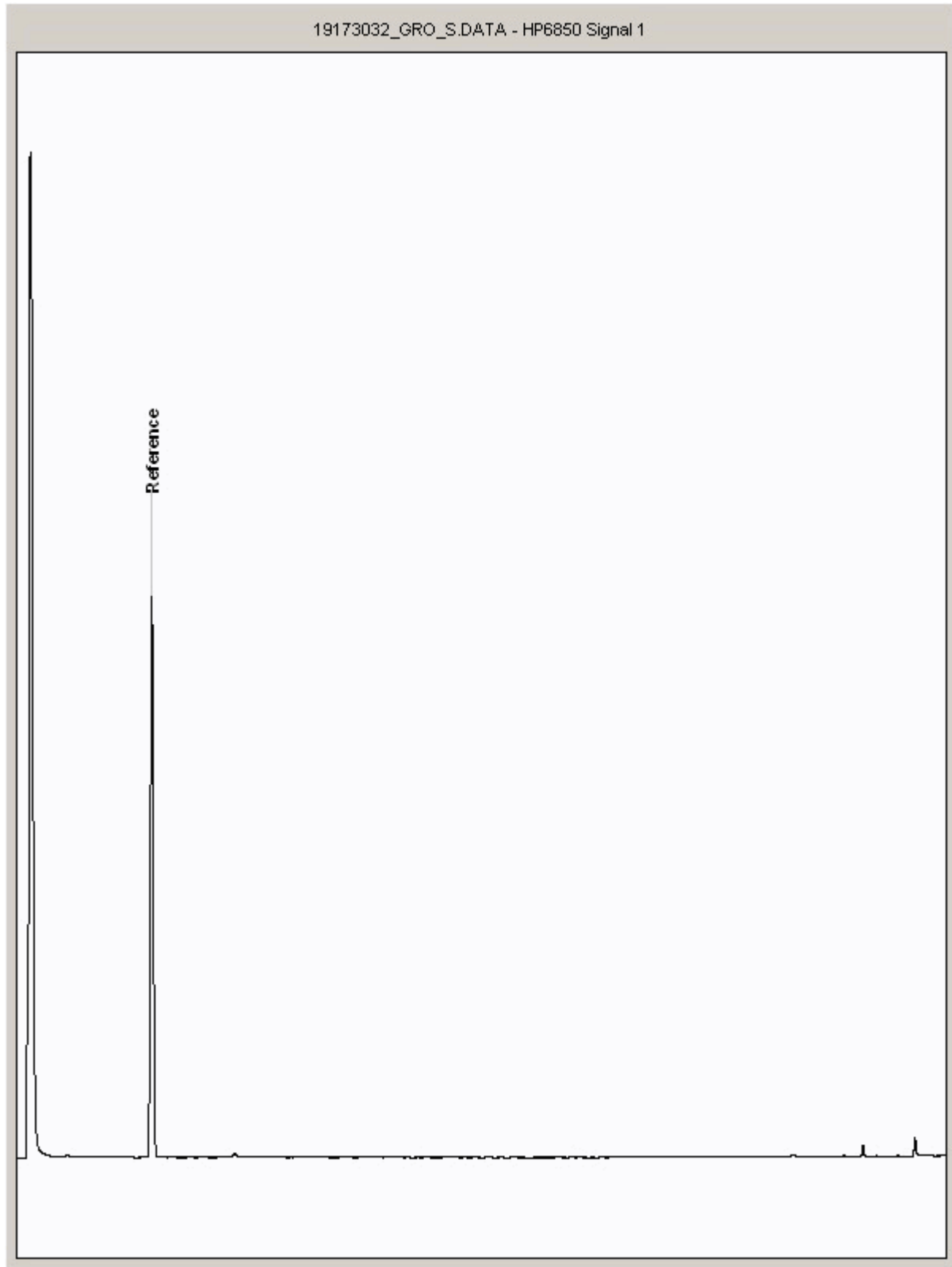
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19173032
Sample ID : BH233

Depth : 1.00 - 2.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

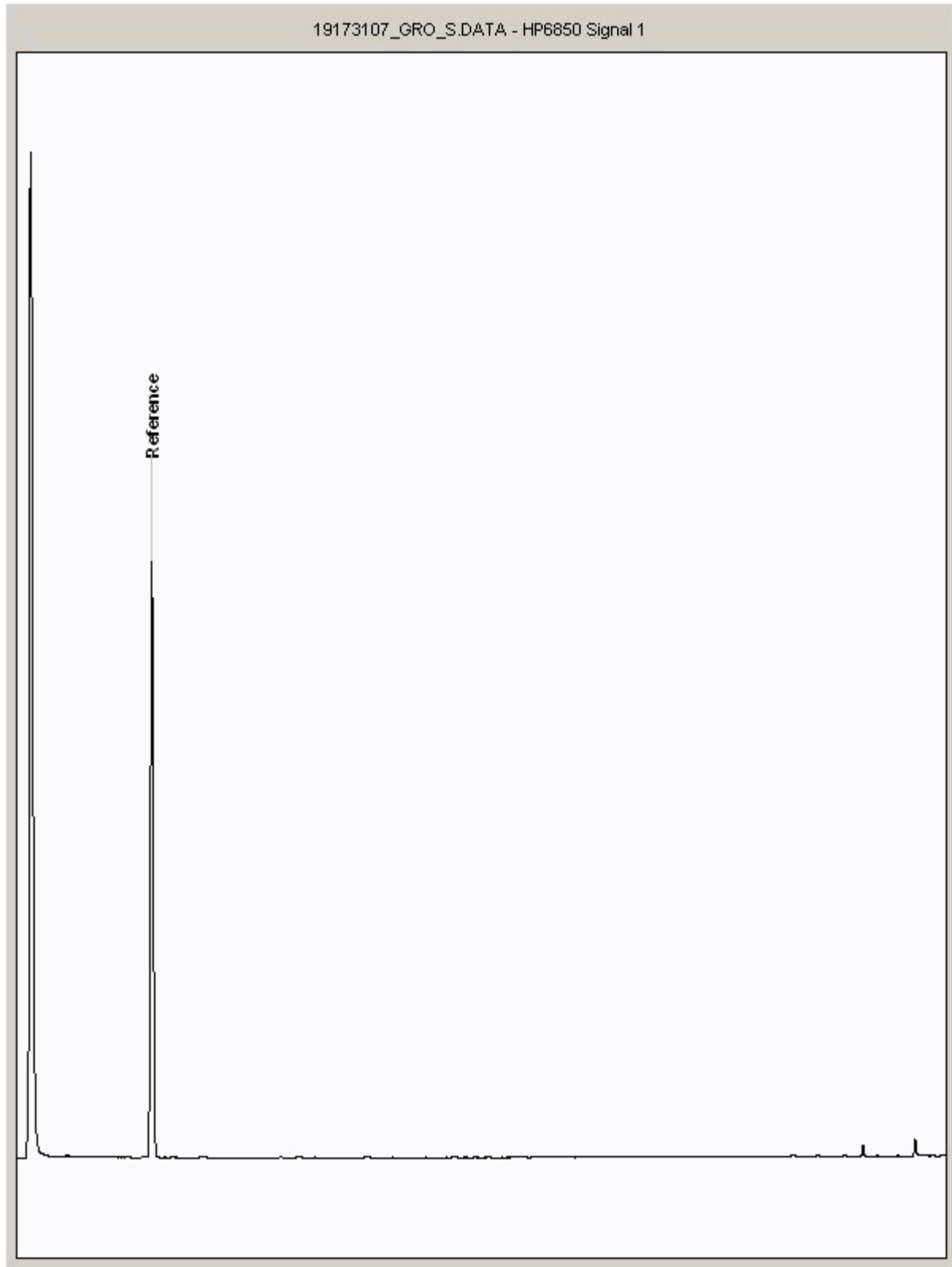
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19173107
Sample ID : BH233

Depth : 8.00 - 9.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

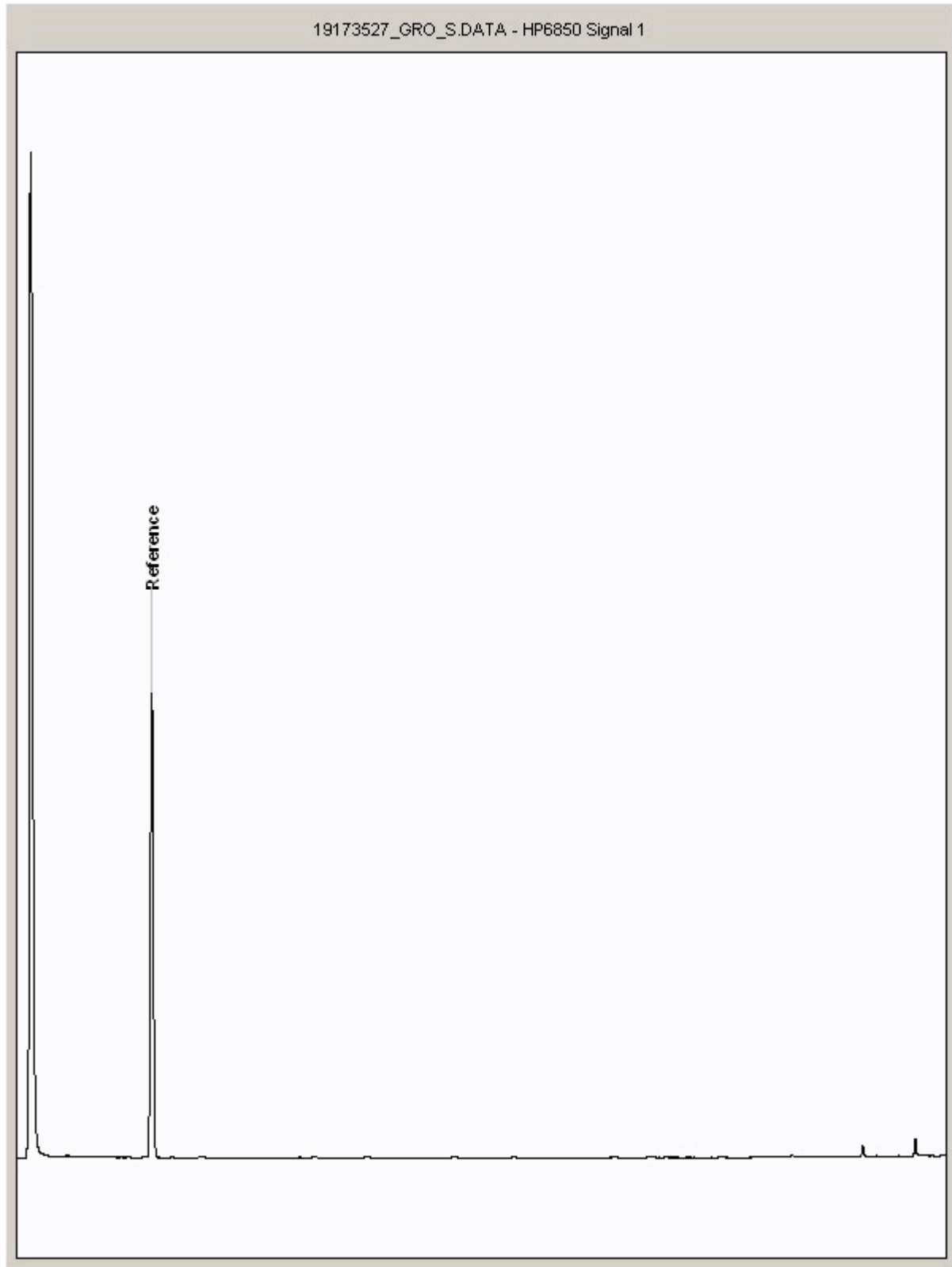
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19173527
Sample ID : BH233

Depth : 11.00 - 12.50





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

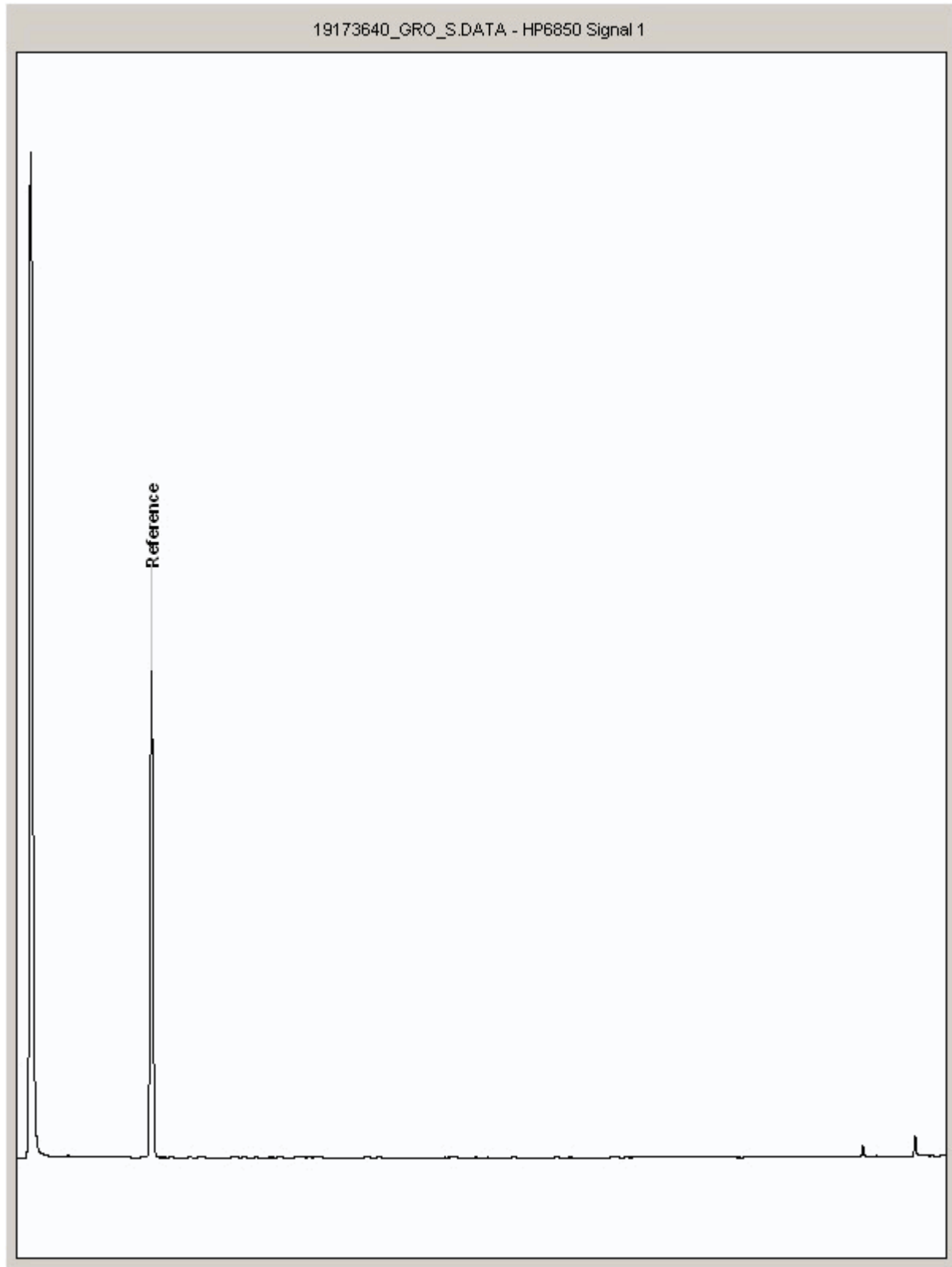
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19173640
Sample ID : BH233

Depth : 0.50 - 1.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

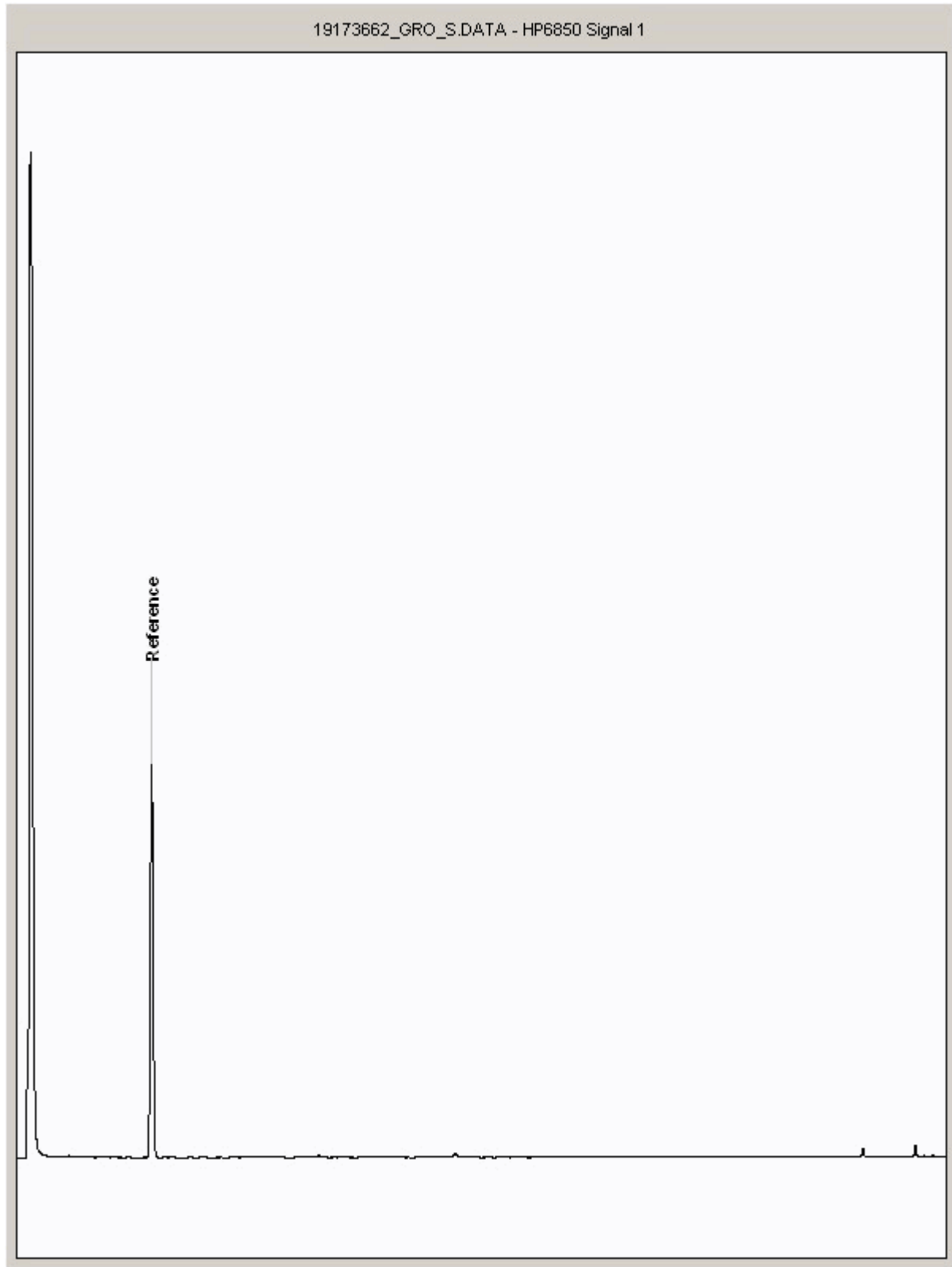
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19173662
Sample ID : BH233

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

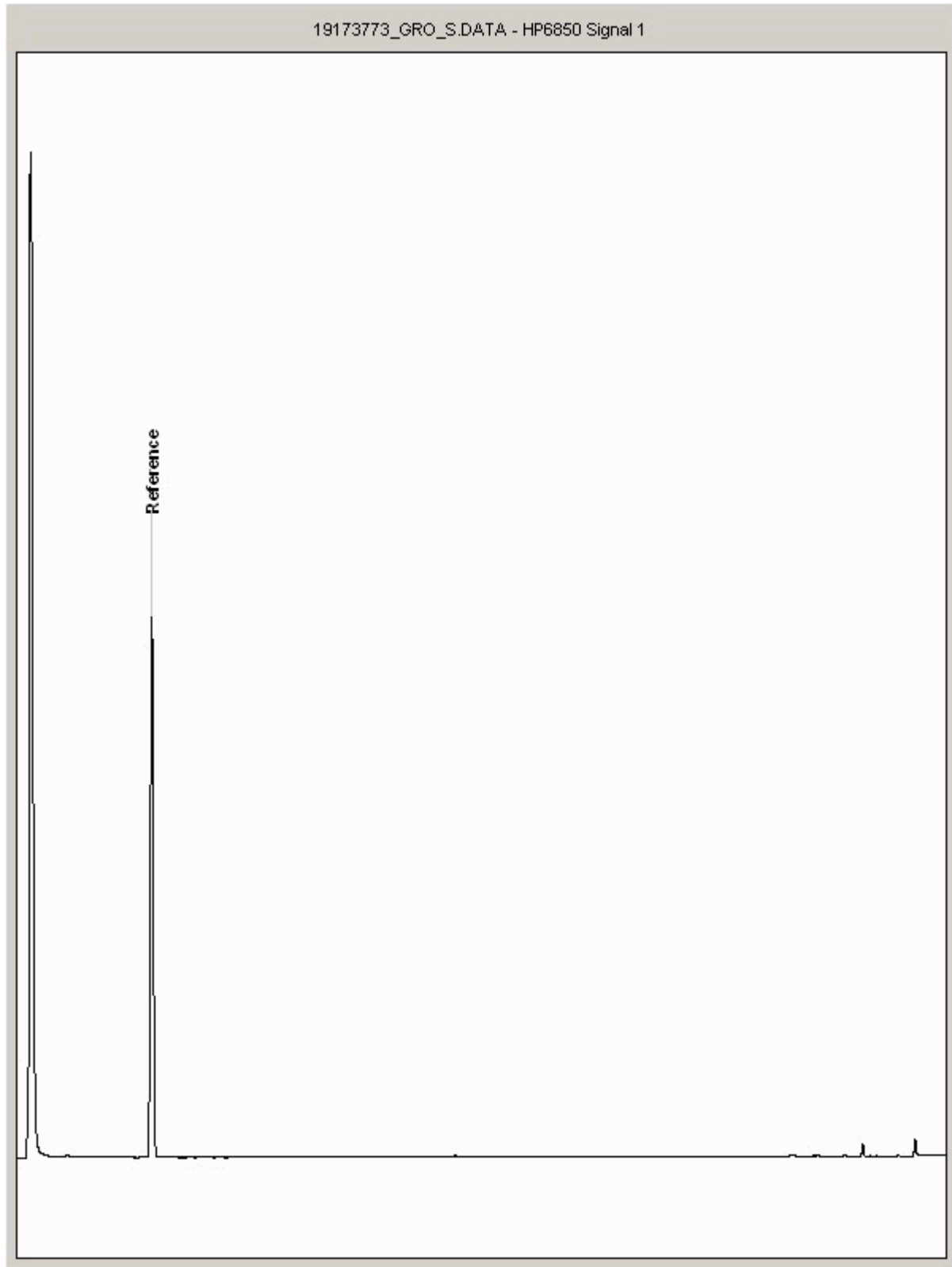
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19173773
Sample ID : BH233

Depth : 5.00 - 6.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

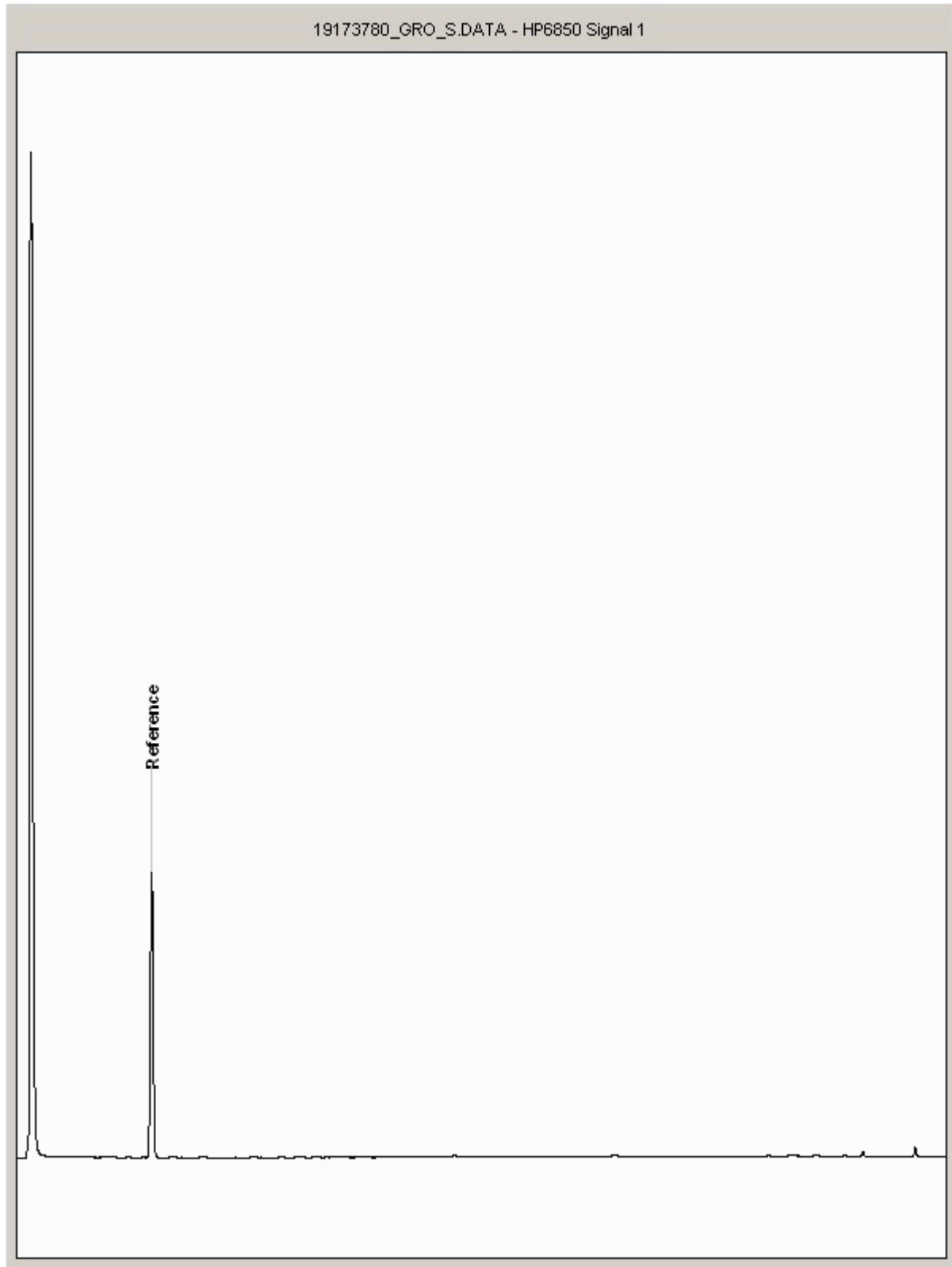
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19173780
Sample ID : BH234

Depth : 8.00 - 10.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

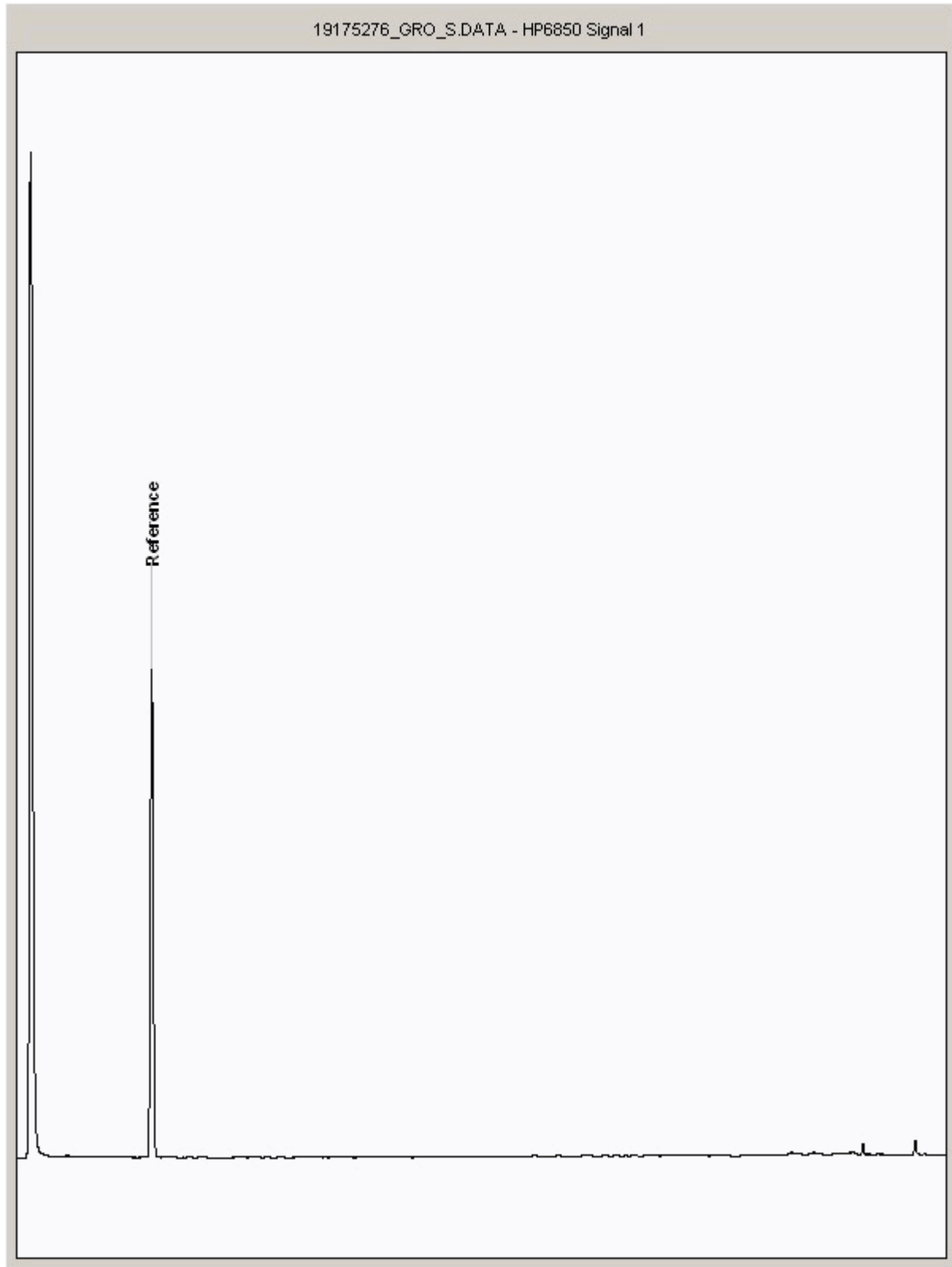
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19175276
Sample ID : BH234

Depth : 1.20 - 2.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

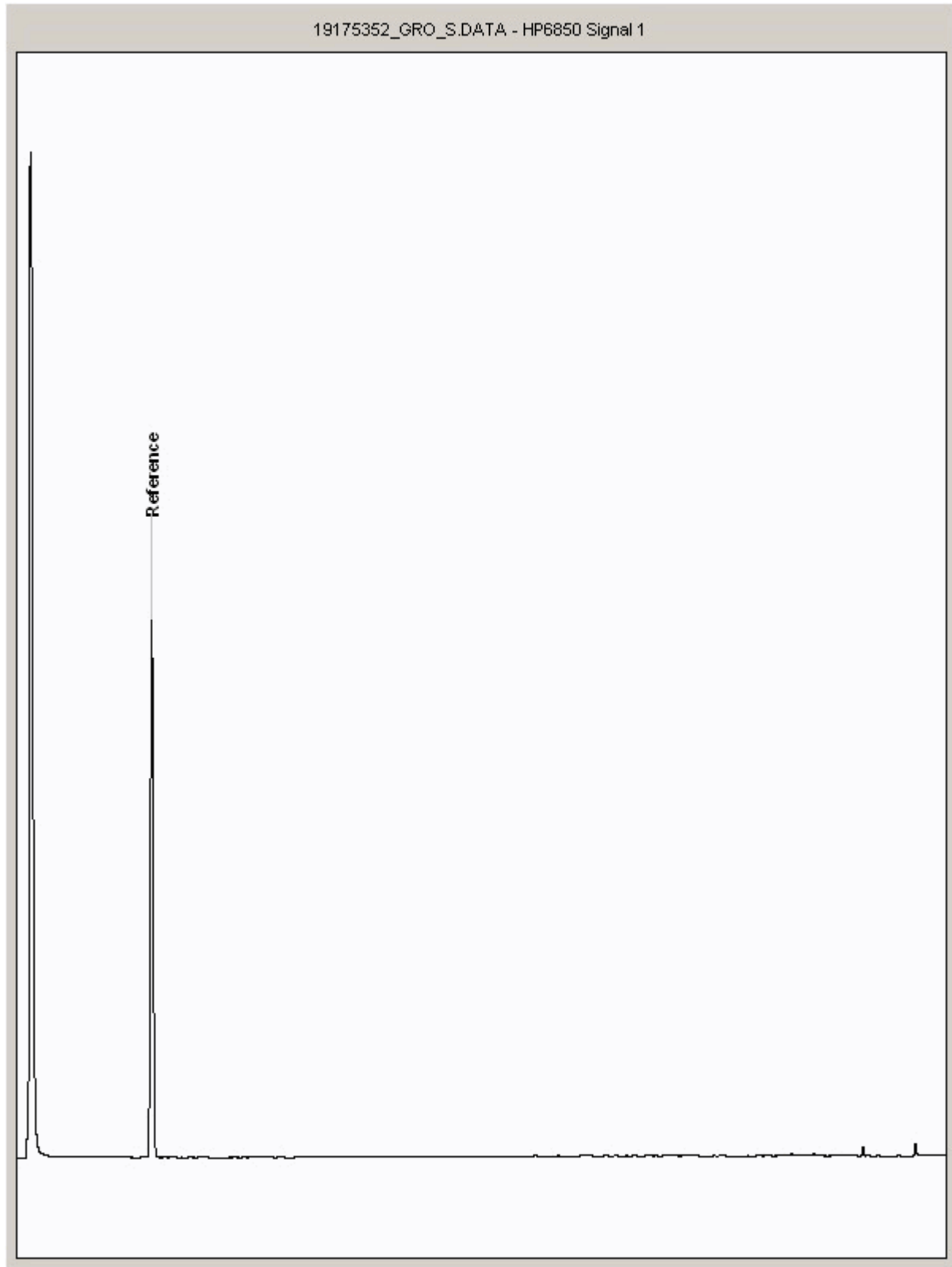
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19175352
Sample ID : BH234

Depth : 7.00 - 8.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

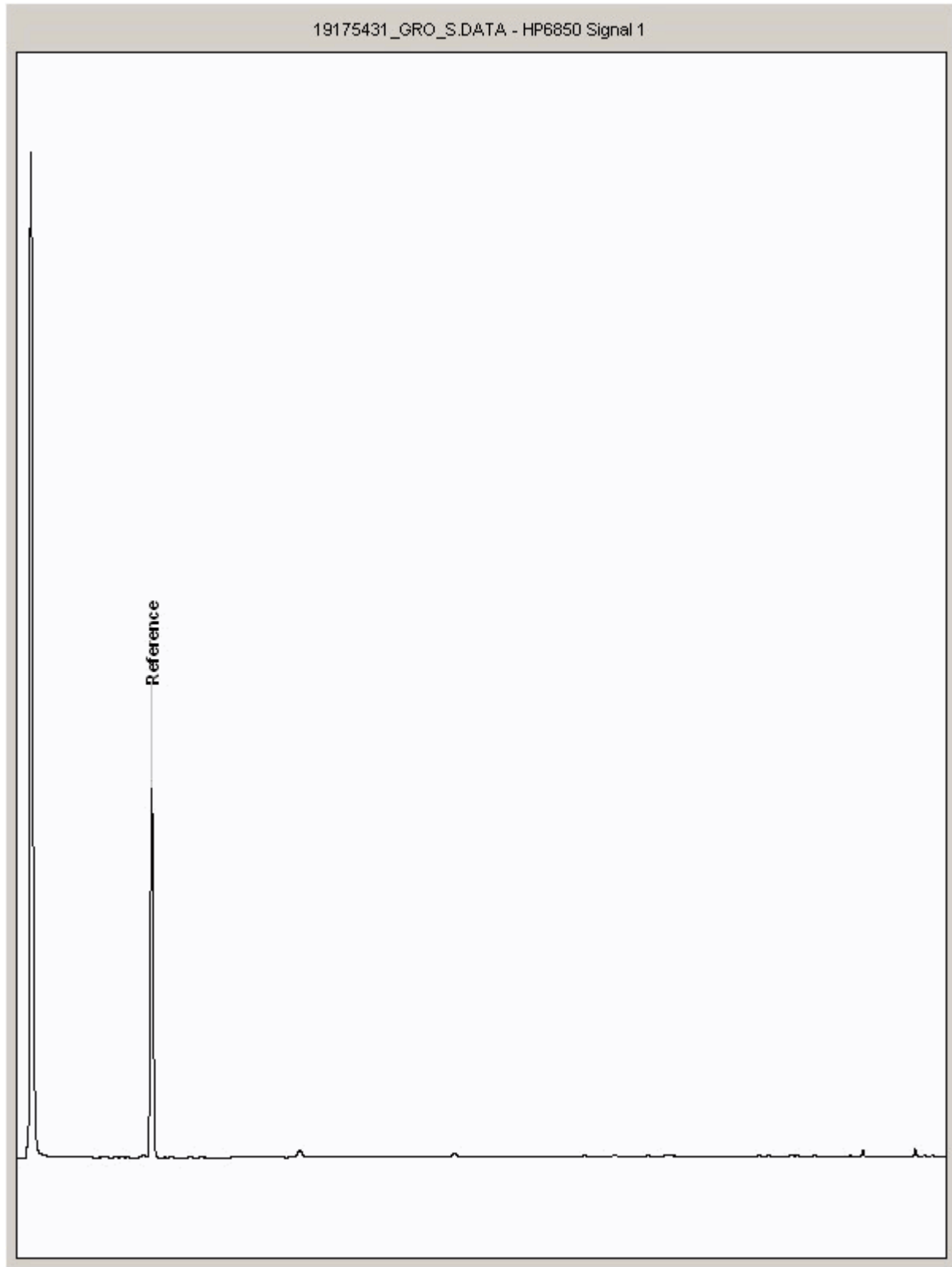
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19175431
Sample ID : BH234

Depth : 4.00 - 5.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

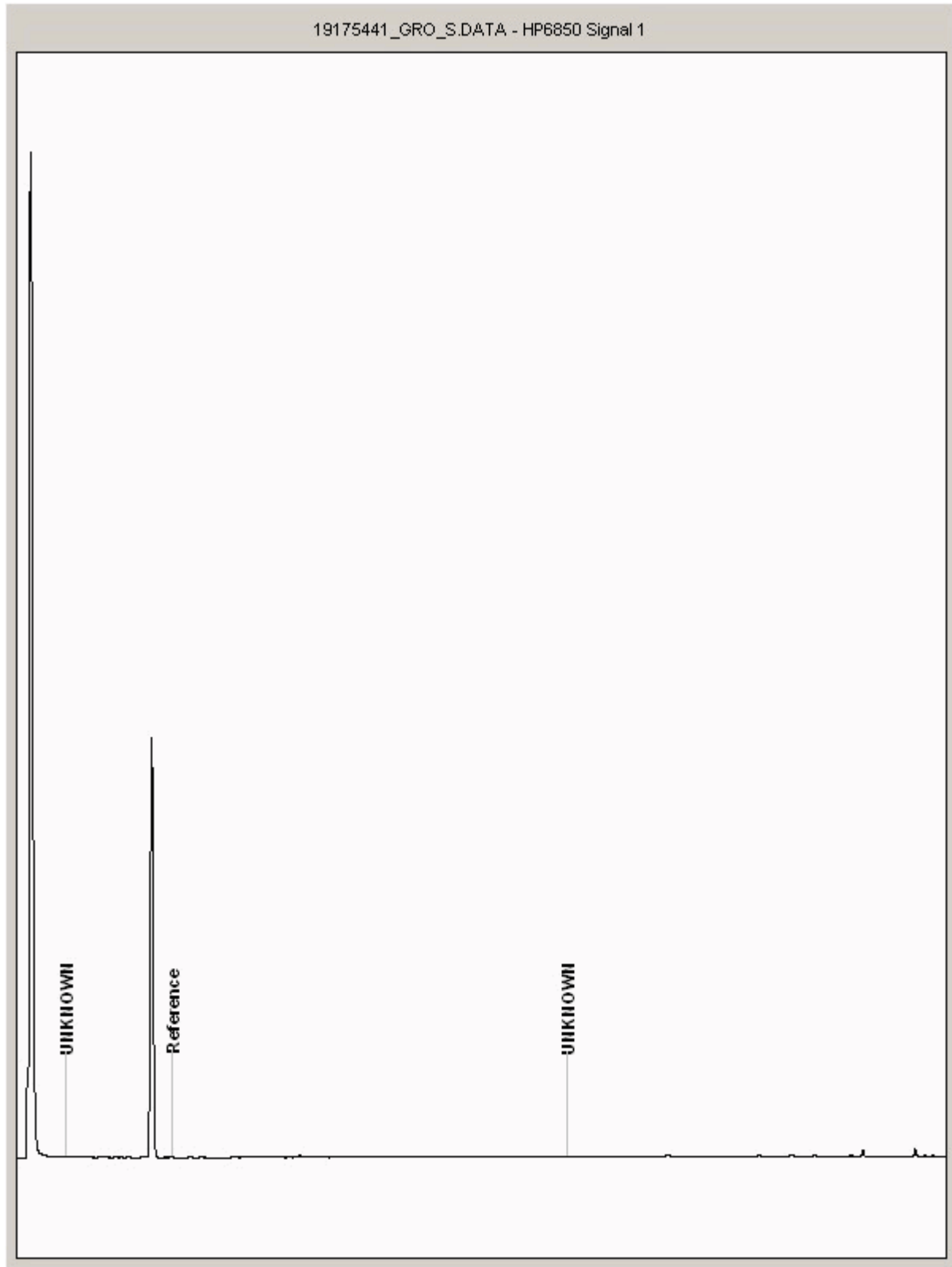
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19175441
Sample ID : BH234

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

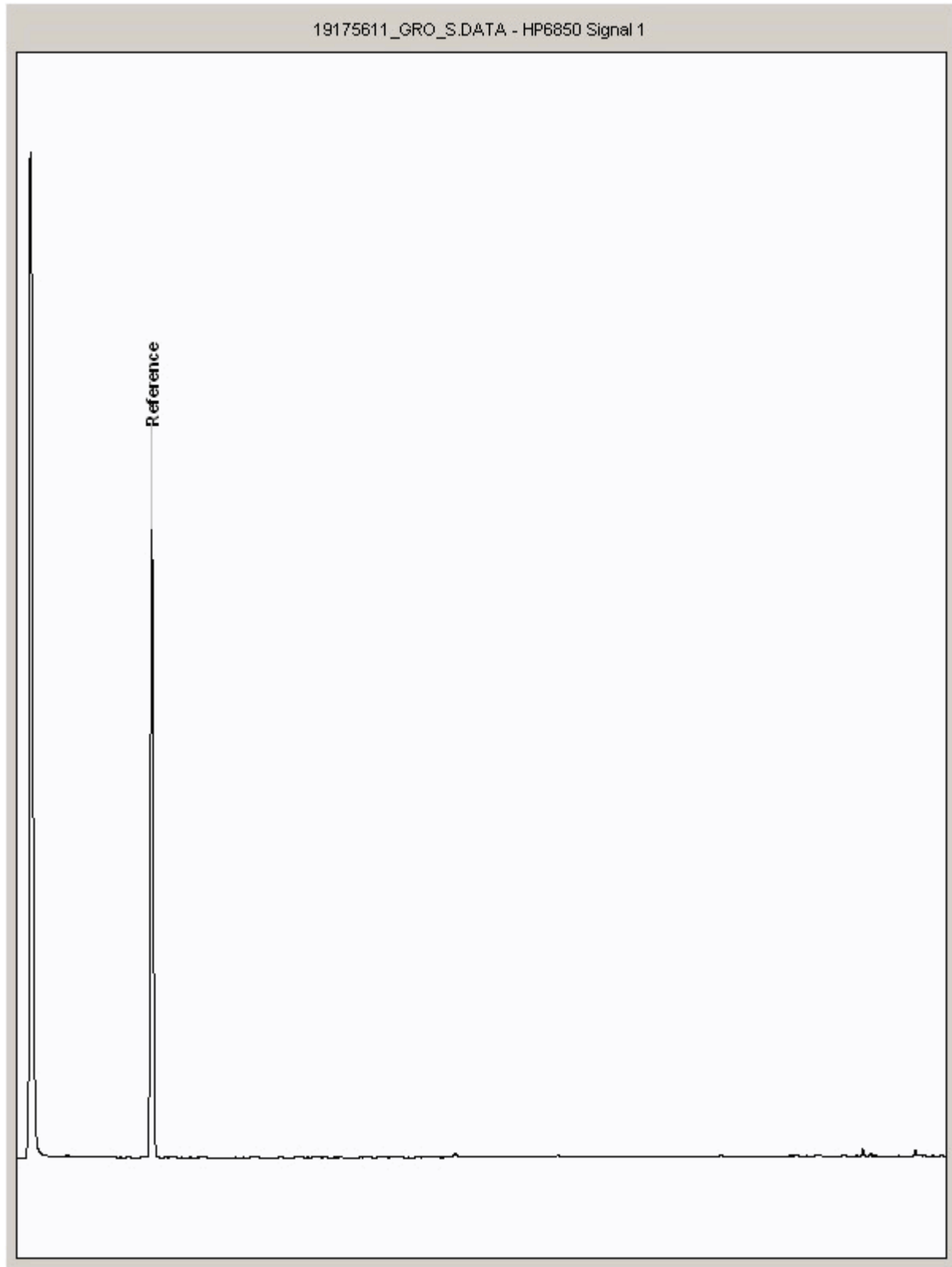
SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19175611
Sample ID : BH232

Depth : 7.00 - 8.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

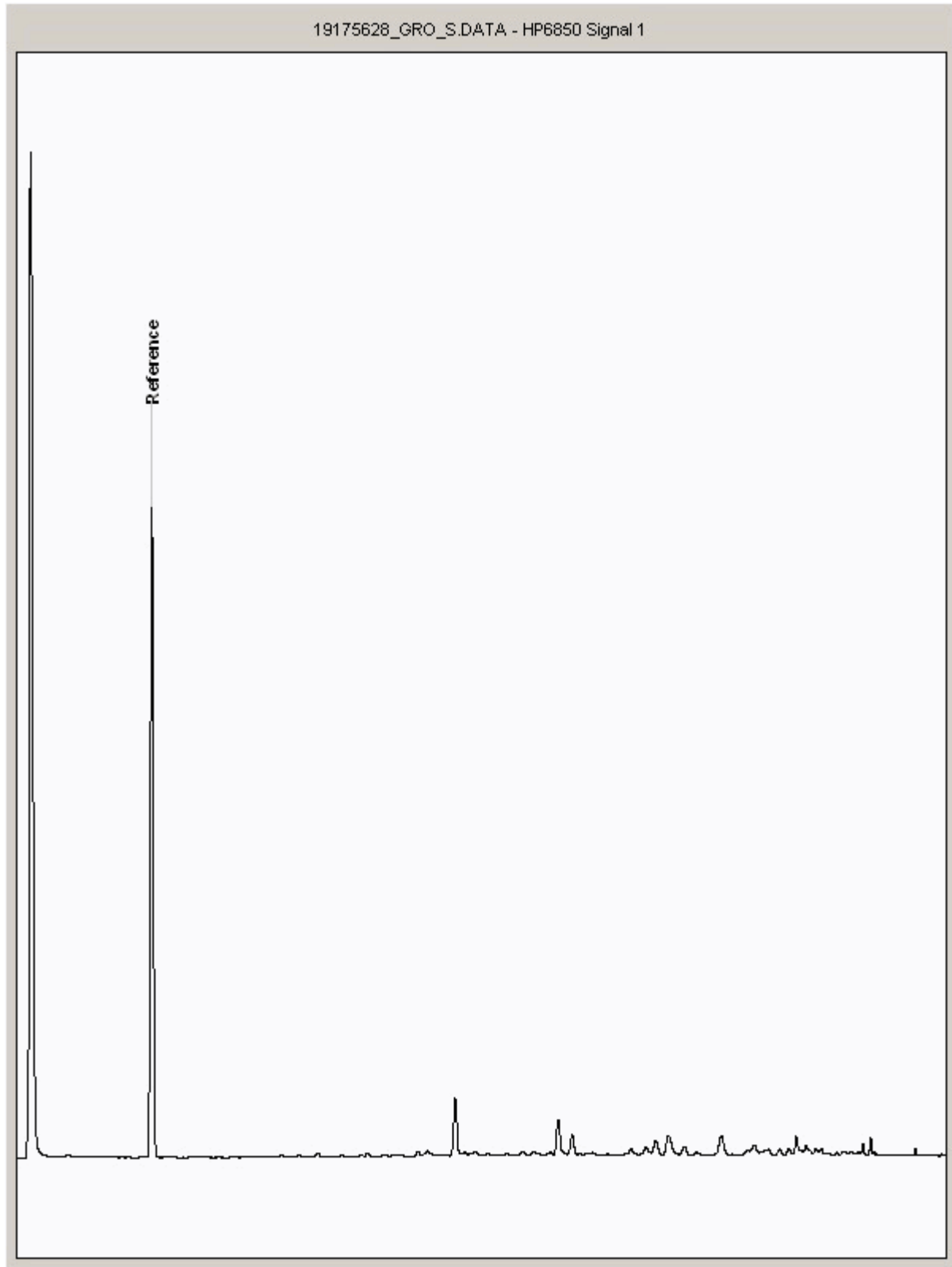
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19175628
Sample ID : BH232

Depth : 5.00 - 6.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

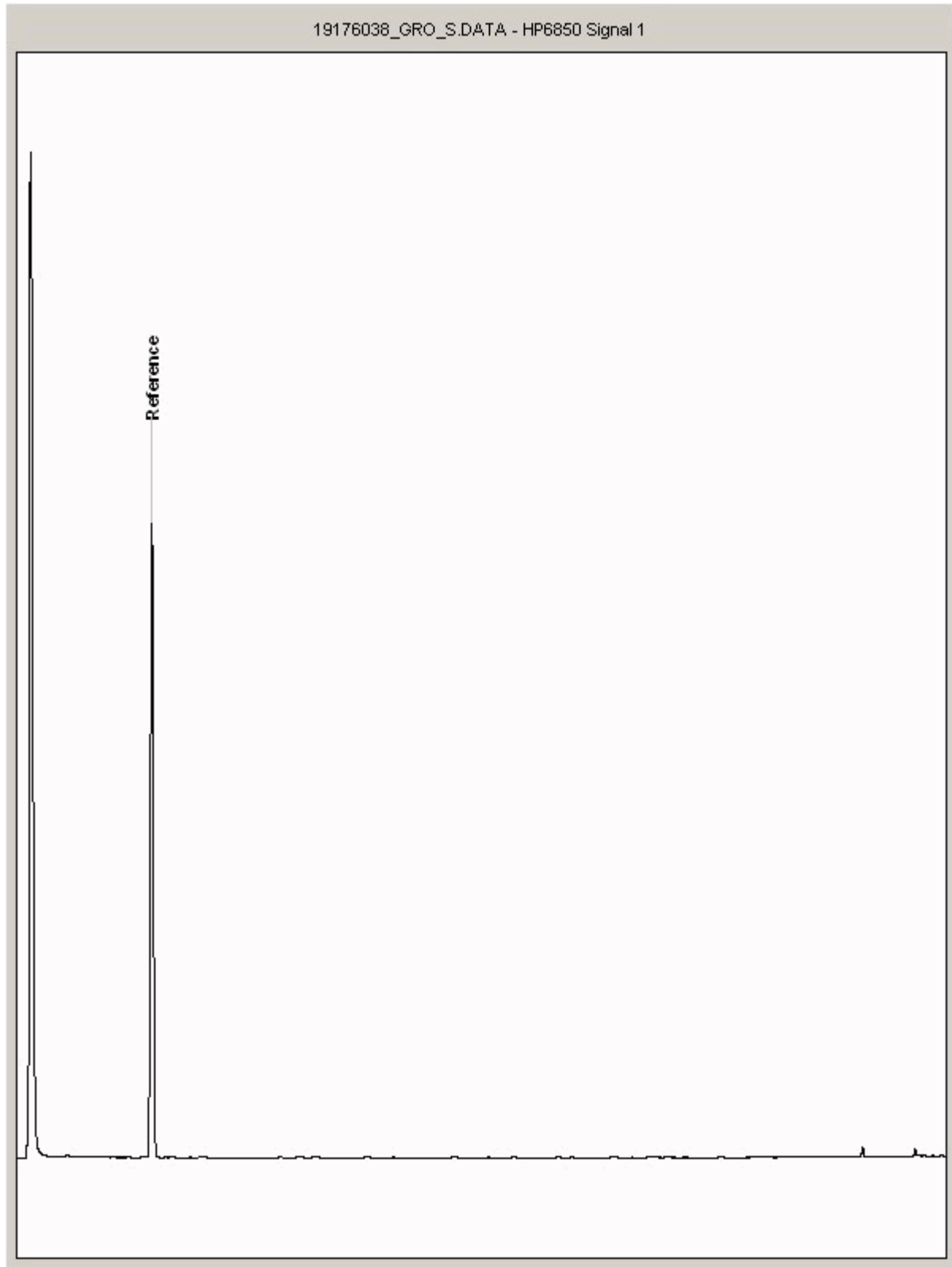
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19176038
Sample ID : BH232

Depth : 8.00 - 10.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

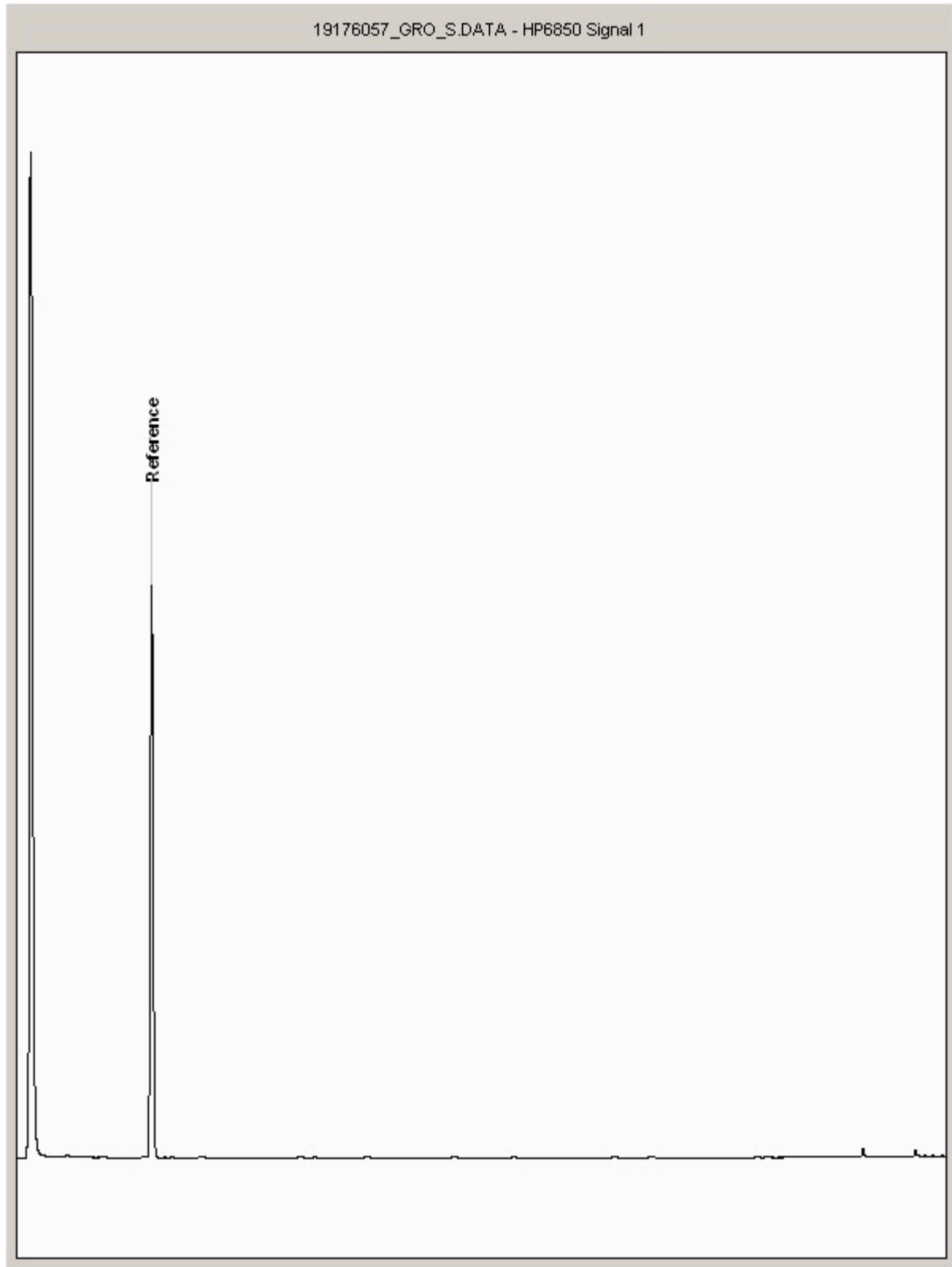
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19176057
Sample ID : BH233

Depth : 9.50 - 10.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

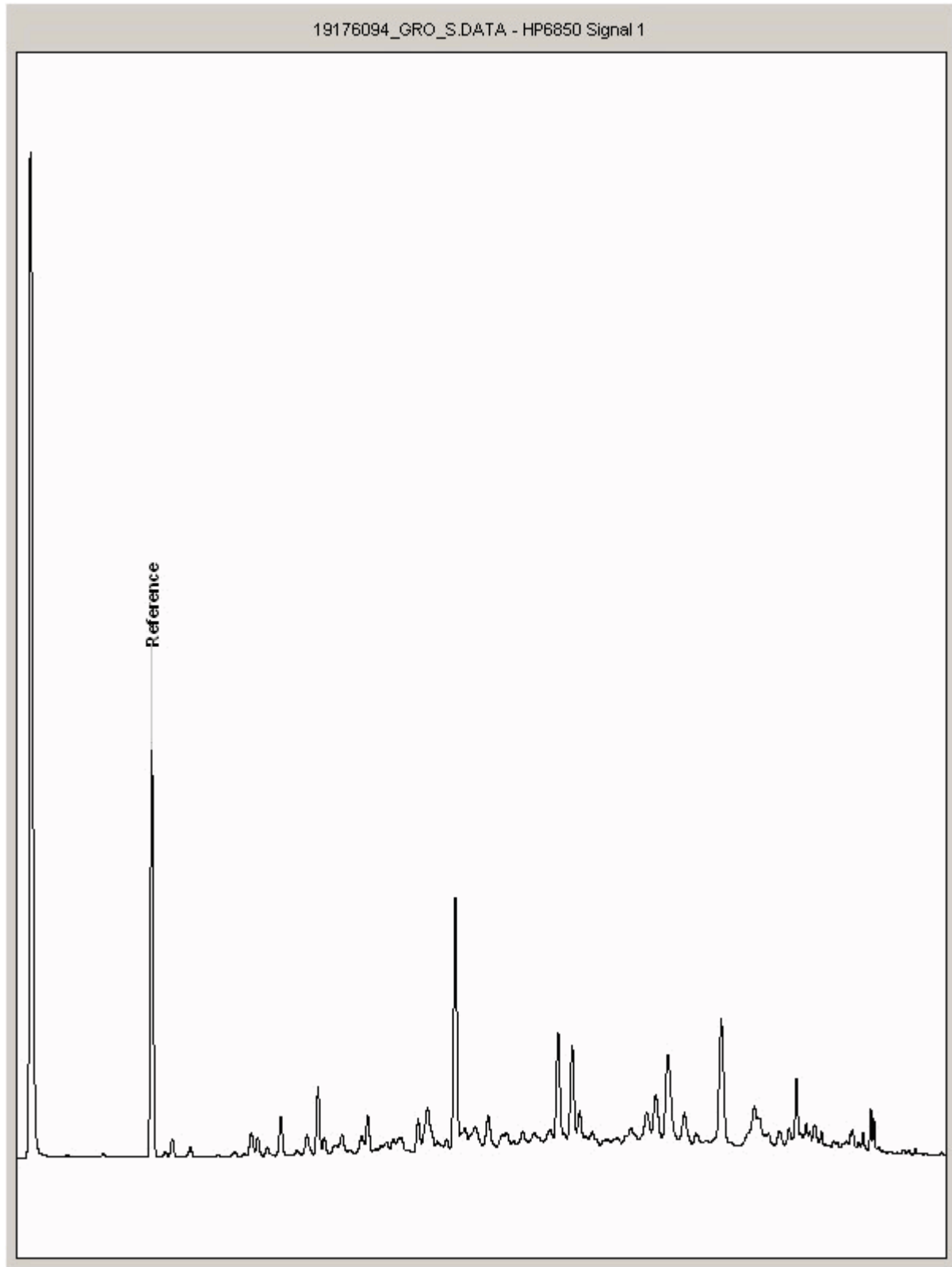
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19176094
Sample ID : BH232

Depth : 0.00 - 0.50





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

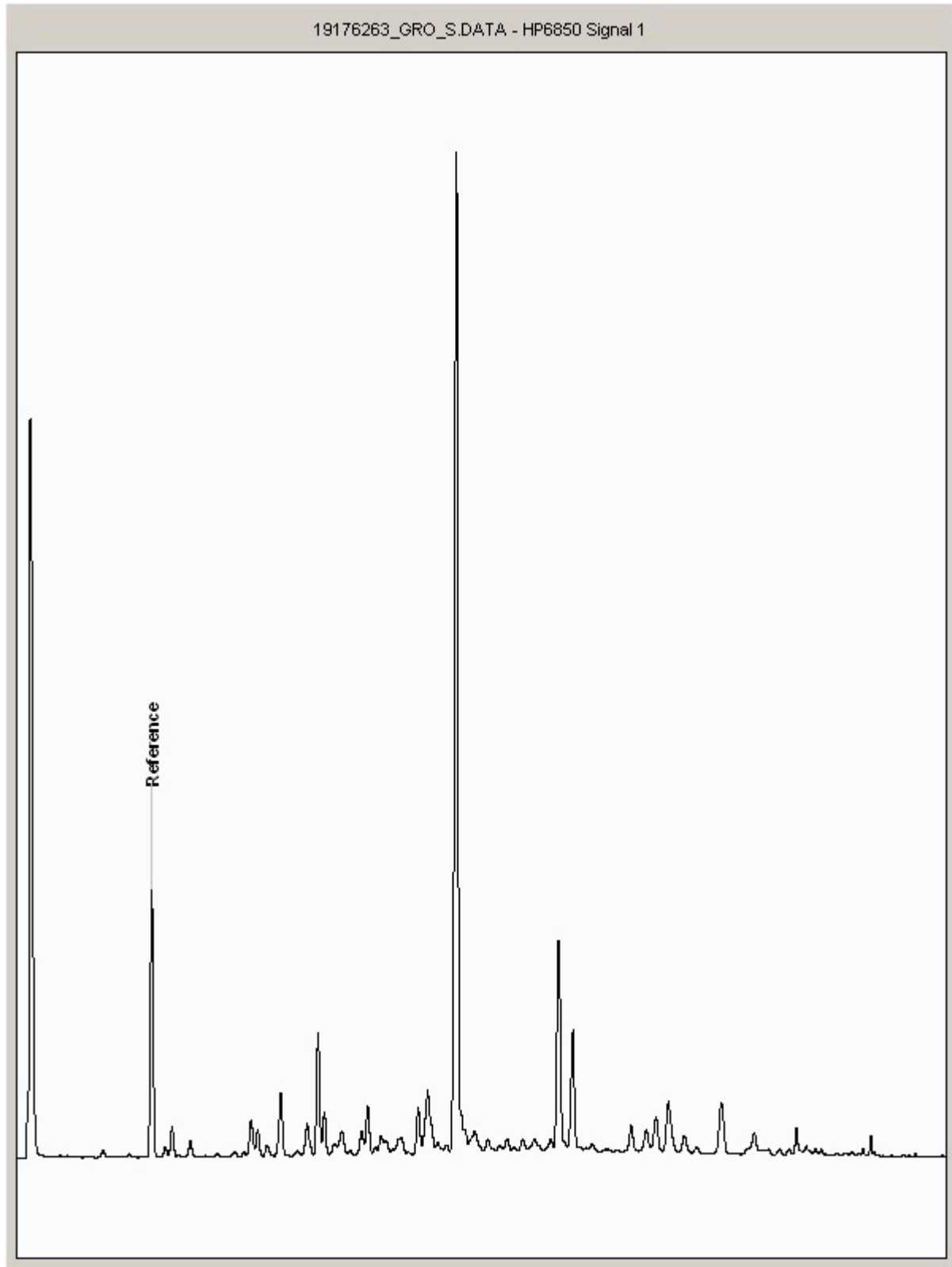
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19176263
Sample ID : BH232

Depth : 1.00 - 2.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

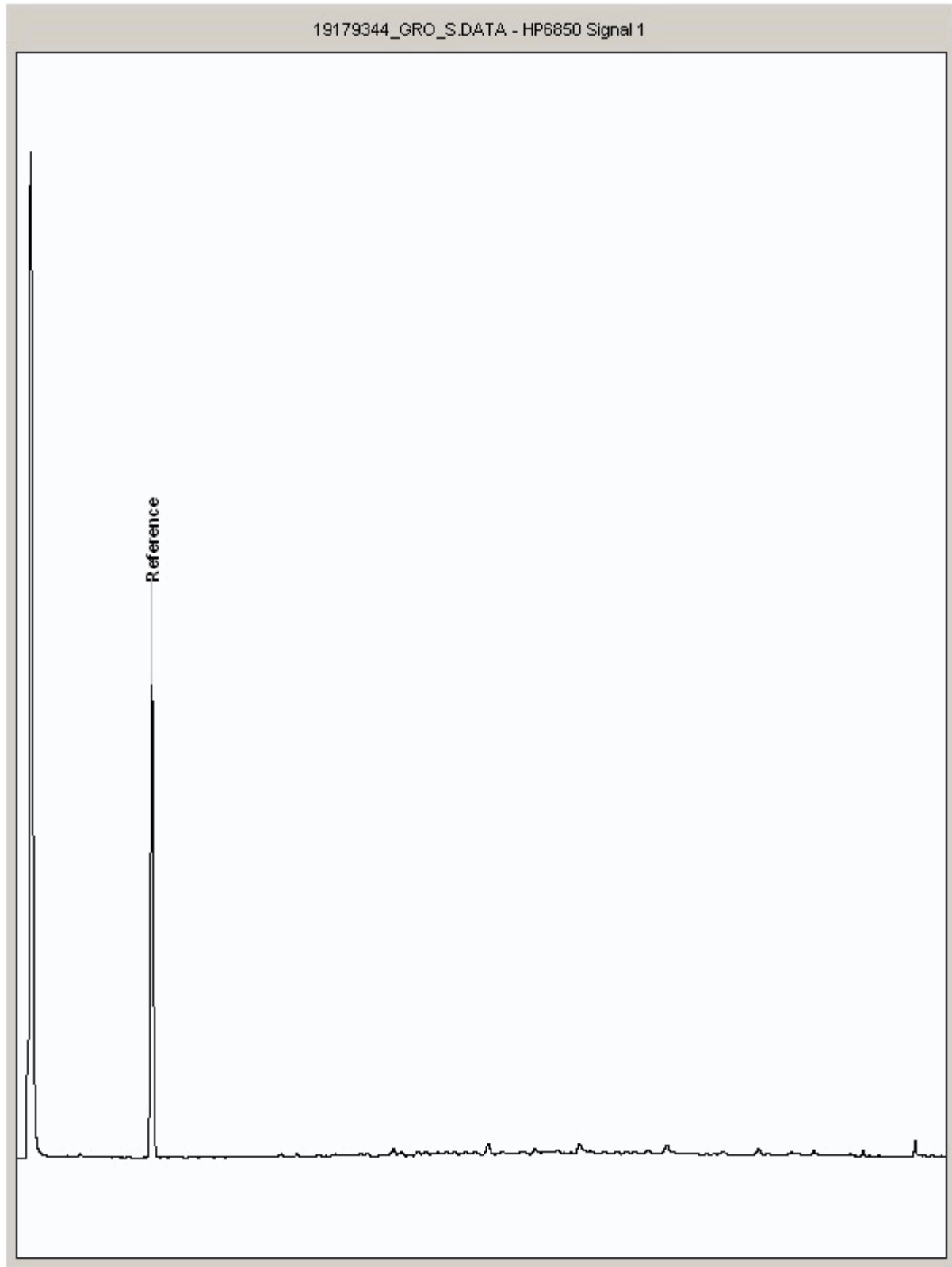
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19179344
Sample ID : BH234

Depth : 5.00 - 6.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

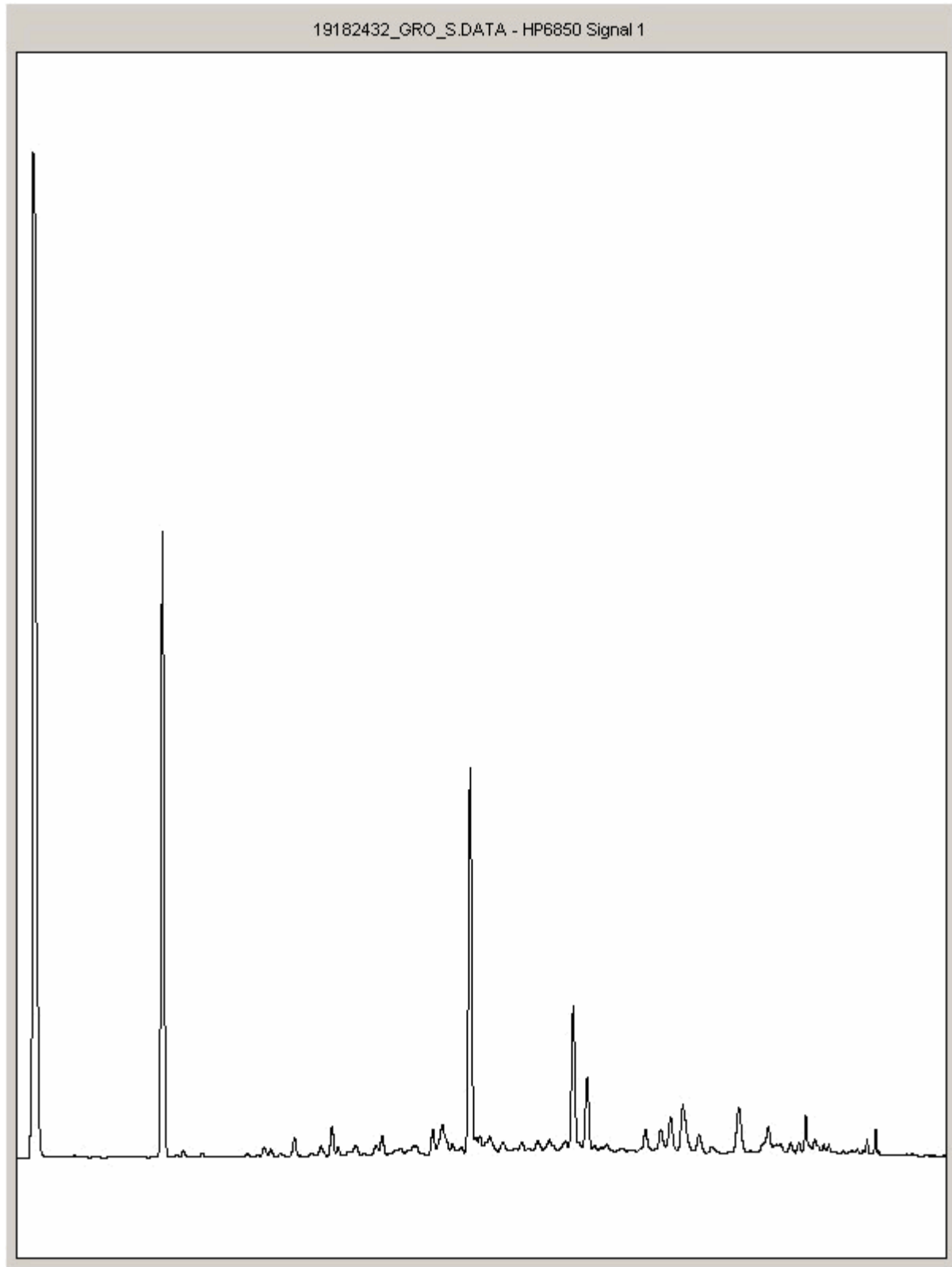
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19182432
Sample ID : BH232

Depth : 4.00 - 5.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

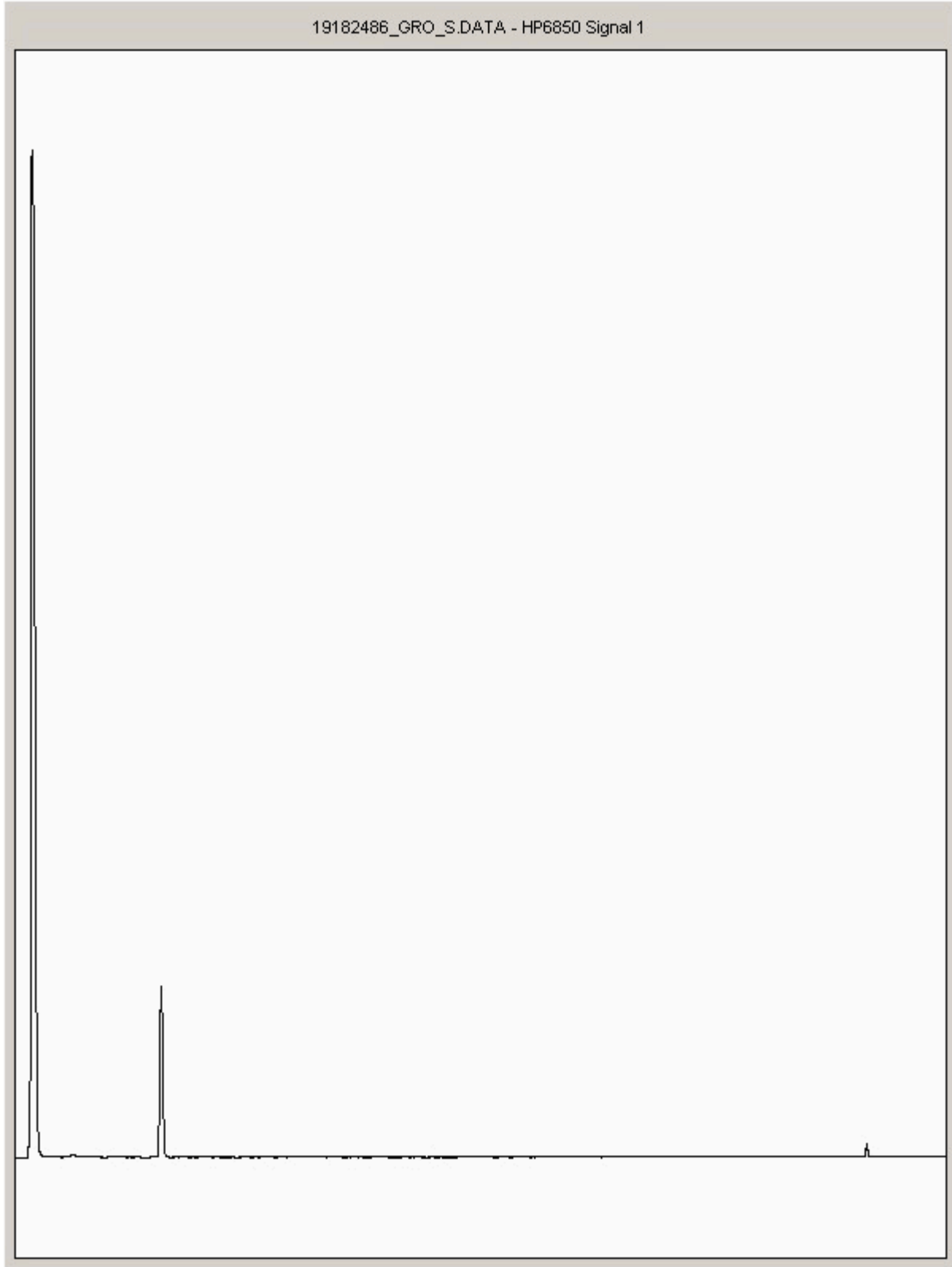
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19182486
Sample ID : BH232

Depth : 15.00 - 16.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

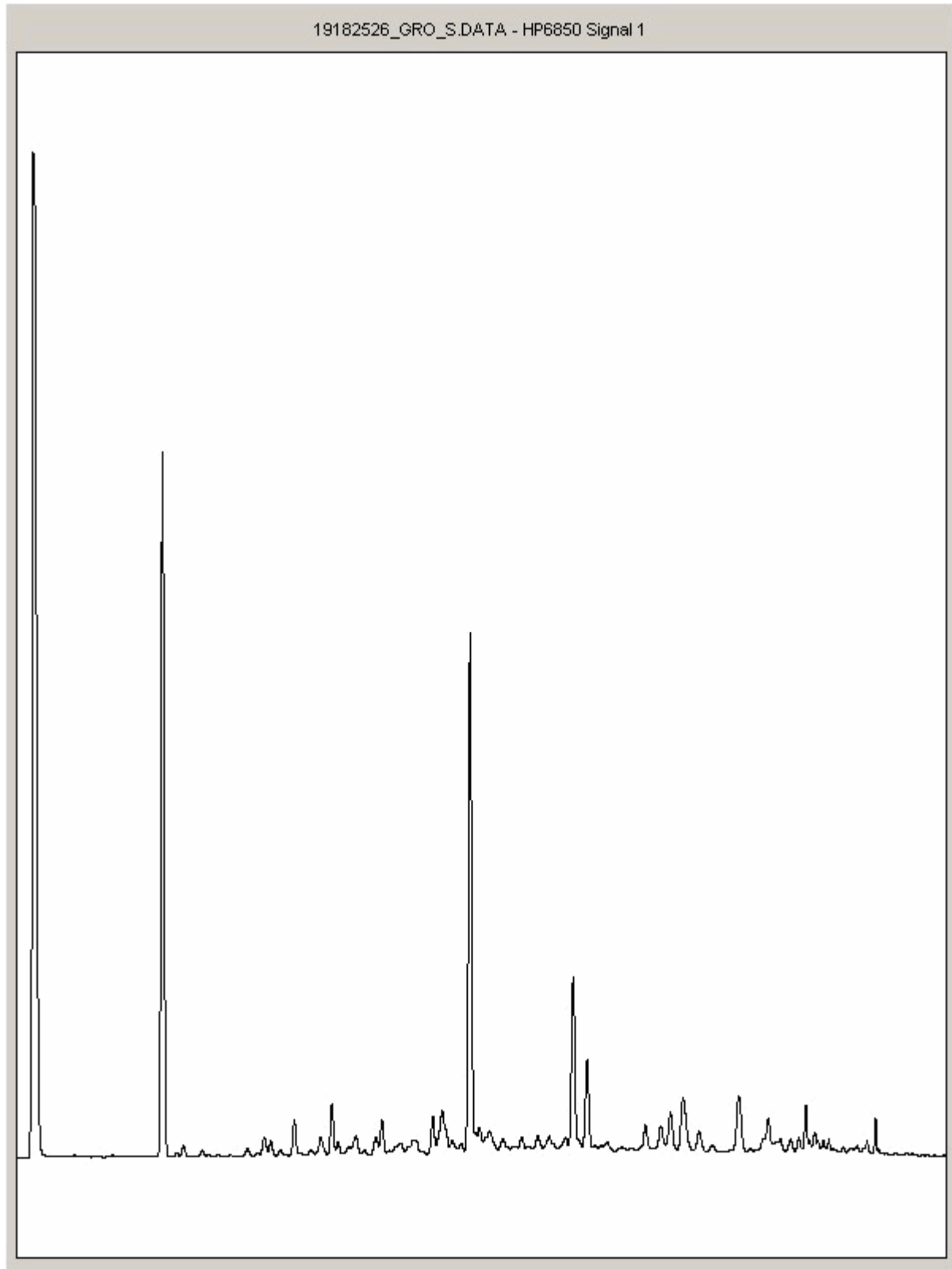
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19182526
Sample ID : BH232

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

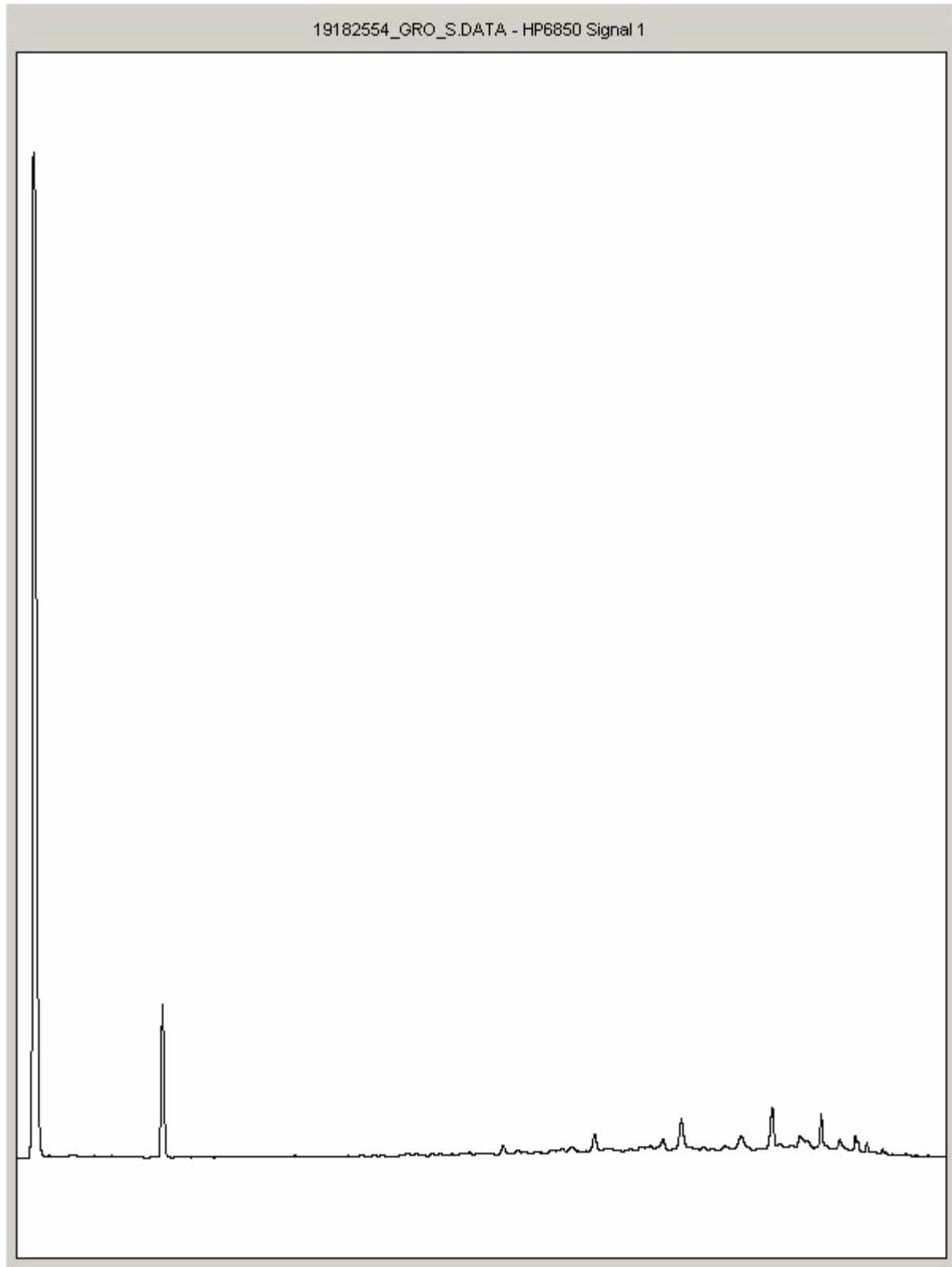
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19182554
Sample ID : BH234

Depth : 16.00 - 17.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

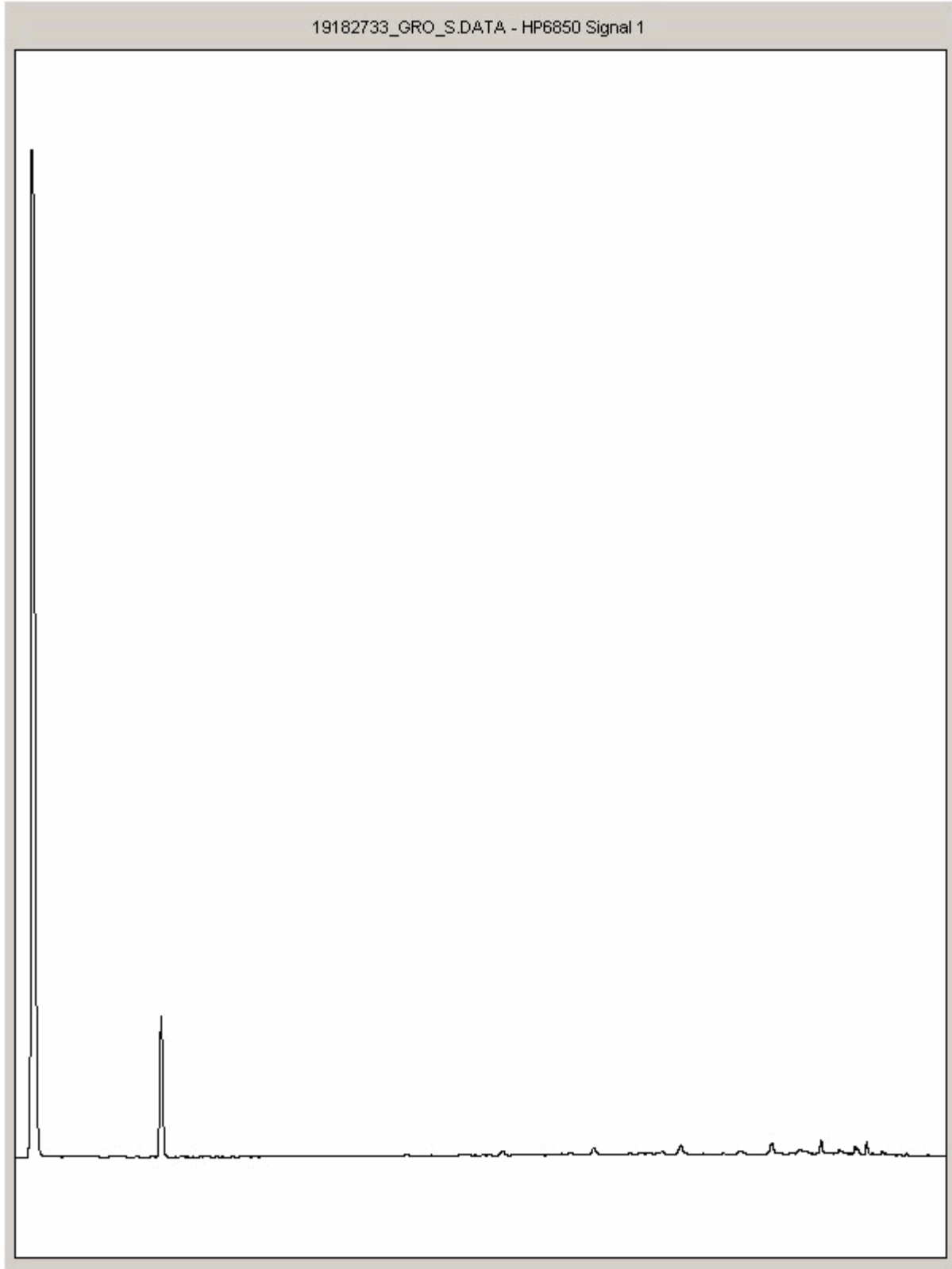
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19182733
Sample ID : BH234

Depth : 13.00 - 14.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

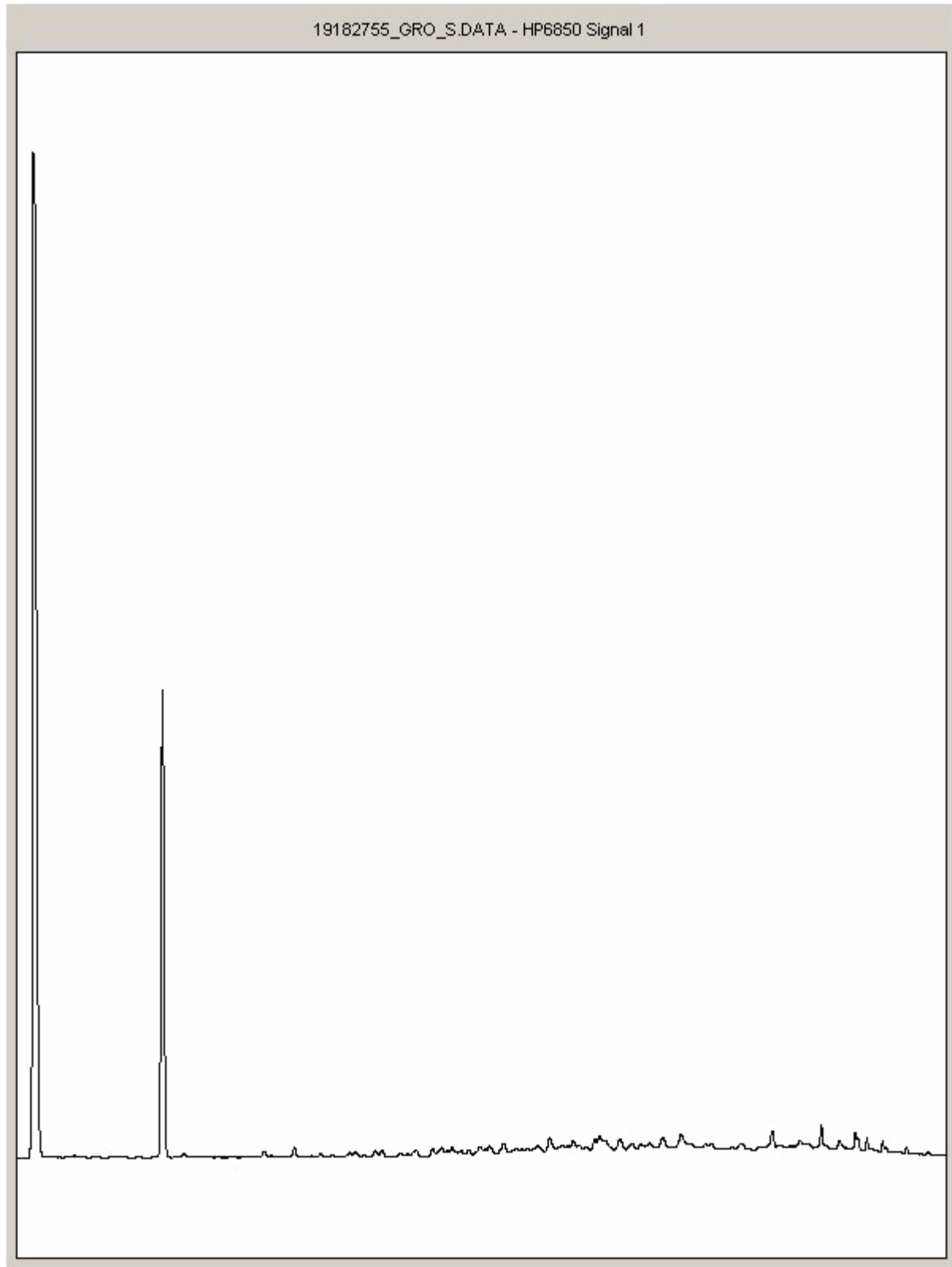
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19182755
Sample ID : BH234

Depth : 0.80 - 1.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

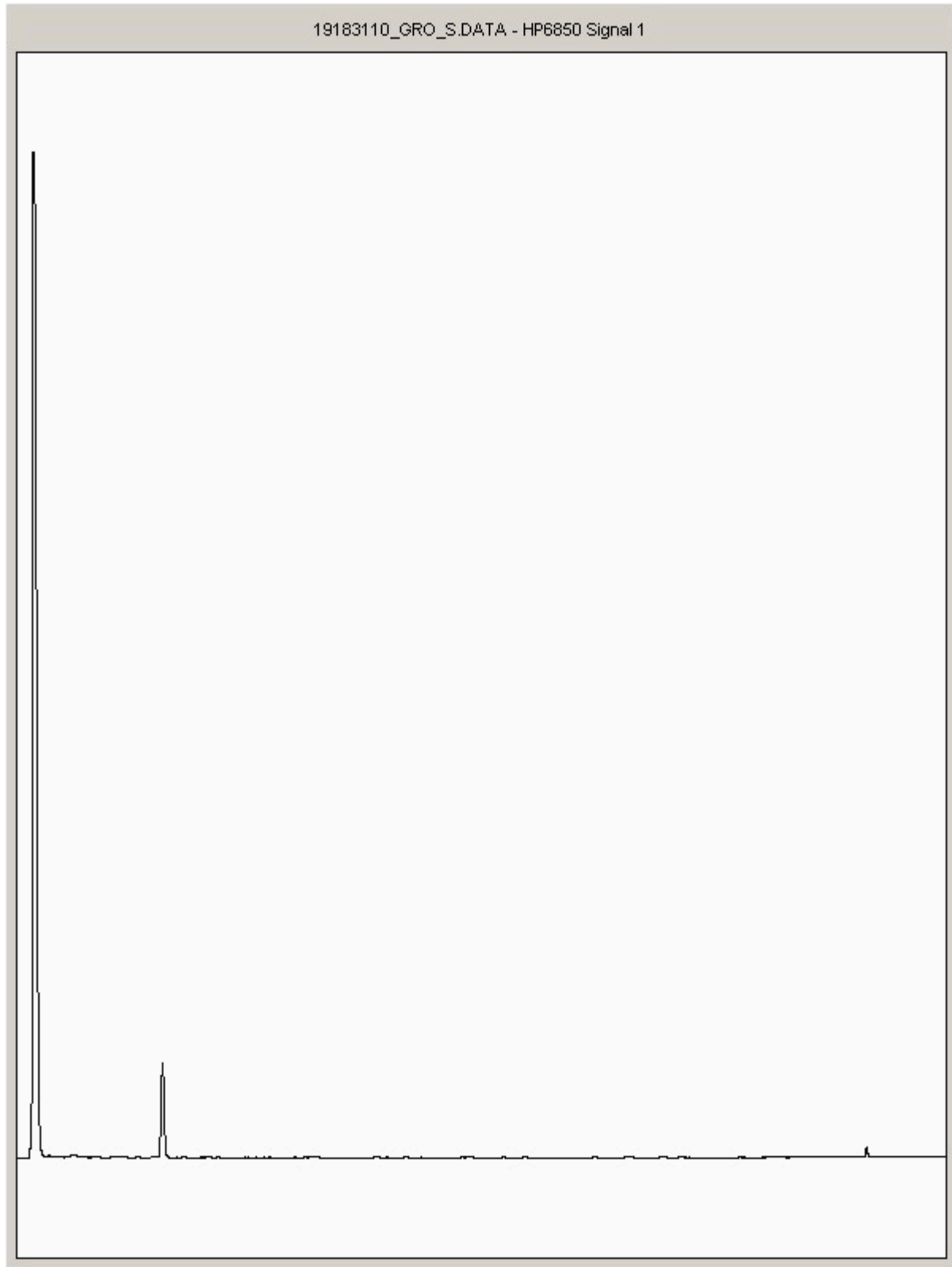
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19183110
Sample ID : BH233

Depth : 16.00 - 17.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

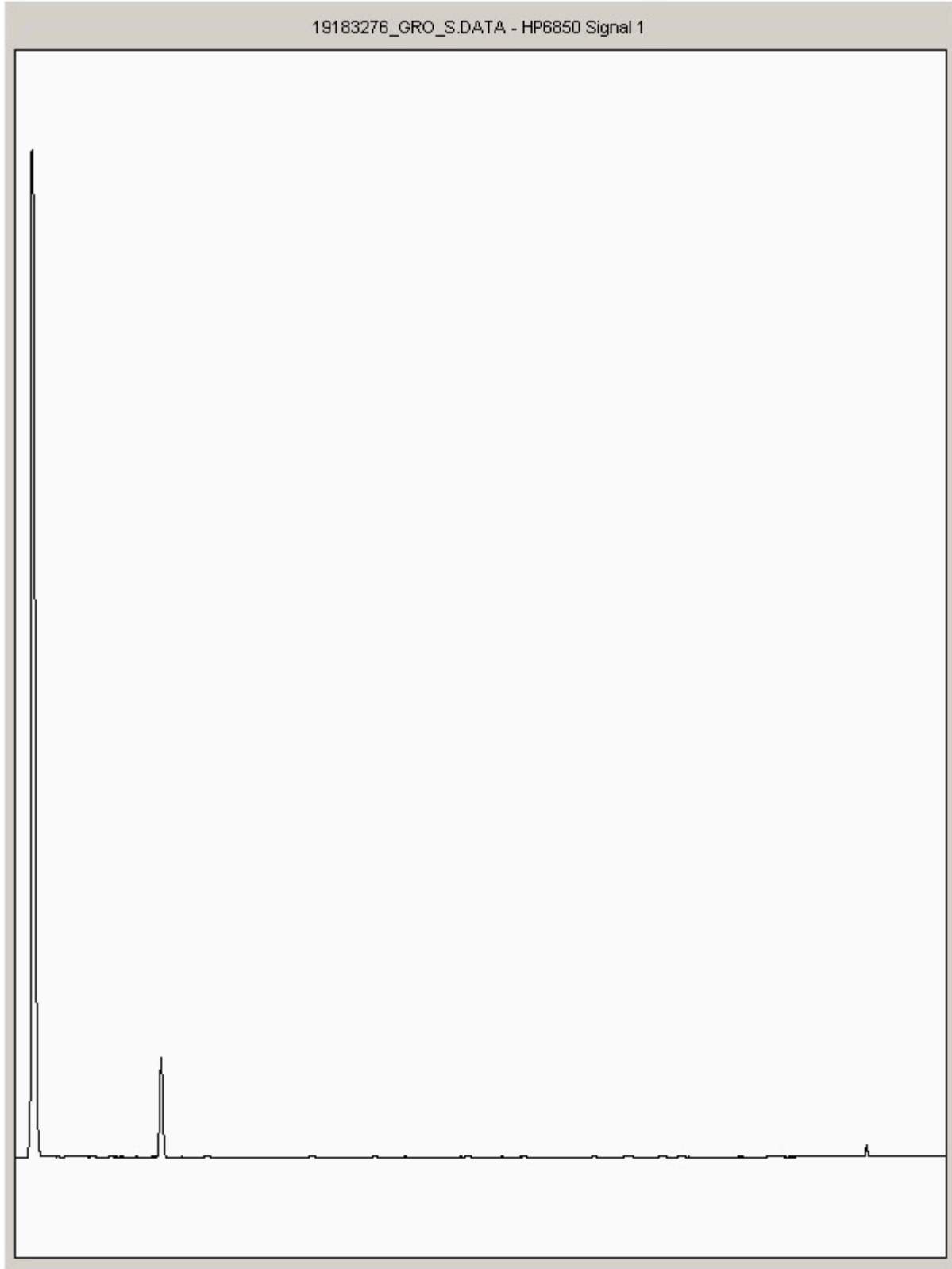
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19183276
Sample ID : BH233

Depth : 12.50 - 13.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

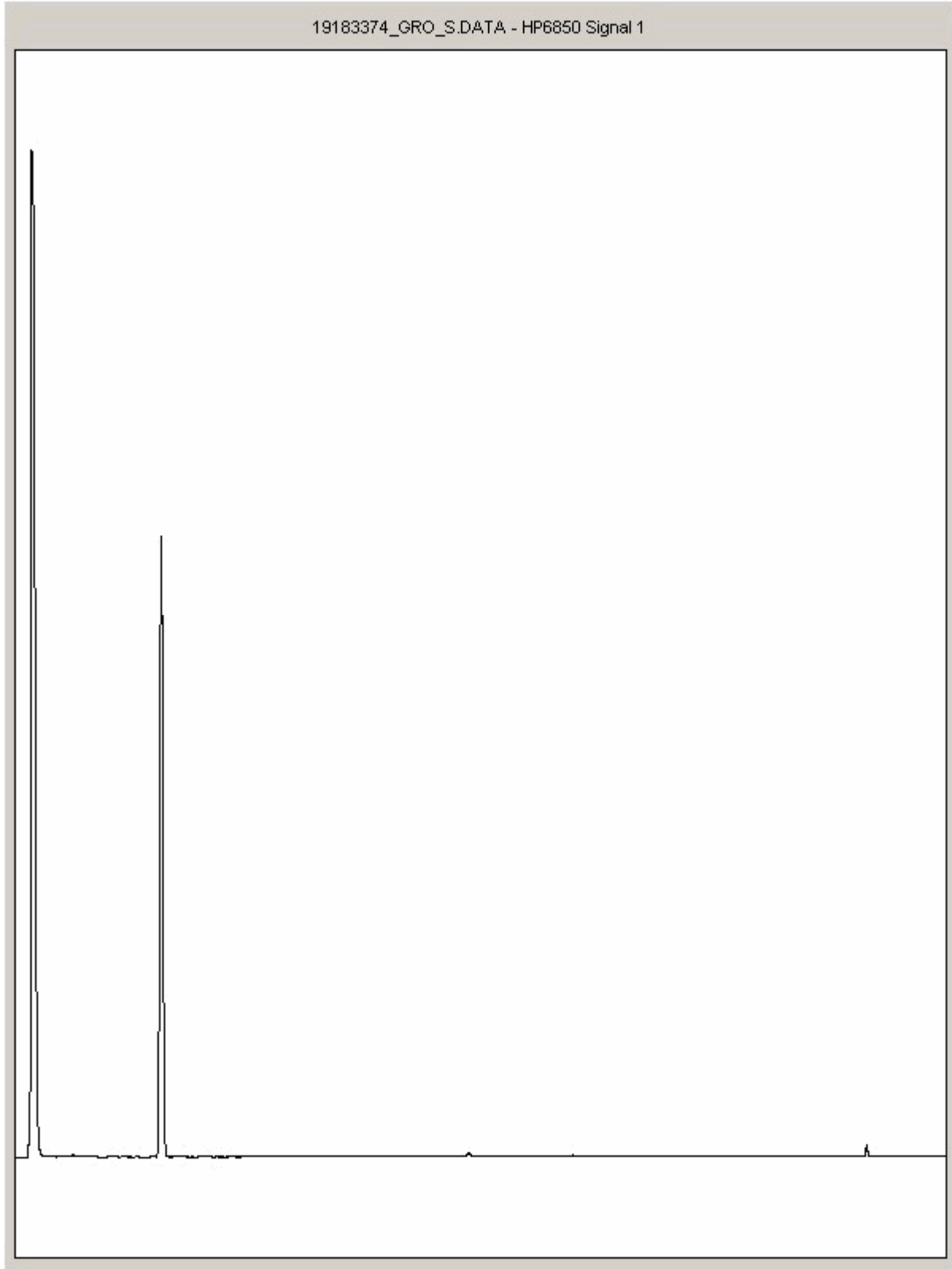
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19183374
Sample ID : BH233

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

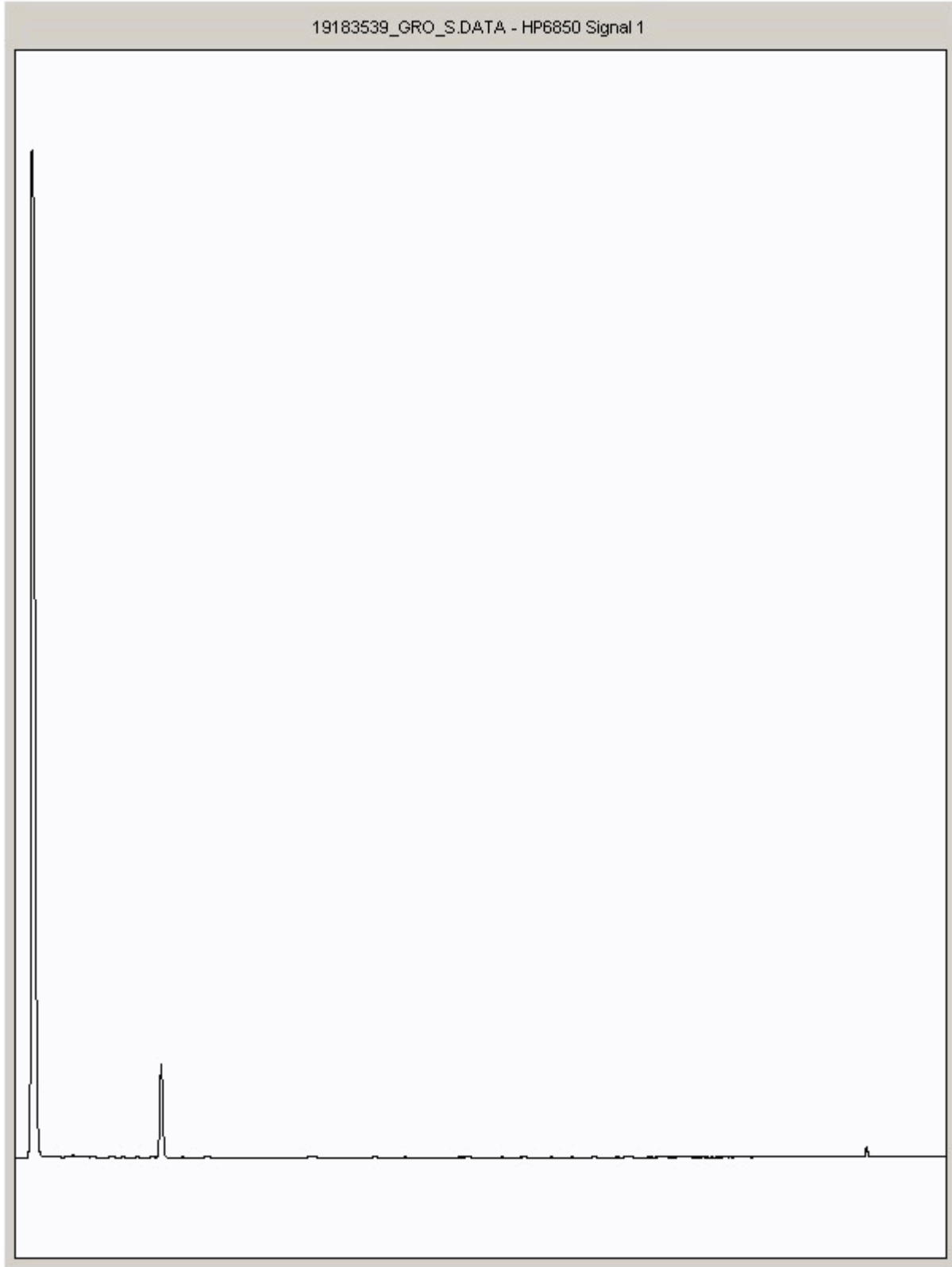
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19183539
Sample ID : BH233

Depth : 14.00 - 15.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

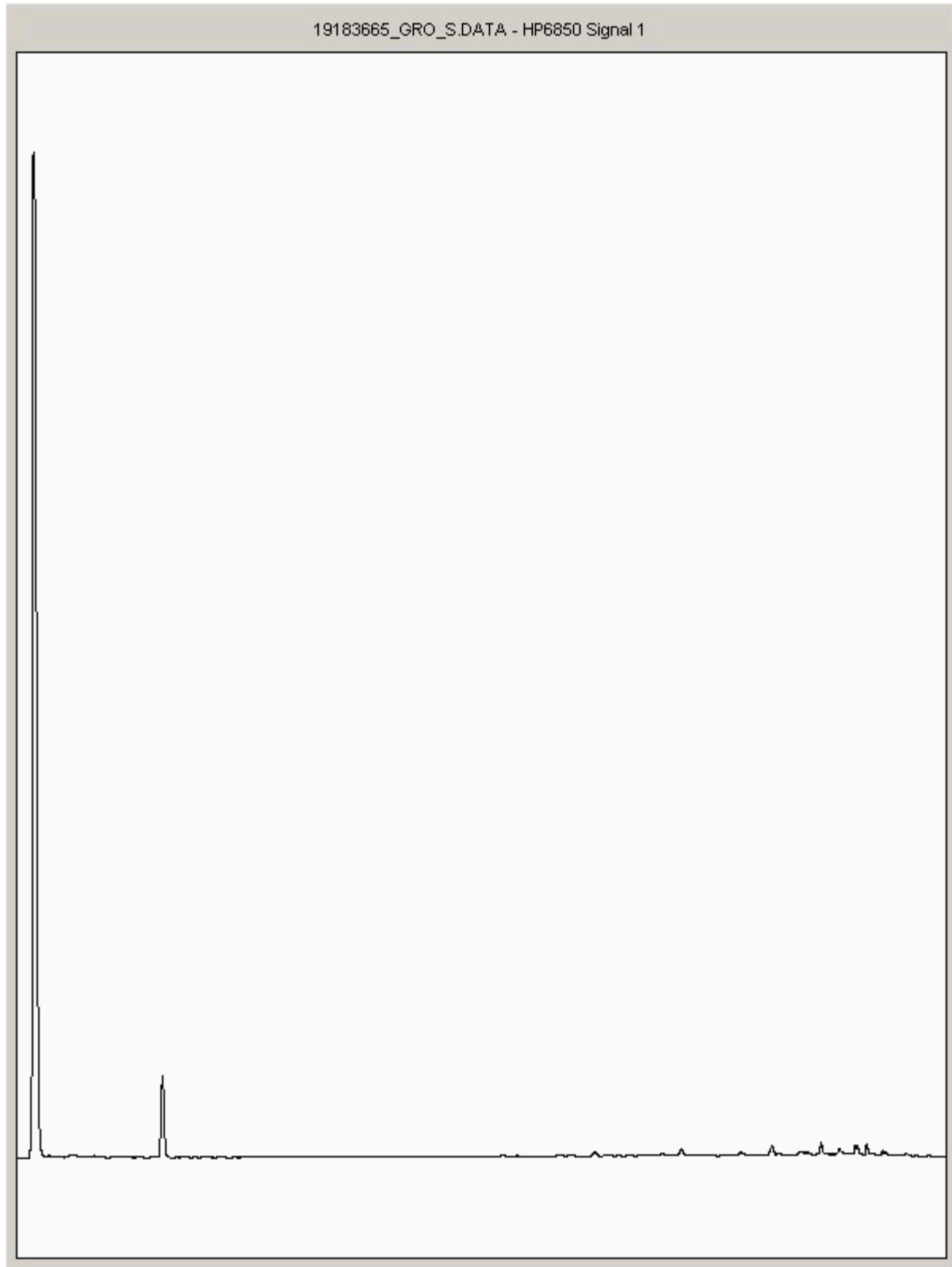
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19183665
Sample ID : BH234

Depth : 15.00 - 16.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

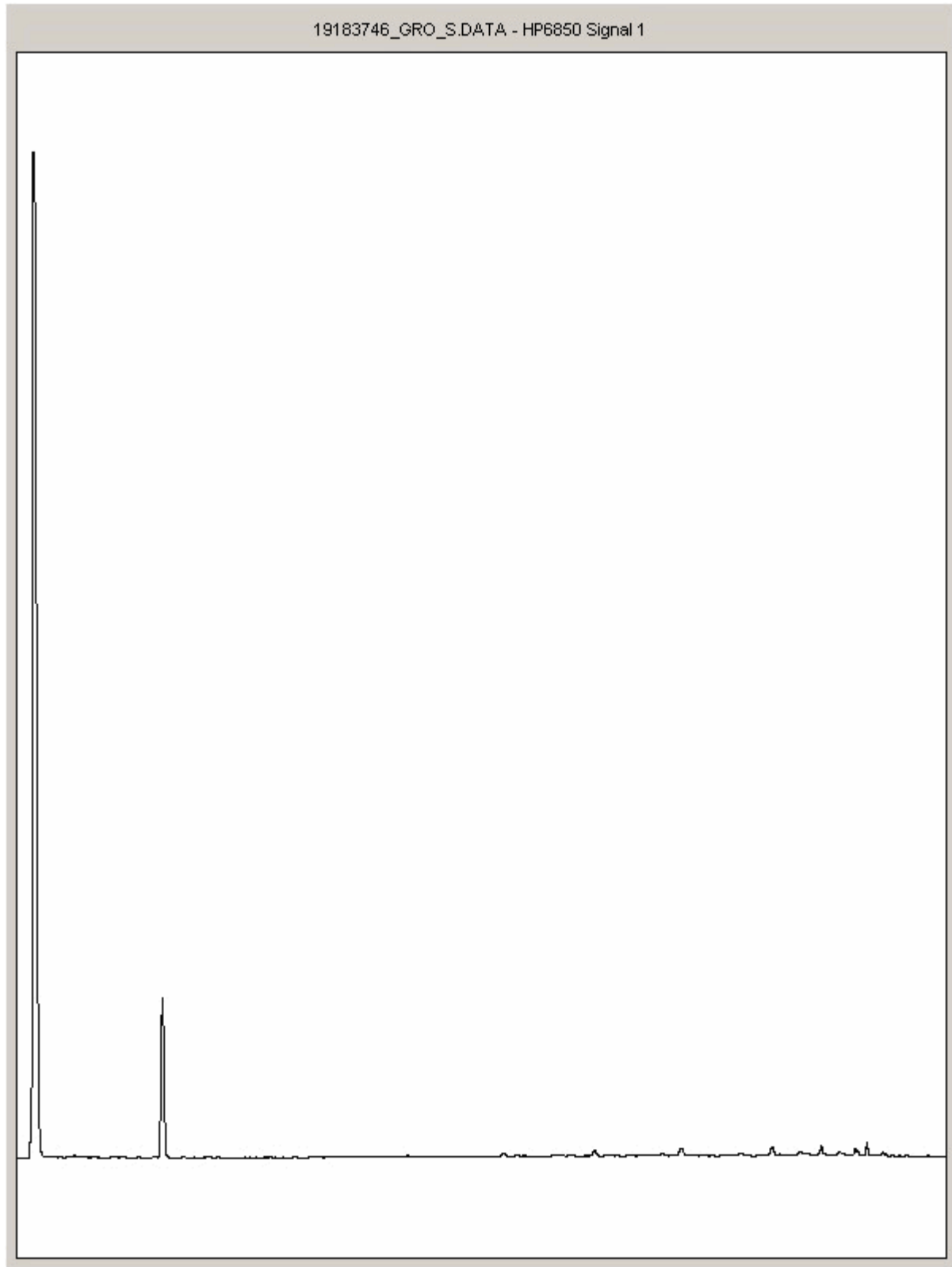
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19183746
Sample ID : BH234

Depth : 12.00 - 13.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

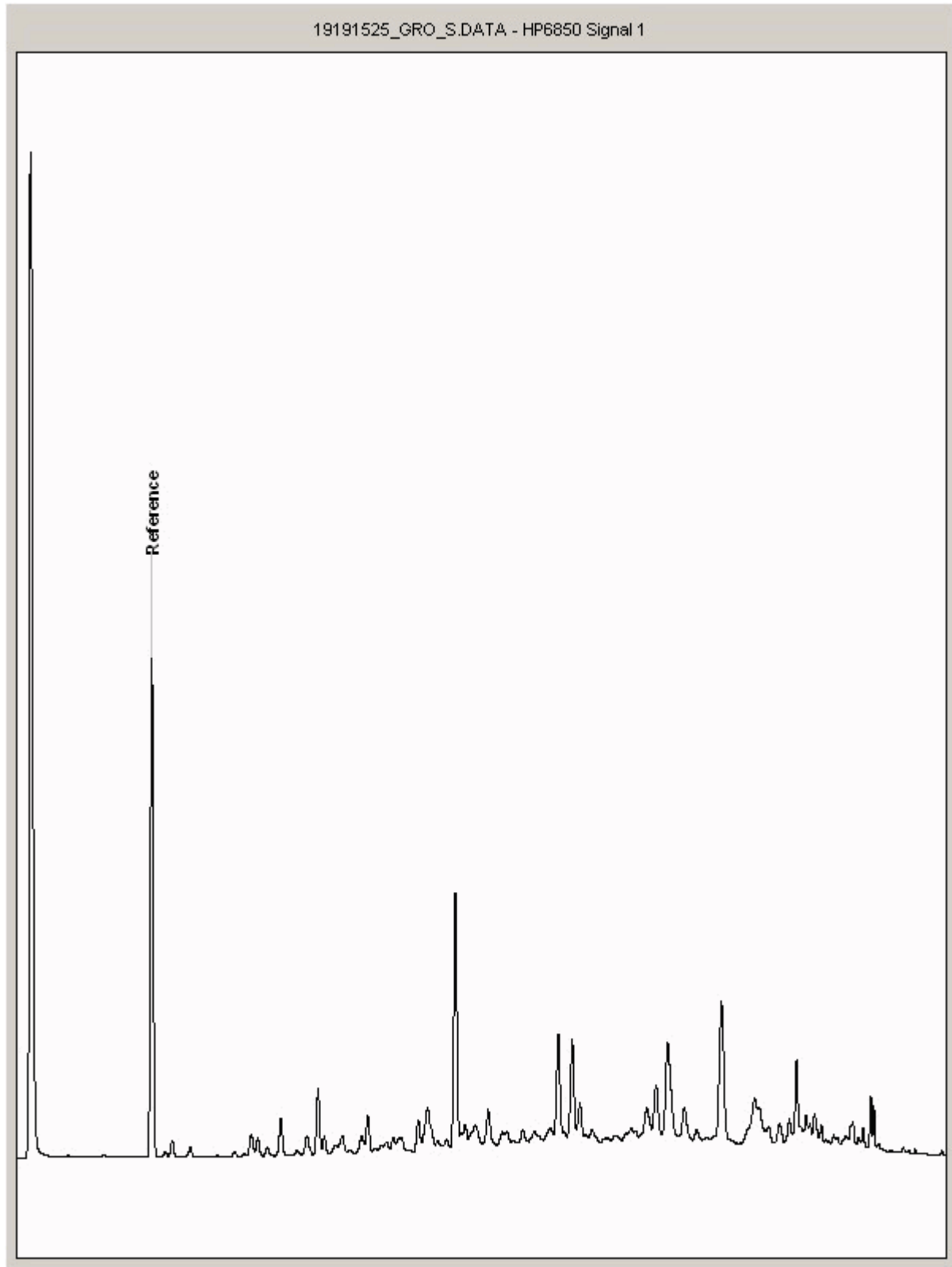
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19191525
Sample ID : BH232

Depth : 0.00 - 0.50





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

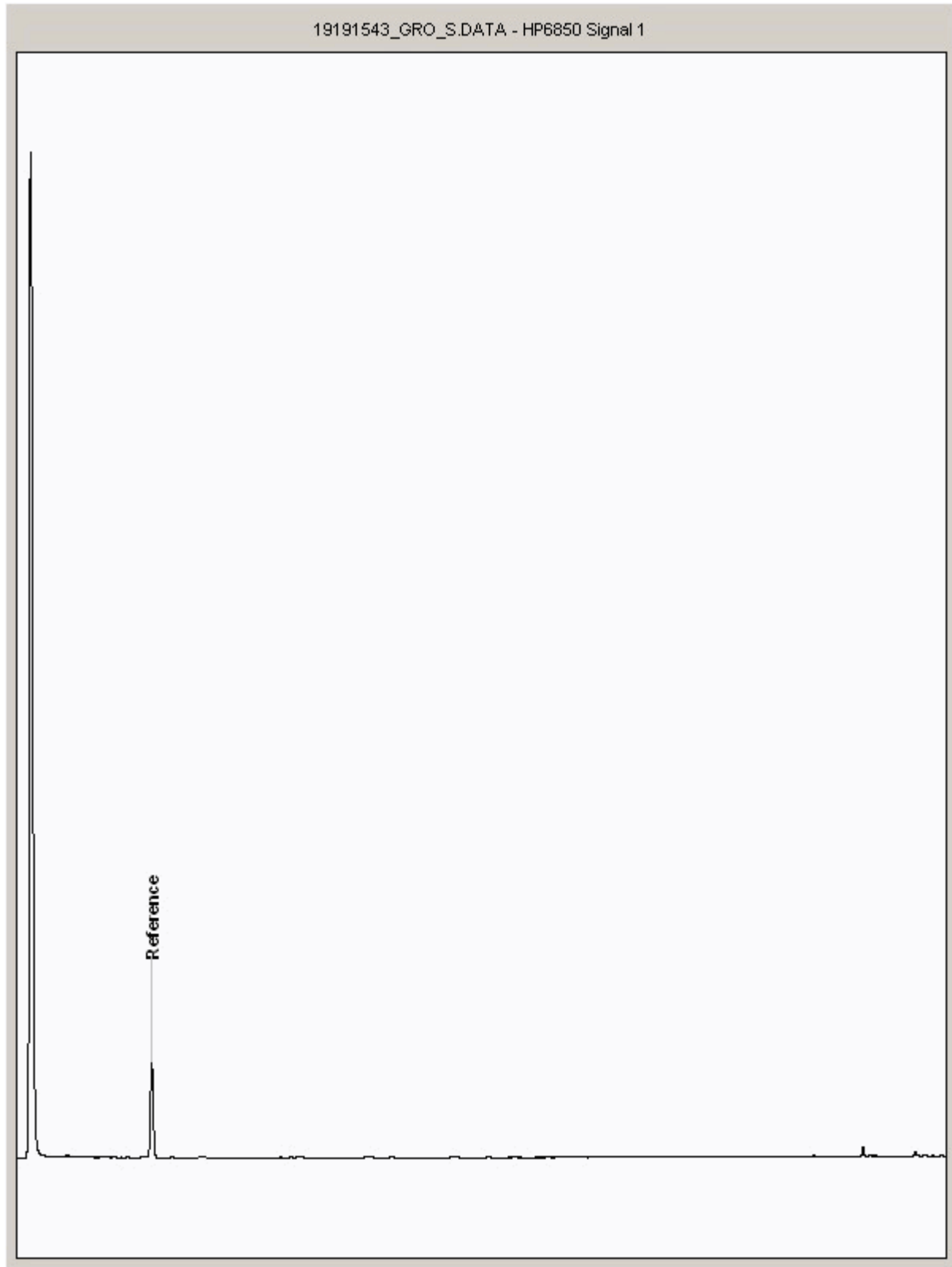
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19191543
Sample ID : BH232

Depth : 13.00 - 14.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

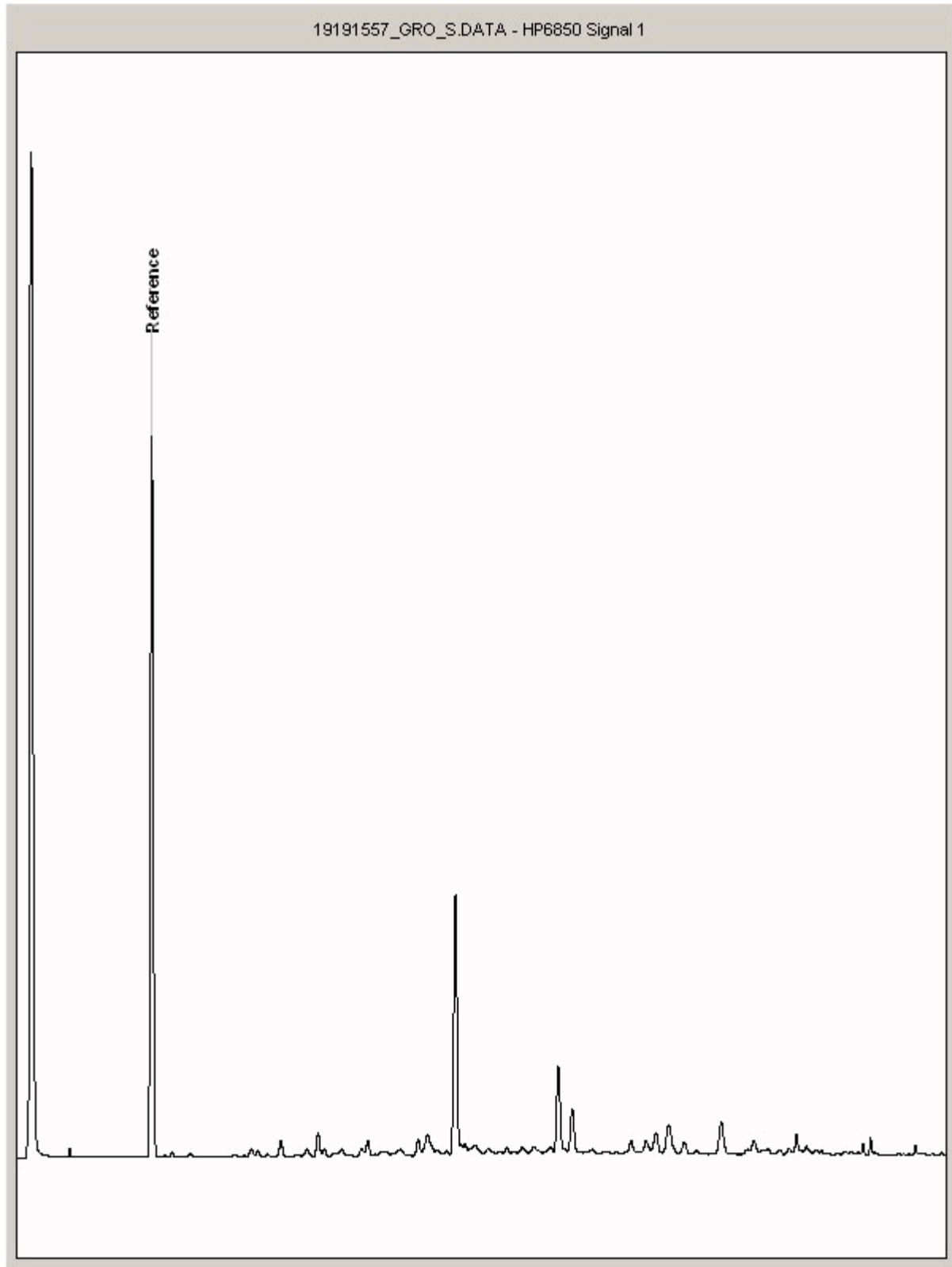
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19191557
Sample ID : BH232

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

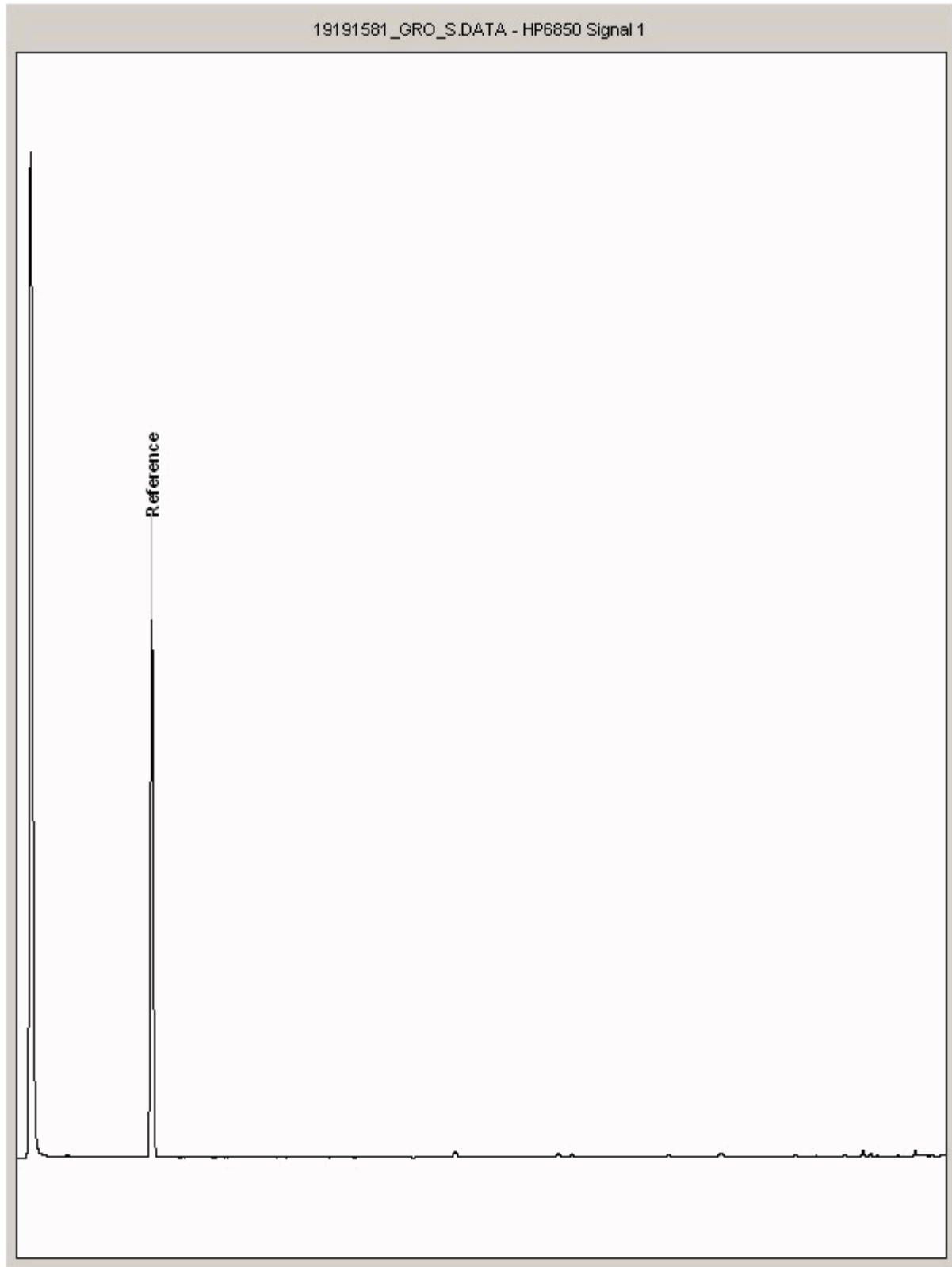
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19191581
Sample ID : BH233

Depth : 0.00 - 0.50





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

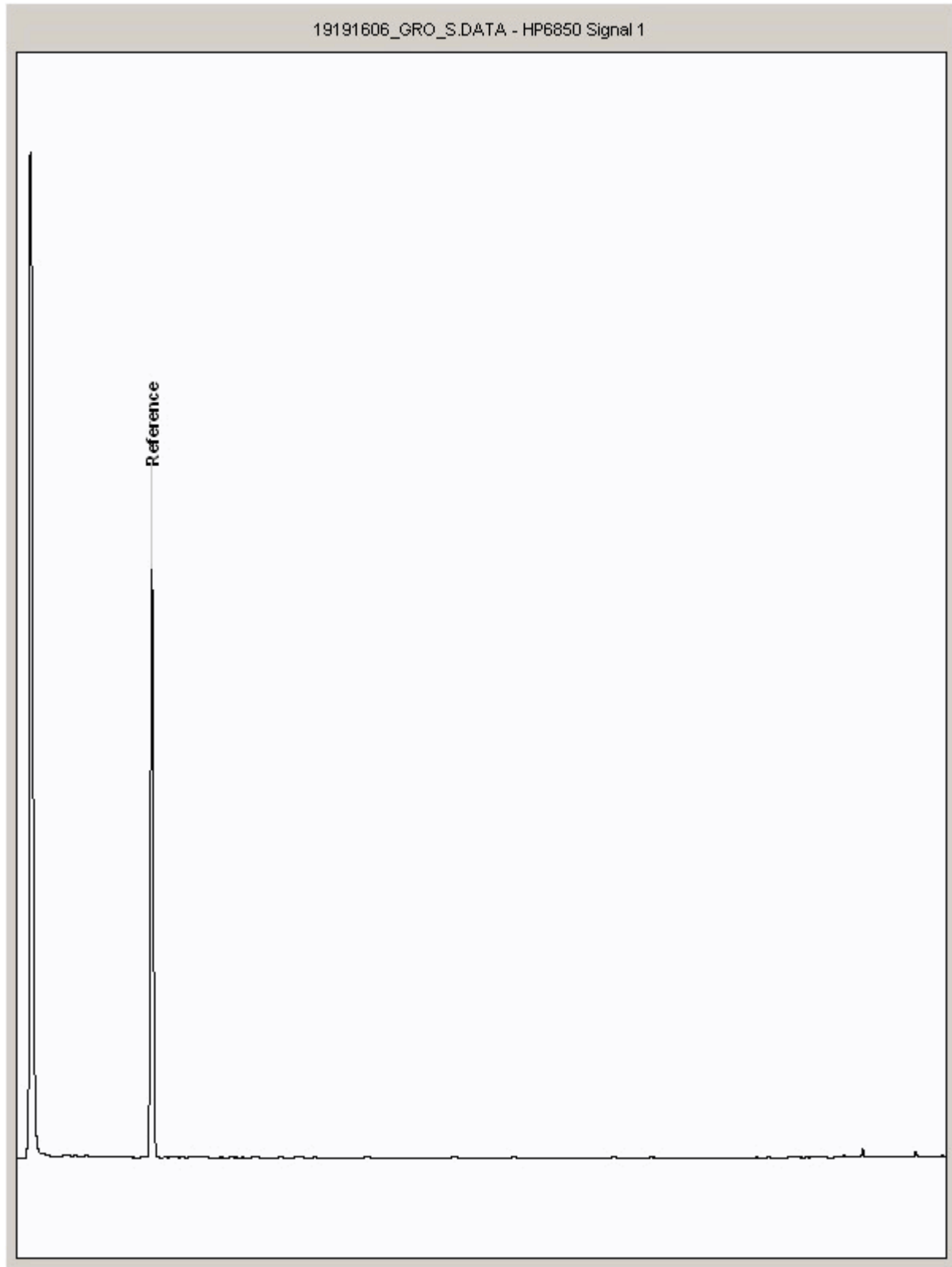
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19191606
Sample ID : BH232

Depth : 10.00 - 12.50





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

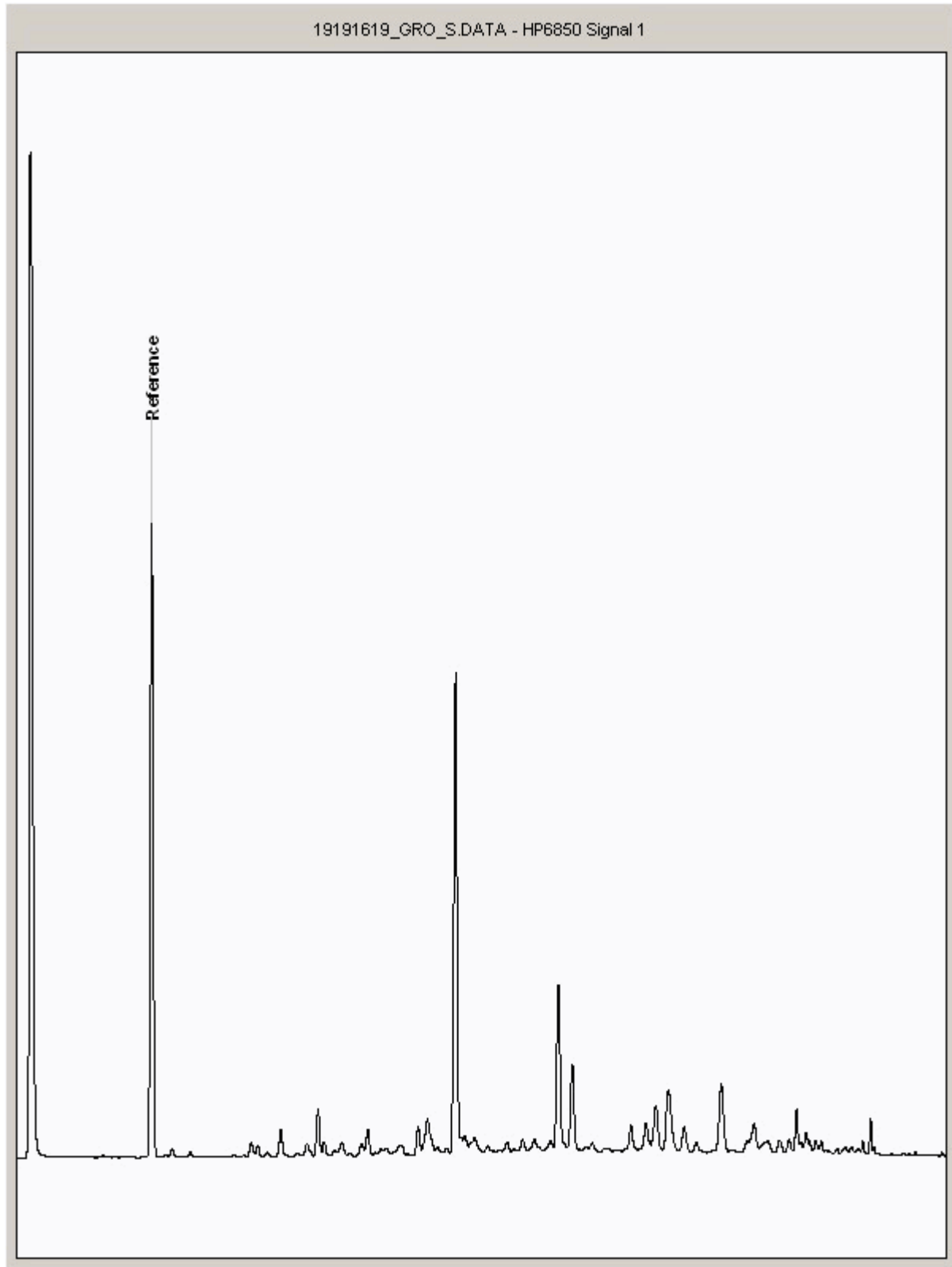
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19191619
Sample ID : BH232

Depth : 1.00 - 2.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

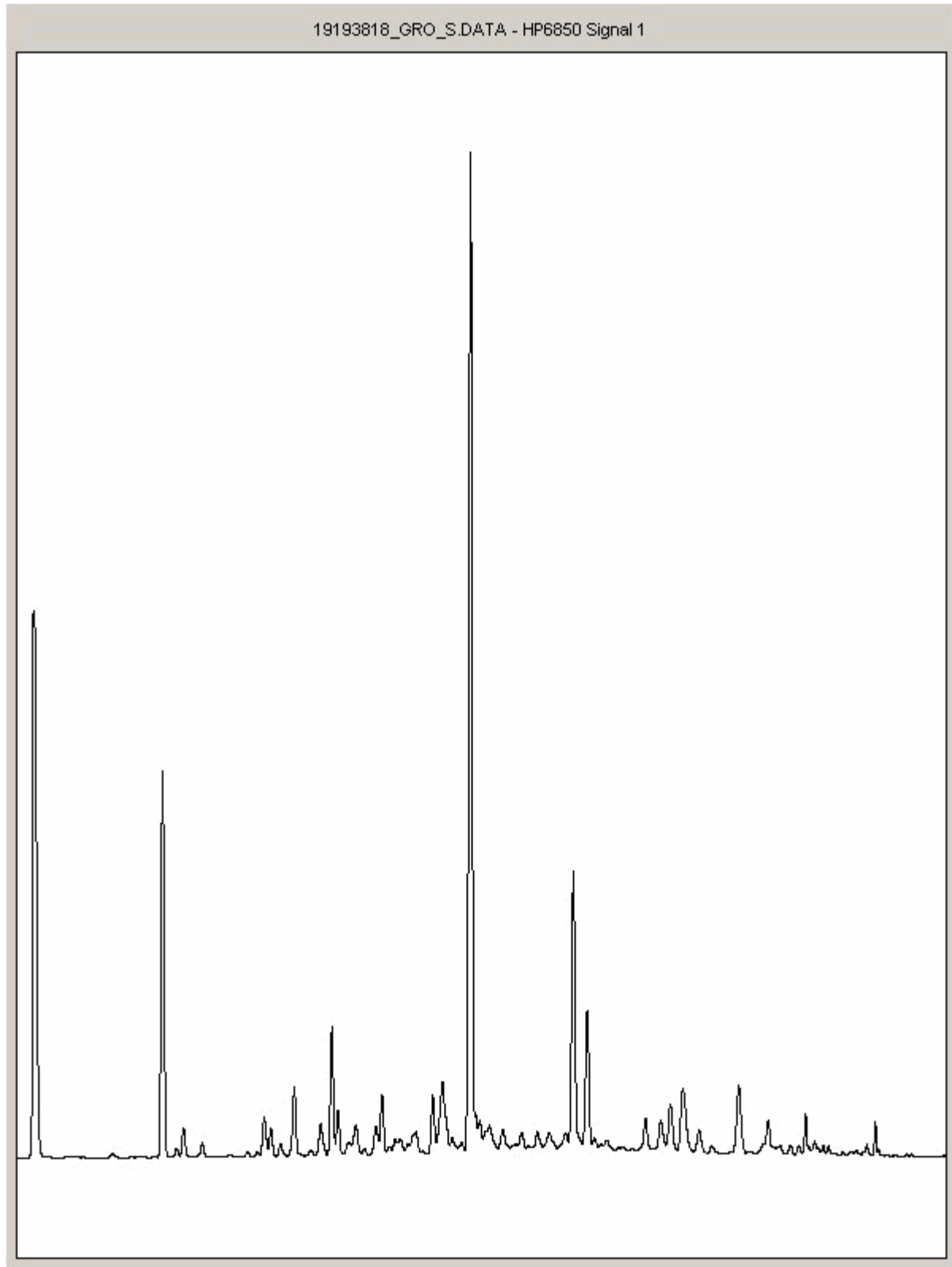
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19193818
Sample ID : BH232

Depth : 0.50 - 1.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

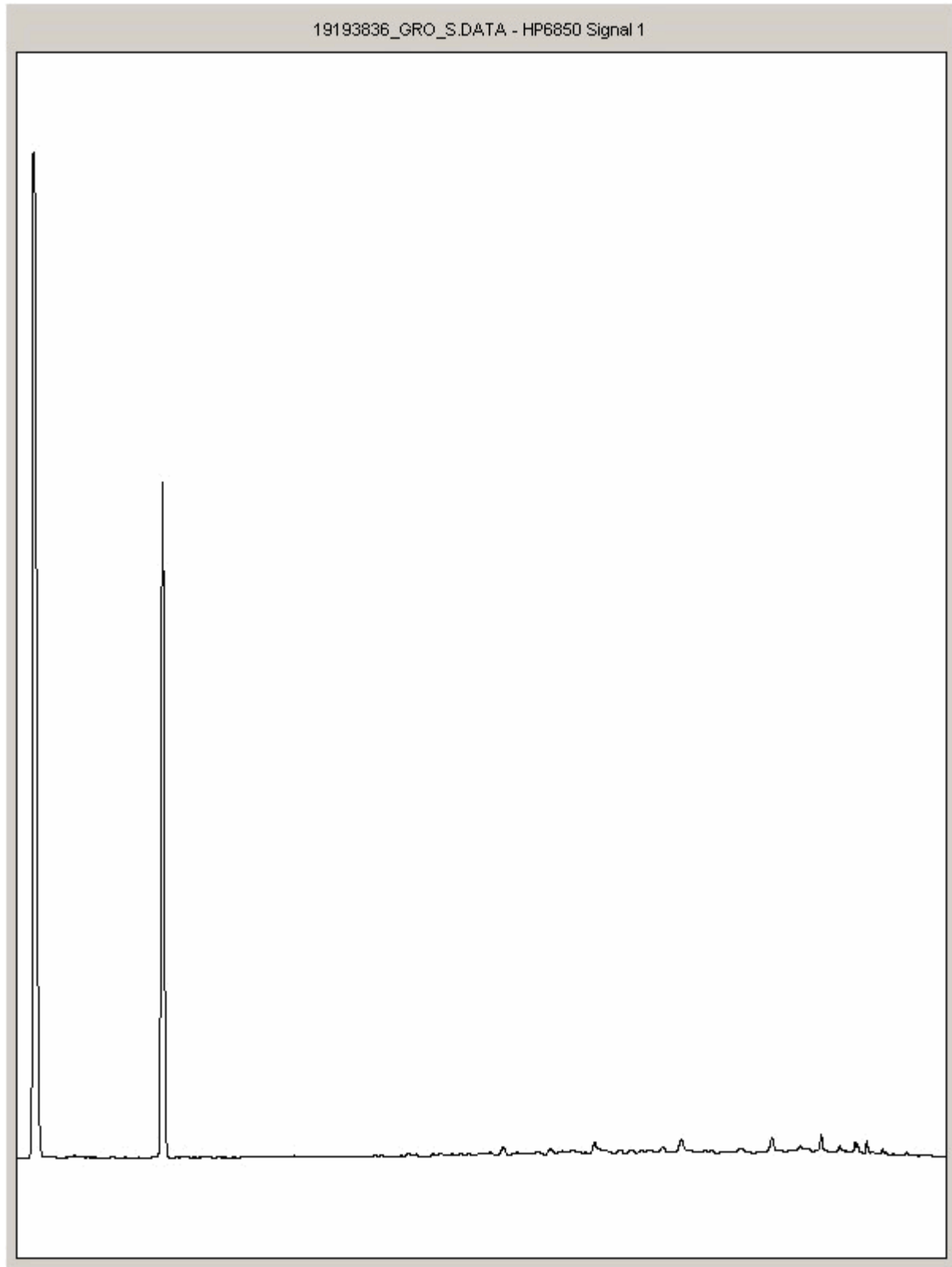
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19193836
Sample ID : BH234

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 190116-102
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

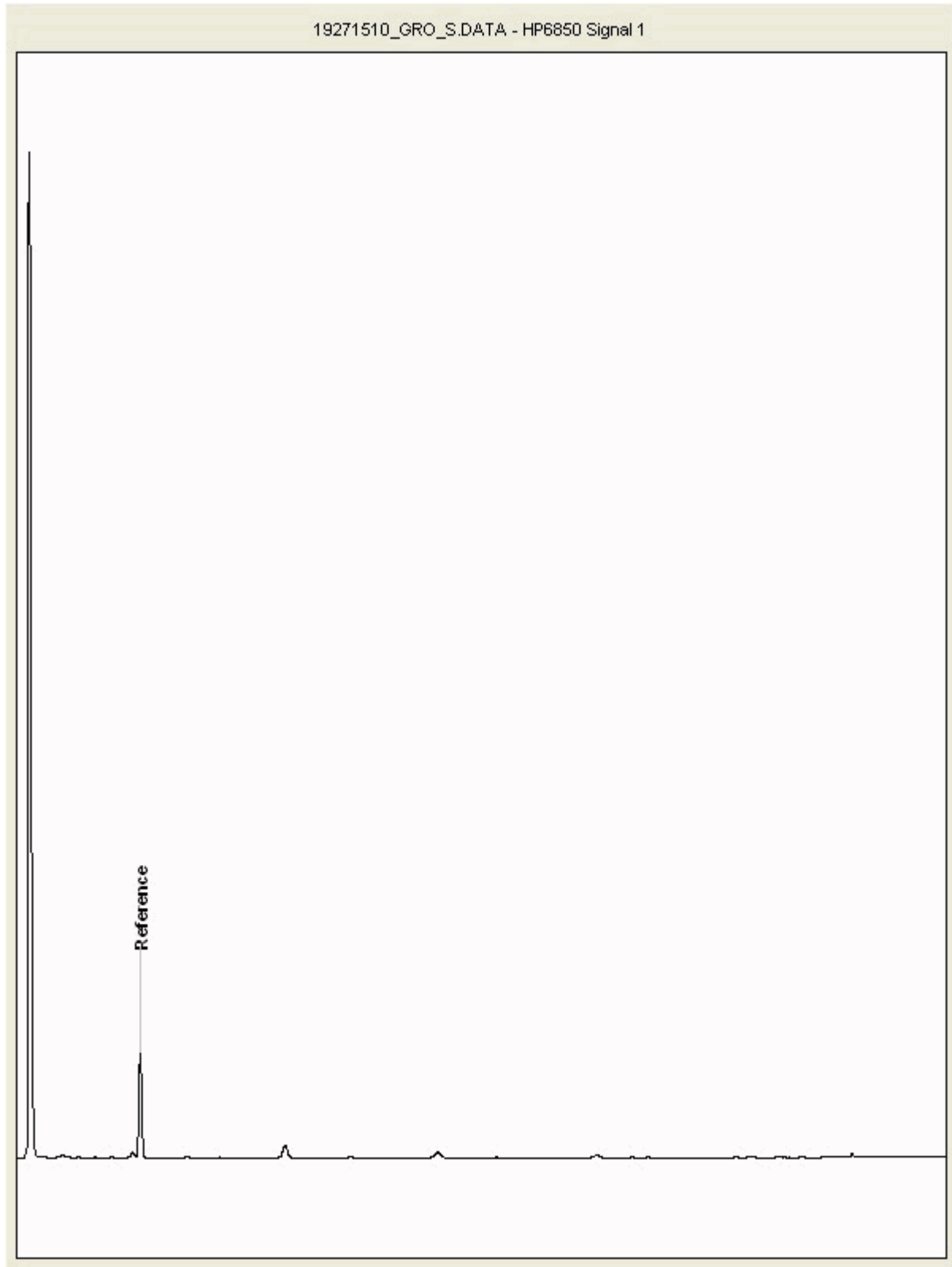
Report Number: 491397
Superseded Report: 490811

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19271510
Sample ID : BH232

Depth : 12.50 - 13.00





CERTIFICATE OF ANALYSIS

SDG:	190116-102	Client Reference:	602387	Report Number:	491397
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	490811

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

General

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestost Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	68
Your Reference:	602387	Samples Scheduled:	68

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19096850	BH218		0.00 - 0.50	07/01/2019
19096851	BH218		0.50 - 1.00	07/01/2019
19096861	BH218		10.00 - 11.00	07/01/2019
19096863	BH218		12.00 - 13.00	07/01/2019
19096864	BH218		13.00 - 14.00	07/01/2019
19096866	BH218		15.00 - 16.00	07/01/2019
19096867	BH218		16.00 - 17.00	07/01/2019
19096853	BH218		2.00 - 3.00	07/01/2019
19096854	BH218		3.00 - 4.00	07/01/2019
19096857	BH218		6.00 - 7.00	07/01/2019
19096860	BH218		9.00 - 10.00	07/01/2019
19096796	BH219		0.00 - 0.50	08/01/2019
19096795	BH219		0.50 - 1.00	08/01/2019
19096786	BH219		10.50 - 11.00	08/01/2019
19096800	BH219		13.00 - 14.00	08/01/2019
19096798	BH219		15.00 - 16.00	08/01/2019
19096797	BH219		16.00 - 17.00	08/01/2019
19096793	BH219		3.00 - 4.00	08/01/2019
19096791	BH219		5.00 - 6.00	08/01/2019
19096790	BH219		6.00 - 7.00	08/01/2019
19096789	BH219		7.00 - 8.00	08/01/2019
19096788	BH219		8.00 - 9.00	08/01/2019
19096787	BH219		9.00 - 10.00	08/01/2019
19096817	BH222		0.00 - 0.50	09/01/2019
19096815	BH222		1.00 - 2.00	09/01/2019
19096807	BH222		10.00 - 11.00	09/01/2019
19096803	BH222		13.00 - 15.00	09/01/2019
19096802	BH222		15.00 - 16.00	09/01/2019
19096814	BH222		2.00 - 3.00	09/01/2019
19096812	BH222		4.00 - 5.00	09/01/2019
19096810	BH222		6.00 - 7.00	09/01/2019
19096809	BH222		7.00 - 9.00	09/01/2019
19096808	BH222		9.00 - 10.00	09/01/2019
19096784	BH223		0.00 - 1.00	09/01/2019
19096776	BH223		10.00 - 11.00	09/01/2019
19096775	BH223		11.00 - 12.00	09/01/2019
19096774	BH223		12.00 - 13.00	09/01/2019
19096773	BH223		13.00 - 14.00	09/01/2019
19096771	BH223		15.00 - 17.00	09/01/2019
19096783	BH223		2.00 - 3.00	09/01/2019
19096782	BH223		3.00 - 4.00	09/01/2019
19096781	BH223		4.00 - 5.00	09/01/2019
19096780	BH223		5.00 - 6.00	09/01/2019
19096779	BH223		6.00 - 7.00	09/01/2019
19096778	BH223		7.00 - 8.00	09/01/2019
19096849	BH224		0.00 - 0.50	08/01/2019
19096847	BH224		1.00 - 2.00	08/01/2019
19096838	BH224		11.00 - 12.00	08/01/2019
19096836	BH224		13.00 - 15.00	08/01/2019
19096835	BH224		15.00 - 16.00	08/01/2019
19096834	BH224		16.00 - 17.00	08/01/2019
19096846	BH224		2.00 - 3.00	08/01/2019
19096845	BH224		3.00 - 4.00	08/01/2019
19096843	BH224		5.00 - 6.00	08/01/2019
19096842	BH224		6.00 - 7.00	08/01/2019
19096839	BH224		9.00 - 11.00	08/01/2019
19096833	BH235		0.00 - 0.50	10/01/2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19096832	BH235		0.50 - 1.00	10/01/2019
19096831	BH235		1.00 - 2.00	10/01/2019
19096822	BH235		12.50 - 13.00	10/01/2019
19096821	BH235		13.00 - 14.00	10/01/2019
19096819	BH235		15.00 - 16.00	10/01/2019
19096830	BH235		2.00 - 3.00	10/01/2019
19096829	BH235		3.00 - 4.00	10/01/2019
19096828	BH235		4.00 - 5.00	10/01/2019
19096826	BH235		7.00 - 8.00	10/01/2019
19096825	BH235		8.00 - 9.00	10/01/2019
19096824	BH235		9.00 - 10.00	10/01/2019

ISO5667-3 Water quality - Sampling - Part3 -
During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of $(5\pm3)^{\circ}\text{C}$.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of $(5\pm3)^{\circ}\text{C}$ for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19096784	19096783	19096782	19096781	19096780	19096779	19096778	19096776	19096775	19096774	19096773	19096771	19096787	19096786
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 68		0.00 - 1.00	60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 68		2.00 - 3.00	1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 68		3.00 - 4.00	60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 5		4.00 - 5.00	250g Amber Jar														X
CEN Readings	All	NDPs: 0 Tests: 68		5.00 - 6.00	1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 68		6.00 - 7.00	60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 68		7.00 - 8.00	250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 68		11.00 - 12.00	1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 68		12.00 - 13.00	60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 68		13.00 - 14.00	250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 68		15.00 - 17.00	1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 68		9.00 - 10.00	60g VOC (ALE215)		X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 68		10.50 - 11.00	250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 67			1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 68			60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 68			1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 68			60g VOC (ALE215)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 68			250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
19096826	BH235		7.00 - 8.00	60g VOC (ALE215) 250g Amber Jar
19096825	BH235		8.00 - 9.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096824	BH235		9.00 - 10.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096822	BH235		12.50 - 13.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096821	BH235		13.00 - 14.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096819	BH235		15.00 - 16.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096817	BH222		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096815	BH222		1.00 - 2.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096814	BH222		2.00 - 3.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096812	BH222		4.00 - 5.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096810	BH222		6.00 - 7.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096809	BH222		7.00 - 9.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096808	BH222		9.00 - 10.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19096807	BH222		10.00 - 11.00	1kg TUB 60g VOC (ALE215)

Parameter	Method	NDPs: 0	Tests: 68	19096807	19096808	19096809	19096810	19096812	19096814	19096815	19096817	19096819	19096821	19096822	19096824	19096825	19096826
ANC at pH4 and ANC at pH 6	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0	Tests: 68	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0	Tests: 68	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0	Tests: 68	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0	Tests: 68	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0	Tests: 68	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0	Tests: 68	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0	Tests: 68	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0	Tests: 67		X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0	Tests: 68	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0	Tests: 68		X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19096866	19096867
Customer Sample Reference	BH218	BH218
AGS Reference		
Depth (m)	15:00 - 16:00	16:00 - 17:00
Container	60g VOC (ALEZ15) 1kg TUB	60g VOC (ALEZ15) 250g Amber Jar

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 68	X	
Anions by Kone (w)	All	NDPs: 0 Tests: 68	X	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 68	X	
CEN Readings	All	NDPs: 0 Tests: 68	X	
Coronene	All	NDPs: 0 Tests: 68	X	
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 68	X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 68	X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 68	X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 68	X	
Fluoride	All	NDPs: 0 Tests: 68	X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 68	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 68	X	
Loss on Ignition in soils	All	NDPs: 0 Tests: 67	X	
Mercury Dissolved	All	NDPs: 0 Tests: 68	X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 68	X	
Mineral Oil	All	NDPs: 0 Tests: 68	X	
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 68	X	
PAH by GCMS	All	NDPs: 0 Tests: 68	X	



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19096866	19096867
Customer Sample Reference	BH218	BH218
AGS Reference		
Depth (m)	15.00 - 16.00	16.00 - 17.00
Container	60g VOC (ALEZ15) 1kg TUB	60g VOC (ALEZ15) 250g Amber Jar

PCBs by GCMS	All	NDPs: 0 Tests: 68	X	
pH	All	NDPs: 0 Tests: 68	X	
Phenols by HPLC (S)	All	NDPs: 0 Tests: 68	X	
Phenols by HPLC (W)	All	NDPs: 0 Tests: 68	X	
Sample description	All	NDPs: 0 Tests: 68	X	
Total Dissolved Solids	All	NDPs: 0 Tests: 68	X	
Total Organic Carbon	All	NDPs: 0 Tests: 68	X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 68	X	
VOC MS (S)	All	NDPs: 0 Tests: 68	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH218	BH218	BH218	BH218	BH218	BH218
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	10.00 - 11.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096850	19096851	19096861	19096863	19096864	19096866
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	12	15	11	11	10	8.2
Loss on ignition	<0.7 %	TM018	2.62	3.5	1.87	2.96	1.66	1.98
Mineral Oil Surrogate % recovery**	%	TM061	74.5	77.3	76.8	73.9	71.3	75
Mineral oil >C10-C40	<1 mg/kg	TM061	22.2	29.1	10.4	<1	10.6	29.9
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.33	1.71	1.62	0.642	0.749	0.63
pH	1 pH Units	TM133	8.53	8.08	8.8	8.55	8.77	8.71
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	13.5	8.9	9.14	9.92	10.1	9.75
Cadmium	<0.02 mg/kg	TM181	1.08	0.36	1.46	3.2	1.98	2.24
Chromium	<0.9 mg/kg	TM181	15.1	14.3	9.7	8.05	10.5	10.4
Copper	<1.4 mg/kg	TM181	87.9	22.7	22.2	24.2	24	25.1
Lead	<0.7 mg/kg	TM181	173	51.8	14.5	13.2	13.7	14.5
Mercury	<0.14 mg/kg	TM181	0.258	0.185	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	16.7	17.8	29.7	34	33.1	32.6
Selenium	<1 mg/kg	TM181	<1	<1	1.1	3.32	2.49	2.68
Zinc	<1.9 mg/kg	TM181	365	70.2	78.6	90.9	72.9	69.3
ANC @ pH 4	<0.03 mol/kg	TM182	0.357	0.398	1.1	1.11	1.49	1.3
ANC @ pH 6	<0.03 mol/kg	TM182	0.057	0.0581	0.202	0.189	0.278	0.172
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH218	BH218	BH218	BH218	BH218	BH219
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096867	19096853	19096854	19096857	19096860	19096796
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	9.1	21	23	11	8.9	7.8
Loss on ignition	<0.7 %	TM018	2.08	5.74	5.48	2.15	1.86	1.92
Mineral Oil Surrogate % recovery**	%	TM061	75.3	76.3	73.6	75.9	78.1	75.7
Mineral oil >C10-C40	<1 mg/kg	TM061	17.3	<1	14	11.3	<1	49.5
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.76	3.98	2.69	1.25	1.16	1.38
pH	1 pH Units	TM133	8.22	8.2	8.33	8.25	8.93	9.31
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	6.2
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	4.65
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	7.76
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	4.22
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	22.8
Arsenic	<0.6 mg/kg	TM181	10.6	10.1	12.3	5.3	4.5	95
Cadmium	<0.02 mg/kg	TM181	2.31	0.452	0.451	0.174	0.495	0.727
Chromium	<0.9 mg/kg	TM181	11.6	13.8	19.2	9.28	6.22	97.2
Copper	<1.4 mg/kg	TM181	31.3	28.5	44.8	10.1	6.58	109
Lead	<0.7 mg/kg	TM181	13.1	55.8	62.2	13.4	7.34	97.2
Mercury	<0.14 mg/kg	TM181	<0.14	0.257	0.298	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	35.7	19.1	20.9	15	15.8	28.4
Selenium	<1 mg/kg	TM181	2.67	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	170	66.2	73	30.3	33.8	157
ANC @ pH 4	<0.03 mol/kg	TM182	1.86	0.356	0.452	<0.03	0.343	0.7
ANC @ pH 6	<0.03 mol/kg	TM182	0.182	0.0972	0.0971	0.0611	0.138	0.133
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304						0.0104
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304						<0.001
Additional Asbestos Components (Using TM048)		TM304						None
Analysts Comments		TM304						N/C



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH219	BH219	BH219	BH219	BH219	BH219
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	10.50 - 11.00	13.00 - 14.00	15.00 - 16.00	16.00 - 17.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096795	19096786	19096800	19096798	19096797	19096793
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	11	16	8.8	8.3	5.7	9.3
Loss on ignition	<0.7 %	TM018	5.25	1.5	1.9	1.43	3.19	<0.7
Mineral Oil Surrogate % recovery**	%	TM061	73.1	74.5	72.3	73.6	73.9	74.1
Mineral oil >C10-C40	<1 mg/kg	TM061	35.9	<1	4.14	39.1	37.1	2670
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.45	0.376	0.782	0.813	0.648	0.495
pH	1 pH Units	TM133	8.76	9.14	8.47	8.4	8.34	10.6
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	3.64	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	6.05	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	3.51	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	48.4	7.2	9.03	23.5	8.8	2.44
Cadmium	<0.02 mg/kg	TM181	0.549	1.35	1.75	1.67	2.74	0.231
Chromium	<0.9 mg/kg	TM181	41.8	7.25	8.84	9.98	8.93	4.8
Copper	<1.4 mg/kg	TM181	70.9	15.8	22.5	28	29.5	4.24
Lead	<0.7 mg/kg	TM181	160	11	11.9	14	11.7	42.1
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	19.2	21.2	31.5	36.4	29	3.96
Selenium	<1 mg/kg	TM181	<1	<1	2.07	2.67	2.19	<1
Zinc	<1.9 mg/kg	TM181	140	56.3	65.1	74.4	192	14.8
ANC @ pH 4	<0.03 mol/kg	TM182	0.724	0.16	1.44	1.45	1.66	0.956
ANC @ pH 6	<0.03 mol/kg	TM182	0.201	0.0833	0.181	0.154	0.201	0.176
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304	0.0016	#				
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304	0.001	#				
Additional Asbestos Components (Using TM048)		TM304	Amosite (trace)	#				
Analysts Comments		TM304	Loose fibres in soil					



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH219	BH219	BH219	BH219	BH219	BH222
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	09/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096791	19096790	19096789	19096788	19096787	19096817
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	13	16	13	9.8	11	12
Loss on ignition	<0.7 %	TM018	3.09		2.31	1.86	0.922	3.82
Mineral Oil Surrogate % recovery**	%	TM061	78.5	72.4	79.9	89.5	77.2	73.9
Mineral oil >C10-C40	<1 mg/kg	TM061	32.7	5.6	10.3	<1	<1	120
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.1	1.16	0.75	0.349	0.347	1.17
pH	1 pH Units	TM133	8.24	8.66	8.4	8.98	9.02	7.86
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	6.54	10.6	8.09	3.65	6.84	16.2
Cadmium	<0.02 mg/kg	TM181	0.319	0.521	0.519	0.585	0.894	2.43
Chromium	<0.9 mg/kg	TM181	7.61	14.1	14.3	7.51	7.72	12.4
Copper	<1.4 mg/kg	TM181	12.2	18	14.2	9.05	21.2	53.8
Lead	<0.7 mg/kg	TM181	50	52.5	31.1	7.93	20.2	110
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	0.213
Nickel	<0.2 mg/kg	TM181	11.8	22.6	16.9	13.3	14.2	16.5
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	41.4	69.5	51.5	35.8	71.4	401
ANC @ pH 4	<0.03 mol/kg	TM182	0.144	0.435	0.552	0.457	0.42	0.734
ANC @ pH 6	<0.03 mol/kg	TM182	0.0564	0.0673	0.15	0.171	0.0906	0.127
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH222	BH222	BH222	BH222	BH222	BH222
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	10.00 - 11.00	13.00 - 15.00	15.00 - 16.00	2.00 - 3.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096815	19096807	19096803	19096802	19096814	19096812
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	17	12	5.2	5.3	22	15
Loss on ignition	<0.7 %	TM018	4.06	2.3	2.27	1.64	5.92	2.46
Mineral Oil Surrogate % recovery**	%	TM061	79.4	76.5	75.3	80.1	74.8	80.8
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	7.35	2.53	<1	14.8
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	0.0118
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.11	0.295	0.684	0.766	1.74	1.31
pH	1 pH Units	TM133	7.77	9.22	8.69	8.53	7.63	7.93
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11.3	5.61	10.5	8.7	13.9	10
Cadmium	<0.02 mg/kg	TM181	0.674	1.09	1.96	1.61	0.5	0.352
Chromium	<0.9 mg/kg	TM181	13.8	6.57	10.2	10	15.6	13.8
Copper	<1.4 mg/kg	TM181	22.3	11.3	26.9	24	22.1	23.8
Lead	<0.7 mg/kg	TM181	40.8	8.83	15	10.7	39	50.1
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	18.8	17.7	30.6	32	19.8	18
Selenium	<1 mg/kg	TM181	<1	1.01	2.69	2.7	<1	<1
Zinc	<1.9 mg/kg	TM181	65.1	55.6	81.2	63.2	72.7	58
ANC @ pH 4	<0.03 mol/kg	TM182	0.32	0.365	1.38	1.65	0.589	0.331
ANC @ pH 6	<0.03 mol/kg	TM182	0.047	0.144	0.255	0.344	0.169	0.0679
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	29.1
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH222	BH222	BH222	BH223	BH223	BH223
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	7.00 - 9.00	9.00 - 10.00	0.00 - 1.00	10.00 - 11.00	11.00 - 12.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096810	19096809	19096808	19096784	19096776	19096775
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	11	13	10	3.4	14	11
Loss on ignition	<0.7 %	TM018	0.929	1.08	<0.7	6.31	1.36	1.5
Mineral Oil Surrogate % recovery**	%	TM061	79.8	76.8	80	81.1	74	72
Mineral oil >C10-C40	<1 mg/kg	TM061	2.97	<1	<1	27.4	<1	<1
Phenol	<0.01 mg/kg	TM062 (S)	0.0224	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.25	0.382	0.297	0.485	0.329	0.462
pH	1 pH Units	TM133	8.27	9.04	9.44	11.9	9.05	9.02
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	5.34	8.1	6.05	9.05	7.09	6.46
Cadmium	<0.02 mg/kg	TM181	0.346	1.11	0.72	0.539	1.49	1.23
Chromium	<0.9 mg/kg	TM181	6.63	6.96	6.73	7.69	7.1	7.78
Copper	<1.4 mg/kg	TM181	7.33	13.9	8.27	12.1	19.9	14.5
Lead	<0.7 mg/kg	TM181	9.18	24.7	8.46	17.7	7.79	12
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	11.7	15.4	15.2	14.3	21.3	19
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	1.07
Zinc	<1.9 mg/kg	TM181	32.2	62.8	52.2	45.4	63.2	62.6
ANC @ pH 4	<0.03 mol/kg	TM182	0.48	0.324	0.353	0.981	0.241	0.405
ANC @ pH 6	<0.03 mol/kg	TM182	0.124	0.109	0.0921	0.265	0.106	0.0747
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304				<0.001	#	
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304				<0.001	#	
Additional Asbestos Components (Using TM048)		TM304				None	#	
Analysts Comments		TM304				N/C		



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH223	BH223	BH223	BH223	BH223	BH223
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	12.00 - 13.00	13.00 - 14.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096774	19096773	19096771	19096783	19096782	19096781
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	12	5.9	3.2	4.9	19	19
Loss on ignition	<0.7 %	TM018	1.75	1.55	6.37	4.7	9.68	7.11
Mineral Oil Surrogate % recovery**	%	TM061	75.5	82.4	76.9	73.4	76.9	67.9
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	10.1	5.4	37.6	308	26.6
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0615	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0615	0.0246
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	0.0841	0.185	0.0246
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0615	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	0.0841	0.369	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.39	0.596	0.455	1.08	3.35	3.06
pH	1 pH Units	TM133	8.73	8.6	9.08	11.9	8.52	8.53
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	9.07	8.27	6.86	8.01	13.7	10.1
Cadmium	<0.02 mg/kg	TM181	1.95	1.5	1.18	0.415	0.73	0.644
Chromium	<0.9 mg/kg	TM181	9.32	10.1	8.8	9.88	19.8	26.7
Copper	<1.4 mg/kg	TM181	25.2	23.1	17.2	14.6	63.4	36.8
Lead	<0.7 mg/kg	TM181	13.7	10.5	9.91	94.4	112	58.9
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	0.675	0.35
Nickel	<0.2 mg/kg	TM181	31.6	29.1	22.5	15.7	23	25.7
Selenium	<1 mg/kg	TM181	2.54	2.03	1.93	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	91.5	68.7	48.1	59.4	84.5	118
ANC @ pH 4	<0.03 mol/kg	TM182	1.39	1.28	1.09	0.694	0.424	0.429
ANC @ pH 6	<0.03 mol/kg	TM182	0.319	0.189	0.187	0.192	0.0557	0.173
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	42.7	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH223	BH223	BH223	BH224	BH224	BH224
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	0.00 - 0.50	1.00 - 2.00	11.00 - 12.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	08/01/2019	08/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096780	19096779	19096778	19096849	19096847	19096838
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	12	8.1	7.7	3.7	10	11
Loss on ignition	<0.7 %	TM018	2.77	<0.7	1.13	1.65	4.44	0.998
Mineral Oil Surrogate % recovery**	%	TM061	80.3	82.5	80.4	73.9	72.9	82.4
Mineral oil >C10-C40	<1 mg/kg	TM061	40.1	3.06	10.1	37.3	51.4	<1
Phenol	<0.01 mg/kg	TM062 (S)	0.0113	<0.01	0.0108	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	0.0226	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.32	0.363	0.951	0.726	1.37	0.394
pH	1 pH Units	TM133	8.25	8.73	8.76	11.4	11.2	8.96
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	9.35	5.88	4.24	9	29.5	7.41
Cadmium	<0.02 mg/kg	TM181	0.502	0.381	0.453	1.16	3.76	1.48
Chromium	<0.9 mg/kg	TM181	10.7	5.96	6.57	8.78	15.9	6.56
Copper	<1.4 mg/kg	TM181	15.1	6.82	7.76	32	352	11.5
Lead	<0.7 mg/kg	TM181	30.3	6.57	9.83	45.3	534	6.54
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	16	11.3	10.6	14.9	18.5	17.2
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	48.4	30.8	36.4	109	889	47.4
ANC @ pH 4	<0.03 mol/kg	TM182	0.202	0.985	0.348	0.65	0.552	0.415
ANC @ pH 6	<0.03 mol/kg	TM182	0.0633	0.175	0.13	0.215	0.122	0.178
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	19	13.6	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	242	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH224	BH224	BH224	BH224	BH224	BH224
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	13.00 - 15.00	15.00 - 16.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096836	19096835	19096834	19096846	19096845	19096843
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	5.8	6.2	9.6	13	10	12
Loss on ignition	<0.7 %	TM018	1.69	9.46	2.49	3.05	4.02	2.37
Mineral Oil Surrogate % recovery**	%	TM061	72.3	76.5	73.1	75	70.3	67.2
Mineral oil >C10-C40	<1 mg/kg	TM061	12.4	35.6	39.9	659	528	141
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	0.092	<0.05	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	0.253	0.244	0.0452
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.05	0.133	0.0226
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	0.276	0.555	0.226
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	0.621	0.932	0.294
Organic Carbon, Total	<0.2 %	TM132	<0.2	0.541	0.832	0.761	0.567	1.82
pH	1 pH Units	TM133	8.23	8.42	8.35	8.93	8.74	8.32
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.53	9.26	10.9	15.3	9.45	12.1
Cadmium	<0.02 mg/kg	TM181	1.11	1.63	1.87	0.88	0.467	0.472
Chromium	<0.9 mg/kg	TM181	8.08	9.28	11.9	15.3	15.3	13.3
Copper	<1.4 mg/kg	TM181	18.5	26.5	28.8	51.9	13.1	27.6
Lead	<0.7 mg/kg	TM181	12.5	16	15.6	130	17.8	59.3
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	0.166
Nickel	<0.2 mg/kg	TM181	25.1	31.6	39.3	12.4	10.3	15.3
Selenium	<1 mg/kg	TM181	2.3	3.28	2.76	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	83.3	66	84	177	45.1	53.8
ANC @ pH 4	<0.03 mol/kg	TM182	2.08	1.22	1.81	0.233	0.719	0.213
ANC @ pH 6	<0.03 mol/kg	TM182	0.263	0.167	0.155	0.0693	0.143	0.0483
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304				<0.001	<0.001	
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304				<0.001	<0.001	
Additional Asbestos Components (Using TM048)		TM304				None	None	
Analysts Comments		TM304				N/A	N/A	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH224	BH224	BH235	BH235	BH235	BH235
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	12.50 - 13.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096842	19096839	19096833	19096832	19096831	19096822
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	9.4	15	15	20	14	13
Loss on ignition	<0.7 %	TM018	1.63	4.73	5.07	5.86	3.84	8.84
Mineral Oil Surrogate % recovery**	%	TM061	74.5	78.8	68.6	70.5	66.7	81.8
Mineral oil >C10-C40	<1 mg/kg	TM061	79.9	<1	27.9	19.2	<1	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	0.022	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	0.022	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	0.011	<0.01	<0.01	<0.01	0.0116	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	0.209	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	0.264	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.318	0.42	2.41	3.72	1.44	0.527
pH	1 pH Units	TM133	8.9	9.06	7.84	7.8	8	8.64
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	8.04	5.35	22.4	16.8	12.8	9.27
Cadmium	<0.02 mg/kg	TM181	0.391	1.41	2.74	1.93	0.687	1.77
Chromium	<0.9 mg/kg	TM181	8.68	6.21	13	15.7	12.9	9.95
Copper	<1.4 mg/kg	TM181	12.4	9.52	184	78.5	29.7	20.2
Lead	<0.7 mg/kg	TM181	34.1	5.18	346	194	65.9	34.8
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	0.37	0.534	0.269	<0.14
Nickel	<0.2 mg/kg	TM181	12.4	15.8	19.3	23.3	18.3	29.3
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	2.63
Zinc	<1.9 mg/kg	TM181	39.5	46.5	827	1200	90.3	101
ANC @ pH 4	<0.03 mol/kg	TM182	0.473	0.431	0.291	0.694	0.212	1.25
ANC @ pH 6	<0.03 mol/kg	TM182	0.115	0.101	0.0571	0.0667	0.0422	0.257
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	51.3	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH235	BH235	BH235	BH235	BH235	BH235
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096821	19096819	19096830	19096829	19096828	19096826
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	9.4	8.5	16	16	19	9.1
Loss on ignition	<0.7 %	TM018	2.88	4.09	3.29	11.8	2.46	0.797
Mineral Oil Surrogate % recovery**	%	TM061	77.7	73.7	79.8	80.9	75.7	79.9
Mineral oil >C10-C40	<1 mg/kg	TM061	24.9	12.7	<1	21.1	<1	4.08
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.598	2.86	2.44	1.07	0.757	0.341
pH	1 pH Units	TM133	8.64	8.7	7.94	8.37	8.04	8.72
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	10.7	13.5	10.3	9.6	9.89	7.59
Cadmium	<0.02 mg/kg	TM181	1.99	1.56	0.559	0.697	0.522	0.735
Chromium	<0.9 mg/kg	TM181	10.6	9.55	12.6	11.9	11.1	7.55
Copper	<1.4 mg/kg	TM181	26.3	30.8	20.8	16.7	19.9	10.1
Lead	<0.7 mg/kg	TM181	14.4	156	35.4	27.5	46.8	11
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	0.143	<0.14	0.202	<0.14
Nickel	<0.2 mg/kg	TM181	33.8	35.7	16.7	16.2	15.7	17.2
Selenium	<1 mg/kg	TM181	2.77	2.18	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	78.1	68.7	66.9	53.5	59.6	54.1
ANC @ pH 4	<0.03 mol/kg	TM182	1.55	1.38	0.254	0.207	0.181	0.414
ANC @ pH 6	<0.03 mol/kg	TM182	0.292	0.297	0.0528	0.0374	0.0423	0.108
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH235	BH235			
#	ISO17025 accredited.						
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted - refer to subcontractor report for accreditation status.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.						
1-3*§@	Sample deviation (see appendix)						
		Depth (m)	8.00 - 9.00	9.00 - 10.00			
		Sample Type	Soil/Solid (S)	Soil/Solid (S)			
		Date Sampled	10/01/2019	10/01/2019			
		Date Received	11/01/2019	11/01/2019			
		SDG Ref	190111-125	190111-125			
		Lab Sample No.(s)	19096825	19096824			
		AGS Reference					
Component	LOD/Units	Method					
Moisture Content Ratio (% of as received sample)	%	PM024	12	13			
Loss on ignition	<0.7 %	TM018	1.86	<0.7			
Mineral Oil Surrogate % recovery**	%	TM061	80.2	80.3			
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	4.57			
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01			
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01			
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015			
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01			
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015			
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06			
Organic Carbon, Total	<0.2 %	TM132	0.553	0.331			
pH	1 pH Units	TM133	8.5	8.71			
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6			
PCB congener 28	<3 µg/kg	TM168	<3	<3			
PCB congener 52	<3 µg/kg	TM168	<3	<3			
PCB congener 101	<3 µg/kg	TM168	<3	<3			
PCB congener 118	<3 µg/kg	TM168	<3	<3			
PCB congener 138	<3 µg/kg	TM168	<3	<3			
PCB congener 153	<3 µg/kg	TM168	<3	<3			
PCB congener 180	<3 µg/kg	TM168	<3	<3			
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21			
Arsenic	<0.6 mg/kg	TM181	41.4	23.3			
Cadmium	<0.02 mg/kg	TM181	0.575	0.549			
Chromium	<0.9 mg/kg	TM181	7.08	6.64			
Copper	<1.4 mg/kg	TM181	14.8	15			
Lead	<0.7 mg/kg	TM181	24.1	13.1			
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14			
Nickel	<0.2 mg/kg	TM181	16	14.6			
Selenium	<1 mg/kg	TM181	<1	<1			
Zinc	<1.9 mg/kg	TM181	78.5	62.5			
ANC @ pH 4	<0.03 mol/kg	TM182	0.649	0.45			
ANC @ pH 6	<0.03 mol/kg	TM182	0.129	0.17			
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410	<10	<10			
Coronene	<200 µg/kg	TM410	<200	<200			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH218	BH218	BH218	BH218	BH218	BH218
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	10.00 - 11.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096850	19096851	19096861	19096863	19096864	19096866
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	91.7	96	100	94.7	91.8	96.9
Acenaphthene-d10 % recovery**	%	TM218	93.3	93.6	94	89.8	89.7	101
Phenanthrene-d10 % recovery**	%	TM218	94.5	93.3	84.8	82.8	85.8	103
Chrysene-d12 % recovery**	%	TM218	87.9	89.9	79.5	71.5	78.1	95.4
Perylene-d12 % recovery**	%	TM218	91.8	93.7	85.9	70	74.9	82
Naphthalene	<9 µg/kg	TM218	25.7	42.5	<9	<9	<9	11.1
Acenaphthylene	<12 µg/kg	TM218	21.4	17.7	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	9.73	20.1	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	28.7	55.2	<10	<10	<10	<10
Phenanthrene	<15 µg/kg	TM218	179	214	<15	<15	<15	36.2
Anthracene	<16 µg/kg	TM218	104	154	<16	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218	418	446	<17	<17	<17	<17
Pyrene	<15 µg/kg	TM218	313	318	<15	<15	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218	258	272	<14	<14	<14	<14
Chrysene	<10 µg/kg	TM218	206	199	<10	<10	<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	241	188	<15	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	95.1	72.2	<14	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	205	187	<15	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	95.6	75.9	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	36.5	29.8	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	115	89.8	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2350	2380	<118	<118	<118	<118



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH218	BH218	BH218	BH218	BH218	BH219	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019	08/01/2019	
diss.filt	Dissolved / filtered sample.		11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	
tot.unfilt	Total / unfiltered sample.		190111-125	190111-125	190111-125	190111-125	190111-125	190111-125	
*	Subcontracted - refer to subcontractor report for accreditation status.		19096867	19096853	19096854	19096857	19096860	19096796	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	89.8	99.4	96.7	91.5	102	93.5
Acenaphthene-d10 % recovery**	%	TM218	90.5	103	94.2	98.2	105	93.9	
Phenanthrene-d10 % recovery**	%	TM218	88.6	111	95.5	106	112	93.7	
Chrysene-d12 % recovery**	%	TM218	86.4	114	94.1	120	113	99.1	
Perylene-d12 % recovery**	%	TM218	73.4	112	98.1	118	107	98.1	
Naphthalene	<9 µg/kg	TM218	12	36.1	71.6	<9	<9	52.5	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	20.1	<12	<12	118	
Acenaphthene	<8 µg/kg	TM218	<8	18.2	25.8	<8	<8	51	
Fluorene	<10 µg/kg	TM218	<10	36.2	68.5	<10	<10	52.1	
Phenanthrene	<15 µg/kg	TM218	38.8	163	265	26.2	<15	1280	
Anthracene	<16 µg/kg	TM218	39.6	97.5	129	<16	<16	394	
Fluoranthene	<17 µg/kg	TM218	<17	250	358	31.3	<17	3440	
Pyrene	<15 µg/kg	TM218	<15	199	264	29.6	<15	3110	
Benz(a)anthracene	<14 µg/kg	TM218	<14	146	201	25.1	<14	1770	
Chrysene	<10 µg/kg	TM218	12.6	103	155	23.9	<10	1450	
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	85.1	171	<15	<15	1450	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	41.2	66.2	<14	<14	727	
Benzo(a)pyrene	<15 µg/kg	TM218	<15	103	152	<15	<15	1590	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	54.2	64.8	<18	<18	698	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	243	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	45.6	79.3	<24	<24	944	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	1380	2090	136	<118	17400	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH219	BH219	BH219	BH219	BH219	BH219	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 1.00	10.50 - 11.00	13.00 - 14.00	15.00 - 16.00	16.00 - 17.00	3.00 - 4.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	
diss.filt	Dissolved / filtered sample.		11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	
tot.unfilt	Total / unfiltered sample.		190111-125	190111-125	190111-125	190111-125	190111-125	190111-125	
*	Subcontracted - refer to subcontractor report for accreditation status.		19096795	19096786	19096800	19096798	19096797	19096793	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	90.6	95.5	86.4	94.7	93.7	85.8
Acenaphthene-d10 % recovery**	%	TM218	89.2	94.4	90.3	92.8	92.3	95.1	
Phenanthrene-d10 % recovery**	%	TM218	90	90.1	86	84.5	84.8	95.2	
Chrysene-d12 % recovery**	%	TM218	92.5	82.7	79.3	76.1	80.1	91.2	
Perylene-d12 % recovery**	%	TM218	90.3	82.4	77.5	70.6	73	96.6	
Naphthalene	<9 µg/kg	TM218	65.4	<9	<9	14.5	11.5	205	
Acenaphthylene	<12 µg/kg	TM218	156	<12	<12	<12	<12	27.7	
Acenaphthene	<8 µg/kg	TM218	111	<8	<8	11.4	<8	143	
Fluorene	<10 µg/kg	TM218	158	<10	<10	18.2	10.9	233	
Phenanthrene	<15 µg/kg	TM218	2390	<15	18.1	46.2	35.8	421	
Anthracene	<16 µg/kg	TM218	584	<16	<16	43.2	<16	139	
Fluoranthene	<17 µg/kg	TM218	4750	<17	<17	<17	<17	98.5	
Pyrene	<15 µg/kg	TM218	4240	<15	<15	<15	<15	217	
Benz(a)anthracene	<14 µg/kg	TM218	2330	<14	<14	<14	<14	95.8	
Chrysene	<10 µg/kg	TM218	2030	<10	<10	<10	<10	98.9	
Benzo(b)fluoranthene	<15 µg/kg	TM218	2060	<15	<15	<15	<15	22.1	
Benzo(k)fluoranthene	<14 µg/kg	TM218	866	<14	<14	<14	<14	15.8	
Benzo(a)pyrene	<15 µg/kg	TM218	2040	<15	<15	<15	<15	19.1	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	1040	<18	<18	<18	<18	<18	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	331	<23	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	1240	<24	<24	<24	<24	<24	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	24400	<118	<118	134	<118	1740	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH219	BH219	BH219	BH219	BH219	BH222	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	09/01/2019
diss.filt	Dissolved / filtered sample.		11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
tot.unfilt	Total / unfiltered sample.		190111-125	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
*	Subcontracted - refer to subcontractor report for accreditation status.		19096791	19096790	19096789	19096788	19096787	19096817	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	96.3	91.6	96.7	109	97.5	93.6
Acenaphthene-d10 % recovery**	%	TM218	96.6	91.1	96.7	107	97.8	90	
Phenanthrene-d10 % recovery**	%	TM218	95.4	92.1	93.9	103	94.7	93.3	
Chrysene-d12 % recovery**	%	TM218	96.3	86.4	91.7	97.9	92.5	99.2	
Perylene-d12 % recovery**	%	TM218	99.1	91.8	92.5	100	94.1	94.1	
Naphthalene	<9 µg/kg	TM218	<9	<9	<9	<9	<9	81.5	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	70.2	
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	<8	69.2	
Fluorene	<10 µg/kg	TM218	12.7	<10	<10	<10	<10	199	
Phenanthrene	<15 µg/kg	TM218	50.3	38.9	40	<15	<15	733	
Anthracene	<16 µg/kg	TM218	<16	<16	<16	<16	<16	316	
Fluoranthene	<17 µg/kg	TM218	56	40.1	36.7	<17	<17	791	
Pyrene	<15 µg/kg	TM218	40.1	27.4	24.4	<15	<15	604	
Benz(a)anthracene	<14 µg/kg	TM218	25.6	18.6	<14	<14	<14	351	
Chrysene	<10 µg/kg	TM218	23.2	<10	12.1	<10	<10	309	
Benzo(b)fluoranthene	<15 µg/kg	TM218	18.8	20	<15	<15	<15	303	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	<14	119	
Benzo(a)pyrene	<15 µg/kg	TM218	18.4	<15	<15	<15	<15	299	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	<18	203	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<115	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	<24	169	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	245	145	<118	<118	<118	4620	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH222	BH222	BH222	BH222	BH222	BH222	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00 - 2.00	10.00 - 11.00	13.00 - 15.00	15.00 - 16.00	2.00 - 3.00	4.00 - 5.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	
diss.filt	Dissolved / filtered sample.		11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	
tot.unfilt	Total / unfiltered sample.		190111-125	190111-125	190111-125	190111-125	190111-125	190111-125	
*	Subcontracted - refer to subcontractor report for accreditation status.		19096815	19096807	19096803	19096802	19096814	19096812	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	88.6	95.5	95.8	87.3	95.4	89.9
Acenaphthene-d10 % recovery**	%	TM218	90.9	94.4	93.2	92.5	94.5	93.8	
Phenanthrene-d10 % recovery**	%	TM218	90	90.1	92.4	87.7	91.1	96.9	
Chrysene-d12 % recovery**	%	TM218	84.6	83.4	80.9	78.7	87	94.8	
Perylene-d12 % recovery**	%	TM218	91.8	83.2	72.1	72.1	91.4	102	
Naphthalene	<9 µg/kg	TM218	<9	31.6	12.6	14.6	<9	438	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	16.3	<12	<12	33.7	
Acenaphthene	<8 µg/kg	TM218	<8	44.7	587	<8	<8	4400	
Fluorene	<10 µg/kg	TM218	<10	42.8	444	13.4	<10	3390	
Phenanthrene	<15 µg/kg	TM218	36.6	61.7	700	43.9	36.6	10300	
Anthracene	<16 µg/kg	TM218	34.6	19.4	233	<16	21.6	2060	
Fluoranthene	<17 µg/kg	TM218	106	40.5	377	<17	101	4260	
Pyrene	<15 µg/kg	TM218	81.5	24.1	241	<15	76.9	2720	
Benz(a)anthracene	<14 µg/kg	TM218	55.9	<14	35.8	<14	63	504	
Chrysene	<10 µg/kg	TM218	47.5	<10	33.7	<10	44.4	357	
Benzo(b)fluoranthene	<15 µg/kg	TM218	41.4	<15	16.6	<15	49.3	236	
Benzo(k)fluoranthene	<14 µg/kg	TM218	26	<14	<14	<14	22.9	97.5	
Benzo(a)pyrene	<15 µg/kg	TM218	49.1	<15	<15	<15	48.8	175	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	<18	35.5	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	<24	60.2	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	478	265	2700	<118	464	29100	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH222	BH222	BH222	BH223	BH223	BH223
#	ISO17025 accredited.	Depth (m)	6.00 - 7.00	7.00 - 9.00	9.00 - 10.00	0.00 - 1.00	10.00 - 11.00	11.00 - 12.00
M	mCERTS accredited.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.	Date Sampled	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019
diss.filt	Dissolved / filtered sample.	Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
tot.unfilt	Total / unfiltered sample.	SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
*	Subcontracted - refer to subcontractor report for accreditation status.	Lab Sample No.(s)	19096810	19096809	19096808	19096784	19096776	19096775
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	97.6	98.3	90	99.3	99.5	89
Acenaphthene-d10 % recovery**	%	TM218	92.6	97.7	91.2	95.2	101	92.2
Phenanthrene-d10 % recovery**	%	TM218	95.2	94.1	87.2	98.4	107	95.7
Chrysene-d12 % recovery**	%	TM218	95.1	88.8	83.3	94.3	104	101
Perylene-d12 % recovery**	%	TM218	93.9	89.1	87.5	93	95.6	98
Naphthalene	<9 µg/kg	TM218	70.5	16.4	28.5	212	<9	<9
Acenaphthylene	<12 µg/kg	TM218	13.9	<12	<12	41.4	<12	<12
Acenaphthene	<8 µg/kg	TM218	457	48.3	34.6	971	<8	22.6
Fluorene	<10 µg/kg	TM218	263	35.6	23.3	840	<10	18.4
Phenanthrene	<15 µg/kg	TM218	840	113	35.8	2400	<15	55.4
Anthracene	<16 µg/kg	TM218	226	23.4	<16	643	<16	<16
Fluoranthene	<17 µg/kg	TM218	758	70.5	<17	1000	<17	24.2
Pyrene	<15 µg/kg	TM218	480	59.3	<15	653	<15	22.1
Benz(a)anthracene	<14 µg/kg	TM218	98.5	<14	<14	121	<14	<14
Chrysene	<10 µg/kg	TM218	82.5	<10	<10	98.6	<10	12.1
Benzo(b)fluoranthene	<15 µg/kg	TM218	33.4	<15	<15	54.7	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	22.6	<14	<14	26.7	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	38.2	<15	<15	45.8	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	3380	366	122	7110	<118	155



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH223	BH223	BH223	BH223	BH223	BH223	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	12.00 - 13.00	13.00 - 14.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	
diss.filt	Dissolved / filtered sample.		11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	
tot.unfilt	Total / unfiltered sample.		190111-125	190111-125	190111-125	190111-125	190111-125	190111-125	
*	Subcontracted - refer to subcontractor report for accreditation status.		19096774	19096773	19096771	19096783	19096782	19096781	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Naphthalene-d8 % recovery**	%		TM218	94.1	102	96.9	91	86	86.2
Acenaphthene-d10 % recovery**	%	TM218	92	101	96.2	82.6	83.6	86.8	
Phenanthrene-d10 % recovery**	%	TM218	88.9	91.9	92.7	82.6	88.5	91.3	
Chrysene-d12 % recovery**	%	TM218	83.6	79.7	82.8	74.3	87.1	86.3	
Perylene-d12 % recovery**	%	TM218	82.4	70.7	76.5	70	85.1	85.9	
Naphthalene	<9 µg/kg	TM218	<9	11.2	13.9	69.7	191	33.2	
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	166	23.4	
Acenaphthene	<8 µg/kg	TM218	<8	11.3	<8	214	4910	840	
Fluorene	<10 µg/kg	TM218	<10	21.8	12.5	171	4020	660	
Phenanthrene	<15 µg/kg	TM218	<15	67.4	42.2	528	13700	2350	
Anthracene	<16 µg/kg	TM218	<16	<16	<16	136	3970	617	
Fluoranthene	<17 µg/kg	TM218	<17	<17	<17	267	7350	1270	
Pyrene	<15 µg/kg	TM218	<15	<15	<15	181	4490	778	
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	66.5	1170	226	
Chrysene	<10 µg/kg	TM218	<10	14.7	<10	55.8	870	172	
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	58.1	622	131	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	25.3	264	43.2	
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	42.3	575	121	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	180	45.1	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<115	<23	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	25.4	220	54.9	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	126	<118	1840	42700	7370	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH223	BH223	BH223	BH224	BH224	BH224
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	0.00 - 0.50	1.00 - 2.00	11.00 - 12.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	08/01/2019	08/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096780	19096779	19096778	19096849	19096847	19096838
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	99.3	97.2	90.3	88	89.2	93.2
Acenaphthene-d10 % recovery**	%	TM218	94.2	96.7	91.5	94.9	93.6	97.3
Phenanthrene-d10 % recovery**	%	TM218	94.6	91.9	88	99.7	95.2	100
Chrysene-d12 % recovery**	%	TM218	96	89.1	84.4	106	91.1	109
Perylene-d12 % recovery**	%	TM218	102	92	88.7	101	95.1	105
Naphthalene	<9 µg/kg	TM218	23.1	<9	10.8	69.2	157	166
Acenaphthylene	<12 µg/kg	TM218	22	<12	<12	233	158	<12
Acenaphthene	<8 µg/kg	TM218	445	50.4	78.8	49.9	287	356
Fluorene	<10 µg/kg	TM218	293	32.9	54.4	140	192	295
Phenanthrene	<15 µg/kg	TM218	946	83.6	172	1250	1830	774
Anthracene	<16 µg/kg	TM218	425	28.6	75.7	715	520	181
Fluoranthene	<17 µg/kg	TM218	879	70.9	161	3070	2370	334
Pyrene	<15 µg/kg	TM218	556	41.6	104	2580	1900	229
Benz(a)anthracene	<14 µg/kg	TM218	124	<14	20.2	2050	1140	63
Chrysene	<10 µg/kg	TM218	97.6	<10	18.5	1740	913	56.6
Benzo(b)fluoranthene	<15 µg/kg	TM218	86.4	<15	<15	2220	1110	31.8
Benzo(k)fluoranthene	<14 µg/kg	TM218	25.6	<14	<14	754	501	<14
Benzo(a)pyrene	<15 µg/kg	TM218	69.3	<15	<15	1730	1090	19.7
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	23.1	<18	<18	1030	570	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	264	190	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	32.1	<24	<24	838	634	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4050	308	695	18700	13600	2510



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH224	BH224	BH224	BH224	BH224	BH224
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	13.00 - 15.00	15.00 - 16.00	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	5.00 - 6.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096836	19096835	19096834	19096846	19096845	19096843
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	90.5	99.4	97.5	91.7	95.8	81.8
Acenaphthene-d10 % recovery**	%	TM218	88.9	94.1	100	110	108	88.2
Phenanthrene-d10 % recovery**	%	TM218	82.3	88.2	99.2	103	117	89.3
Chrysene-d12 % recovery**	%	TM218	74.9	76	90.8	108	110	87.1
Perylene-d12 % recovery**	%	TM218	70.5	71	76.4	104	101	88.8
Naphthalene	<9 µg/kg	TM218	37.2	18.1	44.6	457	665	4930
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	2910	2660	95.1
Acenaphthene	<8 µg/kg	TM218	34.9	16.2	35.4	66200	78600	10600
Fluorene	<10 µg/kg	TM218	33.6	21.9	58.5	59500	66600	8720
Phenanthrene	<15 µg/kg	TM218	102	66.7	159	119000	116000	20700
Anthracene	<16 µg/kg	TM218	<16	<16	22	40400	39800	4910
Fluoranthene	<17 µg/kg	TM218	30.6	<17	45.9	56100	56700	8310
Pyrene	<15 µg/kg	TM218	22.7	<15	32.7	38900	39100	5280
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	7560	7520	1270
Chrysene	<10 µg/kg	TM218	11.7	10.8	13.9	6170	5640	933
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	3110	2180	602
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	1280	1010	220
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	2530	2340	424
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	925	841	144
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	198	<230	46.5
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	792	662	171
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	273	134	412	406000	420000	67400



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH224	BH224	BH235	BH235	BH235	BH235
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	12.50 - 13.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096842	19096839	19096833	19096832	19096831	19096822
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	95.6	90.8	81.5	79.7	82.3	90.6
Acenaphthene-d10 % recovery**	%	TM218	97.4	92.8	84.3	88.8	86.4	94
Phenanthrene-d10 % recovery**	%	TM218	101	88.2	84.5	97.4	93.3	86.8
Chrysene-d12 % recovery**	%	TM218	95.5	84.9	86.9	108	99.2	83.9
Perylene-d12 % recovery**	%	TM218	98.7	92	89.4	104	92.9	88.1
Naphthalene	<9 µg/kg	TM218	1400	71.2	33.7	44.4	11.9	<9
Acenaphthylene	<12 µg/kg	TM218	108	<12	55.2	43.6	<12	<12
Acenaphthene	<8 µg/kg	TM218	7140	133	43.8	31.4	<8	<8
Fluorene	<10 µg/kg	TM218	6650	126	96.3	74.7	<10	<10
Phenanthrene	<15 µg/kg	TM218	17700	363	524	391	55.4	32.2
Anthracene	<16 µg/kg	TM218	3970	81.5	174	173	28.4	<16
Fluoranthene	<17 µg/kg	TM218	6890	180	974	635	100	41.8
Pyrene	<15 µg/kg	TM218	4450	116	759	492	79.7	38.1
Benz(a)anthracene	<14 µg/kg	TM218	971	20.7	470	422	71.9	<14
Chrysene	<10 µg/kg	TM218	778	22.4	380	394	55.9	20
Benzo(b)fluoranthene	<15 µg/kg	TM218	493	<15	454	498	68.6	22
Benzo(k)fluoranthene	<14 µg/kg	TM218	178	<14	176	216	22.1	<14
Benzo(a)pyrene	<15 µg/kg	TM218	330	<15	399	352	46.3	20.9
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	119	<18	190	250	28	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	37	<23	67.2	64.4	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	139	<24	221	198	28.8	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	51300	1110	5020	4280	598	175



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH235	BH235	BH235	BH235	BH235	BH235
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096821	19096819	19096830	19096829	19096828	19096826
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	99.6	98	91	89.7	99.1	91.7
Acenaphthene-d10 % recovery**	%	TM218	101	97.5	93.8	93.8	96.3	92.7
Phenanthrene-d10 % recovery**	%	TM218	102	98.2	90.6	91.3	89	89.8
Chrysene-d12 % recovery**	%	TM218	99.6	85.4	88.3	90	87	86
Perylene-d12 % recovery**	%	TM218	87.8	70.1	96.9	99.8	94.1	91
Naphthalene	<9 µg/kg	TM218	11.4	15.1	<9	<9	<9	34.1
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	9.91	244
Fluorene	<10 µg/kg	TM218	15.8	14.8	<10	<10	<10	176
Phenanthrene	<15 µg/kg	TM218	46.8	48.5	31.6	30.8	28	564
Anthracene	<16 µg/kg	TM218	<16	<16	26.9	31.3	22.6	102
Fluoranthene	<17 µg/kg	TM218	<17	<17	83.4	68.6	50.7	279
Pyrene	<15 µg/kg	TM218	<15	<15	64.1	59.3	43.3	190
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	41.3	43.2	32.2	47.3
Chrysene	<10 µg/kg	TM218	<10	<10	32	34.4	26.1	36
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	36.8	36.6	29.1	29.6
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	17.4	18.7	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	33.2	37.8	27	23.4
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	367	361	269	1730



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH235	BH235				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	8.00 - 9.00	9.00 - 10.00				
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)				
aq	Aqueous / settled sample.		10/01/2019	10/01/2019				
diss.filt	Dissolved / filtered sample.		11/01/2019	11/01/2019				
tot.unfilt	Total / unfiltered sample.		190111-125	190111-125				
*	Subcontracted - refer to subcontractor report for accreditation status.		19096825	19096824				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Naphthalene-d8 % recovery**	%		TM218	91.2	90.9			
Acenaphthene-d10 % recovery**	%	TM218	92.2	93.1				
Phenanthrene-d10 % recovery**	%	TM218	86.6	87.4				
Chrysene-d12 % recovery**	%	TM218	84.3	84.2				
Perylene-d12 % recovery**	%	TM218	92.4	89.3				
Naphthalene	<9 µg/kg	TM218	<9	37.8				
Acenaphthylene	<12 µg/kg	TM218	<12	<12	M	M		
Acenaphthene	<8 µg/kg	TM218	<8	10.8	M	M		
Fluorene	<10 µg/kg	TM218	<10	<10	M	M		
Phenanthrene	<15 µg/kg	TM218	<15	<15	M	M		
Anthracene	<16 µg/kg	TM218	<16	<16	M	M		
Fluoranthene	<17 µg/kg	TM218	<17	<17	M	M		
Pyrene	<15 µg/kg	TM218	<15	<15	M	M		
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	M	M		
Chrysene	<10 µg/kg	TM218	<10	<10	M	M		
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	M	M		
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	M	M		
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	M	M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	M	M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	M	M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	M	M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118				



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH218	BH218	BH218	BH218	BH218	BH218
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	10.00 - 11.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096850	19096851	19096861	19096863	19096864	19096866
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	89	91.2	121	15.9	59.5	18.2
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	227	195	1290	403	34800	535
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	<10	30	10.9
Aliphatics >C6-C8	<10 µg/kg	TM089	19.2	23.6	28.3	43.7	344	46.9
Aliphatics >C8-C10	<10 µg/kg	TM089	28.3	31.9	226	93	10100	117
Aliphatics >C10-C12	<10 µg/kg	TM089	92.7	68.4	527	115	10500	167
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	188	<100	<100	<100	758
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	4200	3260	<100	224	1120
Aliphatics >C21-C35	<100 µg/kg	TM173	13000	28800	23500	11500	26500	26100
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	4770	11500	2200	5950	6350
Total Aliphatics >C12-C44	<100 µg/kg	TM173	13000	37900	38300	13700	32700	34300
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	11.1	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	19.2	21.2	150	61.6	6730	77.4
Aromatics >EC10-EC12	<10 µg/kg	TM089	61	44.8	350	77.3	7030	111
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	385	<100	<100	183	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	5550	7600	<100	635	1490	953
Aromatics >EC21-EC35	<100 µg/kg	TM173	28800	45400	385	4830	9320	6020
Aromatics >EC35-EC44	<100 µg/kg	TM173	8030	5270	<100	2320	1820	1280
Aromatics >EC40-EC44	<100 µg/kg	TM173	2570	740	<100	1090	451	413
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	42400	58700	385	7780	12800	8250
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	55600	96800	40000	21800	80300	43100



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH219	BH219	BH219	BH219	BH219	BH222
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	8.00 - 9.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	09/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096791	19096790	19096789	19096788	19096787	19096817
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	92	114	127	115	128	91.3
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	369	430	521	2490	823	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	10.4	13.1	26.2	11.1	12.3	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	38	54.7	100	50	47	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	69	115	105	599	186	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	123	101	128	852	272	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	4330	1120	1750	230	<100	2300
Aliphatics >C16-C21	<100 µg/kg	TM173	13000	2530	4180	640	<100	6400
Aliphatics >C21-C35	<100 µg/kg	TM173	78900	14900	21200	6790	<100	65300
Aliphatics >C35-C44	<100 µg/kg	TM173	13300	2410	3330	<100	<100	18800
Total Aliphatics >C12-C44	<100 µg/kg	TM173	109000	20900	30500	7660	<100	92700
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	46	76.2	70.7	400	124	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	81.7	67.8	85.5	568	181	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	1860	<100	773	269	<100	2380
Aromatics >EC16-EC21	<100 µg/kg	TM173	23800	3780	6500	642	<100	9680
Aromatics >EC21-EC35	<100 µg/kg	TM173	55200	12800	21100	2910	<100	62000
Aromatics >EC35-EC44	<100 µg/kg	TM173	4190	2650	3460	539	<100	42400
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	942	627	143	<100	18100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	85000	19300	31800	4360	<100	116000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	195000	40600	62800	14500	823	209000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH223	BH223	BH223	BH223	BH223	BH223
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	12.00 - 13.00	13.00 - 14.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096774	19096773	19096771	19096783	19096782	19096781
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	15.6	10.4	21.3	82.3	92.1	91
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	<100	149	325	236000	45900
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	10.3	<10	<200	20.9
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10	33.1	39.9	903	82.4
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10	37.2	73.6	75800	16800
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10	23.8	89.3	65400	10700
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	1480	1320	<100	46400	9050
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	1460	1500	627	89100	18900
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	3930	3960	19900	242000	47300
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	4960	<100	5390	49500	6160
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	11800	6780	26000	427000	81400
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<200	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<200	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10	24.8	49.4	50500	11200
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	15.5	59.9	43600	7150
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	963	<100	901	74200	18300
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	1680	<100	2650	184000	53700
Aromatics >EC21-EC35	<100 µg/kg	TM173	1710	6100	<100	6670	265000	92700
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	5430	<100	<100	57700	19700
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	2390	<100	<100	18300	5970
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1710	14200	<100	10200	581000	184000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1710	26000	6880	36500	1240000	312000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH223	BH223	BH223	BH224	BH224	BH224
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	0.00 - 0.50	1.00 - 2.00	11.00 - 12.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	08/01/2019	08/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096780	19096779	19096778	19096849	19096847	19096838
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	119	103	128	76.9	82.4	100
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	44300	1810	715	200	1030	964
Aliphatics >C5-C6	<10 µg/kg	TM089	22.6	14.1	10.8	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	111	65.3	48.8	24.9	37	35
Aliphatics >C8-C10	<10 µg/kg	TM089	16400	474	193	49.8	175	168
Aliphatics >C10-C12	<10 µg/kg	TM089	10100	559	198	48.8	412	382
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	917	<100	897	1300	1830
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	1330	<100	3570	7590	2280
Aliphatics >C21-C35	<100 µg/kg	TM173	4540	5610	5050	33600	36400	2720
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	4260	<100	13300	13500	602
Total Aliphatics >C12-C44	<100 µg/kg	TM173	4540	12100	5050	51400	58800	7430
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	10900	317	128	33.2	116	112
Aromatics >EC10-EC12	<10 µg/kg	TM089	6760	373	132	33.2	276	254
Aromatics >EC12-EC16	<100 µg/kg	TM173	2370	370	609	139	4950	11900
Aromatics >EC16-EC21	<100 µg/kg	TM173	6030	1910	1830	984	20800	15300
Aromatics >EC21-EC35	<100 µg/kg	TM173	8860	2040	2460	8900	63200	7980
Aromatics >EC35-EC44	<100 µg/kg	TM173	1590	2760	<100	3810	18300	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	1750	<100	1190	5790	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	18800	7080	4900	13800	107000	35200
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	67700	21000	10700	65400	167000	43500



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH224	BH224	BH235	BH235	BH235	BH235
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	12.50 - 13.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096842	19096839	19096833	19096832	19096831	19096822
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	103	101	86.8	110	88.5	26.7
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	8760	666	<100	427	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	12.1	<10	<10	18.6	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	74.8	29.5	15.3	60.8	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	1040	131	24.8	117	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	4160	245	<10	90.5	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	10600	<100	977	170	545	1260
Aliphatics >C16-C21	<100 µg/kg	TM173	14400	663	7070	1060	2220	958
Aliphatics >C21-C35	<100 µg/kg	TM173	24000	2230	98500	13300	6840	3610
Aliphatics >C35-C44	<100 µg/kg	TM173	5660	<100	63000	8580	867	2640
Total Aliphatics >C12-C44	<100 µg/kg	TM173	54600	2900	169000	23100	10500	8470
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	694	87.3	16.5	78.1	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	2780	163	<10	60.8	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	49100	360	3240	<100	118	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	82300	<100	20900	2490	5630	120
Aromatics >EC21-EC35	<100 µg/kg	TM173	53700	<100	95100	18400	28800	276
Aromatics >EC35-EC44	<100 µg/kg	TM173	9300	<100	51200	1830	6360	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	3310	<100	21500	219	1600	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	194000	360	171000	22700	40900	396
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	258000	3910	340000	46200	51400	8860



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH218	BH218	BH218	BH218	BH218	BH219
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	6.00 - 7.00	9.00 - 10.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	07/01/2019	07/01/2019	07/01/2019	07/01/2019	07/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096867	19096853	19096854	19096857	19096860	19096796
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	105	104	110	118	118	113
Toluene-d8**	%	TM116	100	97	96	96.4	98.5	99.5
4-Bromofluorobenzene**	%	TM116	98.9	93	94.6	82.4	92.8	91.5
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<2000	<200	<100	<10	<10	<200
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<1800	<180	<90	<9	<9	<180
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<1400	<140	<70	<7	<7	<140
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<800	<80	<40	<4	<4	<80
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<2000	<200	<100	<10	<10	<200
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<2000	<200	<100	<10	<10	<200
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<4	<0.4	<0.2	<0.02	<0.02	<0.4
Sum of BTEX	<40 µg/kg	TM116	<8000	<800	<400	<40	<40	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH219	BH219	BH219	BH219	BH219	BH219
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	10.50 - 11.00	13.00 - 14.00	15.00 - 16.00	16.00 - 17.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096795	19096786	19096800	19096798	19096797	19096793
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	113	121	115	108	106	106
Toluene-d8**	%	TM116	99.1	96.4	95.7	94.6	100	100
4-Bromofluorobenzene**	%	TM116	93.2	87.3	74.2	74.3	97.8	97.8
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<10	<200	<200	<2000	<2000
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<180	<9	<180	<180	<1800	<1800
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<140	<7	<140	<140	<1400	<1400
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<80	<4	<80	<80	<800	<800
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<200	<10	<200	<200	<2000	<2000
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<200	<10	<200	<200	<2000	<2000
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.02	<0.4	<0.4	<4	<4
Sum of BTEX	<40 µg/kg	TM116	<800	<40	<800	<800	<8000	<8000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH223	BH223	BH223	BH223	BH223	BH223
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	12.00 - 13.00	13.00 - 14.00	15.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019	09/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096774	19096773	19096771	19096783	19096782	19096781
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	107	101	101	115	100	99.4
Toluene-d8**	%	TM116	96.4	97.2	98.3	96.6	78.8	89.7
4-Bromofluorobenzene**	%	TM116	81	99.9	98.4	93.8	71.7	75.4
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<2000	<2000	<100	<10	<10
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<180	<1800	<1800	<90	<9	<9
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<140	<1400	<1400	<70	153	<7
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<80	<800	<800	<40	<4	<4
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<200	<2000	<2000	<100	<10	<10
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<200	<2000	<2000	<100	<10	<10
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<4	<4	<0.2	<0.02	<0.02
Sum of BTEX	<40 µg/kg	TM116	<800	<8000	<8000	<400	153	<40



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH223	BH223	BH223	BH224	BH224	BH224
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	0.00 - 0.50	1.00 - 2.00	11.00 - 12.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	09/01/2019	09/01/2019	09/01/2019	08/01/2019	08/01/2019	08/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096780	19096779	19096778	19096849	19096847	19096838
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	98.9	117	103	109	110	110
Toluene-d8**	%	TM116	90.6	97.2	97	98.7	98.9	97.4
4-Bromofluorobenzene**	%	TM116	81.2	86	97.2	92.1	90.1	87.9
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<10	<100	<200	<100	<10
			M	#	M	#	M	M
Benzene	<9 µg/kg	TM116	<9	<9	<90	<180	<90	<9
			M	#	M	#	M	M
Toluene	<7 µg/kg	TM116	<7	<7	<70	<140	<70	<7
			M	#	M	#	M	M
Ethylbenzene	<4 µg/kg	TM116	<4	<4	<40	<80	<40	<4
			M	#	M	#	M	M
p/m-Xylene	<10 µg/kg	TM116	<10	<10	<100	<200	<100	<10
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<10	<10	<100	<200	<100	<10
			M	#	M	#	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.02	<0.02	<0.2	<0.4	<0.2	<0.02
Sum of BTEX	<40 µg/kg	TM116	<40	<40	<400	<800	<400	<40



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH224	BH224	BH235	BH235	BH235	BH235
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	6.00 - 7.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	12.50 - 13.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	08/01/2019	08/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096842	19096839	19096833	19096832	19096831	19096822
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	102	118	103	103	111	102
Toluene-d8**	%	TM116	93.9	97.4	96.4	96.2	97.8	97.2
4-Bromofluorobenzene**	%	TM116	80.5	88.2	94.6	91.2	94.7	96.6
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<10	<200	<200	<100	<2000
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<9	<9	<180	<180	<90	<1800
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<7	<7	<140	<140	<70	<1400
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<4	<4	<80	<80	<40	<800
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<10	<10	<200	<200	<100	<2000
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<10	<10	<200	<200	<100	<2000
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.02	<0.02	<0.4	<0.4	<0.2	<4
Sum of BTEX	<40 µg/kg	TM116	<40	<40	<800	<800	<400	<8000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH235	BH235	BH235	BH235	BH235	BH235
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	13.00 - 14.00	15.00 - 16.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	7.00 - 8.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
		Date Received	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019
		SDG Ref	190111-125	190111-125	190111-125	190111-125	190111-125	190111-125
		Lab Sample No.(s)	19096821	19096819	19096830	19096829	19096828	19096826
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	101	103	105	119	104	107
Toluene-d8**	%	TM116	96.6	96.9	96.9	97.2	98.2	98
4-Bromofluorobenzene**	%	TM116	96.2	98.3	95.8	95.1	94.4	84.1
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<2000	<2000	<100	<200	<200	<10
			M	M	M	M	M	M
Benzene	<9 µg/kg	TM116	<1800	<1800	<90	<180	<180	<9
			M	M	M	M	M	M
Toluene	<7 µg/kg	TM116	<1400	<1400	<70	<140	<140	<7
			M	M	M	M	M	M
Ethylbenzene	<4 µg/kg	TM116	<800	<800	<40	<80	<80	<4
			M	M	M	M	M	M
p/m-Xylene	<10 µg/kg	TM116	<2000	<2000	<100	<200	<200	<10
			#	#	#	#	#	#
o-Xylene	<10 µg/kg	TM116	<2000	<2000	<100	<200	<200	<10
			M	M	M	M	M	M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<4	<4	<0.2	<0.4	<0.4	<0.02
Sum of BTEX	<40 µg/kg	TM116	<8000	<8000	<400	<800	<800	<40



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+§@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre		
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 0.00 - 0.50 SOLID 07/01/2019 00:00:00 14/01/2019 15:09:39 190111-125 19,096,850 TM048	15/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 0.50 - 1.00 SOLID 07/01/2019 00:00:00 14/01/2019 15:13:23 190111-125 19,096,851 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 10.00 - 11.00 SOLID 07/01/2019 00:00:00 14/01/2019 14:44:05 190111-125 19,096,861 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 12.00 - 13.00 SOLID 07/01/2019 00:00:00 14/01/2019 16:09:02 190111-125 19,096,863 TM048	16/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 13.00 - 14.00 SOLID 07/01/2019 00:00:00 14/01/2019 16:33:30 190111-125 19,096,864 TM048	15/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 15.00 - 16.00 SOLID 07/01/2019 00:00:00 14/01/2019 16:00:26 190111-125 19,096,866 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 16.00 - 17.00 SOLID 07/01/2019 00:00:00 14/01/2019 15:42:23 190111-125 19,096,867 TM048	16/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 2.00 - 3.00 SOLID 07/01/2019 00:00:00 15/01/2019 08:39:10 190111-125 19,096,853 TM048	16/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 3.00 - 4.00 SOLID 07/01/2019 00:00:00 14/01/2019 14:31:24 190111-125 19,096,854 TM048	15/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Trace
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 6.00 - 7.00 SOLID 07/01/2019 00:00:00 14/01/2019 20:59:33 190111-125 19,096,857 TM048	15/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH218 NS Z 9.00 - 10.00 SOLID 07/01/2019 00:00:00 15/01/2019 08:47:57 190111-125 19,096,860 TM048	16/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 0.00 - 0.50 SOLID 08/01/2019 00:00:00 14/01/2019 15:40:41 190111-125 19,096,796 TM048	17/01/2019	Barbara Urbanek-Walsh	Soil containing ACM debris and loose fibres.	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 0.50 - 1.00 SOLID 08/01/2019 00:00:00 15/01/2019 08:11:48 190111-125 19,096,795 TM048	18/01/2019	Barbara Urbanek-Walsh	Soil containing ACM debris.	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 10.50 - 11.00 SOLID 08/01/2019 00:00:00 14/01/2019 17:31:58 190111-125 19,096,786 TM048	16/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 13.00 - 14.00 SOLID 08/01/2019 00:00:00 14/01/2019 18:28:39 190111-125 19,096,800 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 15.00 - 16.00 SOLID 08/01/2019 00:00:00 15/01/2019 08:14:48 190111-125 19,096,798 TM048	16/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 16.00 - 17.00 SOLID 08/01/2019 00:00:00 15/01/2019 07:48:35 190111-125 19,096,797 TM048	17/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 3.00 - 4.00 SOLID 08/01/2019 00:00:00 15/01/2019 08:13:20 190111-125 19,096,793 TM048	18/01/2019	Renata Bozhkov	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 3.00 - 4.00 SOLID 08/01/2019 00:00:00 14/01/2019 19:06:55 190111-125 19,096,791 TM048	16/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 5.00 - 6.00 SOLID 08/01/2019 00:00:00 14/01/2019 15:05:59 190111-125 19,096,790 TM048	17/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 6.00 - 7.00 SOLID 08/01/2019 00:00:00 14/01/2019 15:07:50 190111-125 19,096,789 TM048	17/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 7.00 - 8.00 SOLID 08/01/2019 00:00:00 14/01/2019 15:40:28 190111-125 19,096,788 TM048	17/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 9.00 - 10.00 SOLID 08/01/2019 00:00:00 14/01/2019 16:01:30 190111-125 19,096,787 TM048	18/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 0.00 - 0.50 SOLID 09/01/2019 00:00:00 15/01/2019 06:49:45 190111-125 19,096,817 TM048	15/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 0.00 - 2.00 SOLID 09/01/2019 00:00:00 14/01/2019 17:16:51 190111-125 19,096,815 TM048	17/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 1.00 - 2.00 SOLID 09/01/2019 00:00:00 14/01/2019 15:38:58 190111-125 19,096,807 TM048	17/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 13.00 - 15.00 SOLID 09/01/2019 00:00:00 15/01/2019 07:45:48 190111-125 19,096,803 TM048	17/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 15.00 - 16.00 SOLID 09/01/2019 00:00:00 14/01/2019 18:30:14 190111-125 19,096,802 TM048	18/01/19	Andrzej Fernecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 2.00 - 3.00 SOLID 09/01/2019 00:00:00 15/01/2019 09:14:25 190111-125 19,096,814 TM048	16/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 4.00 - 5.00 SOLID 09/01/2019 00:00:00 14/01/2019 14:23:39 190111-125 19,096,812 TM048	15/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 4.00 - 5.00 SOLID 09/01/2019 00:00:00 14/01/2019 16:35:03 190111-125 19,096,810 TM048	18/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 6.00 - 7.00 SOLID 09/01/2019 00:00:00 14/01/2019 17:53:50 190111-125 19,096,809 TM048	18/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH222 NS Z 9.00 - 10.00 SOLID 09/01/2019 00:00:00 14/01/2019 16:02:35 190111-125 19,096,808 TM048	18/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 0.00 - 1.00 SOLID 09/01/2019 00:00:00 14/01/2019 16:10:21 190111-125 19,096,784 TM048	17/01/19	Andrzej Ferfecki	oose fibres in soil	Not Detected	Trace	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 10.00 - 11.00 SOLID 09/01/2019 00:00:00 14/01/2019 13:35:30 190111-125 19,096,776 TM048	16/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 11.00 - 12.00 SOLID 09/01/2019 00:00:00 14/01/2019 14:35:25 190111-125 19,096,775 TM048	16/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 12.00 - 13.00 SOLID 09/01/2019 00:00:00 15/01/2019 08:42:12 190111-125 19,096,774 TM048	17/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 13.00 - 14.00 SOLID 09/01/2019 00:00:00 14/01/2019 19:35:54 190111-125 19,096,773 TM048	18/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 15.00 - 17.00 SOLID 09/01/2019 00:00:00 14/01/2019 20:46:22 190111-125 19,096,771 TM048	17/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 2.00 - 3.00 SOLID 09/01/2019 00:00:00 14/01/2019 14:24:31 190111-125 19,096,783 TM048	15/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 3.00 - 4.00 SOLID 09/01/2019 00:00:00 14/01/2019 14:44:49 190111-125 19,096,782 TM048	15/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 4.00 - 5.00 SOLID 09/01/2019 00:00:00 15/01/2019 08:49:27 190111-125 19,096,781 TM048	18/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 5.00 - 6.00 SOLID 09/01/2019 00:00:00 14/01/2019 17:20:58 190111-125 19,096,780 TM048	17/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 6.00 - 7.00 SOLID 09/01/2019 00:00:00 14/01/2019 16:51:02 190111-125 19,096,779 TM048	17/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 7.00 - 8.00 SOLID 09/01/2019 00:00:00 15/01/2019 06:50:51 190111-125 19,096,778 TM048	16/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 0.00 - 0.50 SOLID 08/01/2019 00:00:00 14/01/2019 18:31:23 190111-125 19,096,849 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 1.00 - 2.00 SOLID 08/01/2019 00:00:00 14/01/2019 15:41:58 190111-125 19,096,847 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 11.00 - 12.00 SOLID 08/01/2019 00:00:00 14/01/2019 16:36:53 190111-125 19,096,838 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 13.00 - 15.00 SOLID 08/01/2019 00:00:00 14/01/2019 14:22:40 190111-125 19,096,836 TM048	15/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 15.00 - 16.00 SOLID 08/01/2019 00:00:00 14/01/2019 14:45:36 190111-125 19,096,835 TM048	15/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 16.00 - 17.00 SOLID 08/01/2019 00:00:00 15/01/2019 08:51:41 190111-125 19,096,834 TM048	16/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 2.00 - 3.00 SOLID 08/01/2019 00:00:00 15/01/2019 08:15:28 190111-125 19,096,846 TM048	16/01/2019	Marcin Magdziarek	Fibre bundle in soil	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 3.00 - 4.00 SOLID 08/01/2019 00:00:00 15/01/2019 07:46:50 190111-125 19,096,845 TM048	16/01/2019	Lucy Caroe	Loose fibres in soil	Not Detected	Trace	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 5.00 - 6.00 SOLID 08/01/2019 00:00:00 14/01/2019 19:11:27 190111-125 19,096,843 TM048	16/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 6.00 - 7.00 SOLID 08/01/2019 00:00:00 14/01/2019 15:04:19 190111-125 19,096,842 TM048	16/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 9.00 - 11.00 SOLID 08/01/2019 00:00:00 14/01/2019 17:30:02 190111-125 19,096,839 TM048	15/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 0.00 - 0.50 SOLID 10/01/2019 00:00:00 14/01/2019 17:18:03 190111-125 19,096,833 TM048	16/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 0.50 - 1.00 SOLID 10/01/2019 00:00:00 14/01/2019 16:52:59 190111-125 19,096,832 TM048	16/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 1.00 - 2.00 SOLID 10/01/2019 00:00:00 14/01/2019 21:00:40 190111-125 19,096,831 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 12.50 - 13.00 SOLID 10/01/2019 00:00:00 14/01/2019 19:33:18 190111-125 19,096,822 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 13.00 - 14.00 SOLID 10/01/2019 00:00:00 15/01/2019 08:41:16 190111-125 19,096,821 TM048	16/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 15.00 - 16.00 SOLID 10/01/2019 00:00:00 14/01/2019 13:38:09 190111-125 19,096,819 TM048	16/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 2.00 - 3.00 SOLID 10/01/2019 00:00:00 14/01/2019 15:26:52 190111-125 19,096,830 TM048	15/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 3.00 - 4.00 SOLID 10/01/2019 00:00:00 14/01/2019 13:36:59 190111-125 19,096,829 TM048	16/01/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 4.00 - 5.00 SOLID 10/01/2019 00:00:00 14/01/2019 14:32:33 190111-125 19,096,828 TM048	16/01/19	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre	
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 7.00 - 8.00 SOLID 10/01/2019 00:00:00 14/01/2019 19:34:19 190111-125 19,096,826 TM048	15/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 8.00 - 9.00 SOLID 10/01/2019 00:00:00 14/01/2019 15:10:53 190111-125 19,096,825 TM048	15/01/19	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH235 NS Z 9.00 - 10.00 SOLID 10/01/2019 00:00:00 14/01/2019 15:11:57 190111-125 19,096,824 TM048	15/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Asbestos Quantification - Full

Results Legend		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
#	ISO17025 accredited.					
M	mCERTS accredited.					
*	Subcontracted test.					
(F)	Trigger breach confirmed					
1-5&*\$@	Sample deviation (see appendix)					
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 0.00 - 0.50 SOLID 08/01/2019 00:00:00 23/01/2019 08:07:44 190111-125 19,096,796 TM304	None	N/C	0.0104	<0.001	0.0112
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH219 NS Z 0.50 - 1.00 SOLID 08/01/2019 00:00:00 25/01/2019 13:44:28 190111-125 19,096,795 TM304	Amosite (trace)	Loose fibres in soil	0.0016	0.0010	0.0026



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH223 NS Z 0.00 - 1.00 SOLID 09/01/2019 00:00:00 24/01/2019 06:46:29 190111-125 19,096,784 TM304	None	N/C	<0.001	<0.001	<0.001
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 2.00 - 3.00 SOLID 08/01/2019 00:00:00 22/02/2019 08:03:01 190111-125 19,096,846 TM304	None	N/A	<0.001	<0.001	<0.001
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH224 NS Z 3.00 - 4.00 SOLID 08/01/2019 00:00:00 22/02/2019 07:49:55 190111-125 19,096,845 TM304	None	N/A	<0.001	<0.001	<0.001



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.093
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	3.31
Dry Matter Content (%)	96.8

Case	
SDG	190111-125
Lab Sample Number(s)	19096771
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.455
Loss on Ignition (%)	6.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.40
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.08
ANC to pH 6 (mol/kg)	0.187
ANC to pH 4 (mol/kg)	1.09

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000641	<0.0005	0.00641	<0.005	0.5	2	25
Barium	0.0572	<0.0002	0.572	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00137	<0.0003	0.0137	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.023	<0.003	0.23	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	0.000307	<0.0002	0.00307	<0.002	0.5	10	50
Antimony	0.00334	<0.001	0.0334	<0.01	0.06	0.7	5
Selenium	0.0304	<0.001	0.304	<0.01	0.1	0.5	7
Zinc	0.00131	<0.001	0.0131	<0.01	4	50	200
Chloride	126	<2	1260	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	39.1	<2	391	<20	1000	20000	50000
Total Dissolved Solids	361	<5	3610	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.15
Conductivity (µS/cm)	482
Temperature (°C)	14.60
Volume Leachant (Litres)	0.897

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.093	Natural Moisture Content (%)	3.31
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	96.8
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096771
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.455
Loss on Ignition (%)	6.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.40
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.08
ANC to pH 6 (mol/kg)	0.187
ANC to pH 4 (mol/kg)	1.09

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.15
Conductivity (µS/cm)	482
Temperature (°C)	14.60
Volume Leachant (Litres)	0.897

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.27
Dry Matter Content (%)	94.1

Case	
SDG	190111-125
Lab Sample Number(s)	19096773
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.596
Loss on Ignition (%)	1.55
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.60
ANC to pH 6 (mol/kg)	0.189
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000578	<0.0005	0.00578	<0.005	0.5	2	25
Barium	0.0439	<0.0002	0.439	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000542	<0.0003	0.00542	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0204	<0.003	0.204	<0.03	0.5	10	30
Nickel	0.000984	<0.0004	0.00984	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00249	<0.001	0.0249	<0.01	0.06	0.7	5
Selenium	0.0291	<0.001	0.291	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	141	<2	1410	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.6	<2	456	<20	1000	20000	50000
Total Dissolved Solids	402	<5	4020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	539
Temperature (°C)	16.10
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.27
Dry Matter Content (%)	94.1

Case	
SDG	190111-125
Lab Sample Number(s)	19096773
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.596
Loss on Ignition (%)	1.55
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.60
ANC to pH 6 (mol/kg)	0.189
ANC to pH 4 (mol/kg)	1.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	539
Temperature (°C)	16.10
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096774
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.390
Loss on Ignition (%)	1.75
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.73
ANC to pH 6 (mol/kg)	0.319
ANC to pH 4 (mol/kg)	1.39

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000641	<0.0005	0.00641	<0.005	0.5	2	25
Barium	0.052	<0.0002	0.52	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000338	<0.0003	0.00338	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0171	<0.003	0.171	<0.03	0.5	10	30
Nickel	0.000833	<0.0004	0.00833	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0025	<0.001	0.025	<0.01	0.06	0.7	5
Selenium	0.0287	<0.001	0.287	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	177	<2	1770	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.2	<2	452	<20	1000	20000	50000
Total Dissolved Solids	484	<5	4840	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.51	<3	35.1	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.82
Conductivity (µS/cm)	646
Temperature (°C)	15.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case

SDG	190111-125
Lab Sample Number(s)	19096774
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis

Result	
Total Organic Carbon (%)	0.390
Loss on Ignition (%)	1.75
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.73
ANC to pH 6 (mol/kg)	0.319
ANC to pH 4 (mol/kg)	1.39

Eluate Analysis

	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.82
Conductivity (µS/cm)	646
Temperature (°C)	15.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096775
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.462
Loss on Ignition (%)	1.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.02
ANC to pH 6 (mol/kg)	0.0747
ANC to pH 4 (mol/kg)	0.405

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000777	<0.0005	0.00777	<0.005	0.5	2	25
Barium	0.051	<0.0002	0.51	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00739	<0.003	0.0739	<0.03	0.5	10	30
Nickel	0.000644	<0.0004	0.00644	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00162	<0.001	0.0162	<0.01	0.06	0.7	5
Selenium	0.0132	<0.001	0.132	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	153	<2	1530	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	29.2	<2	292	<20	1000	20000	50000
Total Dissolved Solids	430	<5	4300	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.79
Conductivity (µS/cm)	589
Temperature (°C)	17.50
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096775
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.462
Loss on Ignition (%)	1.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.02
ANC to pH 6 (mol/kg)	0.0747
ANC to pH 4 (mol/kg)	0.405

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.79
Conductivity (µS/cm)	589
Temperature (°C)	17.50
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096776
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.329
Loss on Ignition (%)	1.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.05
ANC to pH 6 (mol/kg)	0.106
ANC to pH 4 (mol/kg)	0.241

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000954	<0.0005	0.00954	<0.005	0.5	2	25
Barium	0.0289	<0.0002	0.289	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00477	<0.003	0.0477	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	196	<2	1960	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	31.8	<2	318	<20	1000	20000	50000
Total Dissolved Solids	553	<5	5530	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.60
Conductivity (µS/cm)	757
Temperature (°C)	17.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.105	Natural Moisture Content (%)	16.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	86.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096776
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.329
Loss on Ignition (%)	1.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.05
ANC to pH 6 (mol/kg)	0.106
ANC to pH 4 (mol/kg)	0.241

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.60
Conductivity (µS/cm)	757
Temperature (°C)	17.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.34
Dry Matter Content (%)	92.3

Case	
SDG	190111-125
Lab Sample Number(s)	19096778
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.951
Loss on Ignition (%)	1.13
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.76
ANC to pH 6 (mol/kg)	0.130
ANC to pH 4 (mol/kg)	0.348

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00234	<0.0005	0.0234	<0.005	0.5	2	25
Barium	0.00669	<0.0002	0.0669	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000985	<0.0003	0.00985	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00334	<0.003	0.0334	<0.03	0.5	10	30
Nickel	0.000829	<0.0004	0.00829	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00181	<0.001	0.0181	<0.01	0.06	0.7	5
Selenium	0.00171	<0.001	0.0171	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	19.8	<2	198	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	18.9	<2	189	<20	1000	20000	50000
Total Dissolved Solids	125	<5	1250	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.18
Conductivity (µS/cm)	170
Temperature (°C)	18.40
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.34
Dry Matter Content (%)	92.3

Case	
SDG	190111-125
Lab Sample Number(s)	19096778
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.951
Loss on Ignition (%)	1.13
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.76
ANC to pH 6 (mol/kg)	0.130
ANC to pH 4 (mol/kg)	0.348

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.18
Conductivity (µS/cm)	170
Temperature (°C)	18.40
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.81
Dry Matter Content (%)	91.9

Case	
SDG	190111-125
Lab Sample Number(s)	19096779
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.363
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.06
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.73
ANC to pH 6 (mol/kg)	0.175
ANC to pH 4 (mol/kg)	0.985

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00271	<0.0005	0.0271	<0.005	0.5	2	25
Barium	0.00502	<0.0002	0.0502	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000615	<0.0003	0.00615	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00456	<0.003	0.0456	<0.03	0.5	10	30
Nickel	0.000878	<0.0004	0.00878	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00281	<0.001	0.0281	<0.01	0.06	0.7	5
Selenium	0.00161	<0.001	0.0161	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	8.3	<2	83	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	29	<2	290	<20	1000	20000	50000
Total Dissolved Solids	114	<5	1140	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.89	<3	38.9	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.95
Conductivity (µS/cm)	150
Temperature (°C)	17.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.81
Dry Matter Content (%)	91.9

Case	
SDG	190111-125
Lab Sample Number(s)	19096779
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.363
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.06
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.73
ANC to pH 6 (mol/kg)	0.175
ANC to pH 4 (mol/kg)	0.985

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.95
Conductivity (µS/cm)	150
Temperature (°C)	17.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096780
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.32
Loss on Ignition (%)	2.77
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	40.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.0633
ANC to pH 4 (mol/kg)	0.202

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00187	<0.0005	0.0187	<0.005	0.5	2	25
Barium	0.00497	<0.0002	0.0497	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0228	<0.003	0.228	<0.03	0.5	10	30
Nickel	0.00135	<0.0004	0.0135	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00368	<0.001	0.0368	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	14.5	<2	145	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.3	<2	413	<20	1000	20000	50000
Total Dissolved Solids	200	<5	2000	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.12	<3	81.2	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.35
Conductivity (µS/cm)	263
Temperature (°C)	17.80
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096780
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.32
Loss on Ignition (%)	2.77
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	40.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.0633
ANC to pH 4 (mol/kg)	0.202

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.35
Conductivity (µS/cm)	263
Temperature (°C)	17.80
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096781
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.06
Loss on Ignition (%)	7.11
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.173
ANC to pH 4 (mol/kg)	0.429

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00368	<0.0005	0.0368	<0.005	0.5	2	25
Barium	0.00365	<0.0002	0.0365	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00366	<0.0003	0.0366	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0464	<0.003	0.464	<0.03	0.5	10	30
Nickel	0.00212	<0.0004	0.0212	<0.004	0.4	10	40
Lead	0.00173	<0.0002	0.0173	<0.002	0.5	10	50
Antimony	0.00392	<0.001	0.0392	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0028	<0.001	0.028	<0.01	4	50	200
Chloride	34.5	<2	345	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	6.4	<2	64	<20	1000	20000	50000
Total Dissolved Solids	234	<5	2340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	17.8	<3	178	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.69
Conductivity (µS/cm)	300
Temperature (°C)	16.20
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096781
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.06
Loss on Ignition (%)	7.11
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.173
ANC to pH 4 (mol/kg)	0.429

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.69
Conductivity (µS/cm)	300
Temperature (°C)	16.20
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096782
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.35
Loss on Ignition (%)	9.68
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	308
PAH Sum of 17 (mg/kg)	42.7
pH (pH Units)	8.52
ANC to pH 6 (mol/kg)	0.0557
ANC to pH 4 (mol/kg)	0.424

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0159	<0.0005	0.159	<0.005	0.5	2	25
Barium	0.00281	<0.0002	0.0281	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00181	<0.001	0.0181	<0.01	0.5	10	70
Copper	0.00705	<0.0003	0.0705	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0253	<0.003	0.253	<0.03	0.5	10	30
Nickel	0.00308	<0.0004	0.0308	<0.004	0.4	10	40
Lead	0.000337	<0.0002	0.00337	<0.002	0.5	10	50
Antimony	0.00376	<0.001	0.0376	<0.01	0.06	0.7	5
Selenium	0.00324	<0.001	0.0324	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	40.4	<2	404	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	32.3	<2	323	<20	1000	20000	50000
Total Dissolved Solids	159	<5	1590	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	29.9	<3	299	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	10.34
Conductivity (µS/cm)	208
Temperature (°C)	14.20
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096782
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.35
Loss on Ignition (%)	9.68
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	308
PAH Sum of 17 (mg/kg)	42.7
pH (pH Units)	8.52
ANC to pH 6 (mol/kg)	0.0557
ANC to pH 4 (mol/kg)	0.424

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	10.34
Conductivity (µS/cm)	208
Temperature (°C)	14.20
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.15
Dry Matter Content (%)	95.1

Case	
SDG	190111-125
Lab Sample Number(s)	19096783
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.08
Loss on Ignition (%)	4.70
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.92
ANC to pH 6 (mol/kg)	0.192
ANC to pH 4 (mol/kg)	0.694

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000818	<0.0005	0.00818	<0.005	0.5	2	25
Barium	0.0335	<0.0002	0.335	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00382	<0.001	0.0382	<0.01	0.5	10	70
Copper	0.00883	<0.0003	0.0883	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0137	<0.003	0.137	<0.03	0.5	10	30
Nickel	0.00216	<0.0004	0.0216	<0.004	0.4	10	40
Lead	0.000632	<0.0002	0.00632	<0.002	0.5	10	50
Antimony	0.00108	<0.001	0.0108	<0.01	0.06	0.7	5
Selenium	0.00305	<0.001	0.0305	<0.01	0.1	0.5	7
Zinc	0.00271	<0.001	0.0271	<0.01	4	50	200
Chloride	19.3	<2	193	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	38.2	<2	382	<20	1000	20000	50000
Total Dissolved Solids	795	<5	7950	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4	<3	40	<30	500	800	1000

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	11.65
Conductivity (µS/cm)	1100
Temperature (°C)	16.90
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.15
Dry Matter Content (%)	95.1

Case	
SDG	190111-125
Lab Sample Number(s)	19096783
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.08
Loss on Ignition (%)	4.70
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.92
ANC to pH 6 (mol/kg)	0.192
ANC to pH 4 (mol/kg)	0.694

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	11.65
Conductivity (µS/cm)	1100
Temperature (°C)	16.90
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.093
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	3.52
Dry Matter Content (%)	96.6

Case	
SDG	190111-125
Lab Sample Number(s)	19096784
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.485
Loss on Ignition (%)	6.31
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	27.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.88
ANC to pH 6 (mol/kg)	0.265
ANC to pH 4 (mol/kg)	0.981

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00155	<0.0005	0.0155	<0.005	0.5	2	25
Barium	0.0245	<0.0002	0.245	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.026	<0.001	0.26	<0.01	0.5	10	70
Copper	0.00466	<0.0003	0.0466	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0103	<0.003	0.103	<0.03	0.5	10	30
Nickel	0.000437	<0.0004	0.00437	<0.004	0.4	10	40
Lead	0.000657	<0.0002	0.00657	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00603	<0.001	0.0603	<0.01	0.1	0.5	7
Zinc	0.0014	<0.001	0.014	<0.01	4	50	200
Chloride	23.4	<2	234	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	79.7	<2	797	<20	1000	20000	50000
Total Dissolved Solids	614	<5	6140	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	11.35
Conductivity (µS/cm)	880
Temperature (°C)	18.00
Volume Leachant (Litres)	0.897

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.093
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	3.52
Dry Matter Content (%)	96.6

Case	
SDG	190111-125
Lab Sample Number(s)	19096784
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH223
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.485
Loss on Ignition (%)	6.31
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	27.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.88
ANC to pH 6 (mol/kg)	0.265
ANC to pH 4 (mol/kg)	0.981

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	11.35
Conductivity (µS/cm)	880
Temperature (°C)	18.00
Volume Leachant (Litres)	0.897

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096786
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	10.50 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.376
Loss on Ignition (%)	1.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.14
ANC to pH 6 (mol/kg)	0.0833
ANC to pH 4 (mol/kg)	0.160

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0014	<0.0005	0.014	<0.005	0.5	2	25
Barium	0.0156	<0.0002	0.156	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000318	<0.0003	0.00318	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00336	<0.003	0.0336	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	230	<4	2300	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	35.2	<2	352	<20	1000	20000	50000
Total Dissolved Solids	635	<5	6350	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	9.03
Conductivity (µS/cm)	856
Temperature (°C)	16.00
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096786
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	10.50 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.376
Loss on Ignition (%)	1.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.14
ANC to pH 6 (mol/kg)	0.0833
ANC to pH 4 (mol/kg)	0.160

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	9.03
Conductivity (µS/cm)	856
Temperature (°C)	16.00
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096787
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.347
Loss on Ignition (%)	0.922
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.02
ANC to pH 6 (mol/kg)	0.0906
ANC to pH 4 (mol/kg)	0.420

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00115	<0.0005	0.0115	<0.005	0.5	2	25
Barium	0.007	<0.0002	0.07	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000456	<0.0003	0.00456	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000431	<0.0004	0.00431	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00202	<0.001	0.0202	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	105	<2	1050	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	17.5	<2	175	<20	1000	20000	50000
Total Dissolved Solids	305	<5	3050	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.44
Conductivity (µS/cm)	425
Temperature (°C)	18.10
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096787
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.347
Loss on Ignition (%)	0.922
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.02
ANC to pH 6 (mol/kg)	0.0906
ANC to pH 4 (mol/kg)	0.420

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.44
Conductivity (µS/cm)	425
Temperature (°C)	18.10
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.9
Dry Matter Content (%)	90.2

Case	
SDG	190111-125
Lab Sample Number(s)	19096788
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.349
Loss on Ignition (%)	1.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.98
ANC to pH 6 (mol/kg)	0.171
ANC to pH 4 (mol/kg)	0.457

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00287	<0.0005	0.0287	<0.005	0.5	2	25
Barium	0.00347	<0.0002	0.0347	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000576	<0.0003	0.00576	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00404	<0.003	0.0404	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0016	<0.001	0.016	<0.01	0.06	0.7	5
Selenium	0.00248	<0.001	0.0248	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	56.8	<2	568	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	15.9	<2	159	<20	1000	20000	50000
Total Dissolved Solids	204	<5	2040	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	16-Jan-2019
pH (pH Units)	9.38
Conductivity (µS/cm)	259
Temperature (°C)	16.90
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.9
Dry Matter Content (%)	90.2

Case	
SDG	190111-125
Lab Sample Number(s)	19096788
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.349
Loss on Ignition (%)	1.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.98
ANC to pH 6 (mol/kg)	0.171
ANC to pH 4 (mol/kg)	0.457

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	16-Jan-2019
pH (pH Units)	9.38
Conductivity (µS/cm)	259
Temperature (°C)	16.90
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096789
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.750
Loss on Ignition (%)	2.31
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.40
ANC to pH 6 (mol/kg)	0.150
ANC to pH 4 (mol/kg)	0.552

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00305	<0.0005	0.0305	<0.005	0.5	2	25
Barium	0.00473	<0.0002	0.0473	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00114	<0.0003	0.0114	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0196	<0.003	0.196	<0.03	0.5	10	30
Nickel	0.0016	<0.0004	0.016	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00643	<0.001	0.0643	<0.01	0.06	0.7	5
Selenium	0.00217	<0.001	0.0217	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	40.4	<2	404	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	52.5	<2	525	<20	1000	20000	50000
Total Dissolved Solids	266	<5	2660	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.93	<3	59.3	<30	500	800	1000

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	355
Temperature (°C)	17.40
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	14.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	87.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096789
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.750
Loss on Ignition (%)	2.31
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.40
ANC to pH 6 (mol/kg)	0.150
ANC to pH 4 (mol/kg)	0.552

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	355
Temperature (°C)	17.40
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096790
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	-
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.16
Loss on Ignition (%)	-
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.60
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.66
ANC to pH 6 (mol/kg)	0.0673
ANC to pH 4 (mol/kg)	0.435

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.003	<0.0005	0.03	<0.005	0.5	2	25
Barium	0.00454	<0.0002	0.0454	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00135	<0.0003	0.0135	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0349	<0.003	0.349	<0.03	0.5	10	30
Nickel	0.00215	<0.0004	0.0215	<0.004	0.4	10	40
Lead	0.000723	<0.0002	0.00723	<0.002	0.5	10	50
Antimony	0.00835	<0.001	0.0835	<0.01	0.06	0.7	5
Selenium	0.00112	<0.001	0.0112	<0.01	0.1	0.5	7
Zinc	0.00157	<0.001	0.0157	<0.01	4	50	200
Chloride	56.8	<2	568	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	42.8	<2	428	<20	1000	20000	50000
Total Dissolved Solids	279	<5	2790	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.38	<3	93.8	<30	500	800	1000

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.33
Conductivity (µS/cm)	370
Temperature (°C)	17.20
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)	19.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	84.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096790
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	-
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.16
Loss on Ignition (%)	-
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.60
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.66
ANC to pH 6 (mol/kg)	0.0673
ANC to pH 4 (mol/kg)	0.435

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.33
Conductivity (µS/cm)	370
Temperature (°C)	17.20
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096791
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.10
Loss on Ignition (%)	3.09
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.24
ANC to pH 6 (mol/kg)	0.0564
ANC to pH 4 (mol/kg)	0.144

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00308	<0.0005	0.0308	<0.005	0.5	2	25
Barium	0.00973	<0.0002	0.0973	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00129	<0.0003	0.0129	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0318	<0.003	0.318	<0.03	0.5	10	30
Nickel	0.0015	<0.0004	0.015	<0.004	0.4	10	40
Lead	0.000242	<0.0002	0.00242	<0.002	0.5	10	50
Antimony	0.0055	<0.001	0.055	<0.01	0.06	0.7	5
Selenium	0.00117	<0.001	0.0117	<0.01	0.1	0.5	7
Zinc	0.00239	<0.001	0.0239	<0.01	4	50	200
Chloride	65	<2	650	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	87.7	<2	877	<20	1000	20000	50000
Total Dissolved Solids	384	<5	3840	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.69	<3	66.9	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.99
Conductivity (µS/cm)	522
Temperature (°C)	16.70
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.104	Natural Moisture Content (%)	14.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	87.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096791
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.10
Loss on Ignition (%)	3.09
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.24
ANC to pH 6 (mol/kg)	0.0564
ANC to pH 4 (mol/kg)	0.144

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.99
Conductivity (µS/cm)	522
Temperature (°C)	16.70
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.3
Dry Matter Content (%)	90.7

Case	
SDG	190111-125
Lab Sample Number(s)	19096793
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.495
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2670
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	10.56
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	0.956

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0385	<0.0002	0.385	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00089	<0.0003	0.0089	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00462	<0.003	0.0462	<0.03	0.5	10	30
Nickel	0.000427	<0.0004	0.00427	<0.004	0.4	10	40
Lead	0.000277	<0.0002	0.00277	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00147	<0.001	0.0147	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	11.6	<2	116	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.4	<2	404	<20	1000	20000	50000
Total Dissolved Solids	269	<5	2690	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4	<3	40	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	1.99
Conductivity (µS/cm)	438
Temperature (°C)	14.00
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.7
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096793
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.495
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2670
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	10.56
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	0.956

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	1.99
Conductivity (µS/cm)	438
Temperature (°C)	14.00
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096795
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.45
Loss on Ignition (%)	5.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.9
PAH Sum of 17 (mg/kg)	24.8
pH (pH Units)	8.76
ANC to pH 6 (mol/kg)	0.201
ANC to pH 4 (mol/kg)	0.724

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0599	<0.0005	0.599	<0.005	0.5	2	25
Barium	0.0234	<0.0002	0.234	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0168	<0.001	0.168	<0.01	0.5	10	70
Copper	0.00526	<0.0003	0.0526	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00657	<0.003	0.0657	<0.03	0.5	10	30
Nickel	0.000713	<0.0004	0.00713	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00148	<0.001	0.0148	<0.01	0.06	0.7	5
Selenium	0.0018	<0.001	0.018	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	3.2	<2	32	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	470	<10	4700	<100	1000	20000	50000
Total Dissolved Solids	661	<5	6610	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.28	<3	42.8	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	9.05
Conductivity (µS/cm)	889
Temperature (°C)	17.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096795
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.45
Loss on Ignition (%)	5.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.9
PAH Sum of 17 (mg/kg)	24.8
pH (pH Units)	8.76
ANC to pH 6 (mol/kg)	0.201
ANC to pH 4 (mol/kg)	0.724

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	9.05
Conductivity (µS/cm)	889
Temperature (°C)	17.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.46
Dry Matter Content (%)	92.2

Case	
SDG	190111-125
Lab Sample Number(s)	19096796
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.38
Loss on Ignition (%)	1.92
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.0228
Mineral Oil (mg/kg)	49.5
PAH Sum of 17 (mg/kg)	17.7
pH (pH Units)	9.31
ANC to pH 6 (mol/kg)	0.133
ANC to pH 4 (mol/kg)	0.700

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0343	<0.0005	0.343	<0.005	0.5	2	25
Barium	0.0246	<0.0002	0.246	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0211	<0.001	0.211	<0.01	0.5	10	70
Copper	0.00641	<0.0003	0.0641	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00844	<0.003	0.0844	<0.03	0.5	10	30
Nickel	0.000647	<0.0004	0.00647	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00122	<0.001	0.0122	<0.01	0.06	0.7	5
Selenium	0.00269	<0.001	0.0269	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	2.8	<2	28	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	588	<10	5880	<100	1000	20000	50000
Total Dissolved Solids	758	<5	7580	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.52
Conductivity (µS/cm)	1040
Temperature (°C)	17.60
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.46
Dry Matter Content (%)	92.2

Case	
SDG	190111-125
Lab Sample Number(s)	19096796
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.38
Loss on Ignition (%)	1.92
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.0228
Mineral Oil (mg/kg)	49.5
PAH Sum of 17 (mg/kg)	17.7
pH (pH Units)	9.31
ANC to pH 6 (mol/kg)	0.133
ANC to pH 4 (mol/kg)	0.700

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.52
Conductivity (µS/cm)	1040
Temperature (°C)	17.60
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.04
Dry Matter Content (%)	94.3

Case	
SDG	190111-125
Lab Sample Number(s)	19096797
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.648
Loss on Ignition (%)	3.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.201
ANC to pH 4 (mol/kg)	1.66

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000563	<0.0005	0.00563	<0.005	0.5	2	25
Barium	0.0438	<0.0002	0.438	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00057	<0.0003	0.0057	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0232	<0.003	0.232	<0.03	0.5	10	30
Nickel	0.00102	<0.0004	0.0102	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00224	<0.001	0.0224	<0.01	0.06	0.7	5
Selenium	0.0283	<0.001	0.283	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	139	<2	1390	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	50.4	<2	504	<20	1000	20000	50000
Total Dissolved Solids	395	<5	3950	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.18	<3	31.8	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	538
Temperature (°C)	18.20
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.04
Dry Matter Content (%)	94.3

Case	
SDG	190111-125
Lab Sample Number(s)	19096797
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.648
Loss on Ignition (%)	3.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.201
ANC to pH 4 (mol/kg)	1.66

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	538
Temperature (°C)	18.20
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.05
Dry Matter Content (%)	91.7

Case	
SDG	190111-125
Lab Sample Number(s)	19096798
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.813
Loss on Ignition (%)	1.43
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.40
ANC to pH 6 (mol/kg)	0.154
ANC to pH 4 (mol/kg)	1.45

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0409	<0.0002	0.409	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0239	<0.003	0.239	<0.03	0.5	10	30
Nickel	0.00124	<0.0004	0.0124	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00229	<0.001	0.0229	<0.01	0.06	0.7	5
Selenium	0.0334	<0.001	0.334	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	157	<2	1570	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.4	<2	544	<20	1000	20000	50000
Total Dissolved Solids	458	<5	4580	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	620
Temperature (°C)	16.60
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	9.05
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.7
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096798
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.813
Loss on Ignition (%)	1.43
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.40
ANC to pH 6 (mol/kg)	0.154
ANC to pH 4 (mol/kg)	1.45

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	620
Temperature (°C)	16.60
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.65
Dry Matter Content (%)	91.2

Case	
SDG	190111-125
Lab Sample Number(s)	19096800
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.782
Loss on Ignition (%)	1.90
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.14
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.47
ANC to pH 6 (mol/kg)	0.181
ANC to pH 4 (mol/kg)	1.44

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0517	<0.0002	0.517	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000965	<0.0003	0.00965	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0221	<0.003	0.221	<0.03	0.5	10	30
Nickel	0.000993	<0.0004	0.00993	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00258	<0.001	0.0258	<0.01	0.06	0.7	5
Selenium	0.034	<0.001	0.34	<0.01	0.1	0.5	7
Zinc	0.00266	<0.001	0.0266	<0.01	4	50	200
Chloride	190	<4	1900	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.3	<2	563	<20	1000	20000	50000
Total Dissolved Solids	567	<5	5670	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.65
Conductivity (µS/cm)	727
Temperature (°C)	14.40
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.65
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.2
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096800
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH219
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.782
Loss on Ignition (%)	1.90
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.14
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.47
ANC to pH 6 (mol/kg)	0.181
ANC to pH 4 (mol/kg)	1.44

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.65
Conductivity (µS/cm)	727
Temperature (°C)	14.40
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.60
Dry Matter Content (%)	94.7

Case	
SDG	190111-125
Lab Sample Number(s)	19096802
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.766
Loss on Ignition (%)	1.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.53
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.344
ANC to pH 4 (mol/kg)	1.65

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000571	<0.0005	0.00571	<0.005	0.5	2	25
Barium	0.0322	<0.0002	0.322	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000848	<0.0003	0.00848	<0.003	2	50	100
Mercury Dissolved (C ₂ VAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.022	<0.003	0.22	<0.03	0.5	10	30
Nickel	0.00107	<0.0004	0.0107	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00269	<0.001	0.0269	<0.01	0.06	0.7	5
Selenium	0.0332	<0.001	0.332	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	102	<2	1020	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	42.7	<2	427	<20	1000	20000	50000
Total Dissolved Solids	325	<5	3250	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.28
Conductivity (µS/cm)	440
Temperature (°C)	16.80
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.095	Natural Moisture Content (%)	5.60
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	94.7
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096802
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.766
Loss on Ignition (%)	1.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.53
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.344
ANC to pH 4 (mol/kg)	1.65

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.28
Conductivity (µS/cm)	440
Temperature (°C)	16.80
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.49
Dry Matter Content (%)	94.8

Case	
SDG	190111-125
Lab Sample Number(s)	19096803
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	13.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.684
Loss on Ignition (%)	2.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.35
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.69
ANC to pH 6 (mol/kg)	0.255
ANC to pH 4 (mol/kg)	1.38

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000597	<0.0005	0.00597	<0.005	0.5	2	25
Barium	0.0388	<0.0002	0.388	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00105	<0.0003	0.0105	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.024	<0.003	0.24	<0.03	0.5	10	30
Nickel	0.000918	<0.0004	0.00918	<0.004	0.4	10	40
Lead	0.000302	<0.0002	0.00302	<0.002	0.5	10	50
Antimony	0.00281	<0.001	0.0281	<0.01	0.06	0.7	5
Selenium	0.0323	<0.001	0.323	<0.01	0.1	0.5	7
Zinc	0.00204	<0.001	0.0204	<0.01	4	50	200
Chloride	118	<2	1180	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	46.2	<2	462	<20	1000	20000	50000
Total Dissolved Solids	362	<5	3620	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	6.59
Conductivity (µS/cm)	483
Temperature (°C)	18.00
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.49
Dry Matter Content (%)	94.8

Case	
SDG	190111-125
Lab Sample Number(s)	19096803
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	13.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.684
Loss on Ignition (%)	2.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.35
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.69
ANC to pH 6 (mol/kg)	0.255
ANC to pH 4 (mol/kg)	1.38

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	6.59
Conductivity (µS/cm)	483
Temperature (°C)	18.00
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096807
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.295
Loss on Ignition (%)	2.30
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.22
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.365

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00113	<0.0005	0.0113	<0.005	0.5	2	25
Barium	0.0641	<0.0002	0.641	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000417	<0.0003	0.00417	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00749	<0.003	0.0749	<0.03	0.5	10	30
Nickel	0.000507	<0.0004	0.00507	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00211	<0.001	0.0211	<0.01	0.06	0.7	5
Selenium	0.0196	<0.001	0.196	<0.01	0.1	0.5	7
Zinc	0.00124	<0.001	0.0124	<0.01	4	50	200
Chloride	130	<2	1300	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25.6	<2	256	<20	1000	20000	50000
Total Dissolved Solids	367	<5	3670	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	16-Jan-2019
pH (pH Units)	7.14
Conductivity (µS/cm)	496
Temperature (°C)	17.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096807
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.295
Loss on Ignition (%)	2.30
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.22
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.365

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	16-Jan-2019
pH (pH Units)	7.14
Conductivity (µS/cm)	496
Temperature (°C)	17.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096808
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.297
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.44
ANC to pH 6 (mol/kg)	0.0921
ANC to pH 4 (mol/kg)	0.353

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00165	<0.0005	0.0165	<0.005	0.5	2	25
Barium	0.00603	<0.0002	0.0603	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00175	<0.001	0.0175	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	76.9	<2	769	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.7	<2	127	<20	1000	20000	50000
Total Dissolved Solids	236	<5	2360	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.61
Conductivity (µS/cm)	322
Temperature (°C)	18.70
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096808
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.297
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.44
ANC to pH 6 (mol/kg)	0.0921
ANC to pH 4 (mol/kg)	0.353

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.61
Conductivity (µS/cm)	322
Temperature (°C)	18.70
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096809
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	7.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.382
Loss on Ignition (%)	1.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.04
ANC to pH 6 (mol/kg)	0.109
ANC to pH 4 (mol/kg)	0.324

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00482	<0.0005	0.0482	<0.005	0.5	2	25
Barium	0.0115	<0.0002	0.115	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000398	<0.0003	0.00398	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00355	<0.003	0.0355	<0.03	0.5	10	30
Nickel	0.000553	<0.0004	0.00553	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00545	<0.001	0.0545	<0.01	0.06	0.7	5
Selenium	0.00405	<0.001	0.0405	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	24.1	<2	241	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	15.3	<2	153	<20	1000	20000	50000
Total Dissolved Solids	138	<5	1380	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.89
Conductivity (µS/cm)	176
Temperature (°C)	14.70
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096809
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	7.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.382
Loss on Ignition (%)	1.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.04
ANC to pH 6 (mol/kg)	0.109
ANC to pH 4 (mol/kg)	0.324

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.89
Conductivity (µS/cm)	176
Temperature (°C)	14.70
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096810
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.250
Loss on Ignition (%)	0.929
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.97
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.124
ANC to pH 4 (mol/kg)	0.480

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00279	<0.0005	0.0279	<0.005	0.5	2	25
Barium	0.00533	<0.0002	0.0533	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000585	<0.0003	0.00585	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00763	<0.003	0.0763	<0.03	0.5	10	30
Nickel	0.000899	<0.0004	0.00899	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00414	<0.001	0.0414	<0.01	0.06	0.7	5
Selenium	0.00144	<0.001	0.0144	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	4.6	<2	46	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	30.3	<2	303	<20	1000	20000	50000
Total Dissolved Solids	123	<5	1230	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	156
Temperature (°C)	18.40
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096810
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.250
Loss on Ignition (%)	0.929
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.97
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.27
ANC to pH 6 (mol/kg)	0.124
ANC to pH 4 (mol/kg)	0.480

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.64
Conductivity (µS/cm)	156
Temperature (°C)	18.40
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096812
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.31
Loss on Ignition (%)	2.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.8
PAH Sum of 17 (mg/kg)	29.1
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0679
ANC to pH 4 (mol/kg)	0.331

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00229	<0.0005	0.0229	<0.005	0.5	2	25
Barium	0.00789	<0.0002	0.0789	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00044	<0.0003	0.0044	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0304	<0.003	0.304	<0.03	0.5	10	30
Nickel	0.00135	<0.0004	0.0135	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00454	<0.001	0.0454	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0018	<0.001	0.018	<0.01	4	50	200
Chloride	6.2	<2	62	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	16.5	<2	165	<20	1000	20000	50000
Total Dissolved Solids	121	<5	1210	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.15	<3	71.5	<30	500	800	1000

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	148
Temperature (°C)	16.10
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096812
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.31
Loss on Ignition (%)	2.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.8
PAH Sum of 17 (mg/kg)	29.1
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0679
ANC to pH 4 (mol/kg)	0.331

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	148
Temperature (°C)	16.10
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096814
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.74
Loss on Ignition (%)	5.92
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.63
ANC to pH 6 (mol/kg)	0.169
ANC to pH 4 (mol/kg)	0.589

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00162	<0.0005	0.0162	<0.005	0.5	2	25
Barium	0.00743	<0.0002	0.0743	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00272	<0.0003	0.0272	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0337	<0.003	0.337	<0.03	0.5	10	30
Nickel	0.0016	<0.0004	0.016	<0.004	0.4	10	40
Lead	0.000219	<0.0002	0.00219	<0.002	0.5	10	50
Antimony	0.00407	<0.001	0.0407	<0.01	0.06	0.7	5
Selenium	0.00117	<0.001	0.0117	<0.01	0.1	0.5	7
Zinc	0.00322	<0.001	0.0322	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	123	<2	1230	<20	1000	20000	50000
Total Dissolved Solids	267	<5	2670	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.67	<3	46.7	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.07
Conductivity (µS/cm)	347
Temperature (°C)	16.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096814
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.74
Loss on Ignition (%)	5.92
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.63
ANC to pH 6 (mol/kg)	0.169
ANC to pH 4 (mol/kg)	0.589

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.07
Conductivity (µS/cm)	347
Temperature (°C)	16.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096815
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.11
Loss on Ignition (%)	4.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.77
ANC to pH 6 (mol/kg)	0.0470
ANC to pH 4 (mol/kg)	0.320

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0021	<0.0005	0.021	<0.005	0.5	2	25
Barium	0.00836	<0.0002	0.0836	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00196	<0.0003	0.0196	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0217	<0.003	0.217	<0.03	0.5	10	30
Nickel	0.00118	<0.0004	0.0118	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00463	<0.001	0.0463	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00123	<0.001	0.0123	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	58.5	<2	585	<20	1000	20000	50000
Total Dissolved Solids	188	<5	1880	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.2	<3	52	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.33
Conductivity (µS/cm)	252
Temperature (°C)	17.50
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.108
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	20.5
Dry Matter Content (%)	83.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096815
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.11
Loss on Ignition (%)	4.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.77
ANC to pH 6 (mol/kg)	0.0470
ANC to pH 4 (mol/kg)	0.320

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.33
Conductivity (µS/cm)	252
Temperature (°C)	17.50
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096817
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.17
Loss on Ignition (%)	3.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	120
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.127
ANC to pH 4 (mol/kg)	0.734

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00239	<0.0005	0.0239	<0.005	0.5	2	25
Barium	0.0134	<0.0002	0.134	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00455	<0.0003	0.0455	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0163	<0.003	0.163	<0.03	0.5	10	30
Nickel	0.00108	<0.0004	0.0108	<0.004	0.4	10	40
Lead	0.000233	<0.0002	0.00233	<0.002	0.5	10	50
Antimony	0.00306	<0.001	0.0306	<0.01	0.06	0.7	5
Selenium	0.00103	<0.001	0.0103	<0.01	0.1	0.5	7
Zinc	0.00381	<0.001	0.0381	<0.01	4	50	200
Chloride	7.8	<2	78	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25.3	<2	253	<20	1000	20000	50000
Total Dissolved Solids	137	<5	1370	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.58	<3	45.8	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.15
Conductivity (µS/cm)	185
Temperature (°C)	18.00
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096817
Sampled Date	09-Jan-2019
Customer Sample Ref.	BH222
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.17
Loss on Ignition (%)	3.82
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	120
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.127
ANC to pH 4 (mol/kg)	0.734

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.15
Conductivity (µS/cm)	185
Temperature (°C)	18.00
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.6
Dry Matter Content (%)	90.4

Case	
SDG	190111-125
Lab Sample Number(s)	19096834
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.832
Loss on Ignition (%)	2.49
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.155
ANC to pH 4 (mol/kg)	1.81

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0431	<0.0002	0.431	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0005	<0.0003	0.005	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.021	<0.003	0.21	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00218	<0.001	0.0218	<0.01	0.06	0.7	5
Selenium	0.0275	<0.001	0.275	<0.01	0.1	0.5	7
Zinc	0.00118	<0.001	0.0118	<0.01	4	50	200
Chloride	127	<2	1270	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40	<2	400	<20	1000	20000	50000
Total Dissolved Solids	353	<5	3530	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.59
Conductivity (µS/cm)	490
Temperature (°C)	17.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.4
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096834
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.832
Loss on Ignition (%)	2.49
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.35
ANC to pH 6 (mol/kg)	0.155
ANC to pH 4 (mol/kg)	1.81

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.59
Conductivity (µS/cm)	490
Temperature (°C)	17.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.61
Dry Matter Content (%)	93.8

Case	
SDG	190111-125
Lab Sample Number(s)	19096835
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.541
Loss on Ignition (%)	9.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.167
ANC to pH 4 (mol/kg)	1.22

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0471	<0.0002	0.471	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0209	<0.003	0.209	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00222	<0.001	0.0222	<0.01	0.06	0.7	5
Selenium	0.0291	<0.001	0.291	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	141	<2	1410	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.1	<2	411	<20	1000	20000	50000
Total Dissolved Solids	385	<5	3850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.46	<3	34.6	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	532
Temperature (°C)	17.60
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.61
Dry Matter Content (%)	93.8

Case	
SDG	190111-125
Lab Sample Number(s)	19096835
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.541
Loss on Ignition (%)	9.46
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	35.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.167
ANC to pH 4 (mol/kg)	1.22

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.73
Conductivity (µS/cm)	532
Temperature (°C)	17.60
Volume Leachant (Litres)	0.894

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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.16
Dry Matter Content (%)	94.2

Case	
SDG	190111-125
Lab Sample Number(s)	19096836
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	13.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	1.69
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.23
ANC to pH 6 (mol/kg)	0.263
ANC to pH 4 (mol/kg)	2.08

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.043	<0.0002	0.43	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0201	<0.003	0.201	<0.03	0.5	10	30
Nickel	0.00114	<0.0004	0.0114	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00242	<0.001	0.0242	<0.01	0.06	0.7	5
Selenium	0.026	<0.001	0.26	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	119	<2	1190	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	35.1	<2	351	<20	1000	20000	50000
Total Dissolved Solids	342	<5	3420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.82	<3	38.2	<30	500	800	1000

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	455
Temperature (°C)	17.90
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.16
Dry Matter Content (%)	94.2

Case	
SDG	190111-125
Lab Sample Number(s)	19096836
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	13.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	<0.200
Loss on Ignition (%)	1.69
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.23
ANC to pH 6 (mol/kg)	0.263
ANC to pH 4 (mol/kg)	2.08

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	455
Temperature (°C)	17.90
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096838
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.394
Loss on Ignition (%)	0.998
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.96
ANC to pH 6 (mol/kg)	0.178
ANC to pH 4 (mol/kg)	0.415

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000963	<0.0005	0.00963	<0.005	0.5	2	25
Barium	0.0167	<0.0002	0.167	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000306	<0.0003	0.00306	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00324	<0.003	0.0324	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0014	<0.001	0.014	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	117	<2	1170	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	18.7	<2	187	<20	1000	20000	50000
Total Dissolved Solids	338	<5	3380	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.49
Conductivity (µS/cm)	464
Temperature (°C)	18.10
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096838
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.394
Loss on Ignition (%)	0.998
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.96
ANC to pH 6 (mol/kg)	0.178
ANC to pH 4 (mol/kg)	0.415

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.49
Conductivity (µS/cm)	464
Temperature (°C)	18.10
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096839
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	9.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.420
Loss on Ignition (%)	4.73
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.06
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.431

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000714	<0.0005	0.00714	<0.005	0.5	2	25
Barium	0.00425	<0.0002	0.0425	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00307	<0.003	0.0307	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0023	<0.001	0.023	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	87.8	<2	878	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	14.4	<2	144	<20	1000	20000	50000
Total Dissolved Solids	269	<5	2690	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	9.66
Conductivity (µS/cm)	334
Temperature (°C)	14.80
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096839
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	9.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.420
Loss on Ignition (%)	4.73
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.06
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.431

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	9.66
Conductivity (µS/cm)	334
Temperature (°C)	14.80
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.4
Dry Matter Content (%)	90.6

Case	
SDG	190111-125
Lab Sample Number(s)	19096842
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.318
Loss on Ignition (%)	1.63
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	79.9
PAH Sum of 17 (mg/kg)	51.3
pH (pH Units)	8.90
ANC to pH 6 (mol/kg)	0.115
ANC to pH 4 (mol/kg)	0.473

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0043	<0.0005	0.043	<0.005	0.5	2	25
Barium	0.00482	<0.0002	0.0482	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00197	<0.0003	0.0197	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0188	<0.003	0.188	<0.03	0.5	10	30
Nickel	0.00113	<0.0004	0.0113	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0043	<0.001	0.043	<0.01	0.06	0.7	5
Selenium	0.00147	<0.001	0.0147	<0.01	0.1	0.5	7
Zinc	0.0011	<0.001	0.011	<0.01	4	50	200
Chloride	25.4	<2	254	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.1	<2	121	<20	1000	20000	50000
Total Dissolved Solids	126	<5	1260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.54	<3	35.4	<30	500	800	1000

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	167
Temperature (°C)	17.90
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.6
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096842
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.318
Loss on Ignition (%)	1.63
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	79.9
PAH Sum of 17 (mg/kg)	51.3
pH (pH Units)	8.90
ANC to pH 6 (mol/kg)	0.115
ANC to pH 4 (mol/kg)	0.473

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.27
Conductivity (µS/cm)	167
Temperature (°C)	17.90
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096843
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.82
Loss on Ignition (%)	2.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	141
PAH Sum of 17 (mg/kg)	67.4
pH (pH Units)	8.32
ANC to pH 6 (mol/kg)	0.0483
ANC to pH 4 (mol/kg)	0.213

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00303	<0.0005	0.0303	<0.005	0.5	2	25
Barium	0.0152	<0.0002	0.152	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00166	<0.0003	0.0166	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0293	<0.003	0.293	<0.03	0.5	10	30
Nickel	0.00122	<0.0004	0.0122	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0109	<0.001	0.109	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00281	<0.001	0.0281	<0.01	4	50	200
Chloride	20	<2	200	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	30	<2	300	<20	1000	20000	50000
Total Dissolved Solids	182	<5	1820	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.04	<0.016	0.4	<0.16	1	-	-
Dissolved Organic Carbon	8.08	<3	80.8	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.00
Conductivity (µS/cm)	243
Temperature (°C)	17.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096843
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.82
Loss on Ignition (%)	2.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	141
PAH Sum of 17 (mg/kg)	67.4
pH (pH Units)	8.32
ANC to pH 6 (mol/kg)	0.0483
ANC to pH 4 (mol/kg)	0.213

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.00
Conductivity (µS/cm)	243
Temperature (°C)	17.30
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096845
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.567
Loss on Ignition (%)	4.02
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	528
PAH Sum of 17 (mg/kg)	420
pH (pH Units)	8.74
ANC to pH 6 (mol/kg)	0.143
ANC to pH 4 (mol/kg)	0.719

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00906	<0.0005	0.0906	<0.005	0.5	2	25
Barium	0.0119	<0.0002	0.119	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00393	<0.003	0.0393	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00238	<0.001	0.0238	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	7.8	<2	78	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25.7	<2	257	<20	1000	20000	50000
Total Dissolved Solids	97.2	<5	972	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.01	<3	50.1	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.91
Conductivity (µS/cm)	123
Temperature (°C)	18.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096845
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.567
Loss on Ignition (%)	4.02
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	528
PAH Sum of 17 (mg/kg)	420
pH (pH Units)	8.74
ANC to pH 6 (mol/kg)	0.143
ANC to pH 4 (mol/kg)	0.719

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.91
Conductivity (µS/cm)	123
Temperature (°C)	18.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096846
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.761
Loss on Ignition (%)	3.05
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	659
PAH Sum of 17 (mg/kg)	406
pH (pH Units)	8.93
ANC to pH 6 (mol/kg)	0.0693
ANC to pH 4 (mol/kg)	0.233

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0161	<0.0005	0.161	<0.005	0.5	2	25
Barium	0.0139	<0.0002	0.139	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00143	<0.001	0.0143	<0.01	0.5	10	70
Copper	0.000764	<0.0003	0.00764	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00679	<0.003	0.0679	<0.03	0.5	10	30
Nickel	0.000409	<0.0004	0.00409	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00207	<0.001	0.0207	<0.01	0.06	0.7	5
Selenium	0.00123	<0.001	0.0123	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	20.9	<2	209	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37	<2	370	<20	1000	20000	50000
Total Dissolved Solids	141	<5	1410	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.5	<3	55	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	9.27
Conductivity (µS/cm)	184
Temperature (°C)	15.40
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096846
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.761
Loss on Ignition (%)	3.05
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	659
PAH Sum of 17 (mg/kg)	406
pH (pH Units)	8.93
ANC to pH 6 (mol/kg)	0.0693
ANC to pH 4 (mol/kg)	0.233

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	9.27
Conductivity (µS/cm)	184
Temperature (°C)	15.40
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096847
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.37
Loss on Ignition (%)	4.44
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	51.4
PAH Sum of 17 (mg/kg)	13.6
pH (pH Units)	11.23
ANC to pH 6 (mol/kg)	0.122
ANC to pH 4 (mol/kg)	0.552

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0122	<0.0005	0.122	<0.005	0.5	2	25
Barium	0.0131	<0.0002	0.131	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0241	<0.001	0.241	<0.01	0.5	10	70
Copper	0.1	<0.0003	1	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0226	<0.003	0.226	<0.03	0.5	10	30
Nickel	0.00182	<0.0004	0.0182	<0.004	0.4	10	40
Lead	0.00201	<0.0002	0.0201	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00221	<0.001	0.0221	<0.01	0.1	0.5	7
Zinc	0.00594	<0.001	0.0594	<0.01	4	50	200
Chloride	24.8	<2	248	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	200	<2	2000	<20	1000	20000	50000
Total Dissolved Solids	639	<5	6390	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.61	<3	86.1	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	11.42
Conductivity (µS/cm)	888
Temperature (°C)	18.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096847
Sampled Date	08-Jan-2019
Customer Sample Ref.	BH224
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.37
Loss on Ignition (%)	4.44
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	51.4
PAH Sum of 17 (mg/kg)	13.6
pH (pH Units)	11.23
ANC to pH 6 (mol/kg)	0.122
ANC to pH 4 (mol/kg)	0.552

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	11.42
Conductivity (µS/cm)	888
Temperature (°C)	18.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096850
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.33
Loss on Ignition (%)	2.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.0570
ANC to pH 4 (mol/kg)	0.357

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00812	<0.0005	0.0812	<0.005	0.5	2	25
Barium	0.00485	<0.0002	0.0485	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00103	<0.001	0.0103	<0.01	0.5	10	70
Copper	0.0158	<0.0003	0.158	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.022	<0.003	0.22	<0.03	0.5	10	30
Nickel	0.0017	<0.0004	0.017	<0.004	0.4	10	40
Lead	0.000955	<0.0002	0.00955	<0.002	0.5	10	50
Antimony	0.00478	<0.001	0.0478	<0.01	0.06	0.7	5
Selenium	0.00261	<0.001	0.0261	<0.01	0.1	0.5	7
Zinc	0.00124	<0.001	0.0124	<0.01	4	50	200
Chloride	20.9	<2	209	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36.5	<2	365	<20	1000	20000	50000
Total Dissolved Solids	139	<5	1390	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.59	<3	65.9	<30	500	800	1000

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.74
Conductivity (µS/cm)	179
Temperature (°C)	17.80
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096850
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.33
Loss on Ignition (%)	2.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.53
ANC to pH 6 (mol/kg)	0.0570
ANC to pH 4 (mol/kg)	0.357

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	8.74
Conductivity (µS/cm)	179
Temperature (°C)	17.80
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096851
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	3.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.08
ANC to pH 6 (mol/kg)	0.0581
ANC to pH 4 (mol/kg)	0.398

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00171	<0.0005	0.0171	<0.005	0.5	2	25
Barium	0.00451	<0.0002	0.0451	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00287	<0.0003	0.0287	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0132	<0.003	0.132	<0.03	0.5	10	30
Nickel	0.0019	<0.0004	0.019	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00246	<0.001	0.0246	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	9.6	<2	96	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25	<2	250	<20	1000	20000	50000
Total Dissolved Solids	133	<5	1330	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.76	<3	77.6	<30	500	800	1000

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	7.60
Conductivity (µS/cm)	172
Temperature (°C)	16.80
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.106	Natural Moisture Content (%)	17.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	85.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096851
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	3.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.08
ANC to pH 6 (mol/kg)	0.0581
ANC to pH 4 (mol/kg)	0.398

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	15-Jan-2019
pH (pH Units)	7.60
Conductivity (µS/cm)	172
Temperature (°C)	16.80
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096853
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.98
Loss on Ignition (%)	5.74
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.20
ANC to pH 6 (mol/kg)	0.0972
ANC to pH 4 (mol/kg)	0.356

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00583	<0.0005	0.0583	<0.005	0.5	2	25
Barium	0.003	<0.0002	0.03	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0277	<0.003	0.277	<0.03	0.5	10	30
Nickel	0.001	<0.0004	0.01	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00225	<0.001	0.0225	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	2.8	<2	28	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	7.2	<2	72	<20	1000	20000	50000
Total Dissolved Solids	113	<5	1130	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.77	<3	87.7	<30	500	800	1000

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.03
Conductivity (µS/cm)	148
Temperature (°C)	17.10
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096853
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.98
Loss on Ignition (%)	5.74
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.20
ANC to pH 6 (mol/kg)	0.0972
ANC to pH 4 (mol/kg)	0.356

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	18-Jan-2019
pH (pH Units)	8.03
Conductivity (µS/cm)	148
Temperature (°C)	17.10
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096854
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.69
Loss on Ignition (%)	5.48
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0971
ANC to pH 4 (mol/kg)	0.452

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.004	<0.0005	0.04	<0.005	0.5	2	25
Barium	0.0075	<0.0002	0.075	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0234	<0.003	0.234	<0.03	0.5	10	30
Nickel	0.00139	<0.0004	0.0139	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00153	<0.001	0.0153	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00153	<0.001	0.0153	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	73.4	<2	734	<20	1000	20000	50000
Total Dissolved Solids	232	<5	2320	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.1	<3	101	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.19
Conductivity (µS/cm)	310
Temperature (°C)	16.20
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096854
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.69
Loss on Ignition (%)	5.48
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0971
ANC to pH 4 (mol/kg)	0.452

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.19
Conductivity (µS/cm)	310
Temperature (°C)	16.20
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096857
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.25
Loss on Ignition (%)	2.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.0611
ANC to pH 4 (mol/kg)	<0.0300

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00212	<0.0005	0.0212	<0.005	0.5	2	25
Barium	0.00458	<0.0002	0.0458	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00176	<0.0003	0.0176	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0251	<0.003	0.251	<0.03	0.5	10	30
Nickel	0.00149	<0.0004	0.0149	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00441	<0.001	0.0441	<0.01	0.06	0.7	5
Selenium	0.00104	<0.001	0.0104	<0.01	0.1	0.5	7
Zinc	0.00113	<0.001	0.0113	<0.01	4	50	200
Chloride	7.1	<2	71	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	57.5	<2	575	<20	1000	20000	50000
Total Dissolved Solids	217	<5	2170	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.84	<3	58.4	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.73
Conductivity (µS/cm)	279
Temperature (°C)	16.50
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096857
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.25
Loss on Ignition (%)	2.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.0611
ANC to pH 4 (mol/kg)	<0.0300

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	7.73
Conductivity (µS/cm)	279
Temperature (°C)	16.50
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.77
Dry Matter Content (%)	91.1

Case	
SDG	190111-125
Lab Sample Number(s)	19096860
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.16
Loss on Ignition (%)	1.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.93
ANC to pH 6 (mol/kg)	0.138
ANC to pH 4 (mol/kg)	0.343

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00148	<0.0005	0.0148	<0.005	0.5	2	25
Barium	0.00841	<0.0002	0.0841	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00142	<0.0003	0.0142	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00756	<0.003	0.0756	<0.03	0.5	10	30
Nickel	0.00107	<0.0004	0.0107	<0.004	0.4	10	40
Lead	0.000693	<0.0002	0.00693	<0.002	0.5	10	50
Antimony	0.00166	<0.001	0.0166	<0.01	0.06	0.7	5
Selenium	0.00149	<0.001	0.0149	<0.01	0.1	0.5	7
Zinc	0.00173	<0.001	0.0173	<0.01	4	50	200
Chloride	71.1	<2	711	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	35.1	<2	351	<20	1000	20000	50000
Total Dissolved Solids	281	<5	2810	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.6	<3	36	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.79
Conductivity (µS/cm)	378
Temperature (°C)	17.60
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.77
Dry Matter Content (%)	91.1

Case	
SDG	190111-125
Lab Sample Number(s)	19096860
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.16
Loss on Ignition (%)	1.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.93
ANC to pH 6 (mol/kg)	0.138
ANC to pH 4 (mol/kg)	0.343

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.79
Conductivity (µS/cm)	378
Temperature (°C)	17.60
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096861
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.62
Loss on Ignition (%)	1.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.80
ANC to pH 6 (mol/kg)	0.202
ANC to pH 4 (mol/kg)	1.10

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00106	<0.0005	0.0106	<0.005	0.5	2	25
Barium	0.0199	<0.0002	0.199	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000377	<0.0003	0.00377	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00504	<0.003	0.0504	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	182	<2	1820	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	32.8	<2	328	<20	1000	20000	50000
Total Dissolved Solids	534	<5	5340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.8	<3	38	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.40
Conductivity (µS/cm)	719
Temperature (°C)	17.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096861
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.62
Loss on Ignition (%)	1.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.80
ANC to pH 6 (mol/kg)	0.202
ANC to pH 4 (mol/kg)	1.10

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.40
Conductivity (µS/cm)	719
Temperature (°C)	17.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096863
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.642
Loss on Ignition (%)	2.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.55
ANC to pH 6 (mol/kg)	0.189
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00067	<0.0005	0.0067	<0.005	0.5	2	25
Barium	0.0521	<0.0002	0.521	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000601	<0.0003	0.00601	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0163	<0.003	0.163	<0.03	0.5	10	30
Nickel	0.00108	<0.0004	0.0108	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00315	<0.001	0.0315	<0.01	0.06	0.7	5
Selenium	0.0316	<0.001	0.316	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	231	<4	2310	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.6	<2	456	<20	1000	20000	50000
Total Dissolved Solids	626	<5	6260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.44
Conductivity (µS/cm)	823
Temperature (°C)	16.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096863
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.642
Loss on Ignition (%)	2.96
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.55
ANC to pH 6 (mol/kg)	0.189
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.44
Conductivity (µS/cm)	823
Temperature (°C)	16.30
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096864
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.749
Loss on Ignition (%)	1.66
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.77
ANC to pH 6 (mol/kg)	0.278
ANC to pH 4 (mol/kg)	1.49

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00071	<0.0005	0.0071	<0.005	0.5	2	25
Barium	0.0446	<0.0002	0.446	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0154	<0.003	0.154	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00262	<0.001	0.0262	<0.01	0.06	0.7	5
Selenium	0.028	<0.001	0.28	<0.01	0.1	0.5	7
Zinc	0.00195	<0.001	0.0195	<0.01	4	50	200
Chloride	203	<4	2030	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	46	<2	460	<20	1000	20000	50000
Total Dissolved Solids	578	<5	5780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.04
Conductivity (µS/cm)	789
Temperature (°C)	18.20
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	190111-125
Lab Sample Number(s)	19096864
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.749
Loss on Ignition (%)	1.66
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.77
ANC to pH 6 (mol/kg)	0.278
ANC to pH 4 (mol/kg)	1.49

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	9.04
Conductivity (µS/cm)	789
Temperature (°C)	18.20
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190111-125
Lab Sample Number(s)	19096866
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.630
Loss on Ignition (%)	1.98
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.71
ANC to pH 6 (mol/kg)	0.172
ANC to pH 4 (mol/kg)	1.30

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000513	<0.0005	0.00513	<0.005	0.5	2	25
Barium	0.0423	<0.0002	0.423	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000768	<0.0003	0.00768	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0211	<0.003	0.211	<0.03	0.5	10	30
Nickel	0.00111	<0.0004	0.0111	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00226	<0.001	0.0226	<0.01	0.06	0.7	5
Selenium	0.0271	<0.001	0.271	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	181	<2	1810	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	48.3	<2	483	<20	1000	20000	50000
Total Dissolved Solids	483	<5	4830	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.69
Conductivity (µS/cm)	668
Temperature (°C)	18.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.93
Dry Matter Content (%)	91.8

Case	
SDG	190111-125
Lab Sample Number(s)	19096866
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.630
Loss on Ignition (%)	1.98
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.71
ANC to pH 6 (mol/kg)	0.172
ANC to pH 4 (mol/kg)	1.30

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	17-Jan-2019
pH (pH Units)	8.69
Conductivity (µS/cm)	668
Temperature (°C)	18.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.0
Dry Matter Content (%)	90.9

Case	
SDG	190111-125
Lab Sample Number(s)	19096867
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.760
Loss on Ignition (%)	2.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.22
ANC to pH 6 (mol/kg)	0.182
ANC to pH 4 (mol/kg)	1.86

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0375	<0.0002	0.375	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000898	<0.0003	0.00898	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0271	<0.003	0.271	<0.03	0.5	10	30
Nickel	0.00159	<0.0004	0.0159	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00269	<0.001	0.0269	<0.01	0.06	0.7	5
Selenium	0.0332	<0.001	0.332	<0.01	0.1	0.5	7
Zinc	0.00143	<0.001	0.0143	<0.01	4	50	200
Chloride	188	<2	1880	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	62.2	<2	622	<20	1000	20000	50000
Total Dissolved Solids	521	<5	5210	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.31	<3	33.1	<30	500	800	1000

Leach Test Information

Date Prepared	16-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	724
Temperature (°C)	16.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.9
Particle Size <4mm	>95%		

Case	
SDG	190111-125
Lab Sample Number(s)	19096867
Sampled Date	07-Jan-2019
Customer Sample Ref.	BH218
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.760
Loss on Ignition (%)	2.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	17.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.22
ANC to pH 6 (mol/kg)	0.182
ANC to pH 4 (mol/kg)	1.86

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	16-Jan-2019
pH (pH Units)	8.37
Conductivity (µS/cm)	724
Temperature (°C)	16.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM304	HSE Contract research Report no 83/1996	Asbestos Quantification in Soil: Fibres identified by morphology only
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19096850	19096851	19096853	19096854	19096857	19096860	19096861	19096863	19096864	19096866
	BH218	BH218	BH218	BH218	BH218	BH218	BH218	BH218	BH218	BH218
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	0.00 - 0.50	0.50 - 1.00	2.00 - 3.00	3.00 - 4.00	6.00 - 7.00	9.00 - 10.00	10.00 - 11.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019
Anions by Kone (w)	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Asbestos ID in Solid Samples	15-Jan-2019	15-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	16-Jan-2019	15-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019
CEN 10:1 Leachate (1 Stage)	15-Jan-2019	15-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019
CEN Readings	17-Jan-2019	17-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019
Coronene	16-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	16-Jan-2019	18-Jan-2019
Dissolved Metals by ICP-MS	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Organic/Inorganic Carbon	18-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019
EPH CWG (Aliphatic) GC (S)	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019
EPH CWG (Aromatic) GC (S)	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019
Fluoride	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
GRO by GC-FID (S)	19-Jan-2019	21-Jan-2019	19-Jan-2019		21-Jan-2019	19-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	19-Jan-2019
Hexavalent Chromium (s)	15-Jan-2019	15-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
Loss on Ignition in soils	18-Jan-2019	22-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	22-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
Mercury Dissolved	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Metals in solid samples by OES	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019
Mineral Oil	16-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	16-Jan-2019	17-Jan-2019
PAH 16 & 17 Calc	23-Jan-2019	23-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	23-Jan-2019	17-Jan-2019	18-Jan-2019
PAH by GCMS	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019
PCBs by GCMS	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
pH	15-Jan-2019	15-Jan-2019	16-Jan-2019	16-Jan-2019	17-Jan-2019	17-Jan-2019	15-Jan-2019	15-Jan-2019	16-Jan-2019	16-Jan-2019
Phenols by HPLC (S)	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
Phenols by HPLC (W)	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019
Sample description	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
Total Dissolved Solids	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Total Organic Carbon	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
TPH CWG GC (S)	19-Jan-2019	21-Jan-2019	19-Jan-2019	19-Jan-2019	21-Jan-2019	19-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	19-Jan-2019
VOC MS (S)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	20-Jan-2019	20-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19096867	19096786	19096787	19096788	19096789	19096790	19096791	19096793	19096795	19096796
	BH218	BH219	BH219	BH219	BH219	BH219	BH219	BH219	BH219	BH219
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	16.00 - 17.00	10.50 - 11.00	9.00 - 10.00	8.00 - 9.00	7.00 - 8.00	6.00 - 7.00	5.00 - 6.00	3.00 - 4.00	0.50 - 1.00	0.00 - 0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019
Anions by Kone (w)	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Asbestos ID in Solid Samples	16-Jan-2019	16-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	16-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019
Asbestos Quantification - Full								26-Jan-2019	25-Jan-2019	
CEN 10:1 Leachate (1 Stage)	16-Jan-2019	18-Jan-2019	17-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019
CEN Readings	18-Jan-2019	19-Jan-2019	19-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019
Coronene	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
Dissolved Metals by ICP-MS	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Organic/Inorganic Carbon	22-Jan-2019	21-Jan-2019	22-Jan-2019	22-Jan-2019	18-Jan-2019	21-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019
EPH CWG (Aliphatic) GC (S)	17-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
EPH CWG (Aromatic) GC (S)	17-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Fluoride	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
GRO by GC-FID (S)	19-Jan-2019	21-Jan-2019	19-Jan-2019	19-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	19-Jan-2019	21-Jan-2019	19-Jan-2019
Hexavalent Chromium (s)	15-Jan-2019	17-Jan-2019	16-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	16-Jan-2019	16-Jan-2019	17-Jan-2019
Loss on Ignition in soils	21-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019		21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019
Mercury Dissolved	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Metals in solid samples by OES	21-Jan-2019	18-Jan-2019	21-Jan-2019	17-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	17-Jan-2019	18-Jan-2019	21-Jan-2019
Mineral Oil	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019
PAH 16 & 17 Calc	21-Jan-2019	21-Jan-2019	23-Jan-2019	23-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019
PAH by GCMS	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	17-Jan-2019	21-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019
PCBs by GCMS	21-Jan-2019	21-Jan-2019	21-Jan-2019	17-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	17-Jan-2019	18-Jan-2019	21-Jan-2019
pH	15-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019
Phenols by HPLC (S)	18-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Phenols by HPLC (W)	21-Jan-2019	22-Jan-2019	22-Jan-2019	21-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Sample description	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019	15-Jan-2019	14-Jan-2019
Total Dissolved Solids	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Total Organic Carbon	21-Jan-2019	18-Jan-2019	21-Jan-2019	17-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	17-Jan-2019	21-Jan-2019	21-Jan-2019
TPH CWG GC (S)	19-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
VOC MS (S)	21-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19096797	19096798	19096800	19096802	19096803	19096807	19096808	19096809	19096810	19096812
	BH219	BH219	BH219	BH222	BH222	BH222	BH222	BH222	BH222	BH222
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth	16.00 - 17.00	15.00 - 16.00	13.00 - 14.00	15.00 - 16.00	13.00 - 15.00	10.00 - 11.00	9.00 - 10.00	7.00 - 9.00	6.00 - 7.00	4.00 - 5.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019
Anions by Kone (w)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019
Asbestos ID in Solid Samples	17-Jan-2019	16-Jan-2019	15-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	15-Jan-2019
CEN 10:1 Leachate (1 Stage)	17-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	16-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	15-Jan-2019
CEN Readings	19-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	17-Jan-2019
Coronene	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019
Dissolved Metals by ICP-MS	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Organic/Inorganic Carbon	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019
EPH CWG (Aliphatic) GC (S)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019
EPH CWG (Aromatic) GC (S)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019
Fluoride	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
GRO by GC-FID (S)	21-Jan-2019	21-Jan-2019	21-Jan-2019		19-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019
Hexavalent Chromium (s)	16-Jan-2019	16-Jan-2019	16-Jan-2019	17-Jan-2019	16-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	15-Jan-2019
Loss on Ignition in soils	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019
Mercury Dissolved	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019
Metals in solid samples by OES	17-Jan-2019	17-Jan-2019	21-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019
Mineral Oil	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
PAH 16 & 17 Calc	18-Jan-2019	23-Jan-2019	22-Jan-2019	22-Jan-2019	18-Jan-2019	23-Jan-2019	22-Jan-2019	23-Jan-2019	21-Jan-2019	23-Jan-2019
PAH by GCMS	17-Jan-2019	17-Jan-2019	22-Jan-2019	22-Jan-2019	17-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019
PCBs by GCMS	17-Jan-2019	17-Jan-2019	21-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	17-Jan-2019
pH	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019
Phenols by HPLC (S)	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019
Phenols by HPLC (W)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019
Sample description	15-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
Total Dissolved Solids	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019
Total Organic Carbon	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	17-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	17-Jan-2019
TPH CWG GC (S)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	19-Jan-2019
VOC MS (S)	21-Jan-2019	20-Jan-2019	20-Jan-2019		21-Jan-2019	18-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19096814	19096815	19096817	19096771	19096773	19096774	19096775	19096776	19096778	19096779
	BH222	BH222	BH222	BH223	BH223	BH223	BH223	BH223	BH223	BH223
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth	2.00 - 3.00	1.00 - 2.00	0.00 - 0.50	15.00 - 17.00	13.00 - 14.00	12.00 - 13.00	11.00 - 12.00	10.00 - 11.00	7.00 - 8.00	6.00 - 7.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019
Anions by Kone (w)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Asbestos ID in Solid Samples	16-Jan-2019	17-Jan-2019	15-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	17-Jan-2019
CEN 10:1 Leachate (1 Stage)	17-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019
CEN Readings	19-Jan-2019	19-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019
Coronene	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019
Dissolved Metals by ICP-MS	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Organic/Inorganic Carbon	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019
EPH CWG (Aliphatic) GC (S)	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
EPH CWG (Aromatic) GC (S)	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Fluoride	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
GRO by GC-FID (S)	21-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019
Hexavalent Chromium (s)	16-Jan-2019	17-Jan-2019	16-Jan-2019	17-Jan-2019	17-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	16-Jan-2019	17-Jan-2019
Loss on Ignition in soils	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019
Mercury Dissolved	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Metals in solid samples by OES	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019
Mineral Oil	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019
PAH 16 & 17 Calc	18-Jan-2019	22-Jan-2019	18-Jan-2019	21-Jan-2019	23-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	22-Jan-2019	21-Jan-2019
PAH by GCMS	17-Jan-2019	22-Jan-2019	17-Jan-2019	21-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	22-Jan-2019	21-Jan-2019
PCBs by GCMS	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	17-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019
pH	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	16-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019
Phenols by HPLC (S)	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	19-Jan-2019	22-Jan-2019	21-Jan-2019
Phenols by HPLC (W)	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	22-Jan-2019
Sample description	15-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019
Total Dissolved Solids	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Total Organic Carbon	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019
TPH CWG GC (S)	21-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
VOC MS (S)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	20-Jan-2019	21-Jan-2019	20-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19096780	19096781	19096782	19096783	19096784	19096834	19096835	19096836	19096838	19096839
	BH223	BH223	BH223	BH223	BH223	BH224	BH224	BH224	BH224	BH224
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	5.00 - 6.00	4.00 - 5.00	3.00 - 4.00	2.00 - 3.00	0.00 - 1.00	16.00 - 17.00	15.00 - 16.00	13.00 - 15.00	11.00 - 12.00	9.00 - 11.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019
Anions by Kone (w)	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019
Asbestos ID in Solid Samples	17-Jan-2019	18-Jan-2019	15-Jan-2019	15-Jan-2019	17-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
Asbestos Quantification - Full					25-Jan-2019					
CEN 10:1 Leachate (1 Stage)	18-Jan-2019	17-Jan-2019	17-Jan-2019	15-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	15-Jan-2019	17-Jan-2019	18-Jan-2019
CEN Readings	19-Jan-2019	19-Jan-2019	19-Jan-2019	17-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	17-Jan-2019	19-Jan-2019	19-Jan-2019
Coronene	18-Jan-2019	18-Jan-2019	16-Jan-2019	16-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	16-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Metals by ICP-MS	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Organic/Inorganic Carbon	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	18-Jan-2019	22-Jan-2019	21-Jan-2019
EPH CWG (Aliphatic) GC (S)	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019
EPH CWG (Aromatic) GC (S)	18-Jan-2019	21-Jan-2019	18-Jan-2019	17-Jan-2019	21-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019
Fluoride	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
GRO by GC-FID (S)	21-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	19-Jan-2019	19-Jan-2019
Hexavalent Chromium (s)	17-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	17-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
Loss on Ignition in soils	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
Mercury Dissolved	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Metals in solid samples by OES	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019
Mineral Oil	18-Jan-2019	17-Jan-2019	16-Jan-2019	16-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	16-Jan-2019	21-Jan-2019	18-Jan-2019
PAH 16 & 17 Calc	21-Jan-2019	23-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	23-Jan-2019	21-Jan-2019	23-Jan-2019
PAH by GCMS	21-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	22-Jan-2019
PCBs by GCMS	21-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019
pH	18-Jan-2019	18-Jan-2019	16-Jan-2019	16-Jan-2019	18-Jan-2019	16-Jan-2019	17-Jan-2019	17-Jan-2019	15-Jan-2019	15-Jan-2019
Phenols by HPLC (S)	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	22-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019
Phenols by HPLC (W)	22-Jan-2019	22-Jan-2019	22-Jan-2019	18-Jan-2019	22-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019
Sample description	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
Total Dissolved Solids	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019
Total Organic Carbon	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
TPH CWG GC (S)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	19-Jan-2019
VOC MS (S)	20-Jan-2019	20-Jan-2019	20-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	20-Jan-2019	20-Jan-2019
Lab Sample No(s) Customer Sample Ref.	19096842	19096843	19096845	19096846	19096847	19096849	19096819	19096821	19096822	19096824
AGS Ref.	BH224	BH224	BH224	BH224	BH224	BH224	BH235	BH235	BH235	BH235
Depth Type	6.00 - 7.00	5.00 - 6.00	3.00 - 4.00	2.00 - 3.00	1.00 - 2.00	0.00 - 0.50	15.00 - 16.00	13.00 - 14.00	12.50 - 13.00	9.00 - 10.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	18-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019
Anions by Kone (w)	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019
Asbestos ID in Solid Samples	16-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019
Asbestos Quantification - Full			26-Feb-2019	26-Feb-2019						
CEN 10:1 Leachate (1 Stage)	15-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	15-Jan-2019
CEN Readings	17-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	21-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	17-Jan-2019
Coronene	18-Jan-2019	16-Jan-2019	18-Jan-2019	18-Jan-2019	16-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Metals by ICP-MS	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Organic/Inorganic Carbon	21-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	21-Jan-2019
EPH CWG (Aliphatic) GC (S)	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019
EPH CWG (Aromatic) GC (S)	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019
Fluoride	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
GRO by GC-FID (S)	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Hexavalent Chromium (s)	15-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019
Loss on Ignition in soils	21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019
Mercury Dissolved	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019
Metals in solid samples by OES	21-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019
Mineral Oil	17-Jan-2019	16-Jan-2019	17-Jan-2019	17-Jan-2019	16-Jan-2019	21-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019
PAH 16 & 17 Calc	23-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	22-Jan-2019	22-Jan-2019
PAH by GCMS	18-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	22-Jan-2019	22-Jan-2019
PCBs by GCMS	21-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019
pH	15-Jan-2019	15-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019
Phenols by HPLC (S)	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019
Phenols by HPLC (W)	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Sample description	14-Jan-2019	14-Jan-2019	15-Jan-2019	15-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019
Total Dissolved Solids	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019
Total Organic Carbon	21-Jan-2019	18-Jan-2019	17-Jan-2019	17-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	21-Jan-2019
TPH CWG GC (S)	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	19-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
VOC MS (S)	18-Jan-2019	18-Jan-2019	20-Jan-2019	20-Jan-2019	20-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)
Customer Sample Ref.
AGS Ref.
Depth
Type

	19096825	19096826	19096828	19096829	19096830	19096831	19096832	19096833
	BH235	BH235	BH235	BH235	BH235	BH235	BH235	BH235
	8.00 - 9.00	7.00 - 8.00	4.00 - 5.00	3.00 - 4.00	2.00 - 3.00	1.00 - 2.00	0.50 - 1.00	0.00 - 0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	17-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
Anions by Kone (w)	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Asbestos ID in Solid Samples	15-Jan-2019	15-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019	16-Jan-2019	16-Jan-2019
CEN 10:1 Leachate (1 Stage)	15-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	15-Jan-2019	17-Jan-2019	17-Jan-2019	18-Jan-2019
CEN Readings	17-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	17-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019
Coronene	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	16-Jan-2019
Dissolved Metals by ICP-MS	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Dissolved Organic/Inorganic Carbon	21-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019	21-Jan-2019	22-Jan-2019	22-Jan-2019	22-Jan-2019
EPH CWG (Aliphatic) GC (S)	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019
EPH CWG (Aromatic) GC (S)	18-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019
Fluoride	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
GRO by GC-FID (S)	21-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	21-Jan-2019
Hexavalent Chromium (s)	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
Loss on Ignition in soils	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
Mercury Dissolved	22-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Metals in solid samples by OES	17-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019
Mineral Oil	18-Jan-2019	18-Jan-2019	17-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	16-Jan-2019
PAH 16 & 17 Calc	22-Jan-2019	22-Jan-2019	18-Jan-2019	22-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019	17-Jan-2019
PAH by GCMS	22-Jan-2019	22-Jan-2019	18-Jan-2019	22-Jan-2019	22-Jan-2019	18-Jan-2019	18-Jan-2019	17-Jan-2019
PCBs by GCMS	17-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019
pH	15-Jan-2019	15-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	16-Jan-2019	15-Jan-2019	15-Jan-2019
Phenols by HPLC (S)	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	19-Jan-2019
Phenols by HPLC (W)	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	22-Jan-2019	21-Jan-2019	21-Jan-2019
Sample description	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
Total Dissolved Solids	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	18-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019
Total Organic Carbon	17-Jan-2019	18-Jan-2019	18-Jan-2019	21-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019
TPH CWG GC (S)	21-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	19-Jan-2019	21-Jan-2019
VOC MS (S)	21-Jan-2019	20-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019	21-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

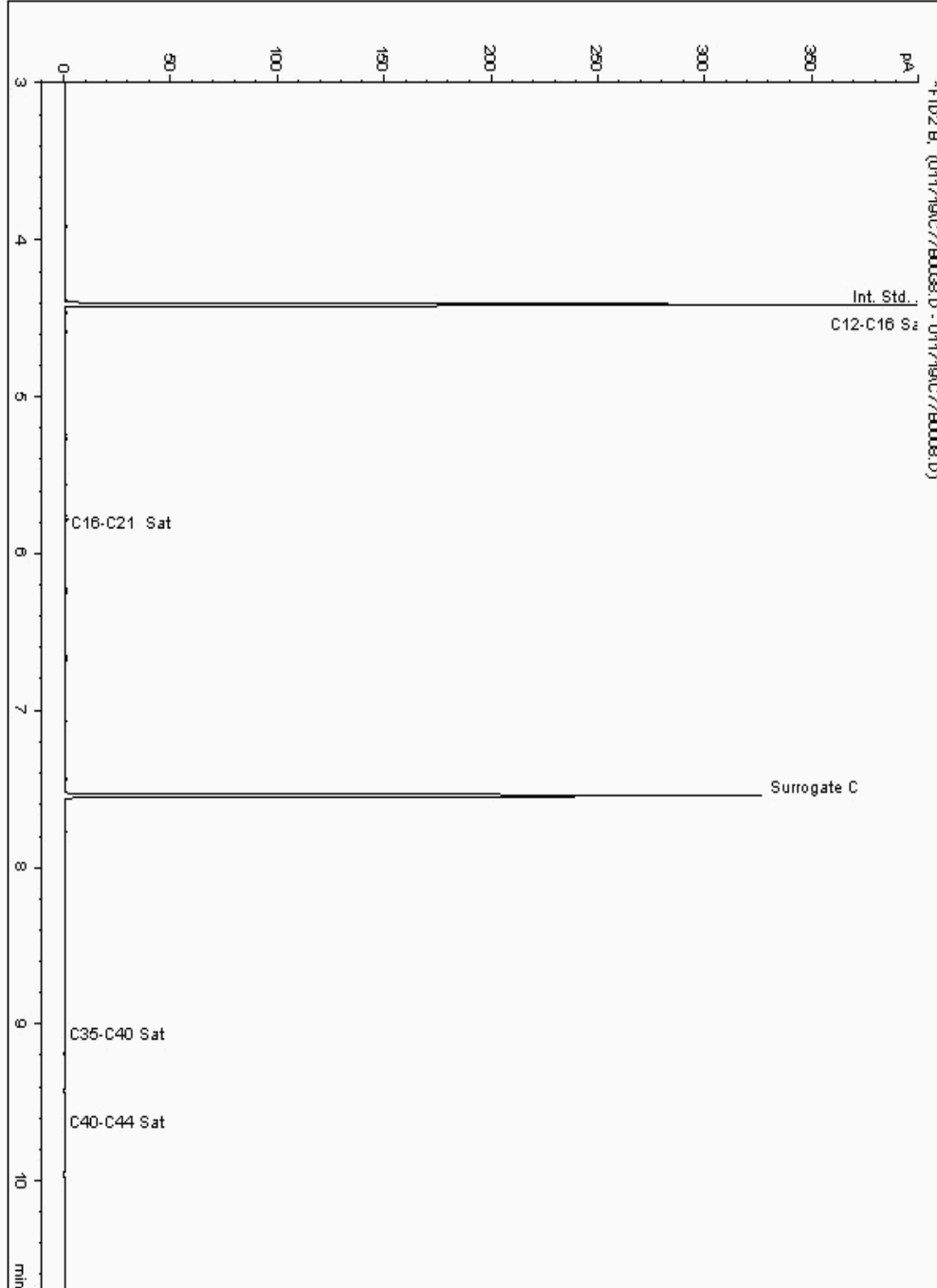
Analysis: EPH CWG (Aliphatic) GC (S)
19108731

Sample No :
Sample ID : BH223

19,108,731 Depth : 10.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946592-
Date Acquired : 18/01/2019 17:50:55 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

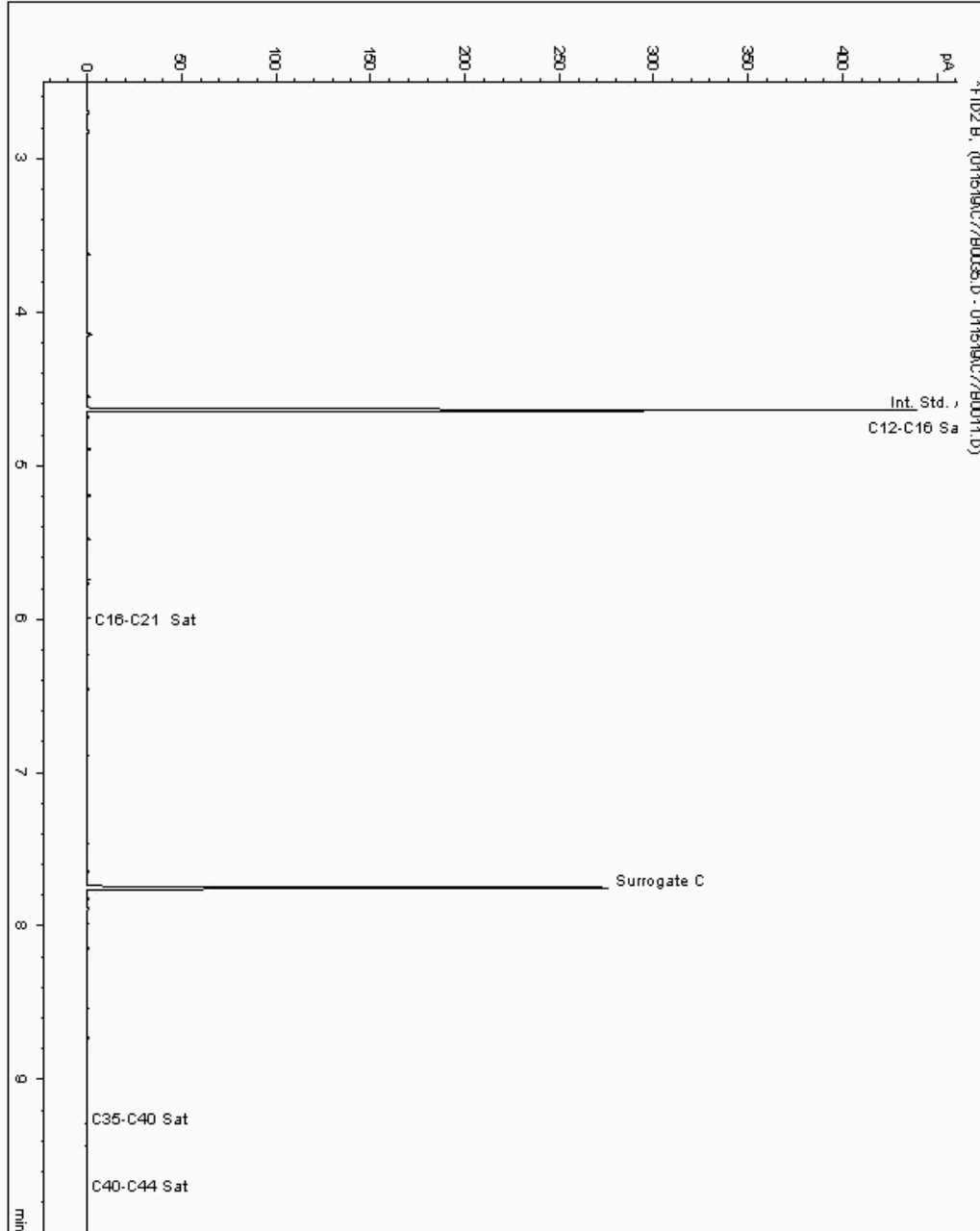
Analysis: EPH CWG (Aliphatic) GC (S)
19108798

Sample No :
Sample ID : BH235

19,108,798 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947412-
Date Acquired : 1/16/2019 5:07:01 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.940





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

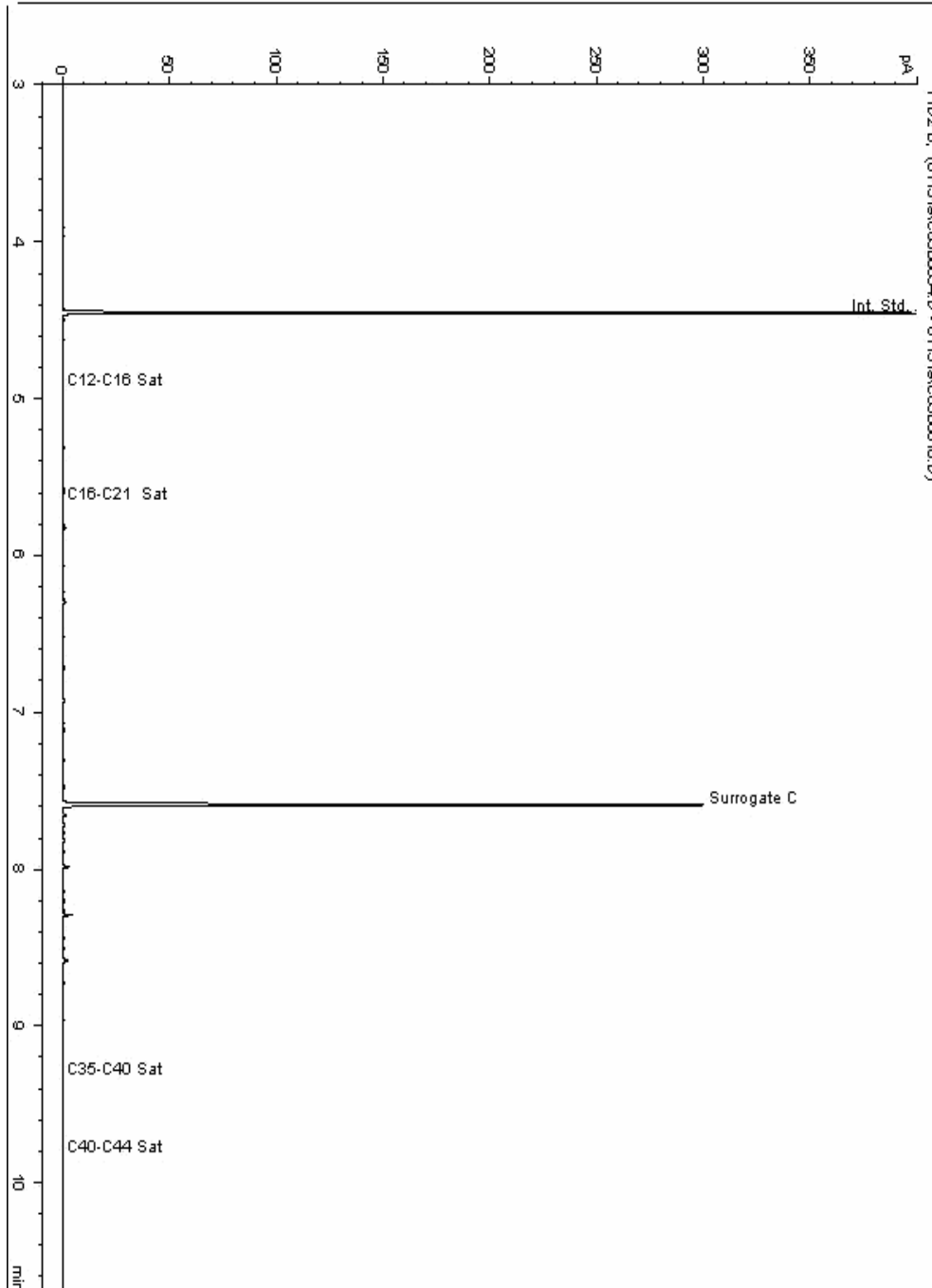
Analysis: EPH CWG (Aliphatic) GC (S)
19108828

Sample No :
Sample ID : BH235

19,108,828Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947587-
Date Acquired : 15/01/2019 19:52:24 PM
Units : ppb
Dilution: BH235[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

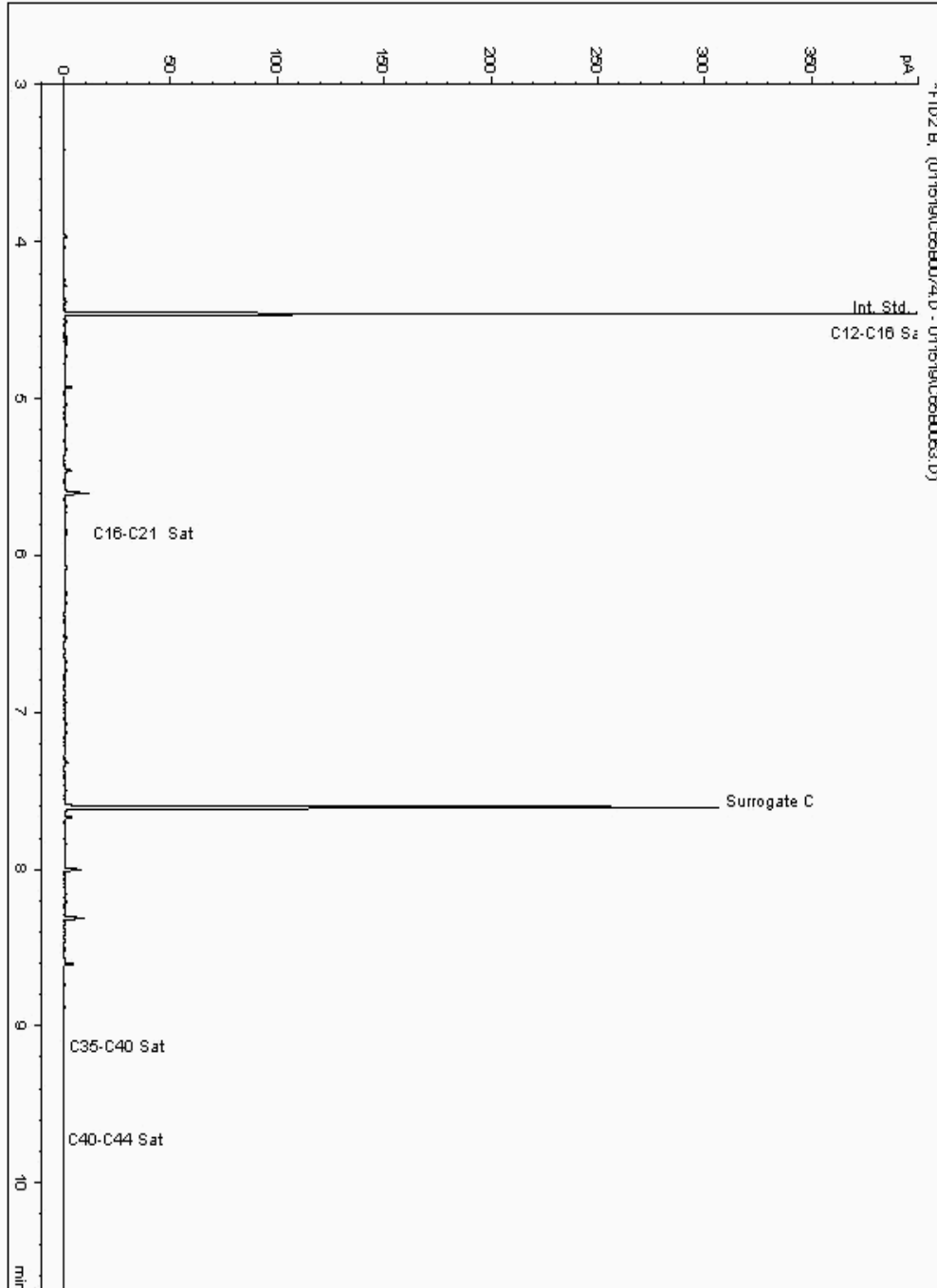
Analysis: EPH CWG (Aliphatic) GC (S)
19108885

Sample No :
Sample ID : BH222

19,108,885Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947242-
Date Acquired : 17/01/2019 17:19:23 PM
Units : ppb
Dilution: BH222[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

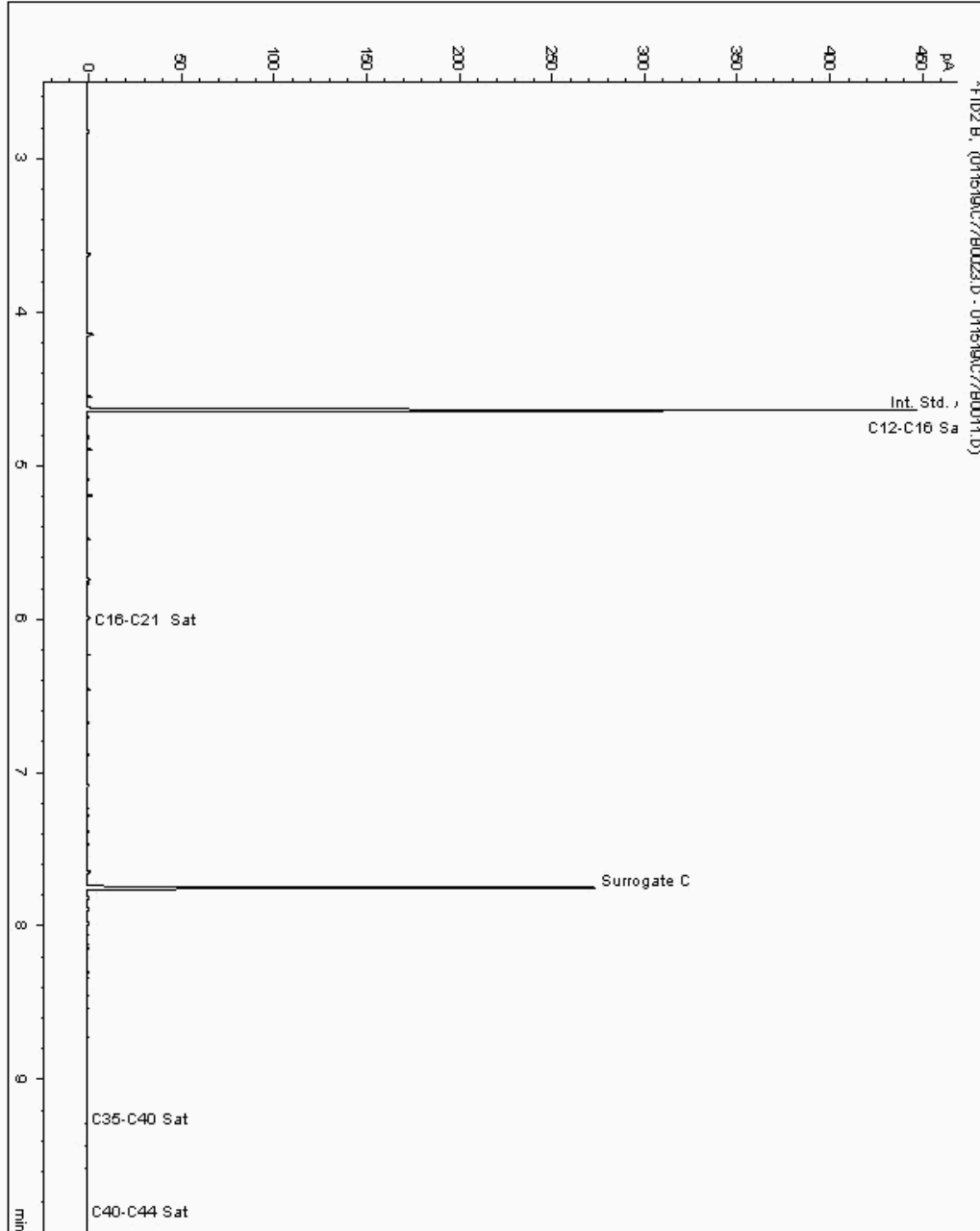
Analysis: EPH CWG (Aliphatic) GC (S)
19108920

Sample No :
Sample ID : BH224

19,108,920Depth : 13.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947763-
Date Acquired : 1/16/2019 1:13:07 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

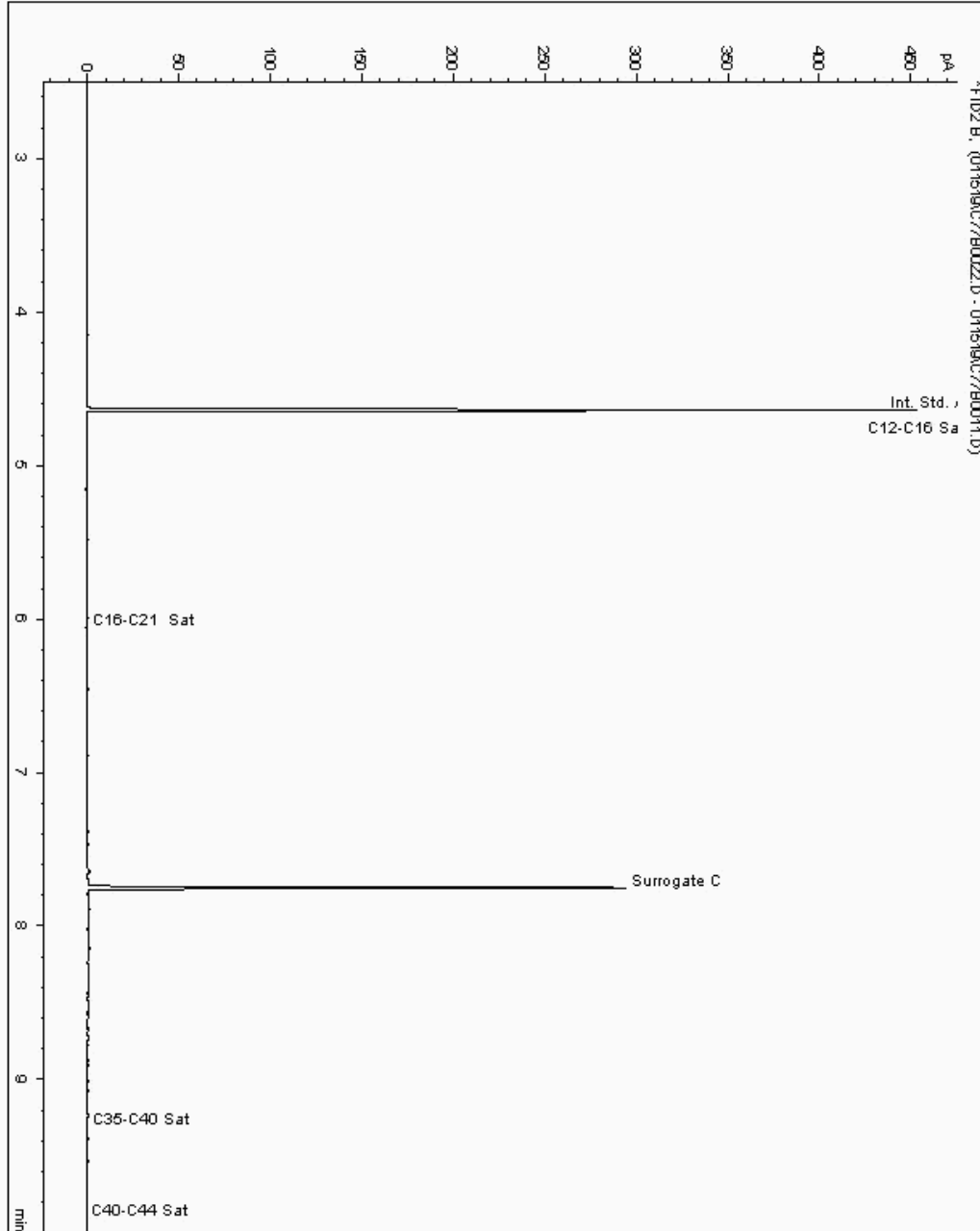
Analysis: EPH CWG (Aliphatic) GC (S)
19108952

Sample No :
Sample ID : BH223

19,108,952Depth :2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946731-
Date Acquired : 1/16/2019 12:52:57 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

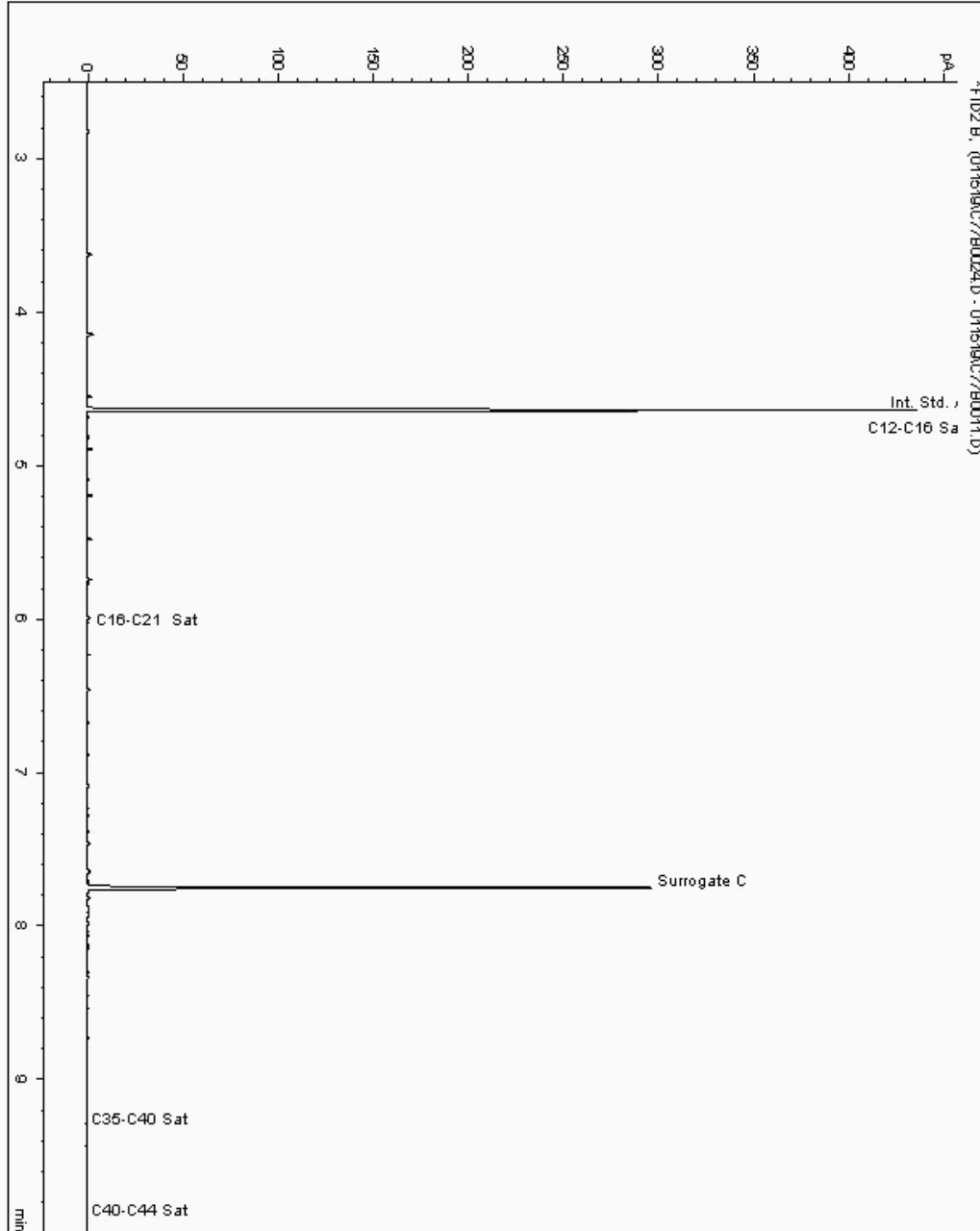
Analysis: EPH CWG (Aliphatic) GC (S)
19109033

Sample No :
Sample ID : BH224

19,109,033 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947739-
Date Acquired : 1/16/2019 1:33:18 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

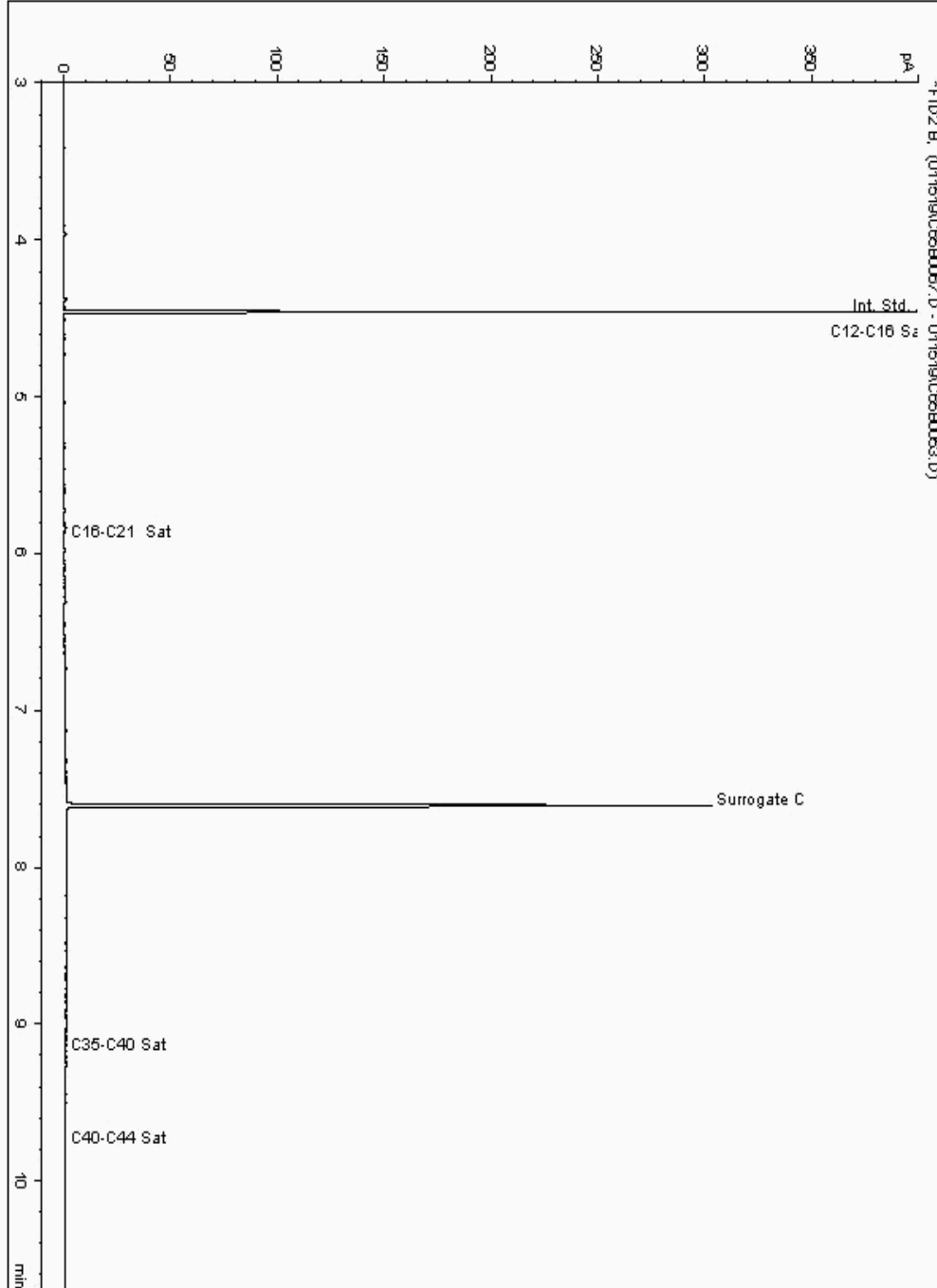
Analysis: EPH CWG (Aliphatic) GC (S)
19109081

Sample No :
Sample ID : BH218

19,109,081 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948230-
Date Acquired : 17/01/2019 15:13:14 PM
Units : ppb
Dilution: BH218[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

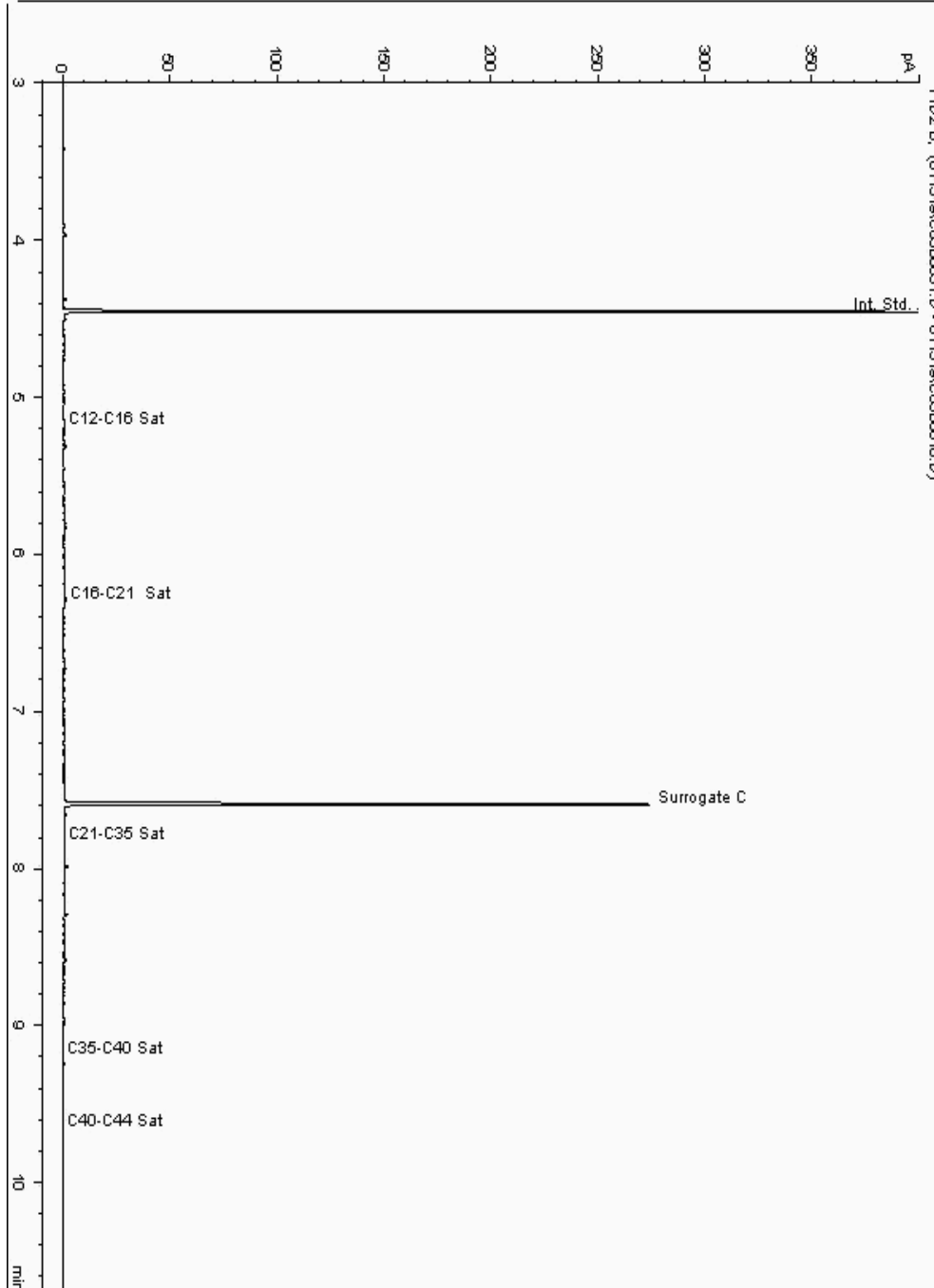
Analysis: EPH CWG (Aliphatic) GC (S)
19109139

Sample No :
Sample ID : BH218

19,109,139Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948137-
Date Acquired : 15/01/2019 18:58:53 PM
Units : ppb
Dilution: BH218[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

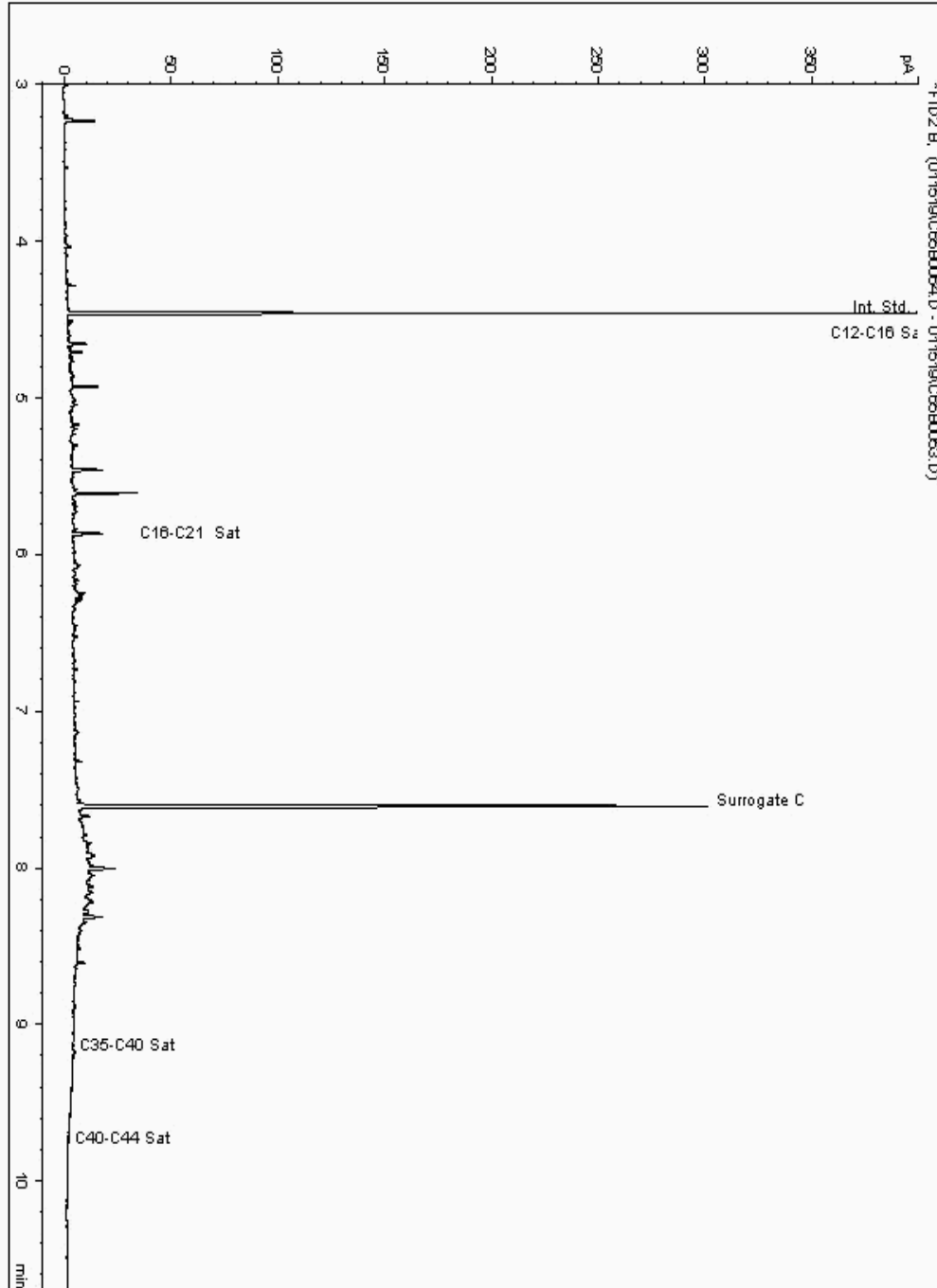
Analysis: EPH CWG (Aliphatic) GC (S)
19109146

Sample No :
Sample ID : BH223

19,109,146Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946708-
Date Acquired : 17/01/2019 14:20:01 PM
Units : ppb
Dilution: BH223[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

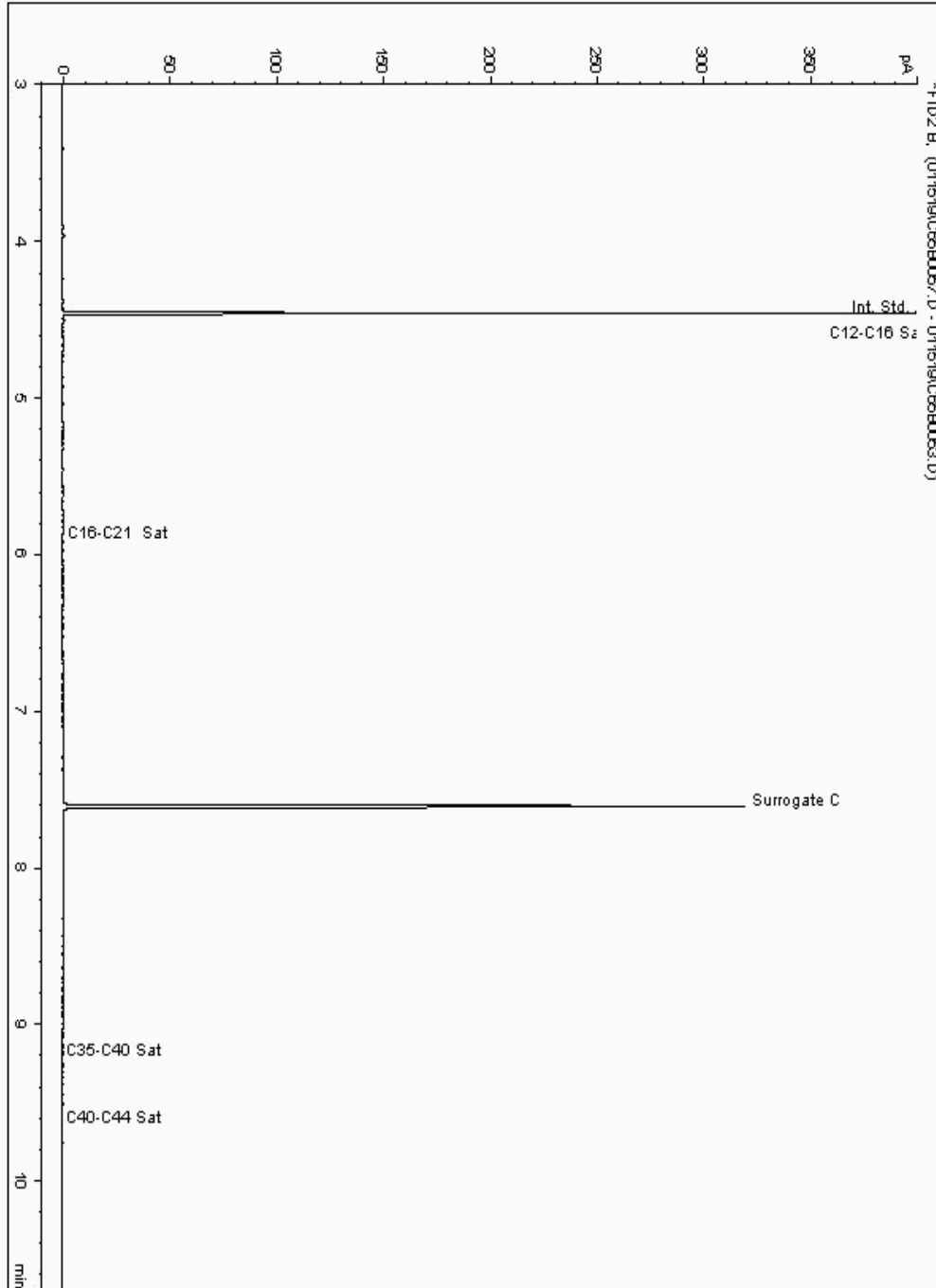
Analysis: EPH CWG (Aliphatic) GC (S)
19109209

Sample No :
Sample ID : BH223

19,109,209Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946569-
Date Acquired : 17/01/2019 12:14:22 PM
Units : ppb
Dilution: BH223[11.00 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

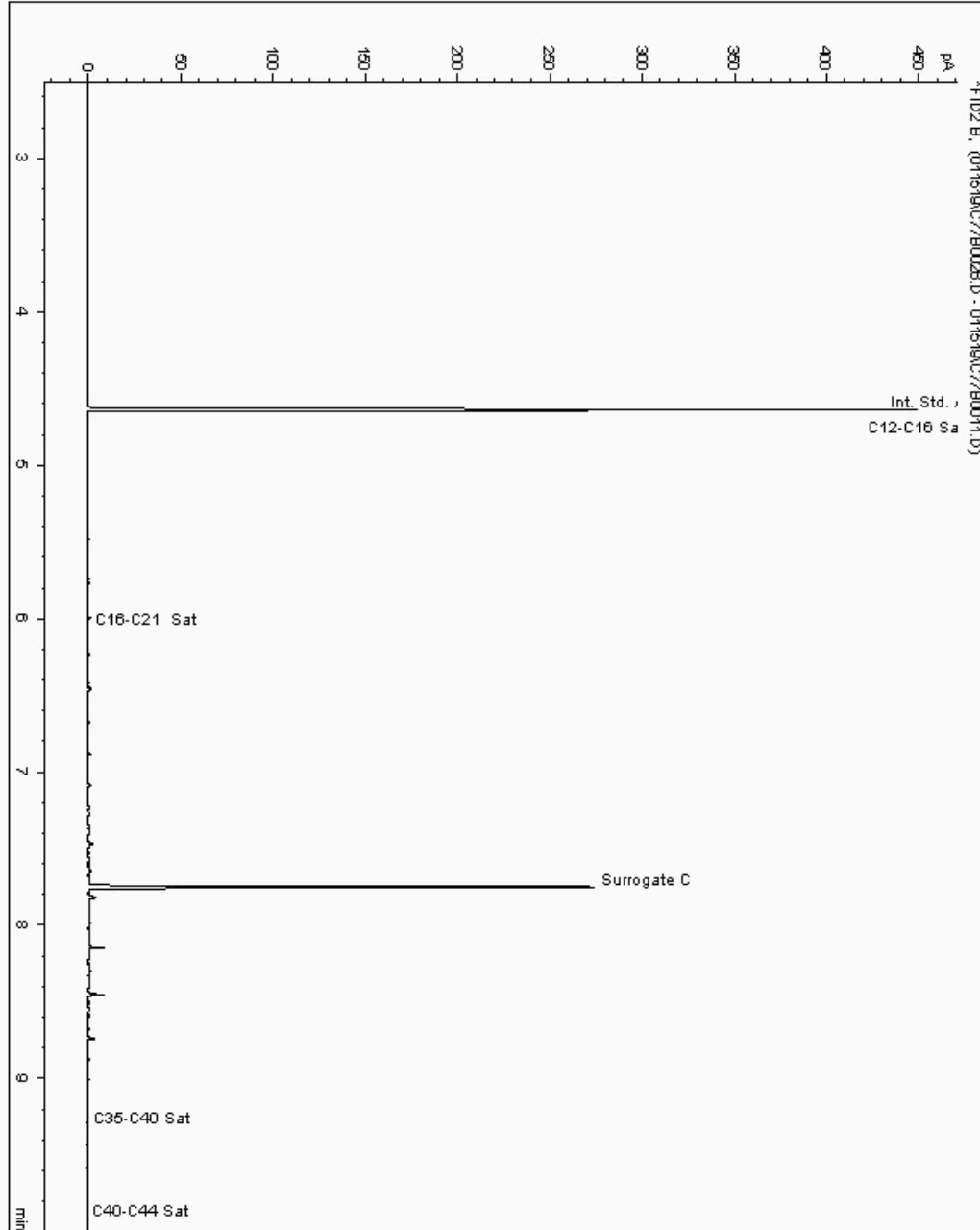
Analysis: EPH CWG (Aliphatic) GC (S)
19109214

Sample No :
Sample ID : BH218

19,109,214 Depth : 0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948091-
Date Acquired : 1/16/2019 2:13:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

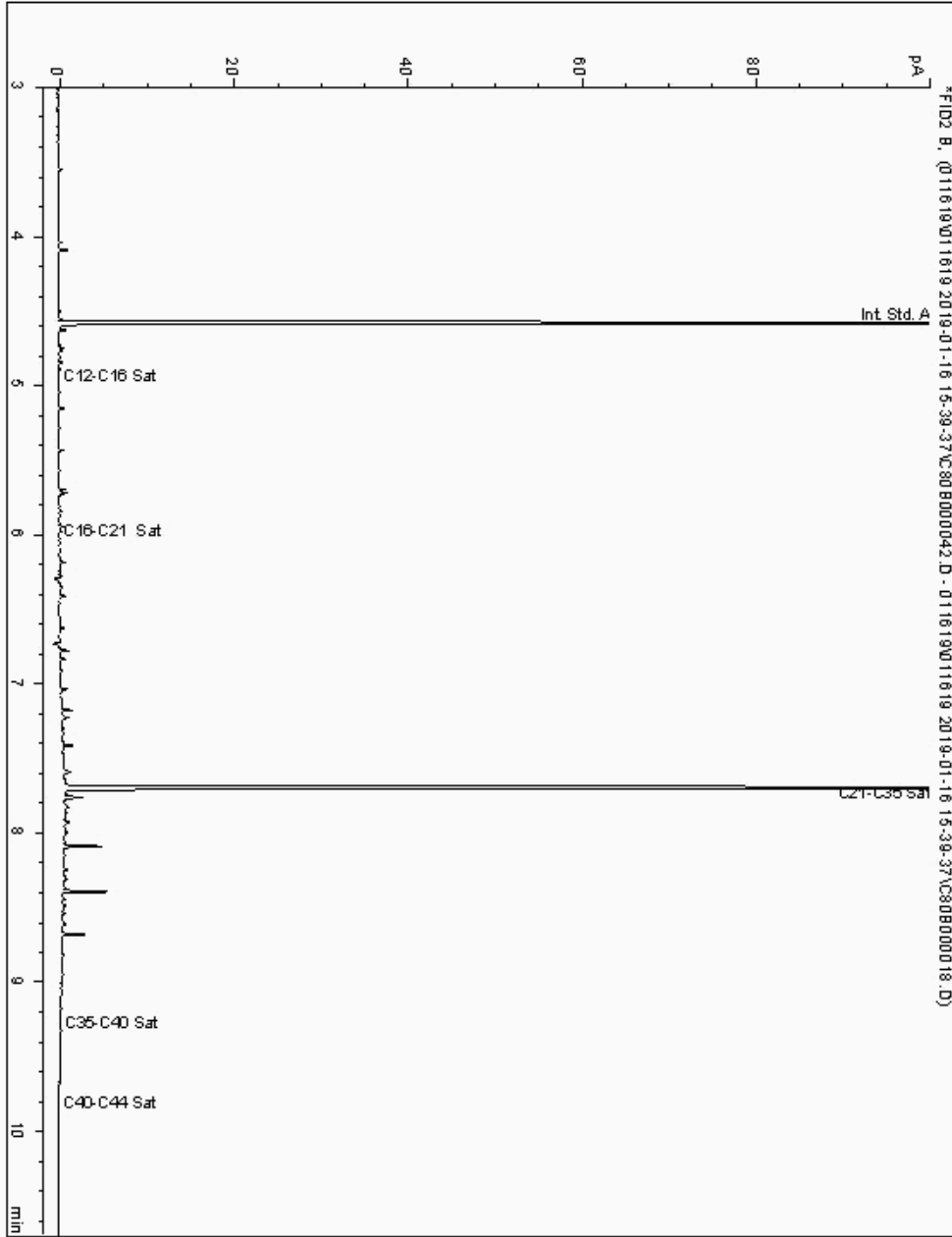
Analysis: EPH CWG (Aliphatic) GC (S)
19109237

Sample No :
Sample ID : BH218

19,109,237Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948068-
Date Acquired : 17/01/19 04:43:06
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

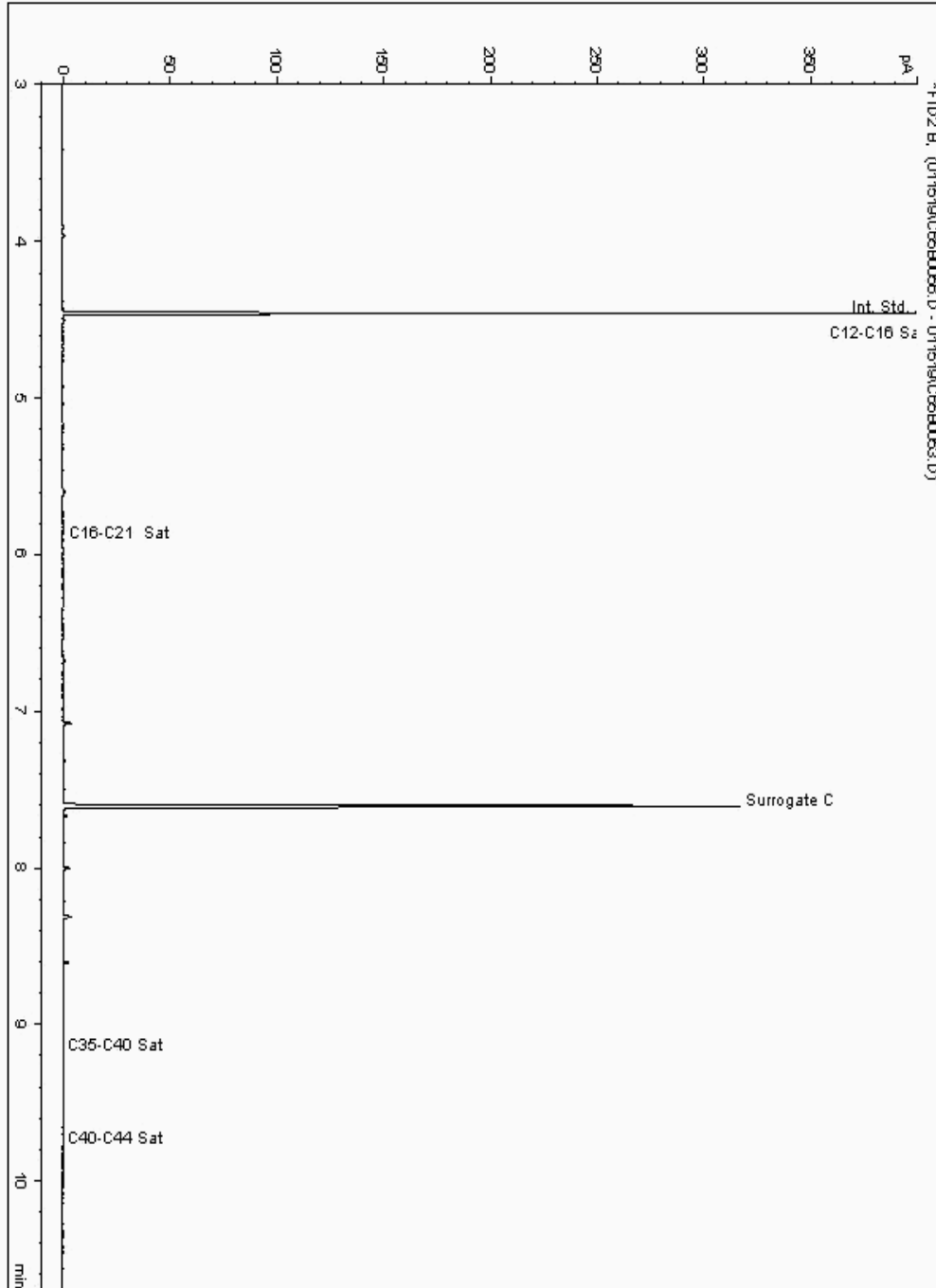
Analysis: EPH CWG (Aliphatic) GC (S)
19109244

Sample No :
Sample ID : BH235

19,109,244 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947564-
Date Acquired : 17/01/2019 11:53:55 PM
Units : ppb
Dilution: BH235[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

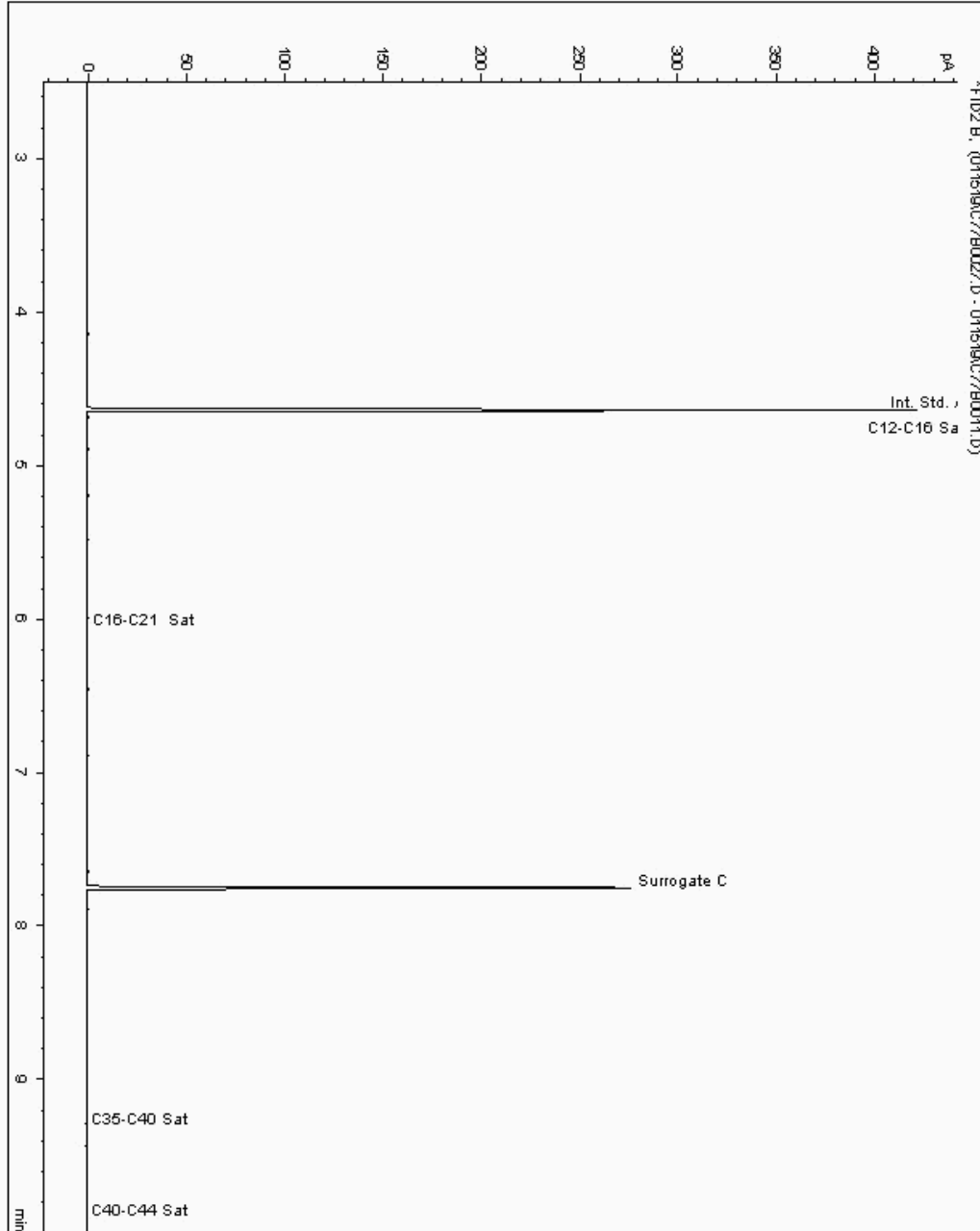
Analysis: EPH CWG (Aliphatic) GC (S)
19109258

Sample No :
Sample ID : BH235

19,109,258 Depth : 9.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947487-
Date Acquired : 1/16/2019 2:33:46 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

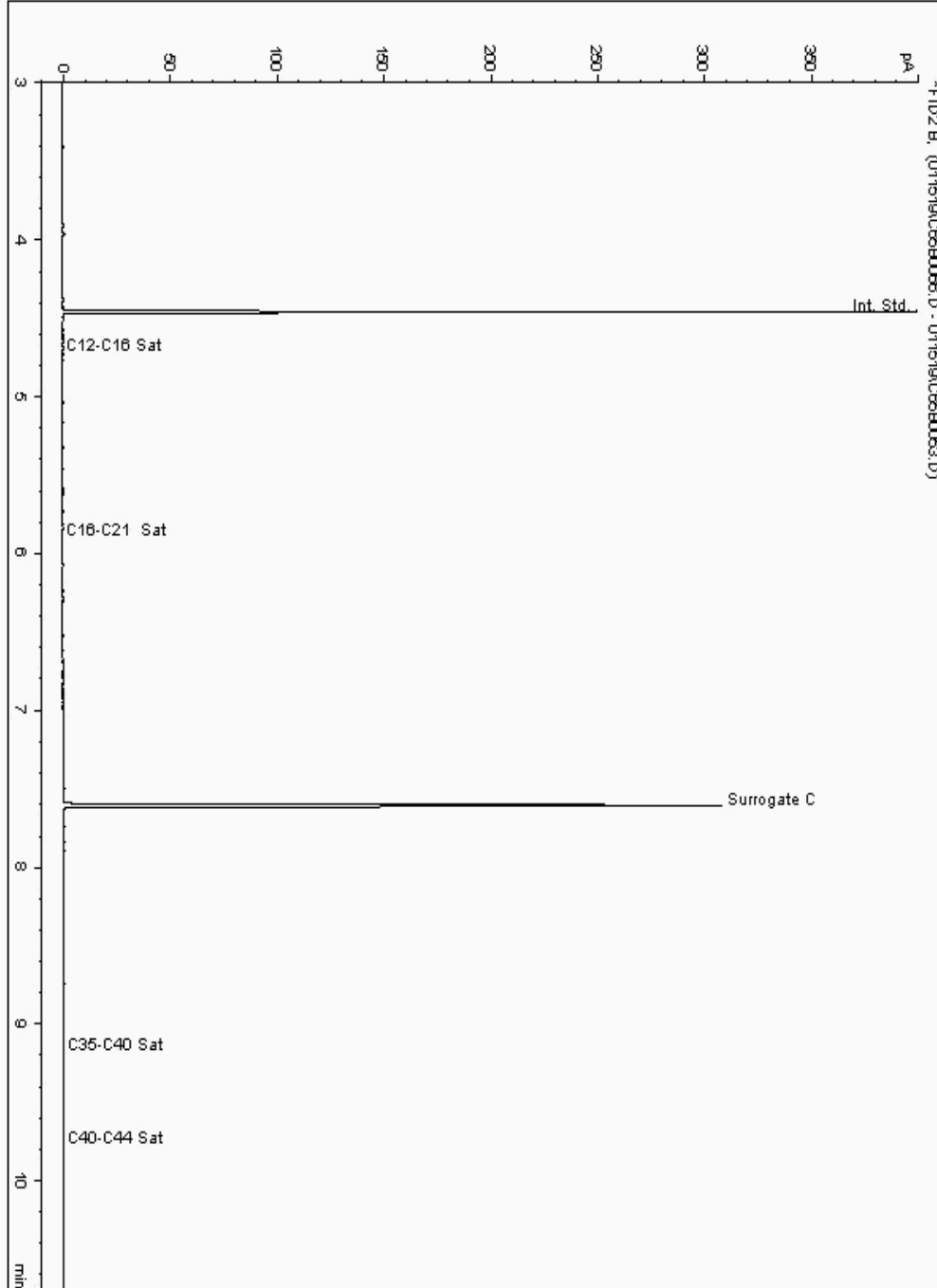
Analysis: EPH CWG (Aliphatic) GC (S)
19109301

Sample No :
Sample ID : BH235

19,109,301 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947518-
Date Acquired : 17/01/2019 14:52:49 PM
Units : ppb
Dilution: BH235[8.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

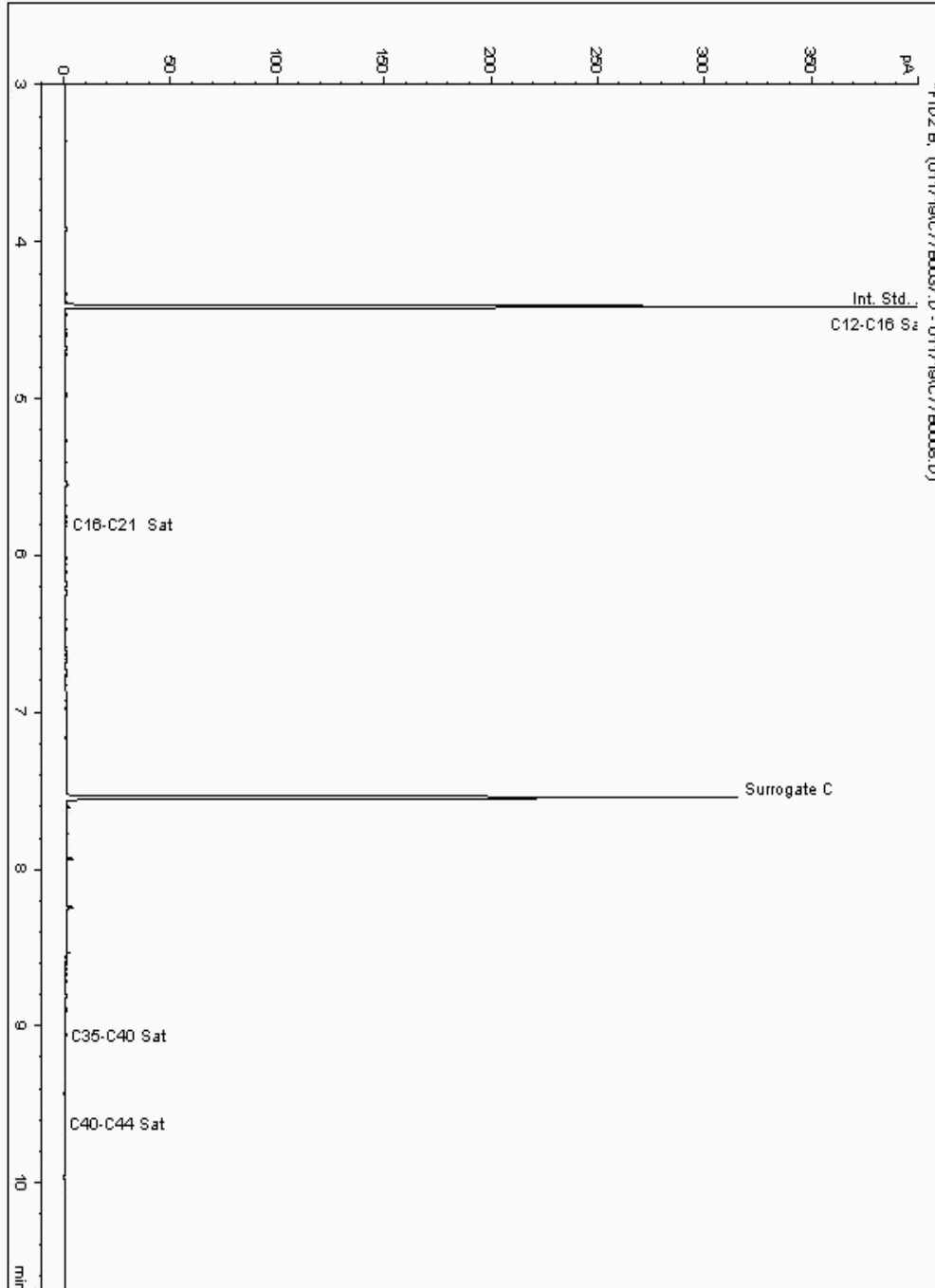
Analysis: EPH CWG (Aliphatic) GC (S)
19109339

Sample No :
Sample ID : BH219

19,109,339 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946873-
Date Acquired : 18/01/2019 17:30:46 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

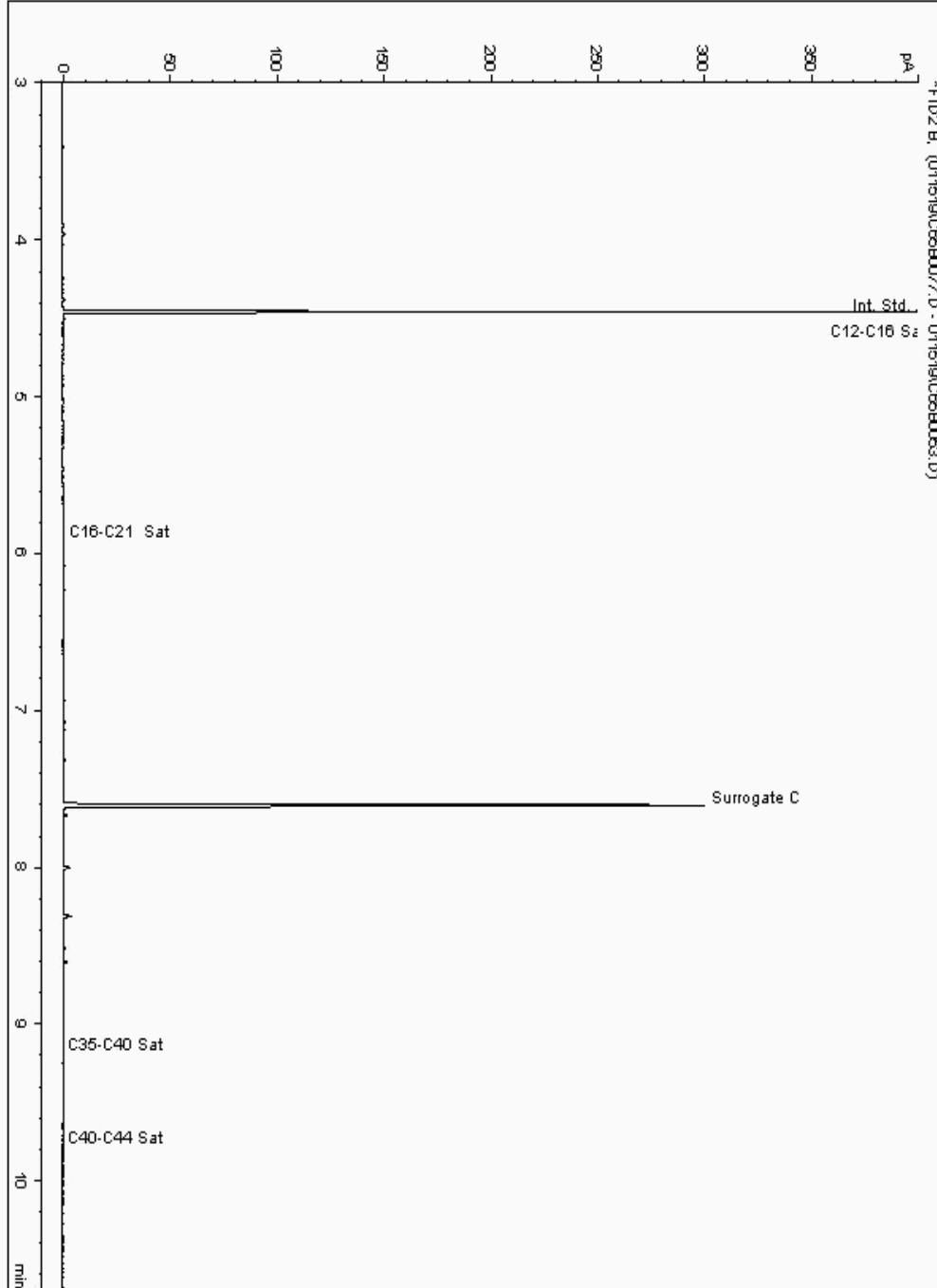
Analysis: EPH CWG (Aliphatic) GC (S)
19109362

Sample No :
Sample ID : BH235

19,109,362 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947622-
Date Acquired : 17/01/2019 18:12:13 PM
Units : ppb
Dilution: BH235[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

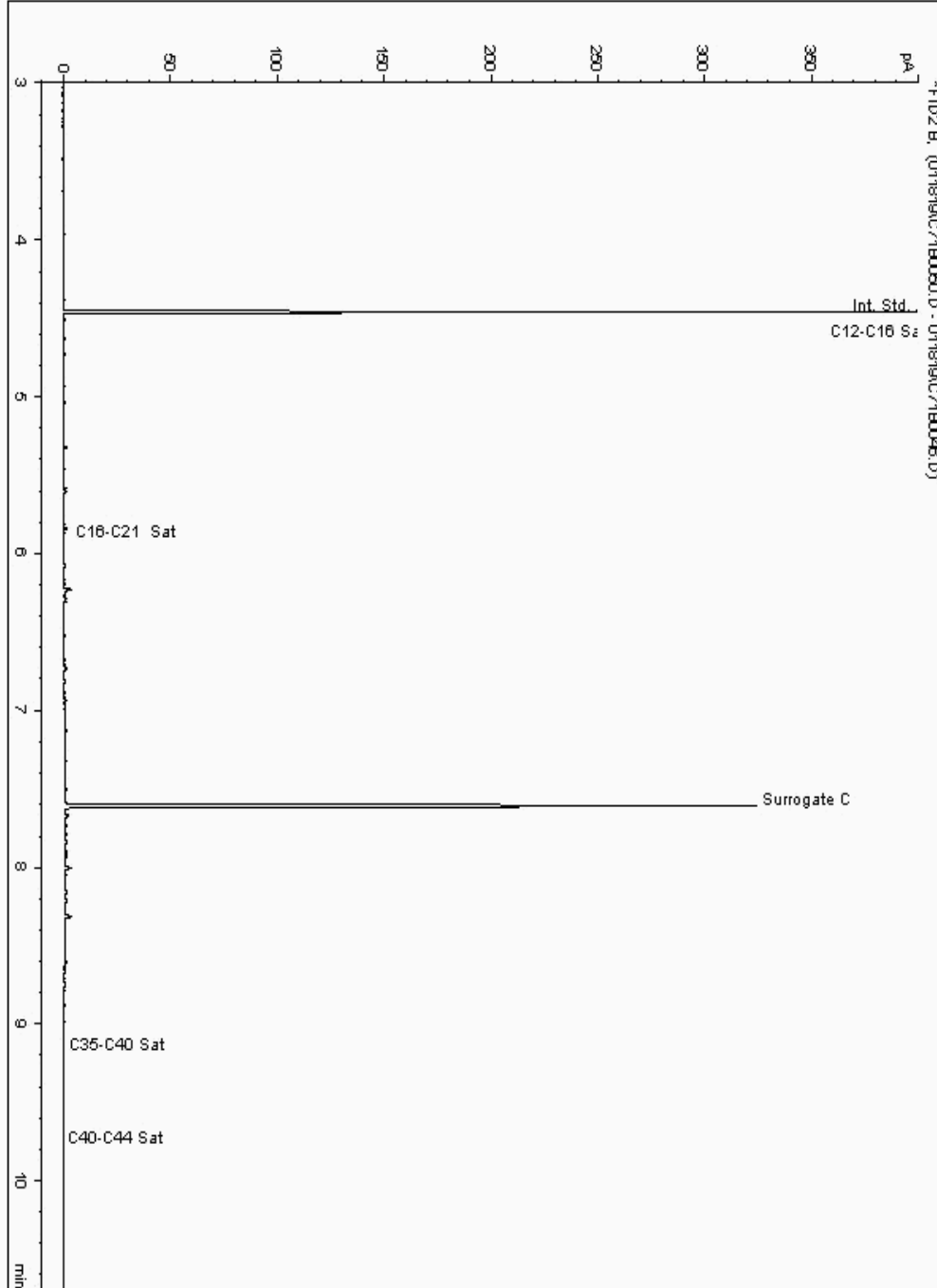
Analysis: EPH CWG (Aliphatic) GC (S)
19109363

Sample No :
Sample ID : BH219

19,109,363 Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946851-
Date Acquired : 18/01/2019 23:56:23 PM
Units : ppb
Dilution: BH219[7.00 - 8.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

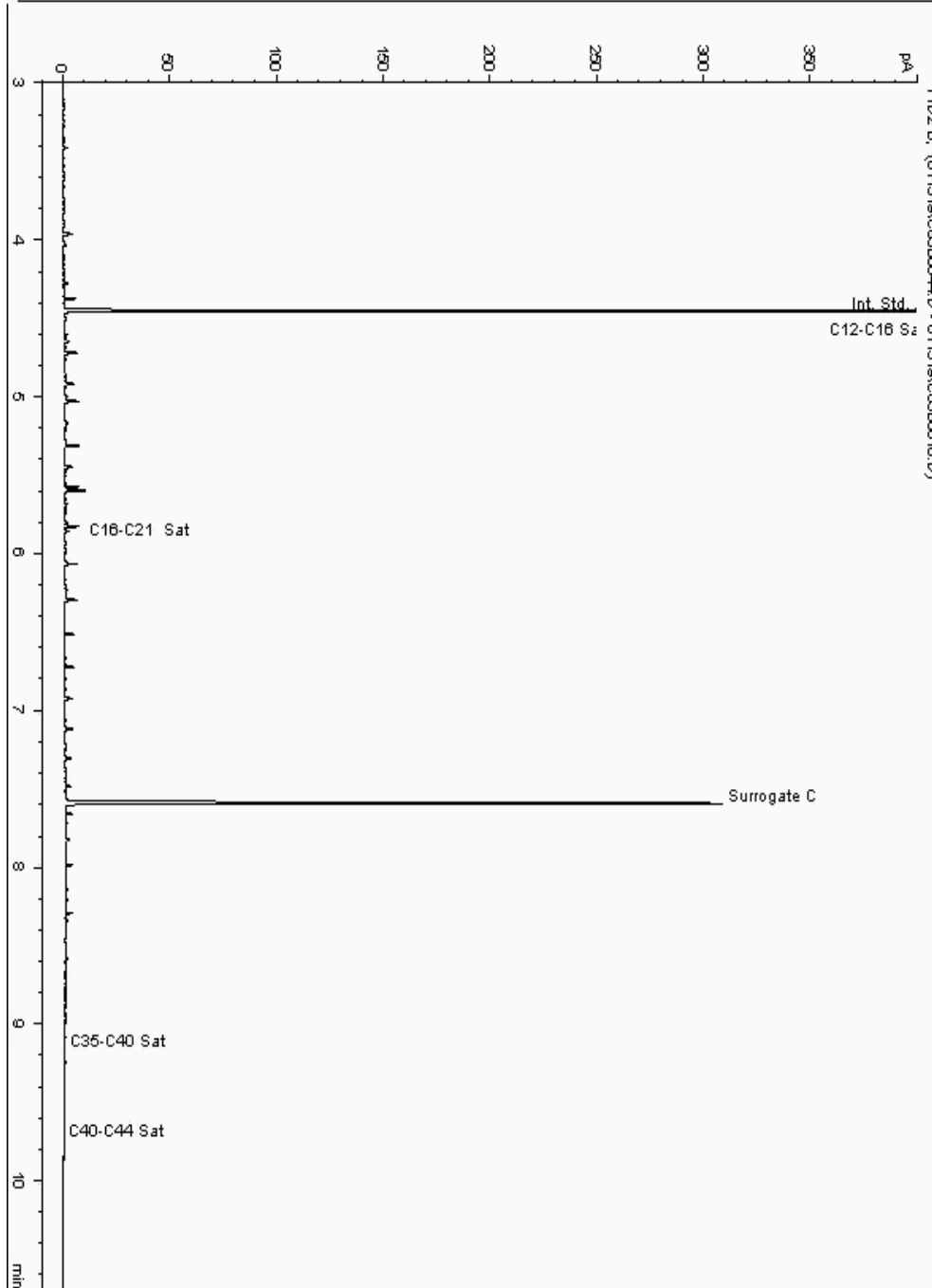
Analysis: EPH CWG (Aliphatic) GC (S)
19109420

Sample No :
Sample ID : BH224

19,109,420Depth :6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947833-
Date Acquired : 15/01/2019 22:36:07 PM
Units : ppb
Dilution: BH224[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

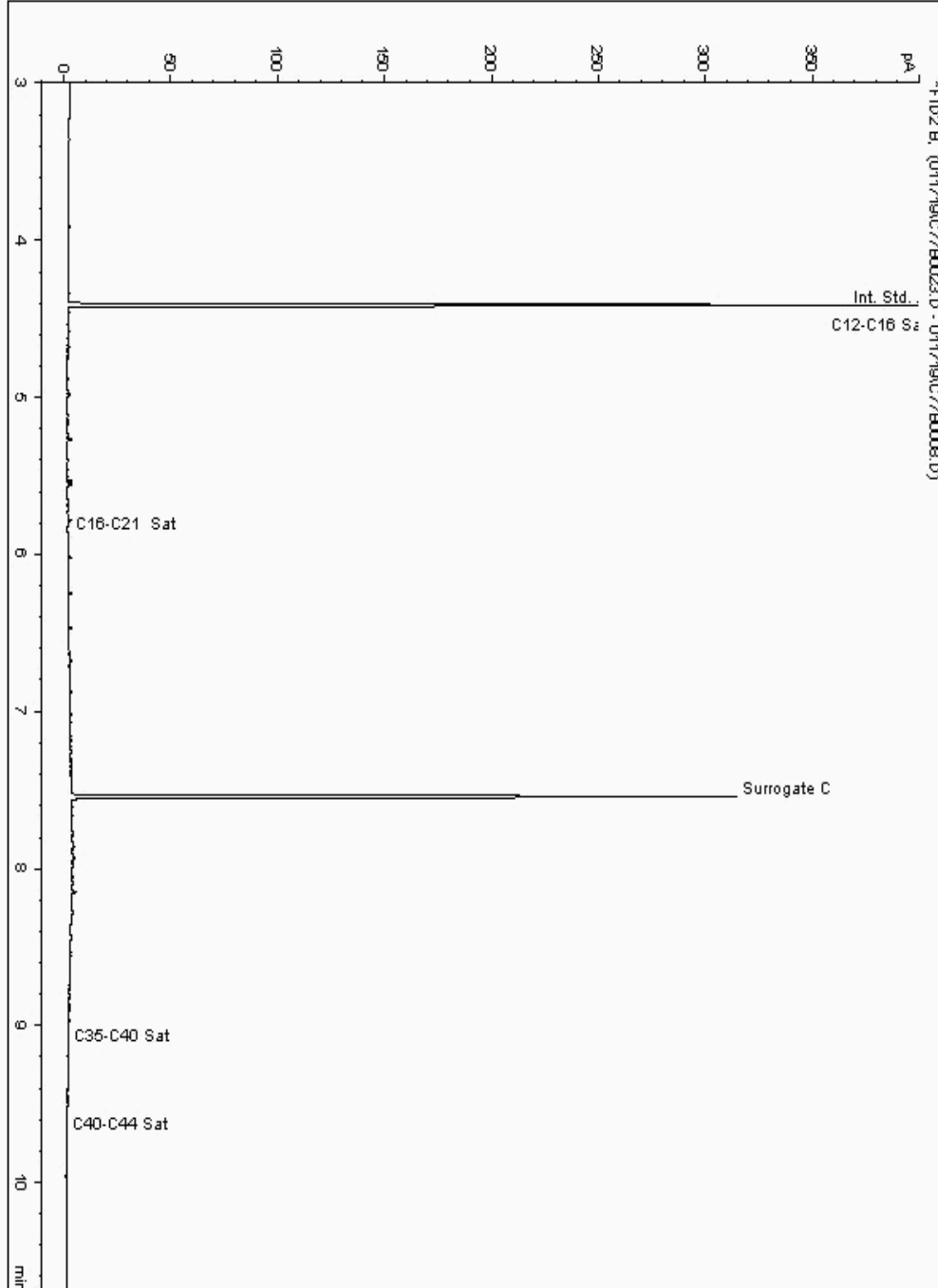
Analysis: EPH CWG (Aliphatic) GC (S)
19109427

Sample No :
Sample ID : BH219

19,109,427 Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946971-
Date Acquired : 18/01/2019 13:20:24 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

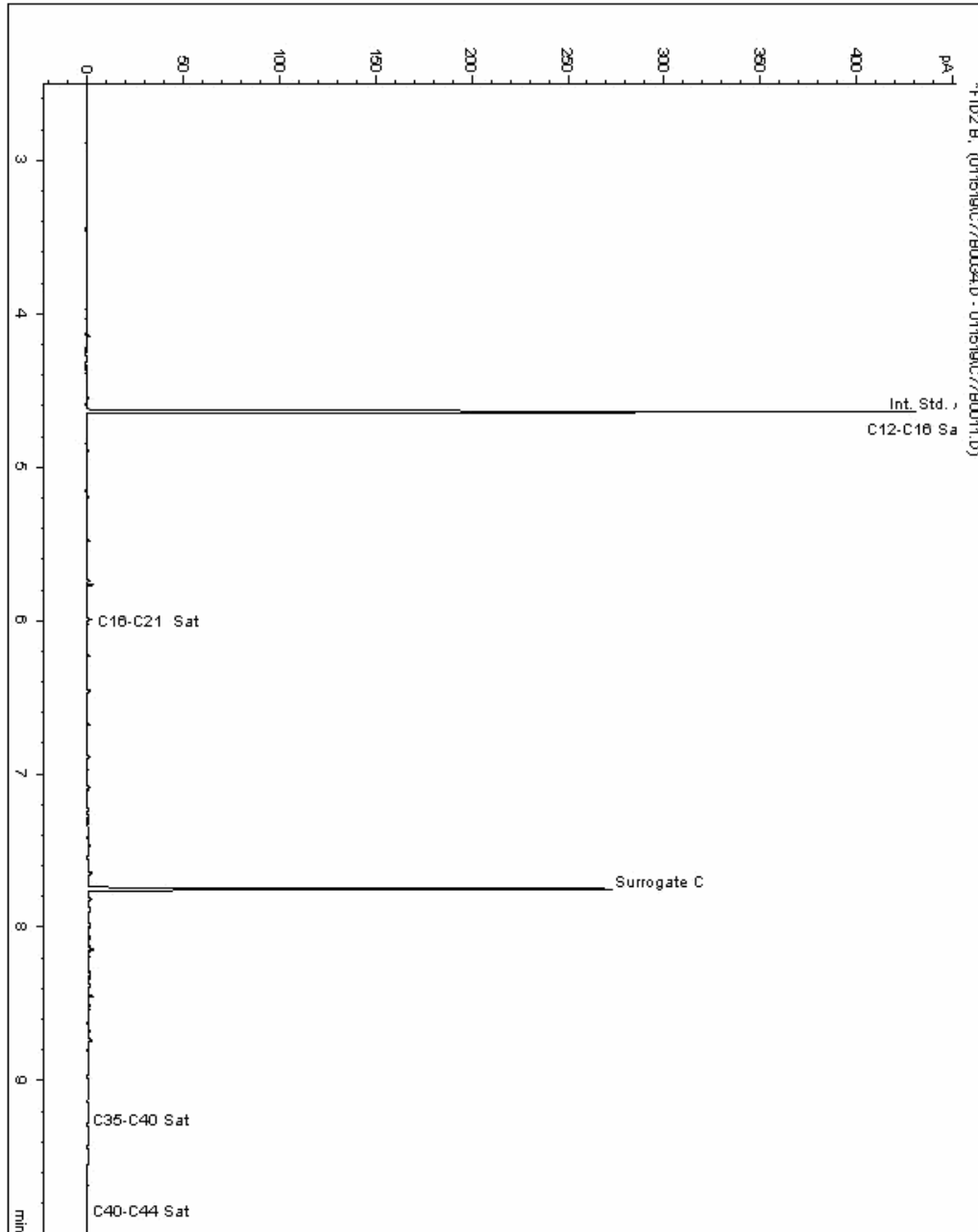
Analysis: EPH CWG (Aliphatic) GC (S)
19109468

Sample No :
Sample ID : BH224

19,109,468 Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947999-
Date Acquired : 1/16/2019 4:46:50 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

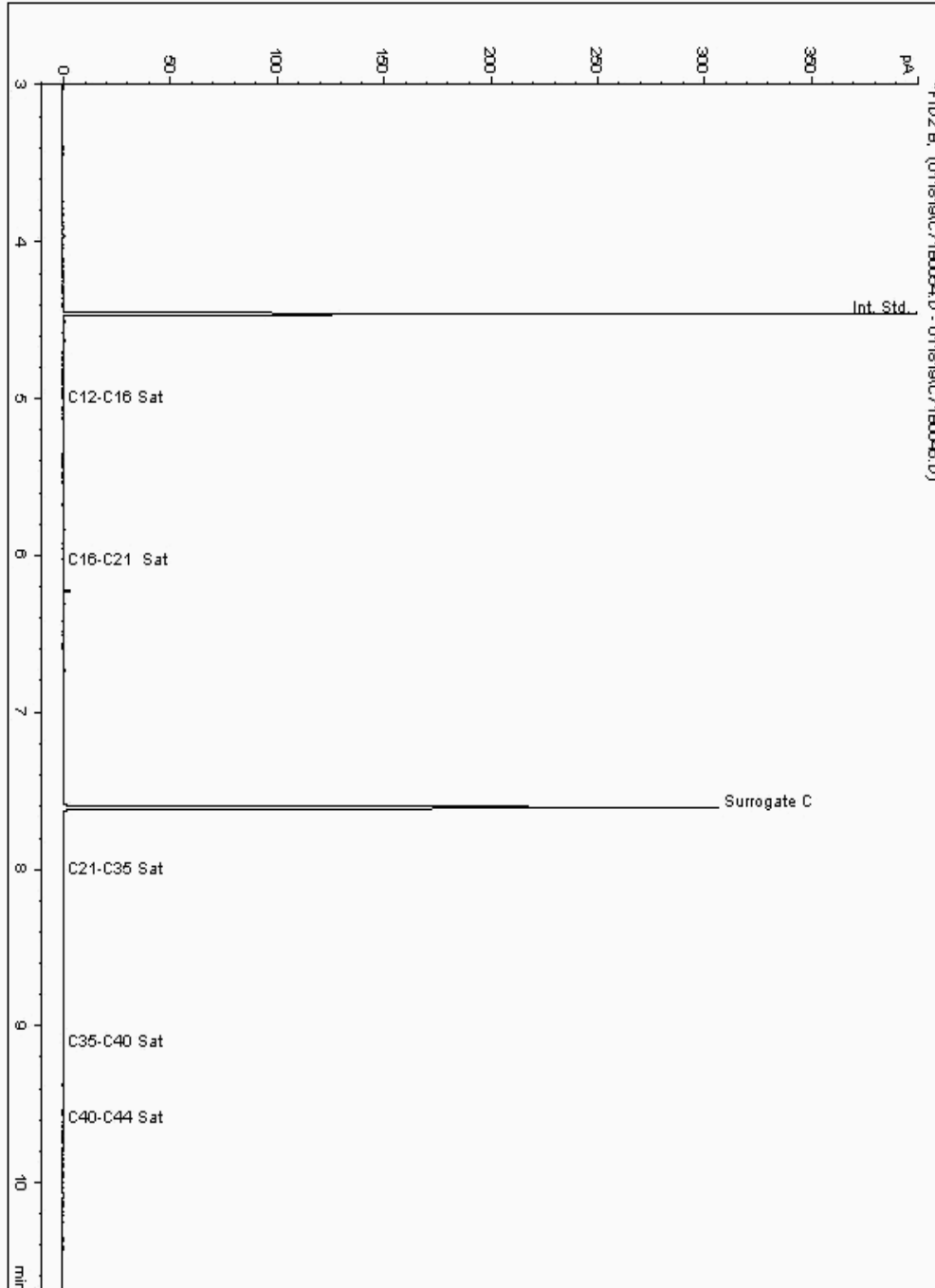
Analysis: EPH CWG (Aliphatic) GC (S)
19109503

Sample No :
Sample ID : BH219

19,109,503 Depth : 9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946801-
Date Acquired : 19/01/2019 01:09:33 PM
Units : ppb
Dilution: BH219[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

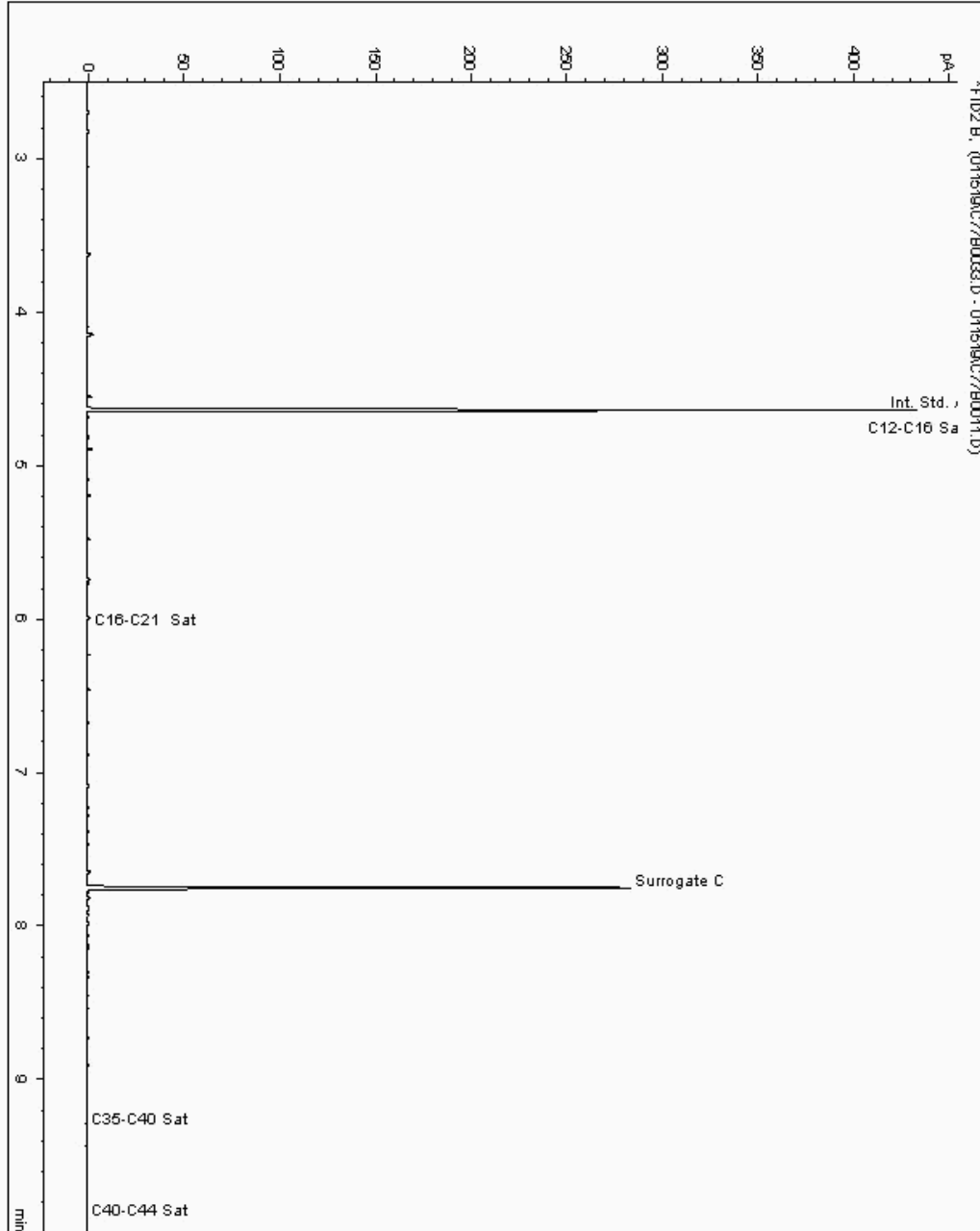
Analysis: EPH CWG (Aliphatic) GC (S)
19109505

Sample No :
Sample ID : BH218

19,109,505Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948324-
Date Acquired : 1/16/2019 4:26:41 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

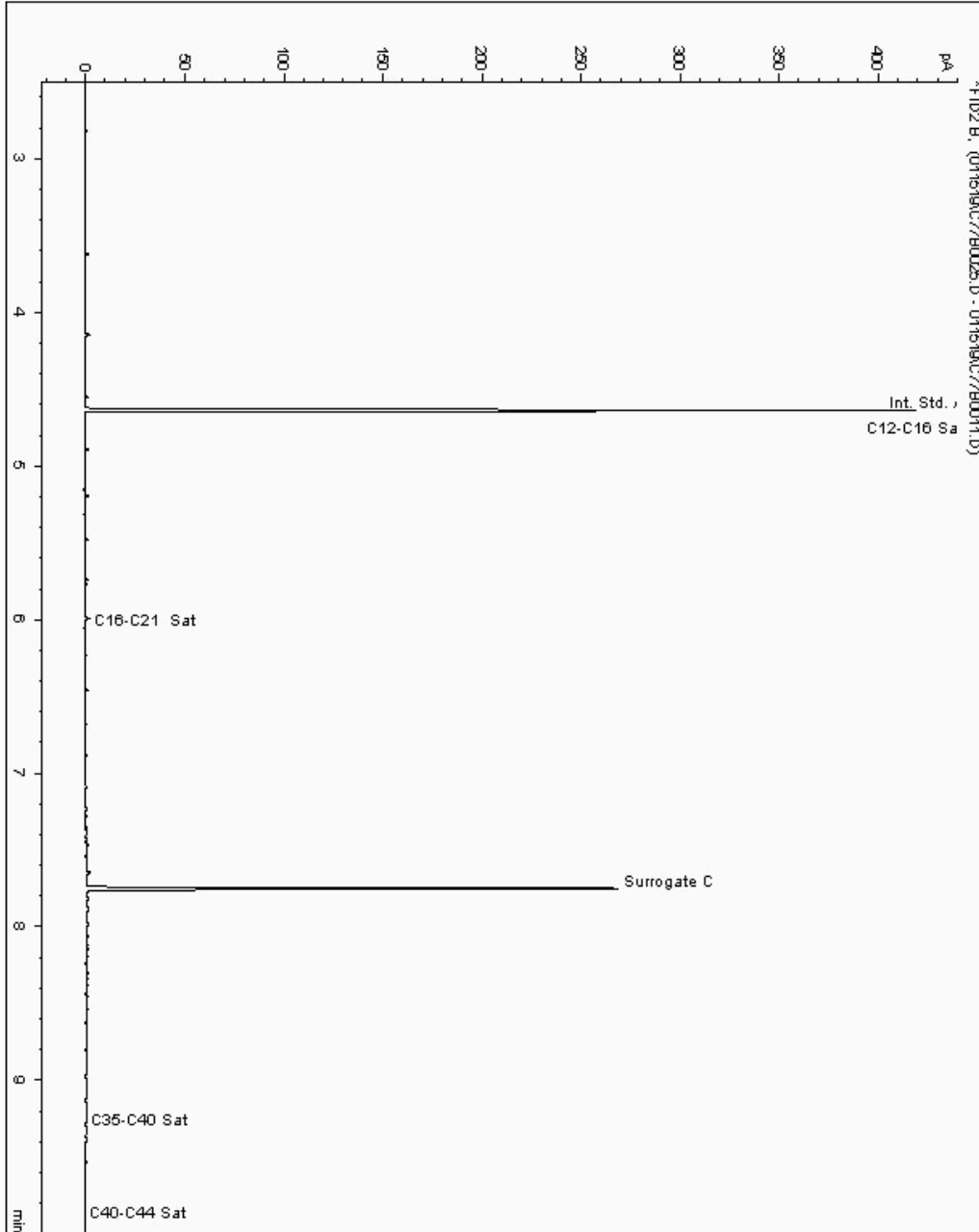
Analysis: EPH CWG (Aliphatic) GC (S)
19109522

Sample No :
Sample ID : BH218

19,109,522 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948301-
Date Acquired : 1/16/2019 1:53:28 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

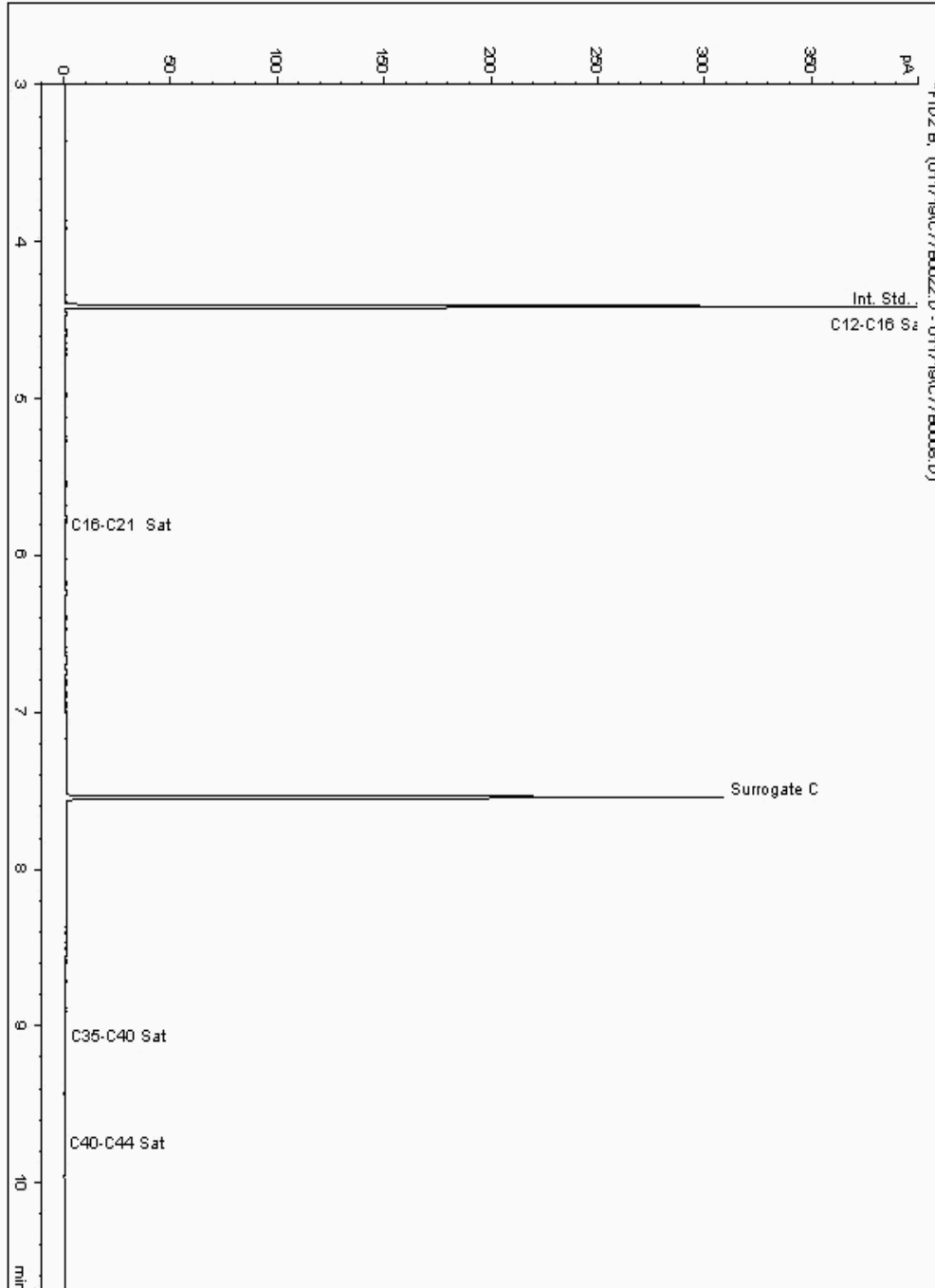
Analysis: EPH CWG (Aliphatic) GC (S)
19109526

Sample No :
Sample ID : BH219

19,109,526 Depth : 8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946828-
Date Acquired : 18/01/2019 13:00:18 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

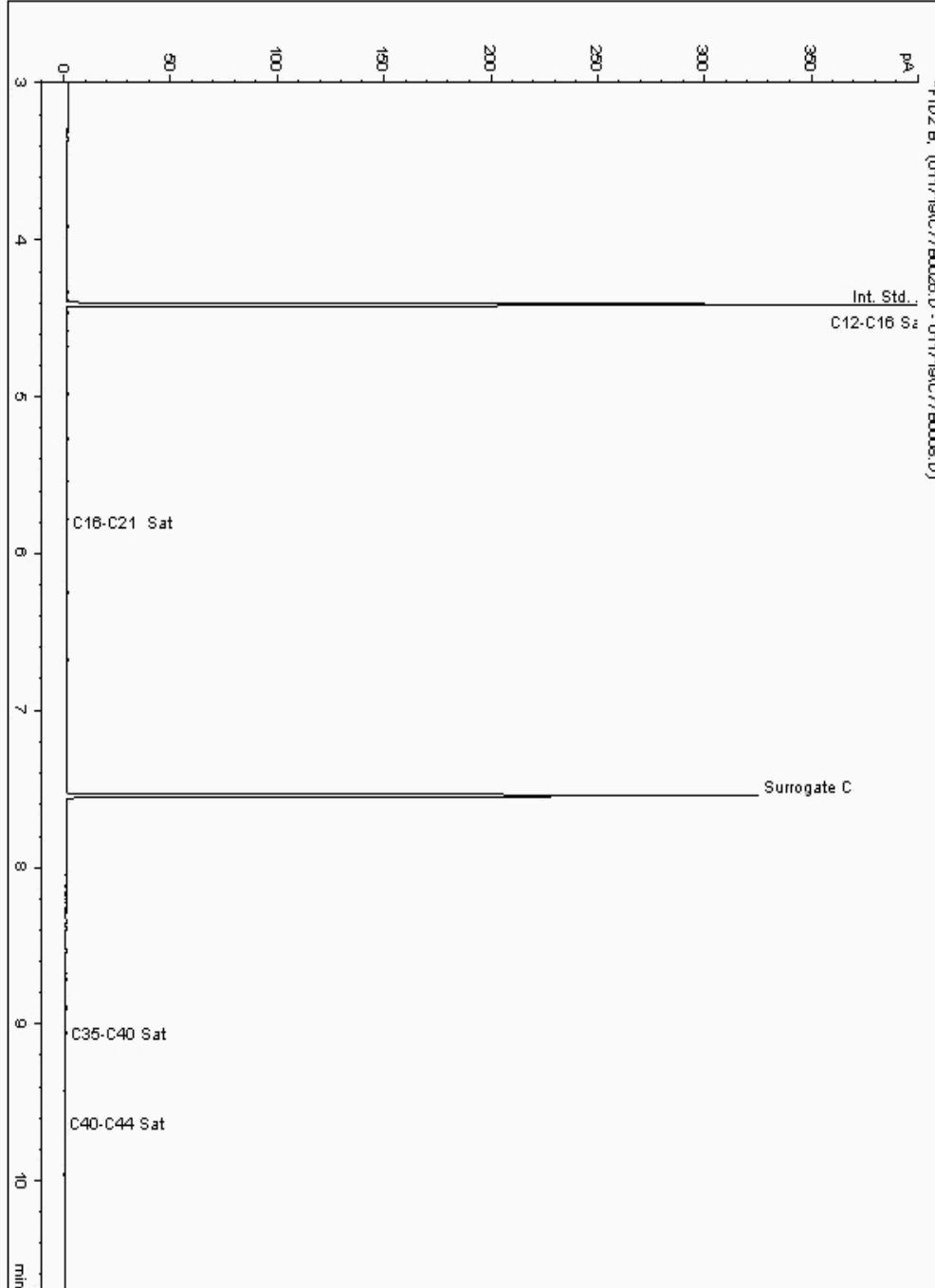
Analysis: EPH CWG (Aliphatic) GC (S)
19109583

Sample No :
Sample ID : BH222

19,109,583 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947150-
Date Acquired : 18/01/2019 14:20:58 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

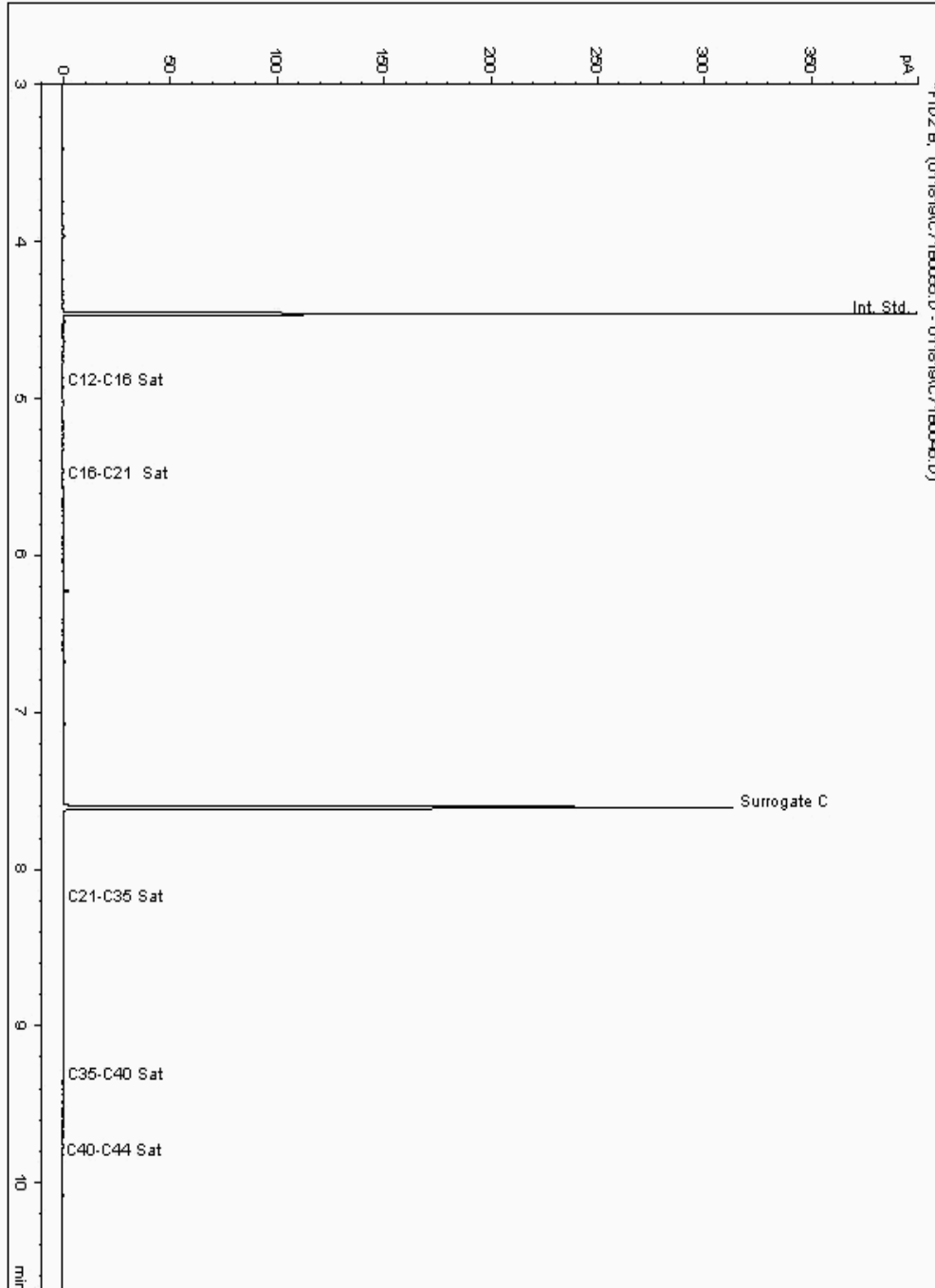
Analysis: EPH CWG (Aliphatic) GC (S)
19109653

Sample No :
Sample ID : BH222

19,109,653 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947120-
Date Acquired : 19/01/2019 01:29:47 PM
Units : ppb
Dilution: BH222[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

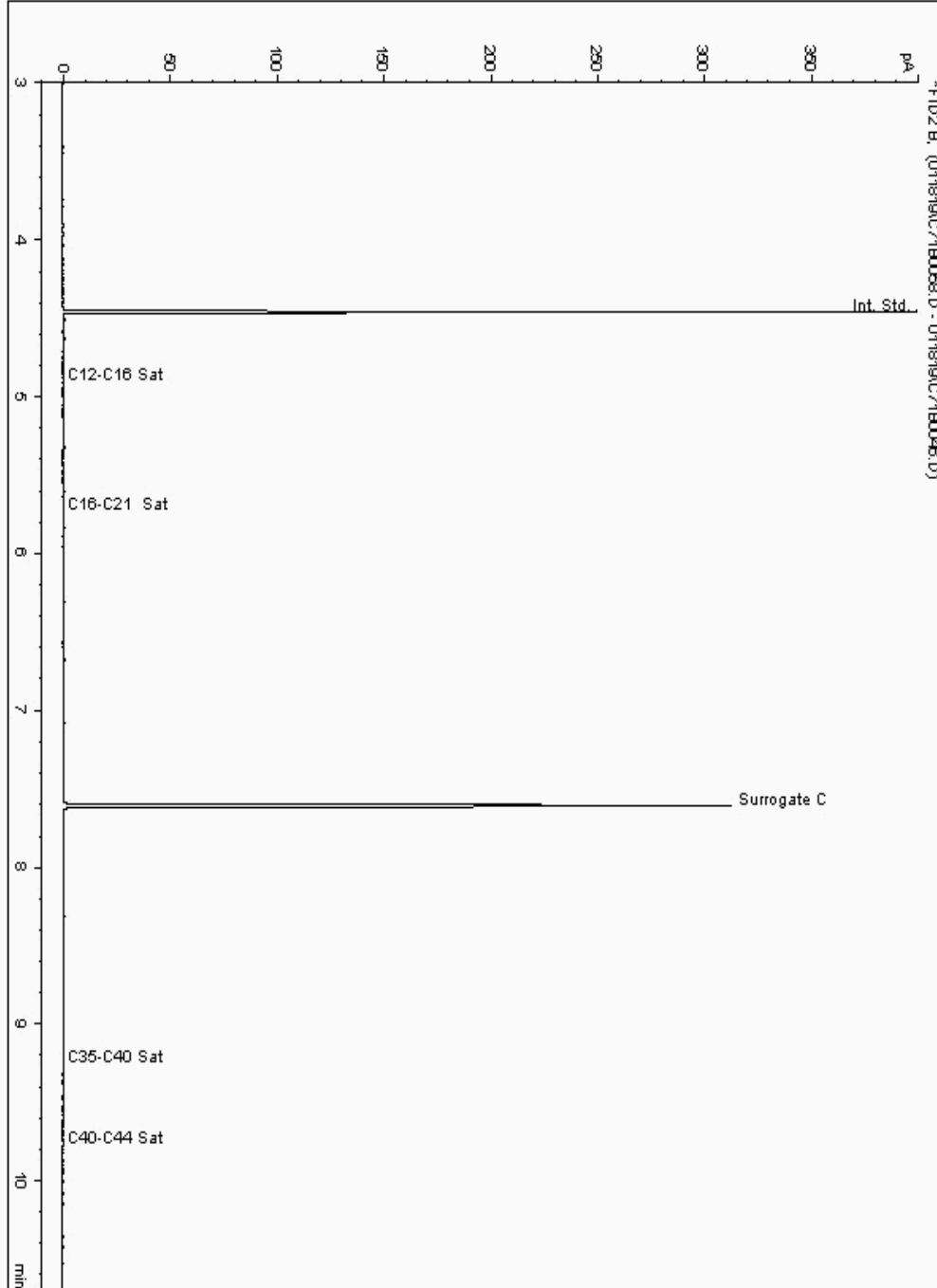
Analysis: EPH CWG (Aliphatic) GC (S)
19109746

Sample No :
Sample ID : BH222

19,109,746Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947196-
Date Acquired : 19/01/2019 02:22:46 PM
Units : ppb
Dilution: BH222[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

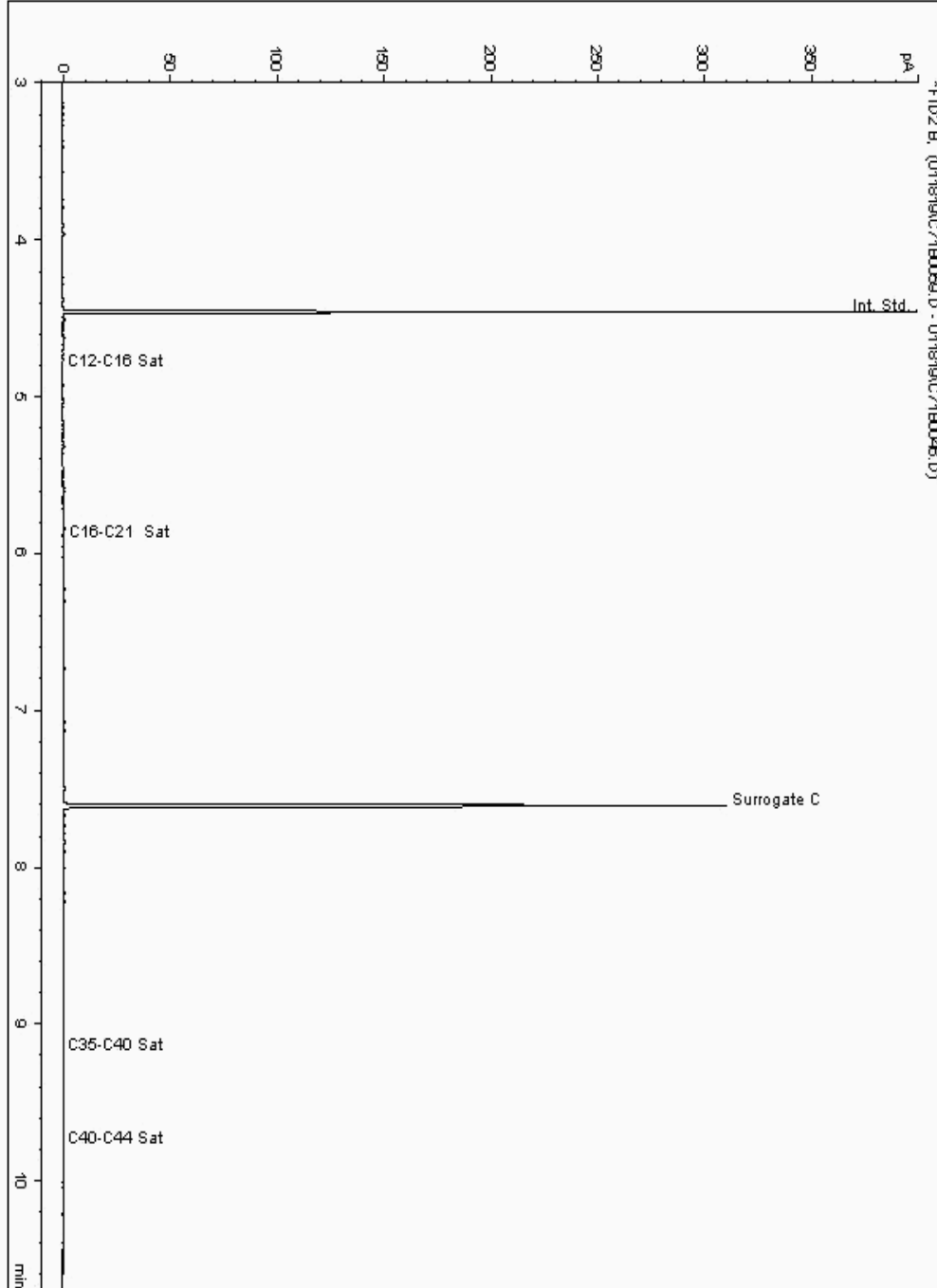
Analysis: EPH CWG (Aliphatic) GC (S)
19109758

Sample No :
Sample ID : BH223

19,109,758Depth :0.00 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946754-
Date Acquired : 19/01/2019 02:43:00 PM
Units : ppb
Dilution: BH223[0.00 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

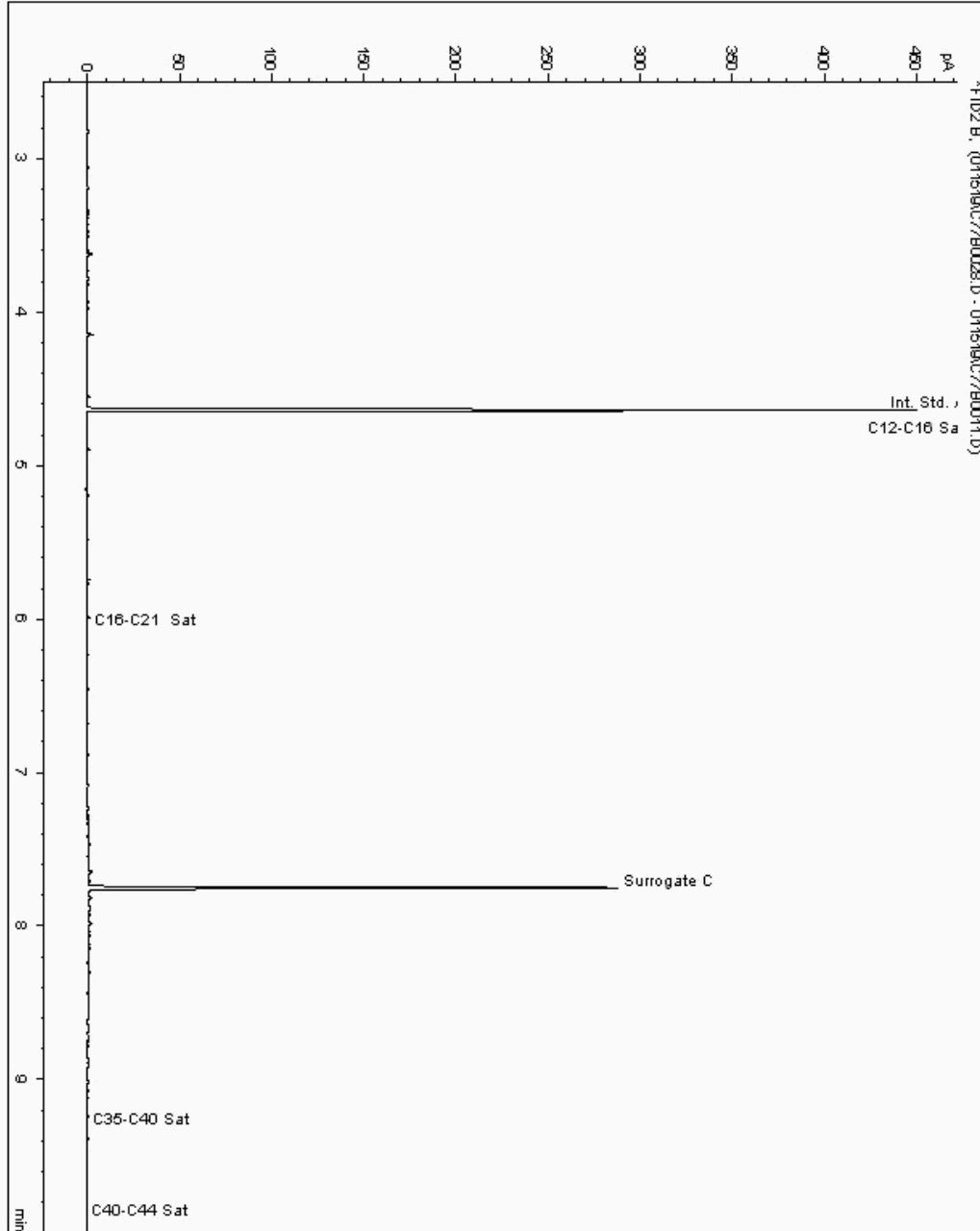
Analysis: EPH CWG (Aliphatic) GC (S)
19109781

Sample No :
Sample ID : BH218

19,109,781 Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948278-
Date Acquired : 1/16/2019 2:53:57 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

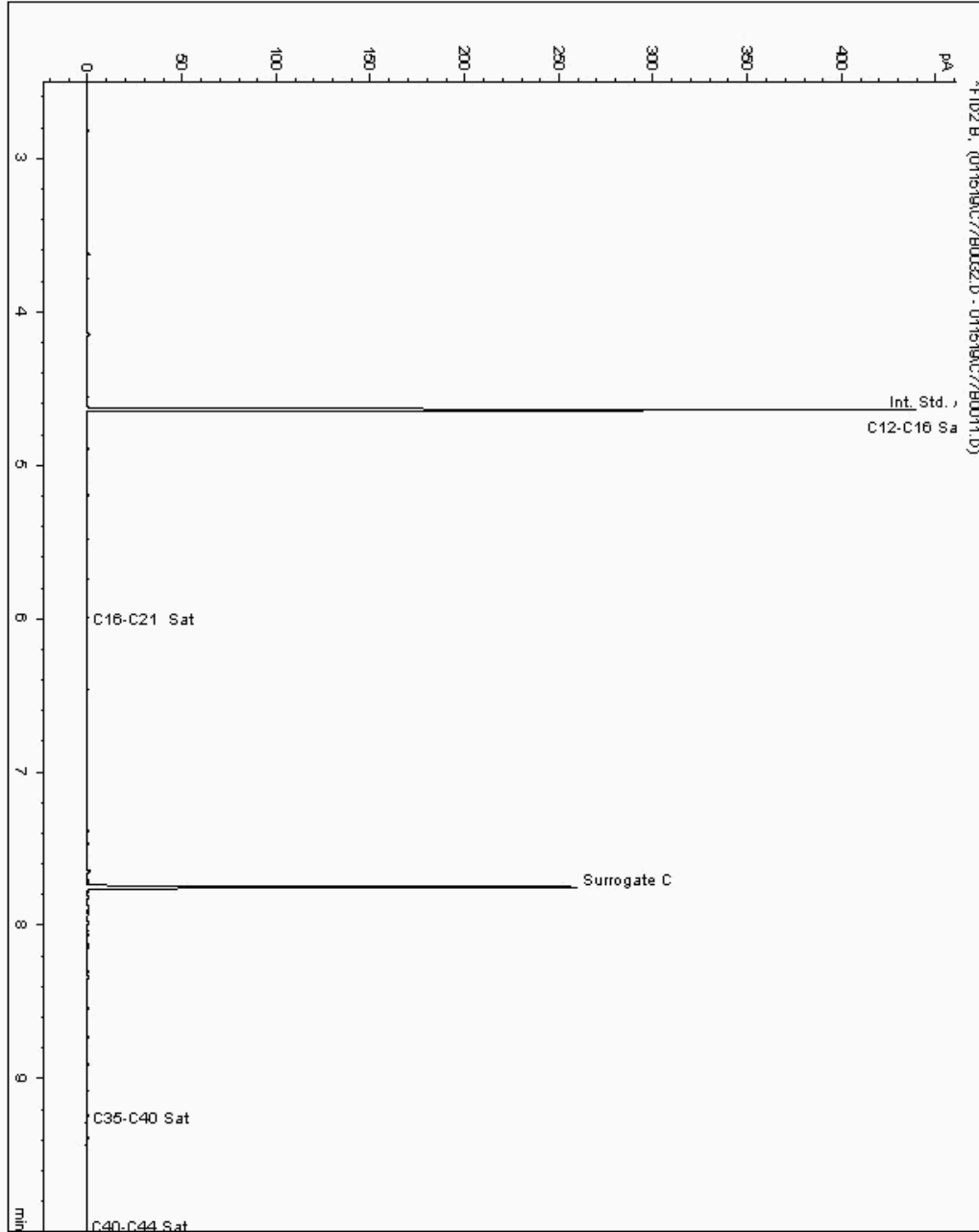
Analysis: EPH CWG (Aliphatic) GC (S)
19109808

Sample No :
Sample ID : BH218

19,109,808 Depth : 12.00 - 13.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948252-
Date Acquired : 1/16/2019 4:06:28 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

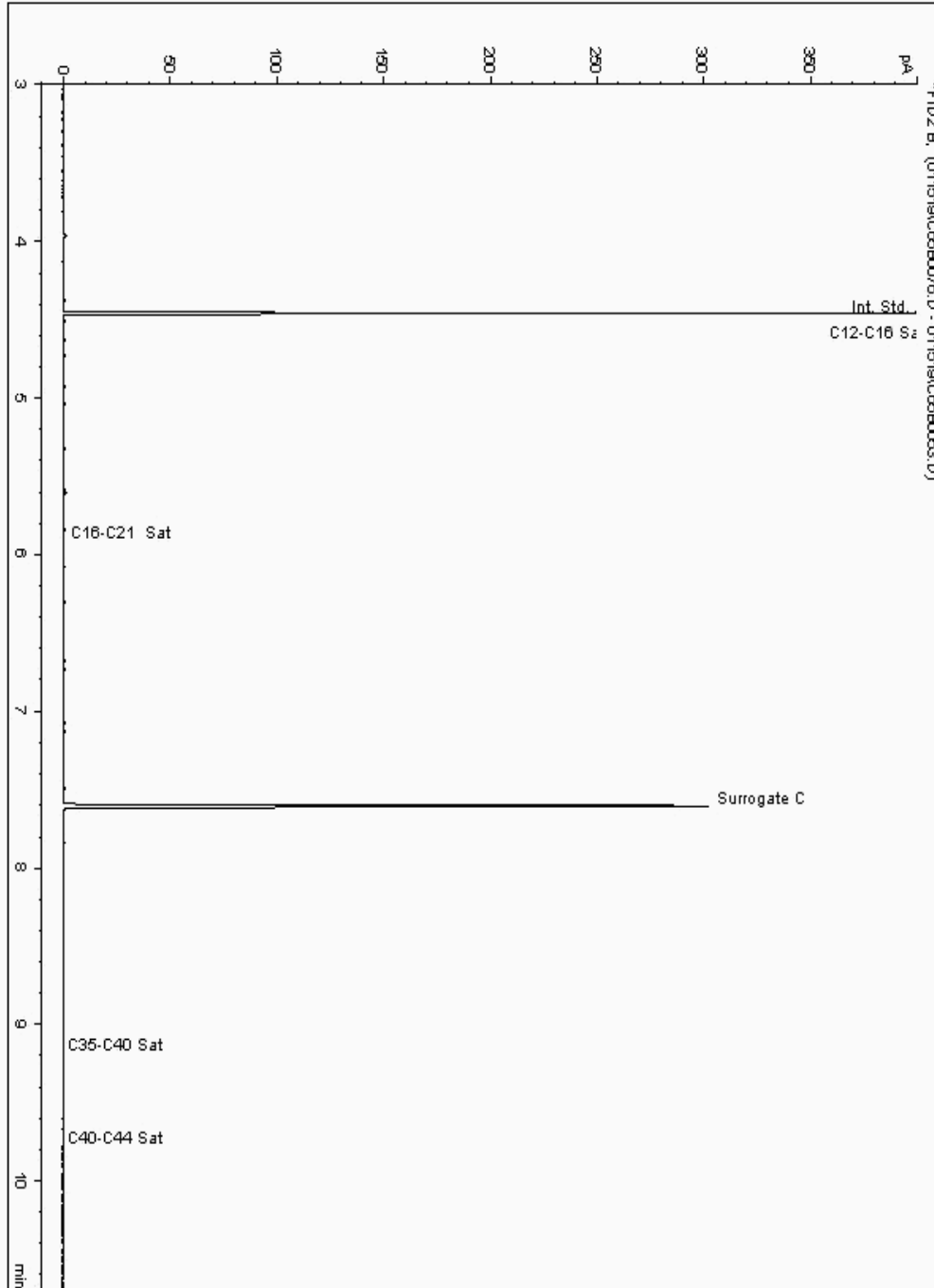
Analysis: EPH CWG (Aliphatic) GC (S)
19109927

Sample No :
Sample ID : BH224

19,109,927 Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947787-
Date Acquired : 17/01/2019 17:51:57 PM
Units : ppb
Dilution: BH224[11.00 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

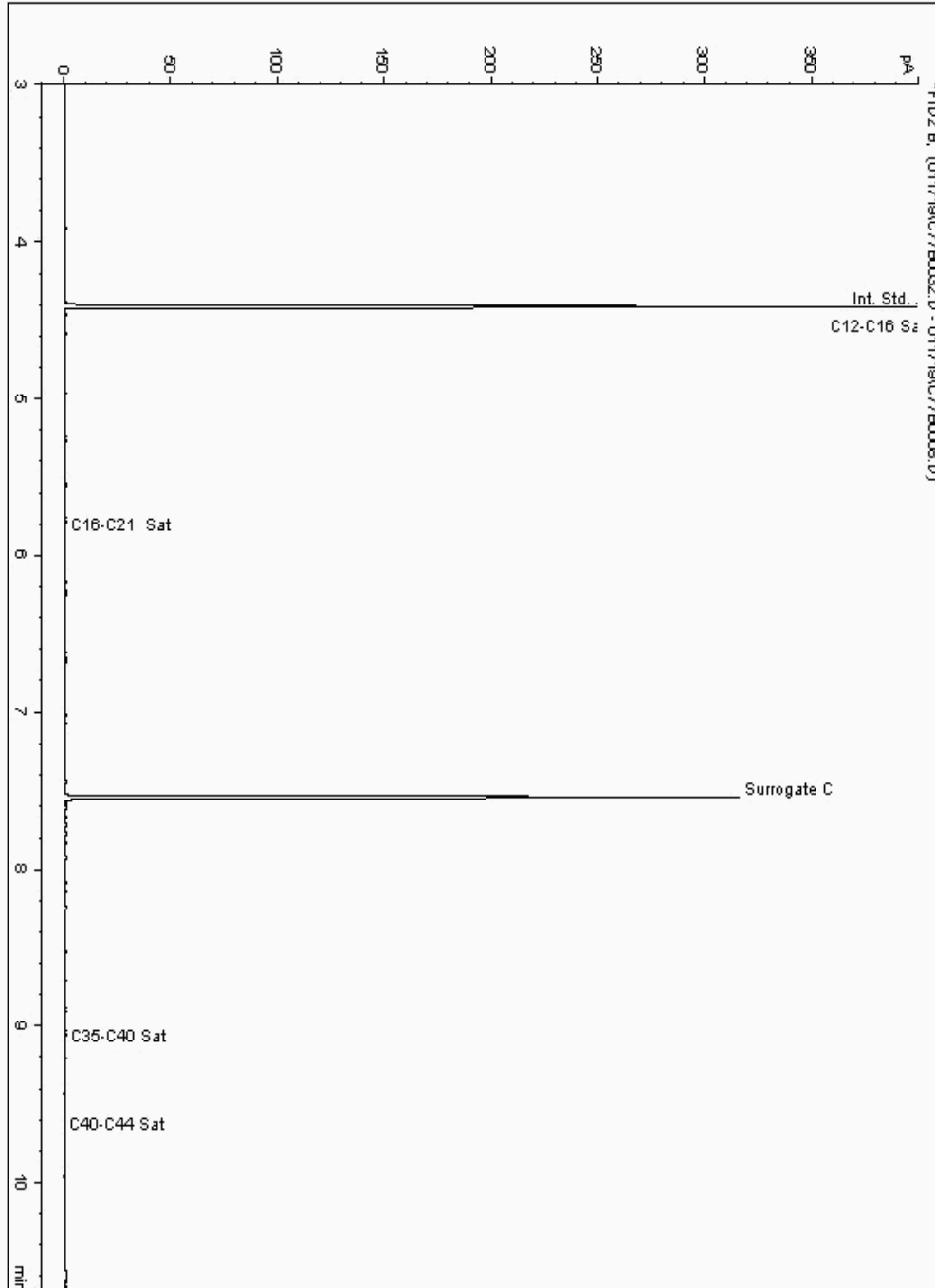
Analysis: EPH CWG (Aliphatic) GC (S)
19110020

Sample No :
Sample ID : BH223

19,110,020 Depth : 6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946641-
Date Acquired : 18/01/2019 15:57:51 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

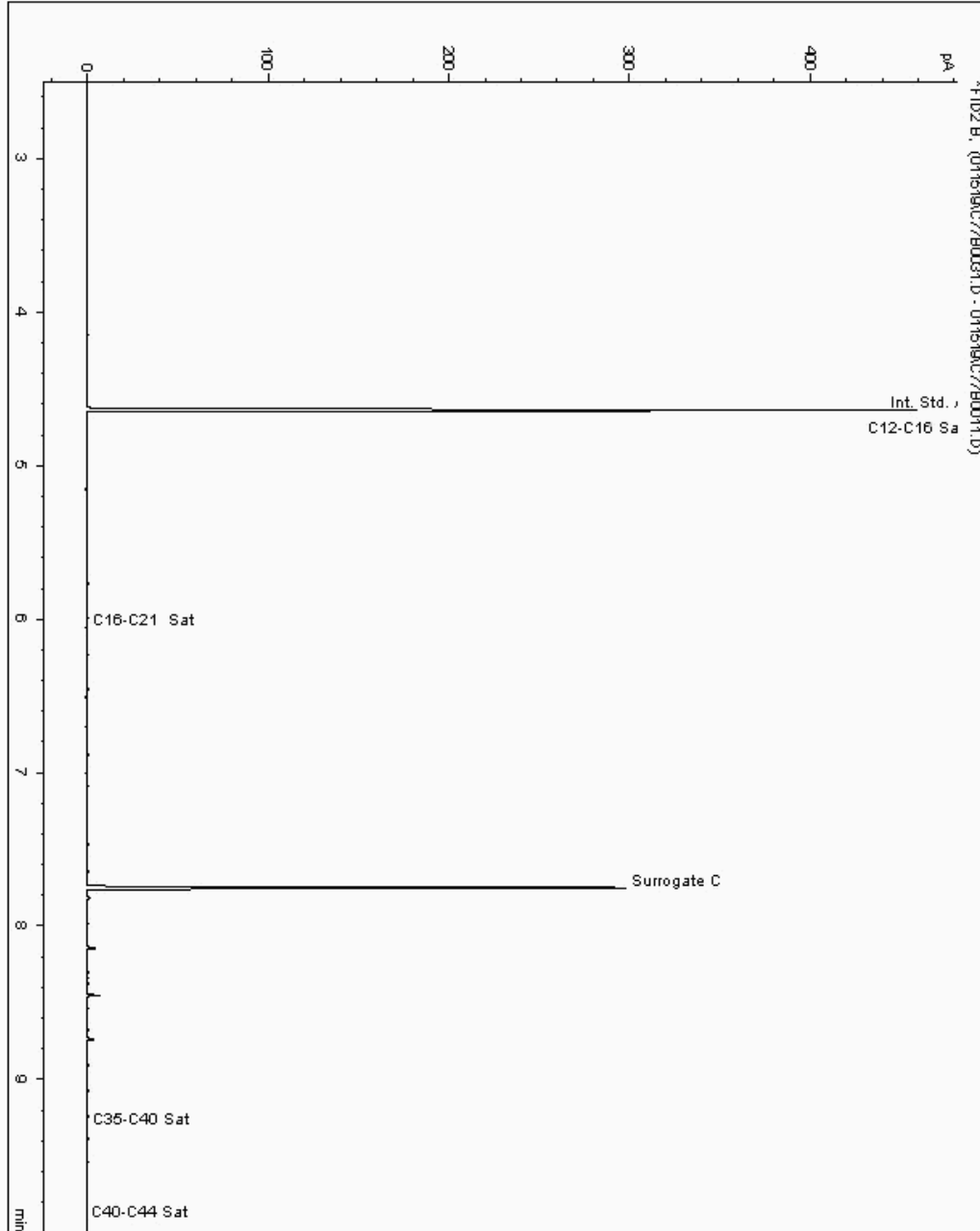
Analysis: EPH CWG (Aliphatic) GC (S)
19110047

Sample No :
Sample ID : BH235

19,110,047Depth :0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947670-
Date Acquired : 1/16/2019 3:46:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

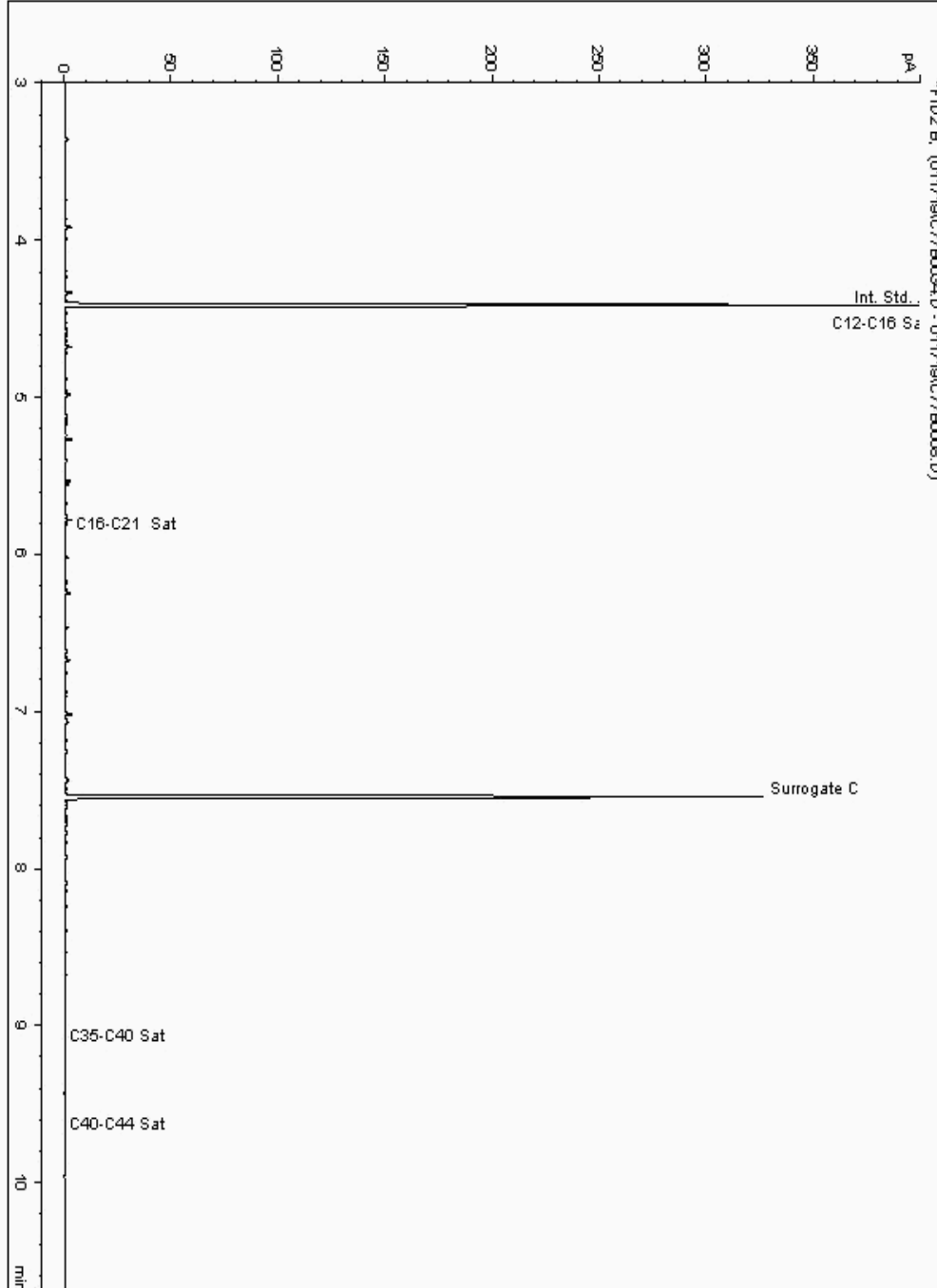
Analysis: EPH CWG (Aliphatic) GC (S)
19110203

Sample No :
Sample ID : BH222

19,110,203 Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947062-
Date Acquired : 18/01/2019 16:38:08 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

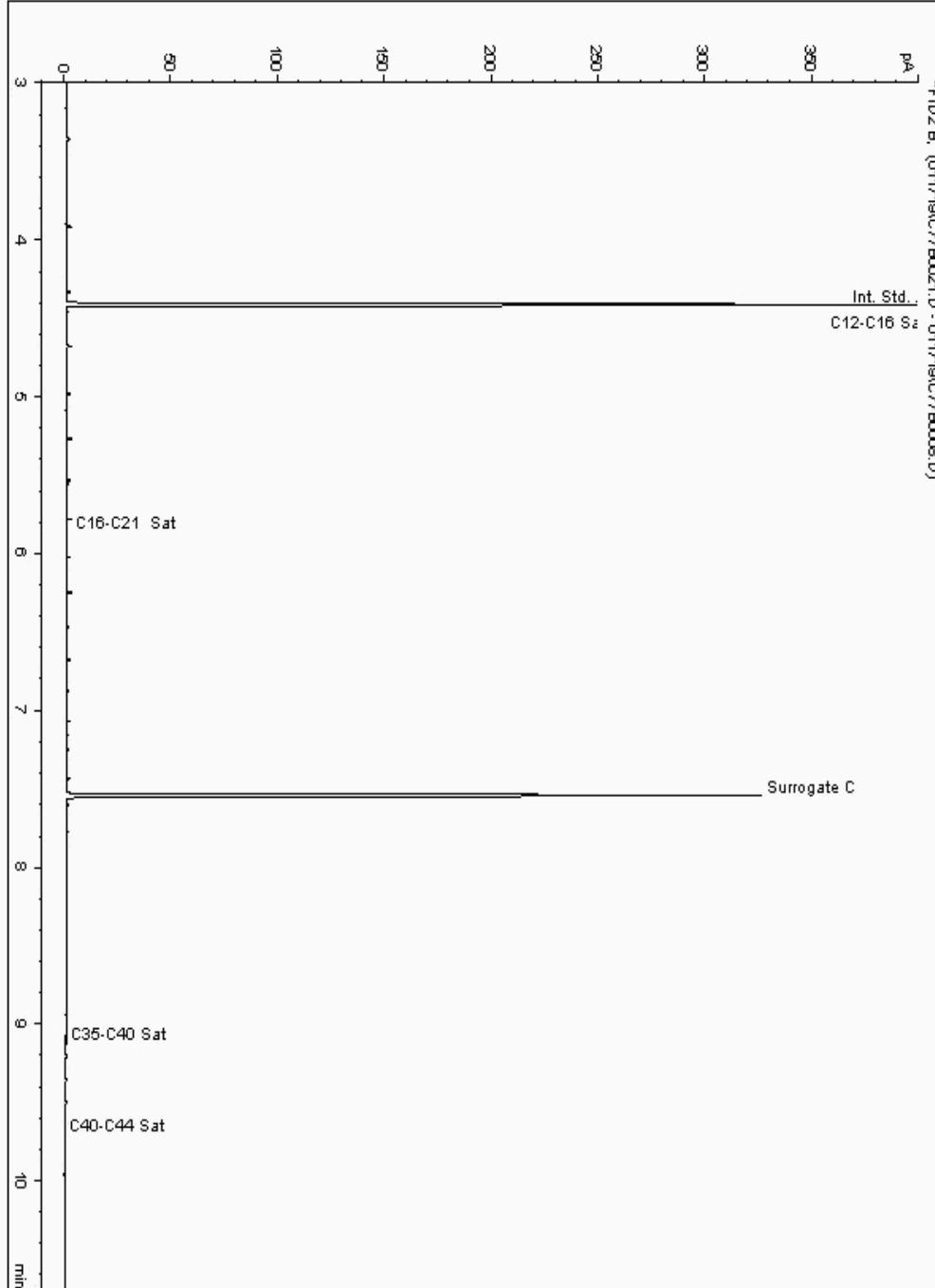
Analysis: EPH CWG (Aliphatic) GC (S)
19110211

Sample No :
Sample ID : BH219

19,110,211 Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947039-
Date Acquired : 18/01/2019 12:40:12 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

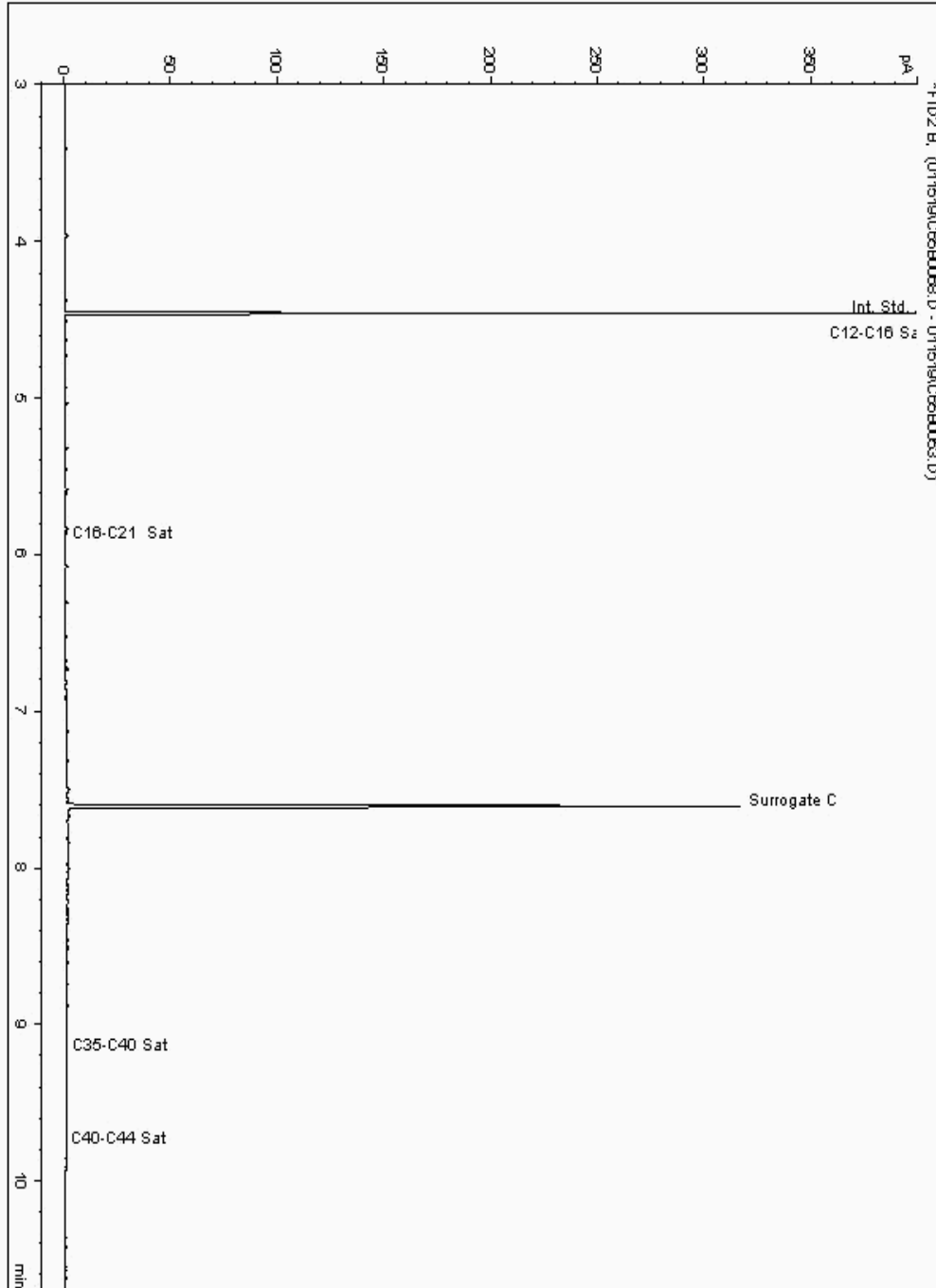
Analysis: EPH CWG (Aliphatic) GC (S)
19110228

Sample No :
Sample ID : BH224

19,110,228Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948045-
Date Acquired : 17/01/2019 15:33:53 PM
Units : ppb
Dilution: BH224[0.00 - 0.50] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

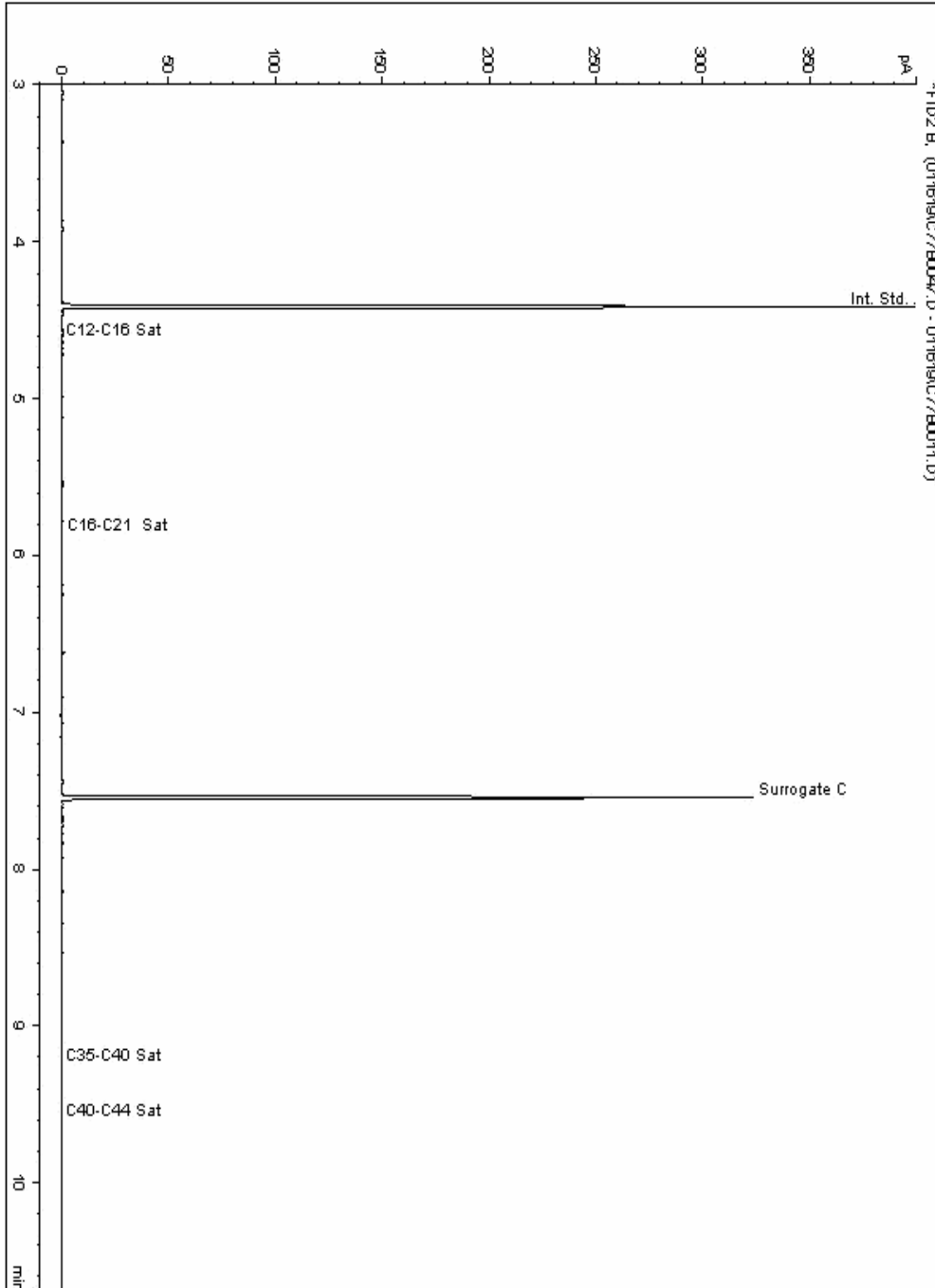
Analysis: EPH CWG (Aliphatic) GC (S)
19110245

Sample No :
Sample ID : BH224

19,110,245 Depth : 9.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947810-
Date Acquired : 17/01/2019 01:47:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

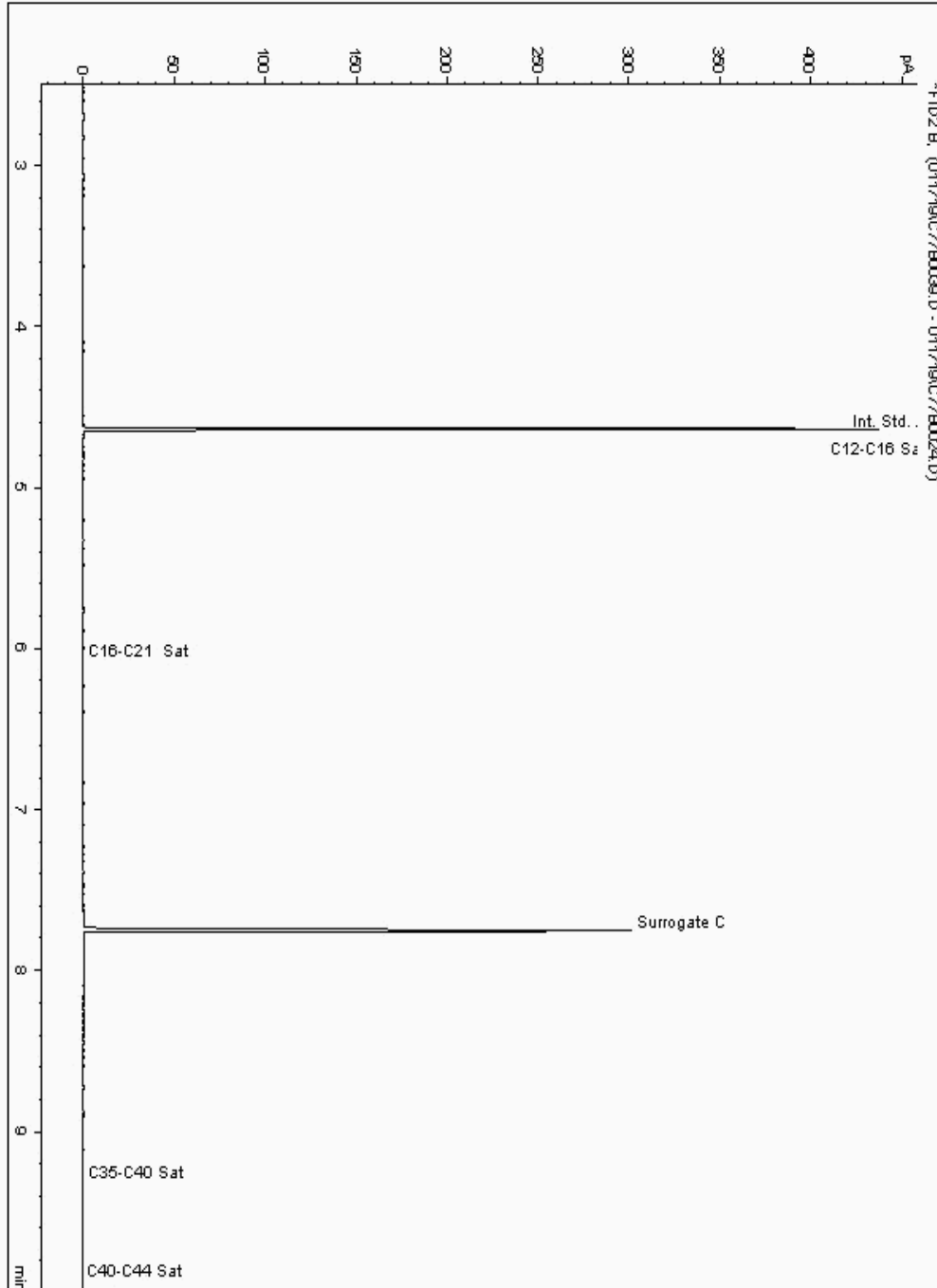
Analysis: EPH CWG (Aliphatic) GC (S)
19110302

Sample No :
Sample ID : BH219

19,110,302Depth : 10.50 - 11.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946778-
Date Acquired : 1/17/2019 6:49:41 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

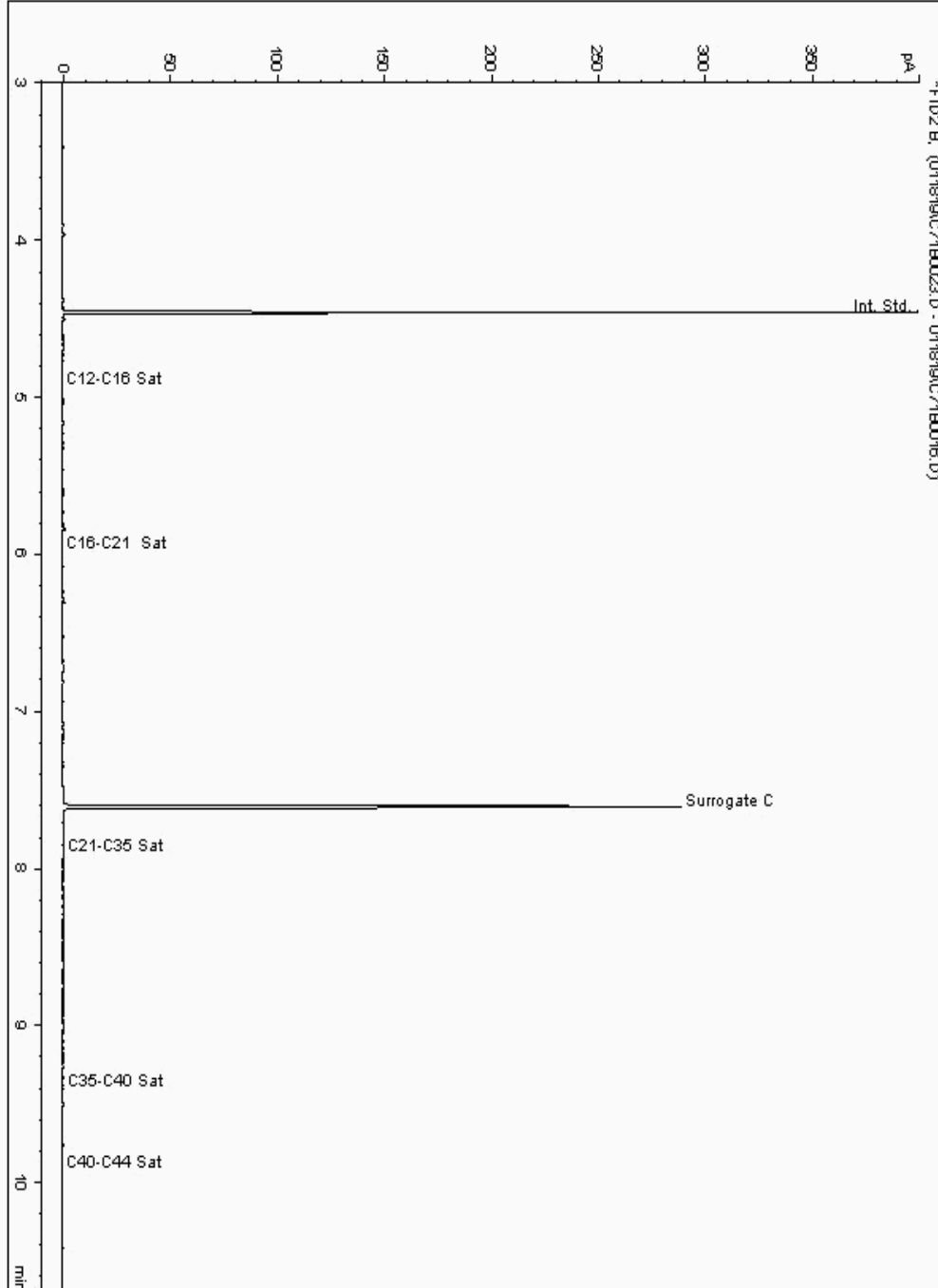
Analysis: EPH CWG (Aliphatic) GC (S)
19110321

Sample No :
Sample ID : BH222

19,110,321 Depth : 7.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947173-
Date Acquired : 18/01/2019 15:03:28 PM
Units : ppb
Dilution: BH222[7.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

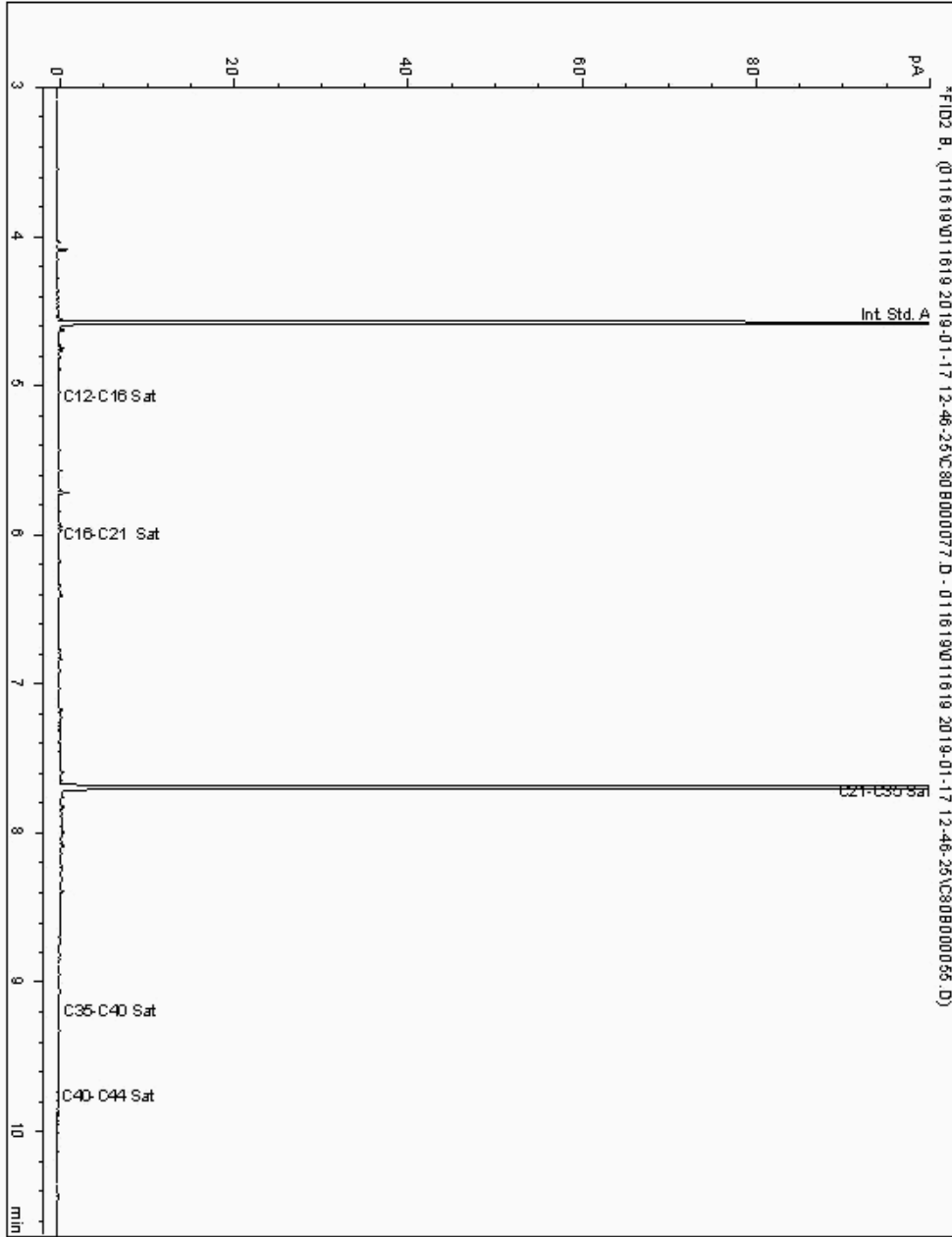
Analysis: EPH CWG (Aliphatic) GC (S)
19110391

Sample No :
Sample ID : BH223

19,110,391 Depth : 5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946663-
Date Acquired : 17/01/19 20:05:39
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

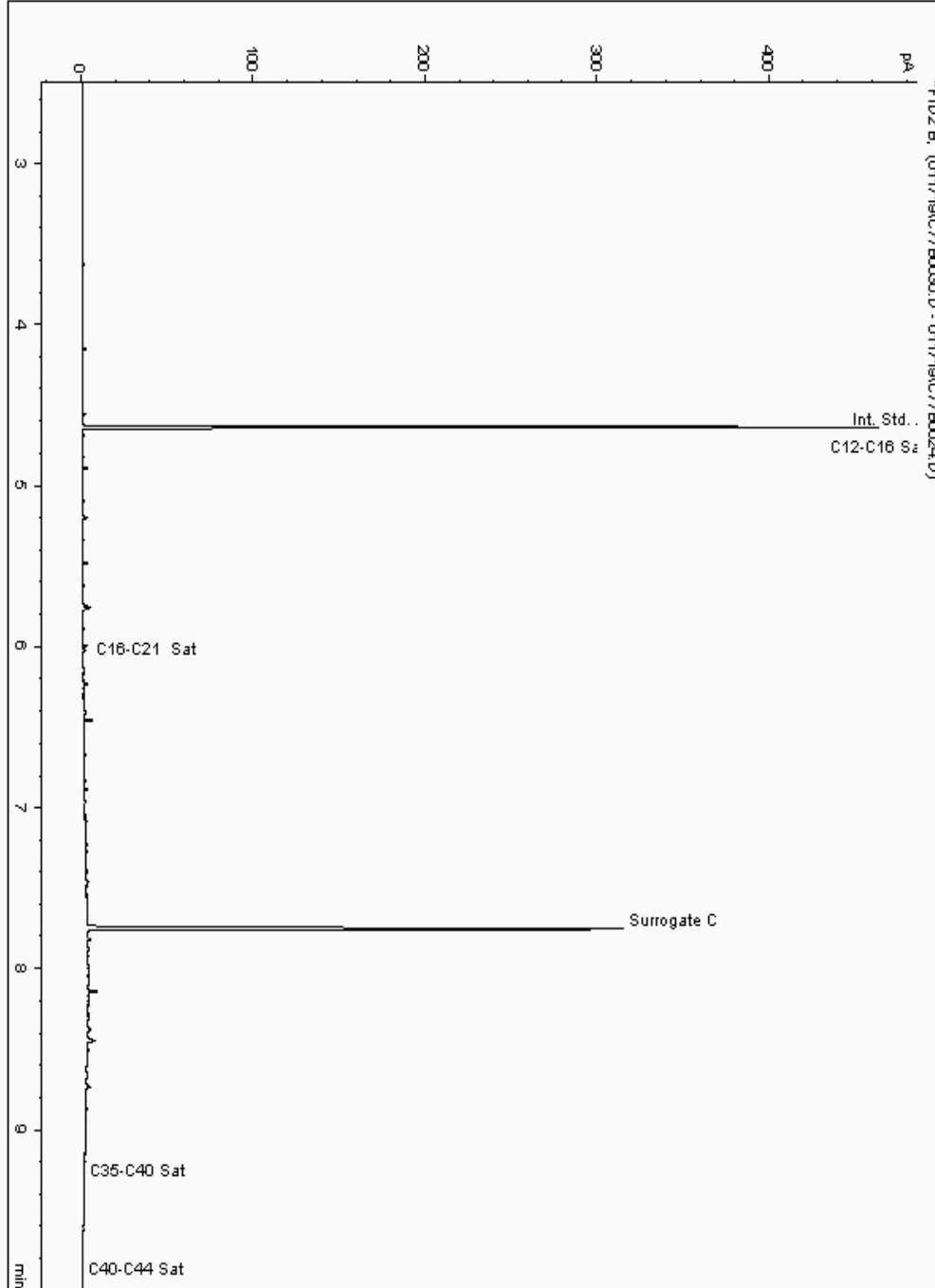
Analysis: EPH CWG (Aliphatic) GC (S)
19110397

Sample No :
Sample ID : BH219

19,110,397Depth :5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946902-
Date Acquired : 1/17/2019 4:14:35 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

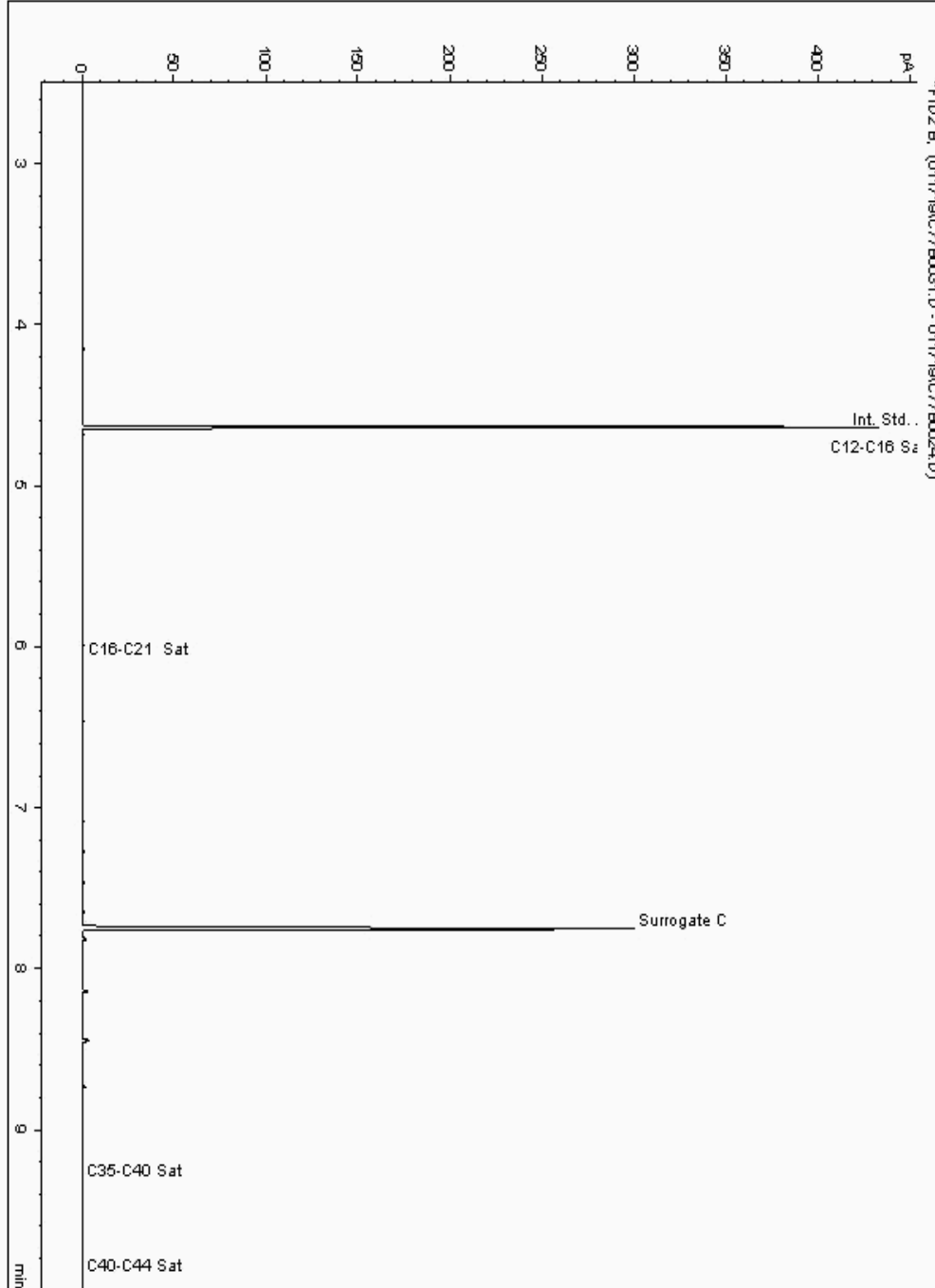
Analysis: EPH CWG (Aliphatic) GC (S)
19110433

Sample No :
Sample ID : BH222

19,110,433 Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947304-
Date Acquired : 1/17/2019 4:34:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

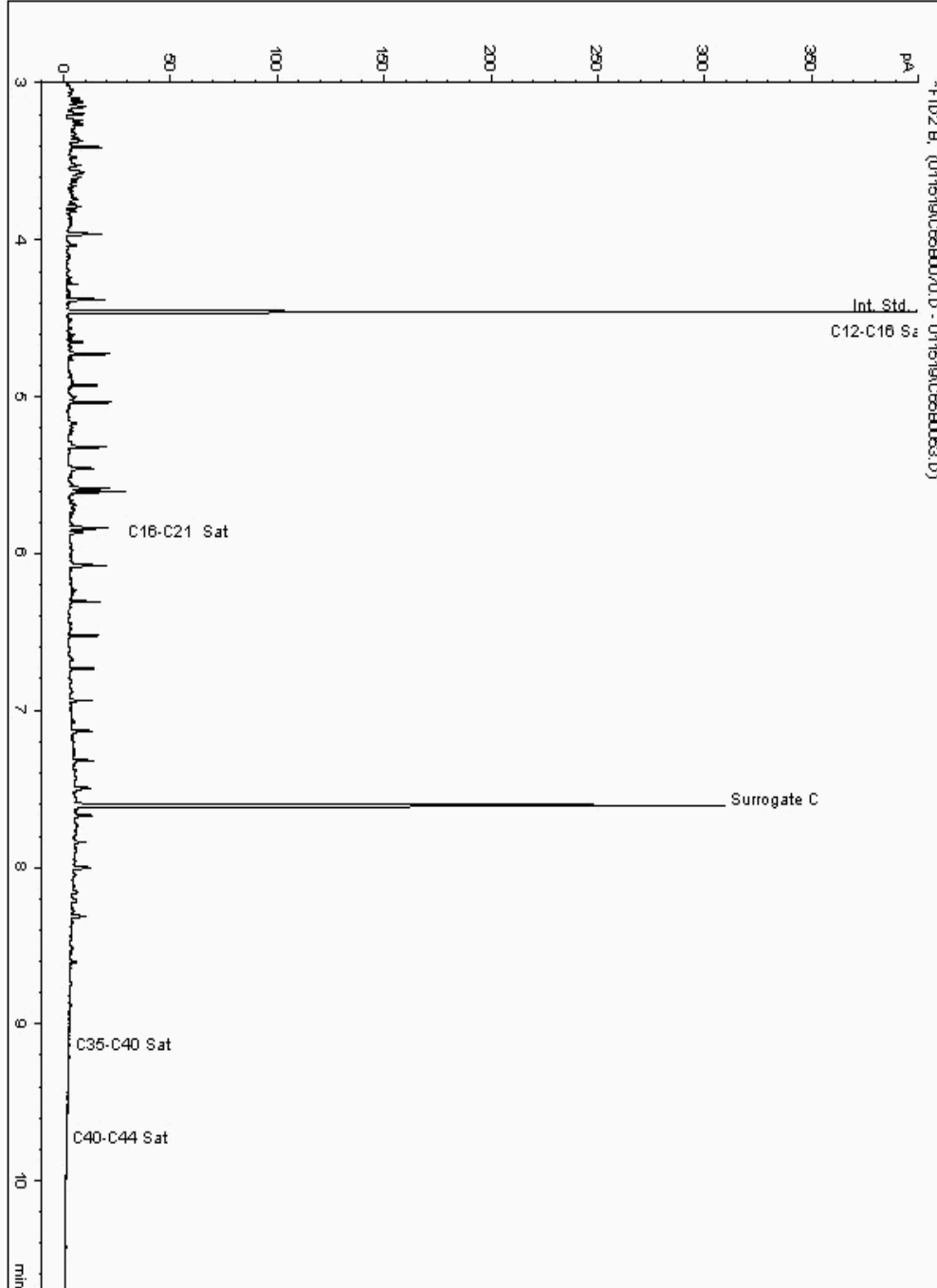
Analysis: EPH CWG (Aliphatic) GC (S)
19110437

Sample No :
Sample ID : BH224

19,110,437Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947856-
Date Acquired : 17/01/2019 16:14:36 PM
Units : ppb
Dilution: BH224[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

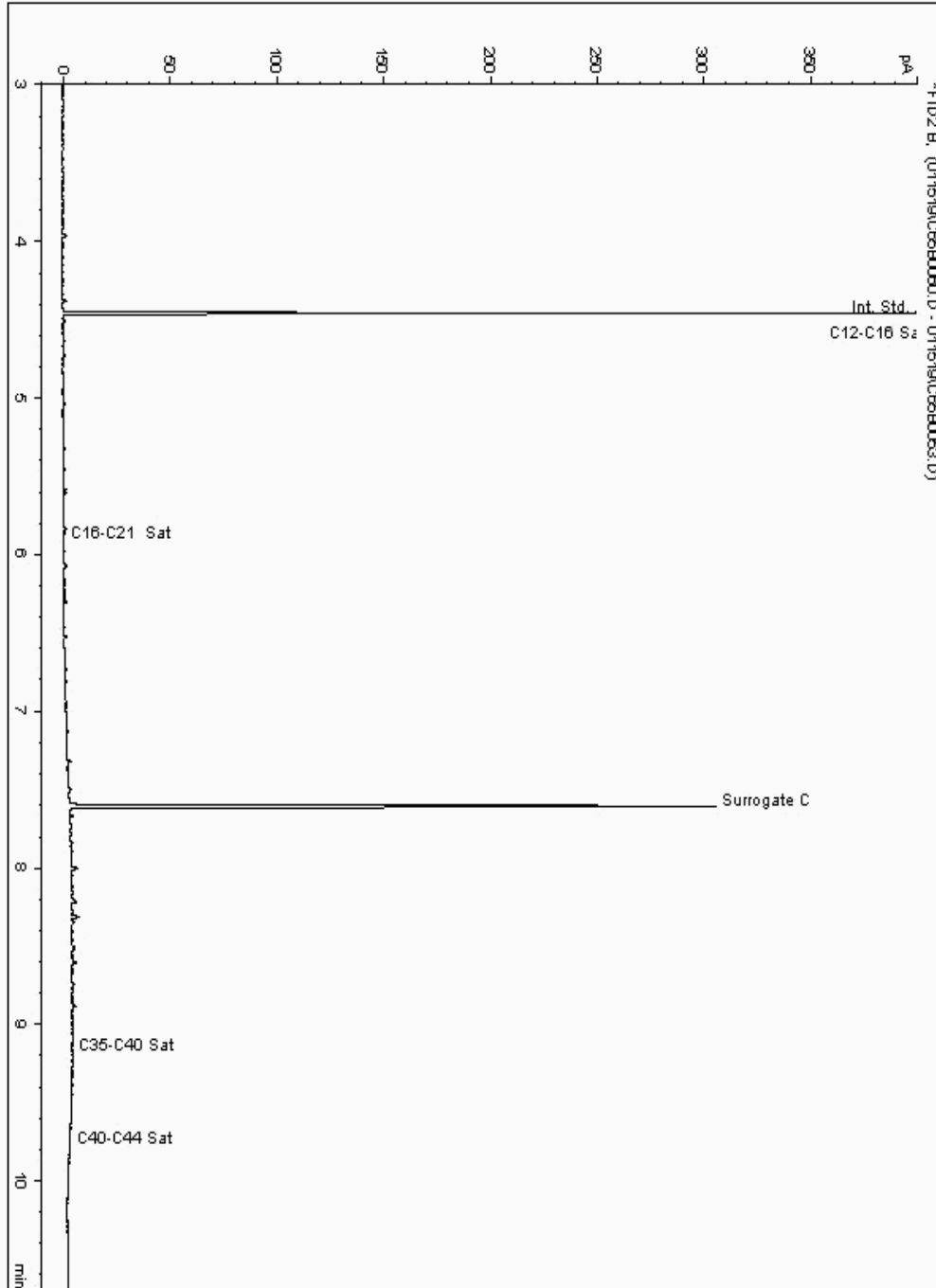
Analysis: EPH CWG (Aliphatic) GC (S)
19110463

Sample No :
Sample ID : BH235

19,110,463Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947693-
Date Acquired : 17/01/2019 13:15:23 PM
Units : ppb
Dilution: BH235[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

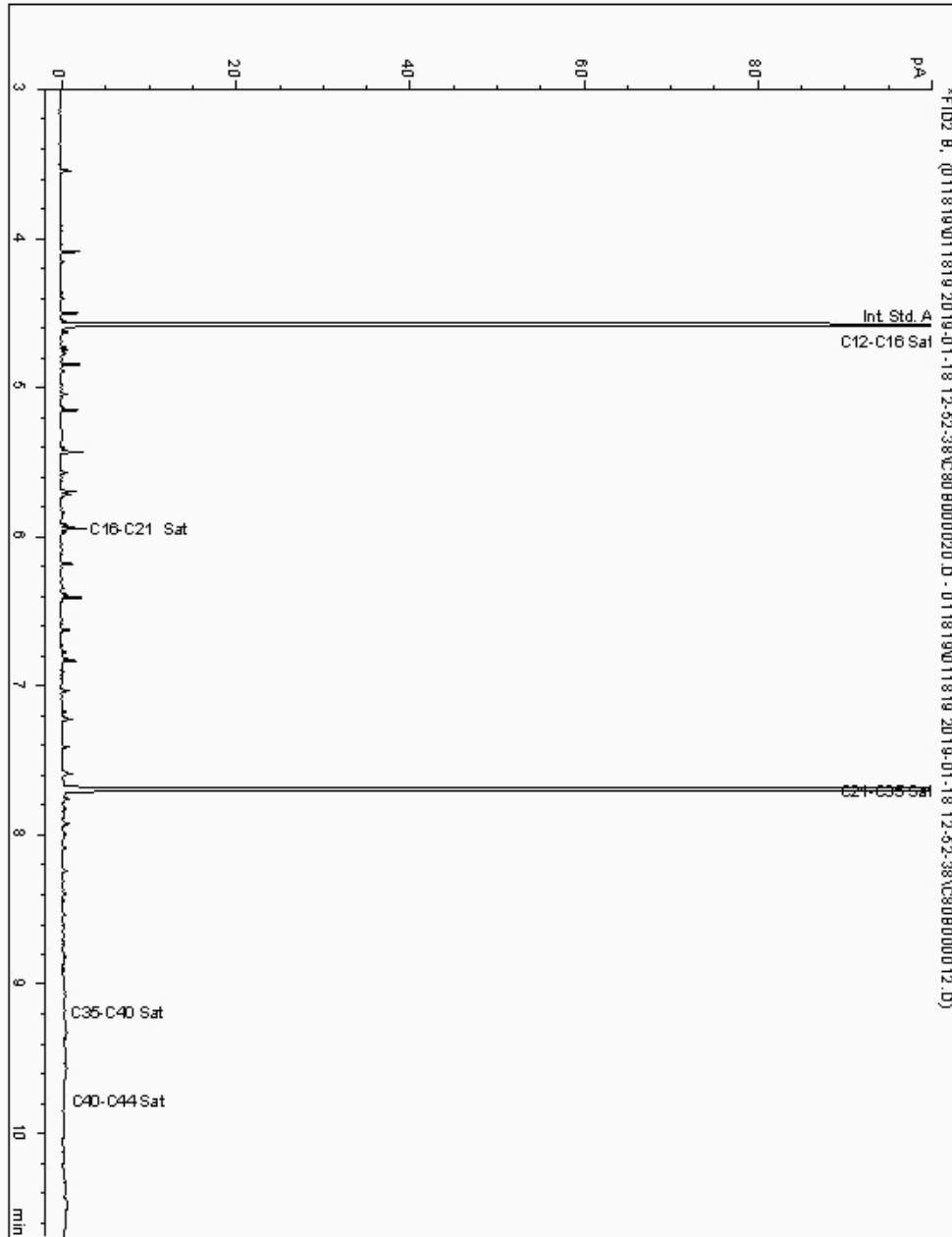
Analysis: EPH CWG (Aliphatic) GC (S)
19110562

Sample No :
Sample ID : BH223

19,110,562Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946525-
Date Acquired : 18/01/19 18:57:34
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

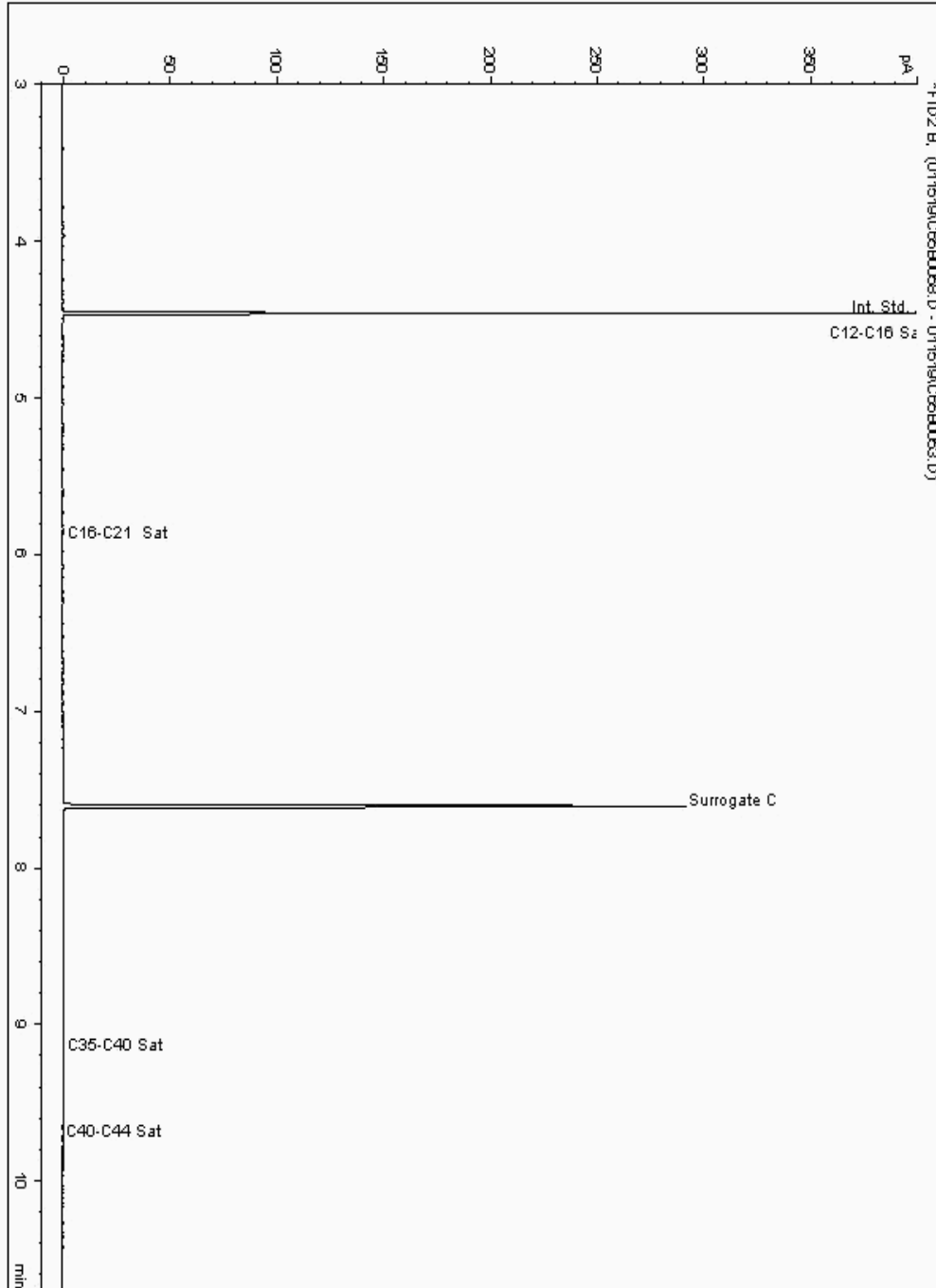
Analysis: EPH CWG (Aliphatic) GC (S)
19110583

Sample No :
Sample ID : BH235

19,110,583 Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947540-
Date Acquired : 17/01/2019 12:34:36 PM
Units : ppb
Dilution: BH235[7.00 - 8.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

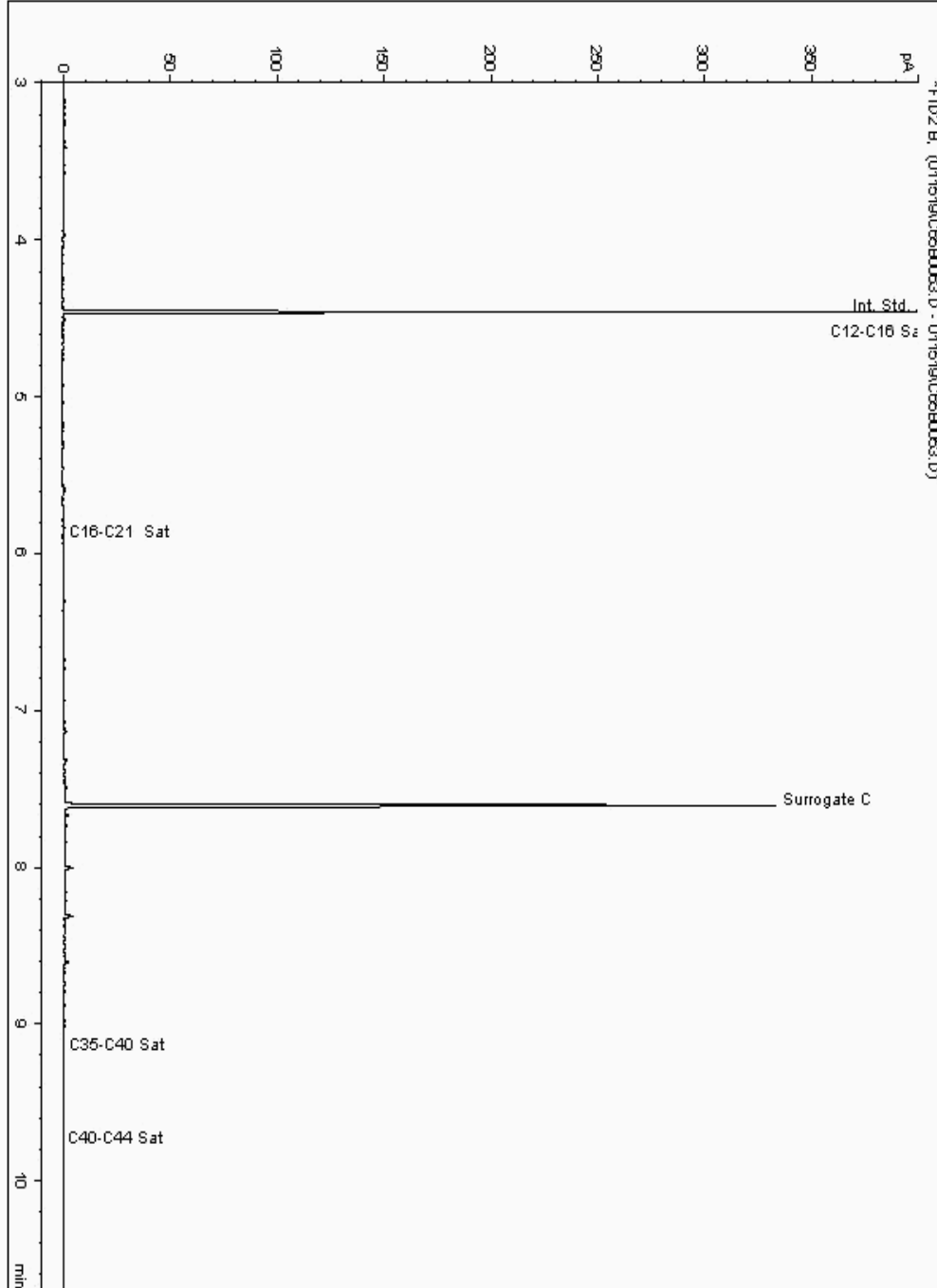
Analysis: EPH CWG (Aliphatic) GC (S)
19110596

Sample No :
Sample ID : BH218

19,110,596Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948159-
Date Acquired : 17/01/2019 13:59:18 PM
Units : ppb
Dilution: BH218[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

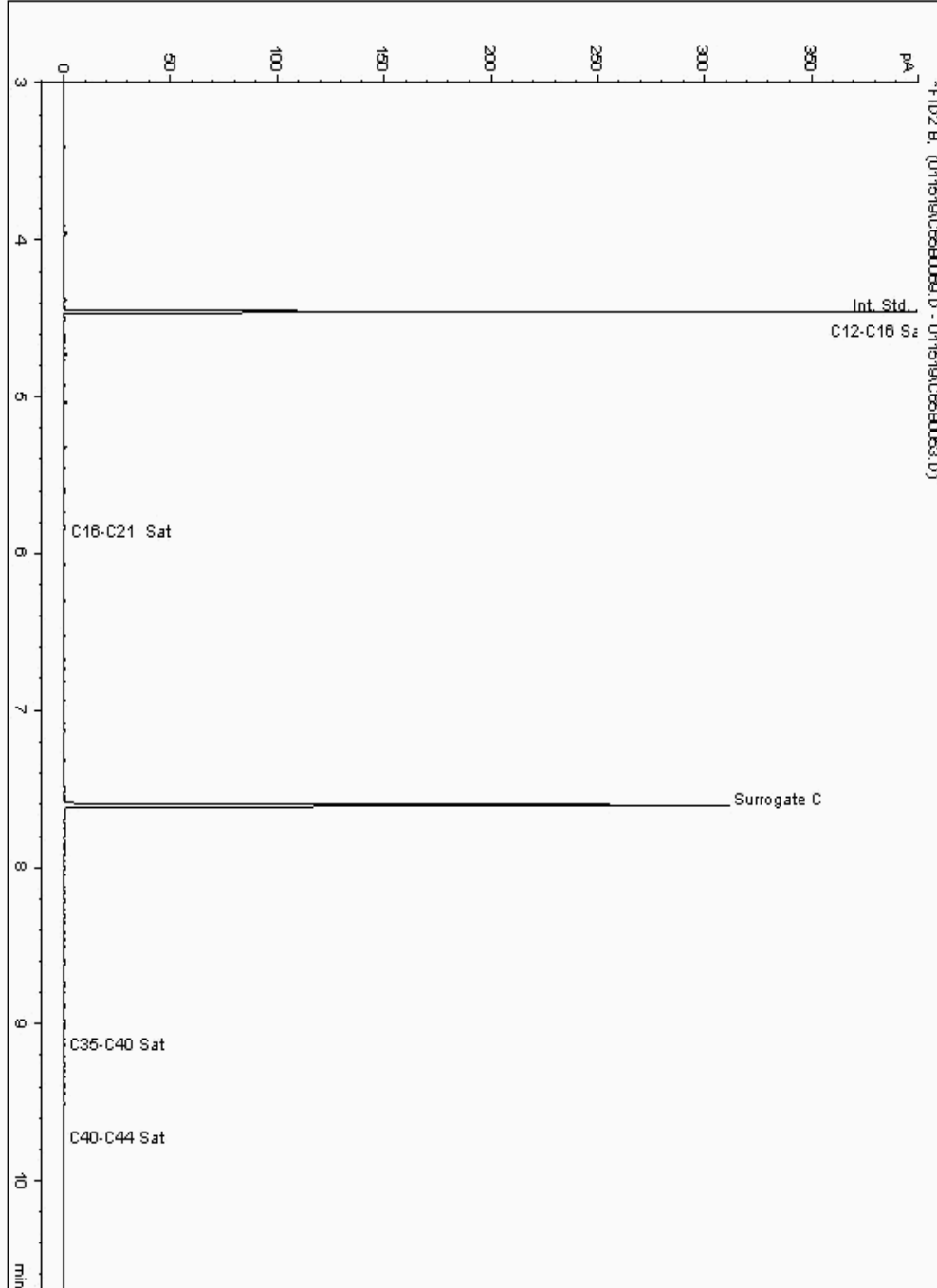
Analysis: EPH CWG (Aliphatic) GC (S)
19110614

Sample No :
Sample ID : BH235

19,110,614 Depth : 12.50 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947458-
Date Acquired : 17/01/2019 15:54:17 PM
Units : ppb
Dilution: BH235[12.50 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

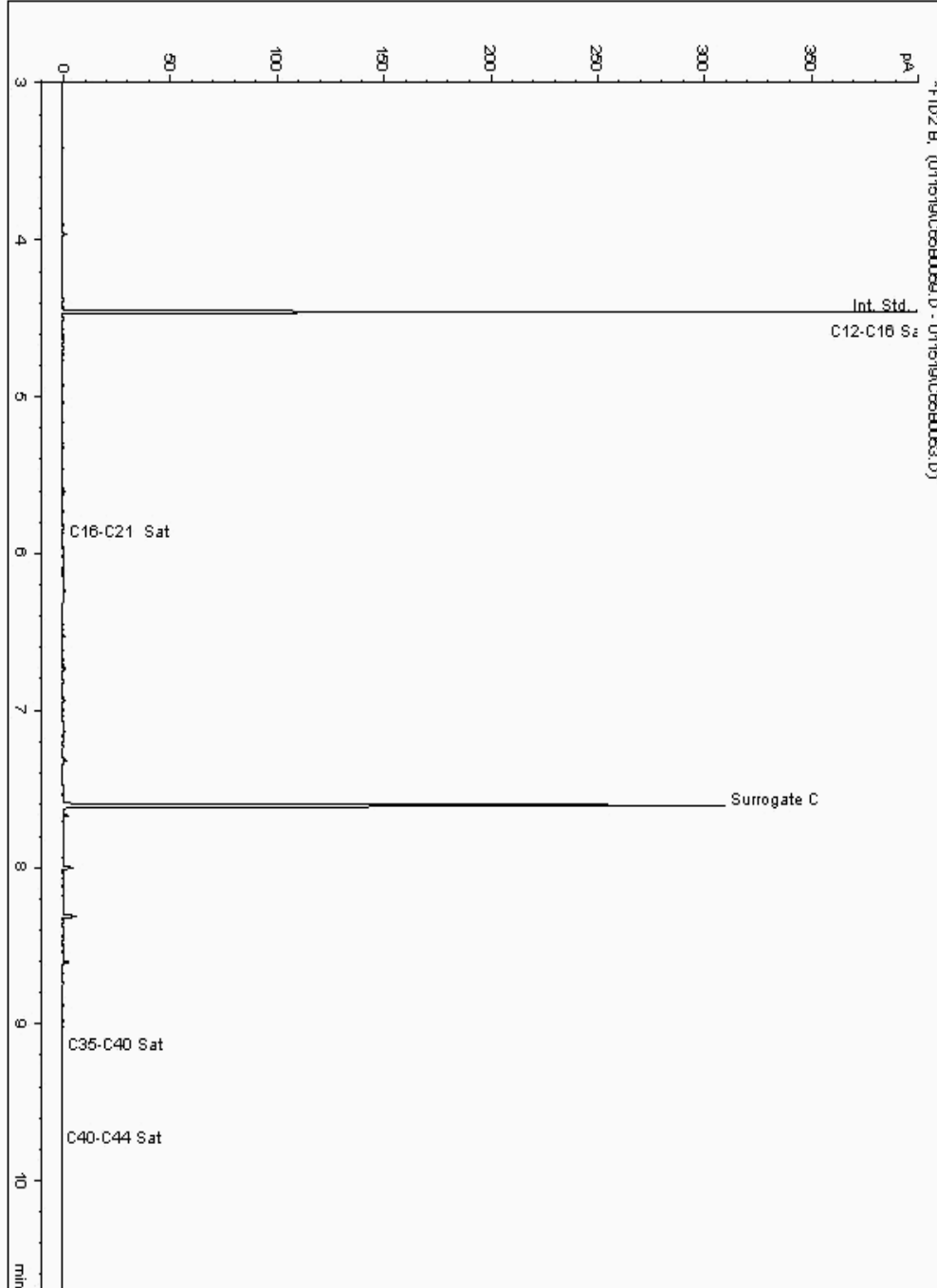
Analysis: EPH CWG (Aliphatic) GC (S)
19110637

Sample No :
Sample ID : BH235

19,110,637Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947645-
Date Acquired : 17/01/2019 12:54:50 PM
Units : ppb
Dilution: BH235[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

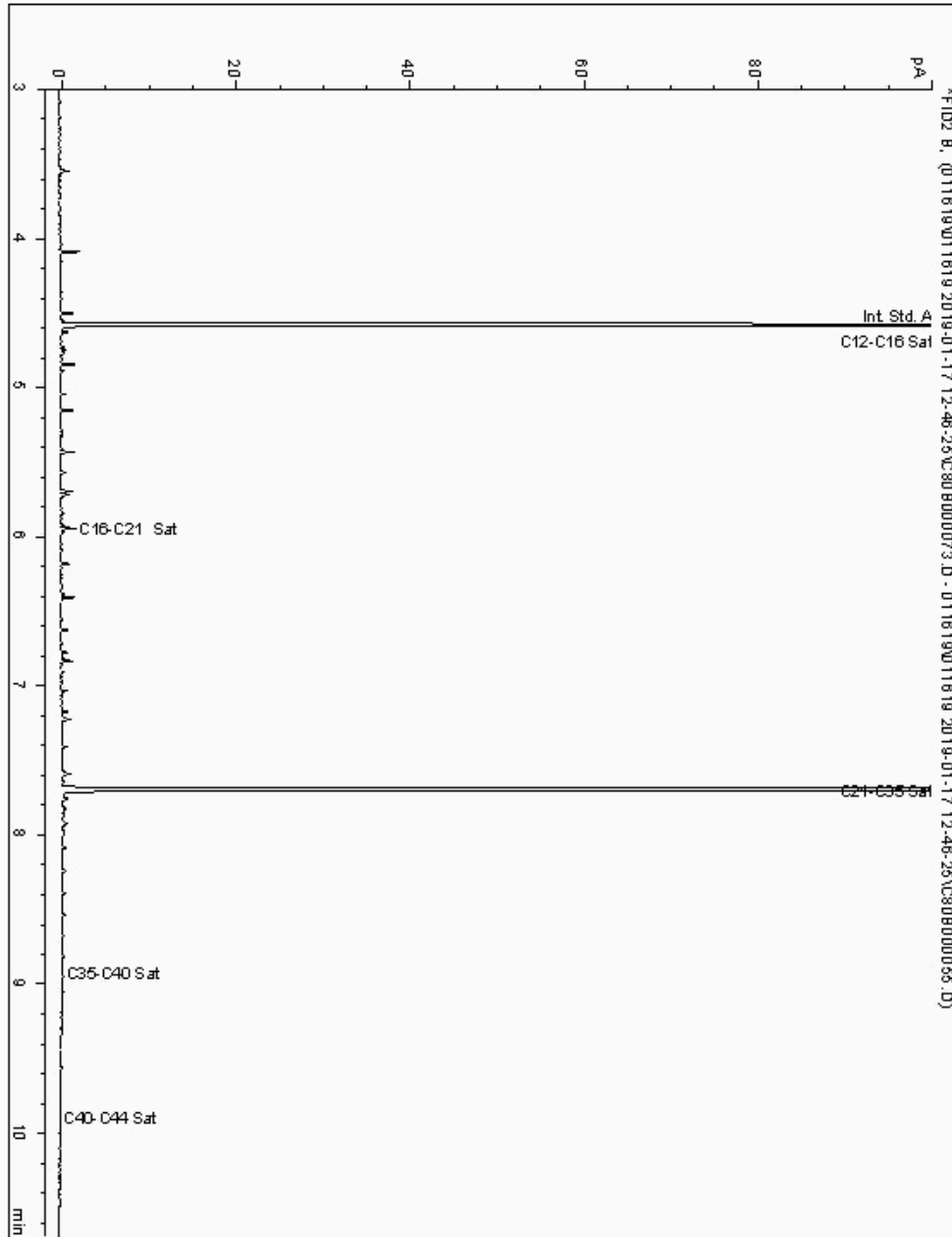
Analysis: EPH CWG (Aliphatic) GC (S)
19110660

Sample No :
Sample ID : BH223

19,110,660 Depth : 15.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946488-
Date Acquired : 17/01/19 18:53:12
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

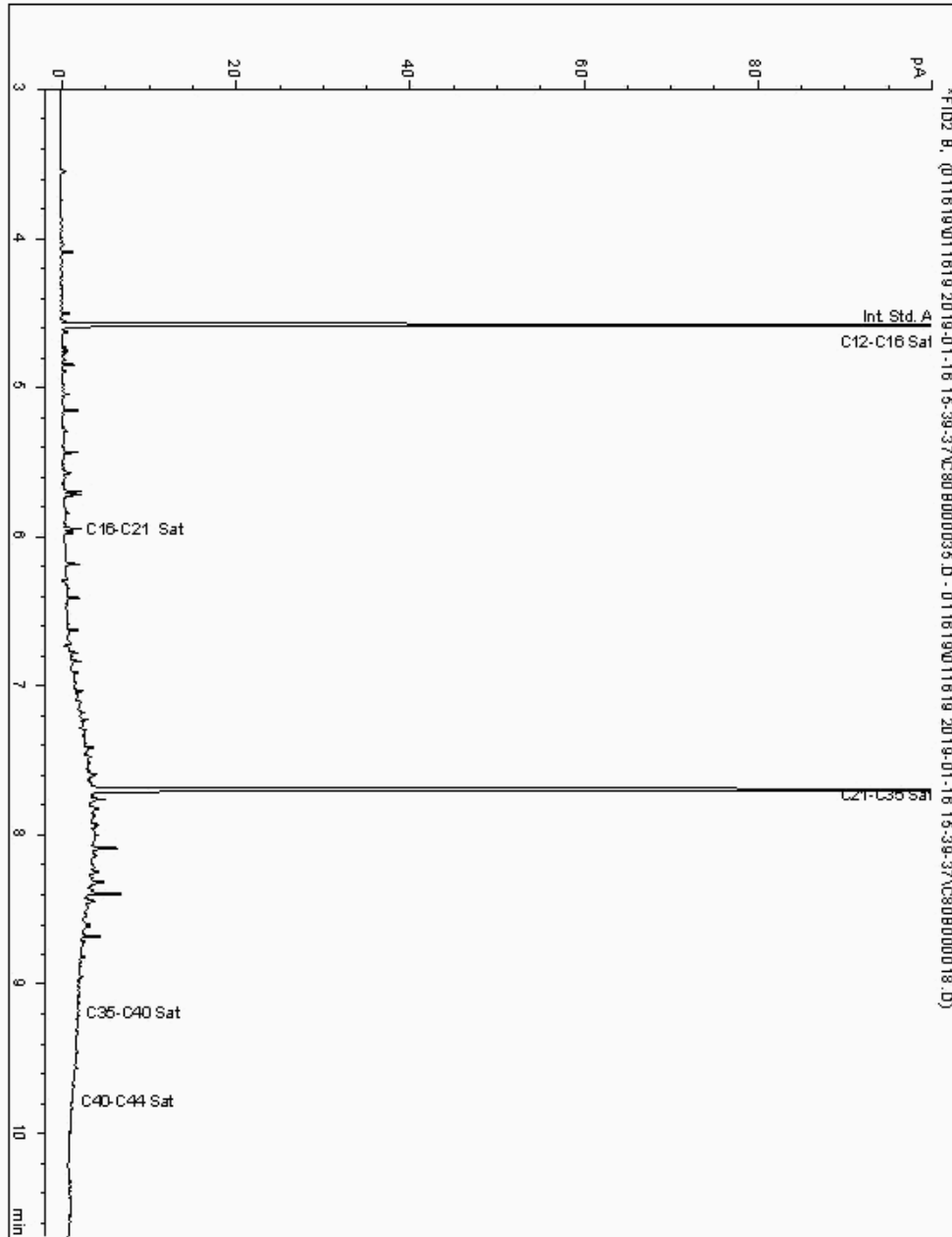
Analysis: EPH CWG (Aliphatic) GC (S)
19110961

Sample No :
Sample ID : BH222

19,110,961 Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947366-
Date Acquired : 17/01/19 02:46:11
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

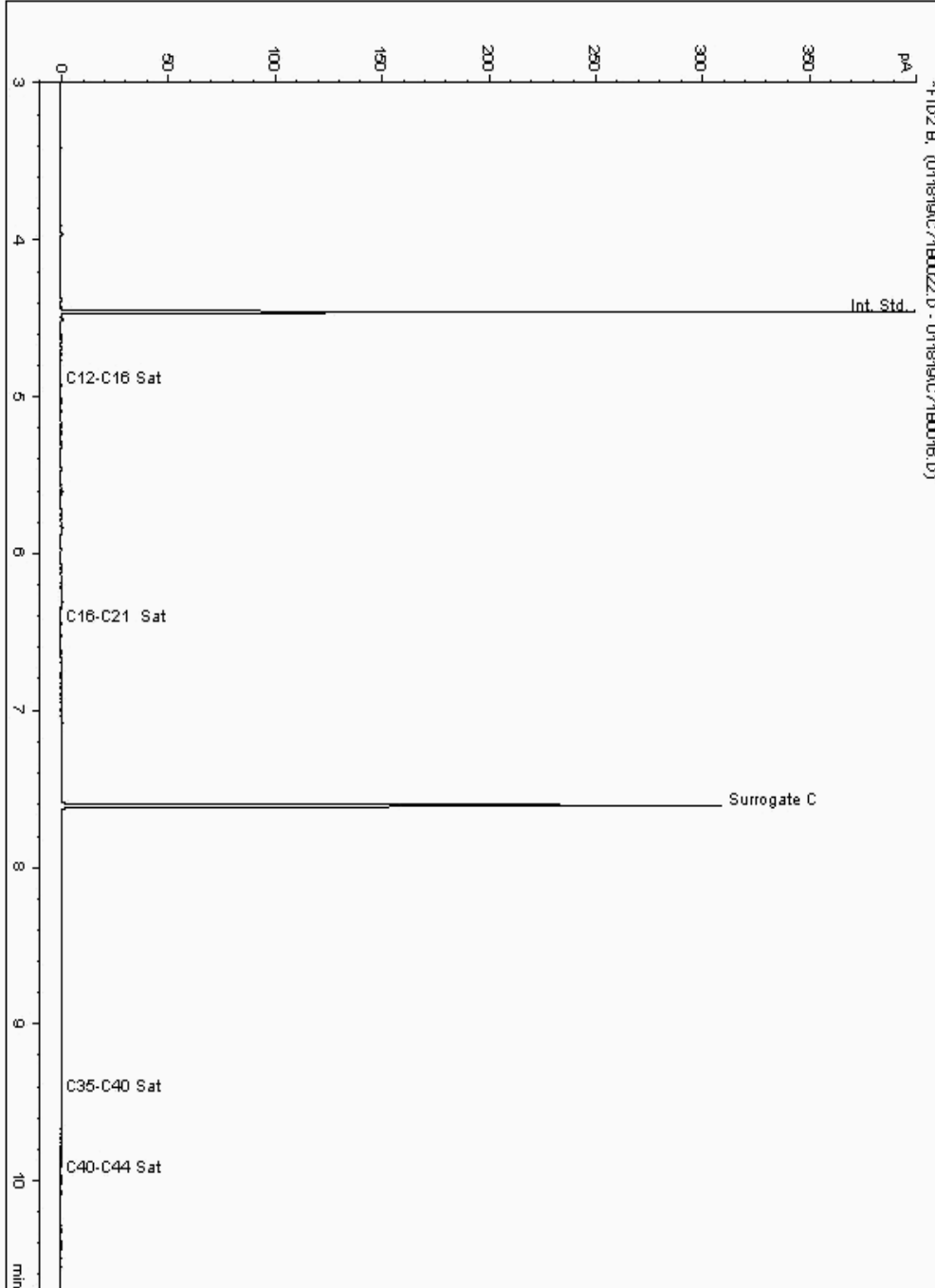
Analysis: EPH CWG (Aliphatic) GC (S)
19111010

Sample No :
Sample ID : BH223

19,111,010Depth :7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946619-
Date Acquired : 18/01/2019 14:43:03 PM
Units : ppb
Dilution: BH223[7.00 - 8.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

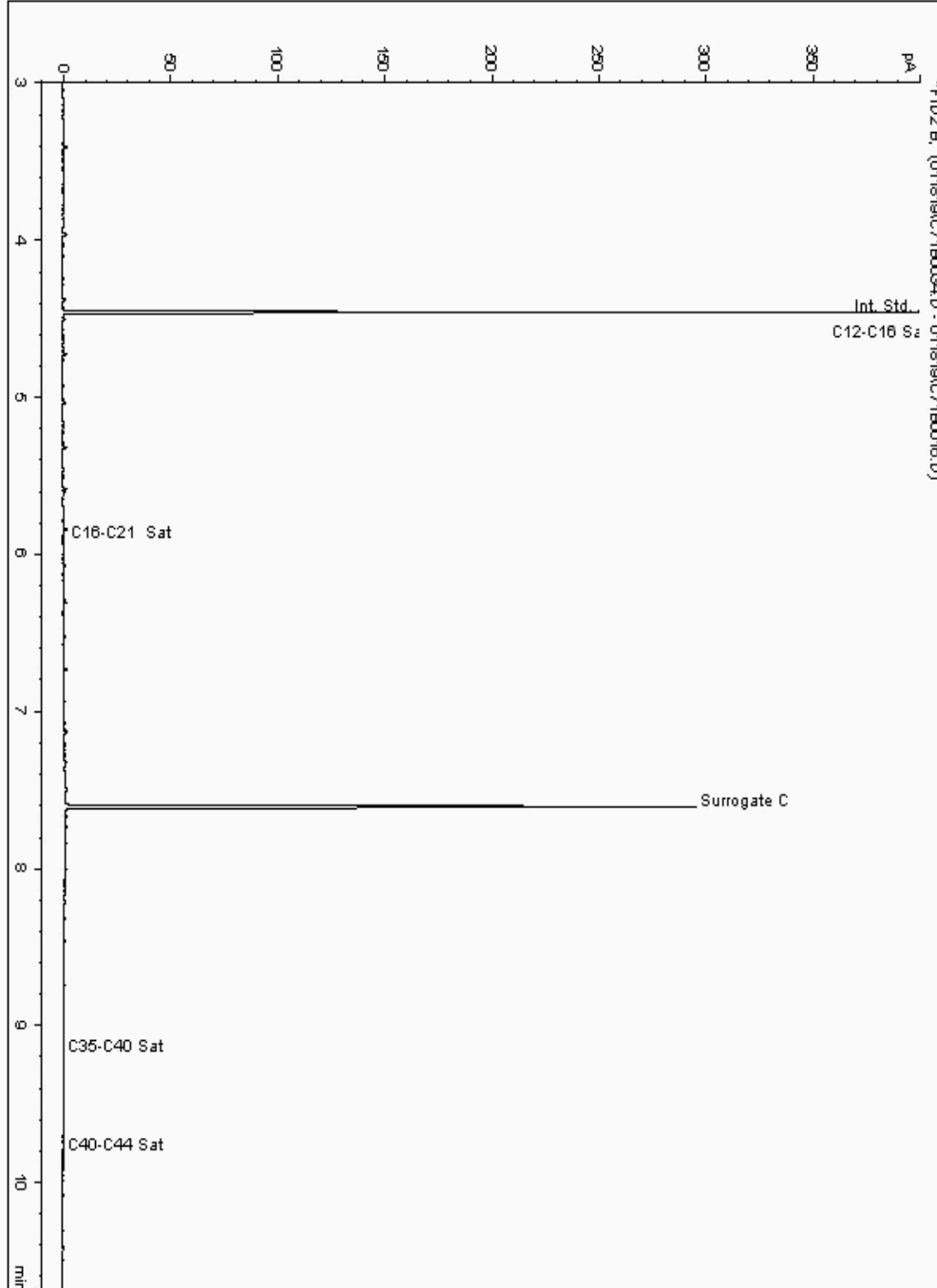
Analysis: EPH CWG (Aliphatic) GC (S)
19111220

Sample No :
Sample ID : BH219

19,111,220Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946993-
Date Acquired : 18/01/2019 19:16:38 PM
Units : ppb
Dilution: BH219[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

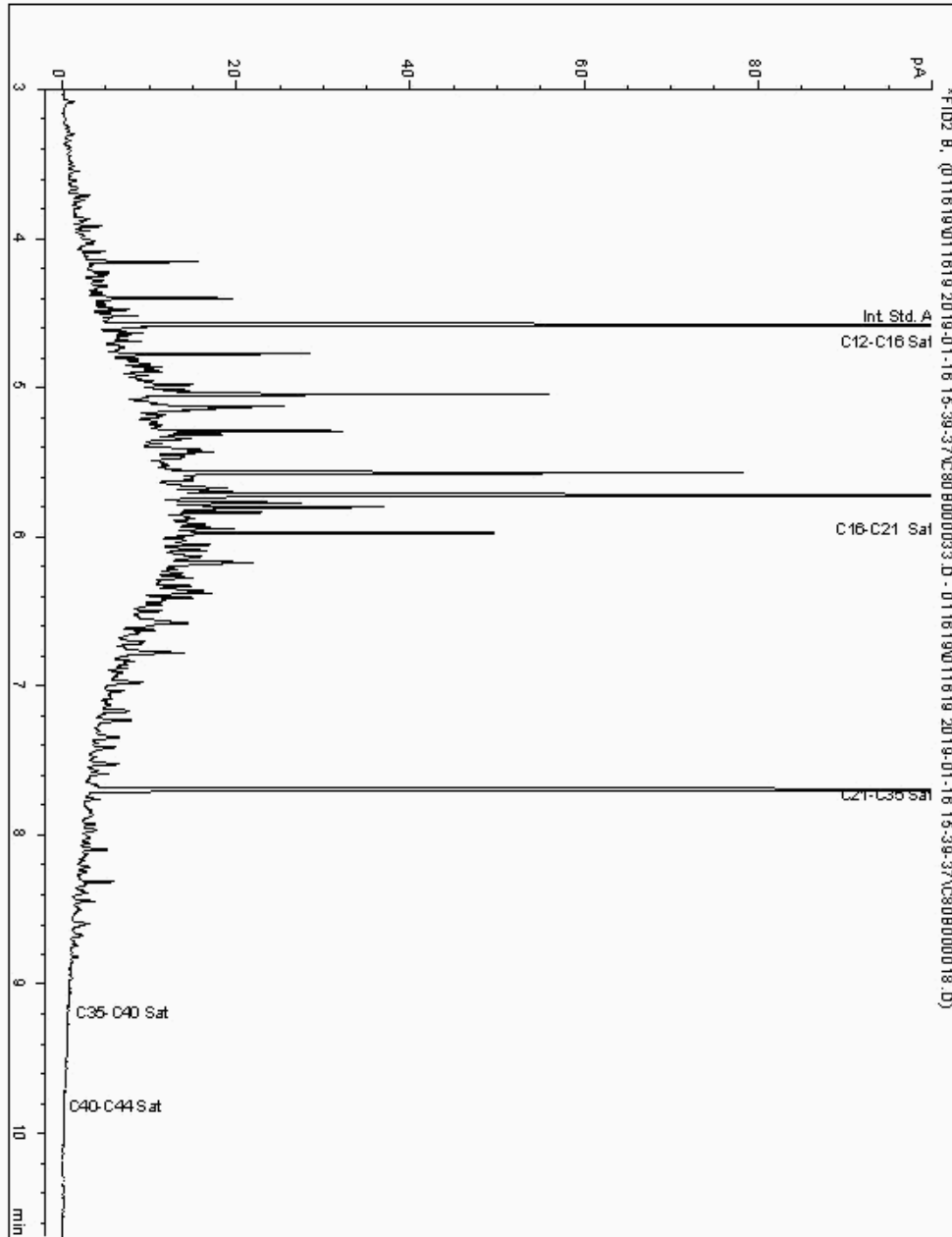
Analysis: EPH CWG (Aliphatic) GC (S)
19111228

Sample No :
Sample ID : BH224

19,111,228 Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947895-
Date Acquired : 17/01/19 02:13:58
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

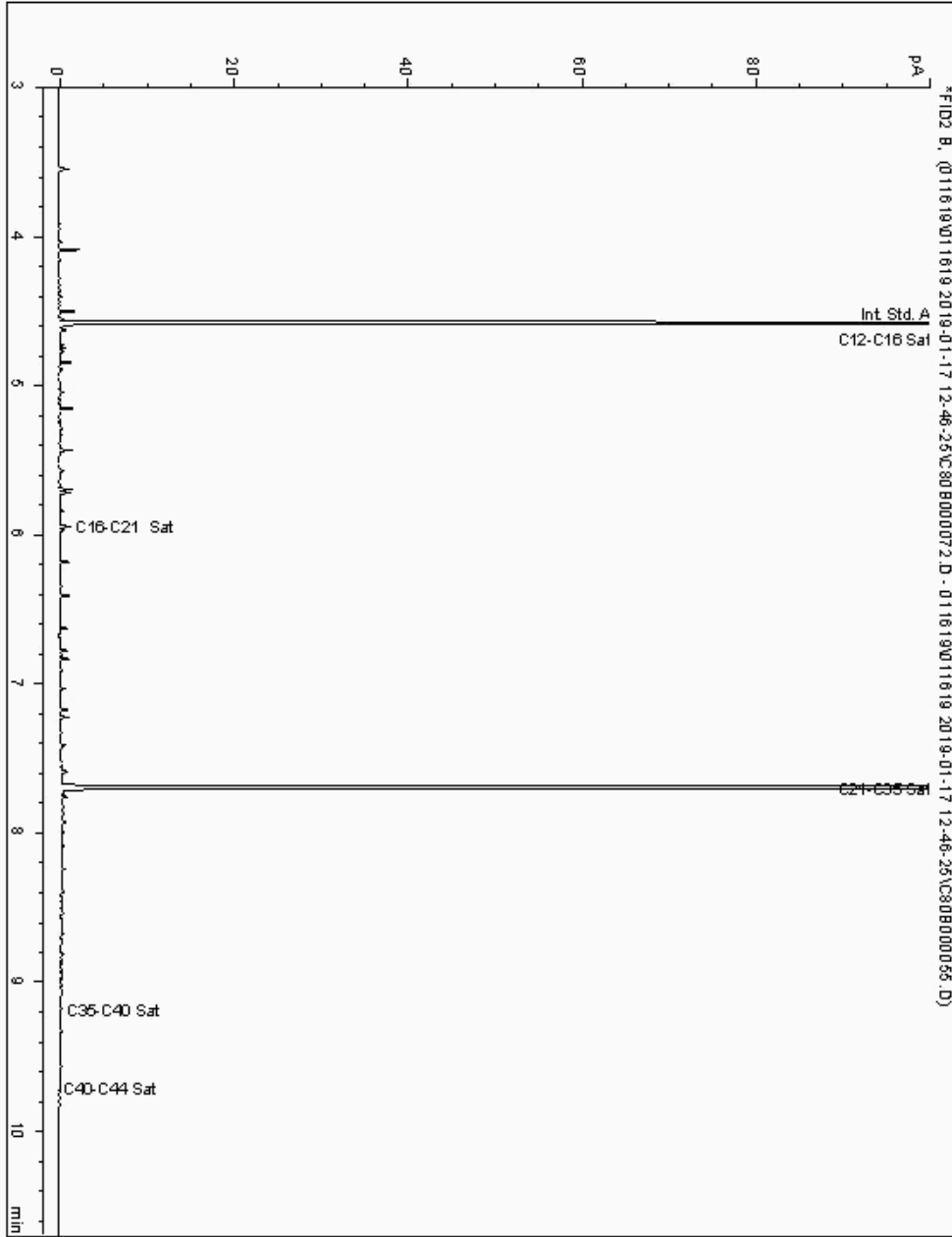
Analysis: EPH CWG (Aliphatic) GC (S)
19111241

Sample No :
Sample ID : BH222

19,111,241 Depth : 13.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947097-
Date Acquired : 17/01/19 18:33:03
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

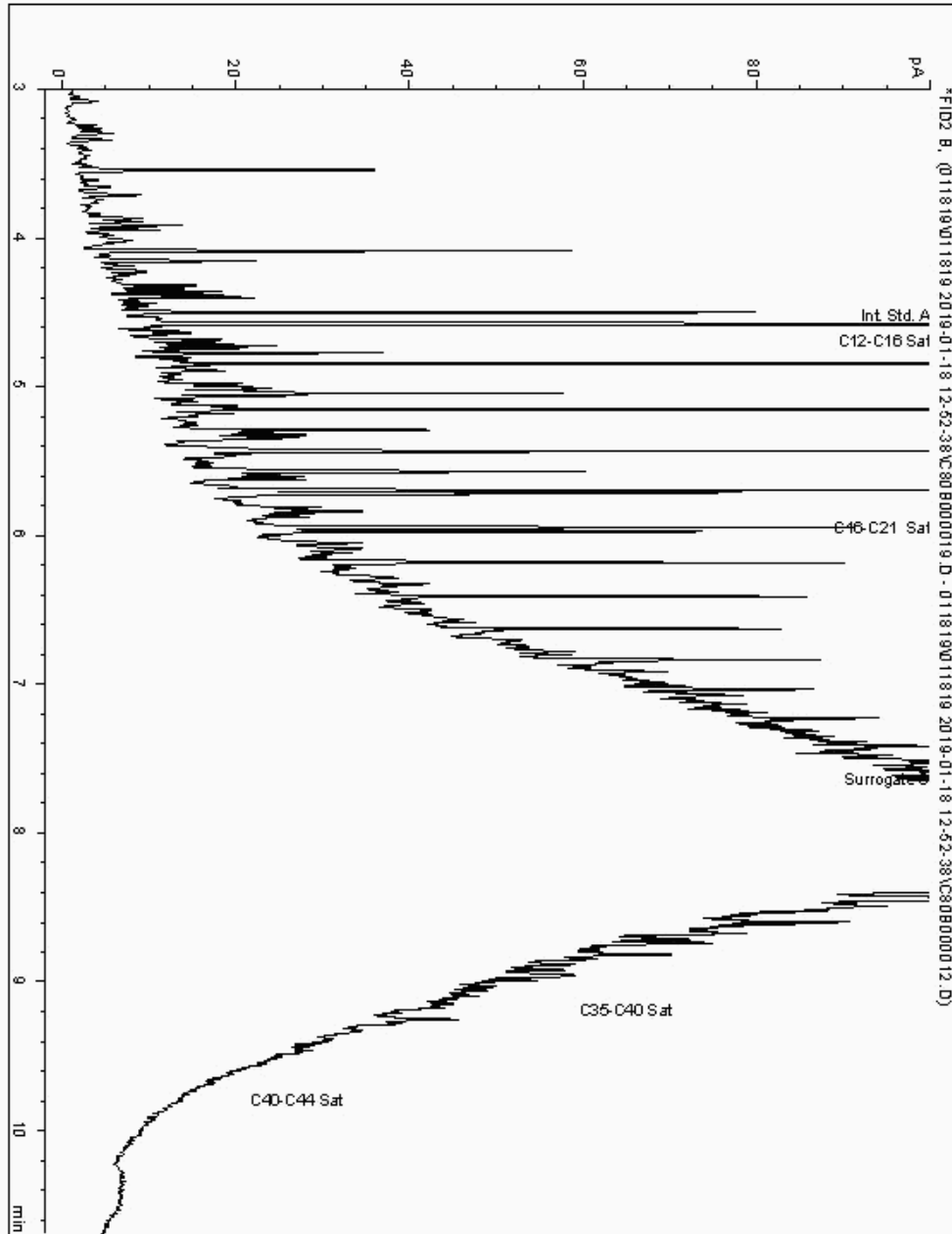
Analysis: EPH CWG (Aliphatic) GC (S)
19111388

Sample No :
Sample ID : BH219

19,111,388Depth :3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946925-
Date Acquired : 18/01/19 18:37:26
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

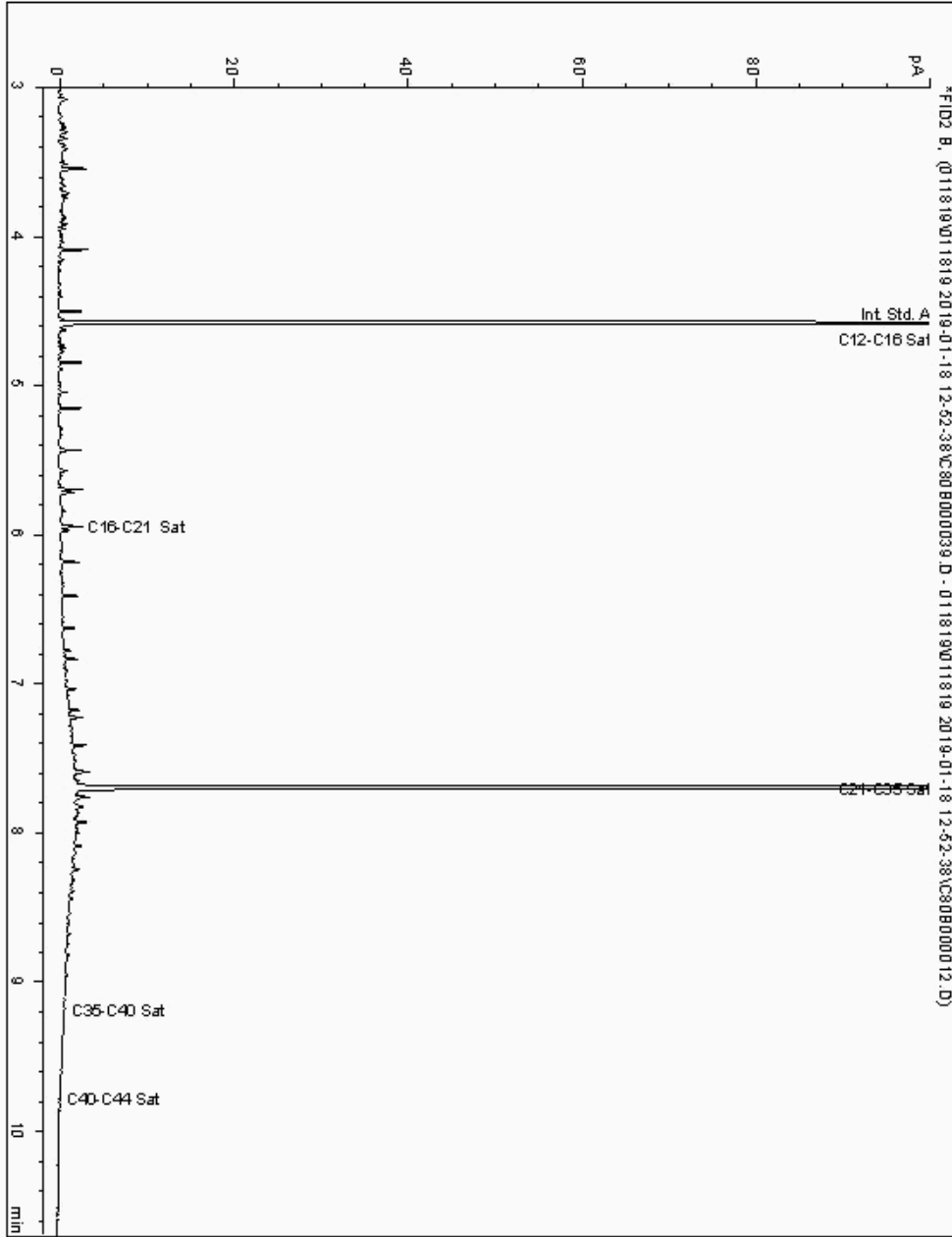
Analysis: EPH CWG (Aliphatic) GC (S)
19111435

Sample No :
Sample ID : BH219

19,111,435 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947016-
Date Acquired : 18/01/19 23:58:40
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

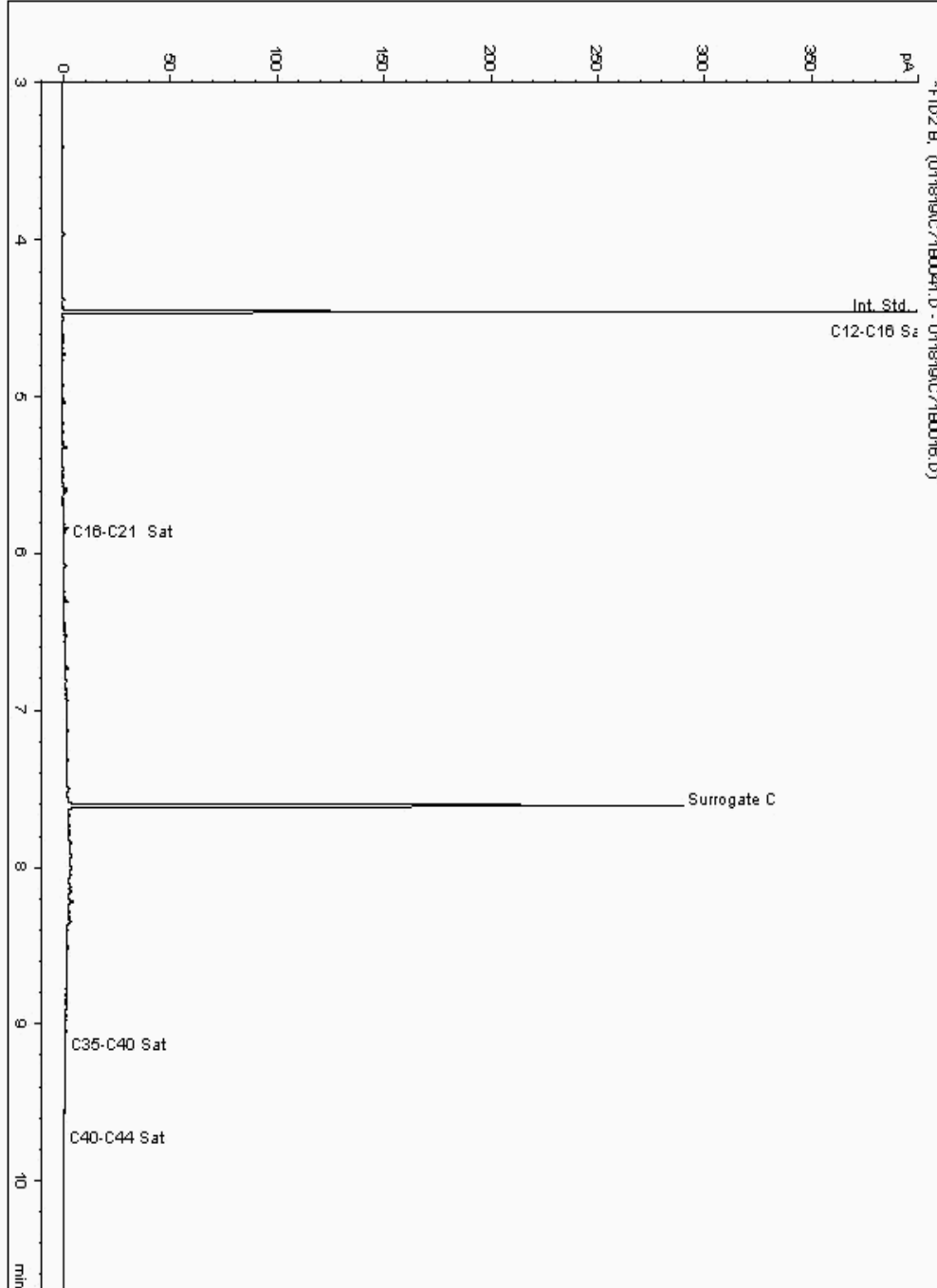
Analysis: EPH CWG (Aliphatic) GC (S)
19111454

Sample No :
Sample ID : BH219

19,111,454Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946948-
Date Acquired : 18/01/2019 21:13:26 PM
Units : ppb
Dilution: BH219[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

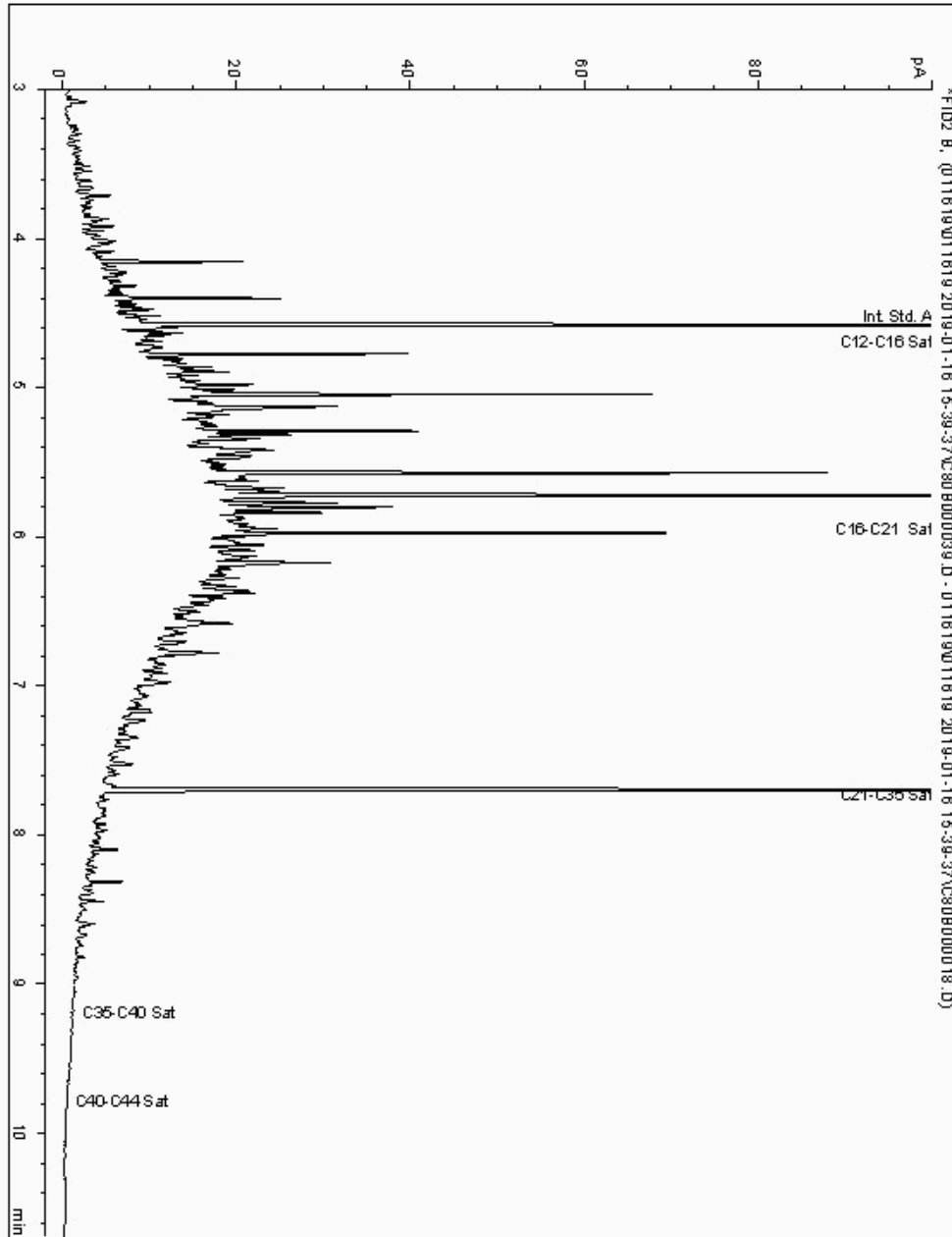
Analysis: EPH CWG (Aliphatic) GC (S)
19111484

Sample No :
Sample ID : BH224

19,111,484Depth :2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947949-
Date Acquired : 17/01/19 03:50:23
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

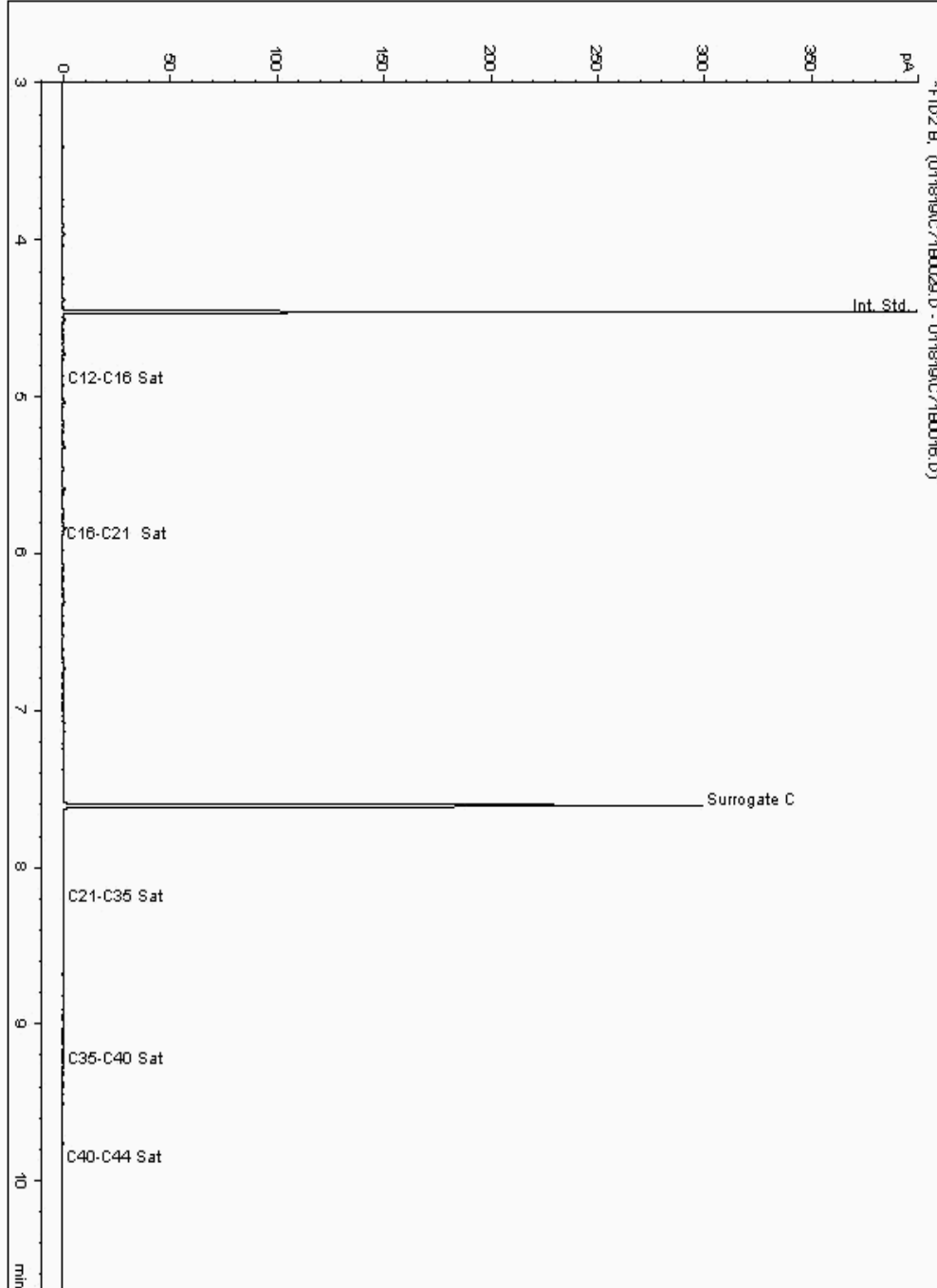
Analysis: EPH CWG (Aliphatic) GC (S)
19111535

Sample No :
Sample ID : BH223

19,111,535 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946547-
Date Acquired : 18/01/2019 17:35:31 PM
Units : ppb
Dilution: BH223[12.00 - 13.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

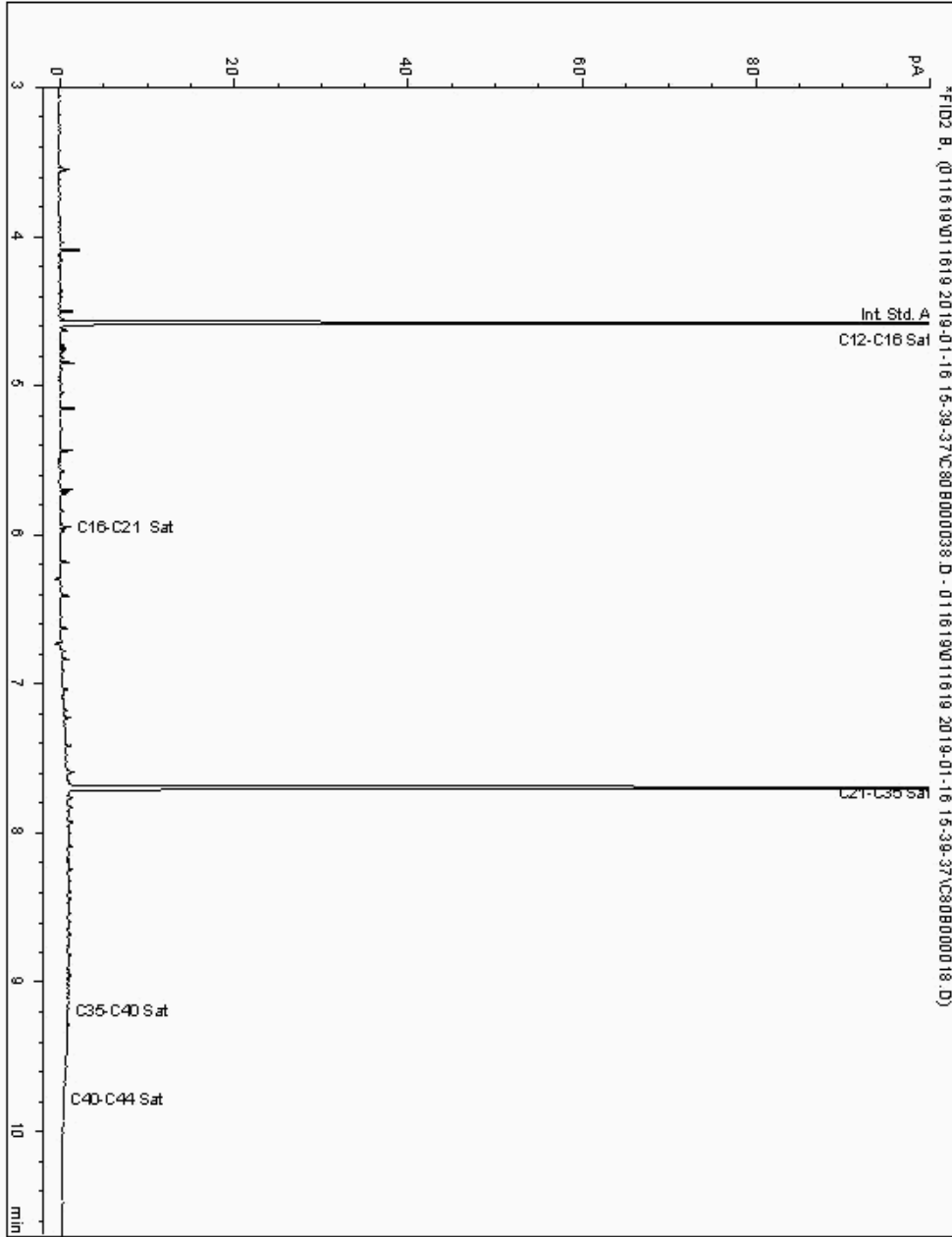
Analysis: EPH CWG (Aliphatic) GC (S)
19111579

Sample No :
Sample ID : BH235

19,111,579 Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947435-
Date Acquired : 17/01/19 03:30:07
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

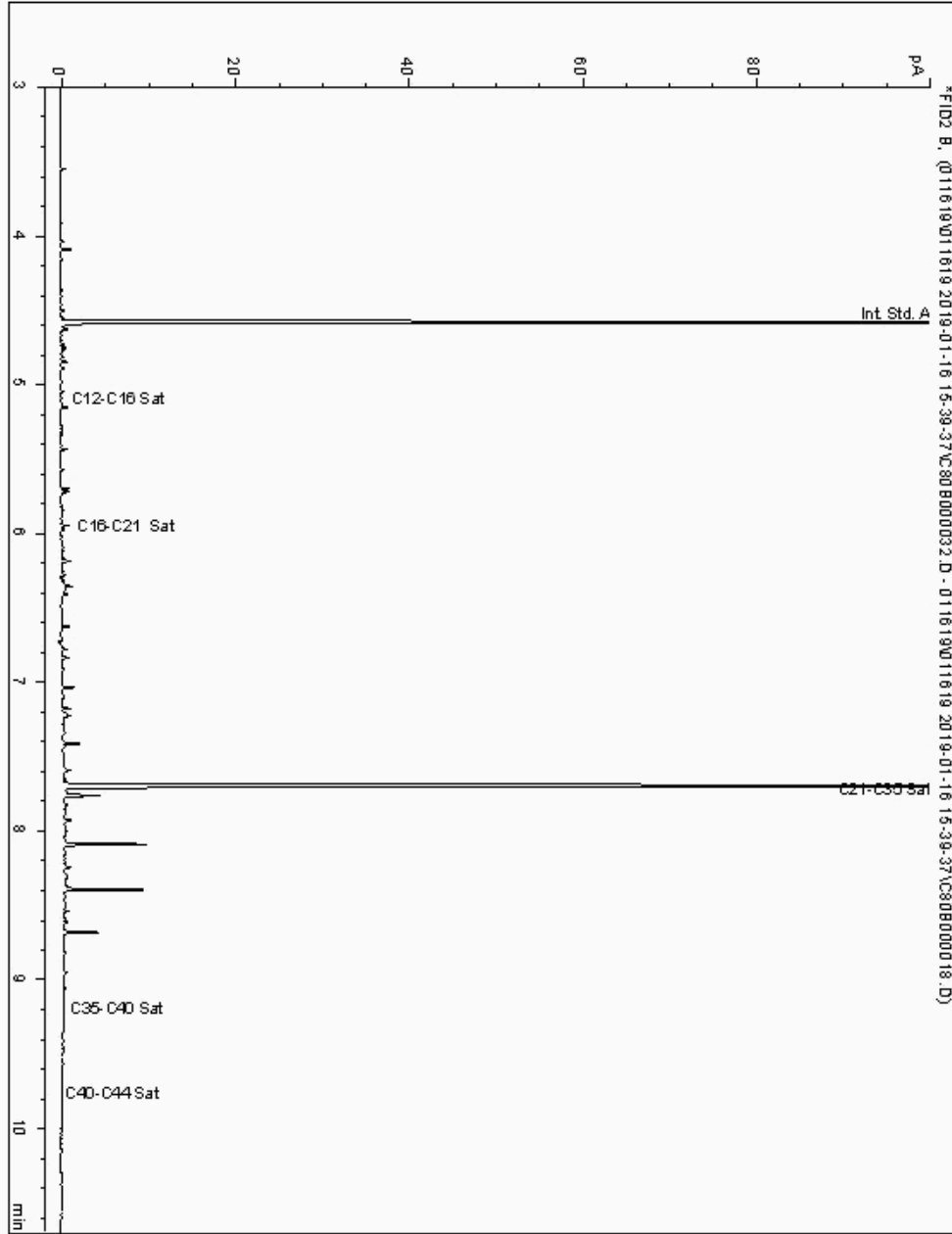
Analysis: EPH CWG (Aliphatic) GC (S)
19111619

Sample No :
Sample ID : BH218

19,111,619 Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948115-
Date Acquired : 17/01/19 01:53:49
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

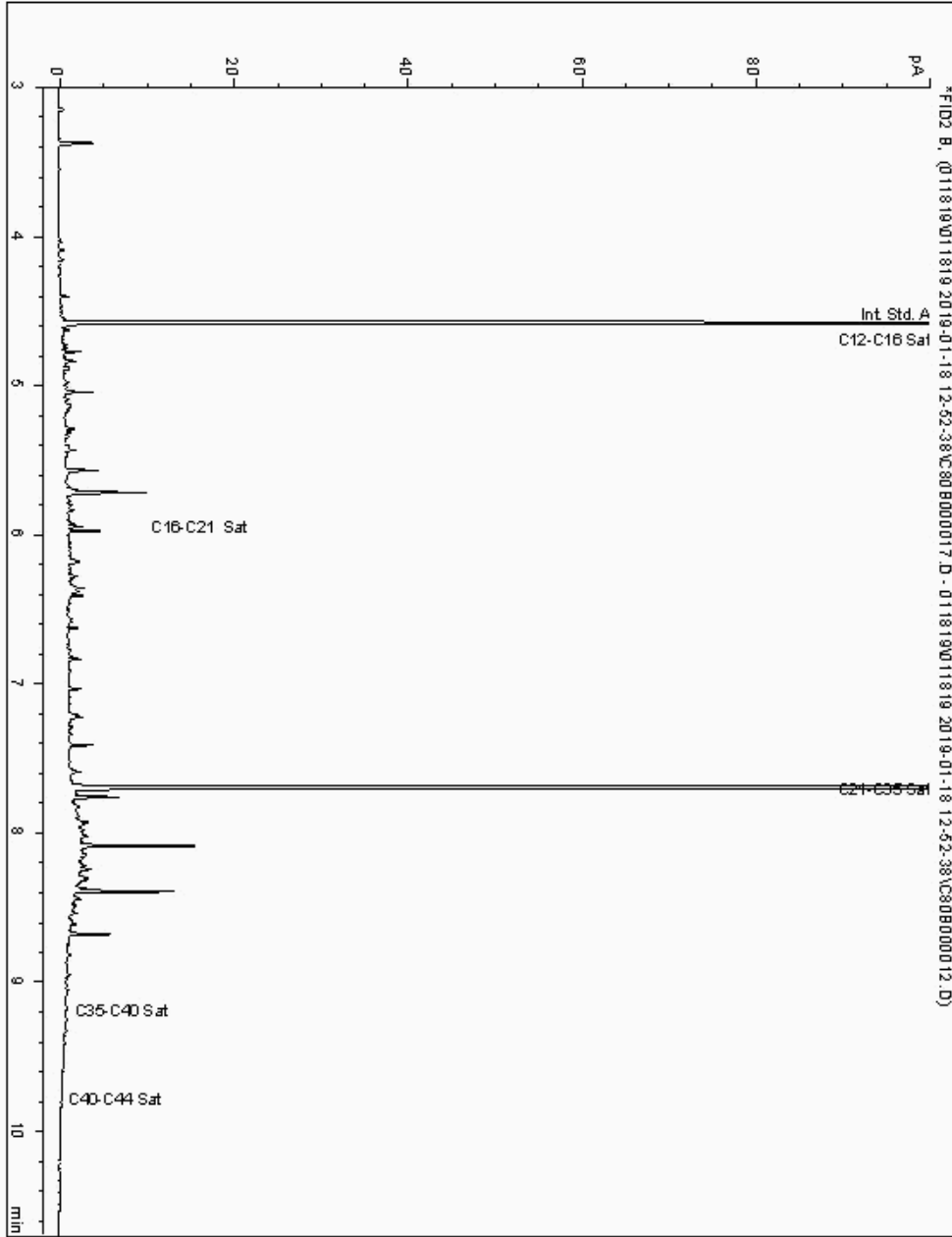
Analysis: EPH CWG (Aliphatic) GC (S)
19112027

Sample No :
Sample ID : BH223

19,112,027Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946686-
Date Acquired : 18/01/19 18:05:21
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

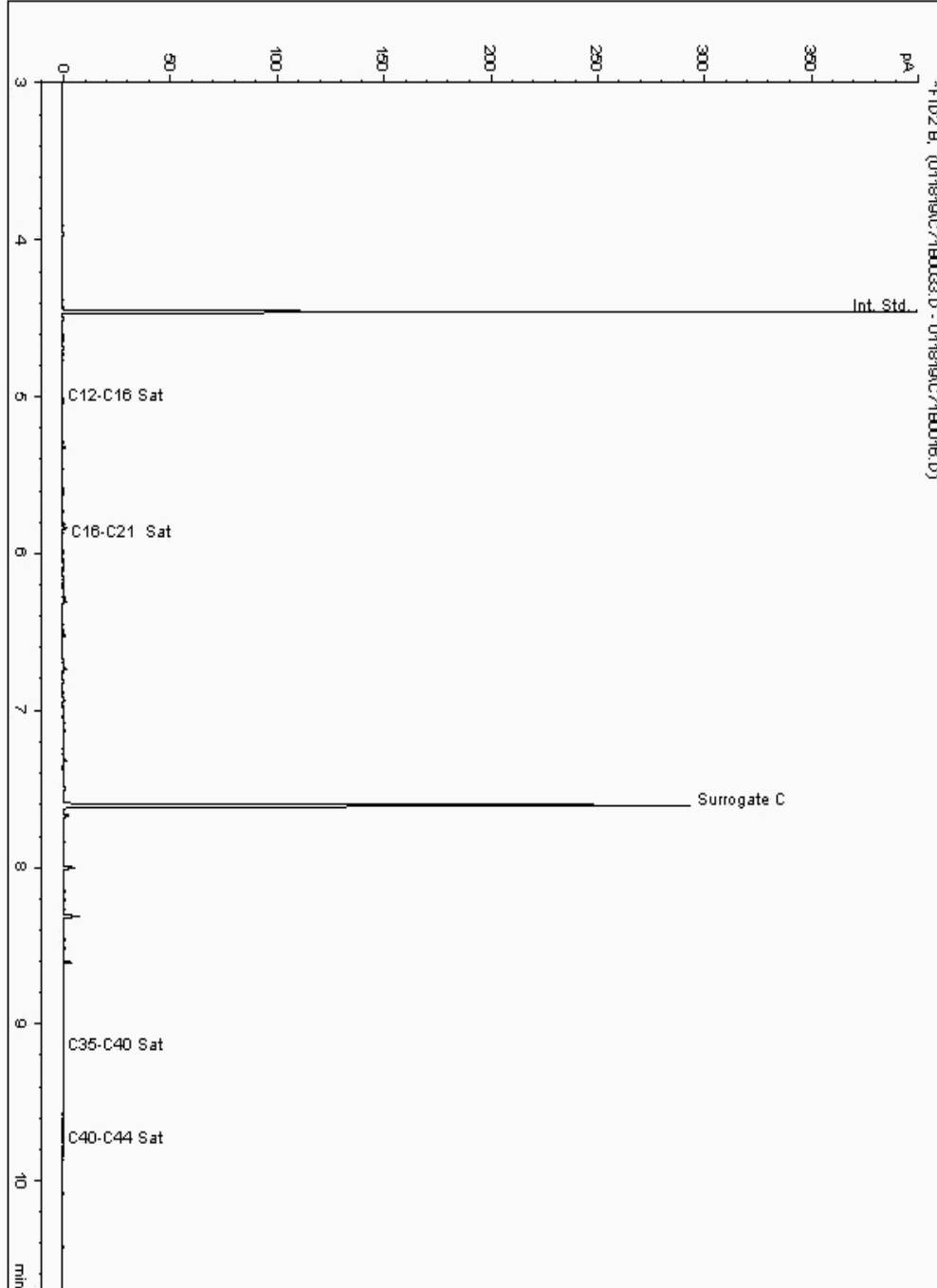
Analysis: EPH CWG (Aliphatic) GC (S)
19112081

Sample No :
Sample ID : BH222

19,112,081 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947265-
Date Acquired : 18/01/2019 18:56:29 PM
Units : ppb
Dilution: BH222[2.00 - 3.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

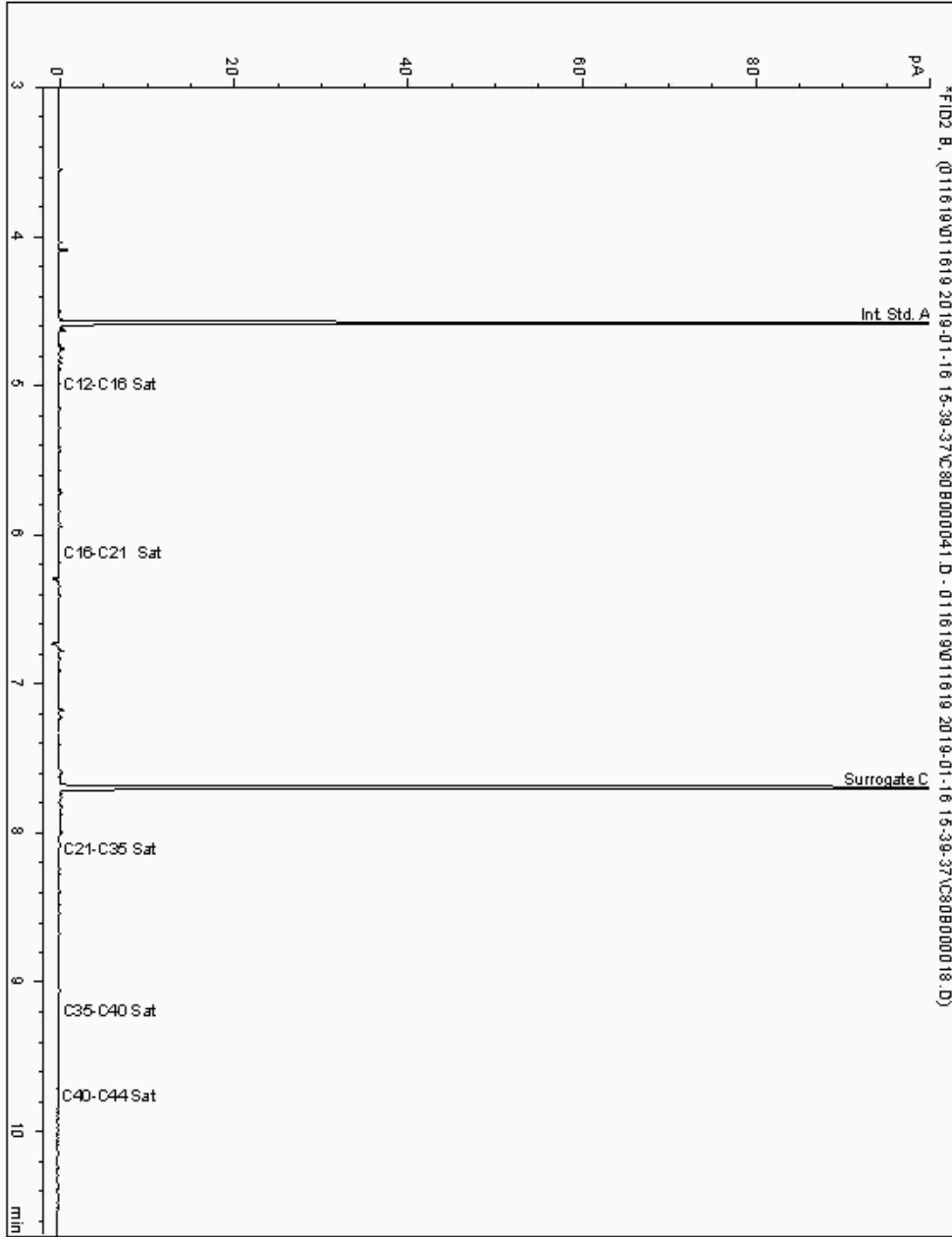
Analysis: EPH CWG (Aliphatic) GC (S)
19112185

Sample No :
Sample ID : BH218

19,112,185 Depth : 9.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17948207-
Date Acquired : 17/01/19 04:22:41
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

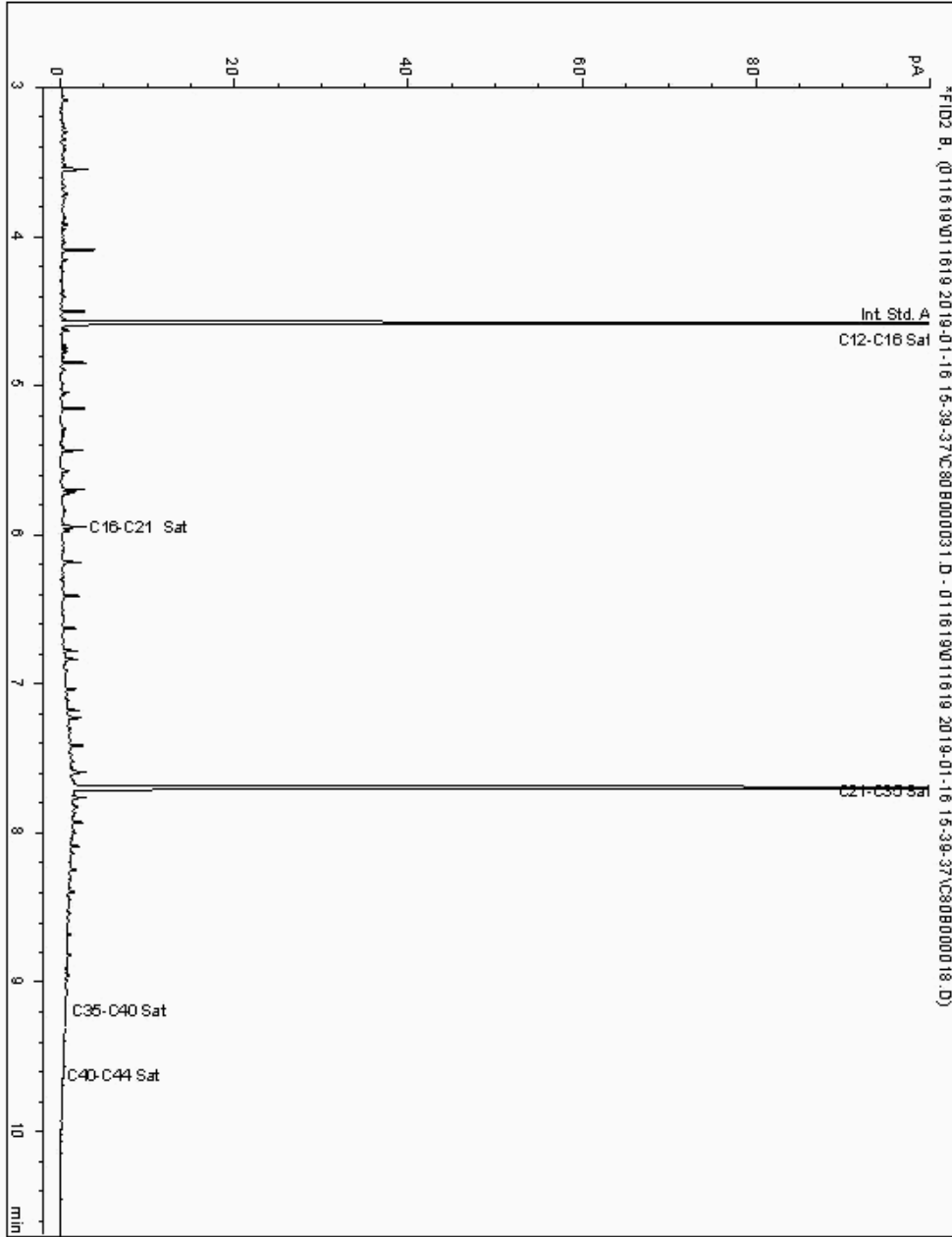
Analysis: EPH CWG (Aliphatic) GC (S)
19112298

Sample No :
Sample ID : BH224

19,112,298 Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947716-
Date Acquired : 17/01/19 01:33:33
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

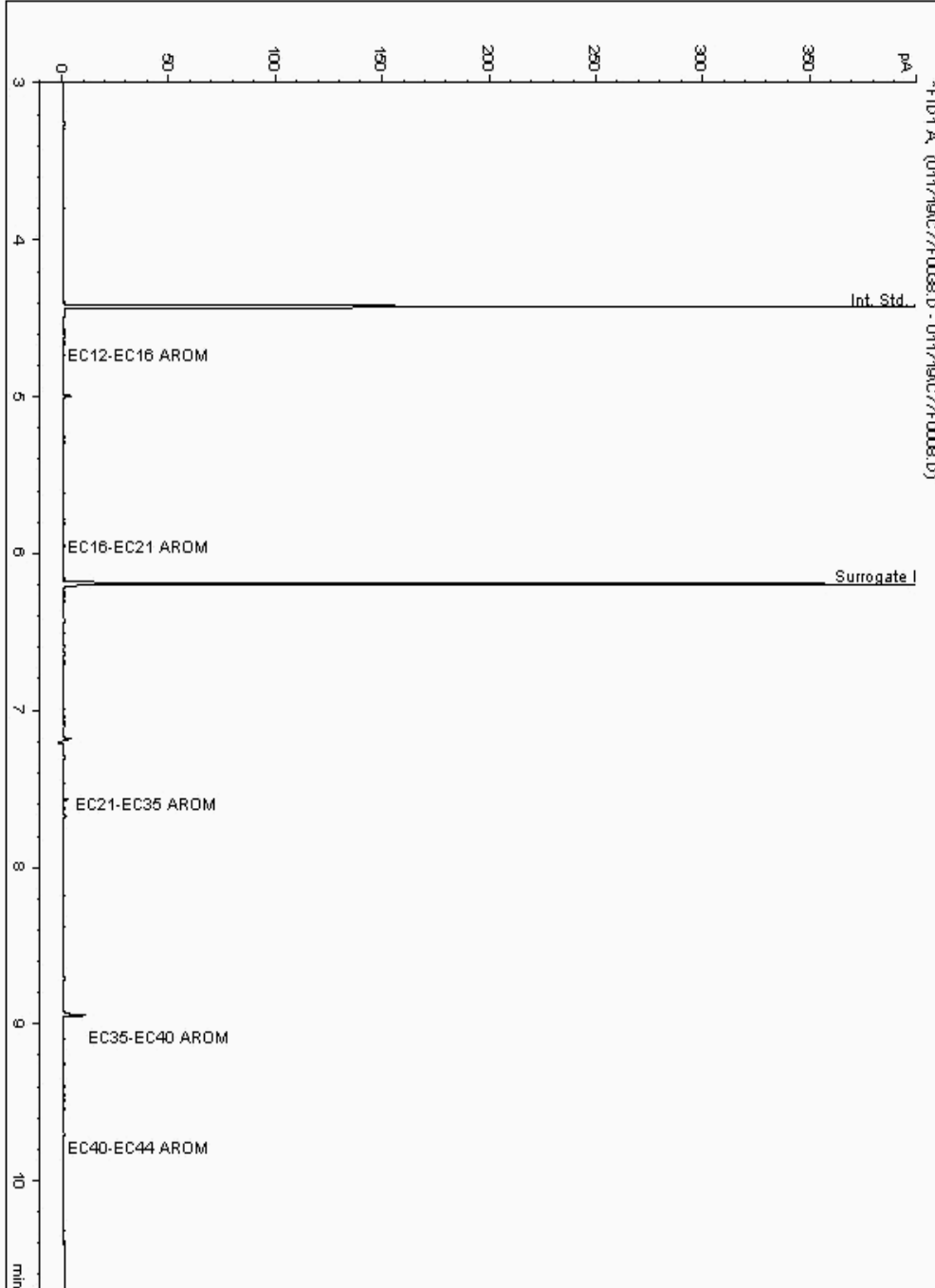
Analysis: EPH CWG (Aromatic) GC (S)
19108731

Sample No :
Sample ID : BH223

19,108,731 Depth : 10.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946593-
Date Acquired : 18/01/2019 17:50:55 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

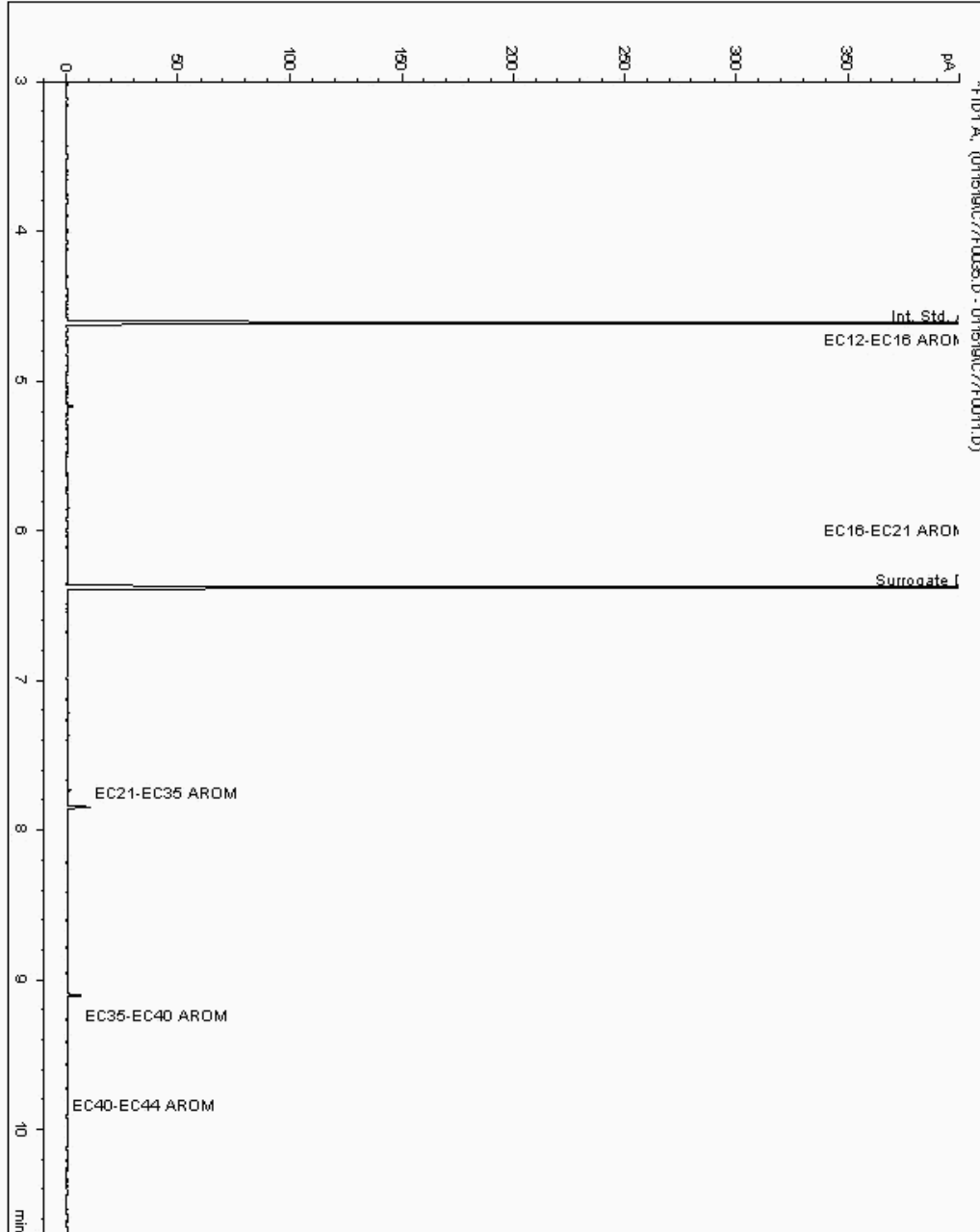
Analysis: EPH CWG (Aromatic) GC (S)
19108798

Sample No :
Sample ID : BH235

19,108,798Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947413-
Date Acquired : 1/16/2019 5:07:01 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

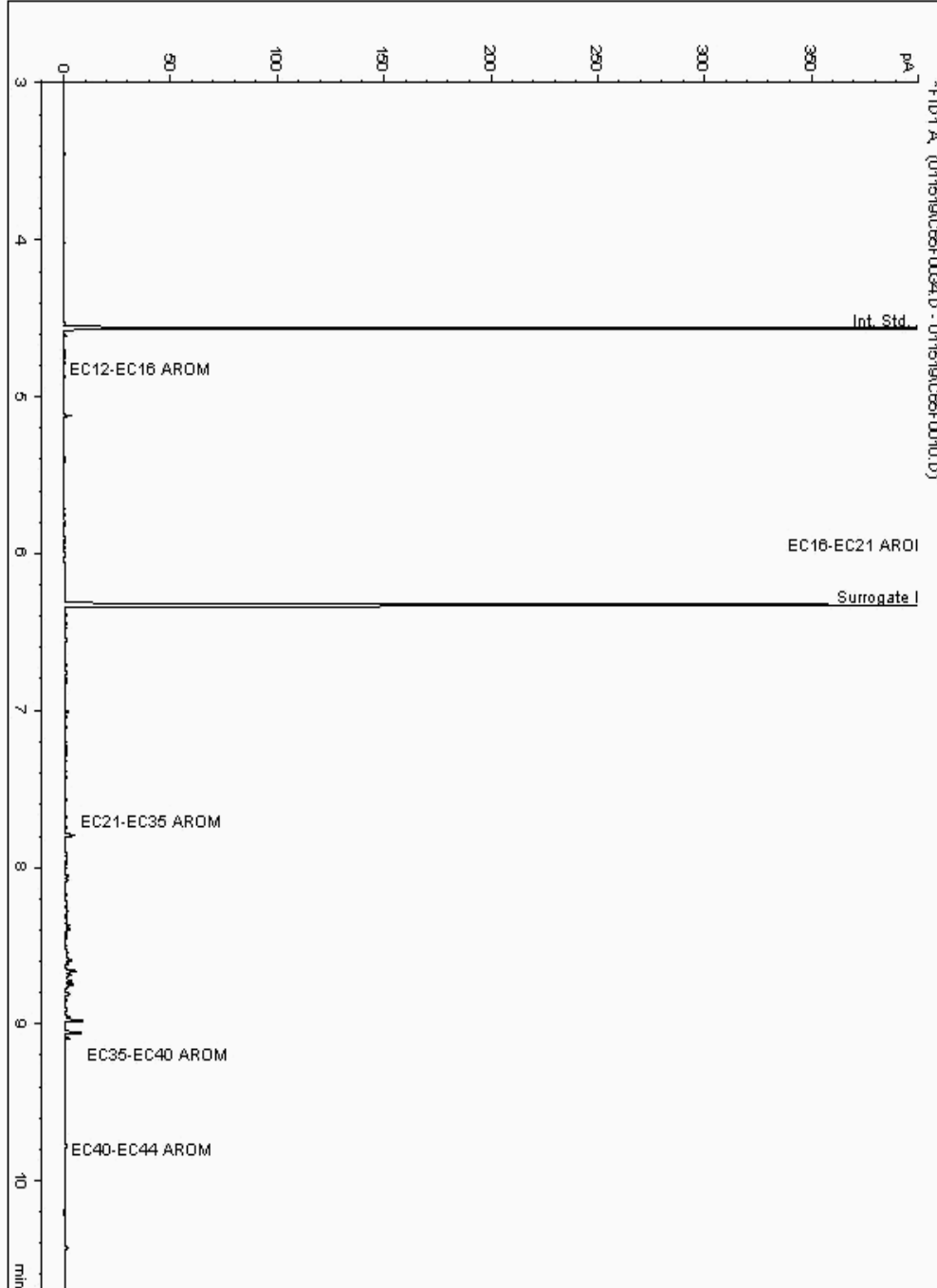
Analysis: EPH CWG (Aromatic) GC (S)
19108828

Sample No :
Sample ID : BH235

19,108,828Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947588-
Date Acquired : 15/01/2019 19:52:24 PM
Units : ppb
Dilution: BH235[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

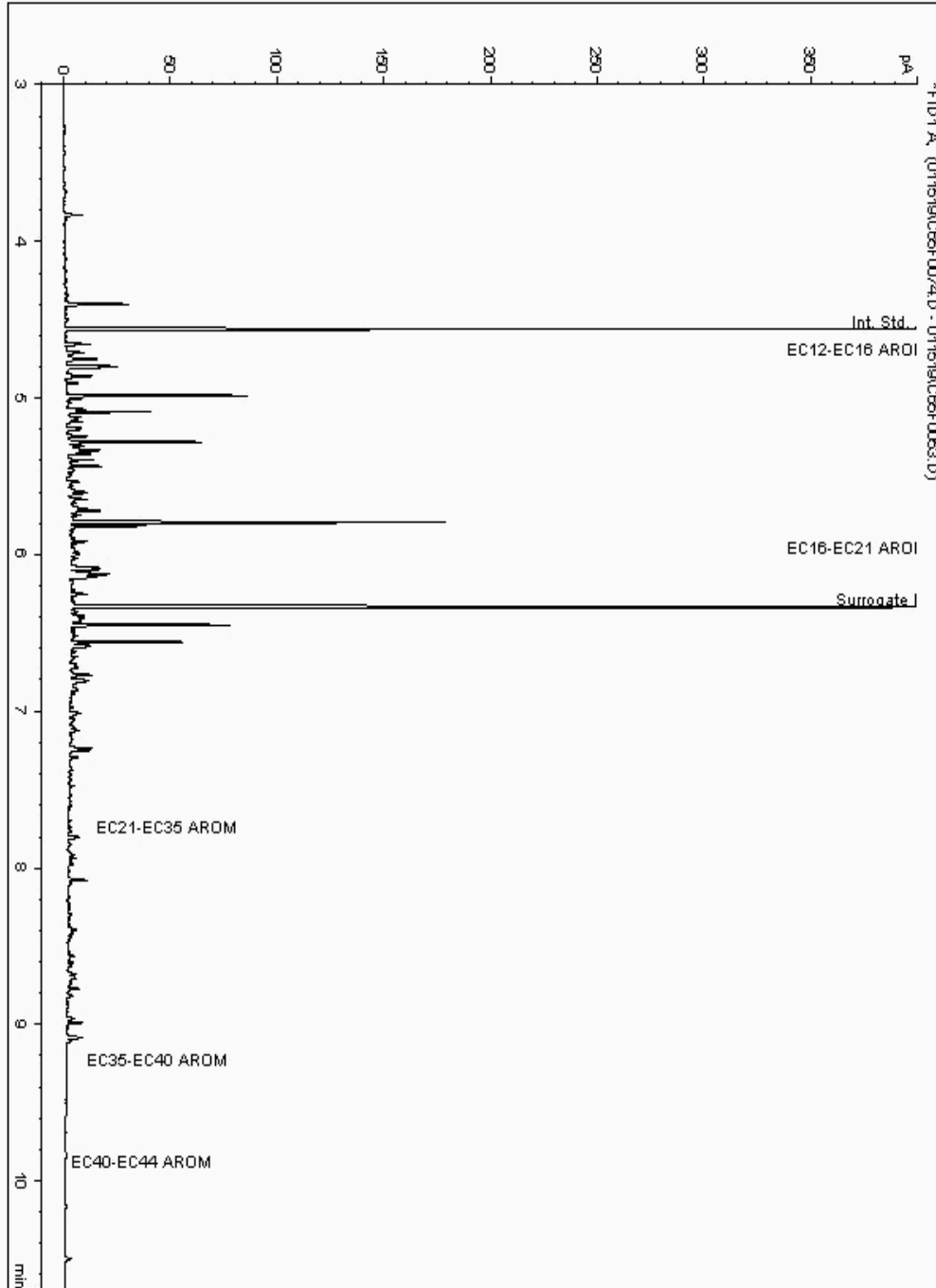
Analysis: EPH CWG (Aromatic) GC (S)
19108885

Sample No :
Sample ID : BH222

19,108,885Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947243-
Date Acquired : 17/01/2019 17:19:23 PM
Units : ppb
Dilution: BH222[4.00 - 5.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

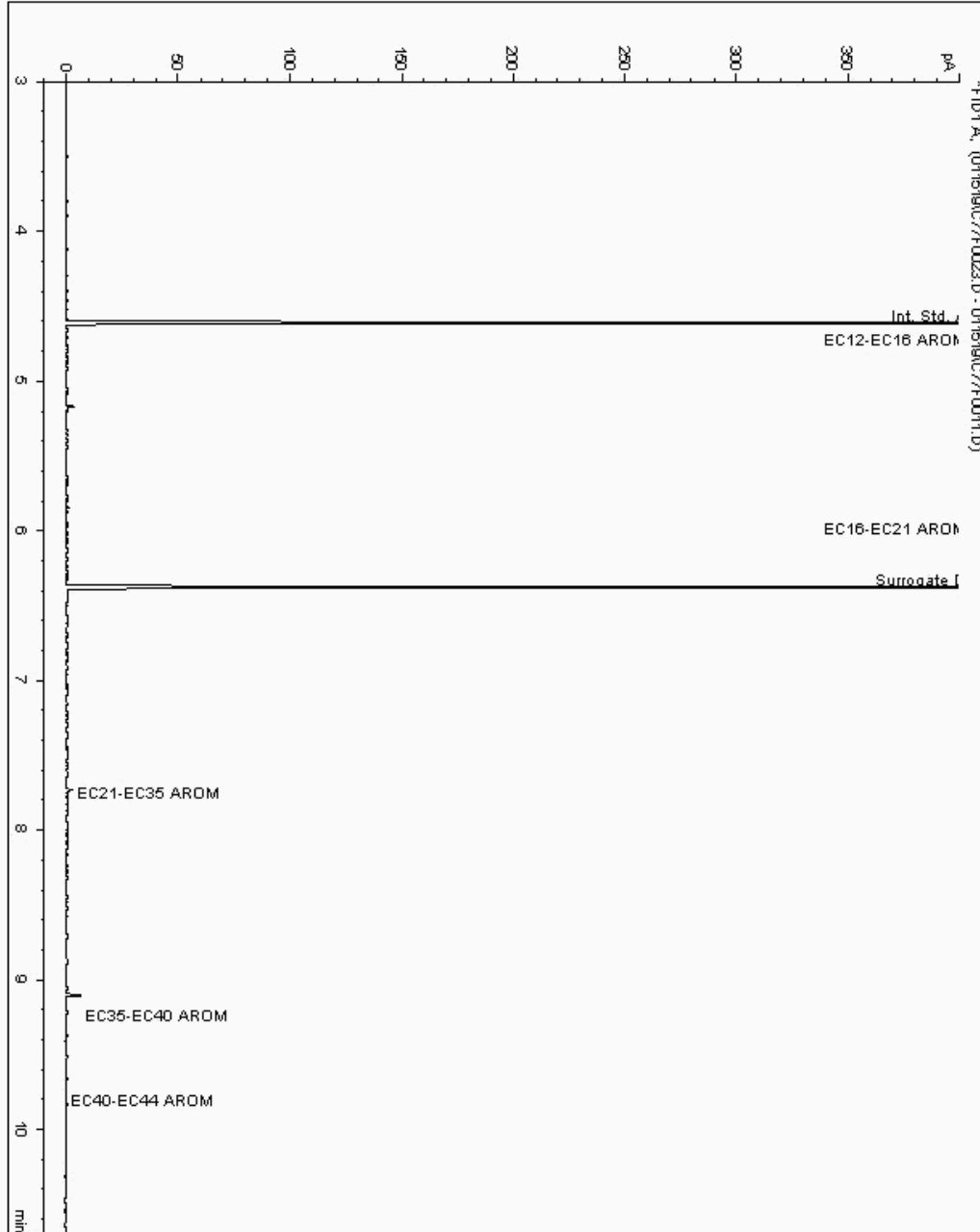
Analysis: EPH CWG (Aromatic) GC (S)
19108920

Sample No :
Sample ID : BH224

19,108,920Depth : 13.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947764-
Date Acquired : 1/16/2019 1:13:07 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

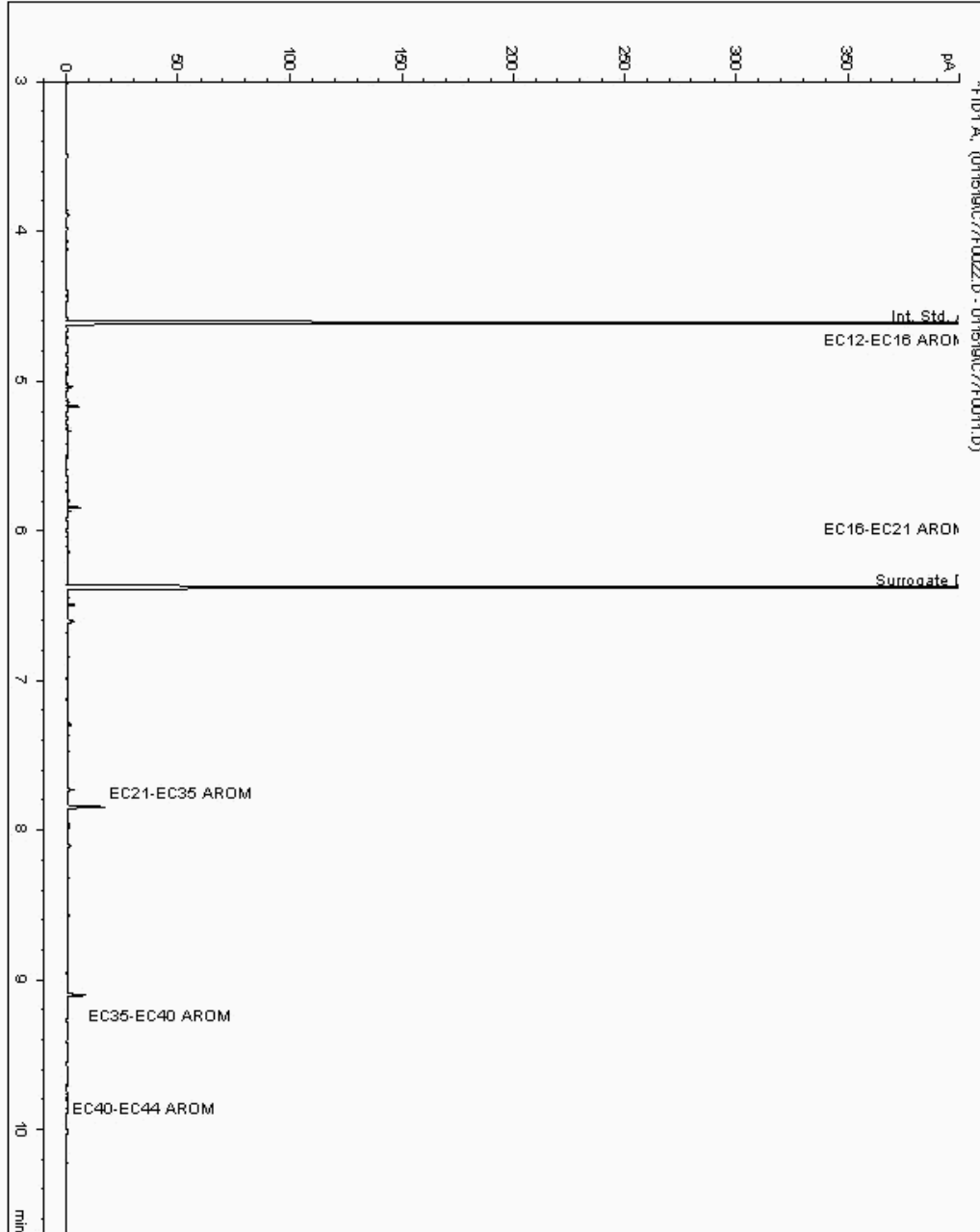
Analysis: EPH CWG (Aromatic) GC (S)
19108952

Sample No :
Sample ID : BH223

19,108,952Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946732-
Date Acquired : 1/16/2019 12:52:57 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

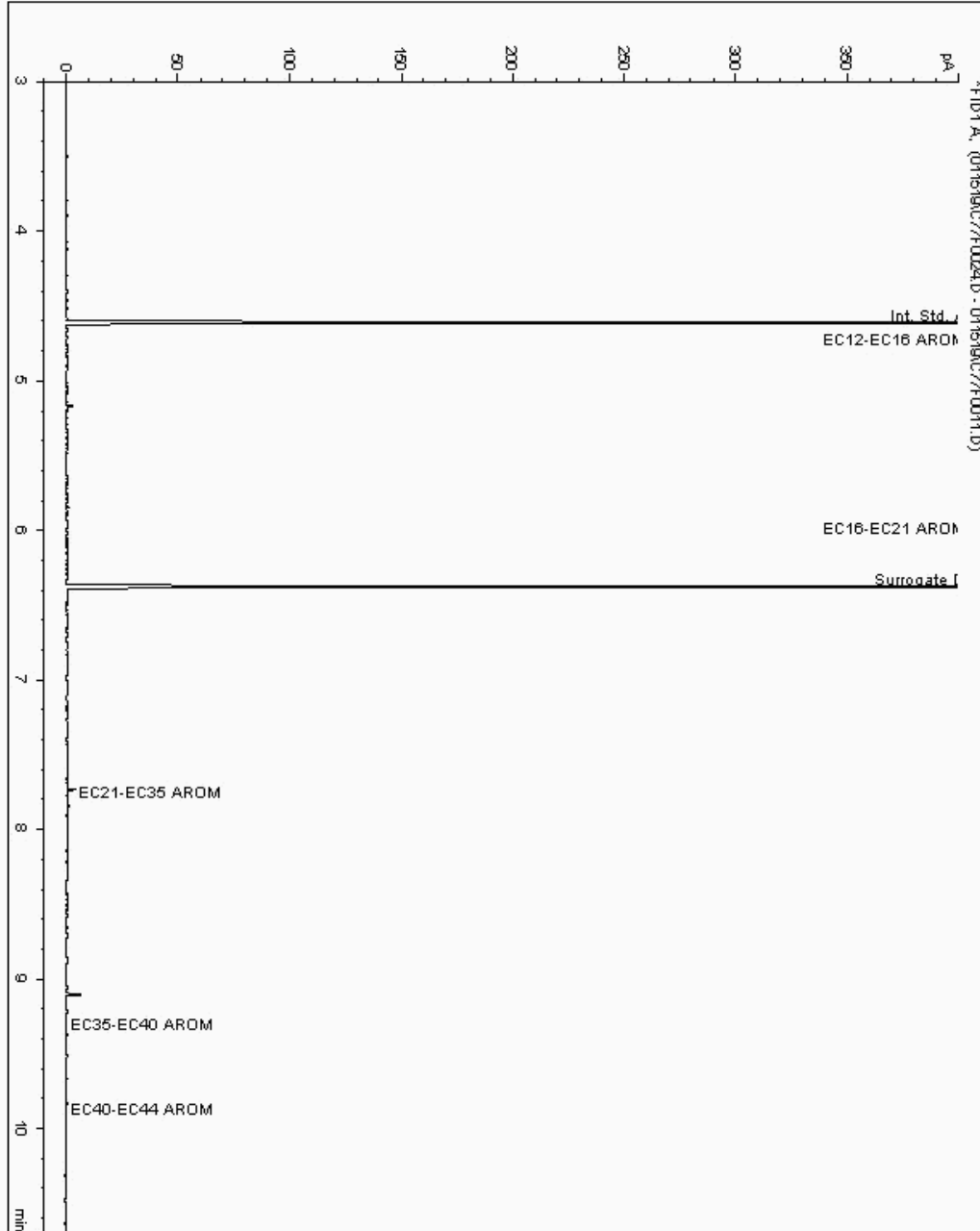
Analysis: EPH CWG (Aromatic) GC (S)
19109033

Sample No :
Sample ID : BH224

19,109,033 Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947740-
Date Acquired : 1/16/2019 1:33:18 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

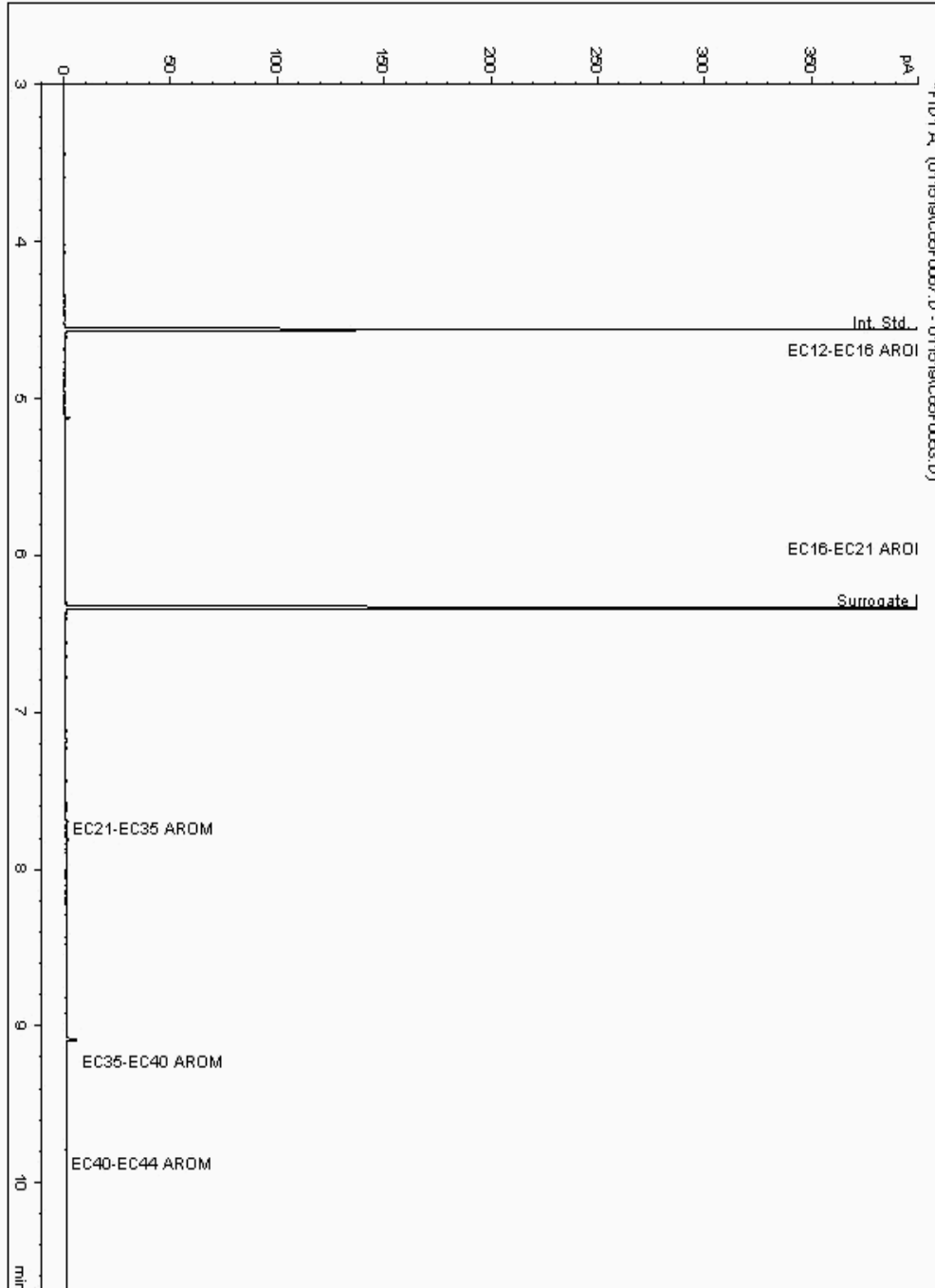
Analysis: EPH CWG (Aromatic) GC (S)
19109081

Sample No :
Sample ID : BH218

19,109,081 Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948231-
Date Acquired : 17/01/2019 15:13:14 PM
Units : ppb
Dilution: BH218[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

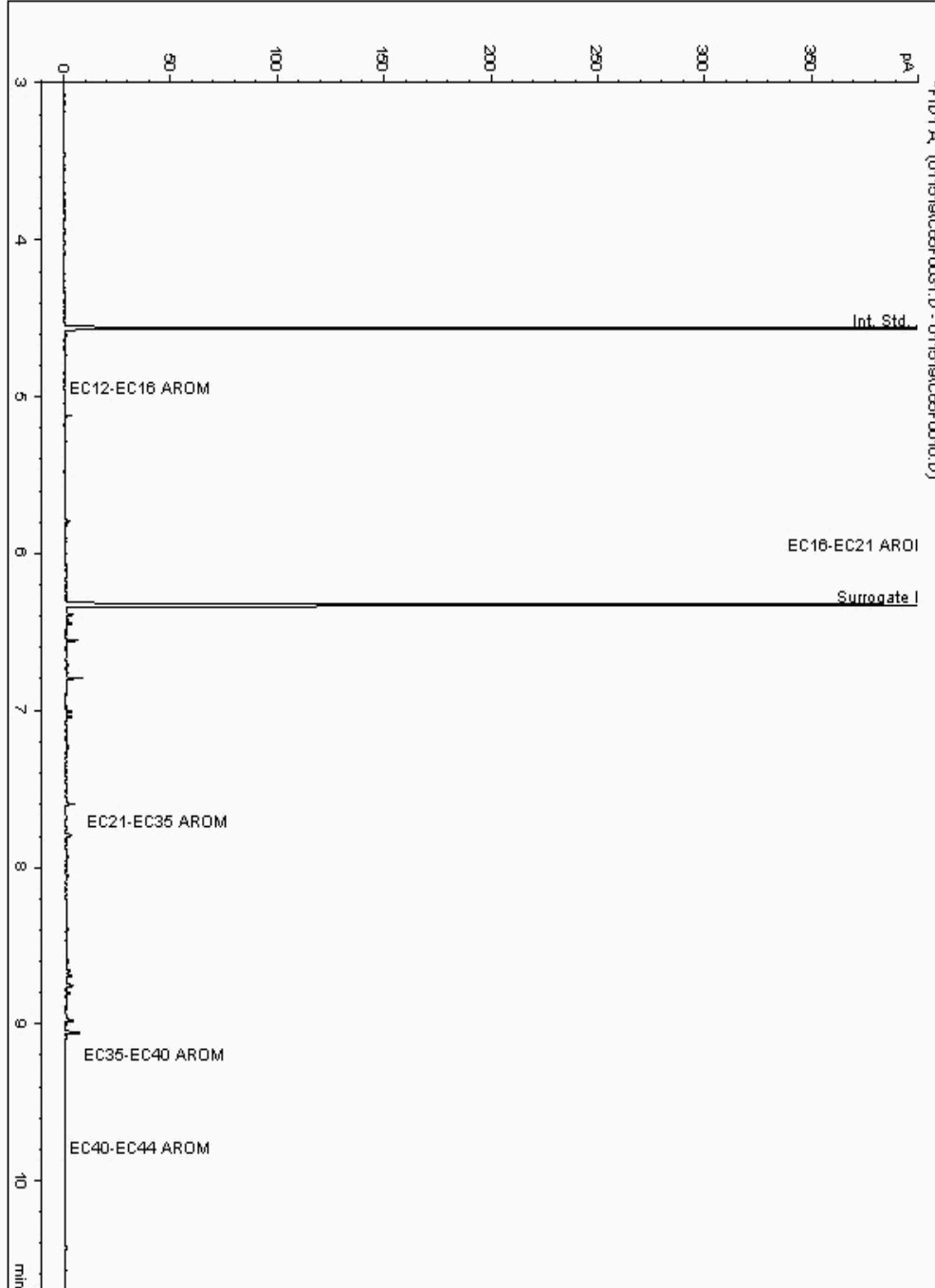
Analysis: EPH CWG (Aromatic) GC (S)
19109139

Sample No :
Sample ID : BH218

19,109,139Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948138-
Date Acquired : 15/01/2019 18:58:53 PM
Units : ppb
Dilution: BH218[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

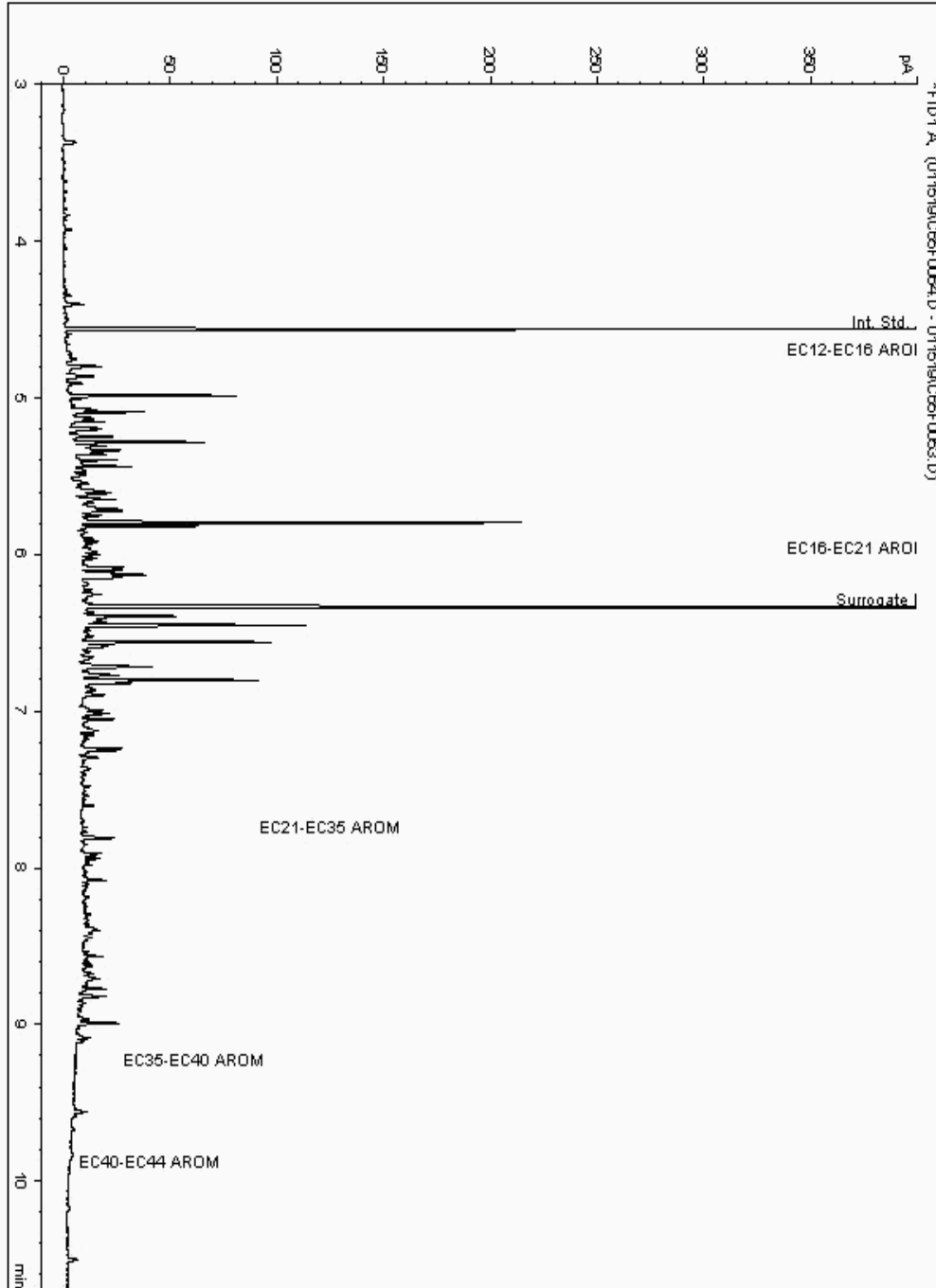
Analysis: EPH CWG (Aromatic) GC (S)
19109146

Sample No :
Sample ID : BH223

19,109,146Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946709-
Date Acquired : 17/01/2019 14:20:01 PM
Units : ppb
Dilution: BH223[3.00 - 4.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

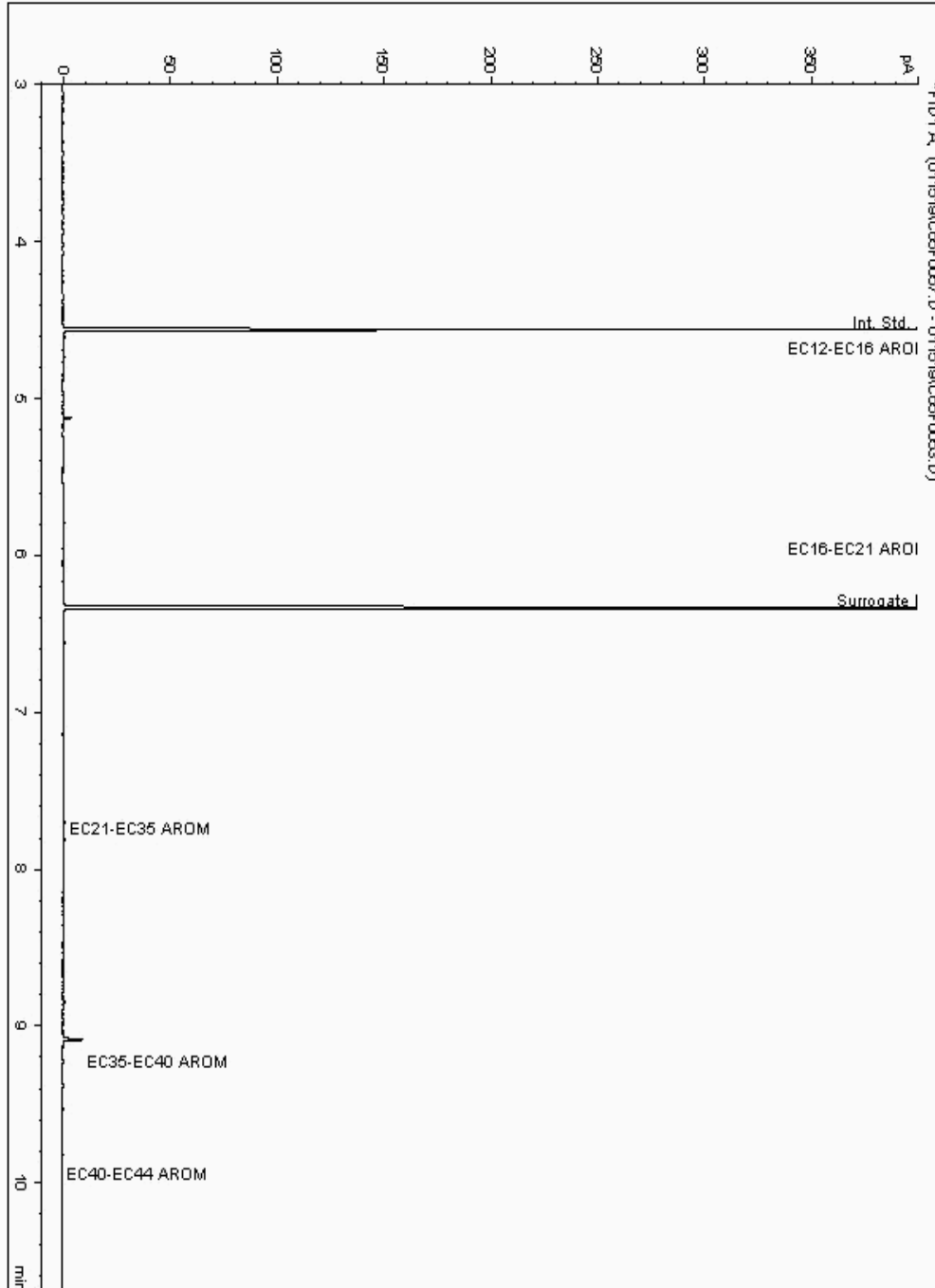
Analysis: EPH CWG (Aromatic) GC (S)
19109209

Sample No :
Sample ID : BH223

19,109,209Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946570-
Date Acquired : 17/01/2019 12:14:21 PM
Units : ppb
Dilution: BH223[11.00 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

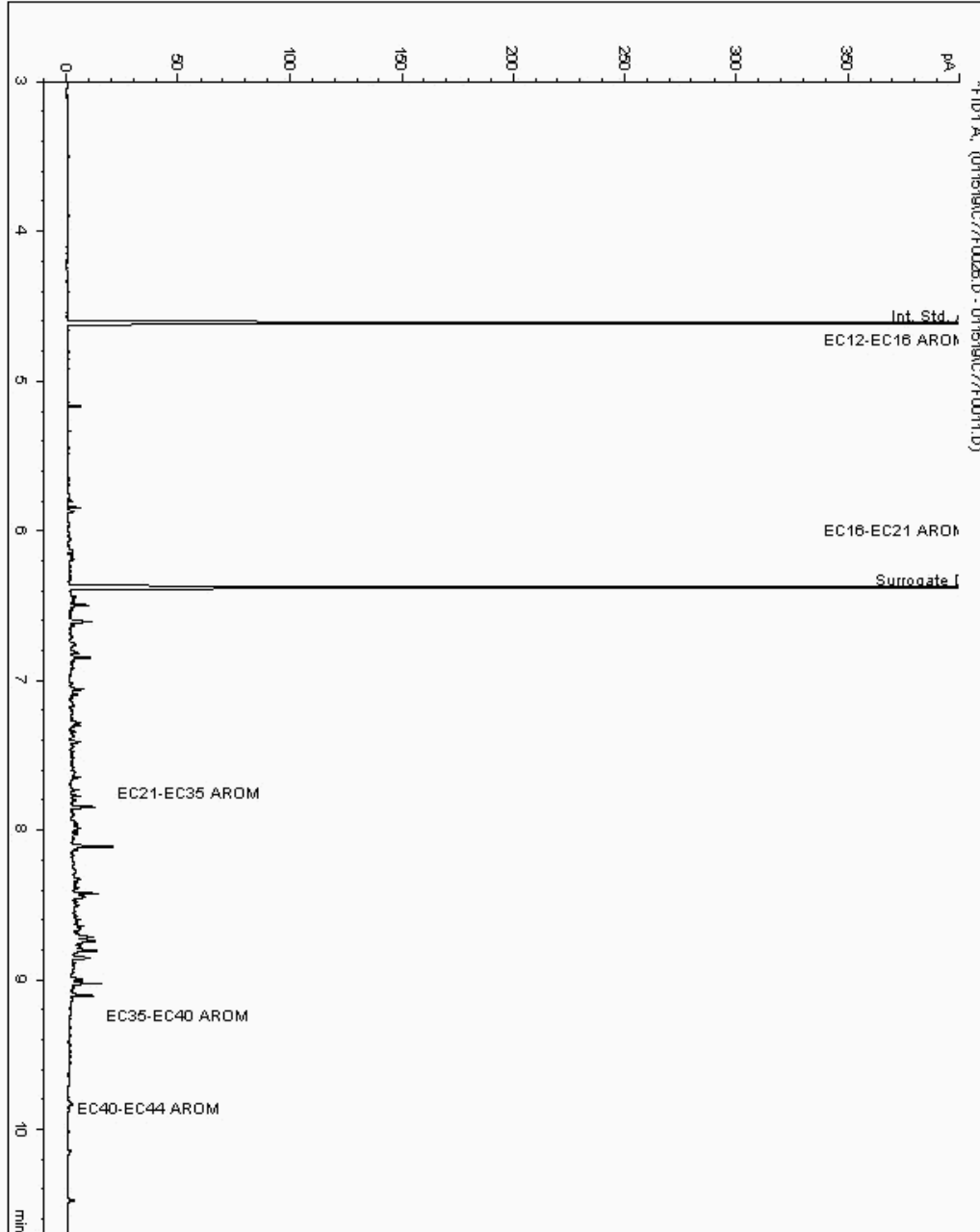
Analysis: EPH CWG (Aromatic) GC (S)
19109214

Sample No :
Sample ID : BH218

19,109,214 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948092-
Date Acquired : 1/16/2019 2:13:36 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

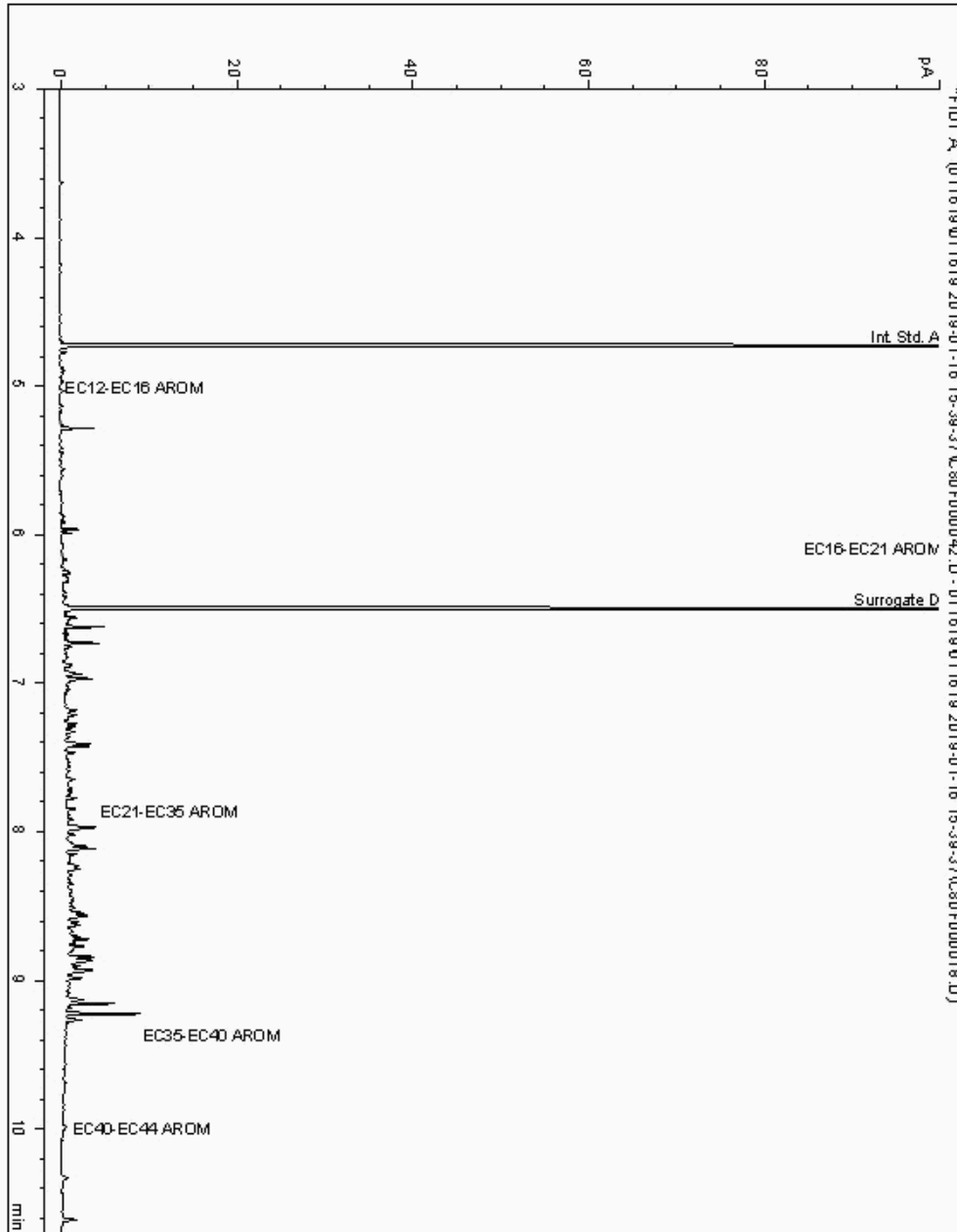
Analysis: EPH CWG (Aromatic) GC (S)
19109237

Sample No :
Sample ID : BH218

19,109,237Depth :0.00 - 0.50

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17948069-
Date Acquired : 17/01/19 04:43:06
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

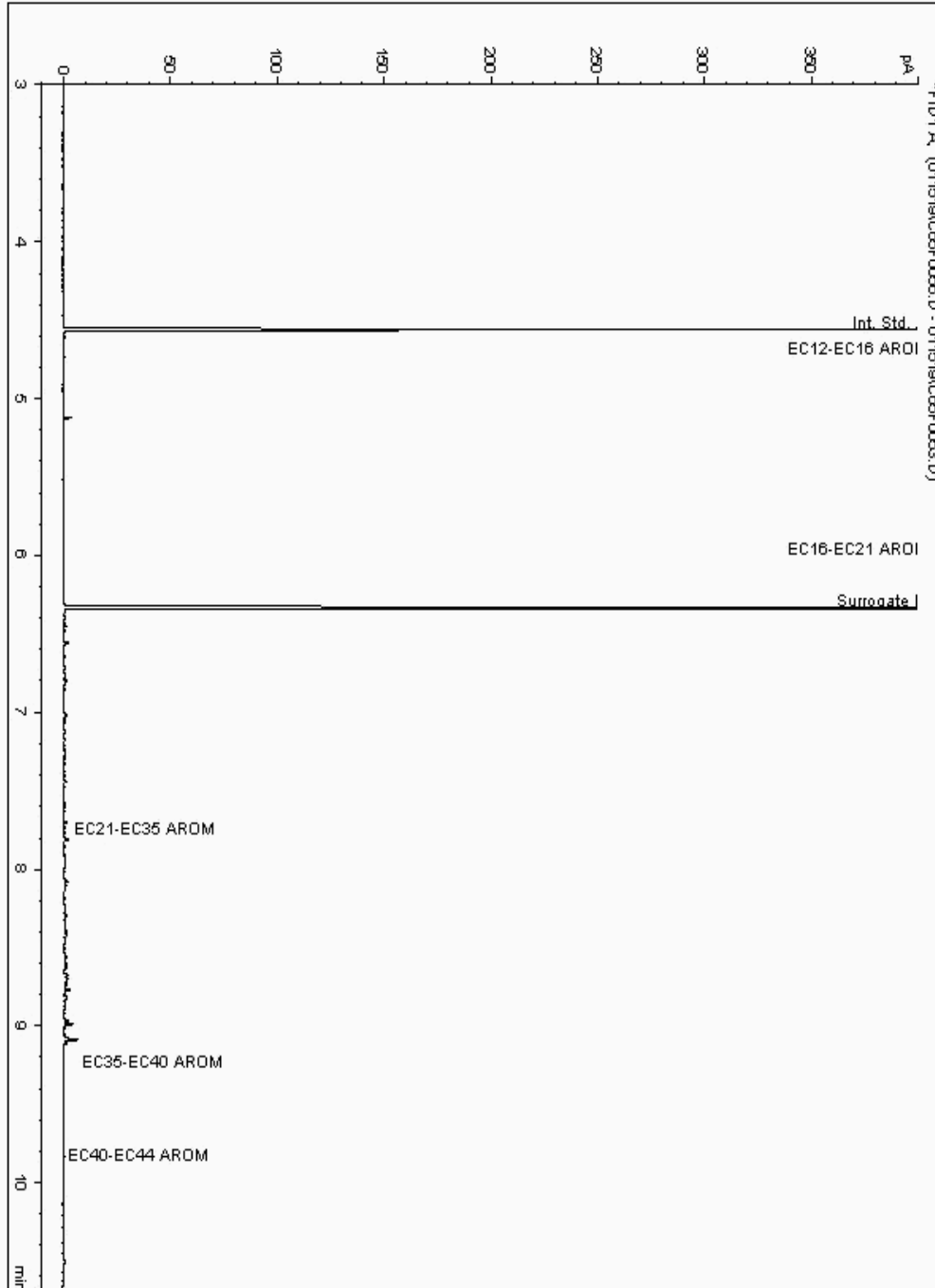
Analysis: EPH CWG (Aromatic) GC (S)
19109244

Sample No :
Sample ID : BH235

19,109,244Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947565-
Date Acquired : 17/01/2019 11:53:54 PM
Units : ppb
Dilution: BH235[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

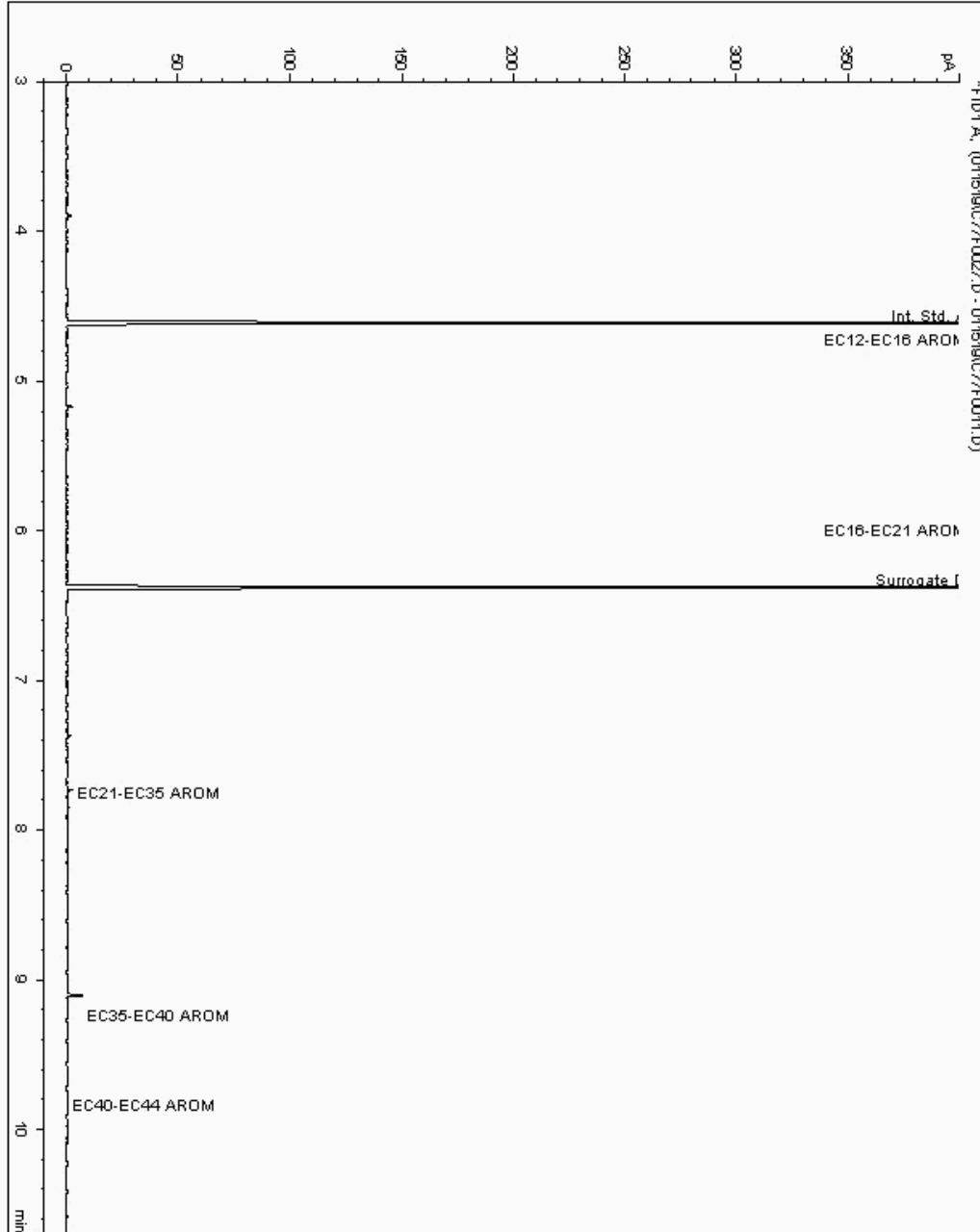
Analysis: EPH CWG (Aromatic) GC (S)
19109258

Sample No :
Sample ID : BH235

19,109,258 Depth : 9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947488-
Date Acquired : 1/16/2019 2:33:46 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

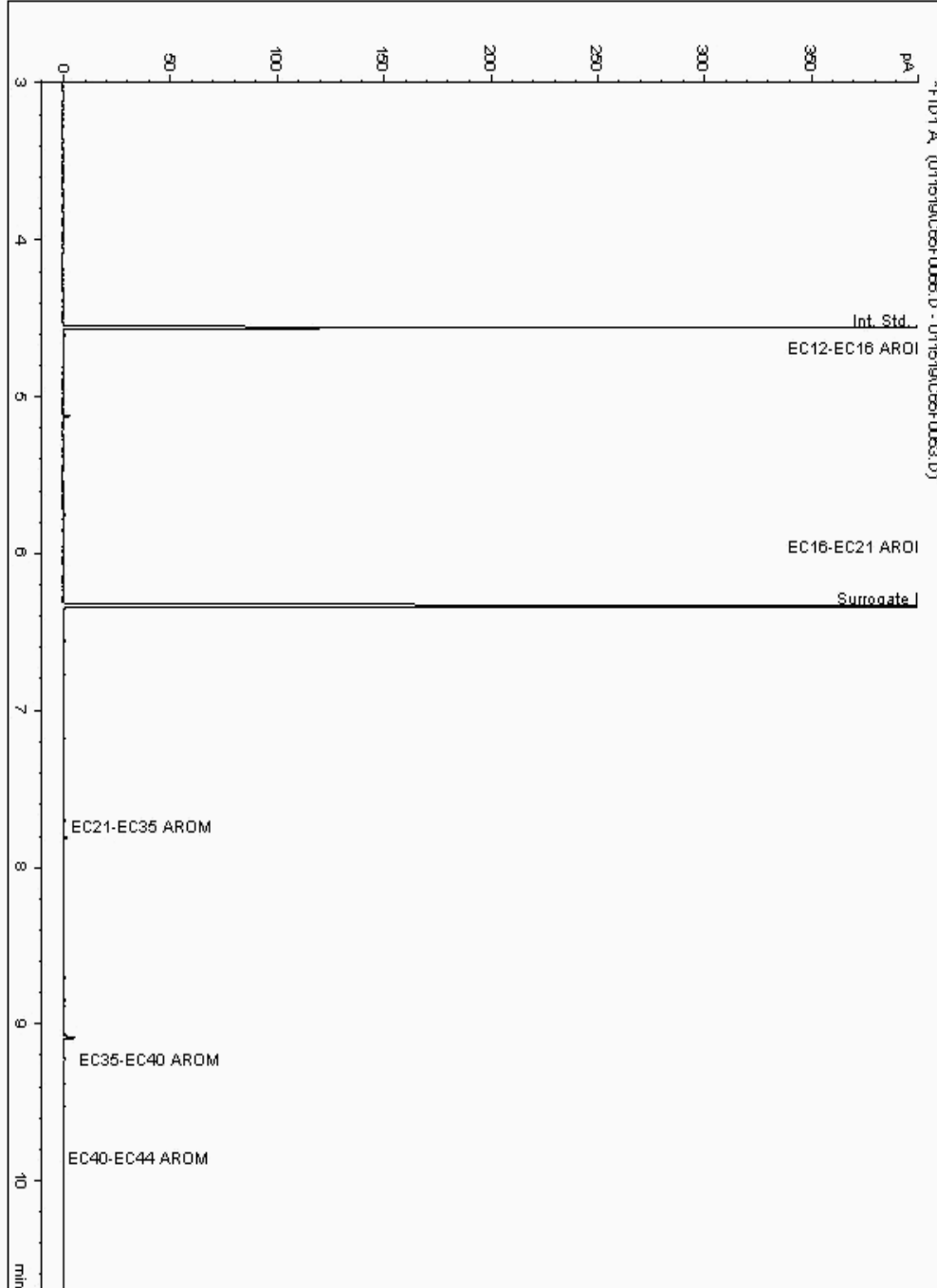
Analysis: EPH CWG (Aromatic) GC (S)
19109301

Sample No :
Sample ID : BH235

19,109,301 Depth : 8.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947519-
Date Acquired : 17/01/2019 14:52:49 PM
Units : ppb
Dilution: BH235[8.00 - 9.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

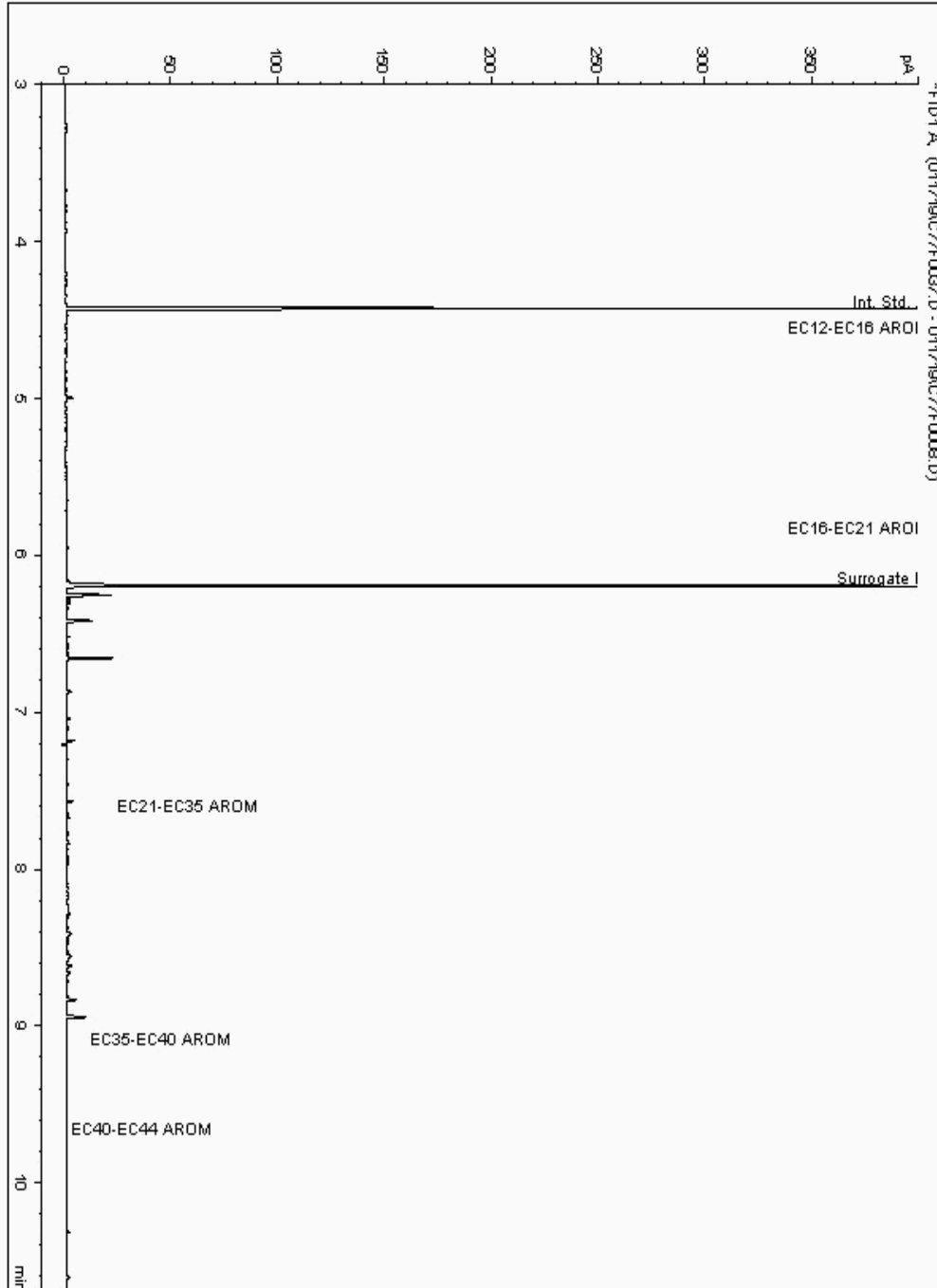
Analysis: EPH CWG (Aromatic) GC (S)
19109339

Sample No :
Sample ID : BH219

19,109,339Depth :6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946874-
Date Acquired : 18/01/2019 17:30:46 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

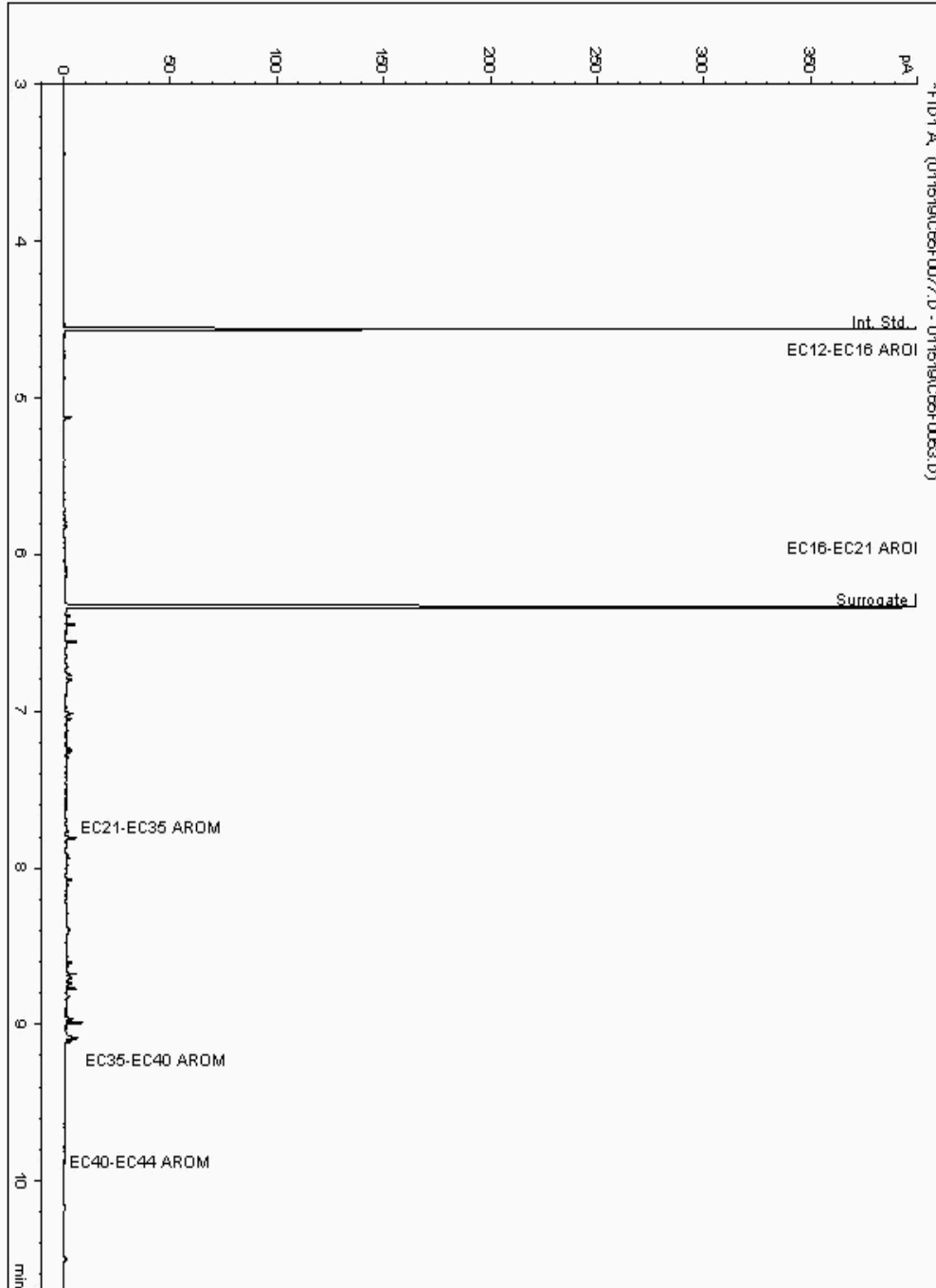
Analysis: EPH CWG (Aromatic) GC (S)
19109362

Sample No :
Sample ID : BH235

19,109,362Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947623-
Date Acquired : 17/01/2019 18:12:13 PM
Units : ppb
Dilution: BH235[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

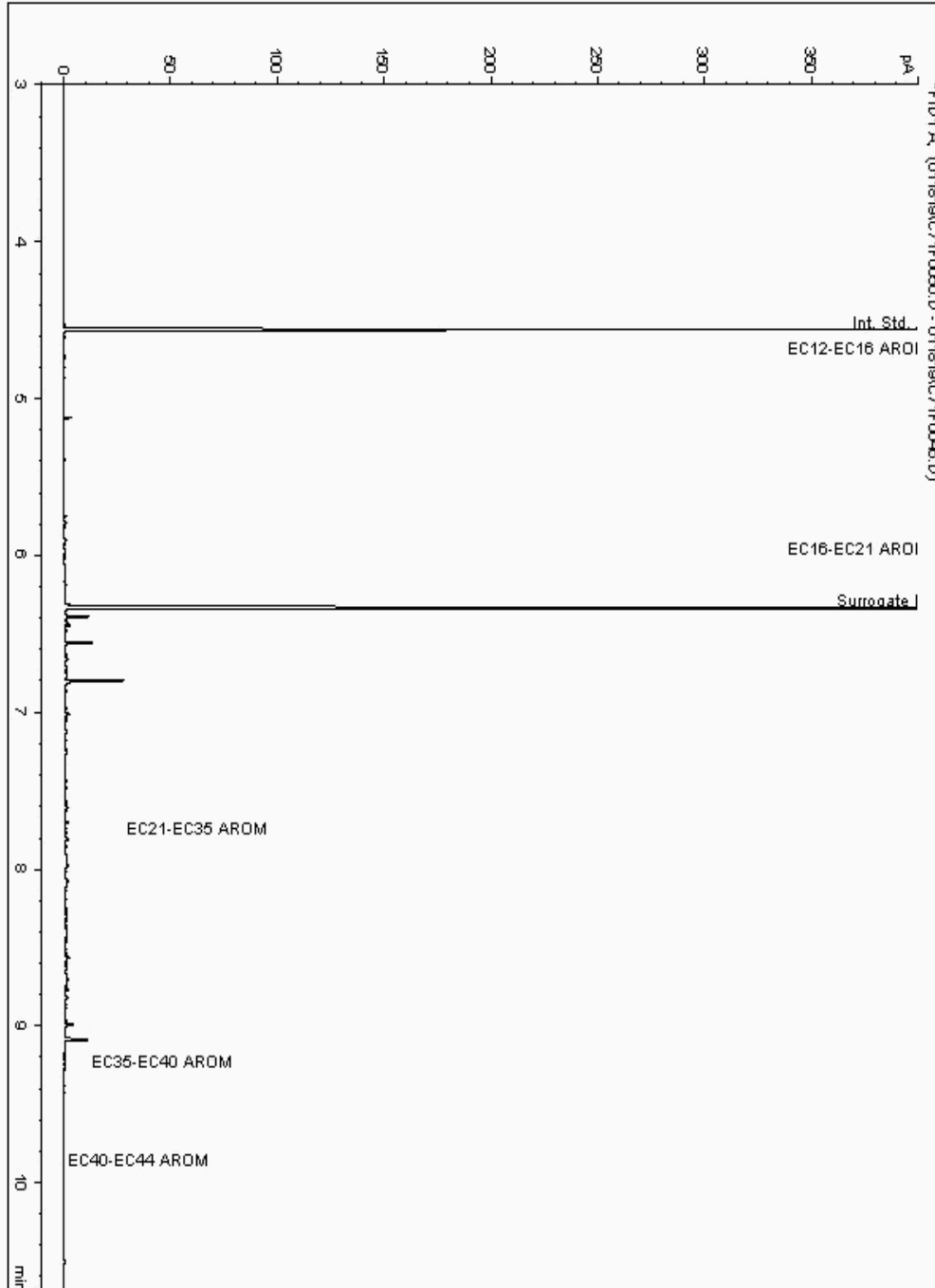
Analysis: EPH CWG (Aromatic) GC (S)
19109363

Sample No :
Sample ID : BH219

19,109,363 Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946852-
Date Acquired : 18/01/2019 23:56:22 PM
Units : ppb
Dilution: BH219[7.00 - 8.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

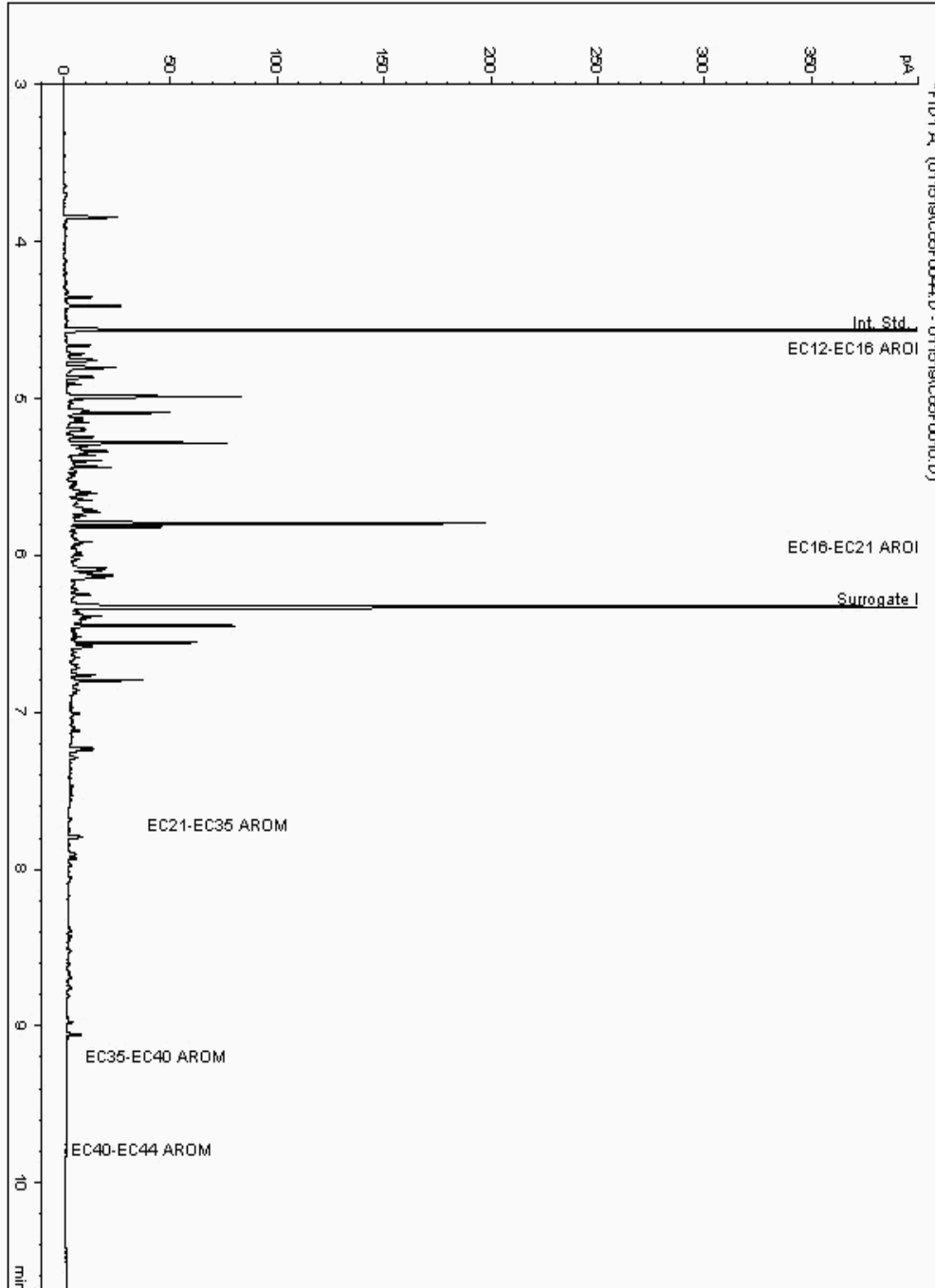
Analysis: EPH CWG (Aromatic) GC (S)
19109420

Sample No :
Sample ID : BH224

19,109,420Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947834-
Date Acquired : 15/01/2019 22:36:07 PM
Units : ppb
Dilution: BH224[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

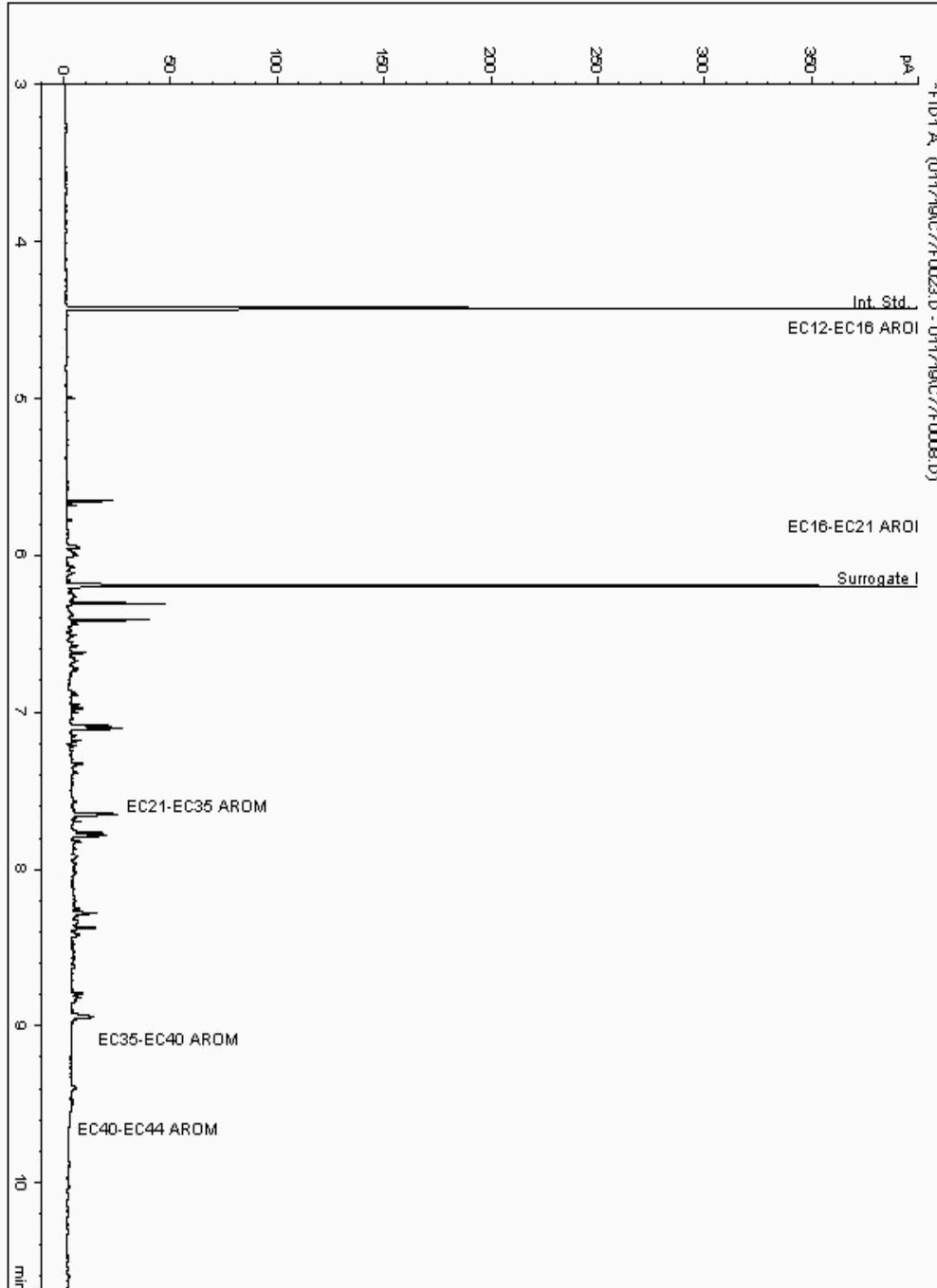
Analysis: EPH CWG (Aromatic) GC (S)
19109427

Sample No :
Sample ID : BH219

19,109,427 Depth : 0.00 - 0.50

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946972-
Date Acquired : 18/01/2019 13:20:24 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

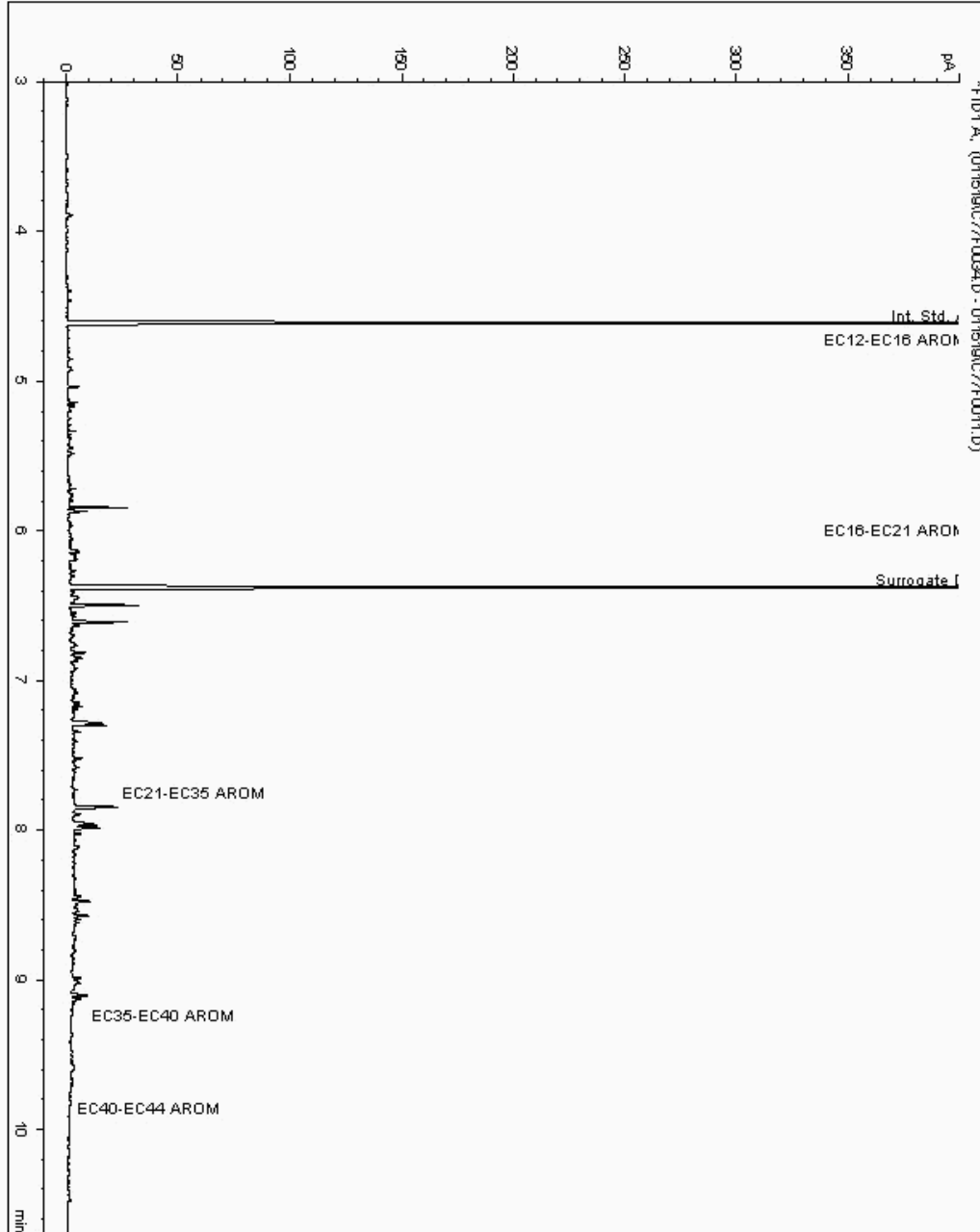
Analysis: EPH CWG (Aromatic) GC (S)
19109468

Sample No :
Sample ID : BH224

19,109,468 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948000-
Date Acquired : 1/16/2019 4:46:50 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

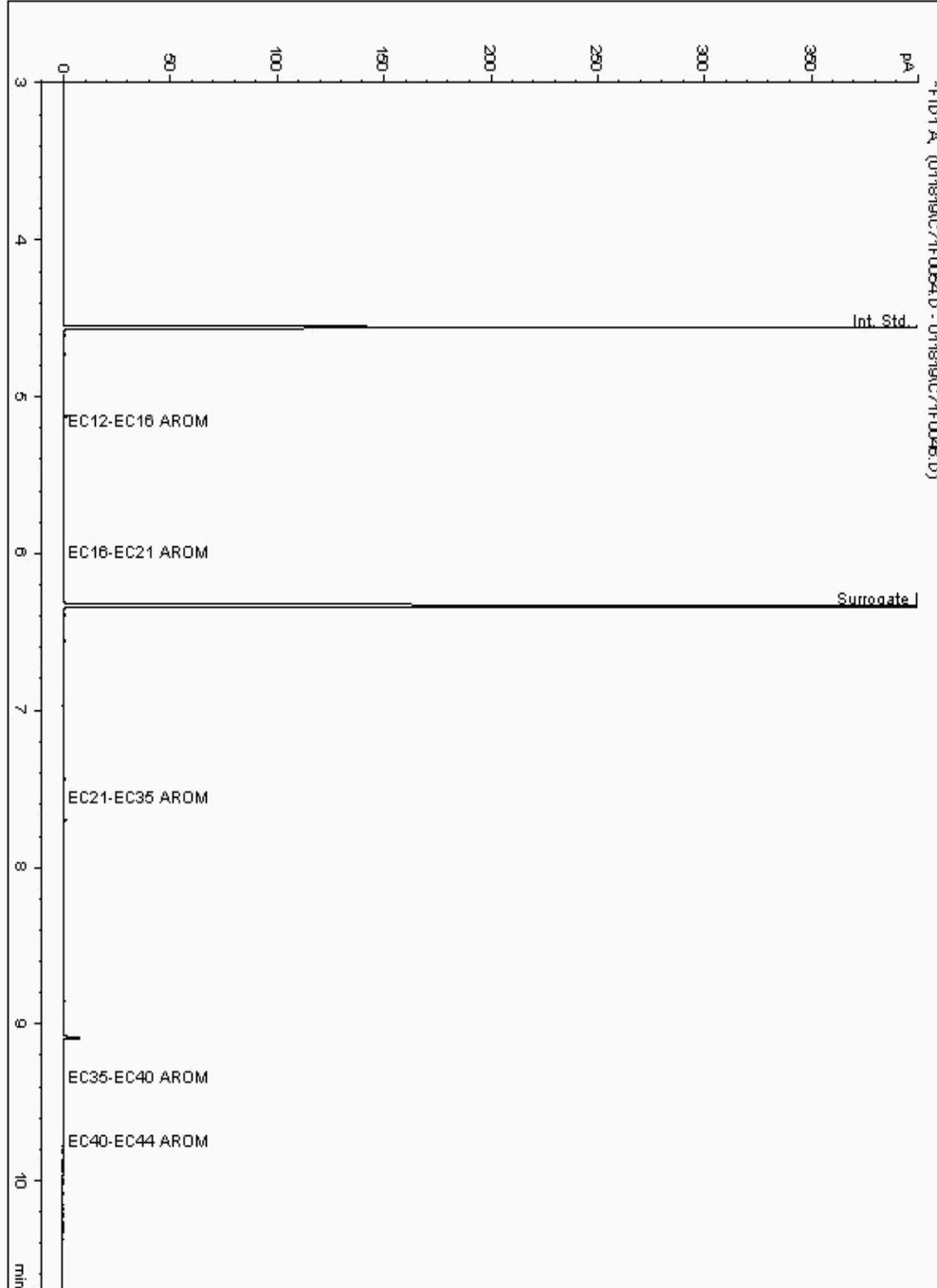
Analysis: EPH CWG (Aromatic) GC (S)
19109503

Sample No :
Sample ID : BH219

19,109,503Depth :9.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946802-
Date Acquired : 19/01/2019 01:09:32 PM
Units : ppb
Dilution: BH219[9.00 - 10.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

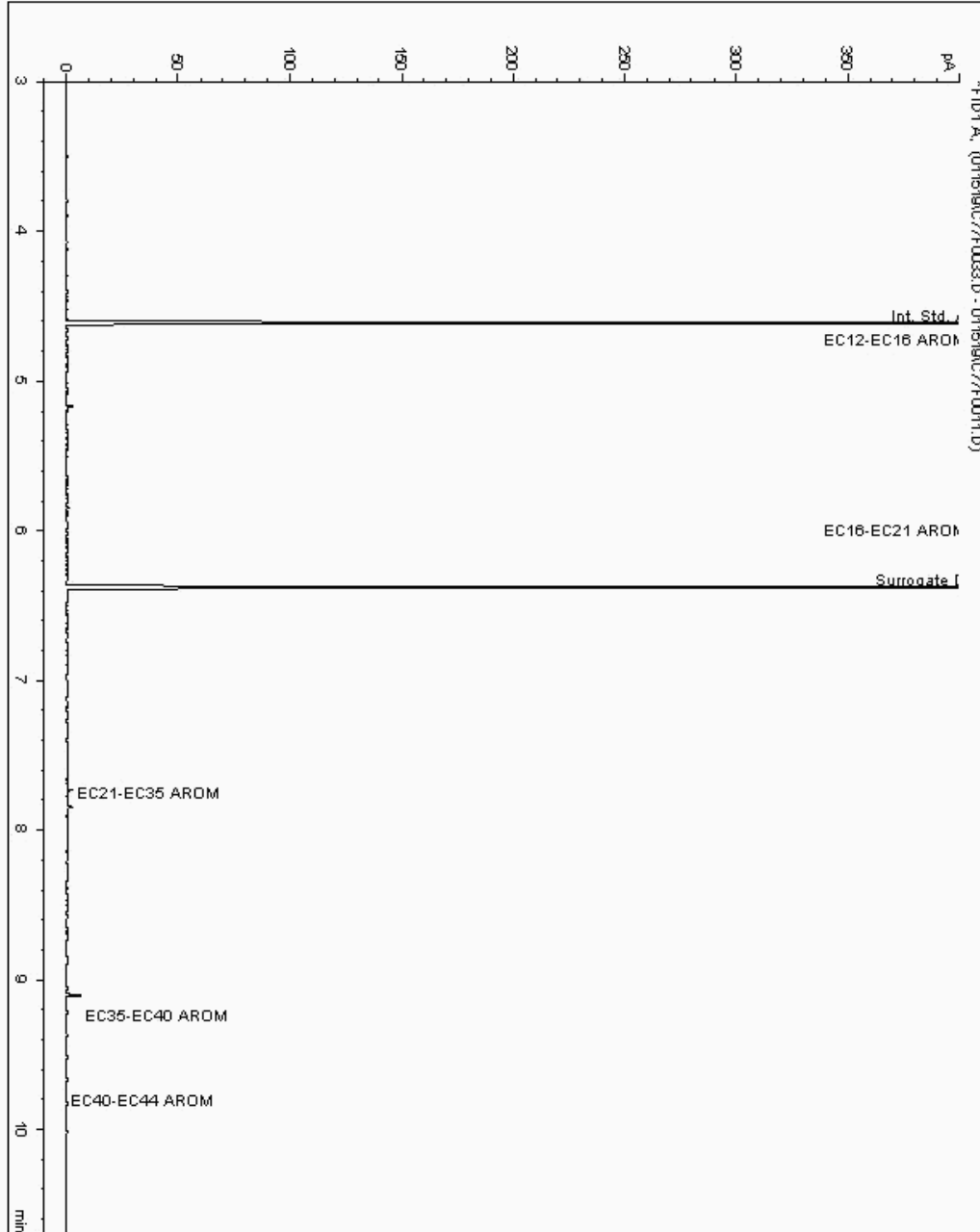
Analysis: EPH CWG (Aromatic) GC (S)
19109505

Sample No :
Sample ID : BH218

19,109,505 Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948325-
Date Acquired : 1/16/2019 4:26:41 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

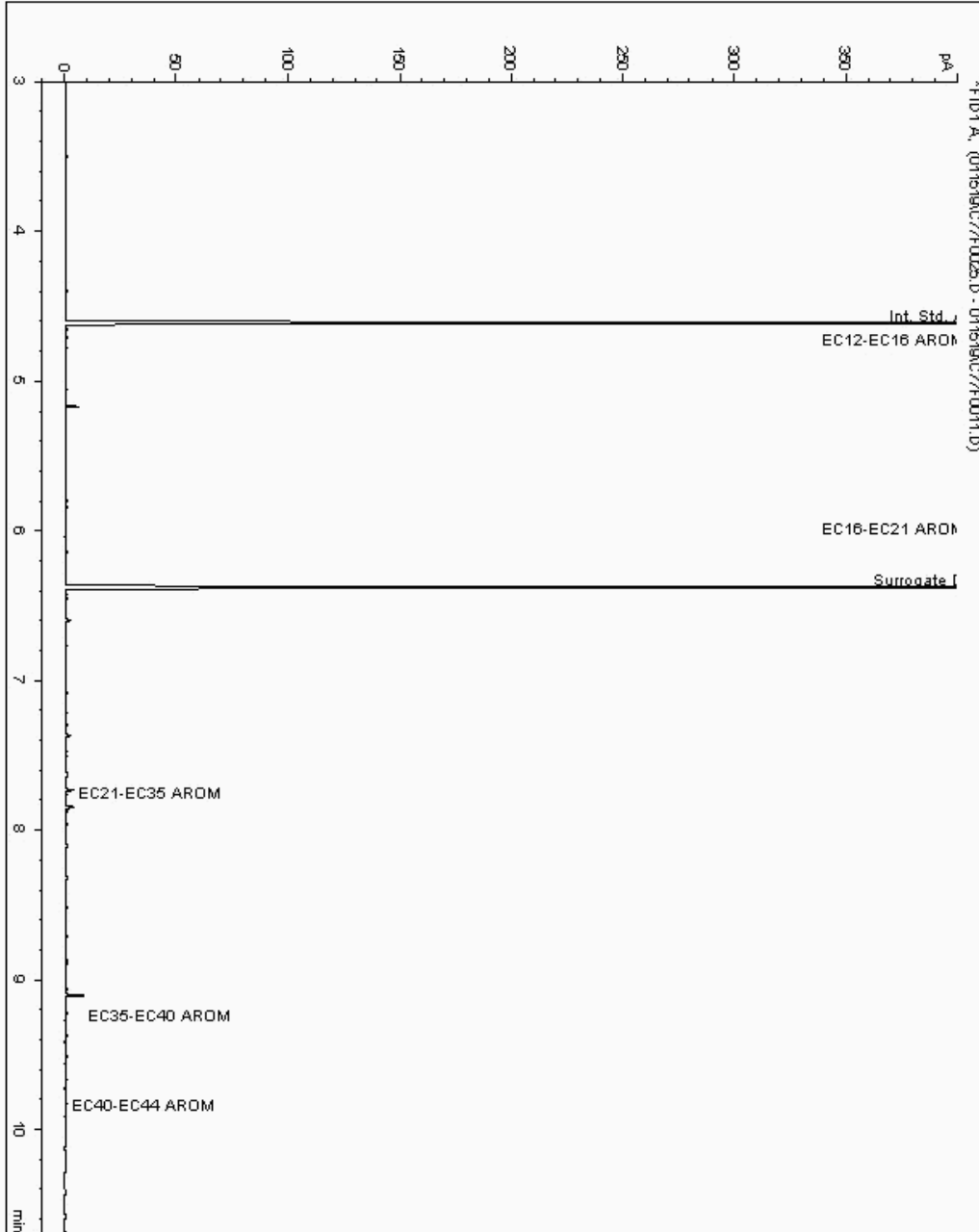
Analysis: EPH CWG (Aromatic) GC (S)
19109522

Sample No :
Sample ID : BH218

19,109,522 Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948302-
Date Acquired : 1/16/2019 1:53:28 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

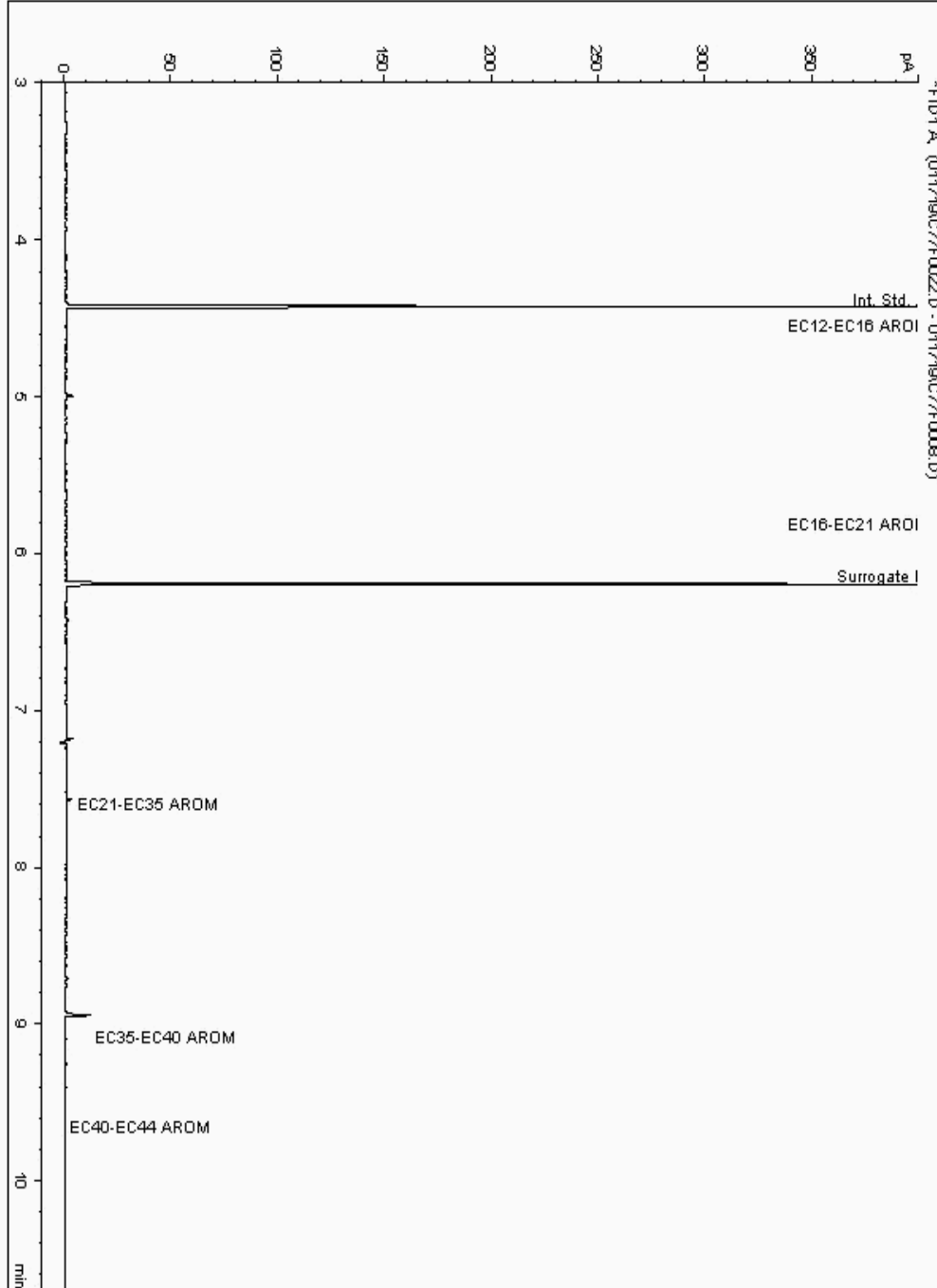
Analysis: EPH CWG (Aromatic) GC (S)
19109526

Sample No :
Sample ID : BH219

19,109,526 Depth : 8.00 - 9.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946829-
Date Acquired : 18/01/2019 13:00:18 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

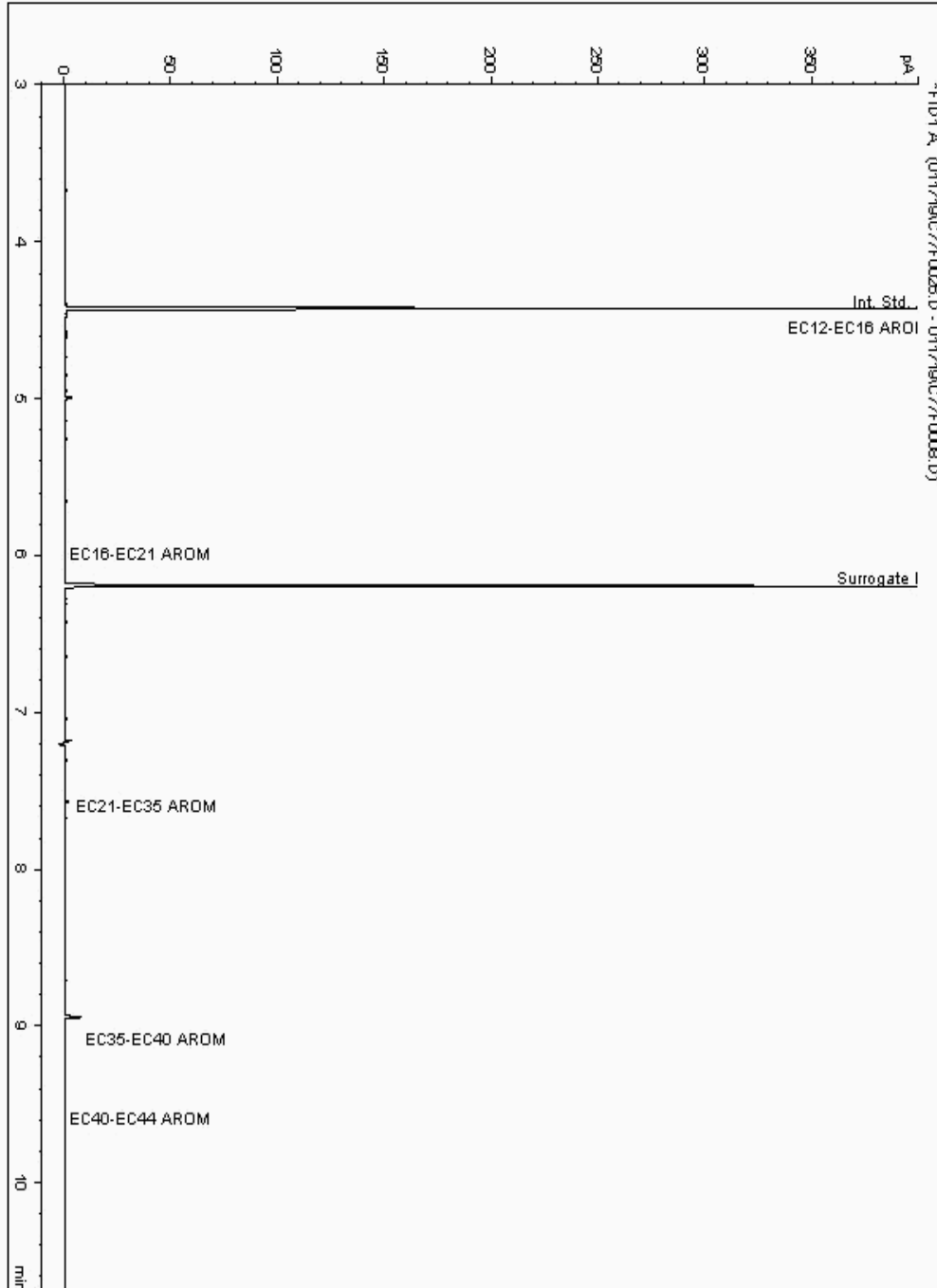
Analysis: EPH CWG (Aromatic) GC (S)
19109583

Sample No :
Sample ID : BH222

19,109,583 Depth : 9.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947151-
Date Acquired : 18/01/2019 14:20:58 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

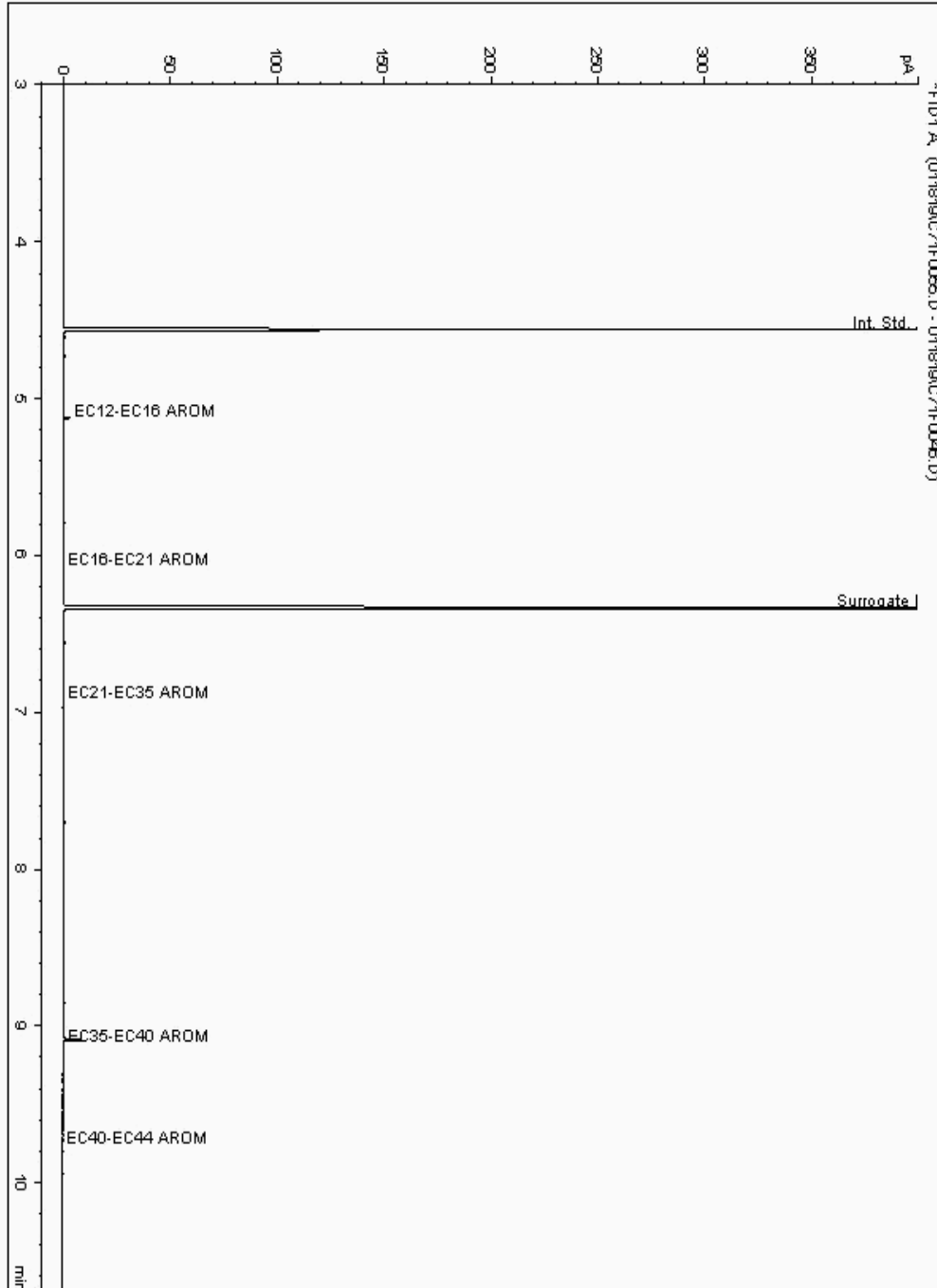
Analysis: EPH CWG (Aromatic) GC (S)
19109653

Sample No :
Sample ID : BH222

19,109,653Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947121-
Date Acquired : 19/01/2019 01:29:47 PM
Units : ppb
Dilution: BH222[10.00 - 11.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

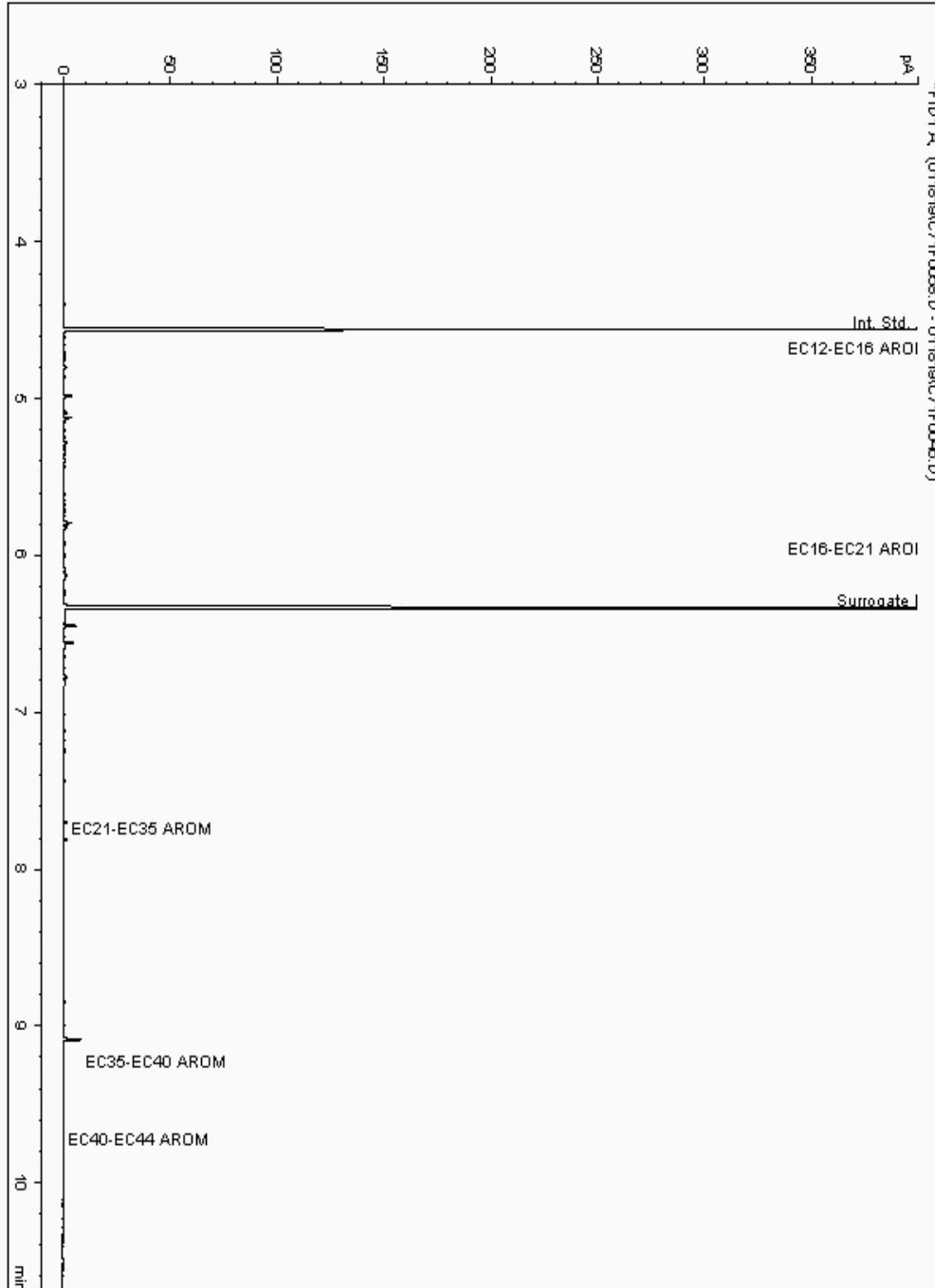
Analysis: EPH CWG (Aromatic) GC (S)
19109746

Sample No :
Sample ID : BH222

19,109,746Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947197-
Date Acquired : 19/01/2019 02:22:47 PM
Units : ppb
Dilution: BH222[6.00 - 7.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

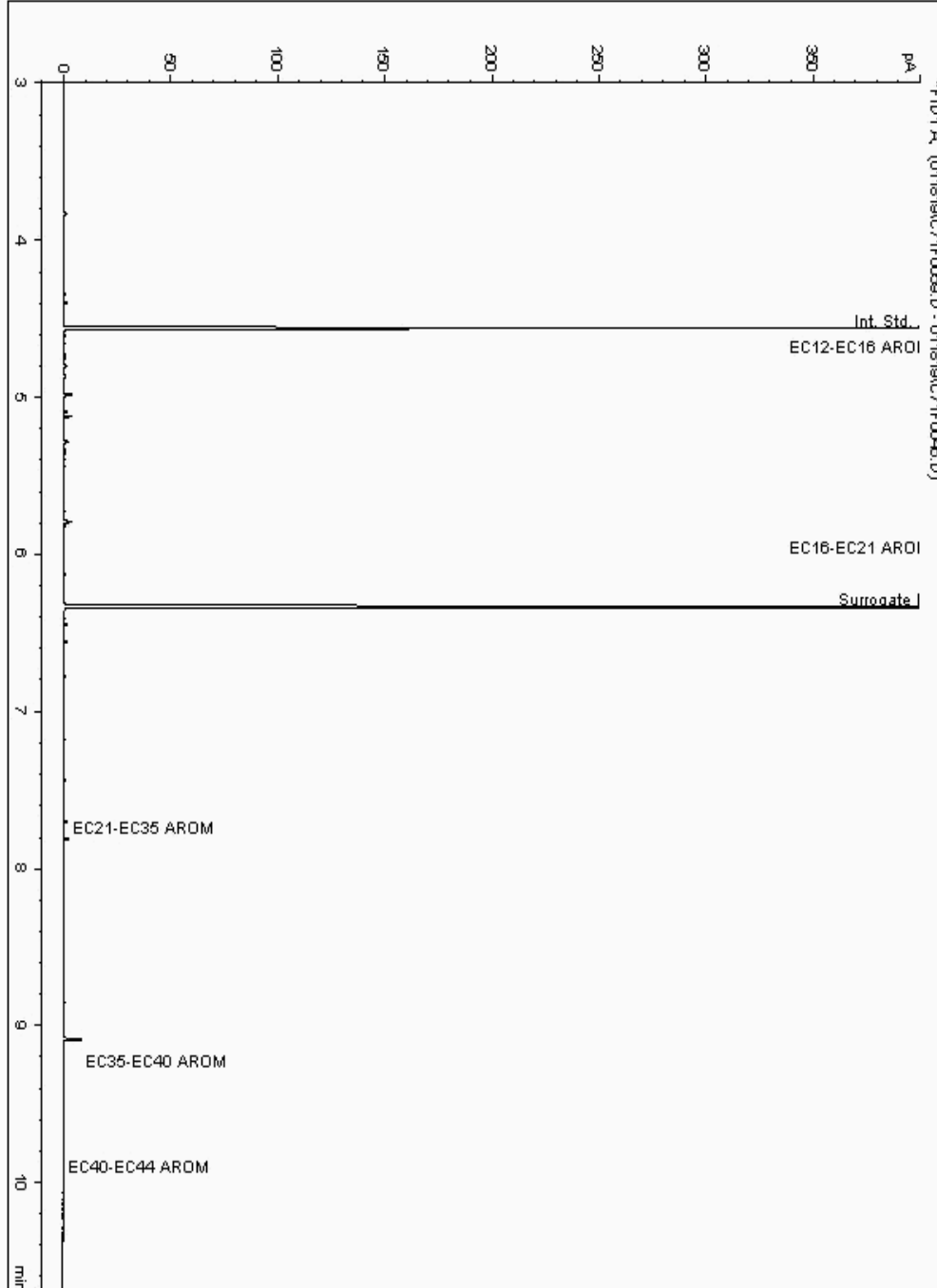
Analysis: EPH CWG (Aromatic) GC (S)
19109758

Sample No :
Sample ID : BH223

19,109,758Depth :0.00 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946755-
Date Acquired : 19/01/2019 02:43:00 PM
Units : ppb
Dilution: BH223[0.00 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

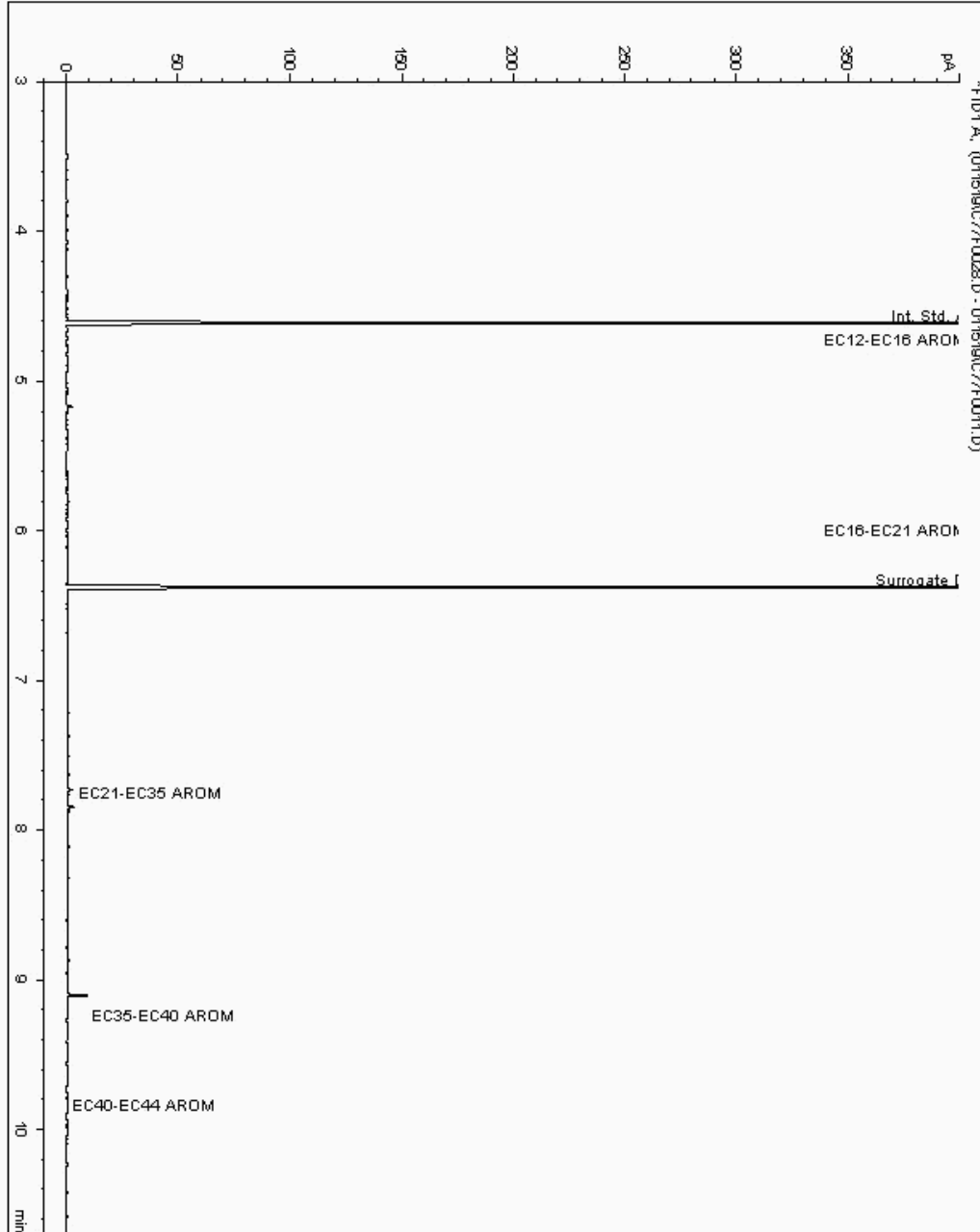
Analysis: EPH CWG (Aromatic) GC (S)
19109781

Sample No :
Sample ID : BH218

19,109,781 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948279-
Date Acquired : 1/16/2019 2:53:57 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

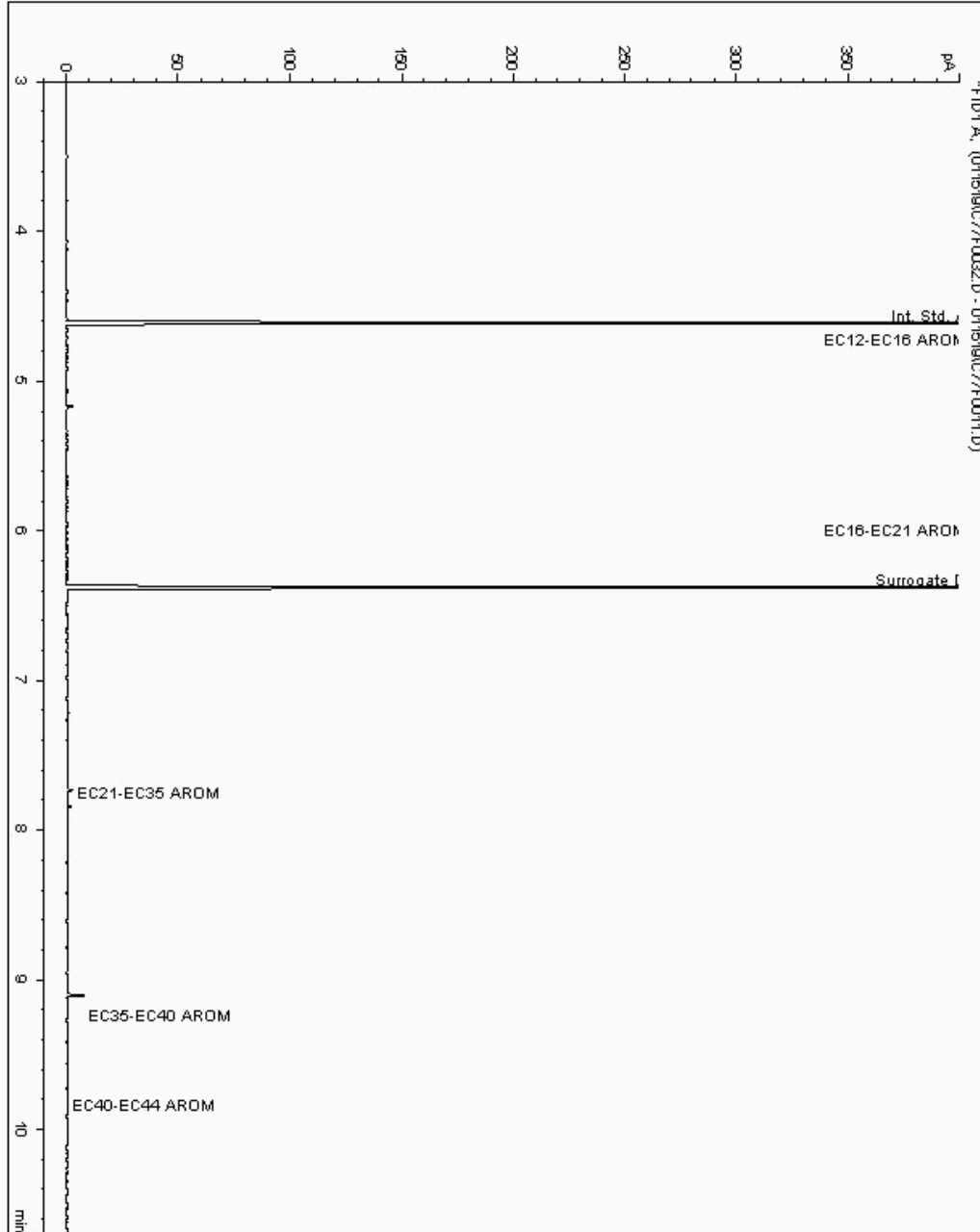
Analysis: EPH CWG (Aromatic) GC (S)
19109808

Sample No :
Sample ID : BH218

19,109,808Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948253-
Date Acquired : 1/16/2019 4:06:28 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

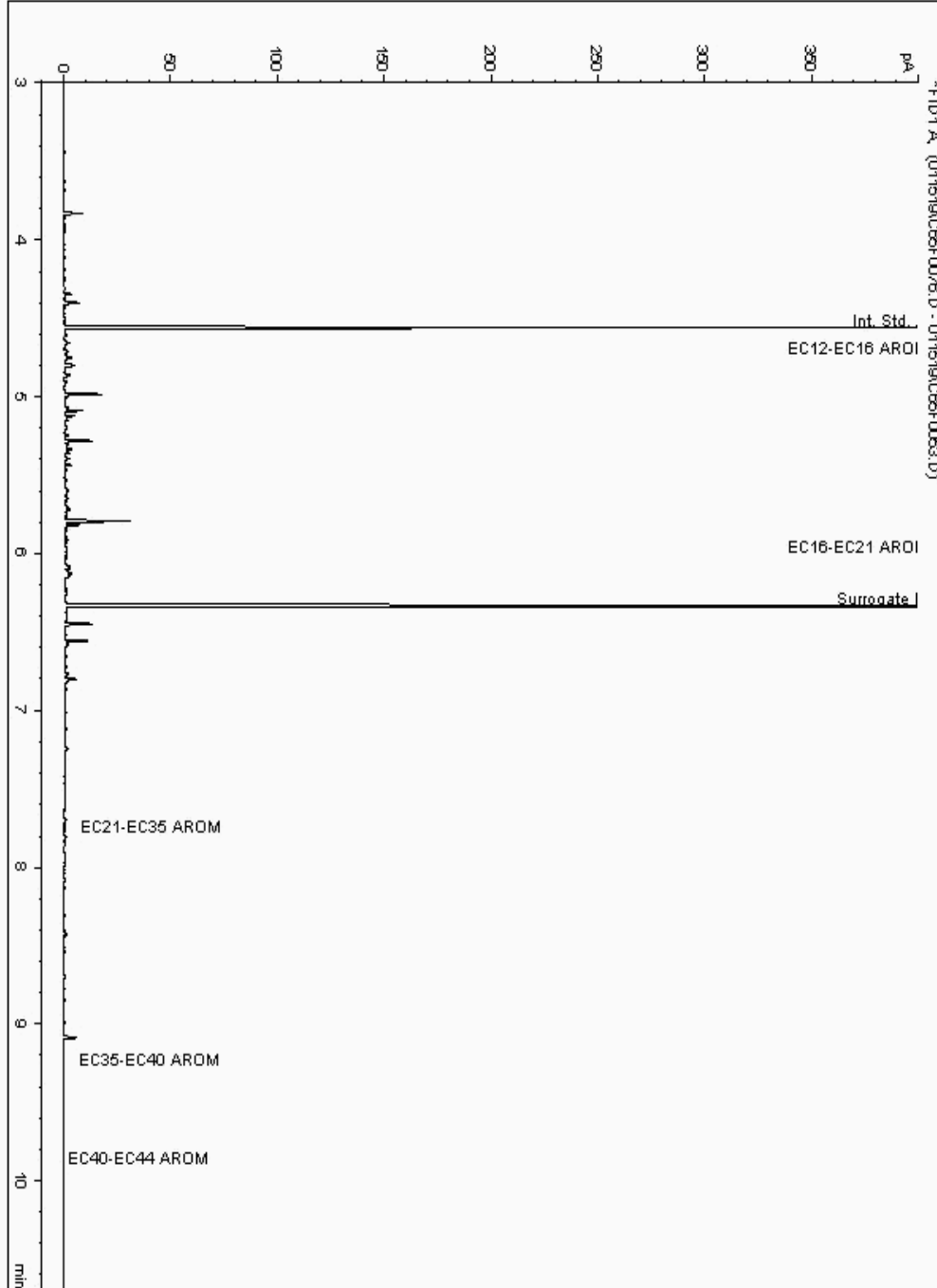
Analysis: EPH CWG (Aromatic) GC (S)
19109927

Sample No :
Sample ID : BH224

19,109,927Depth : 11.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947788-
Date Acquired : 17/01/2019 17:51:56 PM
Units : ppb
Dilution: BH224[11.00 - 12.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

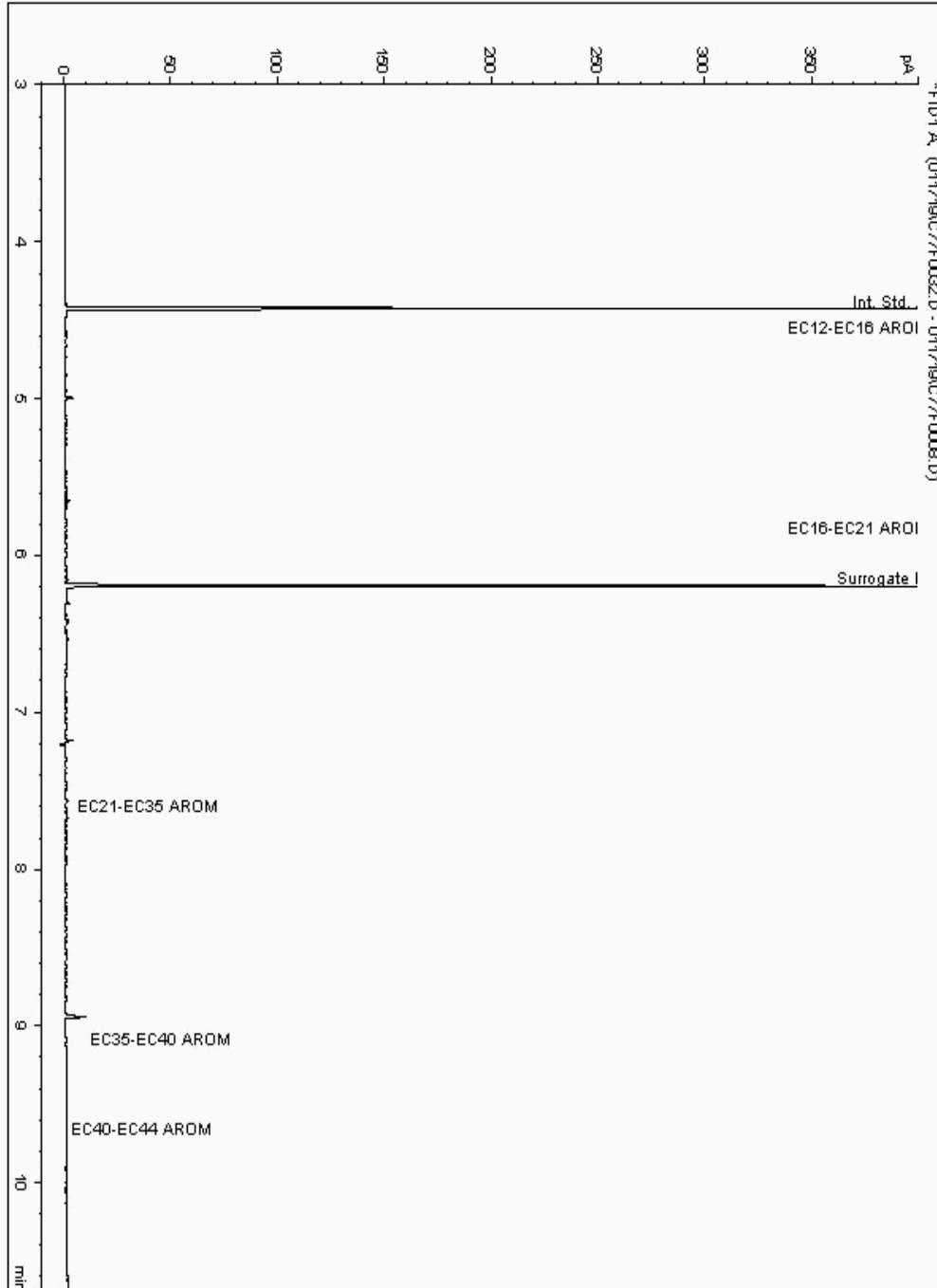
Analysis: EPH CWG (Aromatic) GC (S)
19110020

Sample No :
Sample ID : BH223

19,110,020Depth :6.00 - 7.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17946642-
Date Acquired : 18/01/2019 15:57:51 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

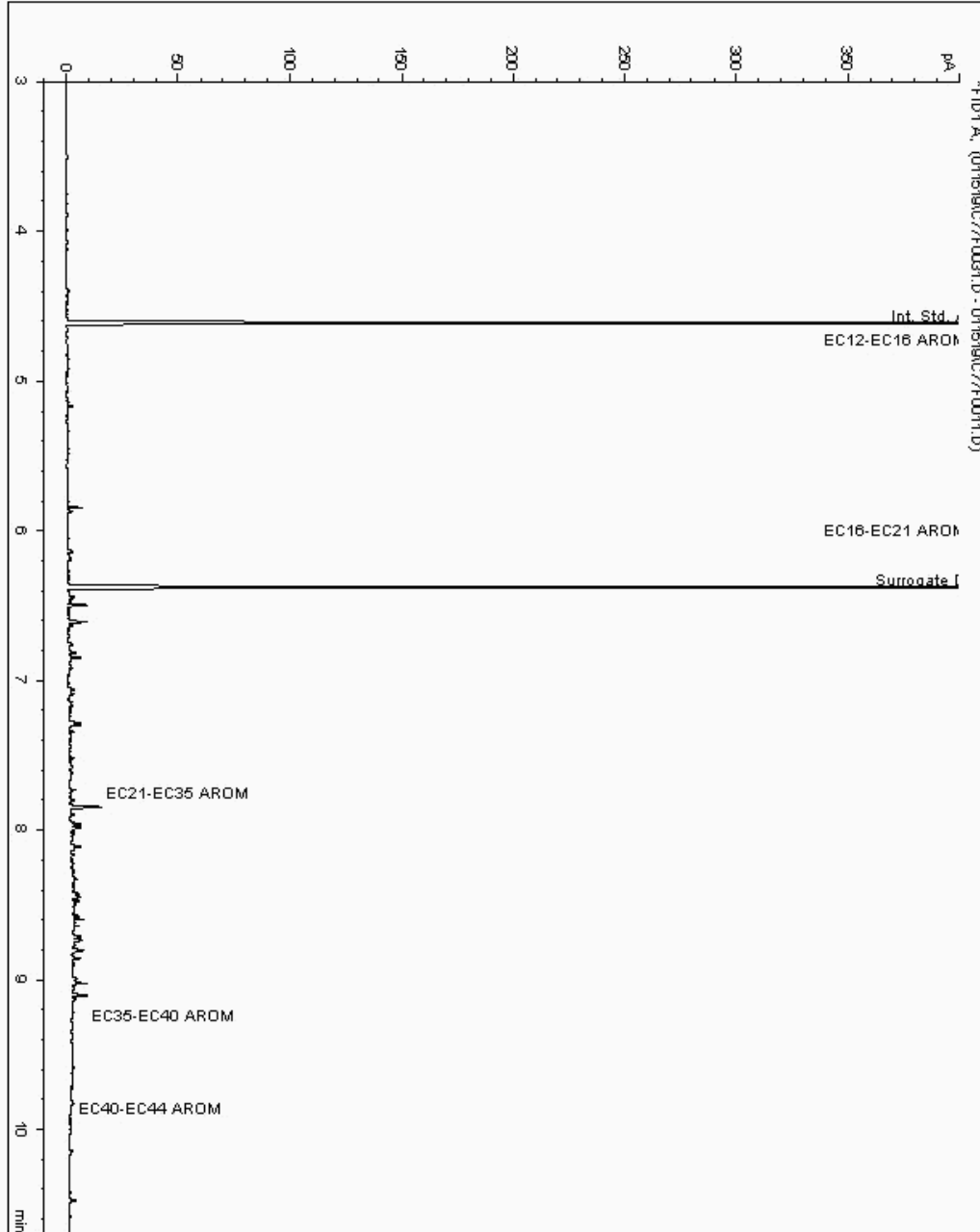
Analysis: EPH CWG (Aromatic) GC (S)
19110047

Sample No :
Sample ID : BH235

19,110,047Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947671-
Date Acquired : 1/16/2019 3:46:15 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

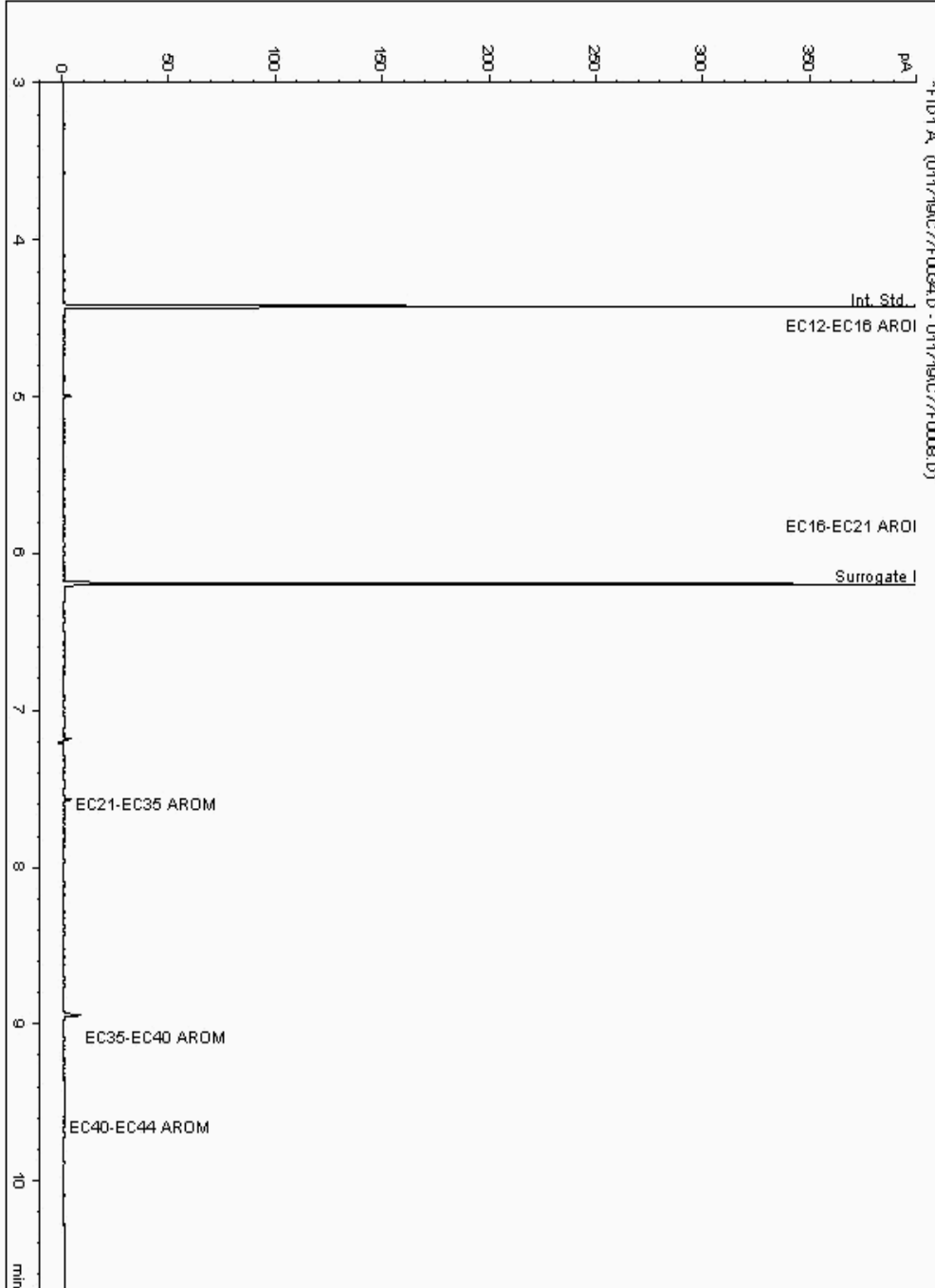
Analysis: EPH CWG (Aromatic) GC (S)
19110203

Sample No :
Sample ID : BH222

19,110,203Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947063-
Date Acquired : 18/01/2019 16:38:08 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

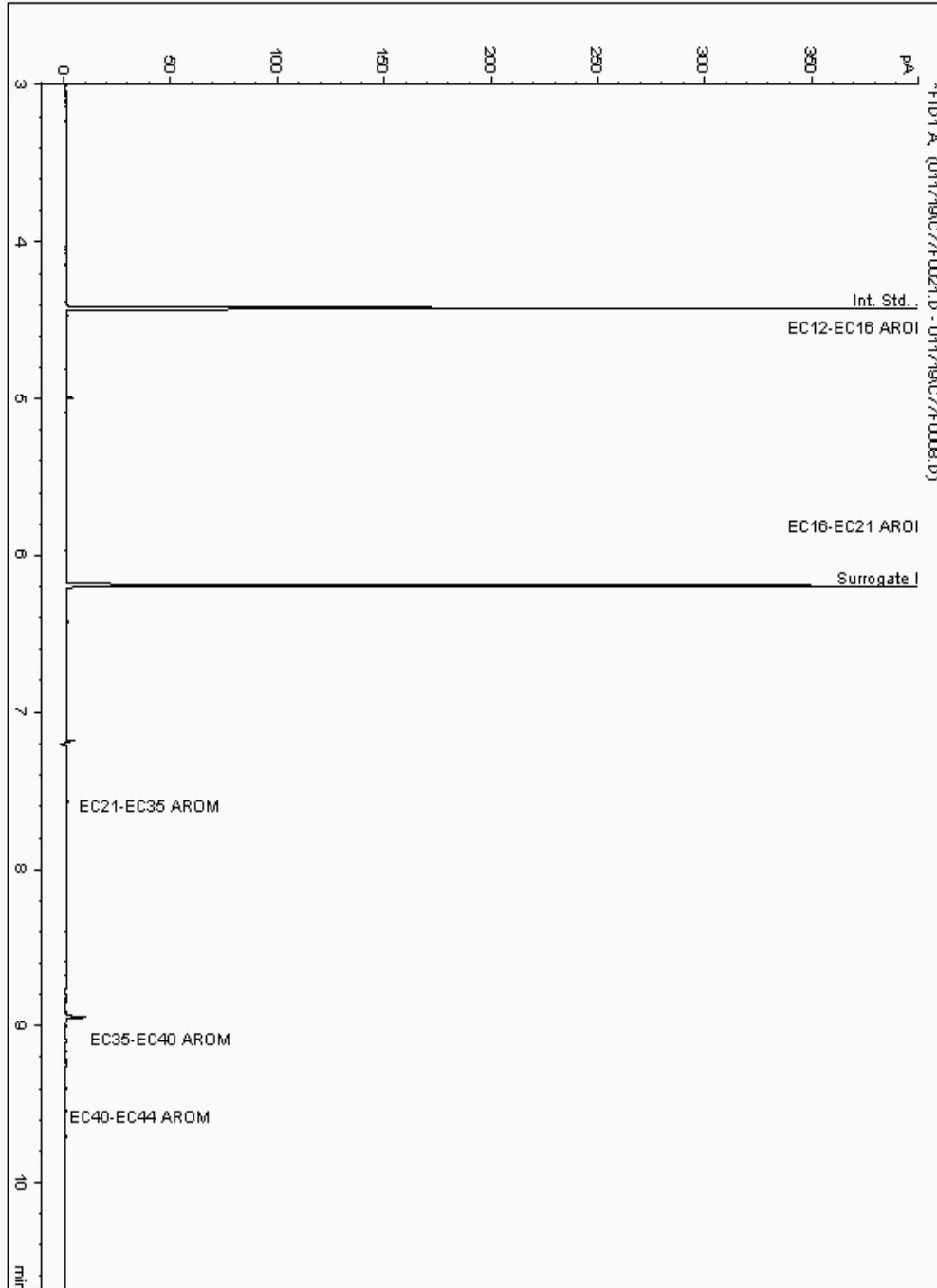
Analysis: EPH CWG (Aromatic) GC (S)
19110211

Sample No :
Sample ID : BH219

19,110,211Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947040-
Date Acquired : 18/01/2019 12:40:12 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

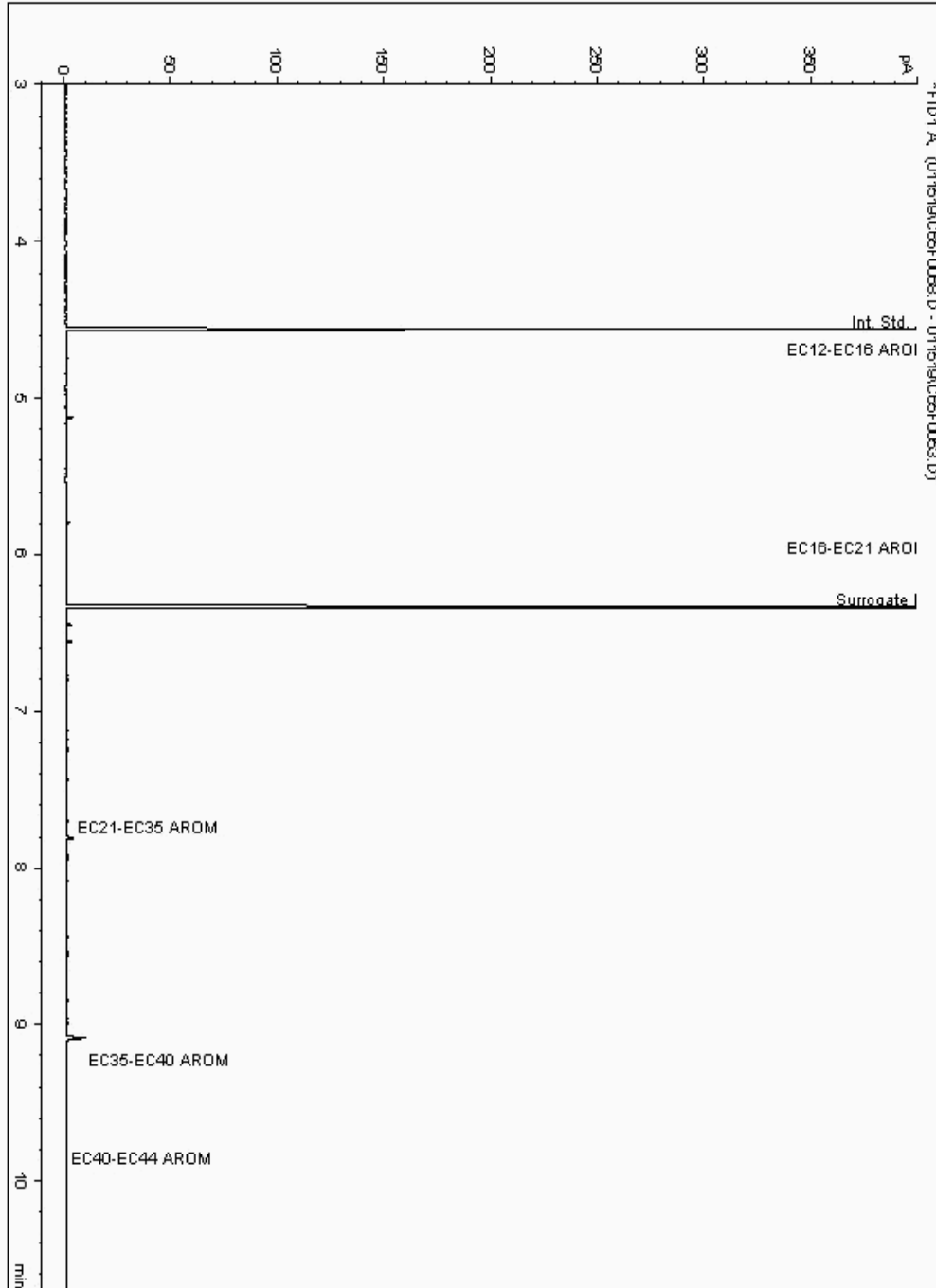
Analysis: EPH CWG (Aromatic) GC (S)
19110228

Sample No :
Sample ID : BH224

19,110,228Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948046-
Date Acquired : 17/01/2019 15:33:53 PM
Units : ppb
Dilution: BH224[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

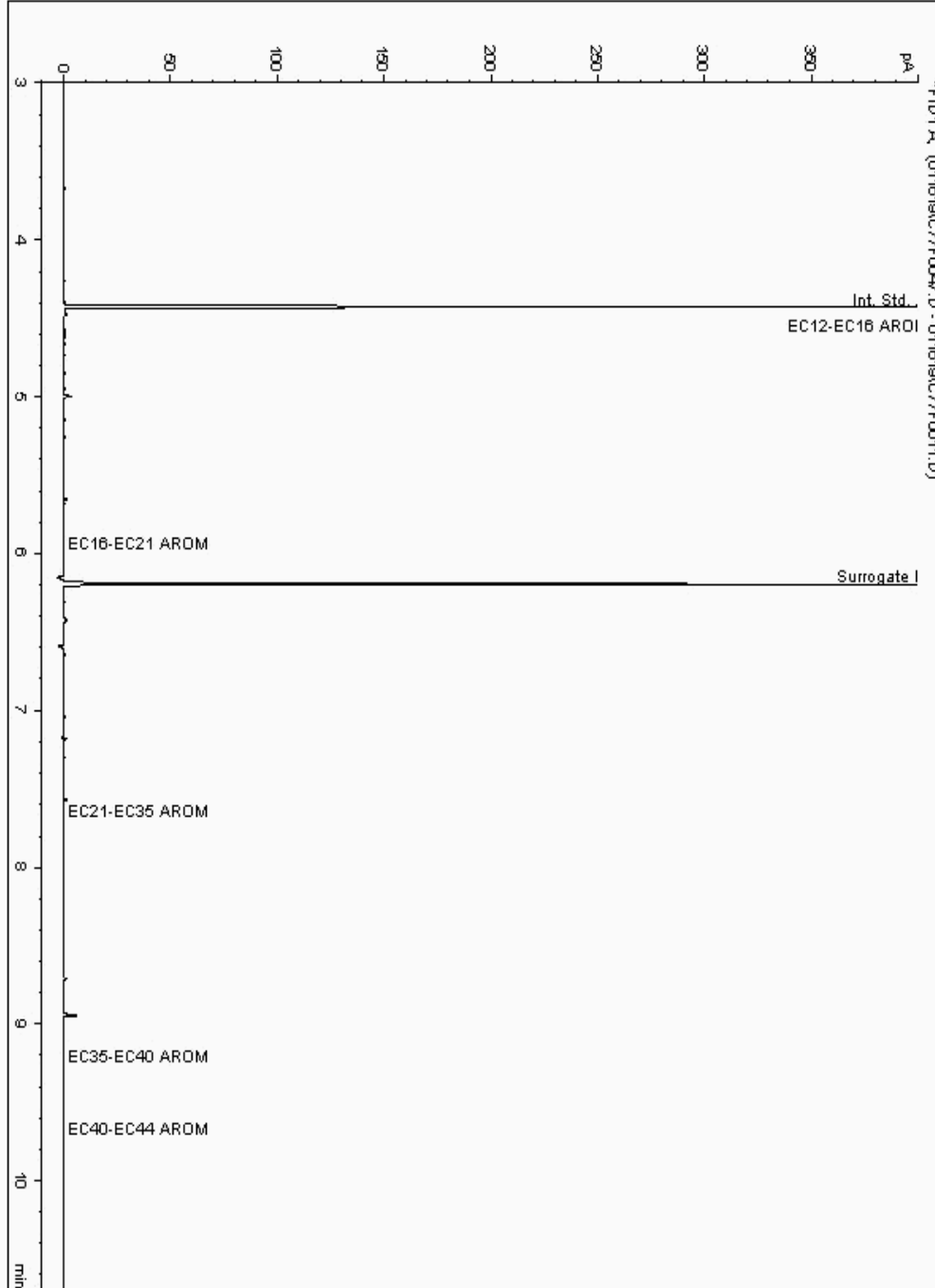
Analysis: EPH CWG (Aromatic) GC (S)
19110245

Sample No :
Sample ID : BH224

19,110,245 Depth : 9.00 - 11.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17947811-
Date Acquired : 17/01/2019 01:47:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

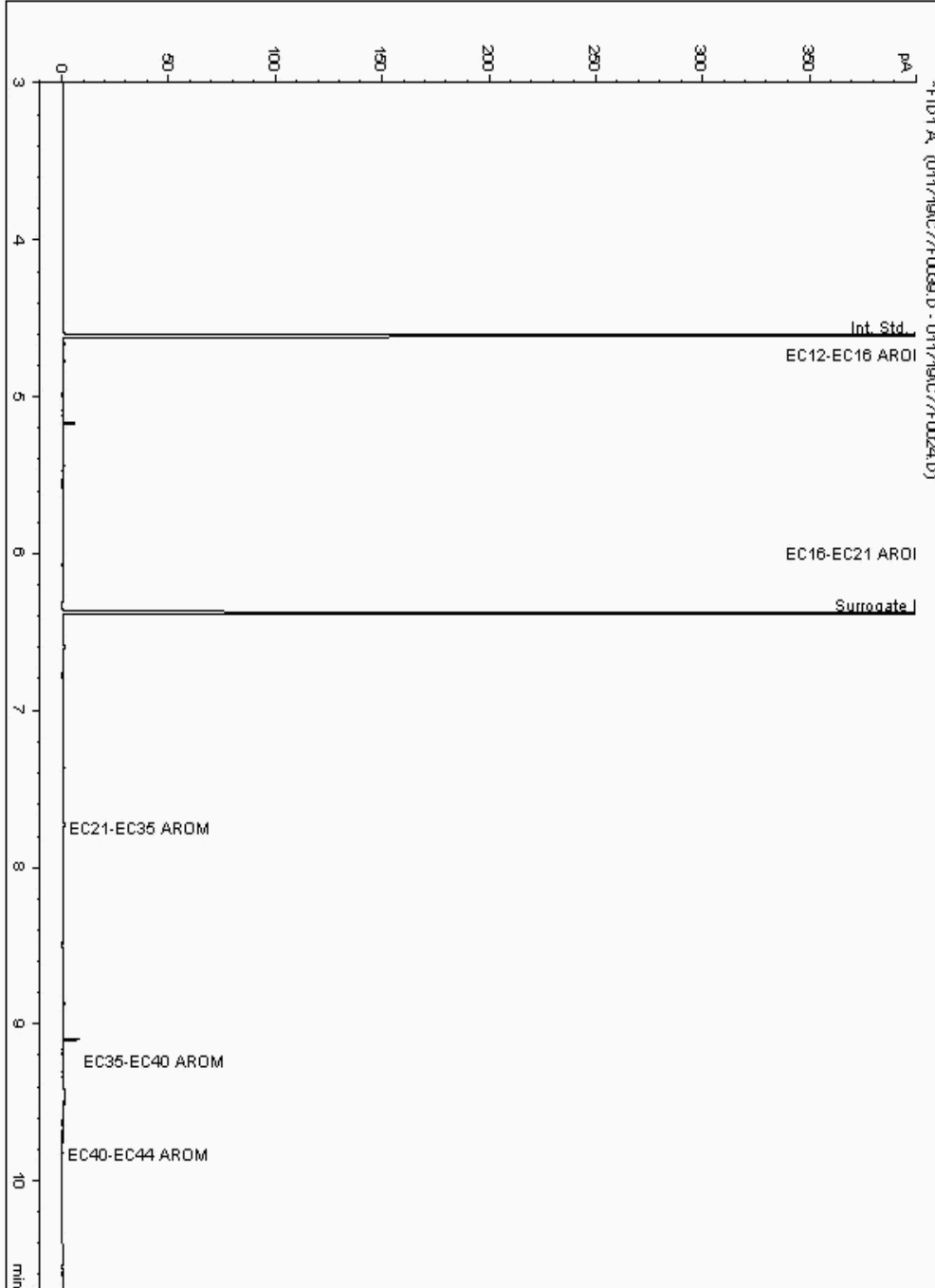
Analysis: EPH CWG (Aromatic) GC (S)
19110302

Sample No :
Sample ID : BH219

19,110,302Depth : 10.50 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946779-
Date Acquired : 1/17/2019 6:49:41 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

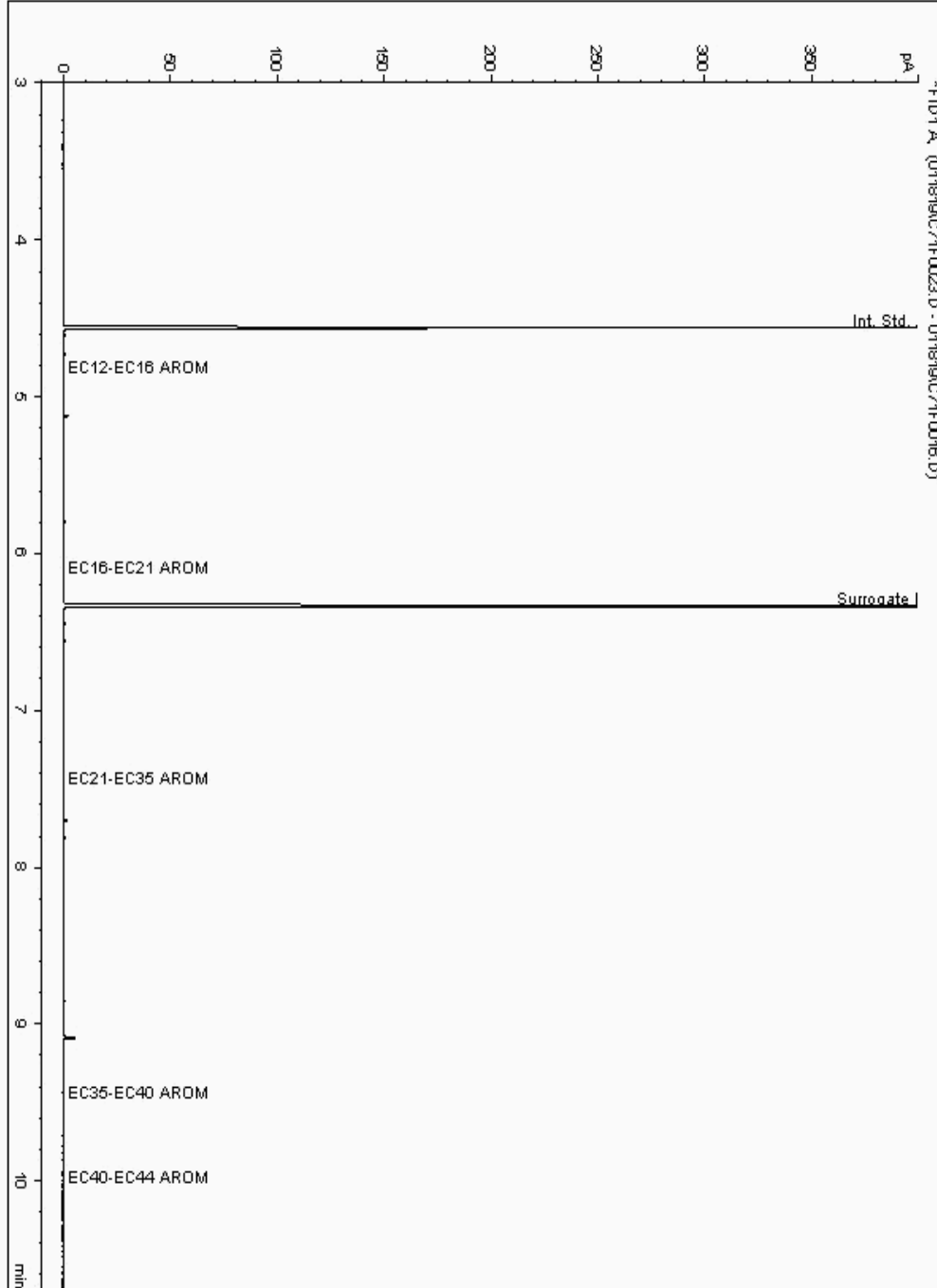
Analysis: EPH CWG (Aromatic) GC (S)
19110321

Sample No :
Sample ID : BH222

19,110,321 Depth : 7.00 - 9.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947174-
Date Acquired : 18/01/2019 15:03:28 PM
Units : ppb
Dilution: BH222[7.00 - 9.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

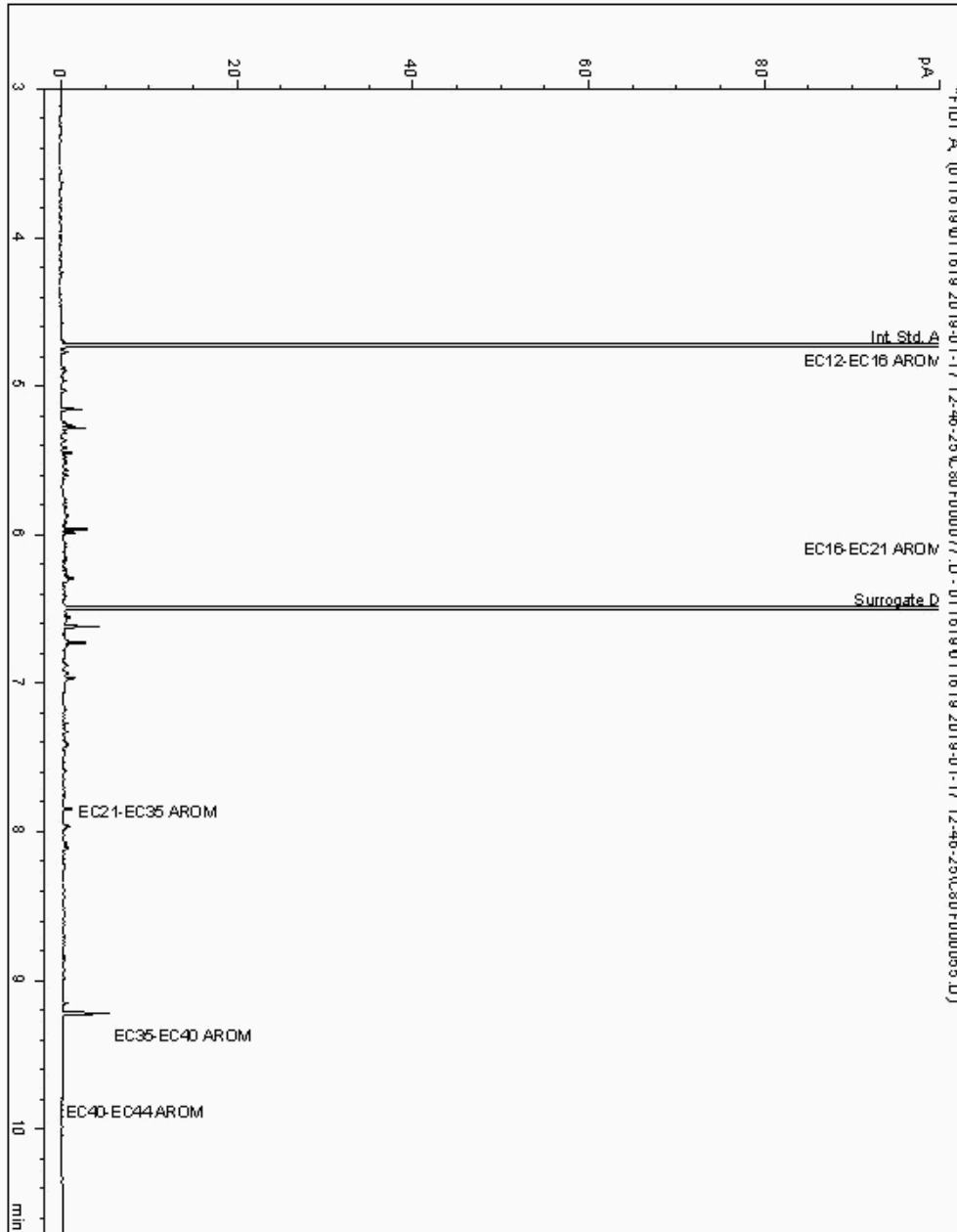
Analysis: EPH CWG (Aromatic) GC (S)
19110391

Sample No :
Sample ID : BH223

19,110,391 Depth : 5.00 - 6.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17946664-
Date Acquired : 17/01/19 20:05:39
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

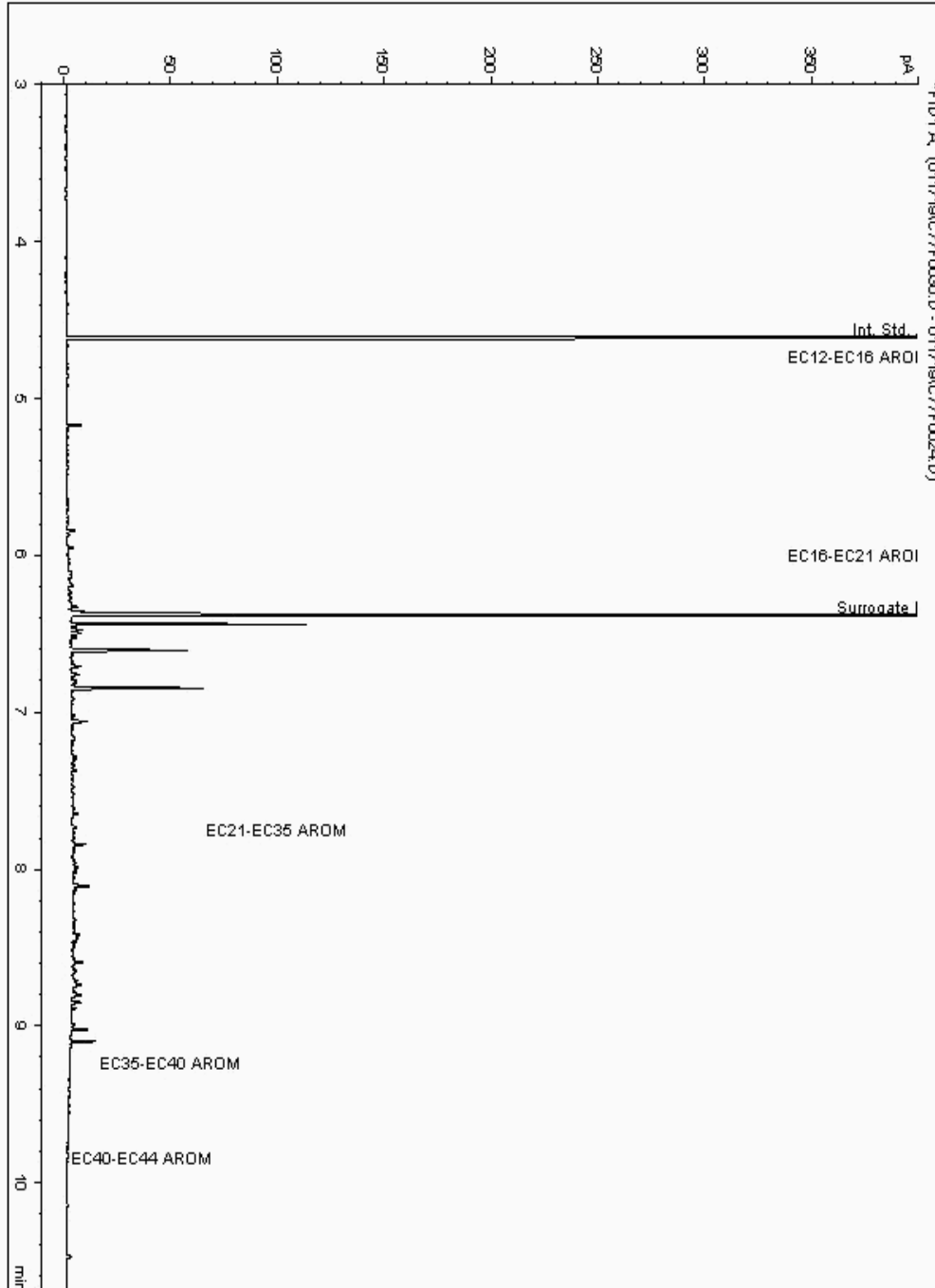
Analysis: EPH CWG (Aromatic) GC (S)
19110397

Sample No :
Sample ID : BH219

19,110,397Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946903-
Date Acquired : 1/17/2019 4:14:35 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

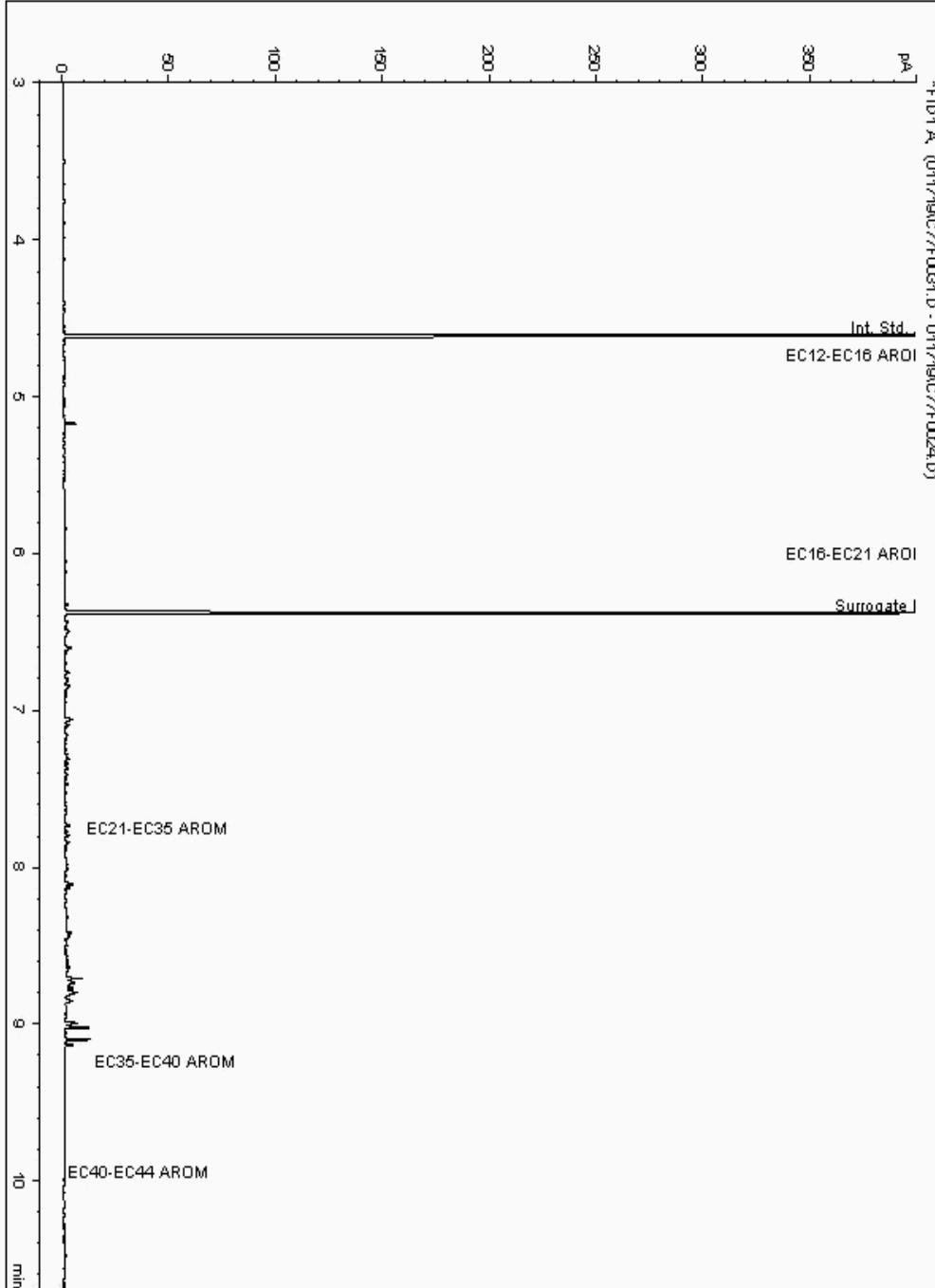
Analysis: EPH CWG (Aromatic) GC (S)
19110433

Sample No :
Sample ID : BH222

19,110,433Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947305-
Date Acquired : 1/17/2019 4:34:38 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

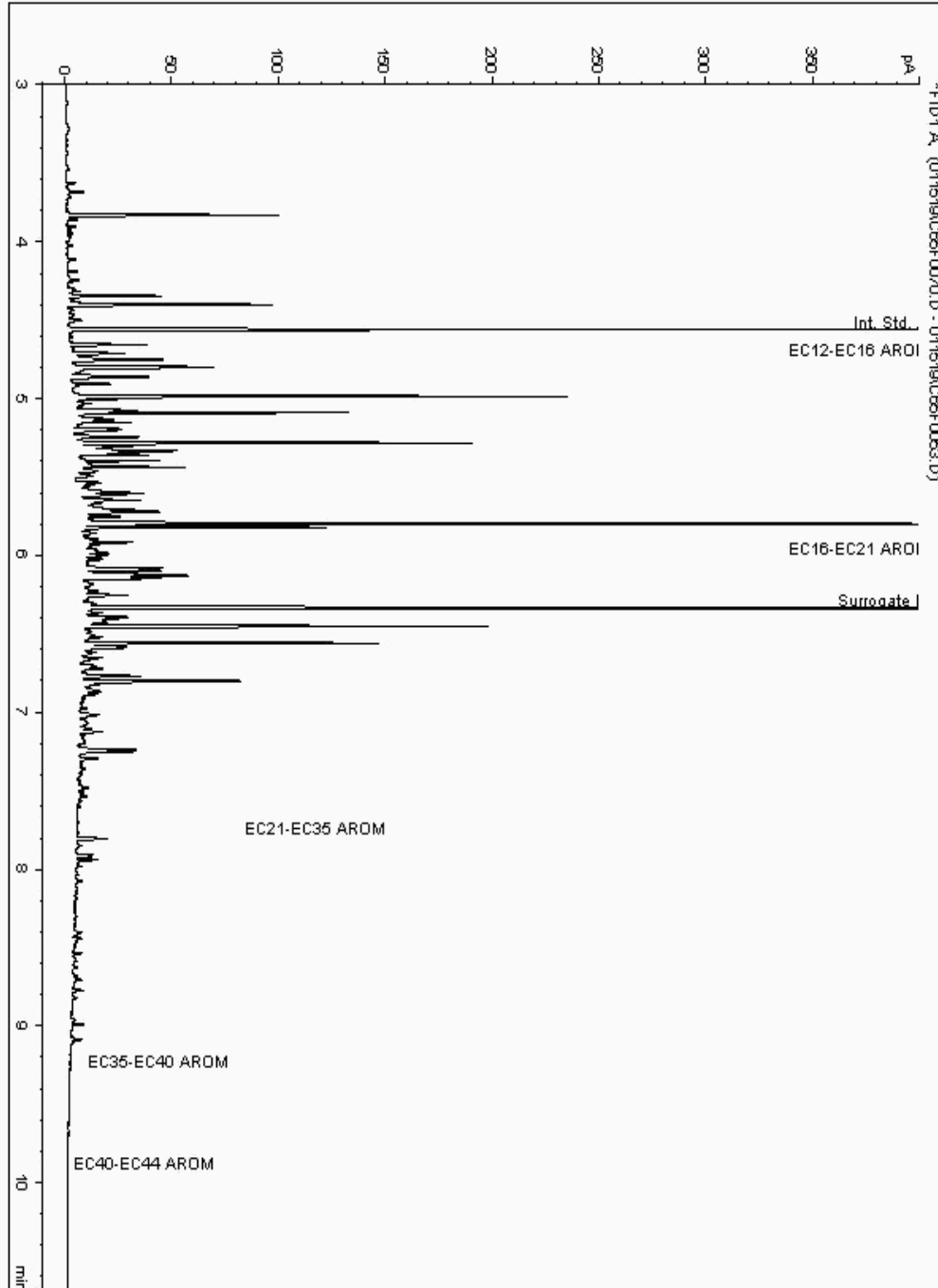
Analysis: EPH CWG (Aromatic) GC (S)
19110437

Sample No :
Sample ID : BH224

19,110,437Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947857-
Date Acquired : 17/01/2019 16:14:36 PM
Units : ppb
Dilution: BH224[5.00 - 6.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

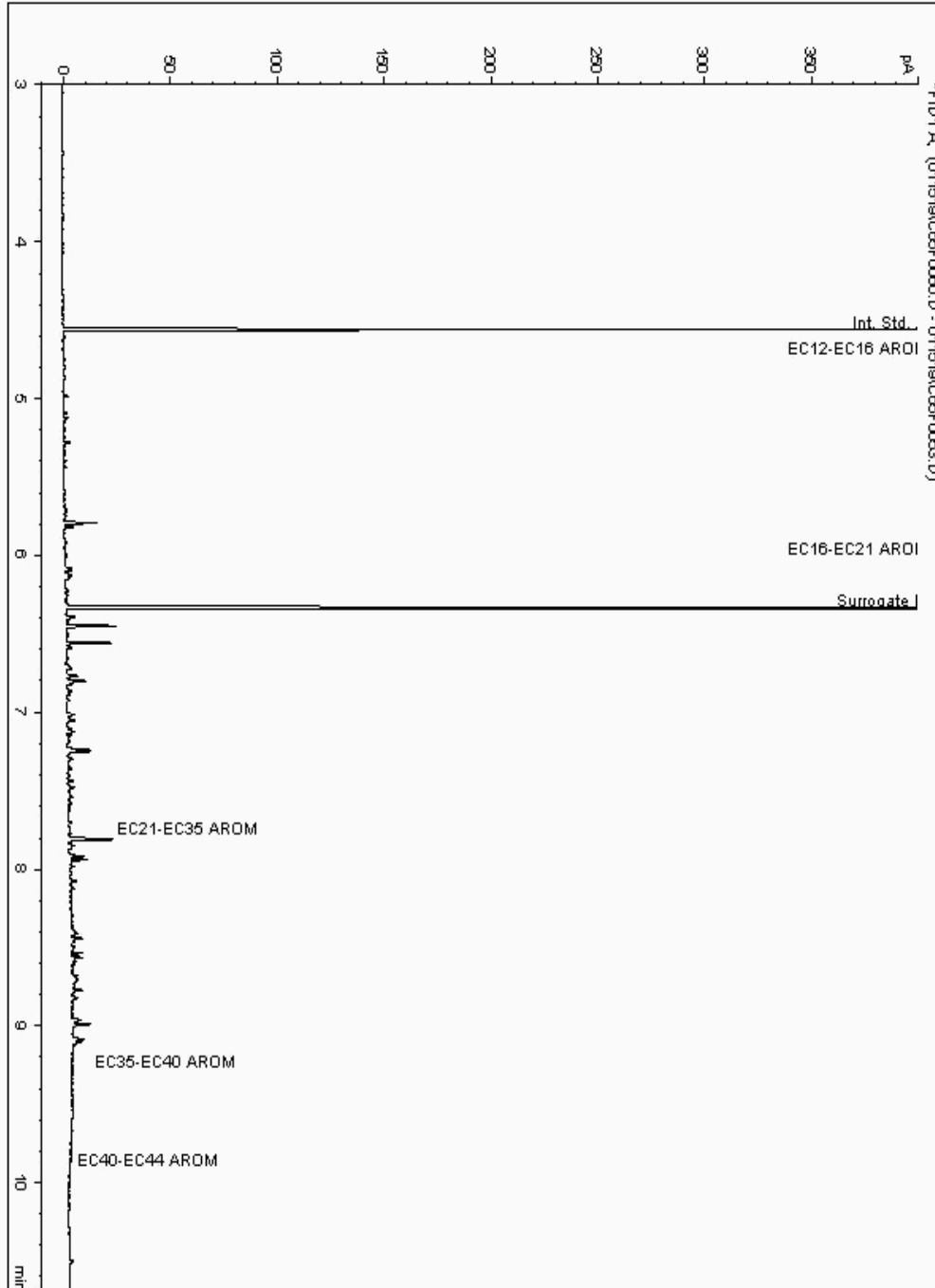
Analysis: EPH CWG (Aromatic) GC (S)
19110463

Sample No :
Sample ID : BH235

19,110,463Depth :0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947694-
Date Acquired : 17/01/2019 13:15:23 PM
Units : ppb
Dilution: BH235[0.00 - 0.50] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

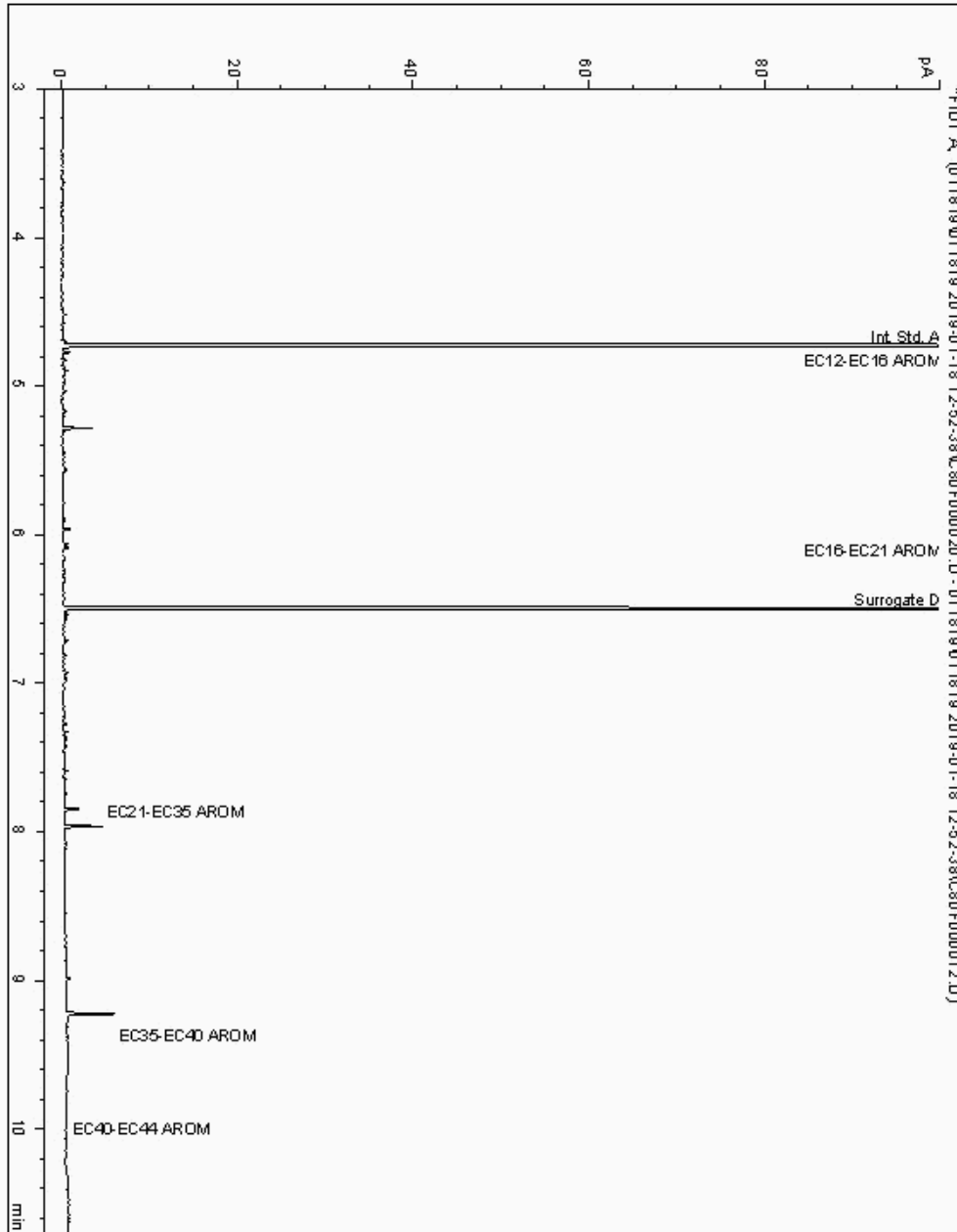
Analysis: EPH CWG (Aromatic) GC (S)
19110562

Sample No :
Sample ID : BH223

19,110,562Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17946526-
Date Acquired : 18/01/19 18:57:34
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

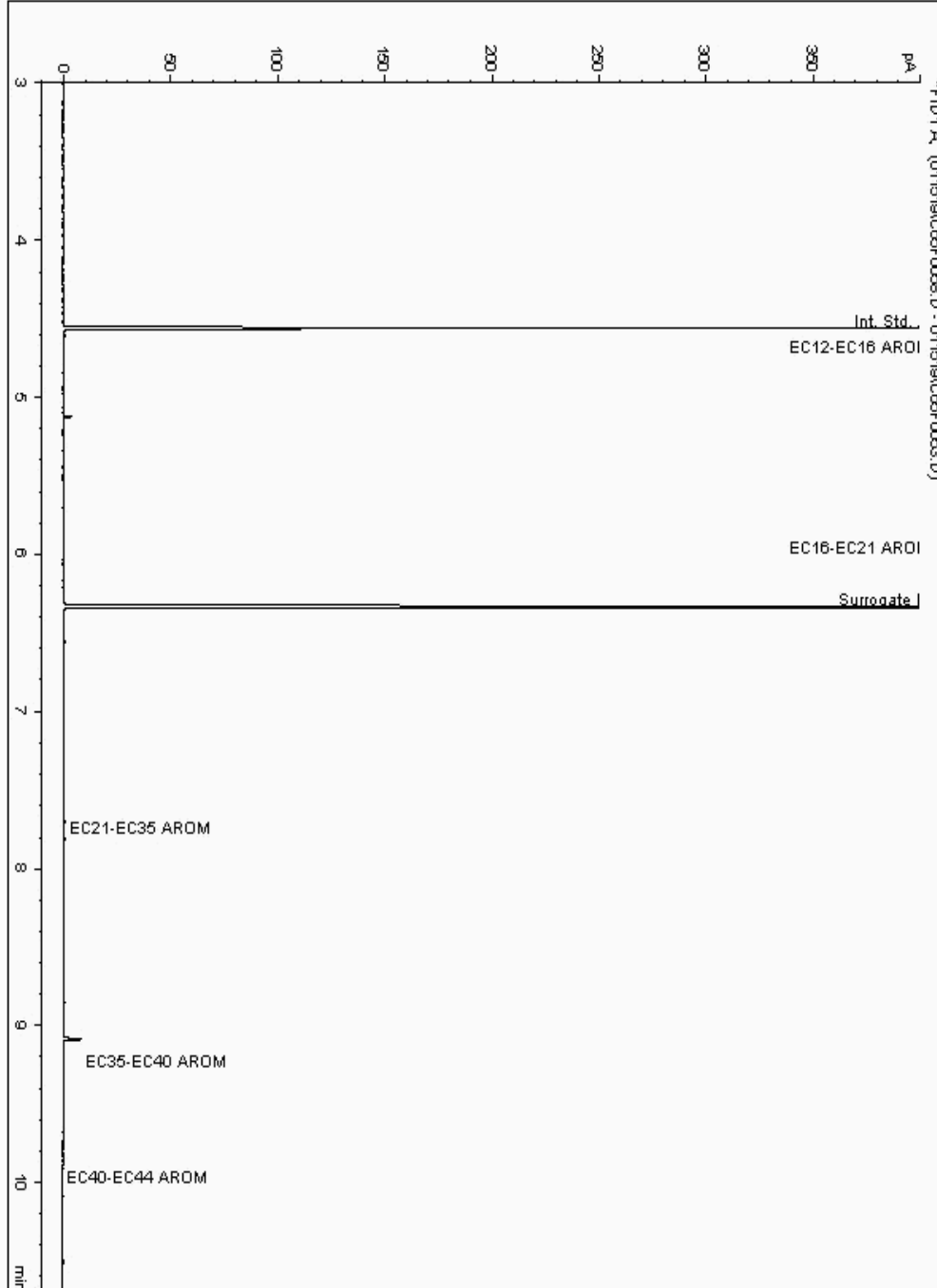
Analysis: EPH CWG (Aromatic) GC (S)
19110583

Sample No :
Sample ID : BH235

19,110,583Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947541-
Date Acquired : 17/01/2019 12:34:35 PM
Units : ppb
Dilution: BH235[7.00 - 8.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

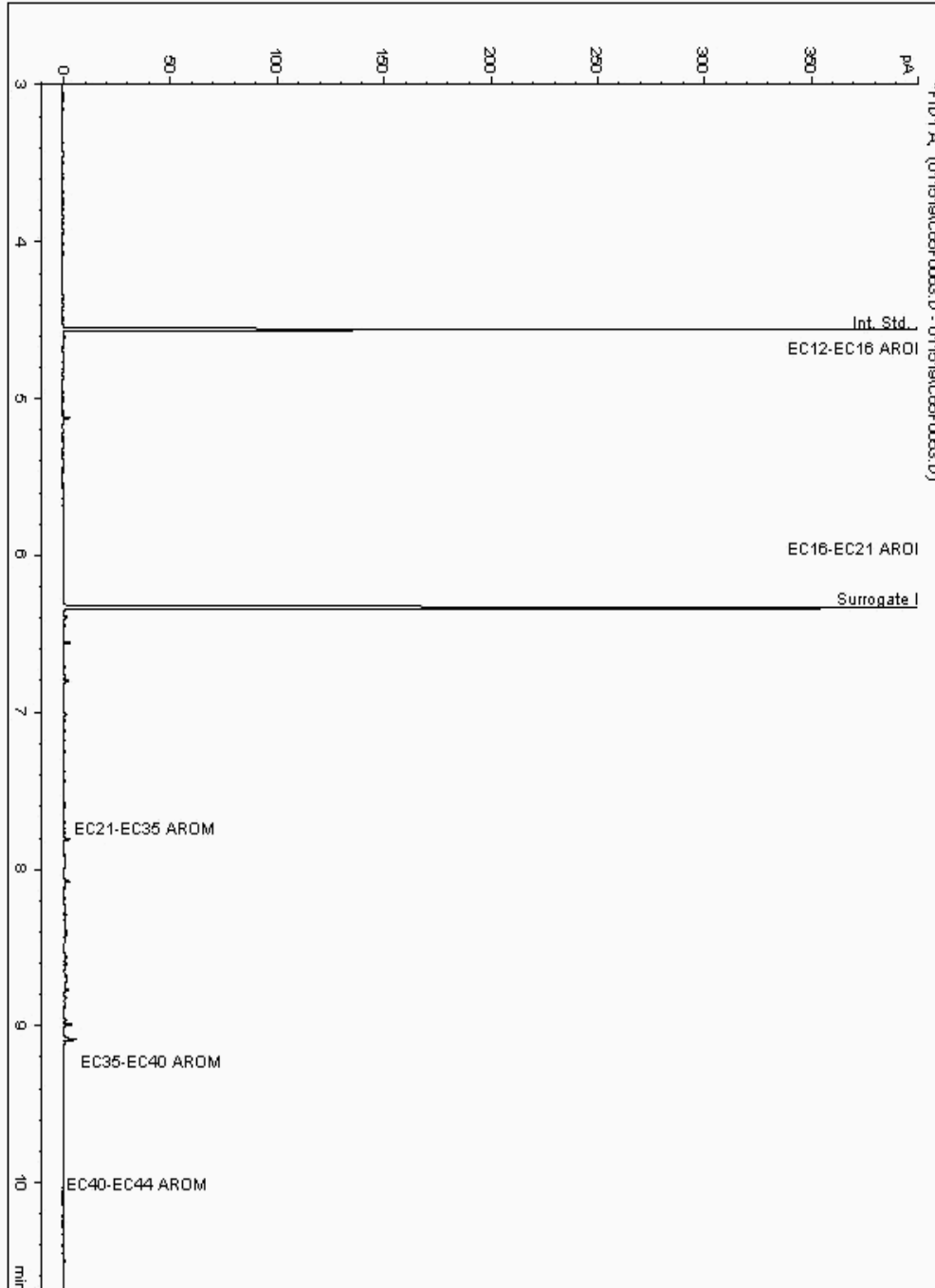
Analysis: EPH CWG (Aromatic) GC (S)
19110596

Sample No :
Sample ID : BH218

19,110,596Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17948160-
Date Acquired : 17/01/2019 13:59:18 PM
Units : ppb
Dilution: BH218[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

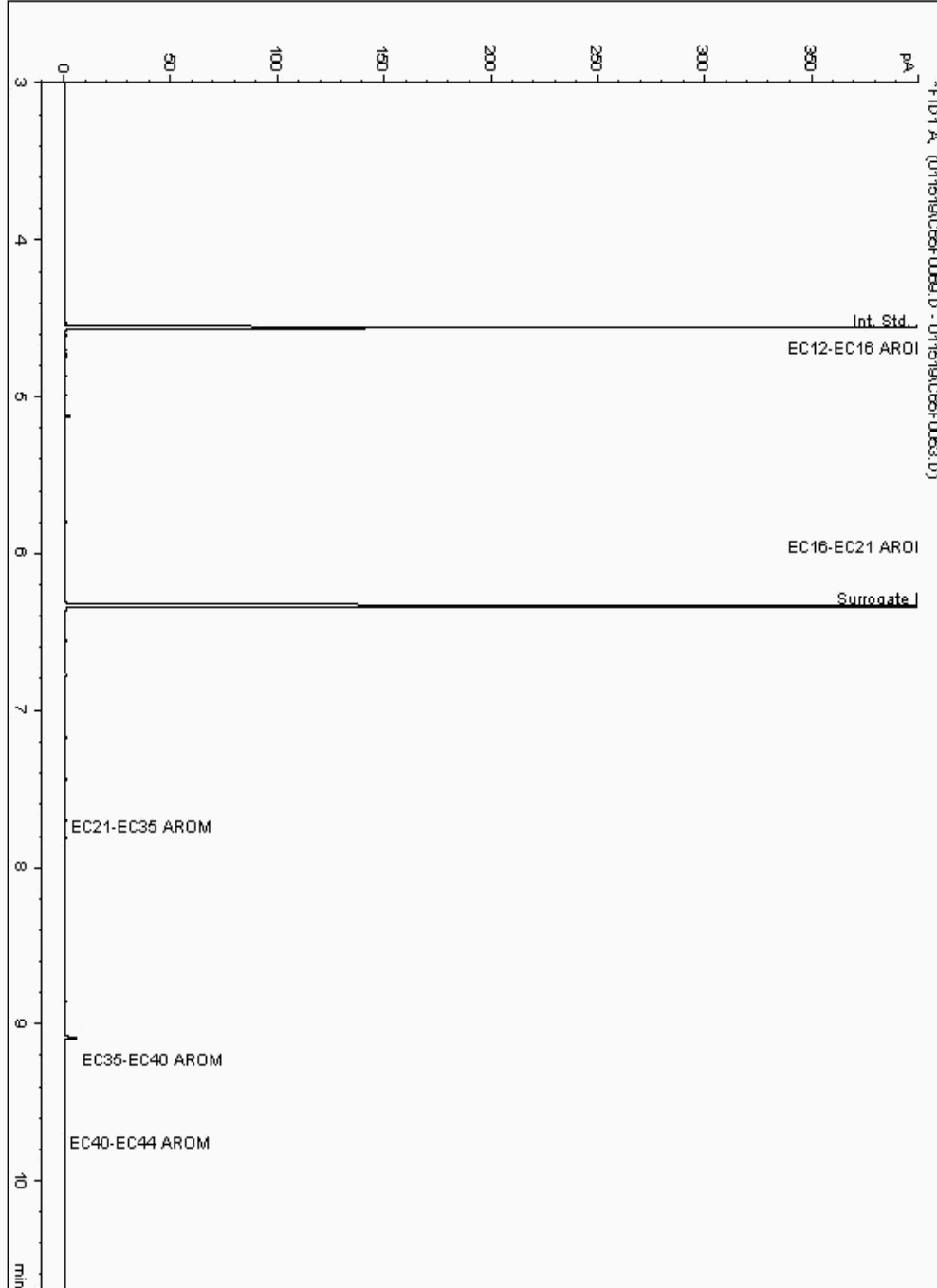
Analysis: EPH CWG (Aromatic) GC (S)
19110614

Sample No :
Sample ID : BH235

19,110,614Depth : 12.50 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947459-
Date Acquired : 17/01/2019 15:54:17 PM
Units : ppb
Dilution: BH235[12.50 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

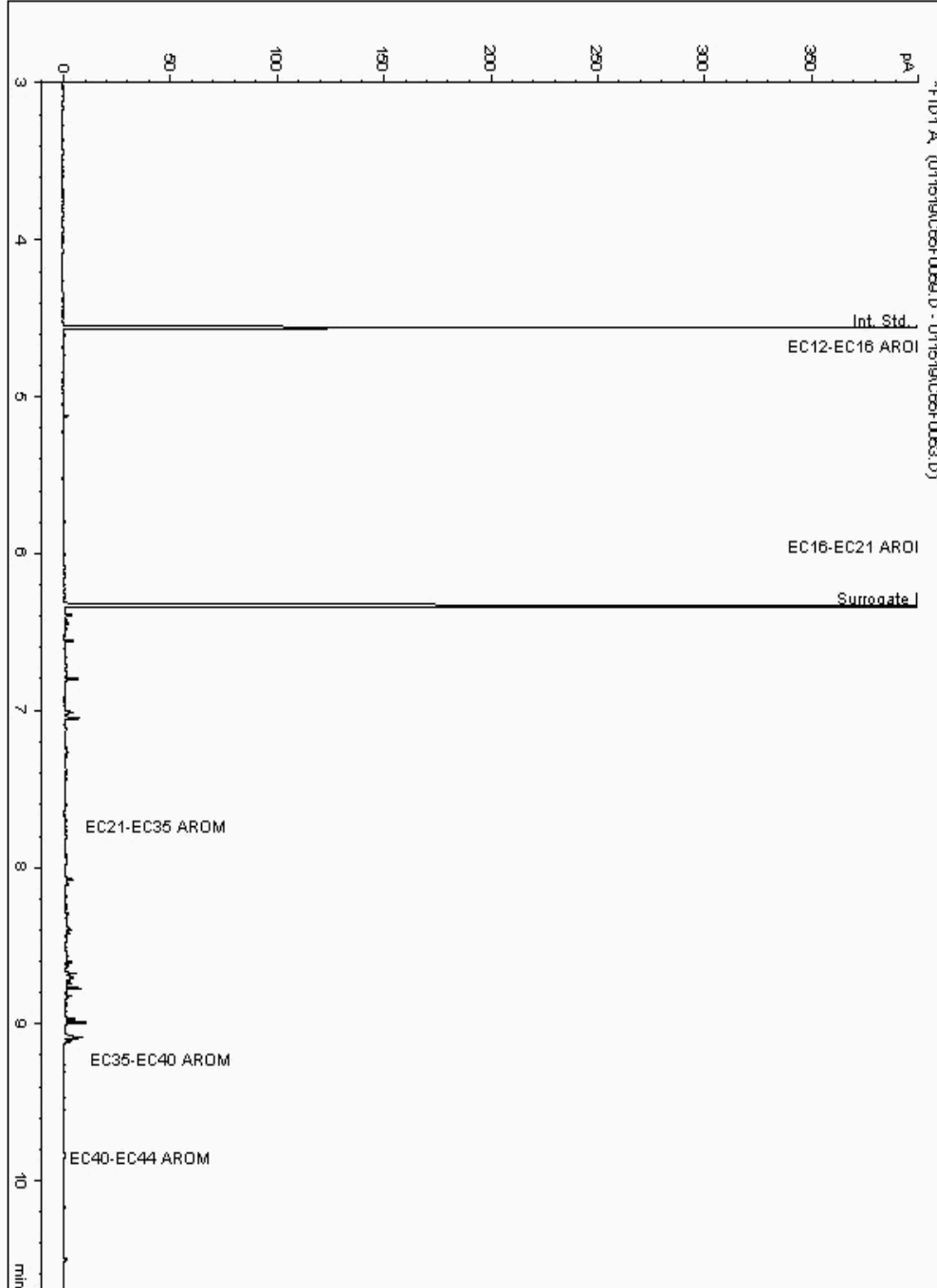
Analysis: EPH CWG (Aromatic) GC (S)
19110637

Sample No :
Sample ID : BH235

19,110,637Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947646-
Date Acquired : 17/01/2019 12:54:50 PM
Units : ppb
Dilution: BH235[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

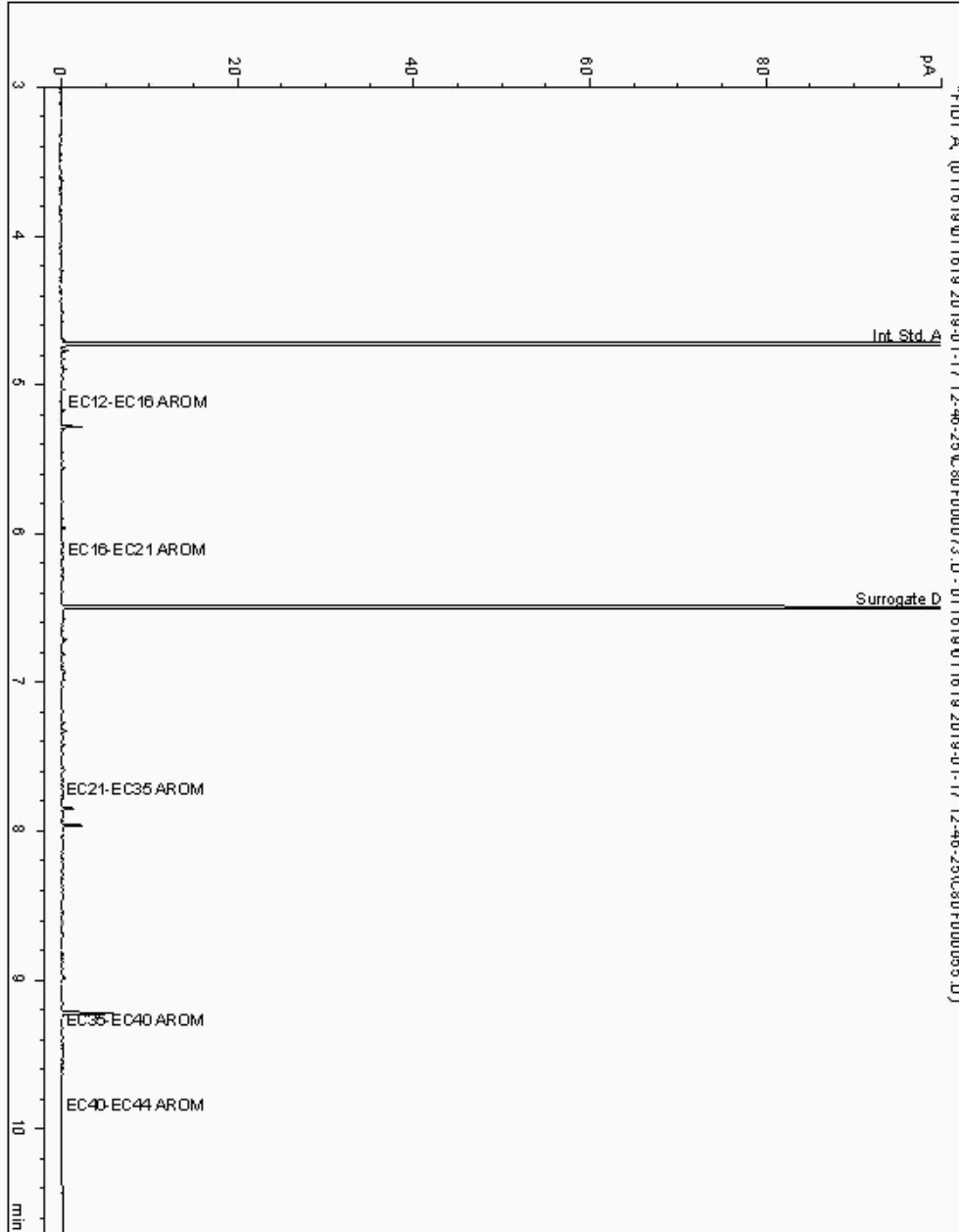
Analysis: EPH CWG (Aromatic) GC (S)
19110660

Sample No :
Sample ID : BH223

19,110,660 Depth : 15.00 - 17.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17946489-
Date Acquired : 17/01/19 18:53:12
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

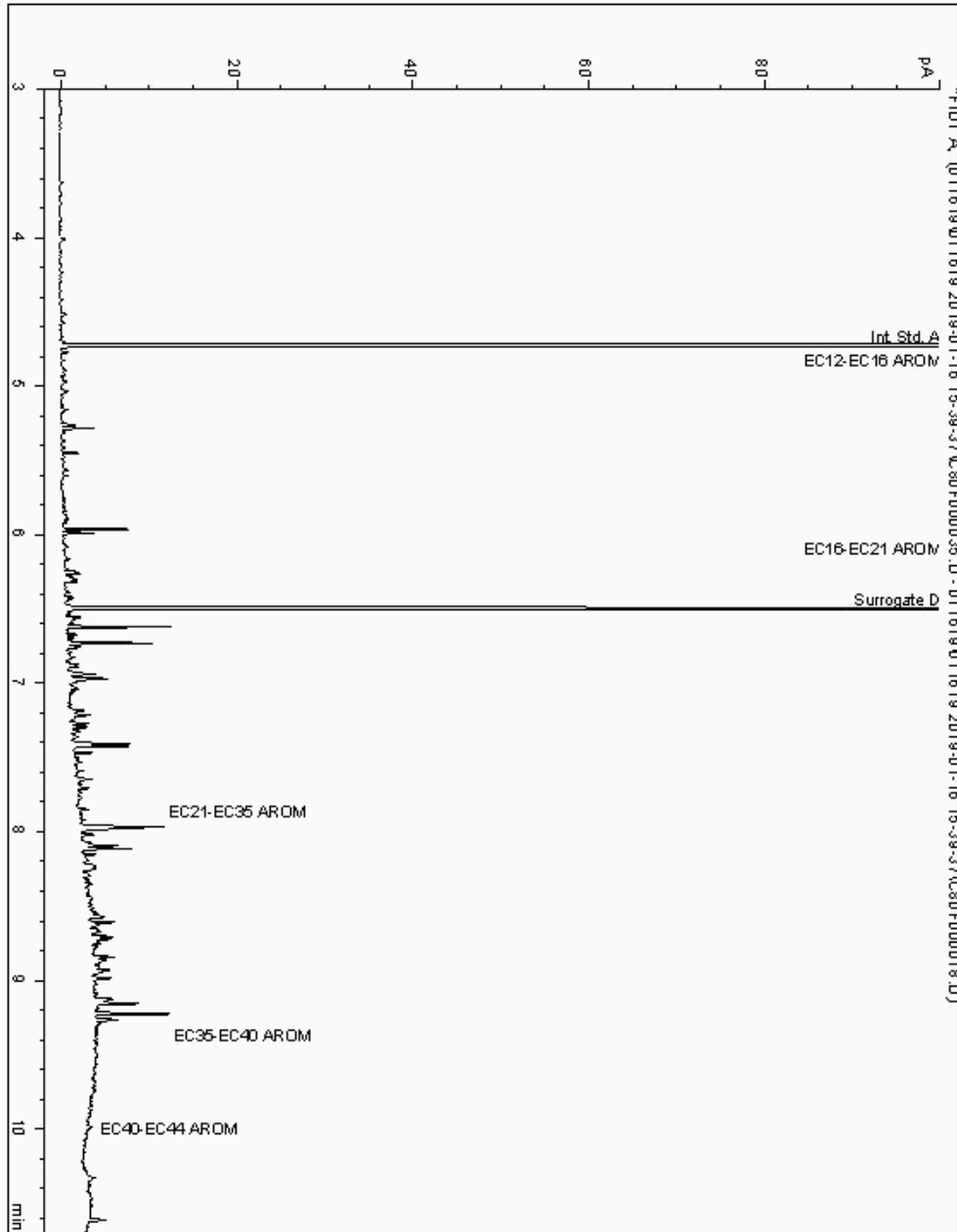
Analysis: EPH CWG (Aromatic) GC (S)
19110961

Sample No :
Sample ID : BH222

19,110,961 Depth : 0.00 - 0.50

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17947367-
Date Acquired : 17/01/19 02:46:11
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

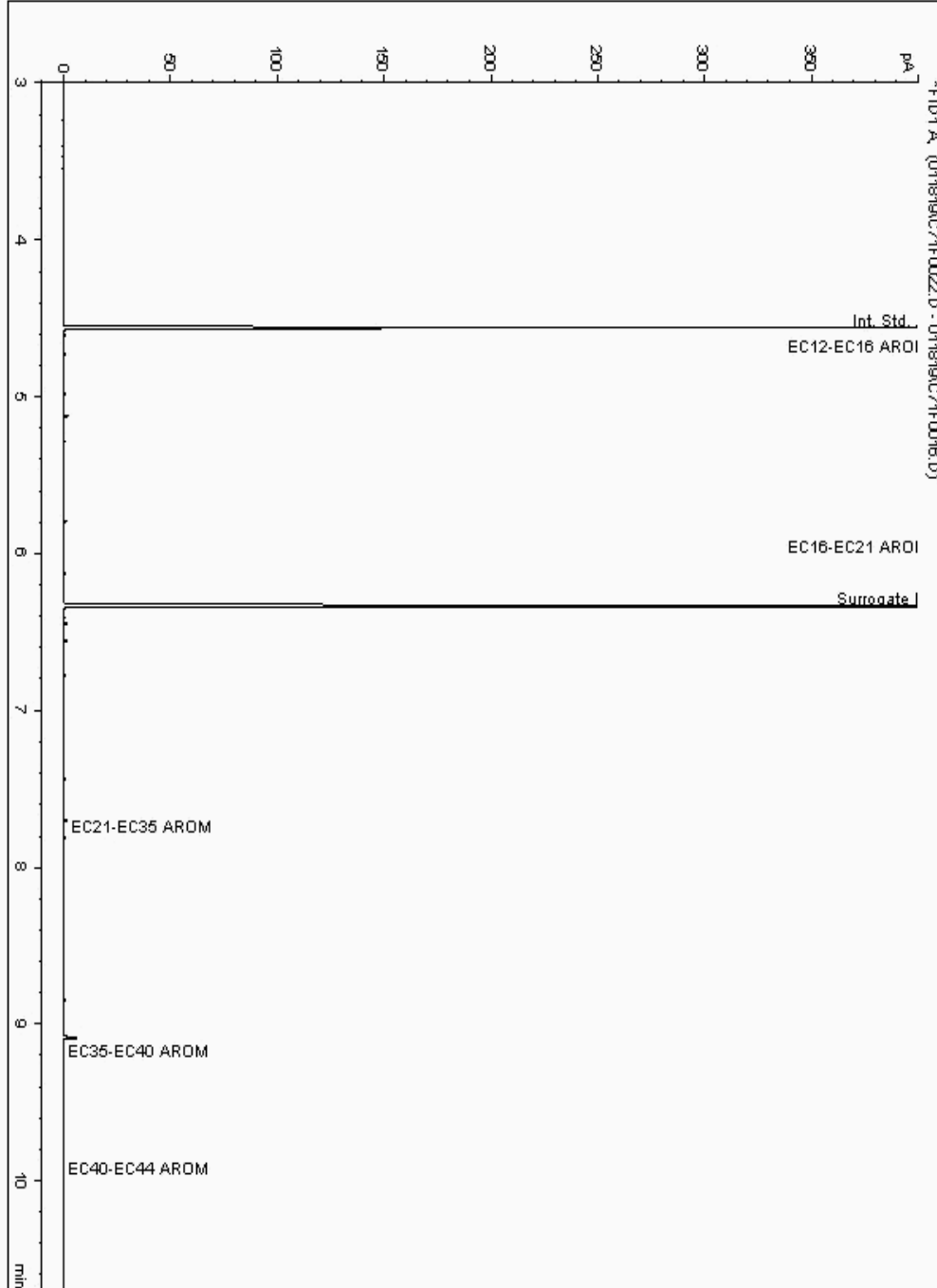
Analysis: EPH CWG (Aromatic) GC (S)
19111010

Sample No :
Sample ID : BH223

19,111,010 Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946620-
Date Acquired : 18/01/2019 14:43:03 PM
Units : ppb
Dilution: BH223[7.00 - 8.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

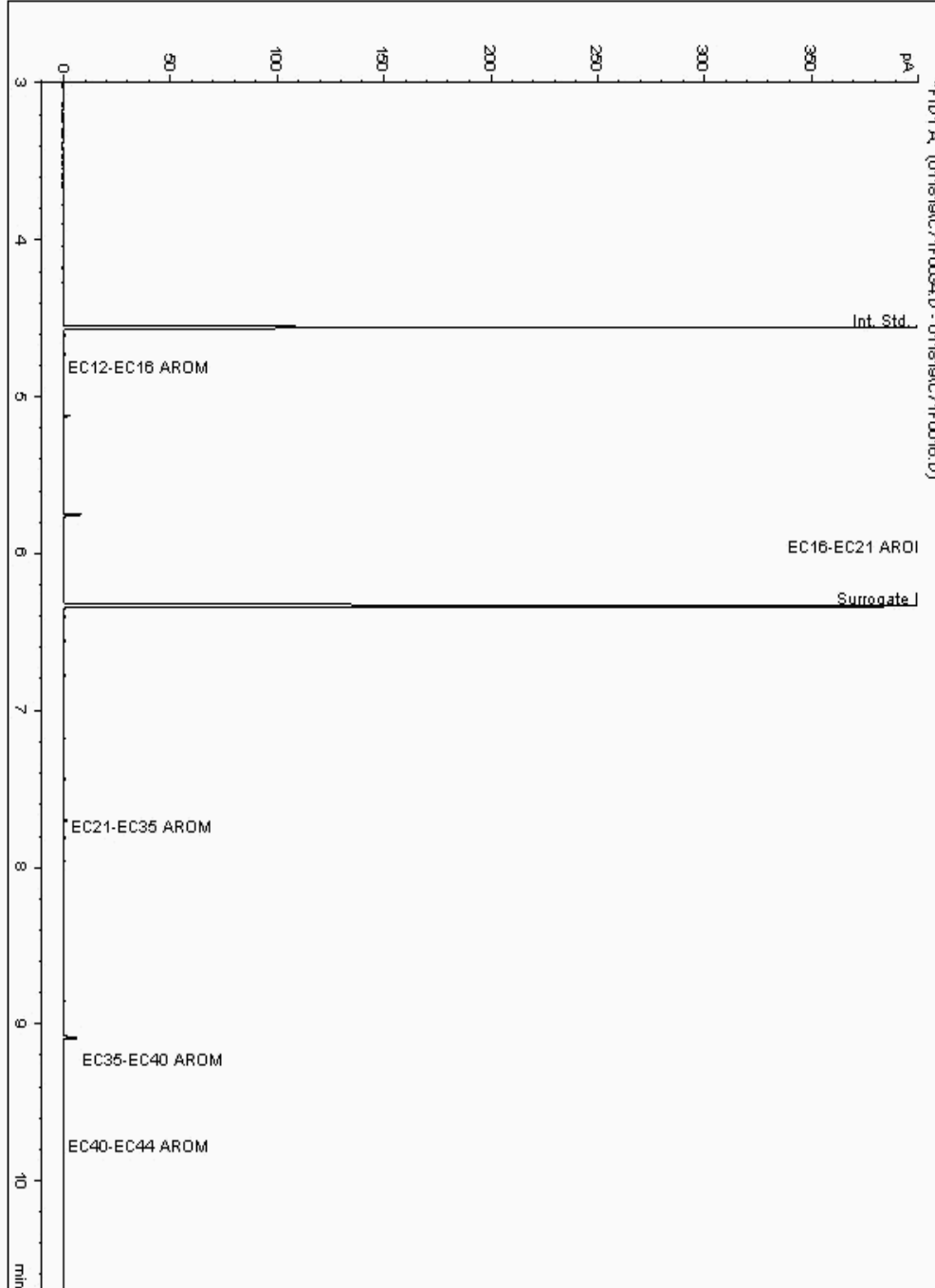
Analysis: EPH CWG (Aromatic) GC (S)
19111220

Sample No :
Sample ID : BH219

19,111,220Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946994-
Date Acquired : 18/01/2019 19:16:38 PM
Units : ppb
Dilution: BH219[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

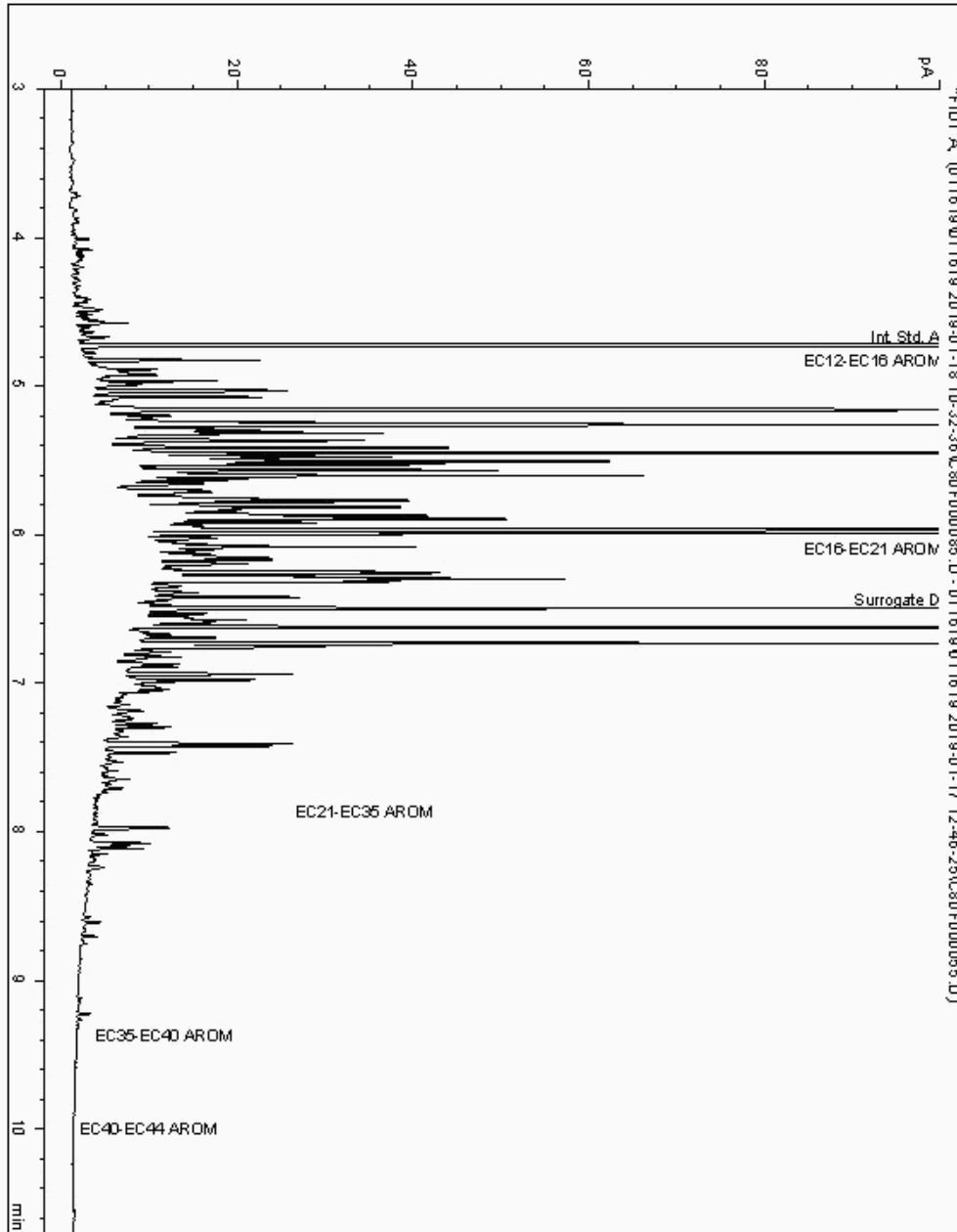
Analysis: EPH CWG (Aromatic) GC (S)
19111228

Sample No :
Sample ID : BH224

19,111,228Depth :3.00 - 4.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17947896-
Date Acquired : 18/01/19 11:00:20
Units : ppb
Dilution :
CF : 1
Multiplier : 4.950





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

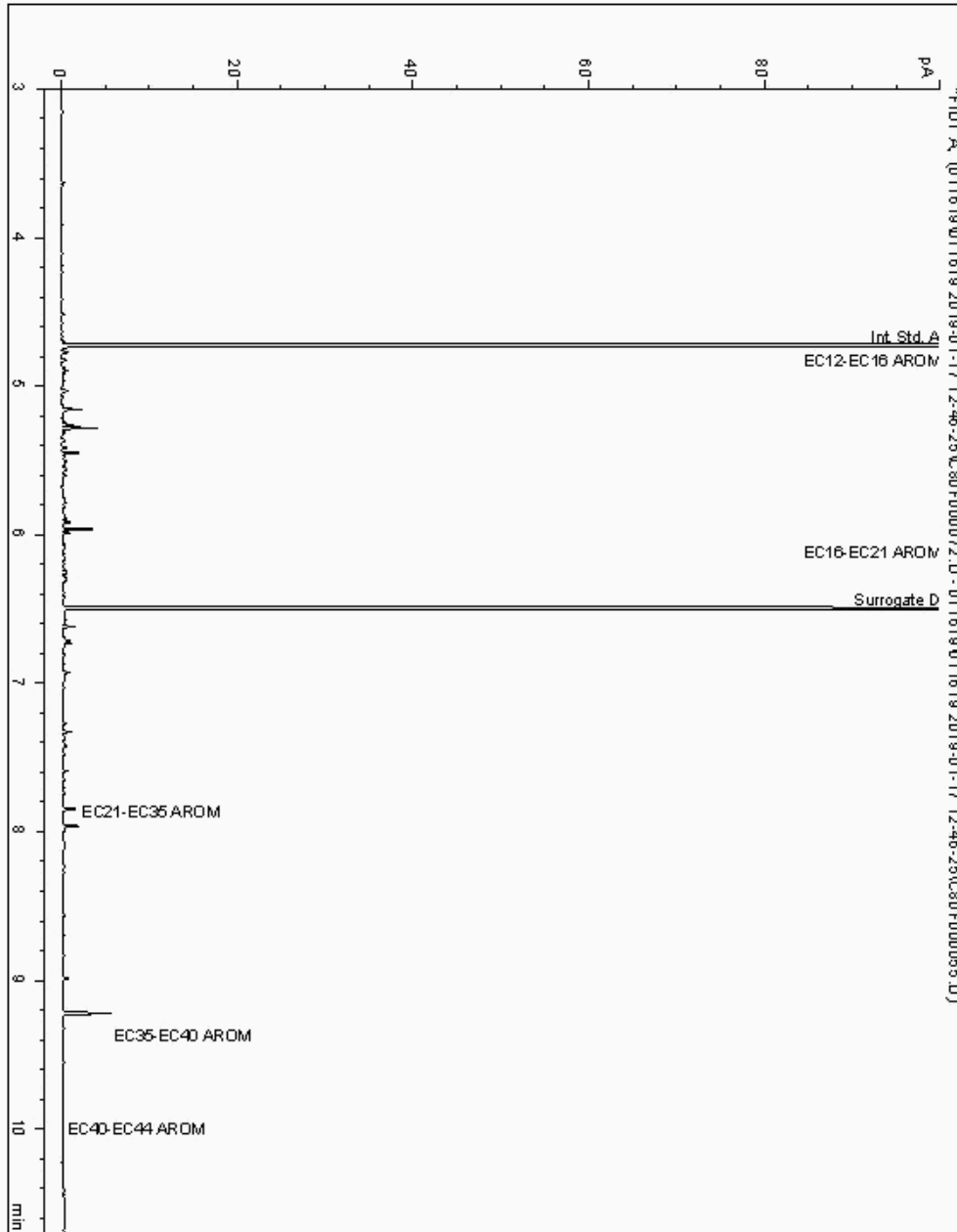
Analysis: EPH CWG (Aromatic) GC (S)
19111241

Sample No :
Sample ID : BH222

19,111,241 Depth : 13.00 - 15.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17947098-
Date Acquired : 17/01/19 18:33:02
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

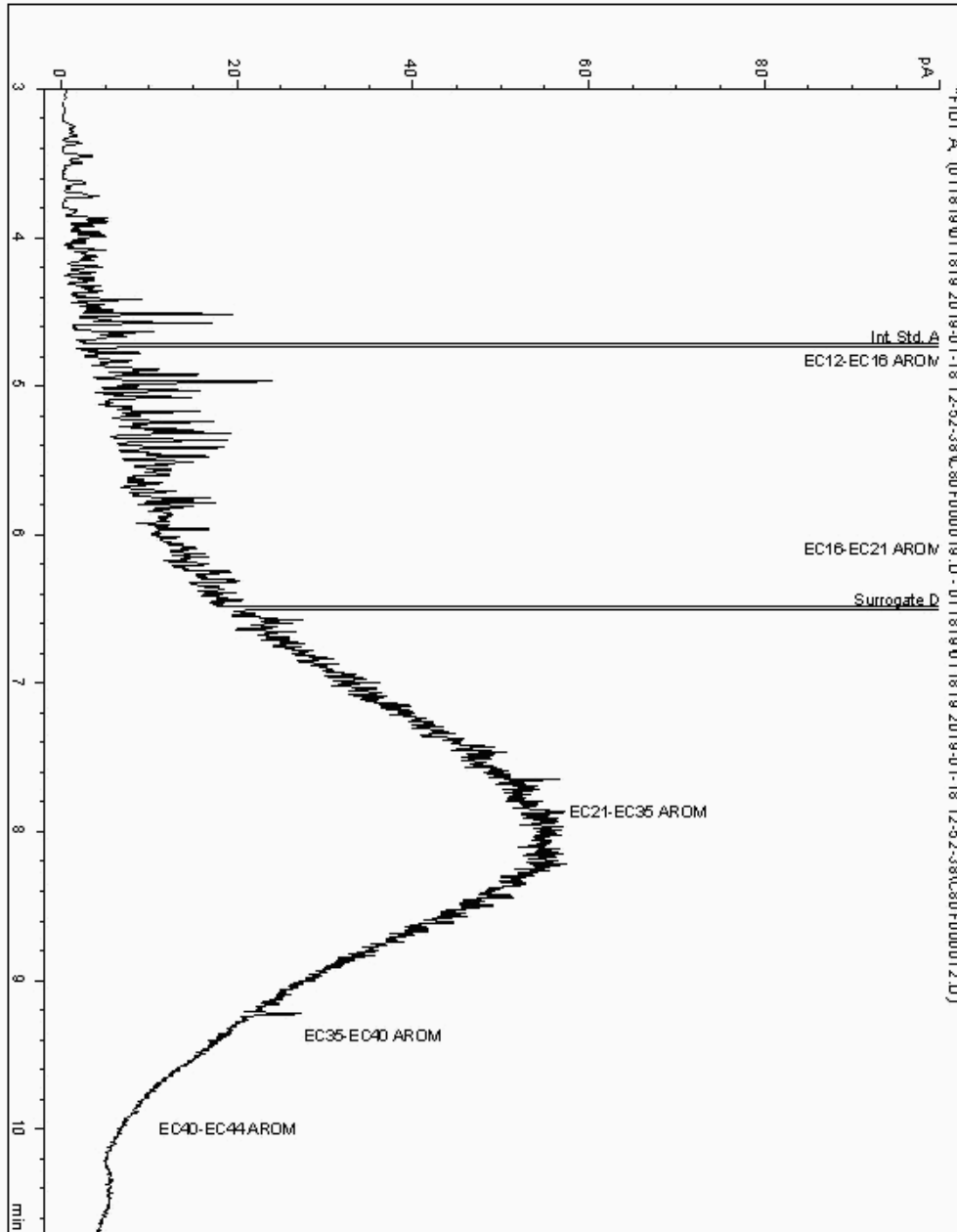
Analysis: EPH CWG (Aromatic) GC (S)
19111388

Sample No :
Sample ID : BH219

19,111,388Depth :3.00 - 4.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17946926-
Date Acquired : 18/01/19 18:37:26
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

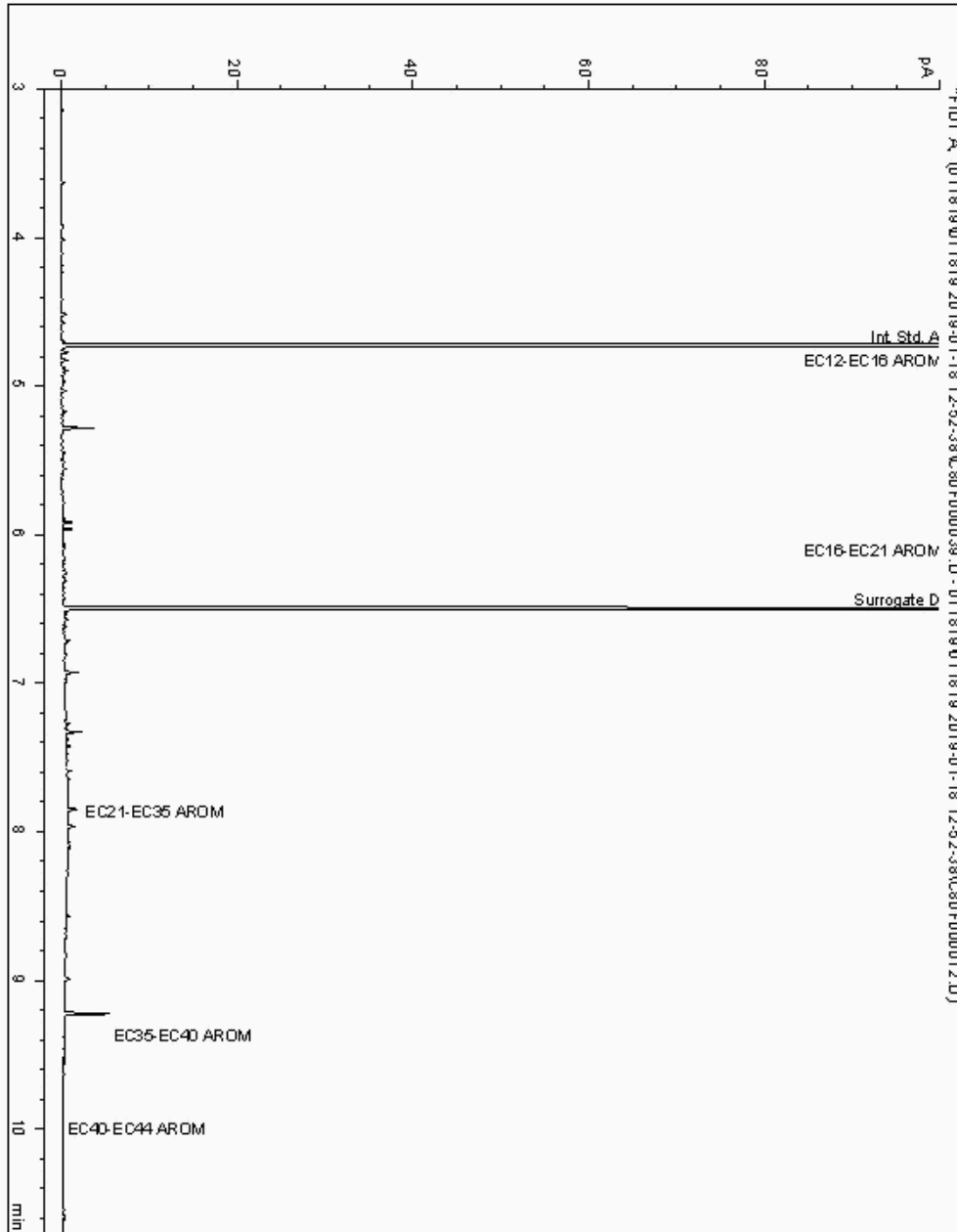
Analysis: EPH CWG (Aromatic) GC (S)
19111435

Sample No :
Sample ID : BH219

19,111,435Depth : 15.00 - 16.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17947017-
Date Acquired : 18/01/19 23:58:40
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

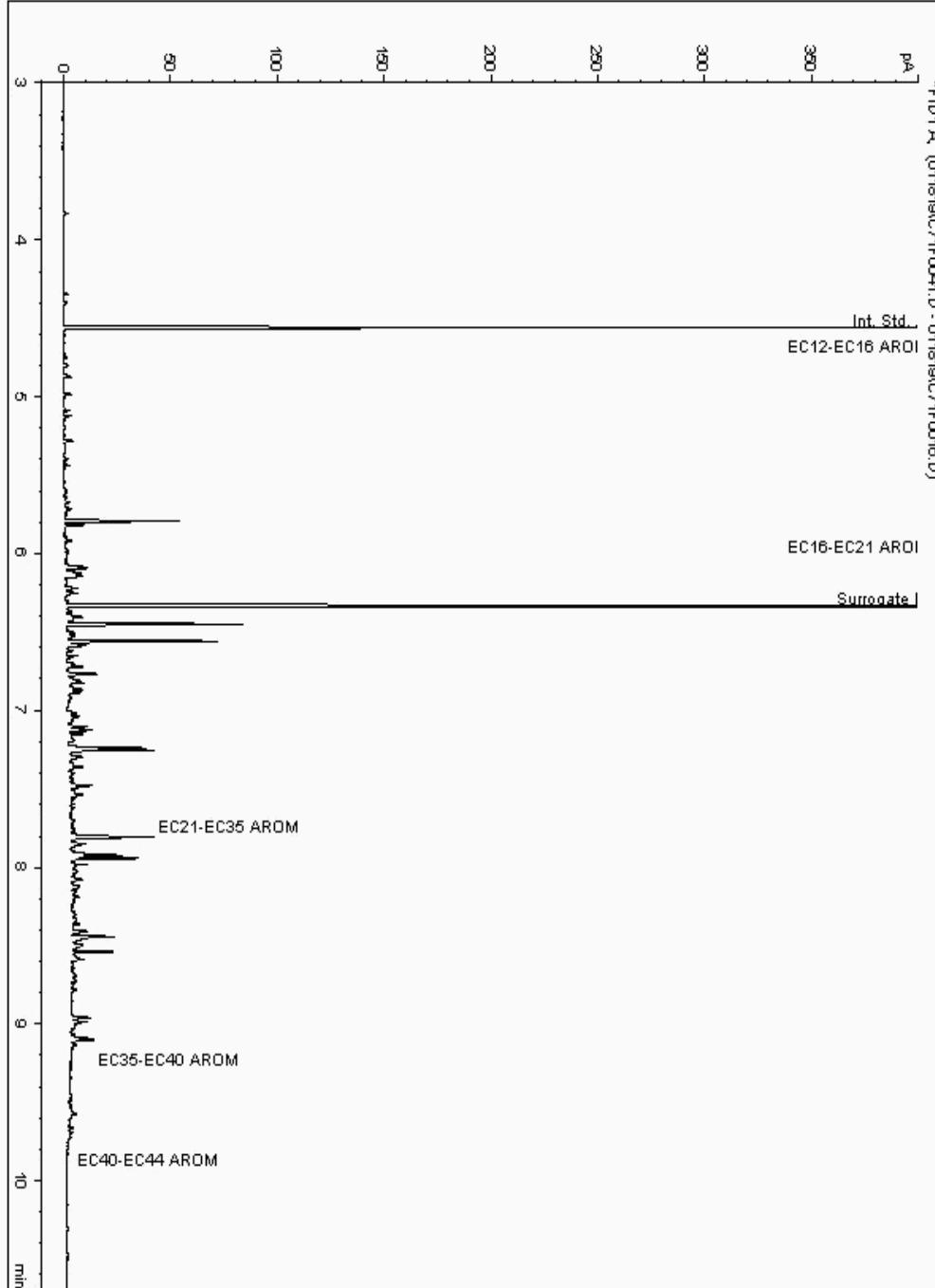
Analysis: EPH CWG (Aromatic) GC (S)
19111454

Sample No :
Sample ID : BH219

19,111,454Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946949-
Date Acquired : 18/01/2019 21:13:26 PM
Units : ppb
Dilution: BH219[0.50 - 1.00] →





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

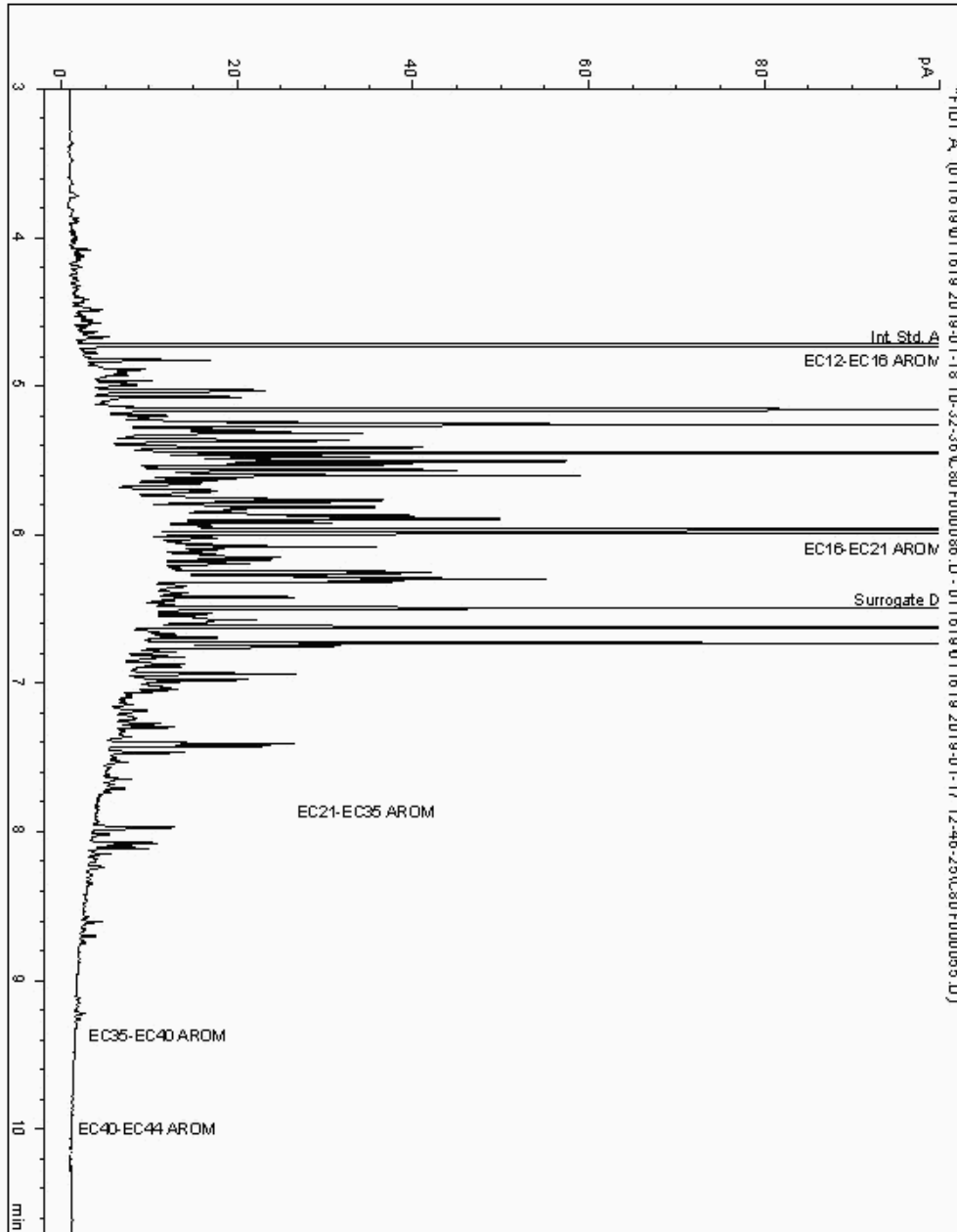
Analysis: EPH CWG (Aromatic) GC (S)
19111484

Sample No :
Sample ID : BH224

19,111,484Depth :2.00 - 3.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17947950-
Date Acquired : 18/01/19 11:20:27
Units : ppb
Dilution :
CF : 1
Multiplier : 4.850





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

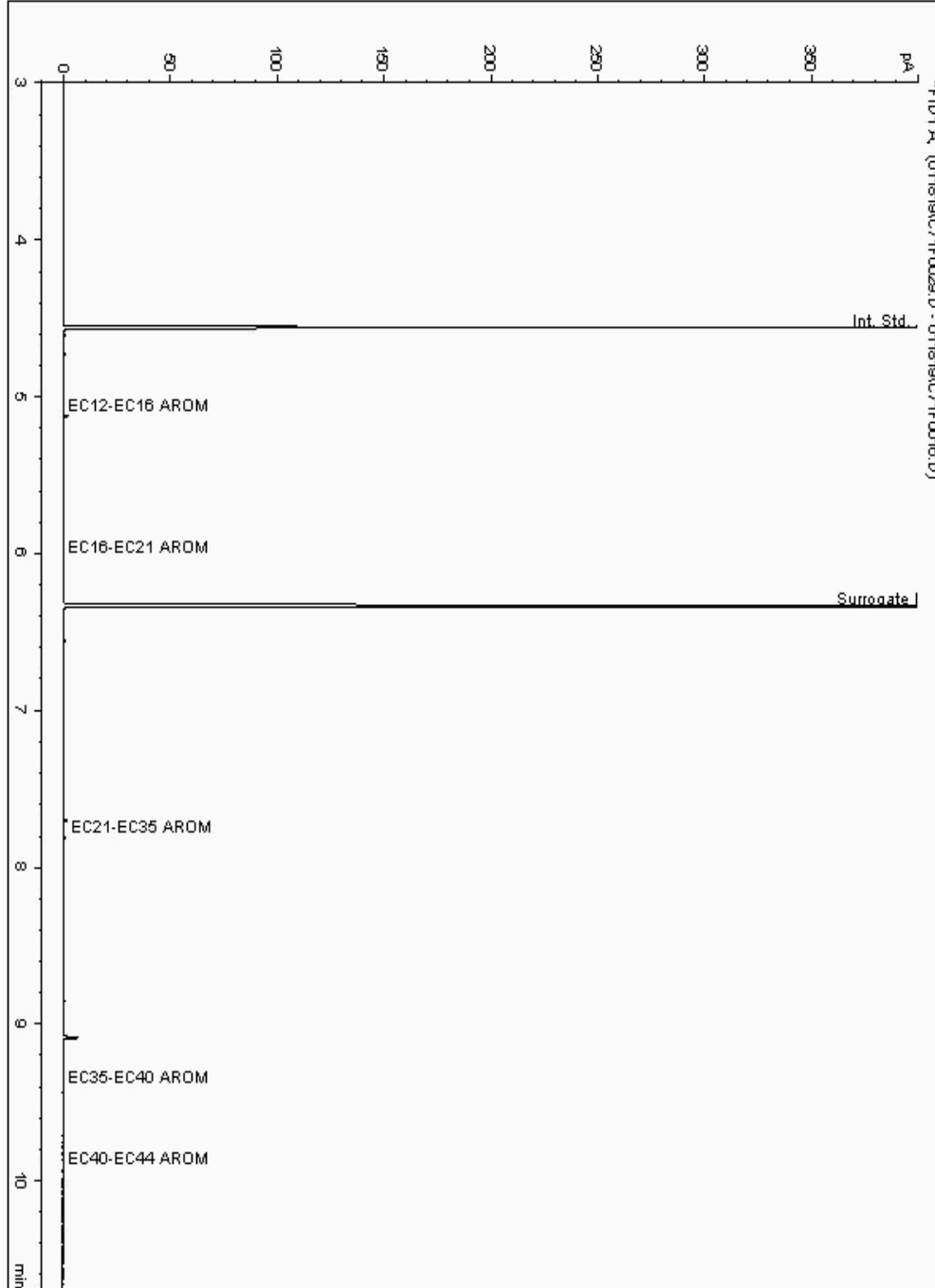
Analysis: EPH CWG (Aromatic) GC (S)
19111535

Sample No :
Sample ID : BH223

19,111,535Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17946548-
Date Acquired : 18/01/2019 17:35:31 PM
Units : ppb
Dilution: BH223[12.00 - 13.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

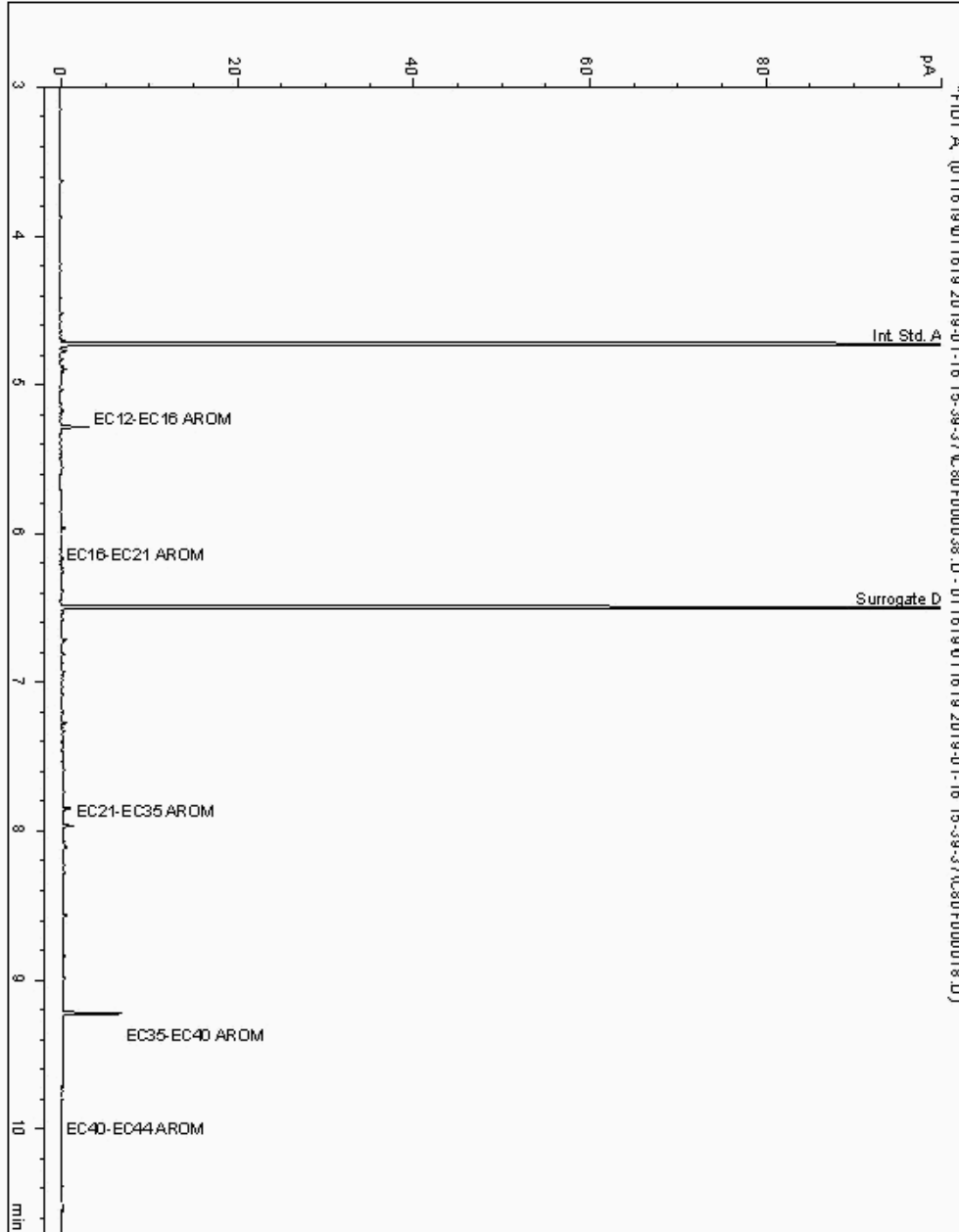
Analysis: EPH CWG (Aromatic) GC (S)
19111579

Sample No :
Sample ID : BH235

19,111,579 Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17947436-
Date Acquired : 17/01/19 03:30:07
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

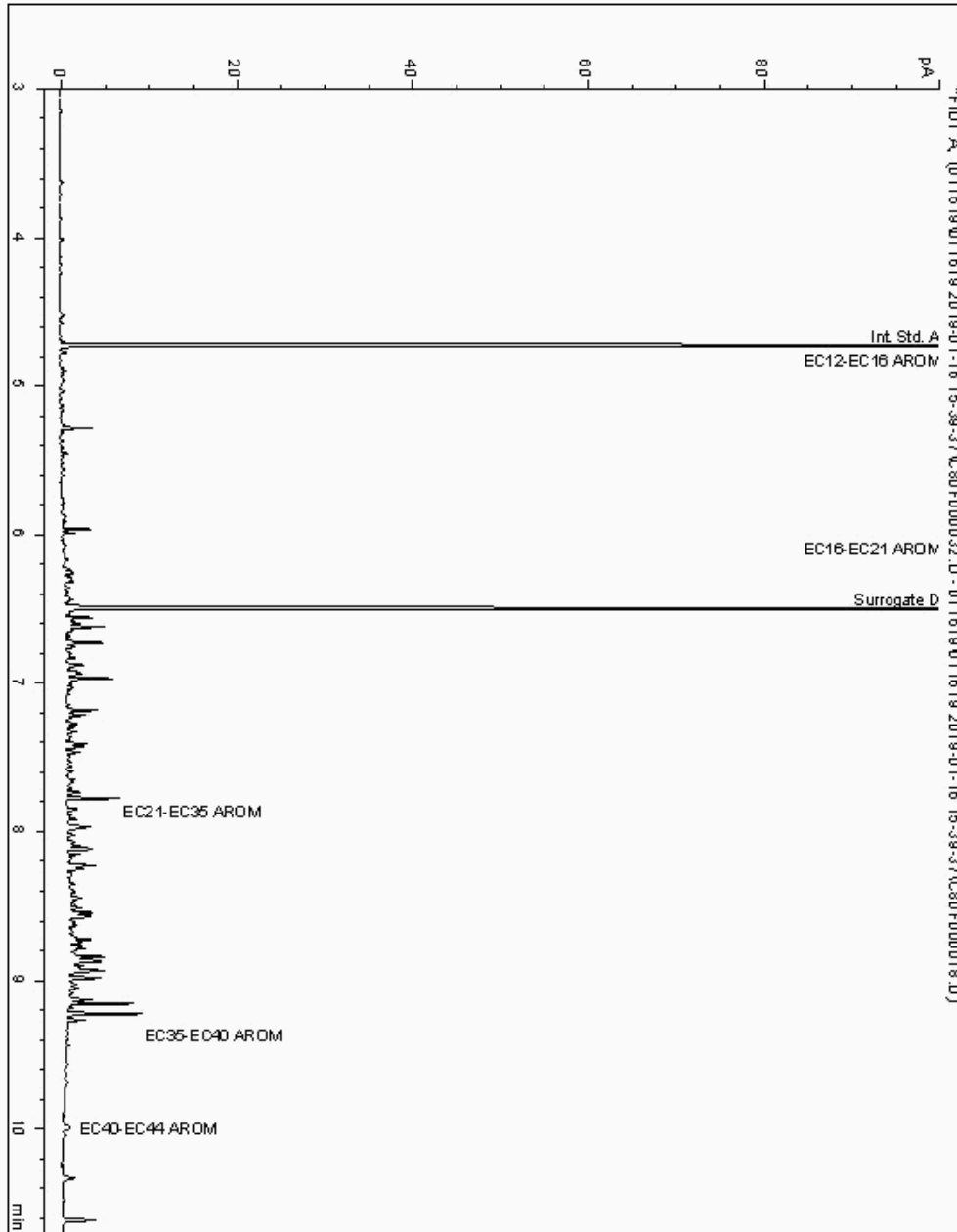
Analysis: EPH CWG (Aromatic) GC (S)
19111619

Sample No :
Sample ID : BH218

19,111,619 Depth : 2.00 - 3.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17948116-
Date Acquired : 17/01/19 01:53:49
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

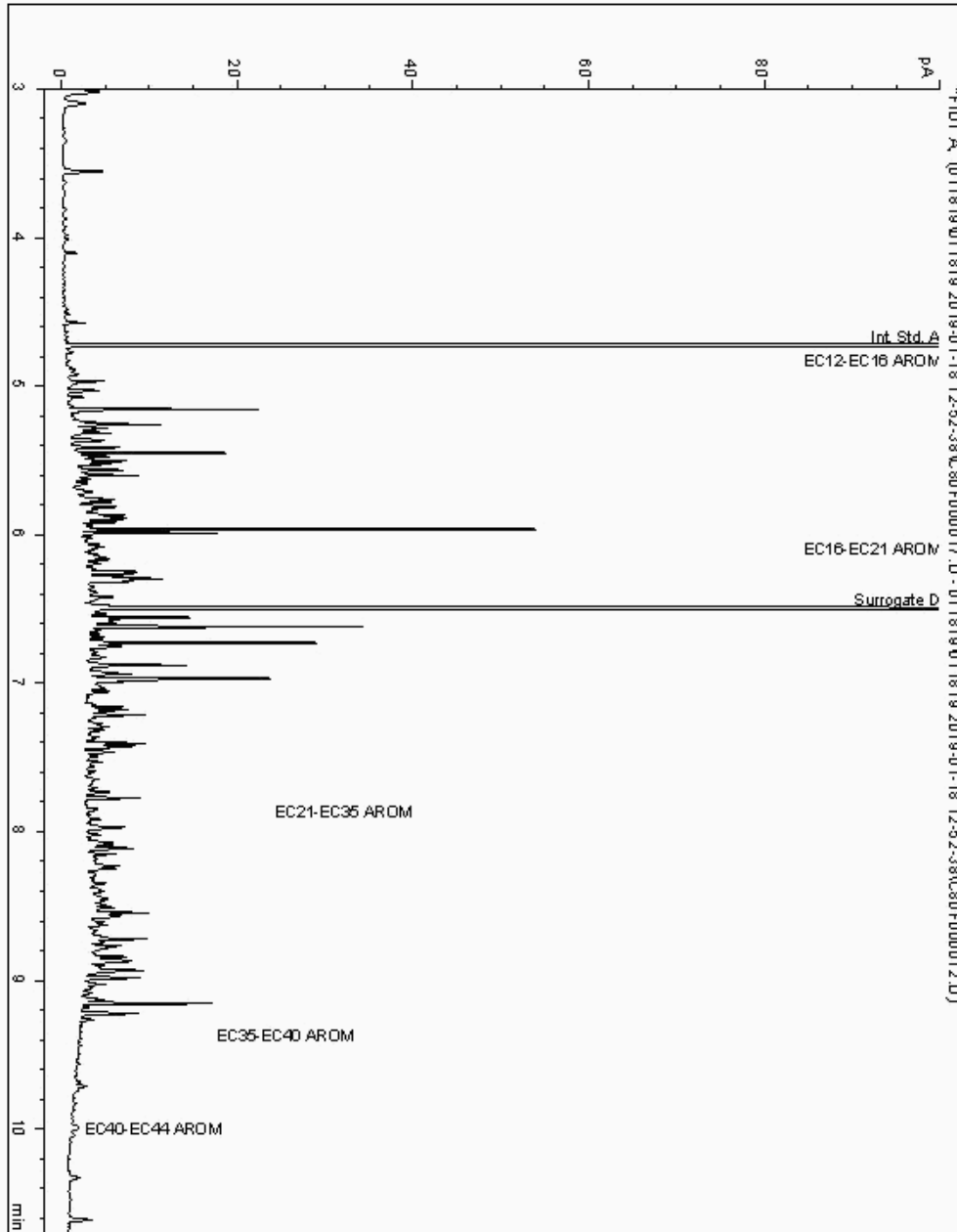
Analysis: EPH CWG (Aromatic) GC (S)
19112027

Sample No :
Sample ID : BH223

19,112,027Depth :4.00 - 5.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17946687-
Date Acquired : 18/01/19 18:05:21
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

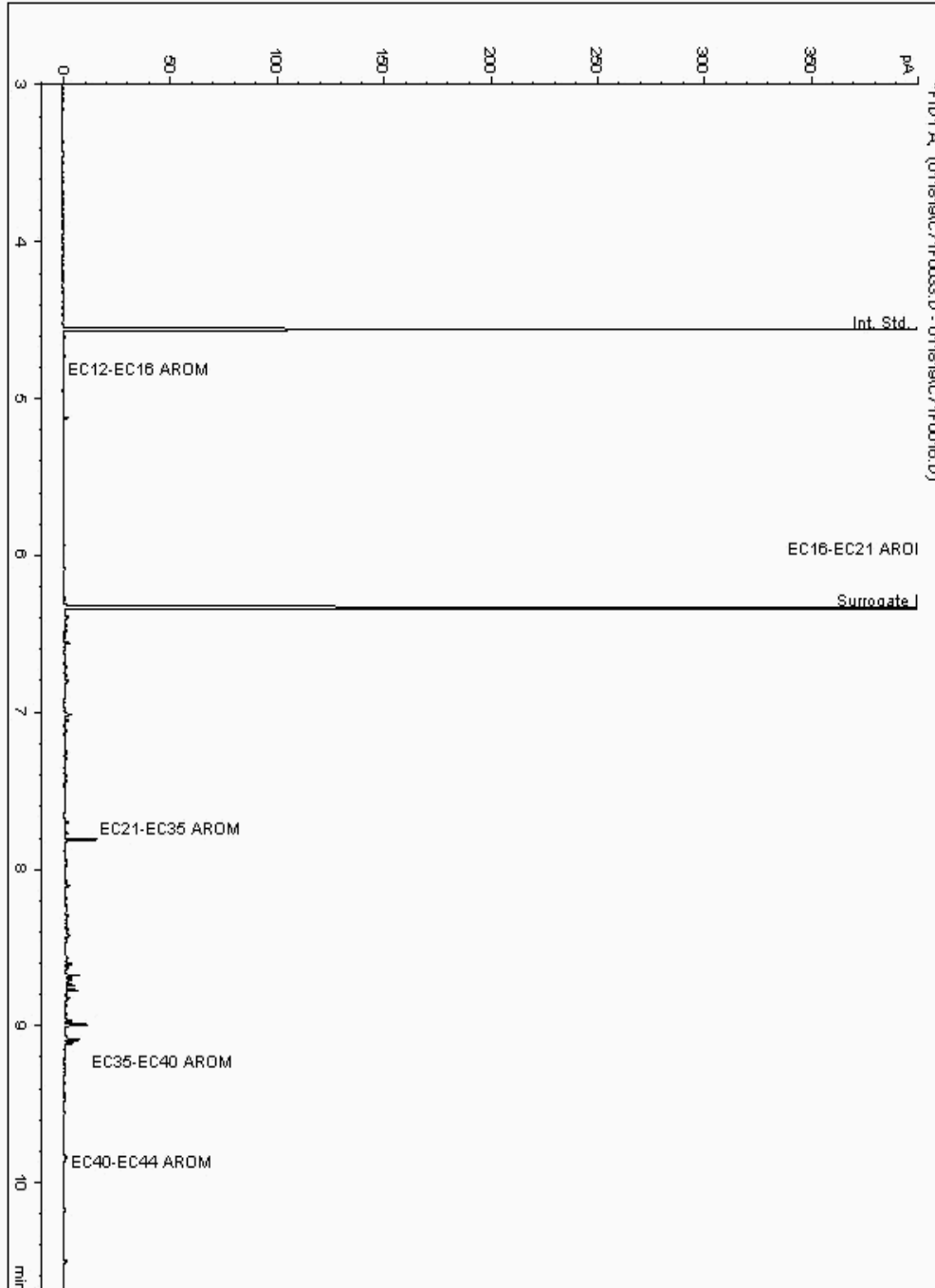
Analysis: EPH CWG (Aromatic) GC (S)
19112081

Sample No :
Sample ID : BH222

19,112,081 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17947266-
Date Acquired : 18/01/2019 18:56:29 PM
Units : ppb
Dilution: BH222[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

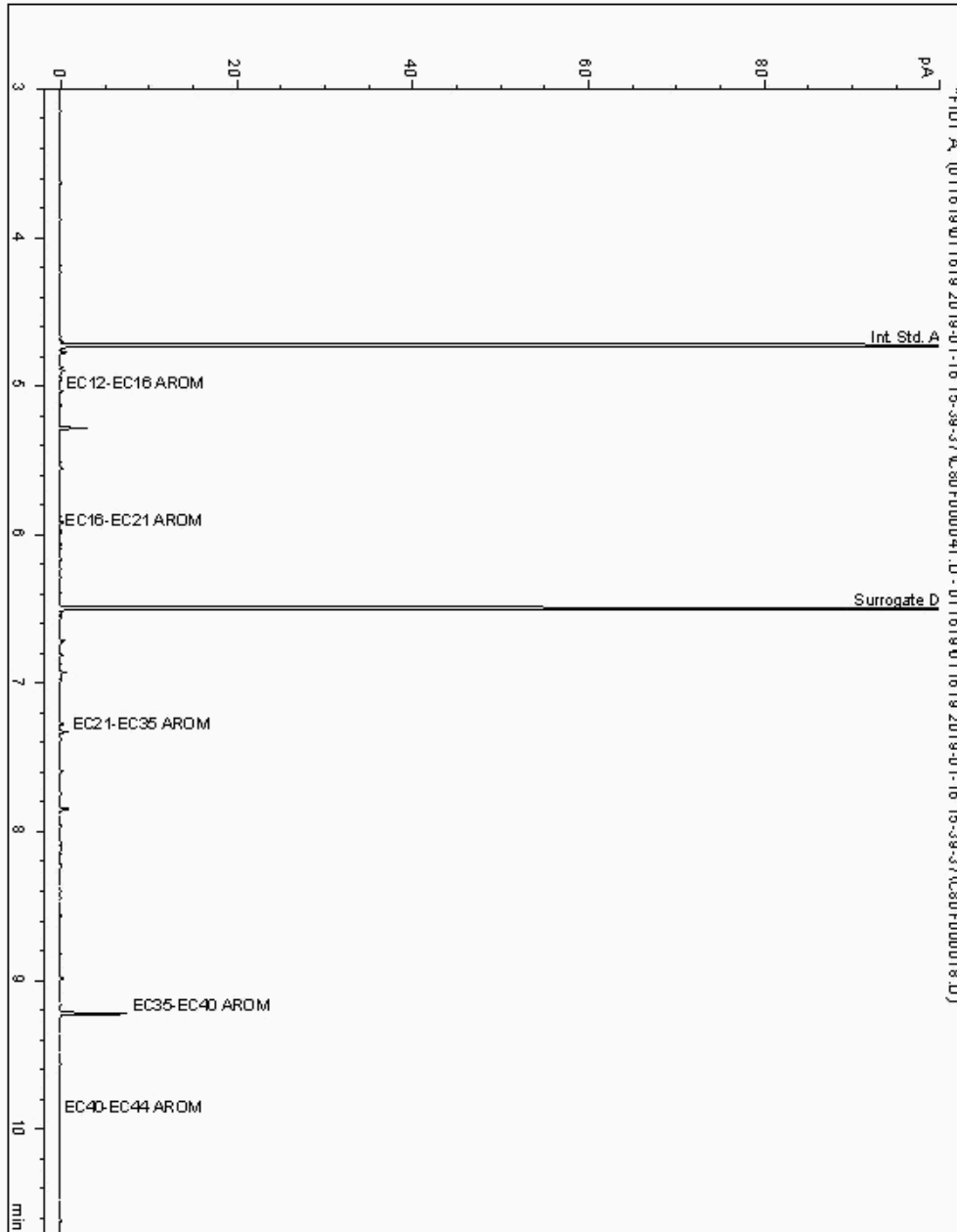
Analysis: EPH CWG (Aromatic) GC (S)
19112185

Sample No :
Sample ID : BH218

19,112,185Depth :9.00 - 10.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17948208-
Date Acquired : 17/01/19 04:22:41
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

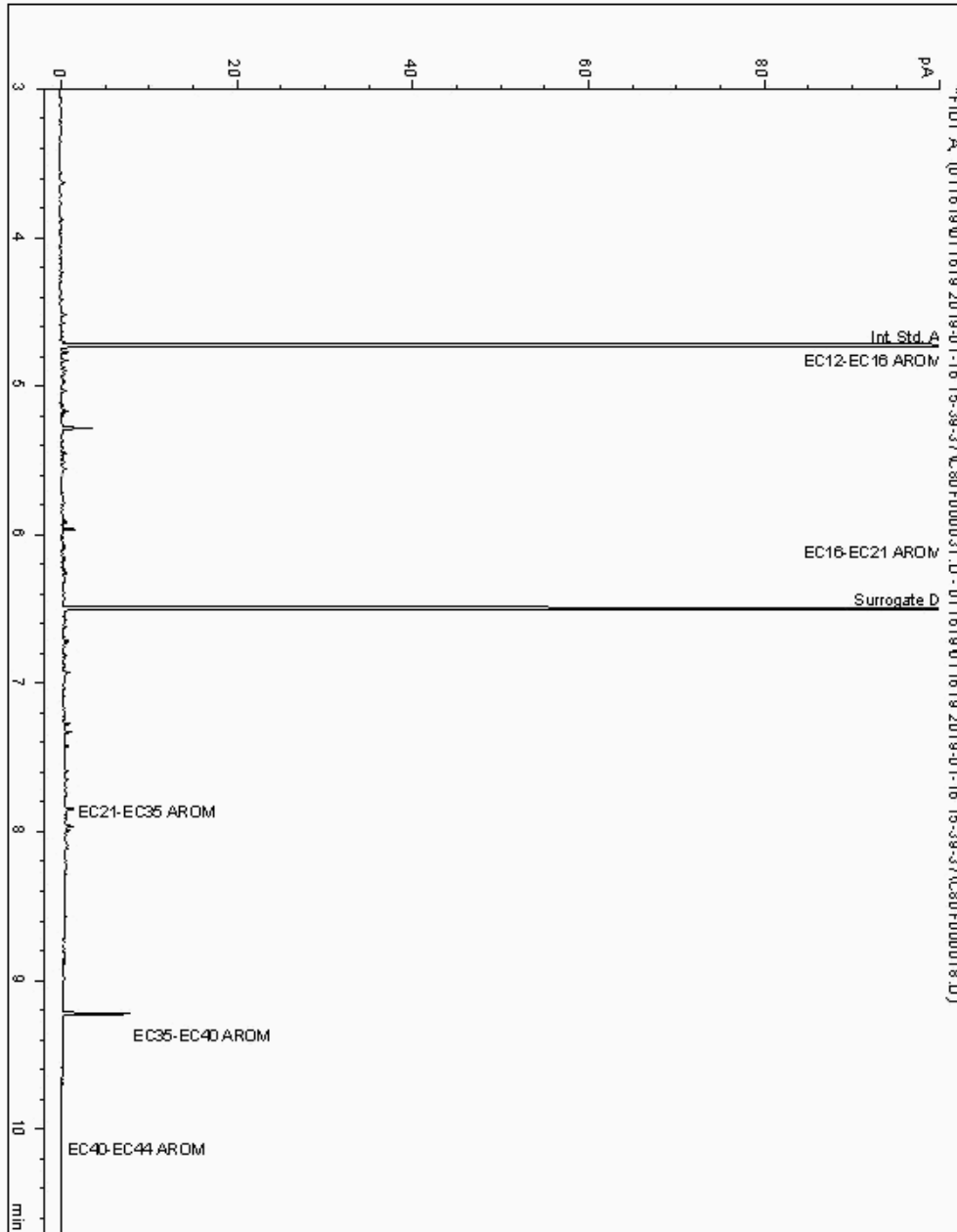
Analysis: EPH CWG (Aromatic) GC (S)
19112298

Sample No :
Sample ID : BH224

19,112,298Depth : 16.00 - 17.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17947717-
Date Acquired : 17/01/19 01:33:33
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

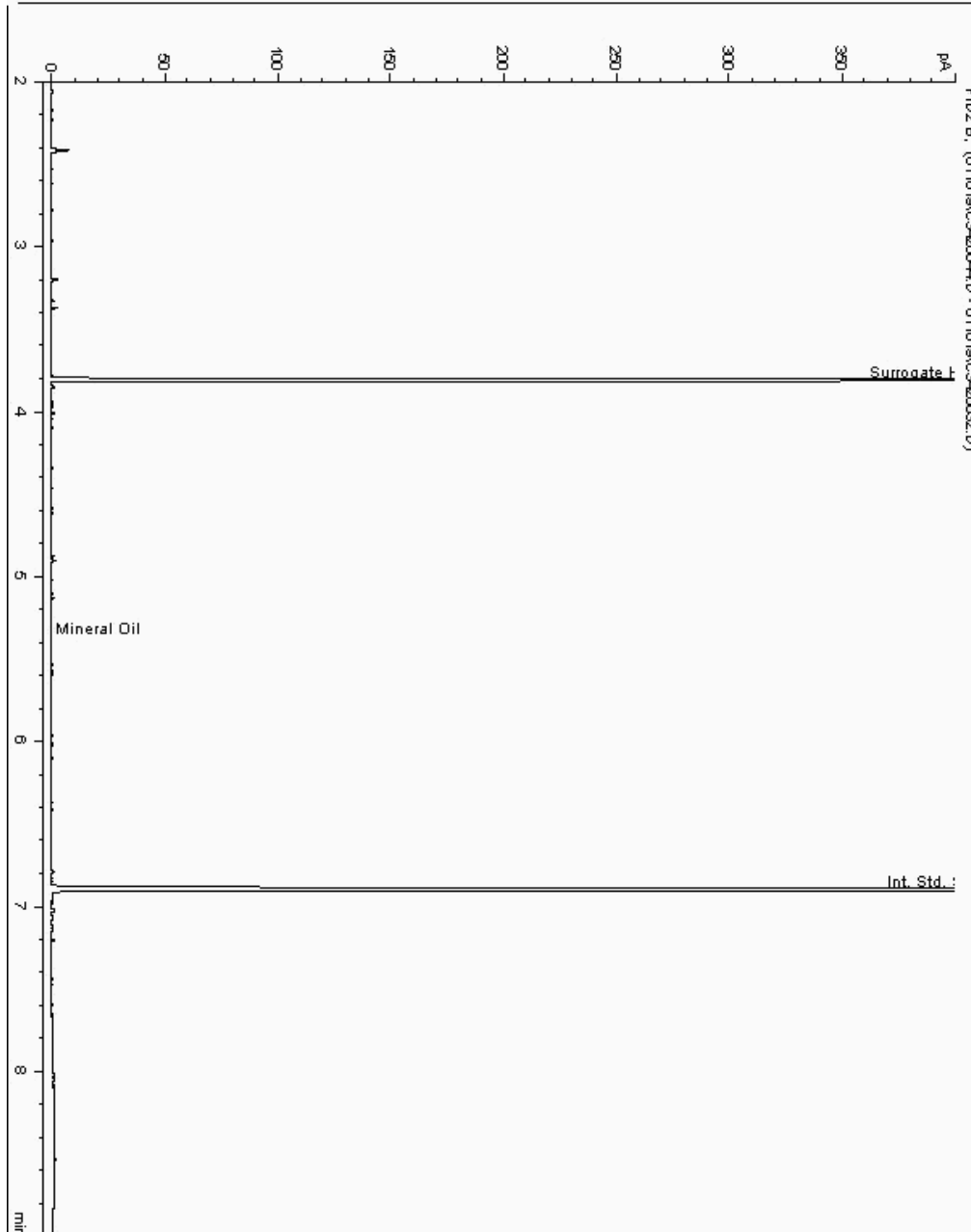
Analysis: Mineral Oil
19108740

Sample No :
Sample ID : BH223

19,108,740 Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946594-
Date Acquired : 16/01/19 23:29:44 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

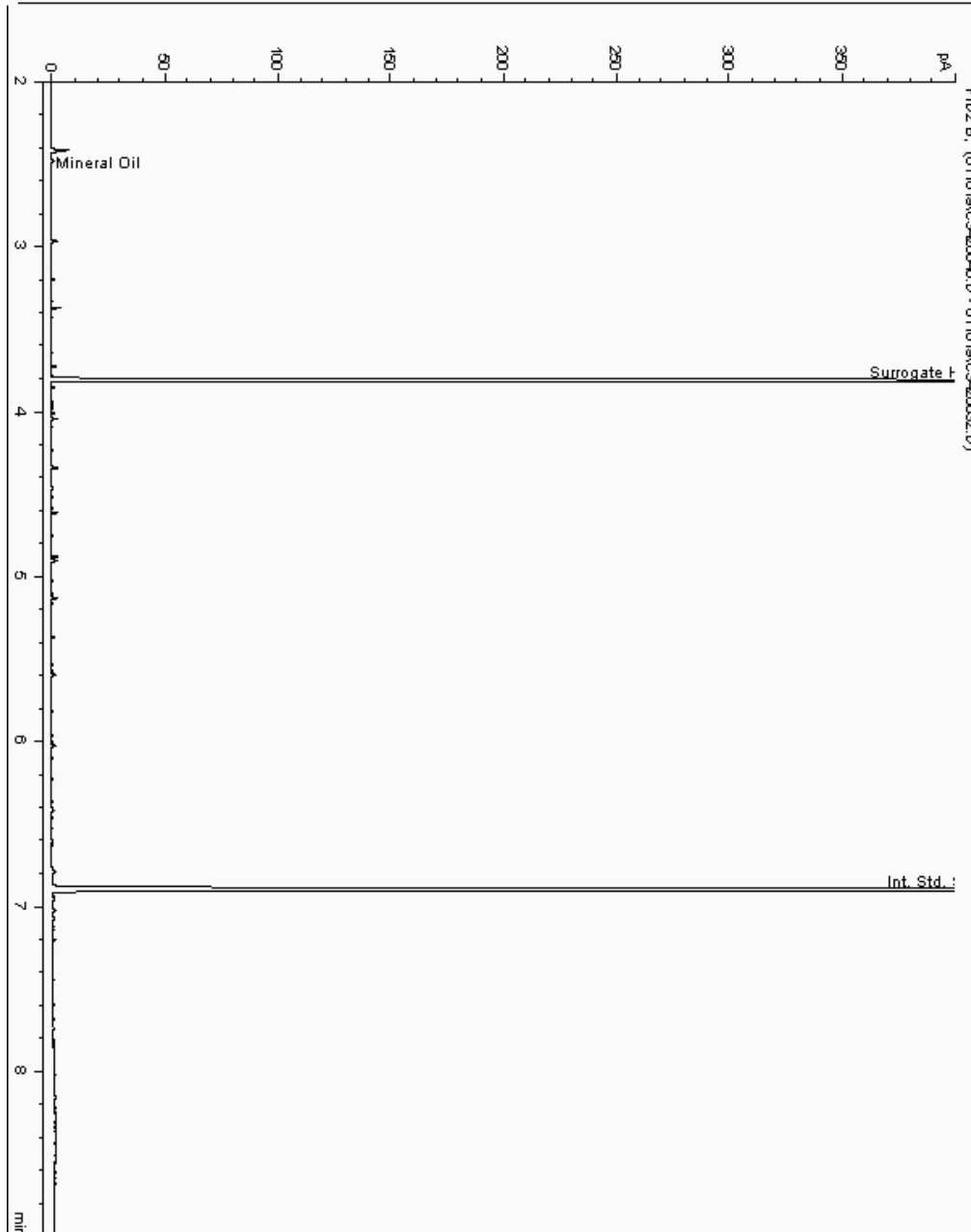
Analysis: Mineral Oil
19108815

Sample No :
Sample ID : BH235

19,108,815 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947414-
Date Acquired : 16/01/19 23:50:04 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

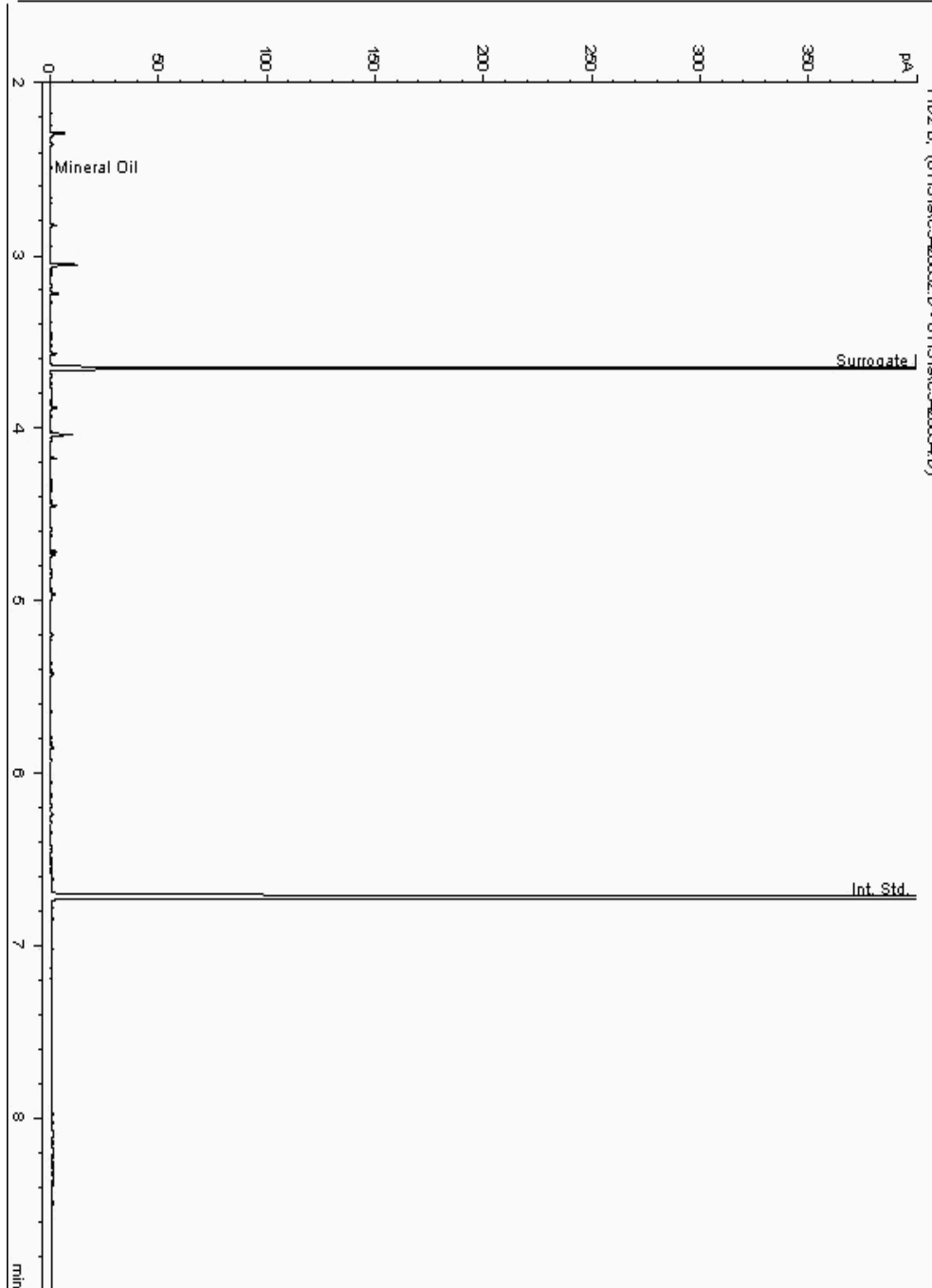
Analysis: Mineral Oil
19108930

Sample No :
Sample ID : BH224

19,108,930Depth : 13.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947765-
Date Acquired : 16/01/2019 00:35:01 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

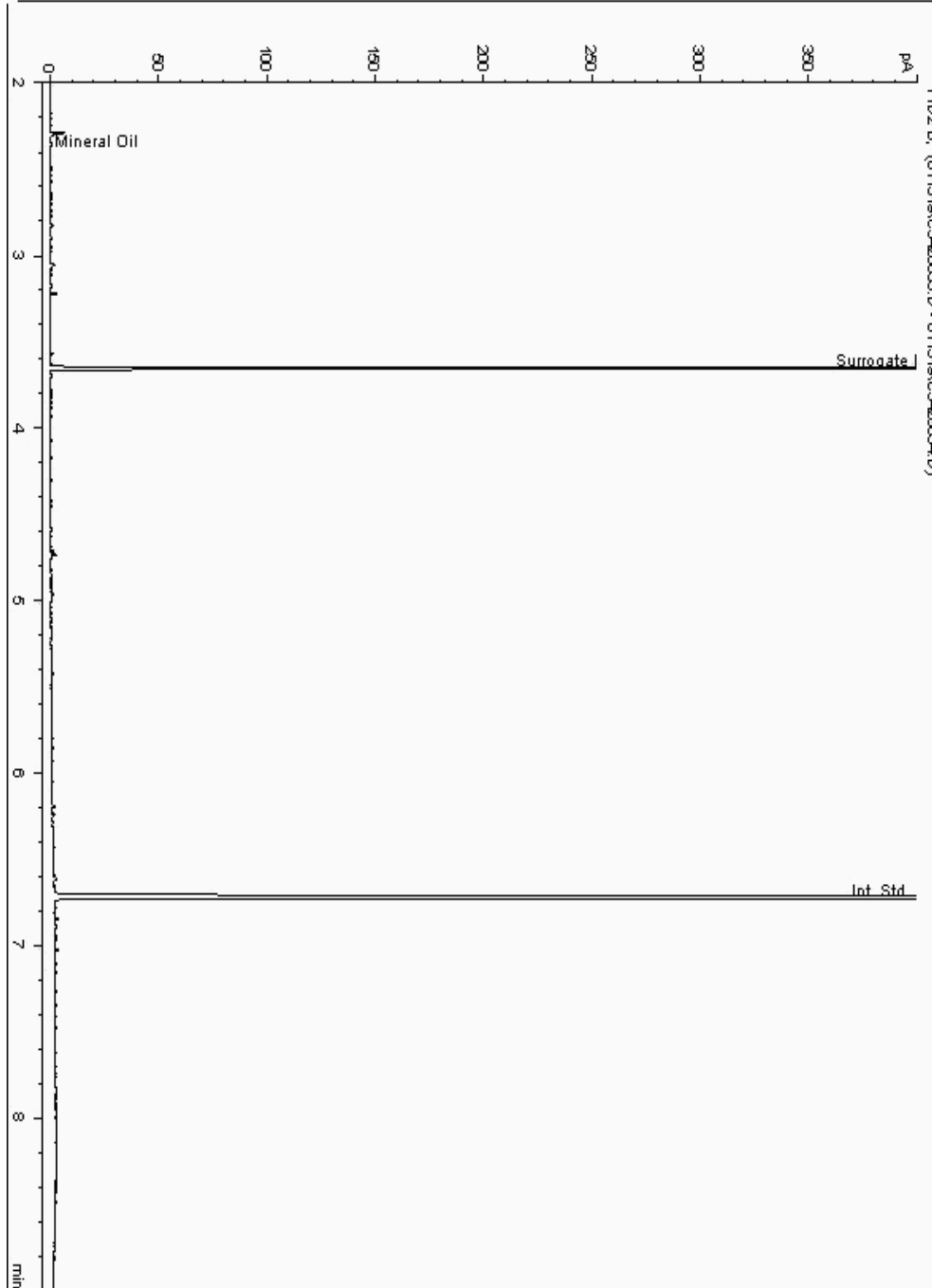
Analysis: Mineral Oil
19108966

Sample No :
Sample ID : BH223

19,108,966Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946733-
Date Acquired : 16/01/2019 00:56:00 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

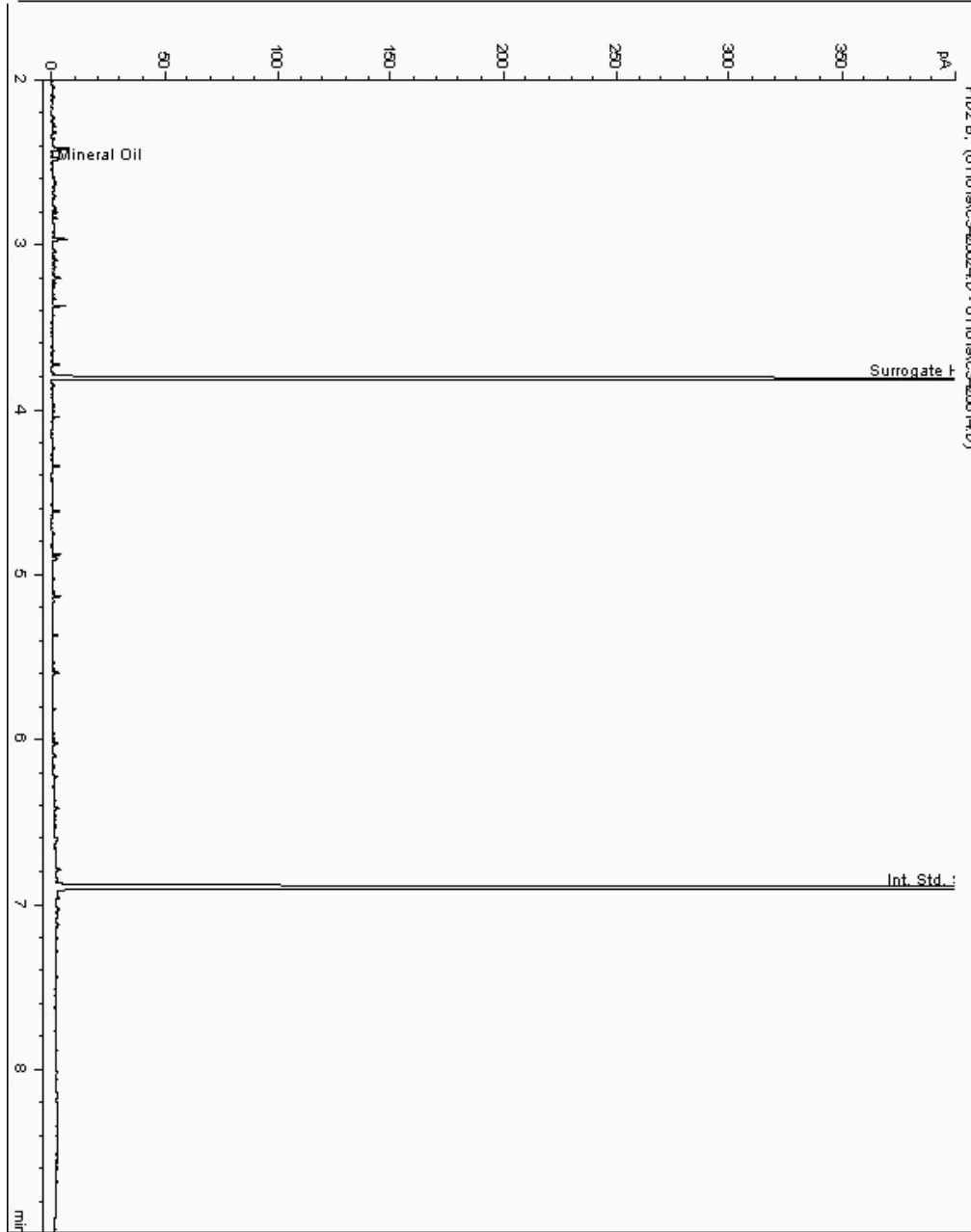
Analysis: Mineral Oil
19109048

Sample No :
Sample ID : BH224

19,109,048 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947741-
Date Acquired : 16/01/19 17:14:27 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

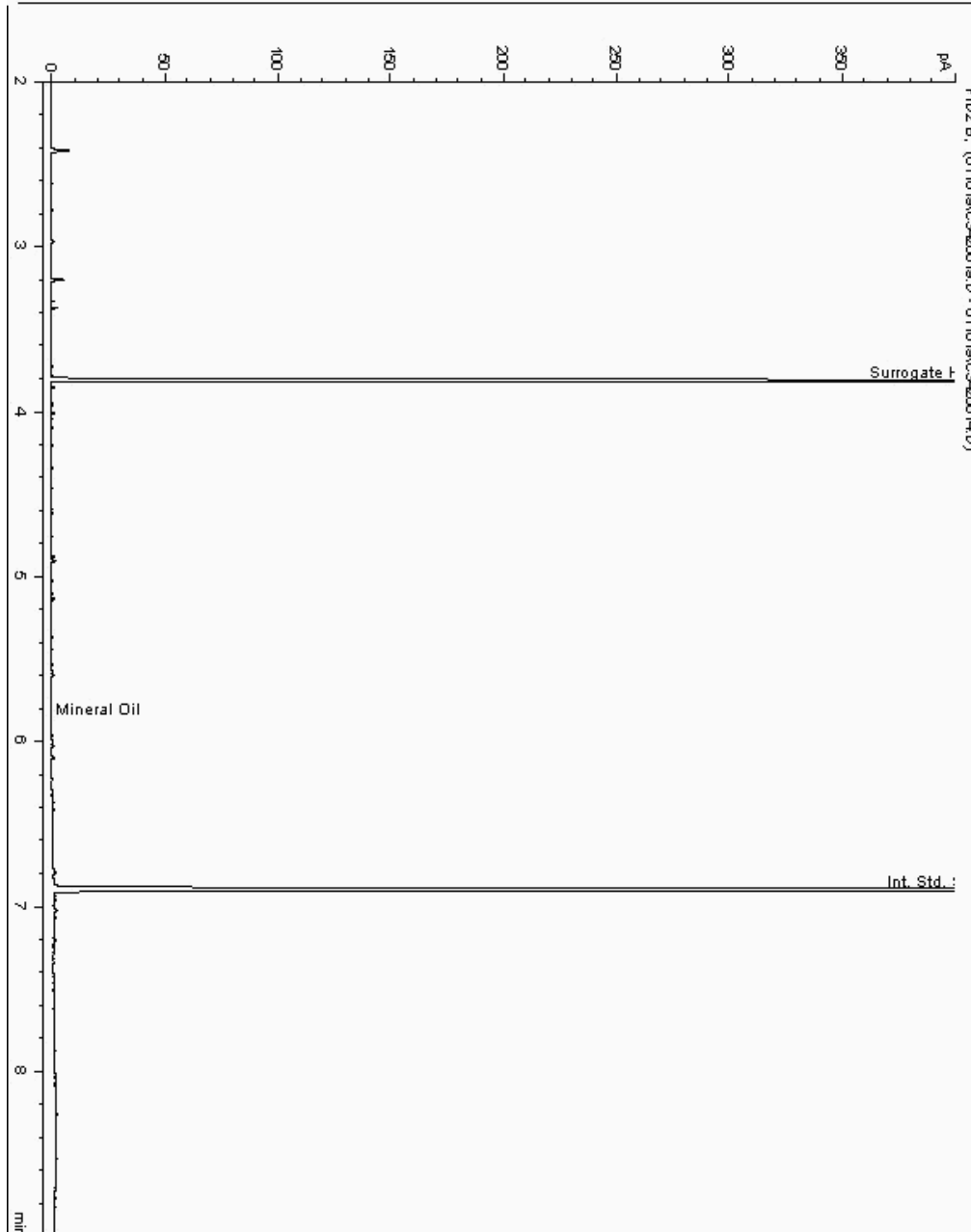
Analysis: Mineral Oil
19109108

Sample No :
Sample ID : BH218

19,109,108Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948232-
Date Acquired : 16/01/19 15:41:06 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

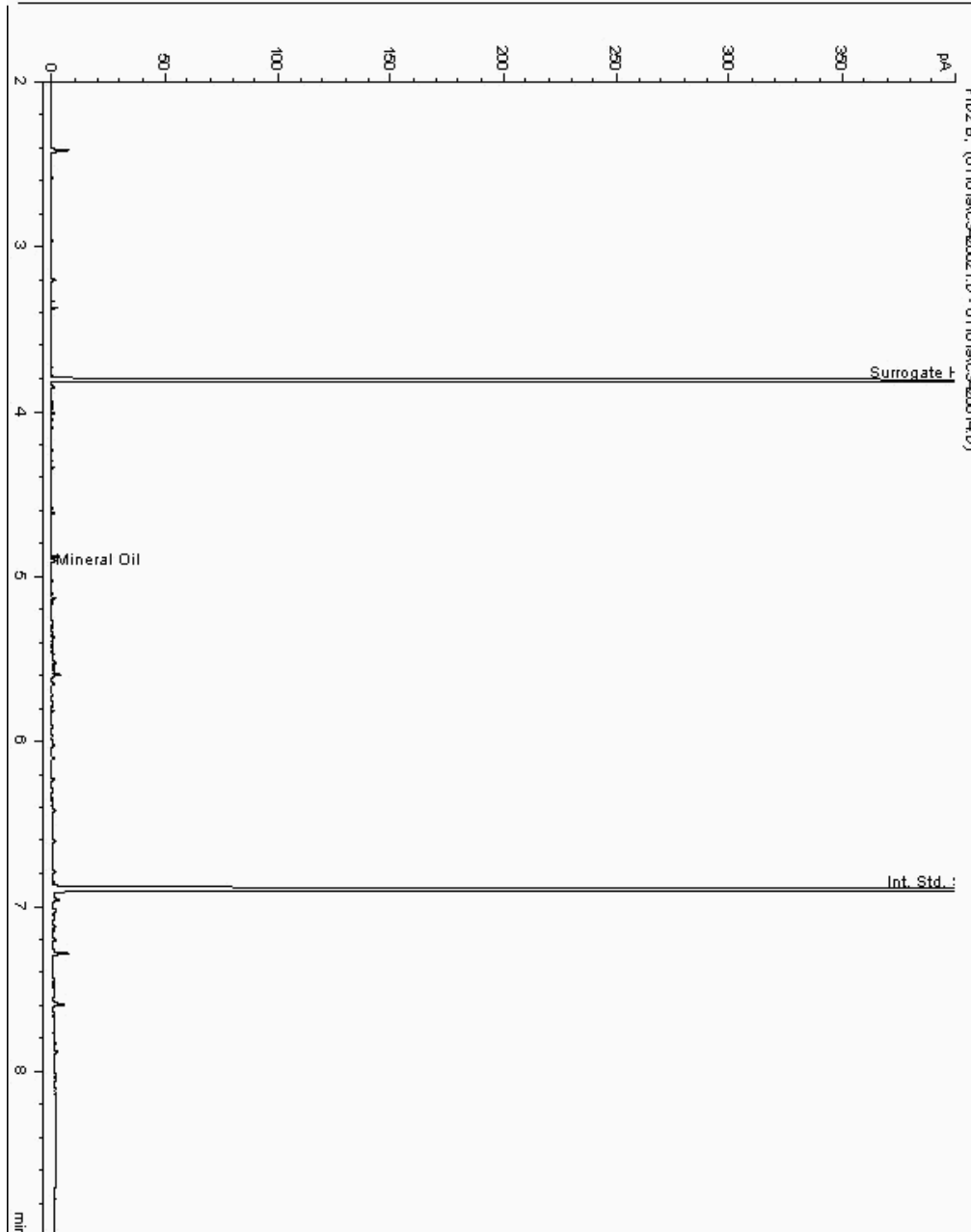
Analysis: Mineral Oil
19109161

Sample No :
Sample ID : BH218

19,109,161 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948139-
Date Acquired : 16/01/19 16:21:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

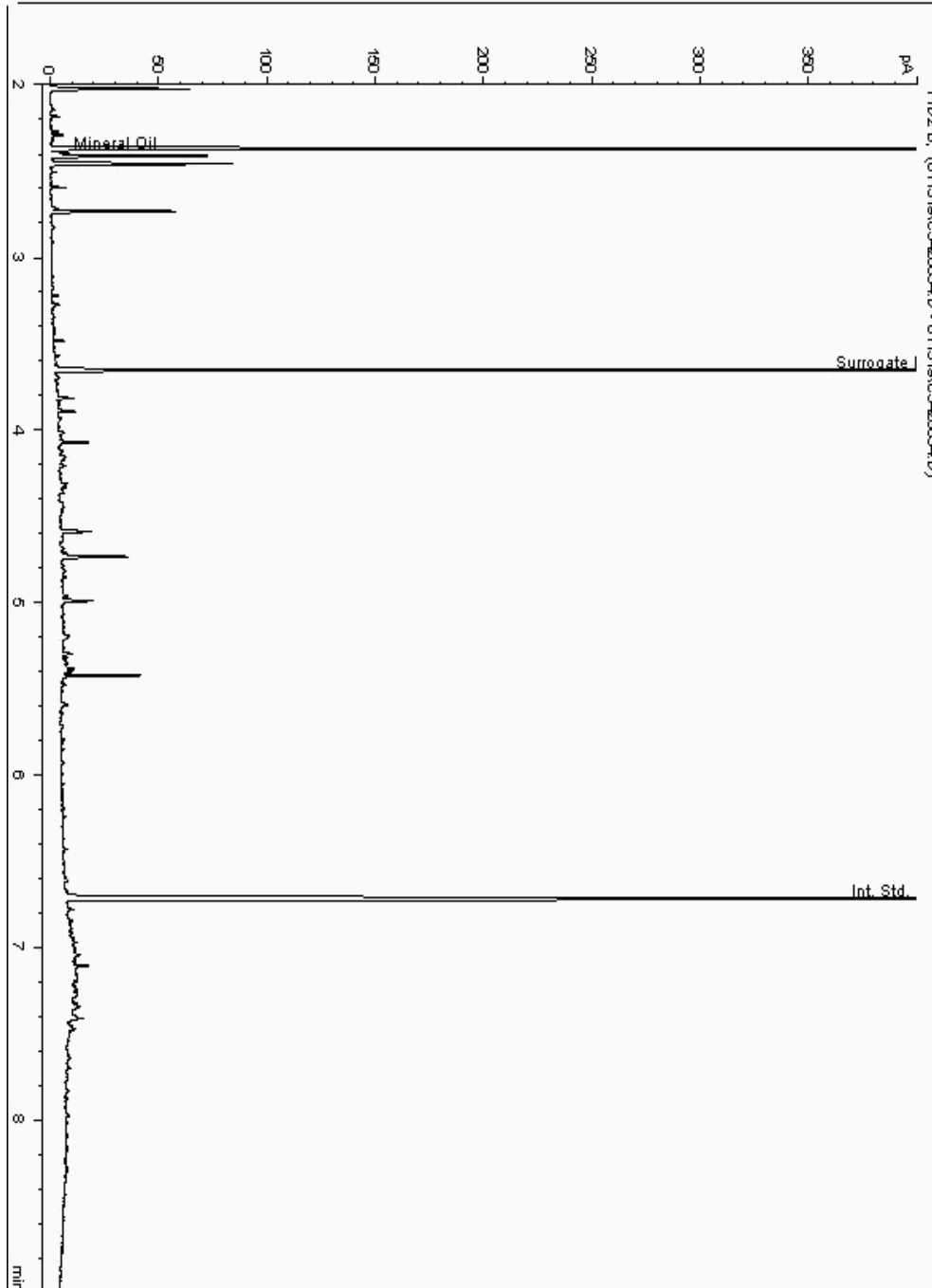
Analysis: Mineral Oil
19109163

Sample No :
Sample ID : BH223

19,109,163Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946710-
Date Acquired : 16/01/2019 01:16:59 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

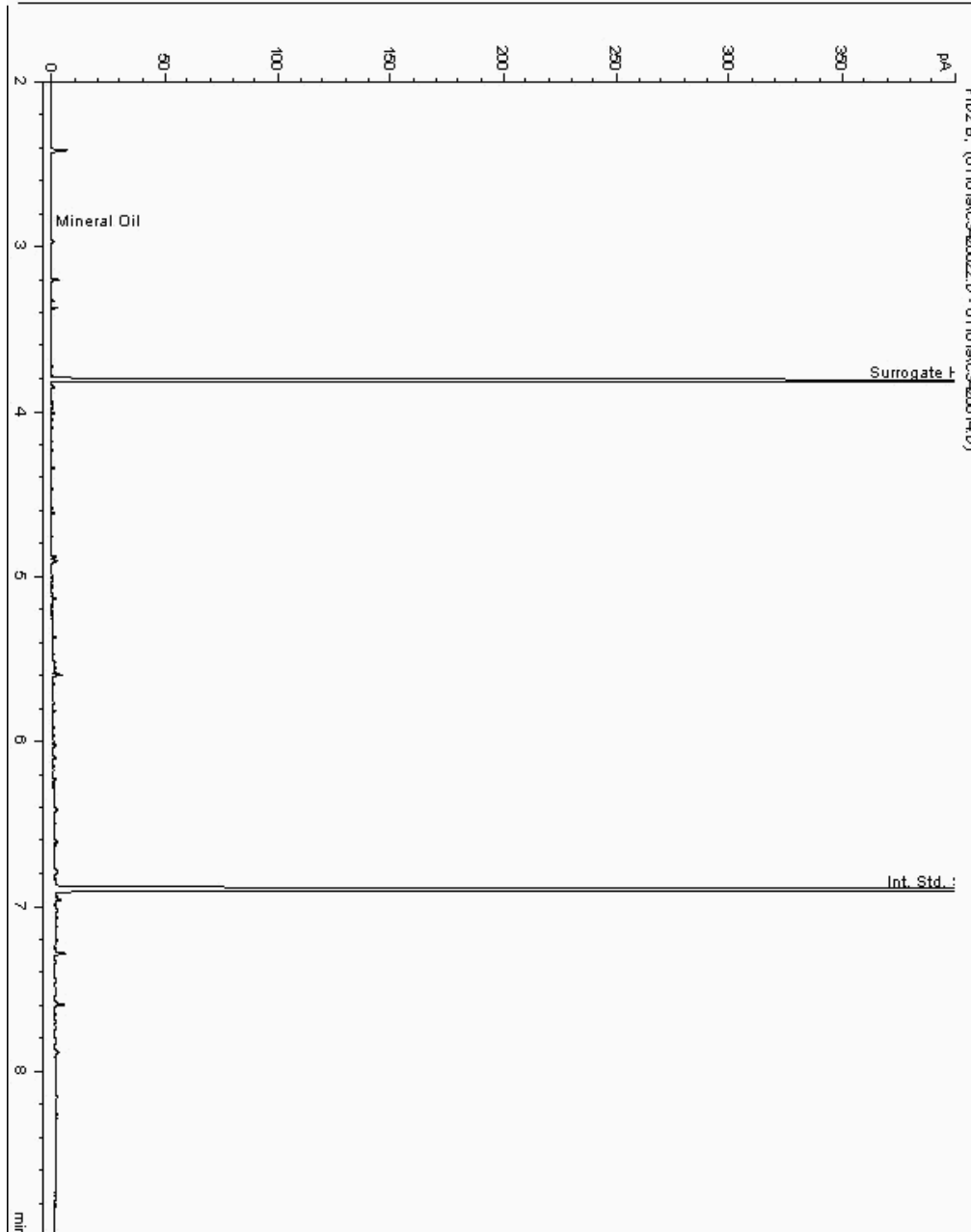
Analysis: Mineral Oil
19109225

Sample No :
Sample ID : BH218

19,109,225Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948093-
Date Acquired : 16/01/19 16:42:09 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

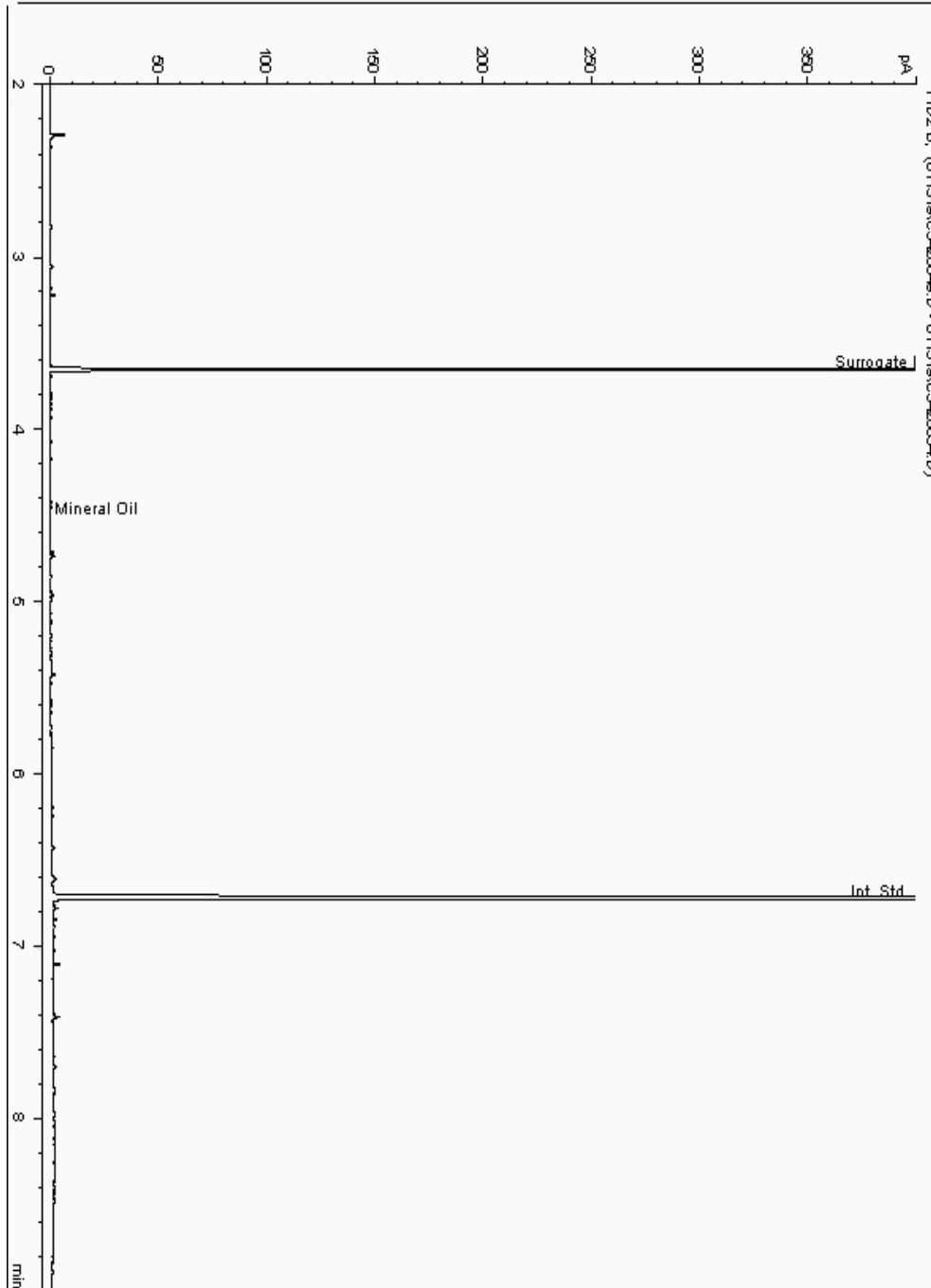
Analysis: Mineral Oil
19109245

Sample No :
Sample ID : BH218

19,109,245Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948070-
Date Acquired : 15/01/2019 23:31:51 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

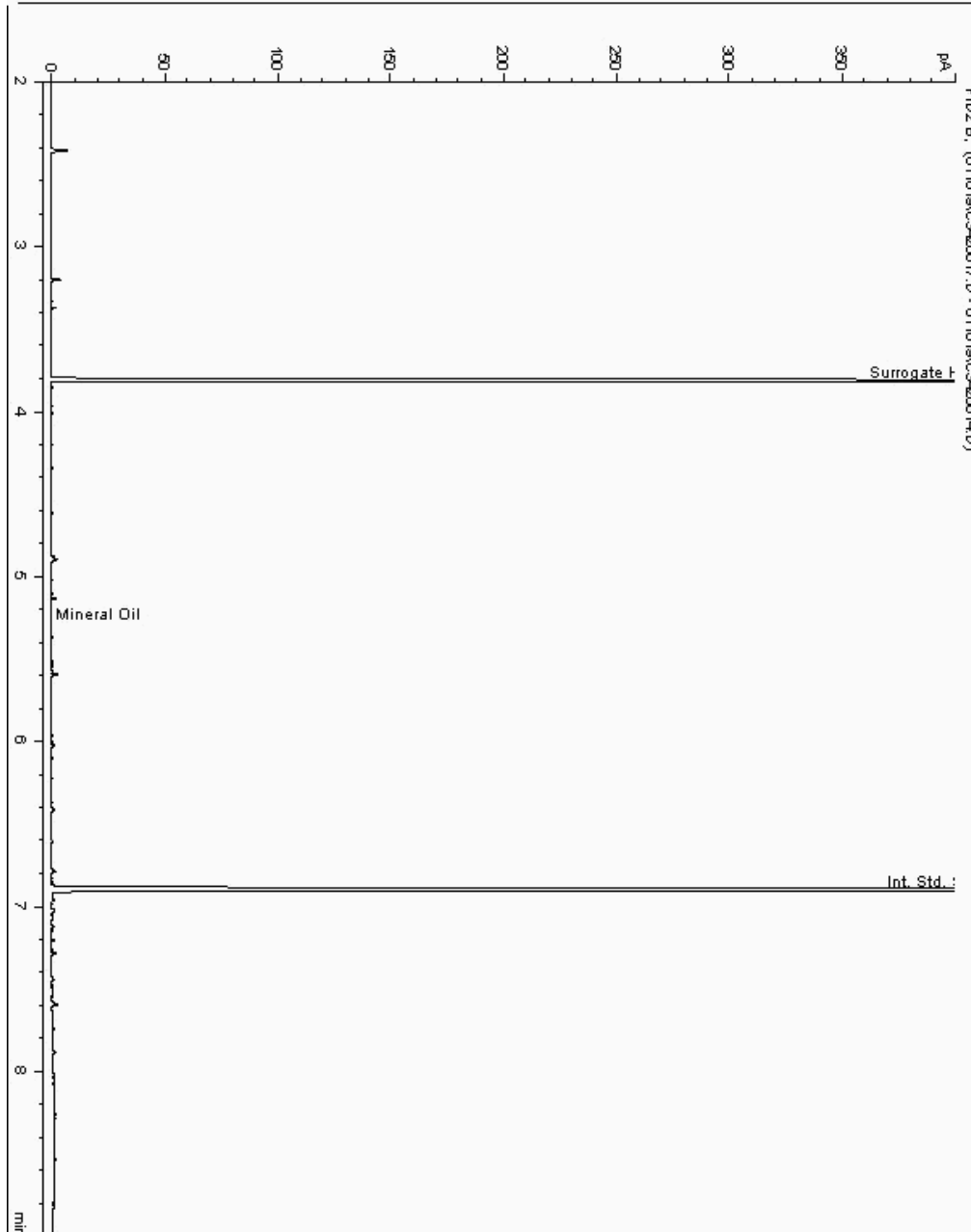
Analysis: Mineral Oil
19109265

Sample No :
Sample ID : BH235

19,109,265Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947566-
Date Acquired : 16/01/19 15:00:22 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

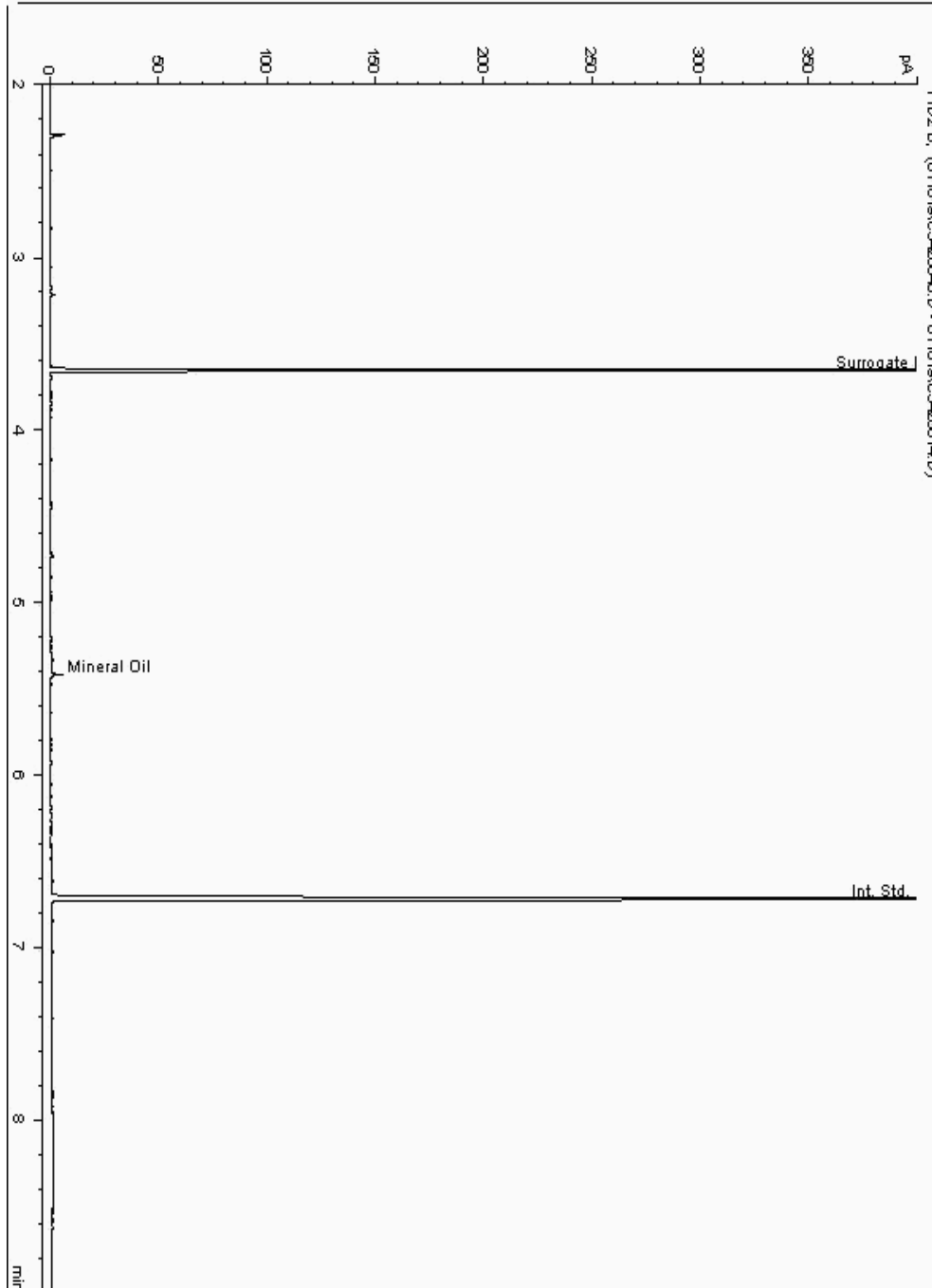
Analysis: Mineral Oil
19109349

Sample No :
Sample ID : BH219

19,109,349Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946875-
Date Acquired : 16/01/2019 21:02:36 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

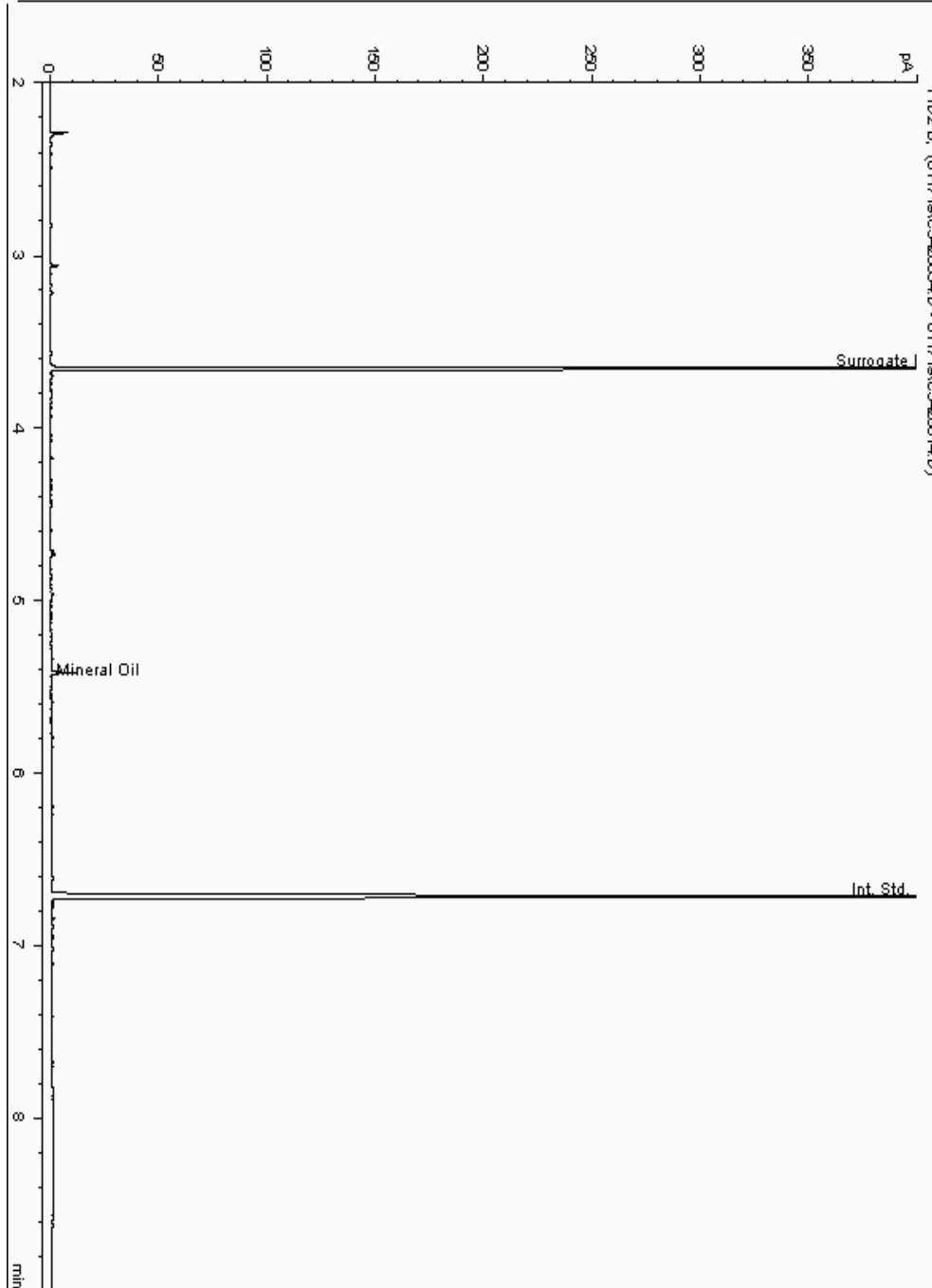
Analysis: Mineral Oil
19109388

Sample No :
Sample ID : BH219

19,109,388Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946853-
Date Acquired : 17/01/2019 19:52:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

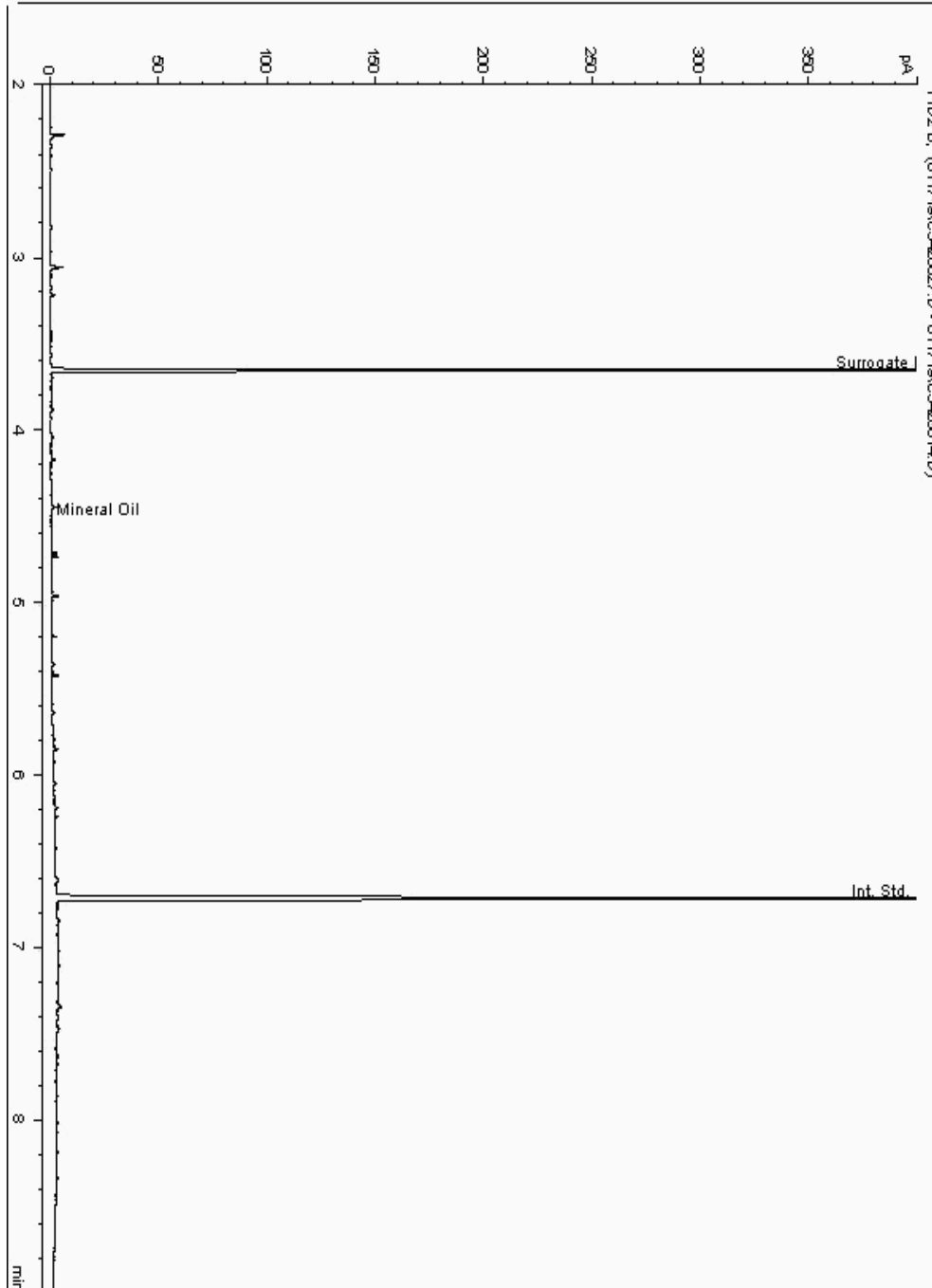
Analysis: Mineral Oil
19109440

Sample No :
Sample ID : BH219

19,109,440Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946973-
Date Acquired : 17/01/2019 17:42:45 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

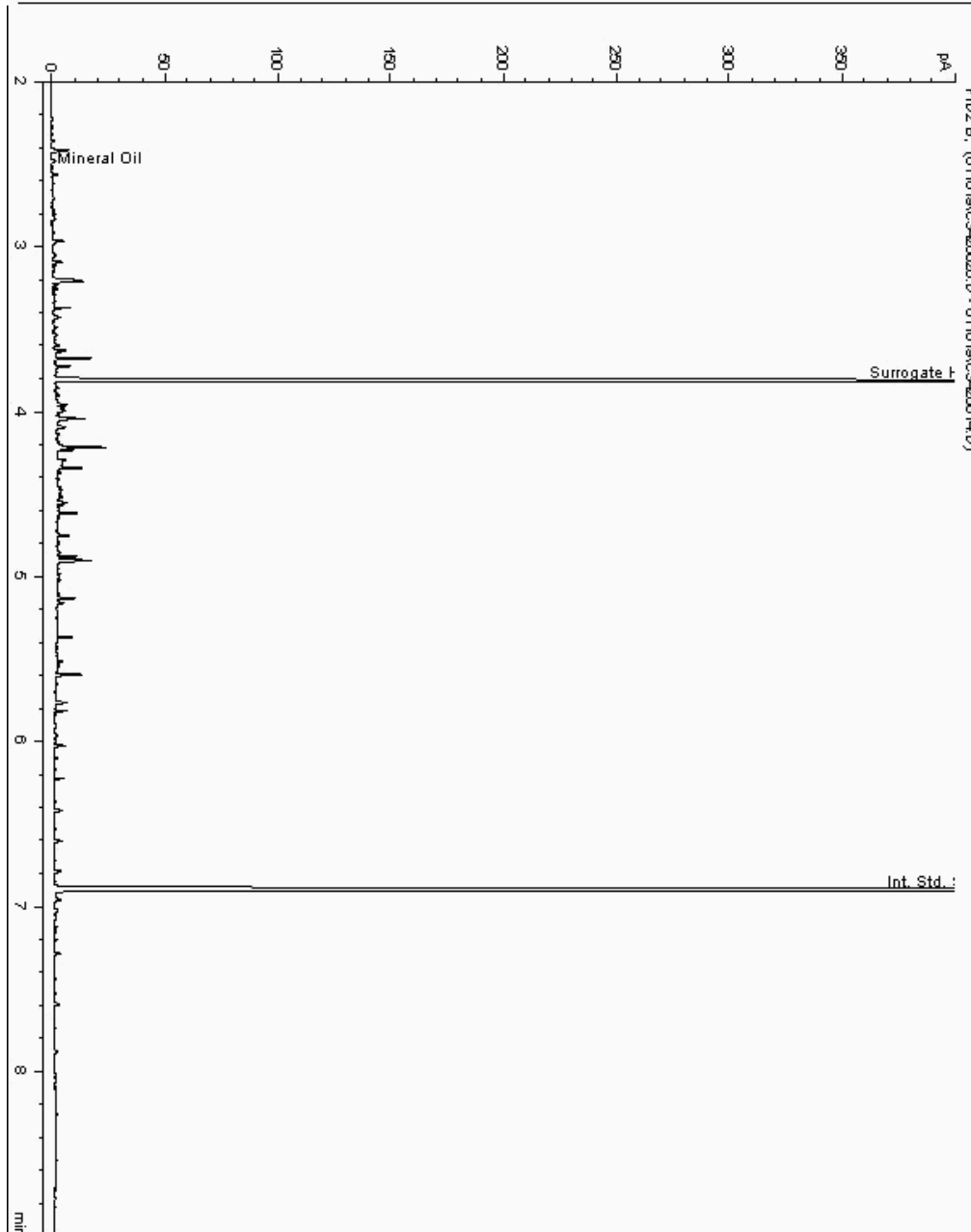
Analysis: Mineral Oil
19109441

Sample No :
Sample ID : BH224

19,109,441 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947835-
Date Acquired : 16/01/19 16:01:26 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

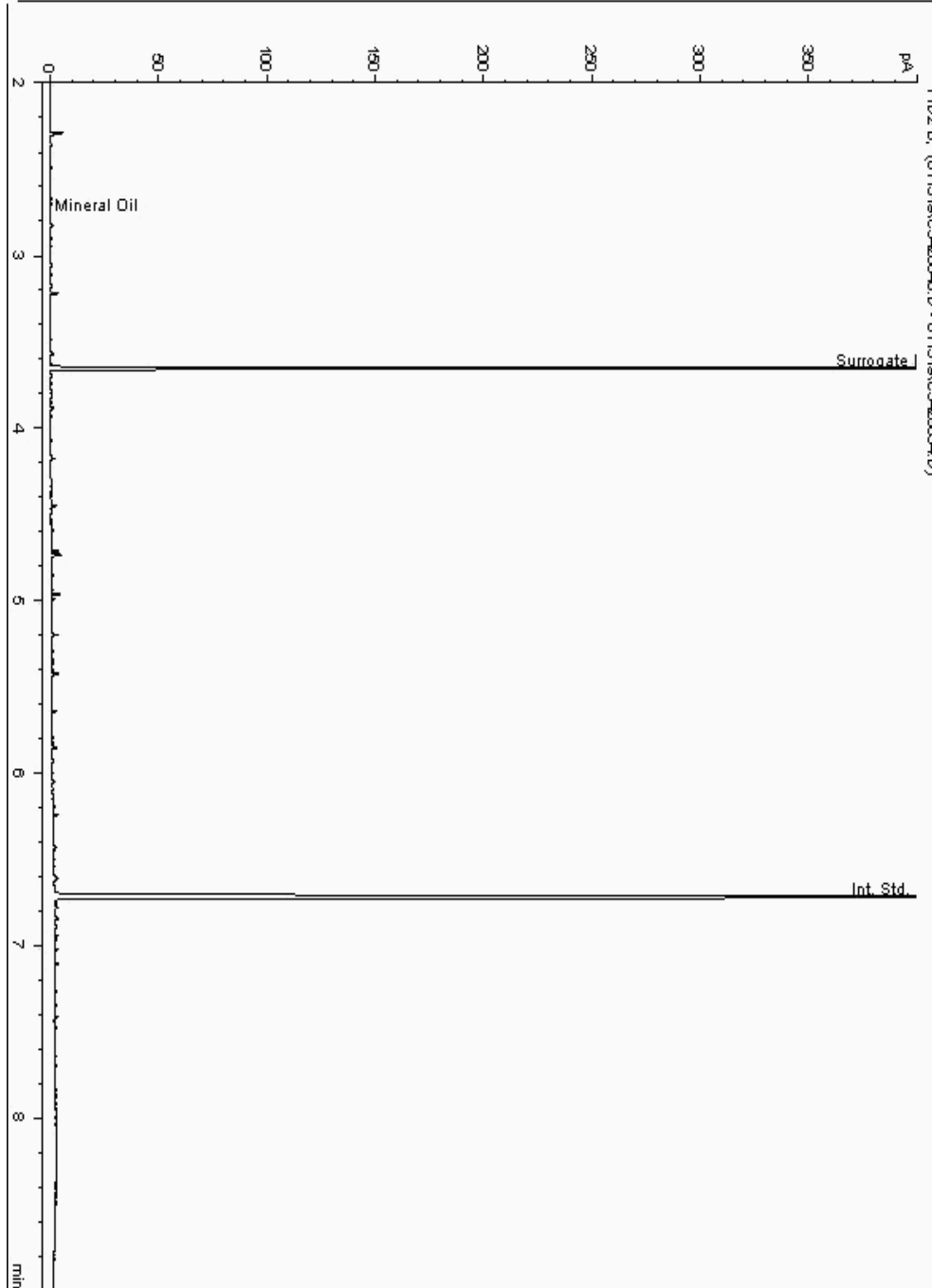
Analysis: Mineral Oil
19109477

Sample No :
Sample ID : BH224

19,109,477Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948001-
Date Acquired : 15/01/2019 23:10:38 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

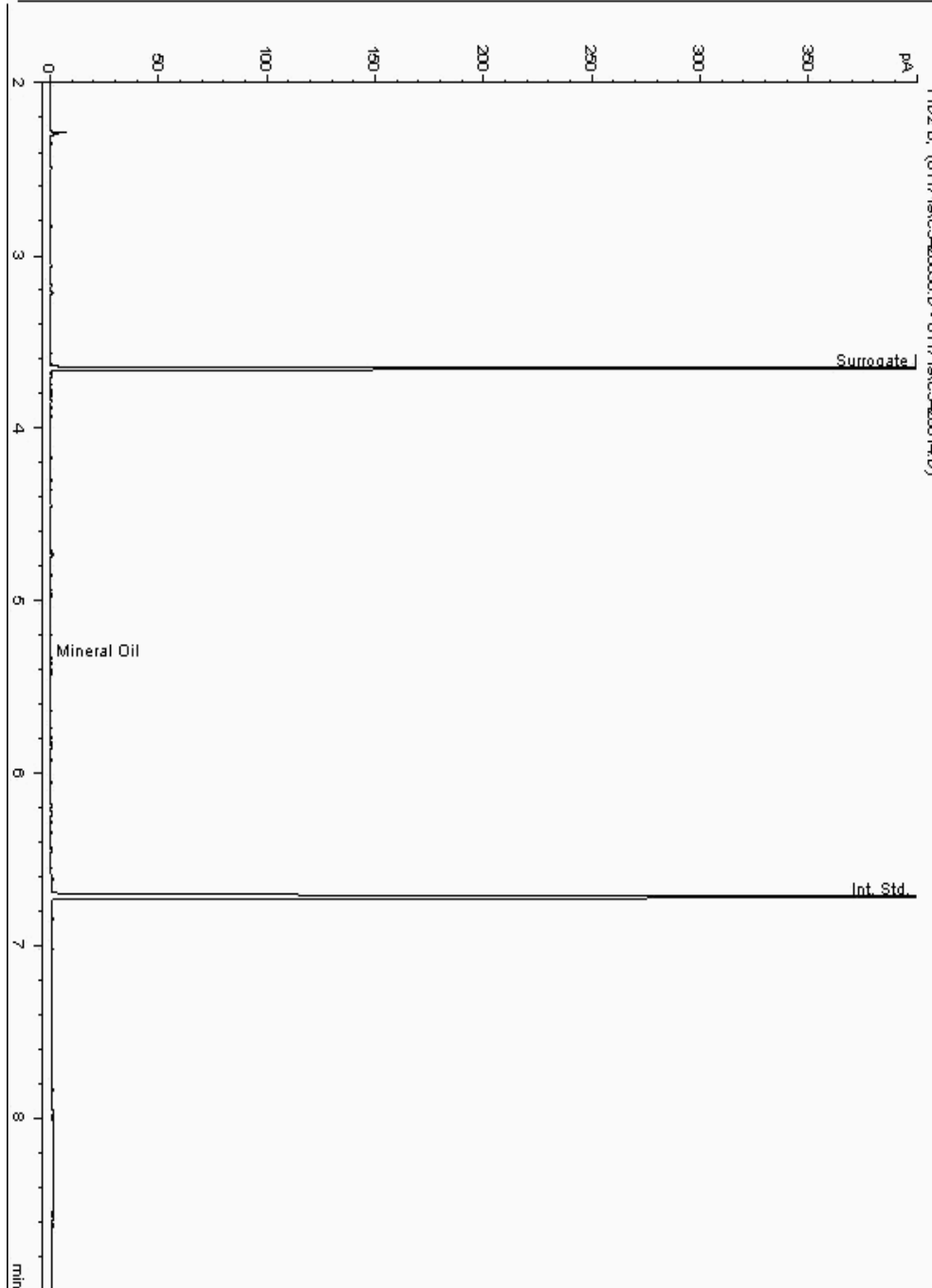
Analysis: Mineral Oil
19109509

Sample No :
Sample ID : BH219

19,109,509Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946803-
Date Acquired : 17/01/2019 18:37:32 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

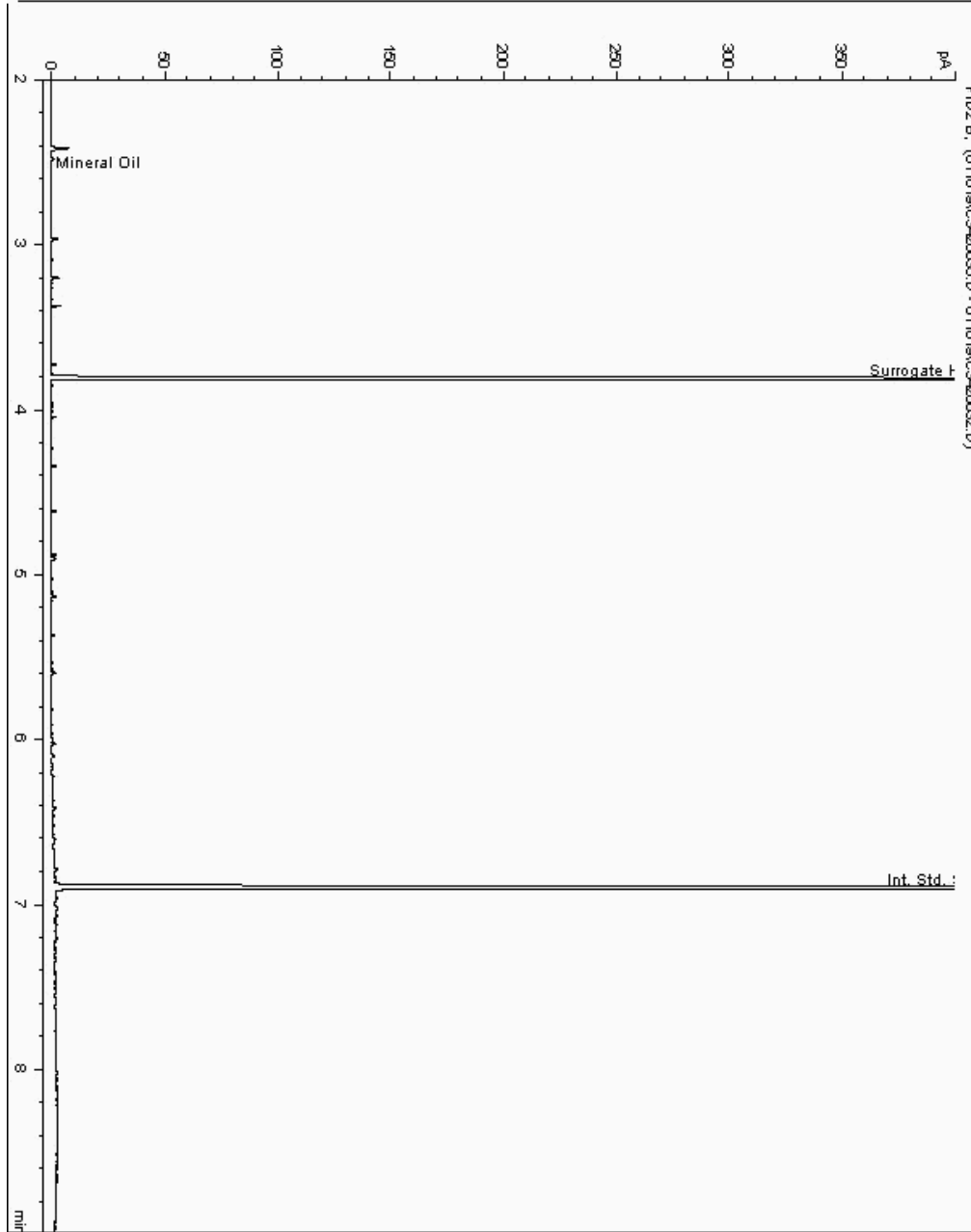
Analysis: Mineral Oil
19109529

Sample No :
Sample ID : BH218

19,109,529Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948303-
Date Acquired : 16/01/19 20:42:07 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

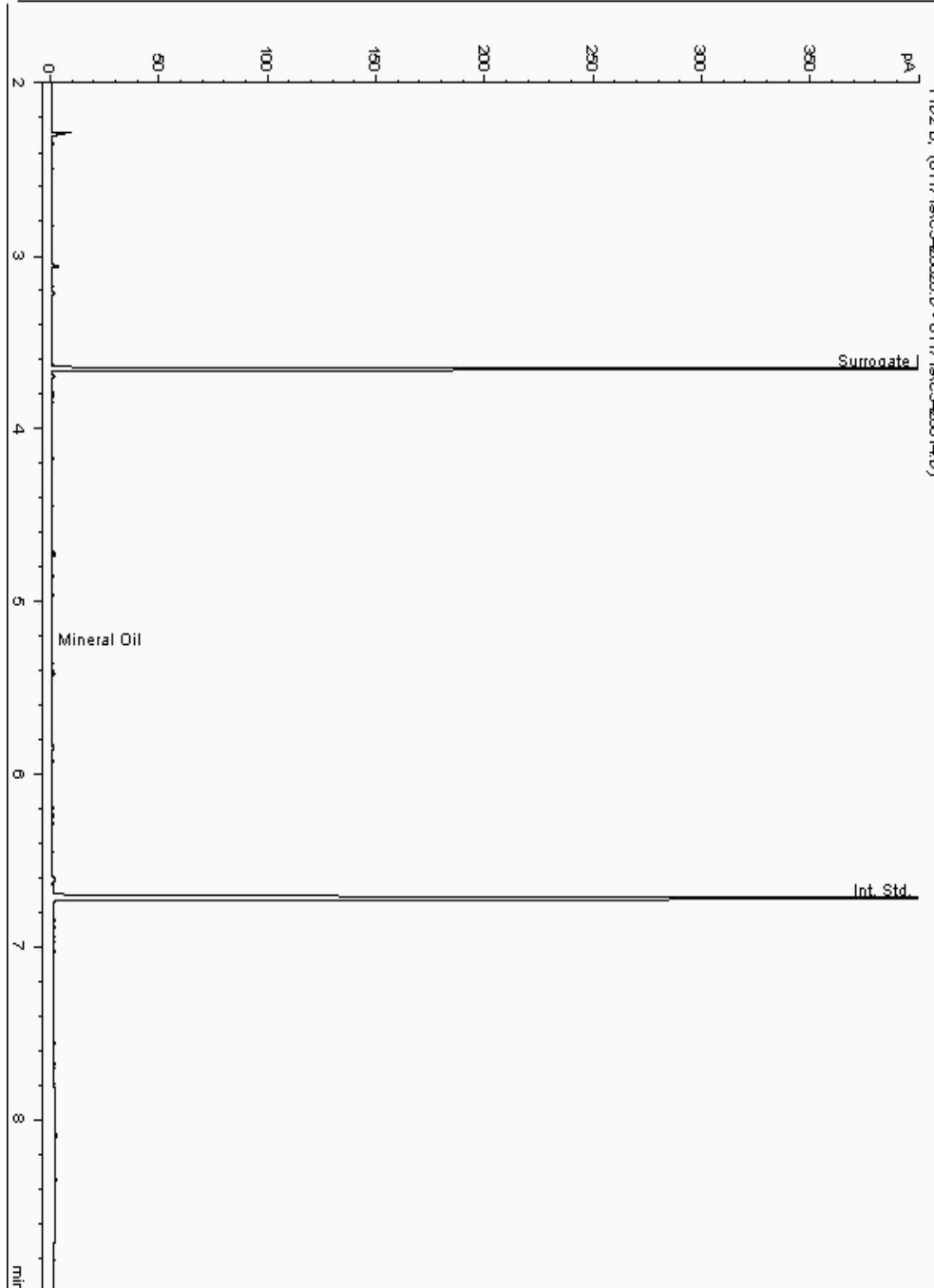
Analysis: Mineral Oil
19109537

Sample No :
Sample ID : BH219

19,109,537Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946830-
Date Acquired : 17/01/2019 15:25:06 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

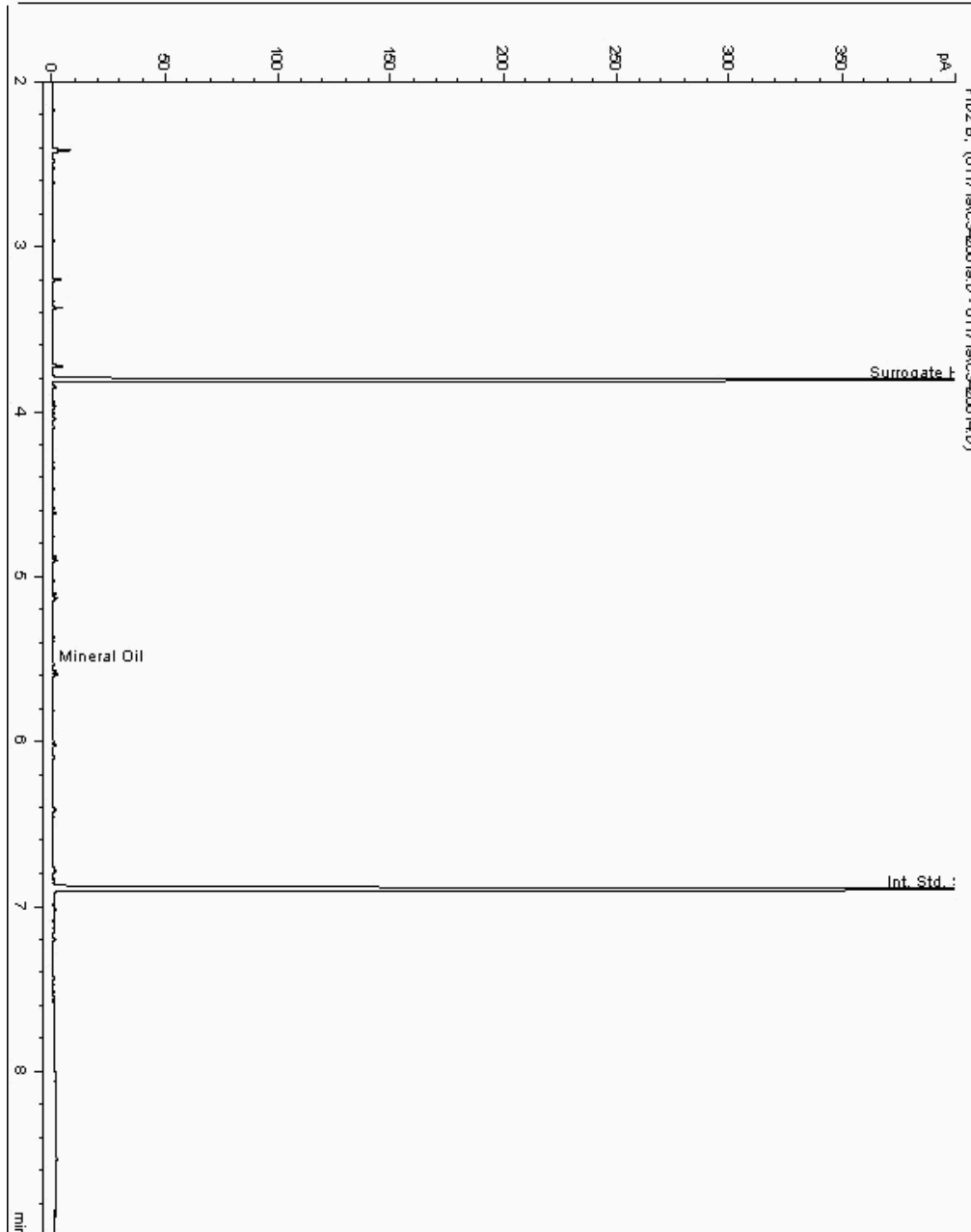
Analysis: Mineral Oil
19109633

Sample No :
Sample ID : BH222

19,109,633 Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947152-
Date Acquired : 17/01/19 15:41:56 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

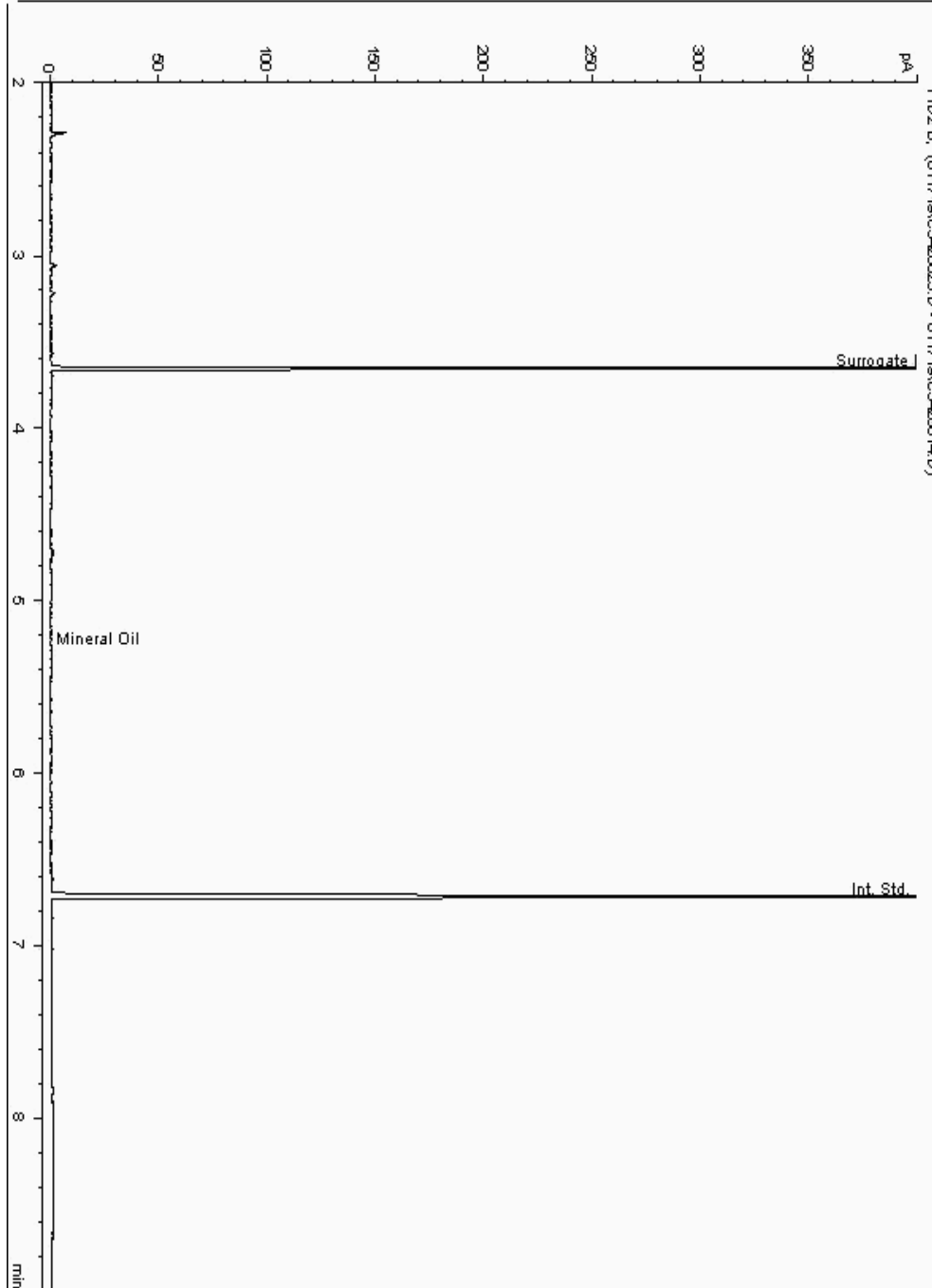
Analysis: Mineral Oil
19109709

Sample No :
Sample ID : BH222

19,109,709Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947122-
Date Acquired : 17/01/2019 16:27:34 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

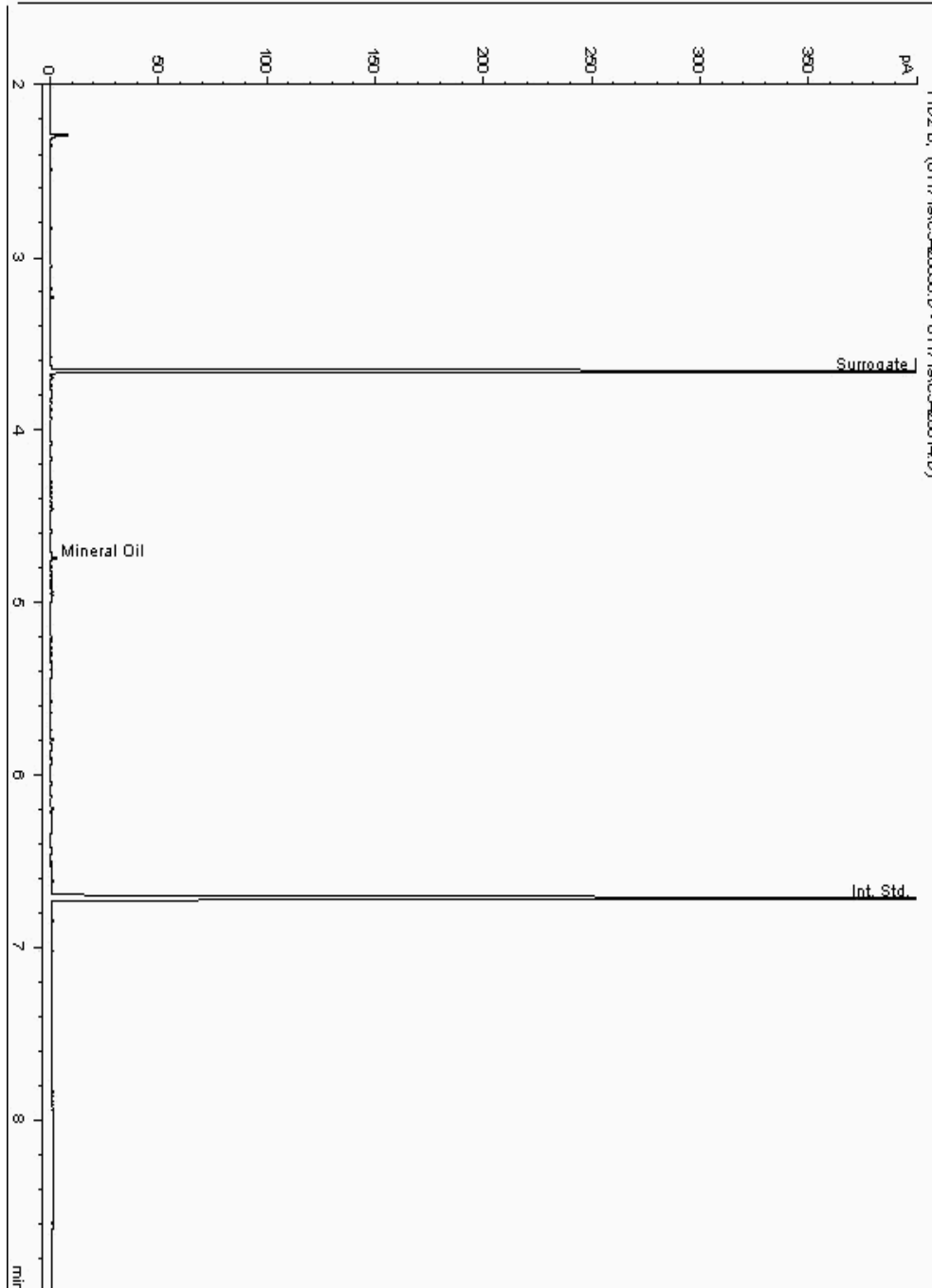
Analysis: Mineral Oil
19109753

Sample No :
Sample ID : BH222

19,109,753Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947198-
Date Acquired : 17/01/2019 20:34:39 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

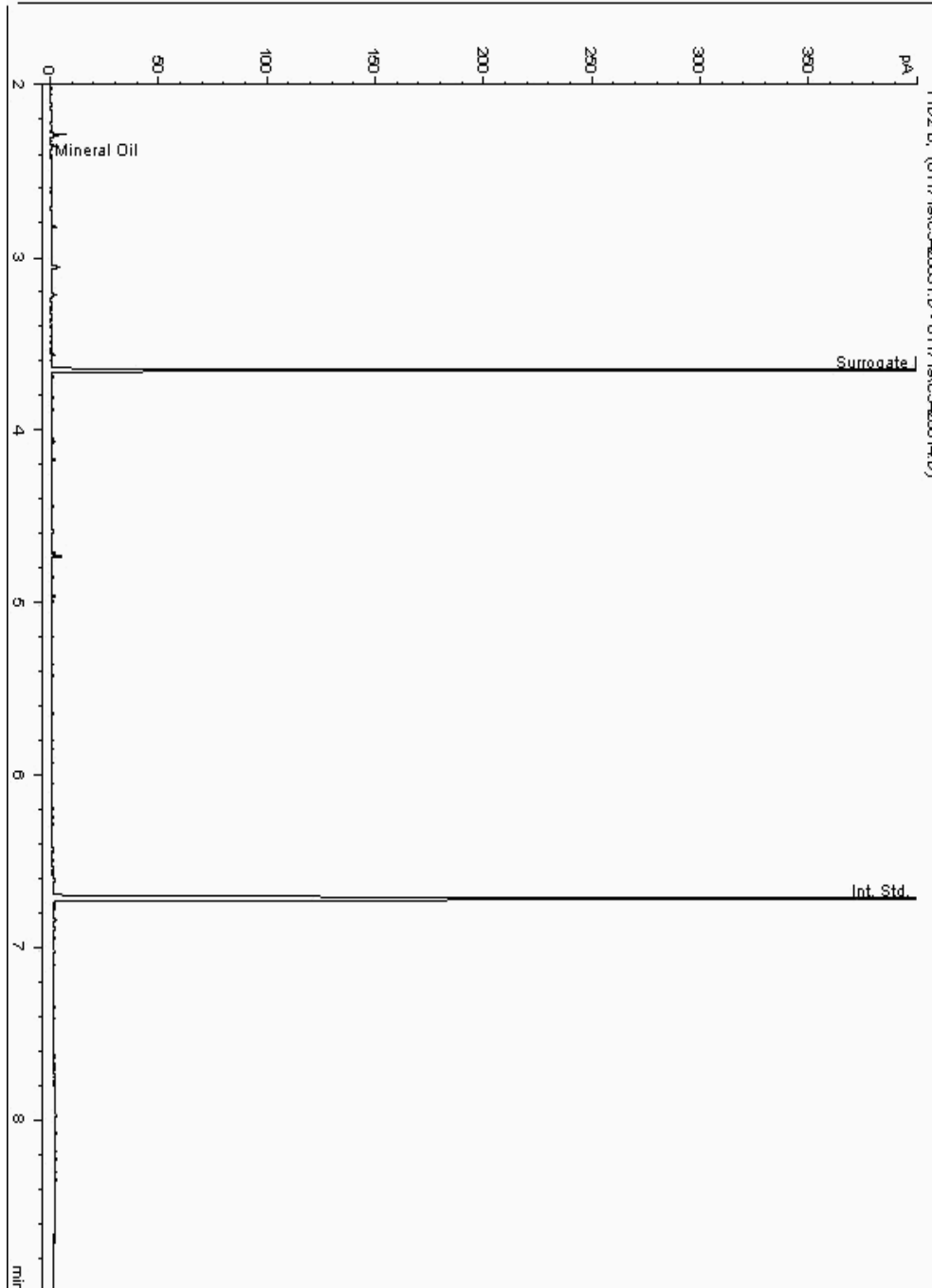
Analysis: Mineral Oil
19109771

Sample No :
Sample ID : BH223

19,109,771 Depth : 0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946756-
Date Acquired : 17/01/2019 18:58:19 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

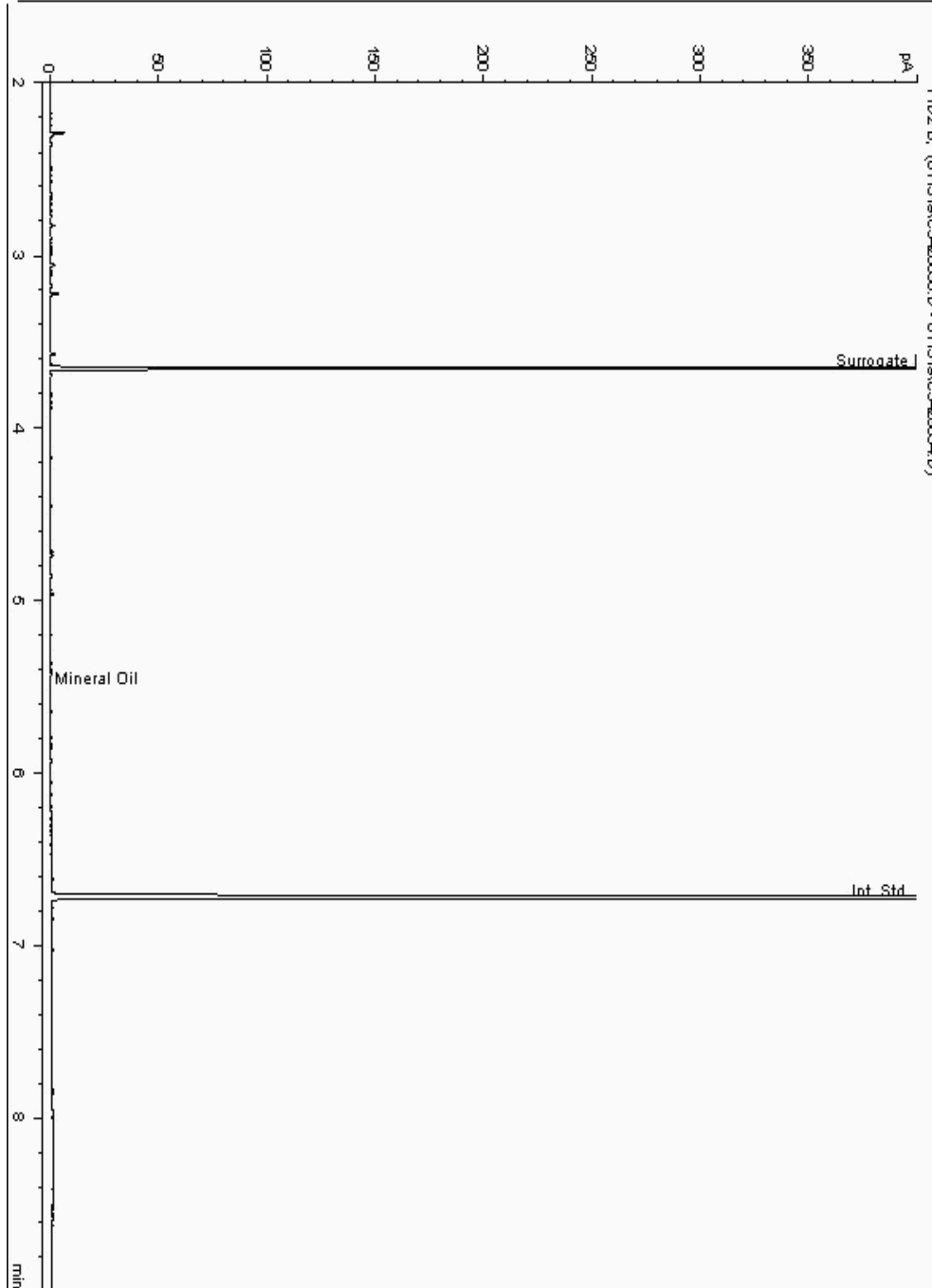
Analysis: Mineral Oil
19109821

Sample No :
Sample ID : BH218

19,109,821 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948280-
Date Acquired : 15/01/2019 23:52:51 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

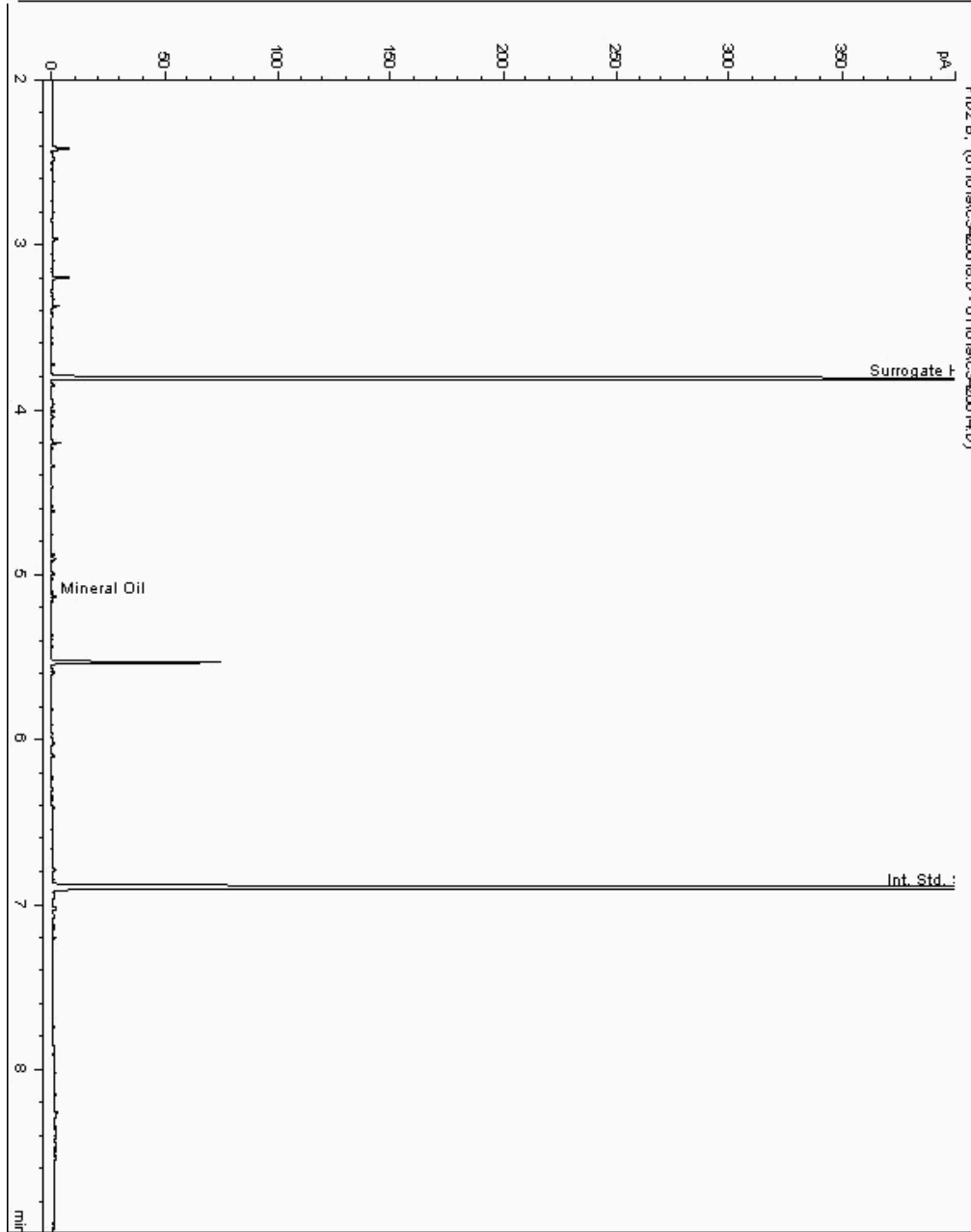
Analysis: Mineral Oil
19109899

Sample No :
Sample ID : BH218

19,109,899Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948254-
Date Acquired : 16/01/19 15:20:52 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

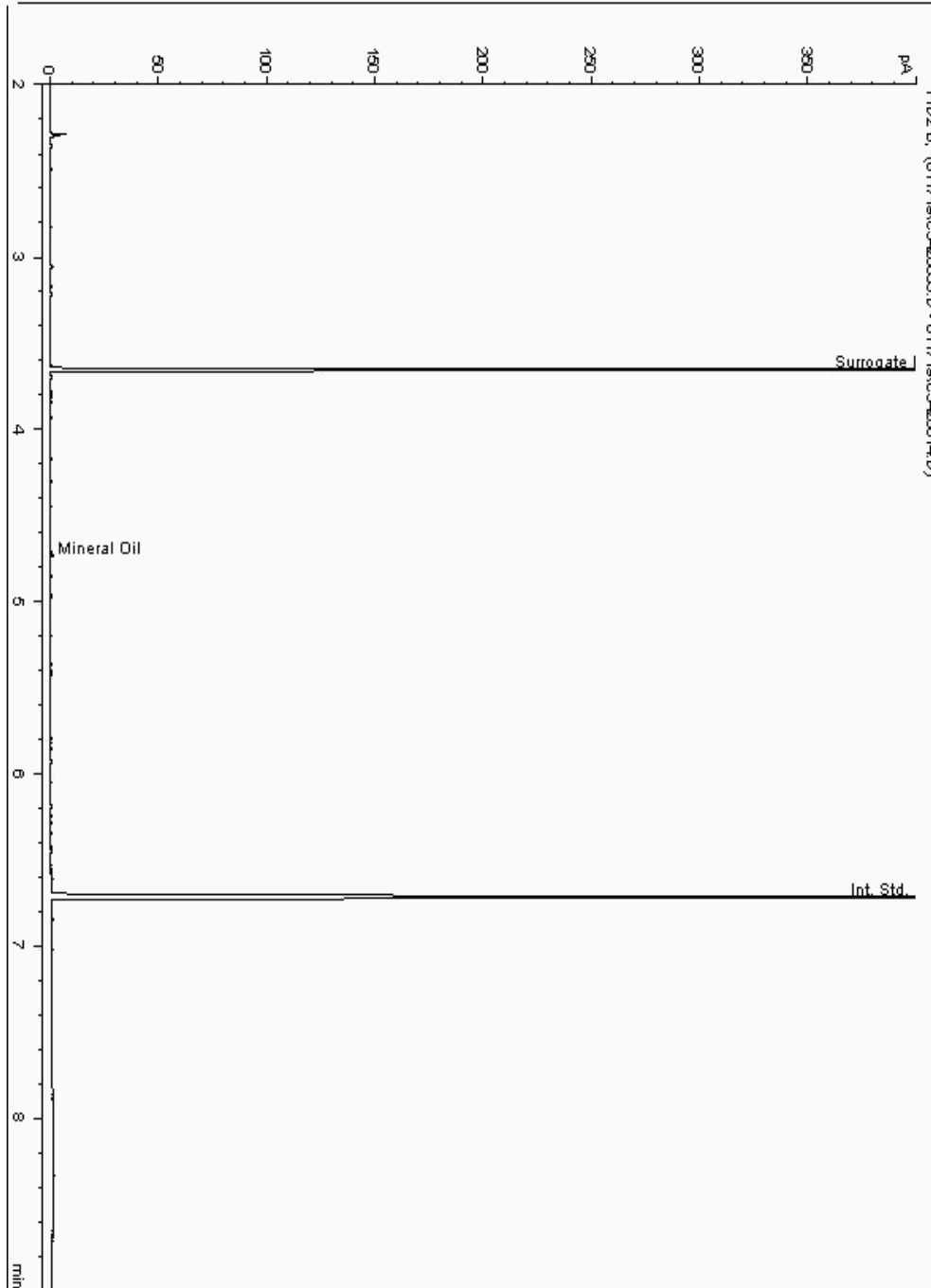
Analysis: Mineral Oil
19110030

Sample No :
Sample ID : BH223

19,110,030Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946643-
Date Acquired : 17/01/2019 20:13:38 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

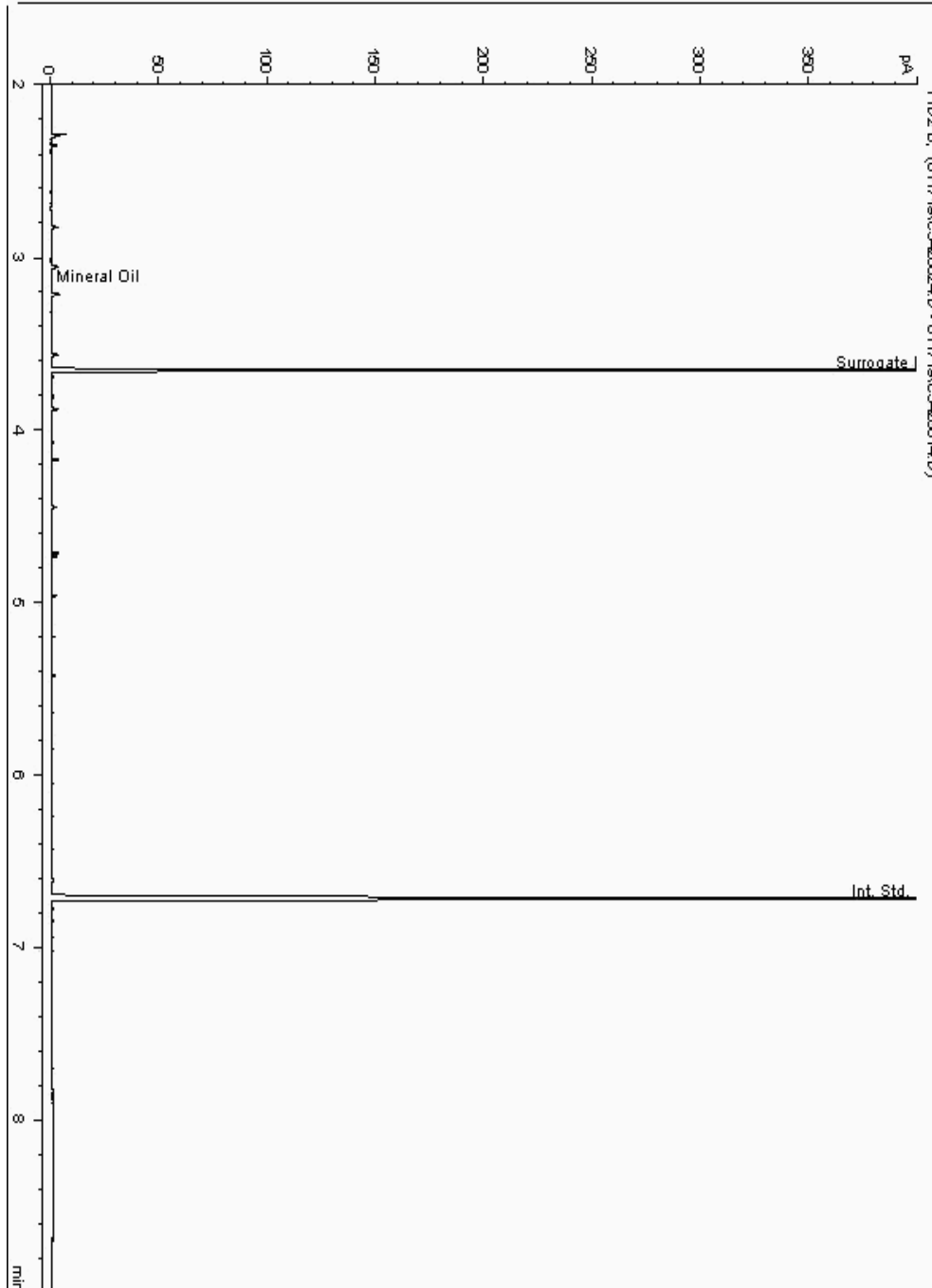
Analysis: Mineral Oil
19110206

Sample No :
Sample ID : BH222

19,110,206Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947064-
Date Acquired : 17/01/2019 16:48:27 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

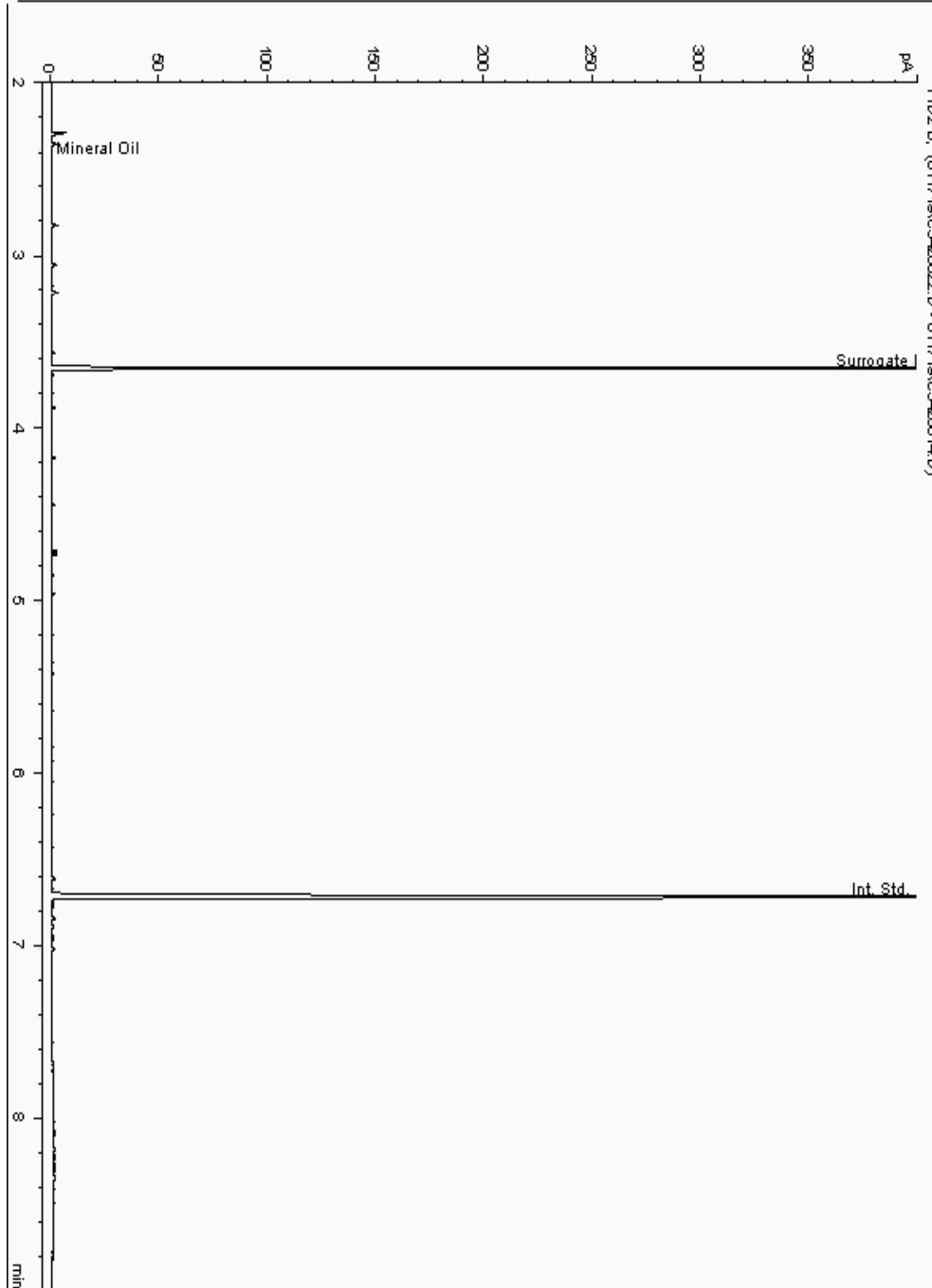
Analysis: Mineral Oil
19110215

Sample No :
Sample ID : BH219

19,110,215 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947041-
Date Acquired : 17/01/2019 16:07:05 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

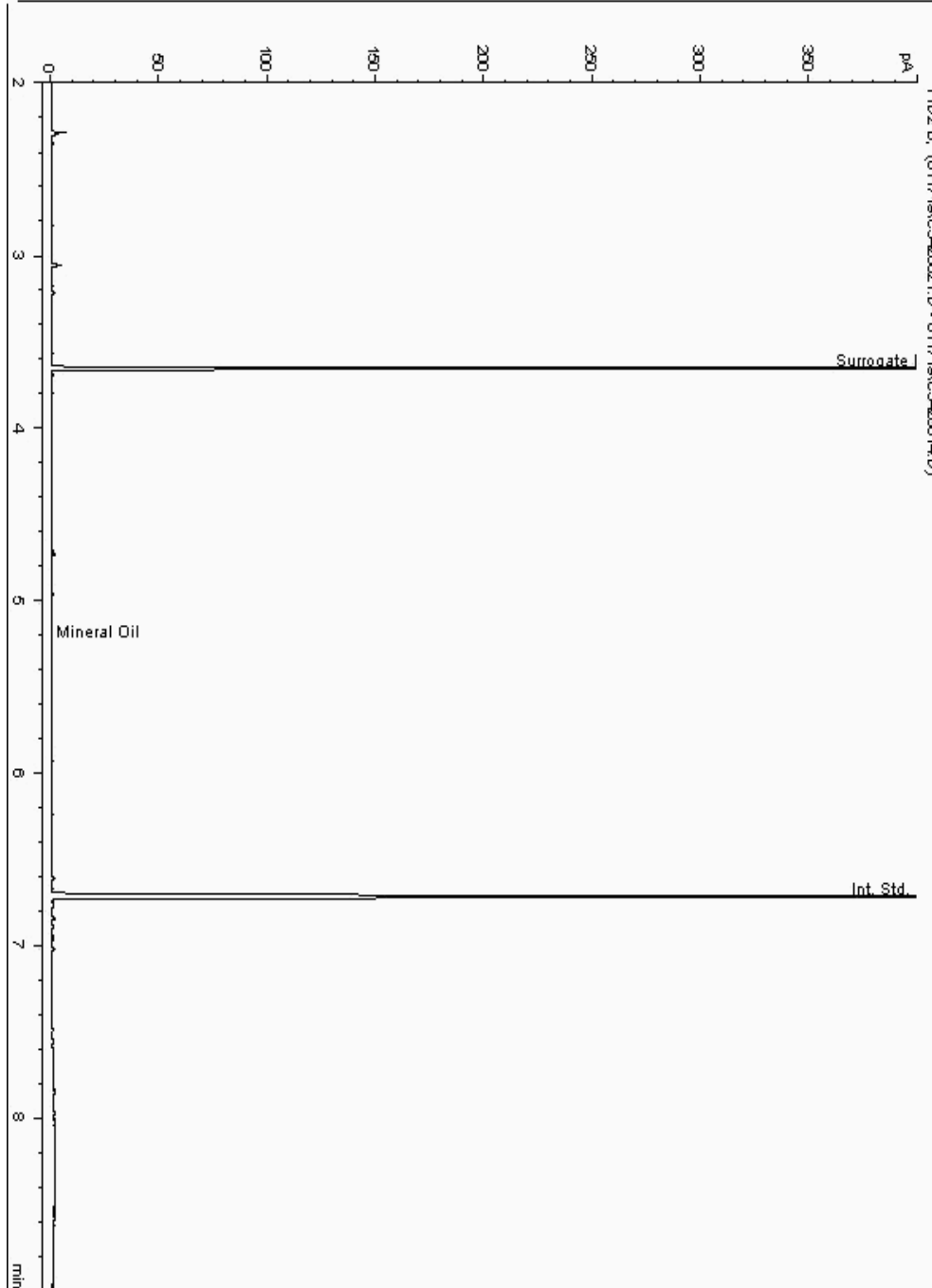
Analysis: Mineral Oil
19110311

Sample No :
Sample ID : BH219

19,110,311 Depth : 10.50 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946780-
Date Acquired : 17/01/2019 15:46:00 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

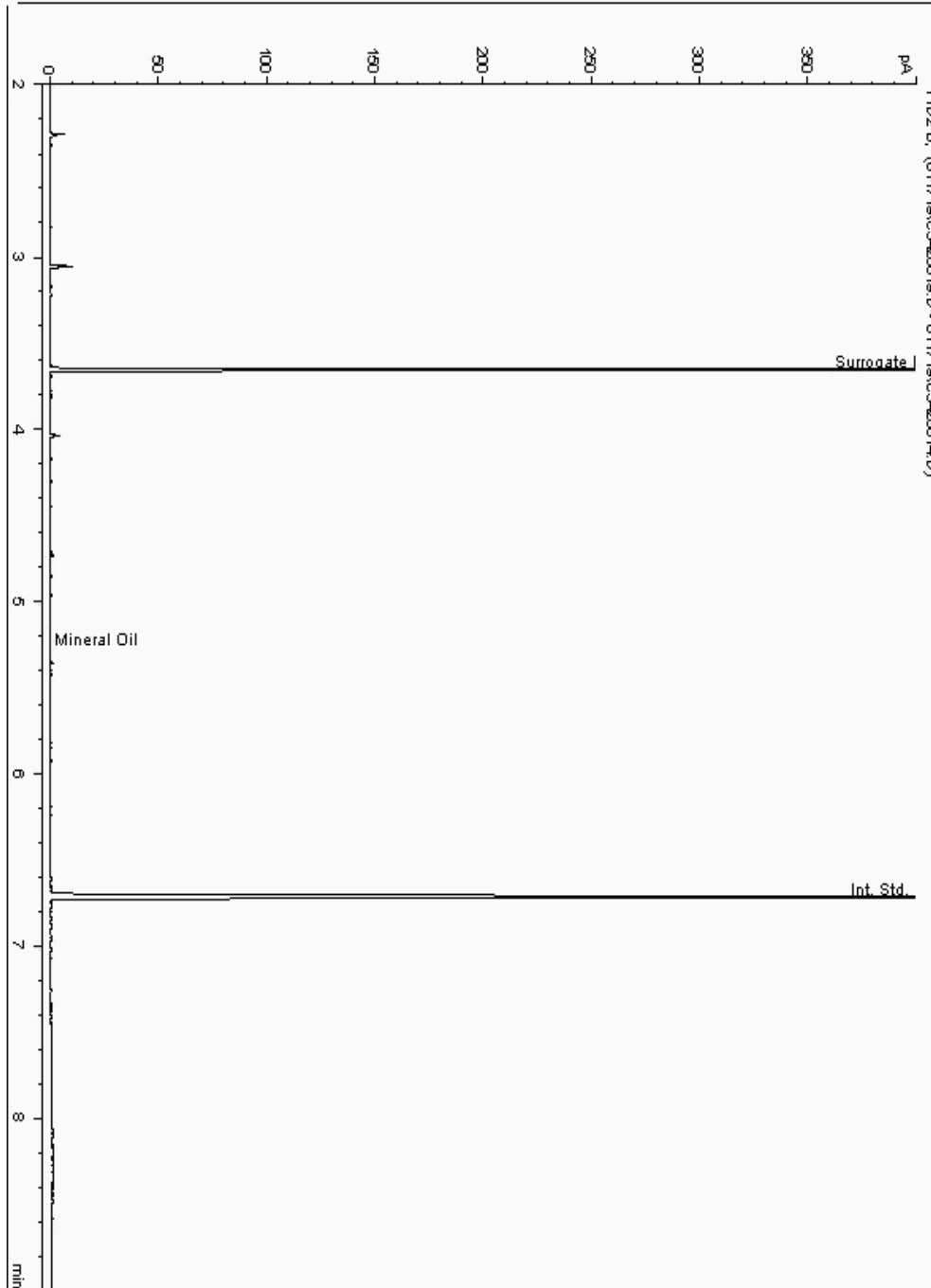
Analysis: Mineral Oil
19110335

Sample No :
Sample ID : BH222

19,110,335Depth : 7.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947175-
Date Acquired : 17/01/2019 15:04:11 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

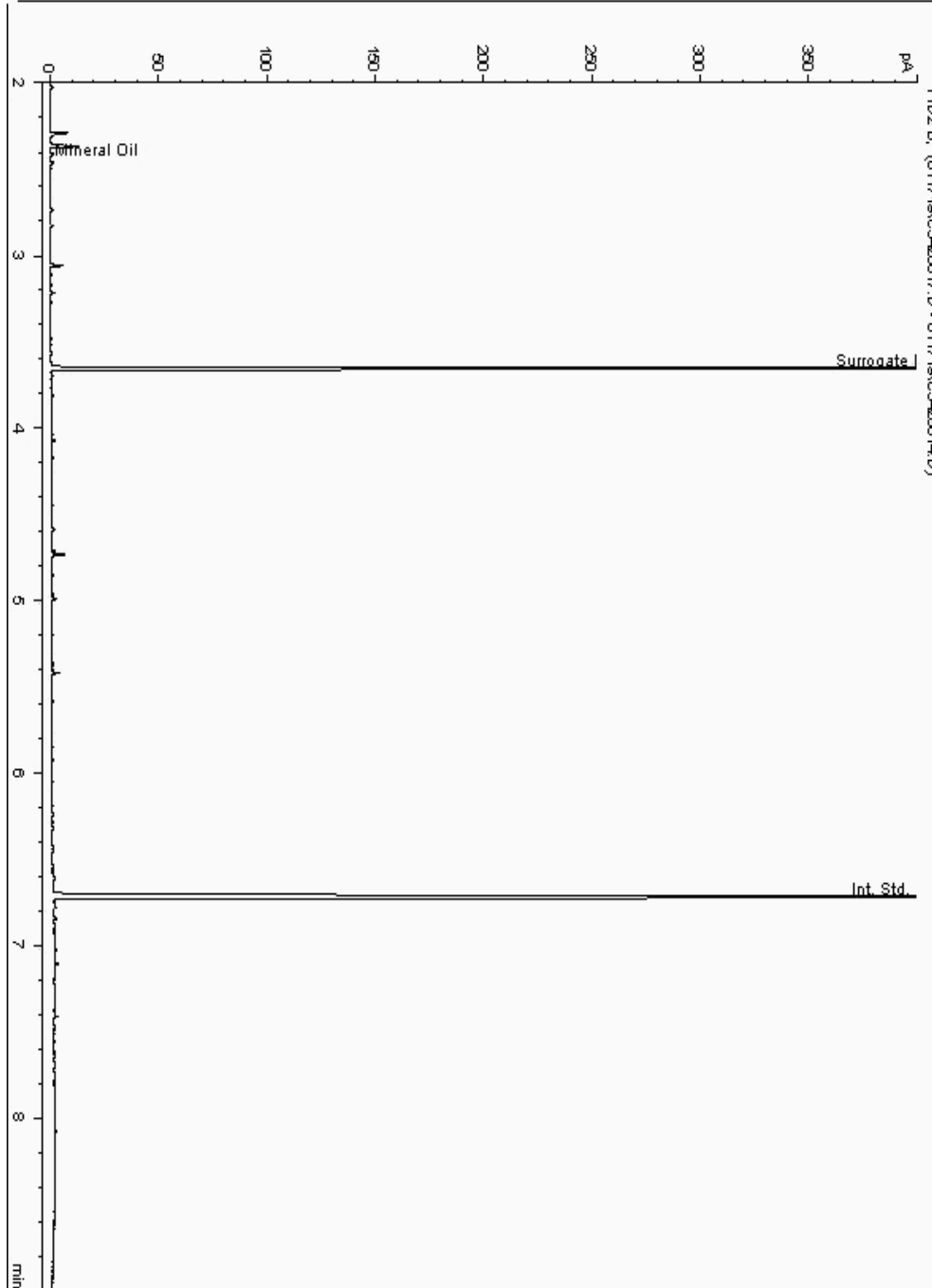
Analysis: Mineral Oil
19110409

Sample No :
Sample ID : BH223

19,110,409Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946665-
Date Acquired : 17/01/2019 14:30:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

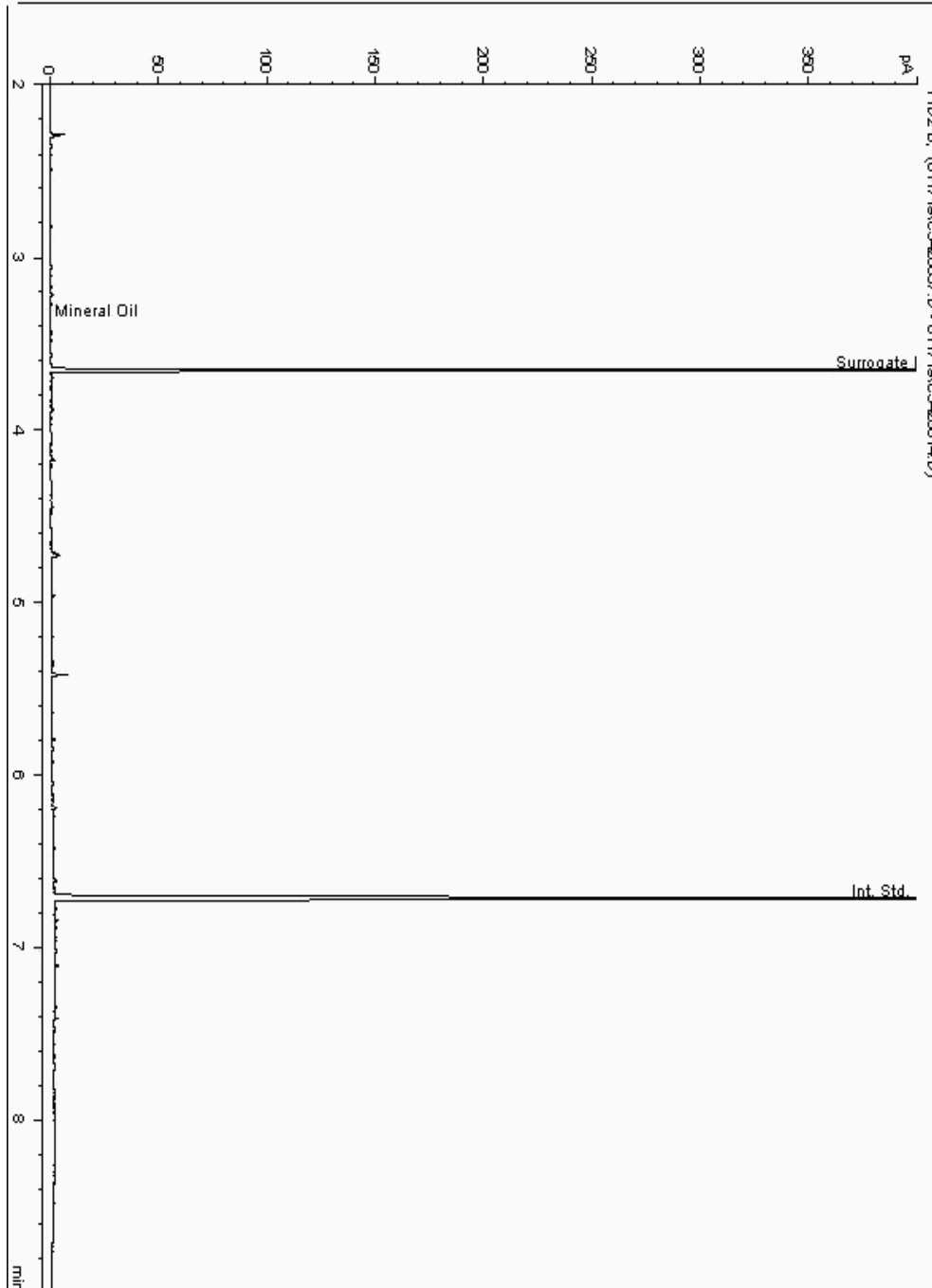
Analysis: Mineral Oil
19110414

Sample No :
Sample ID : BH219

19,110,414Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946904-
Date Acquired : 17/01/2019 20:55:20 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

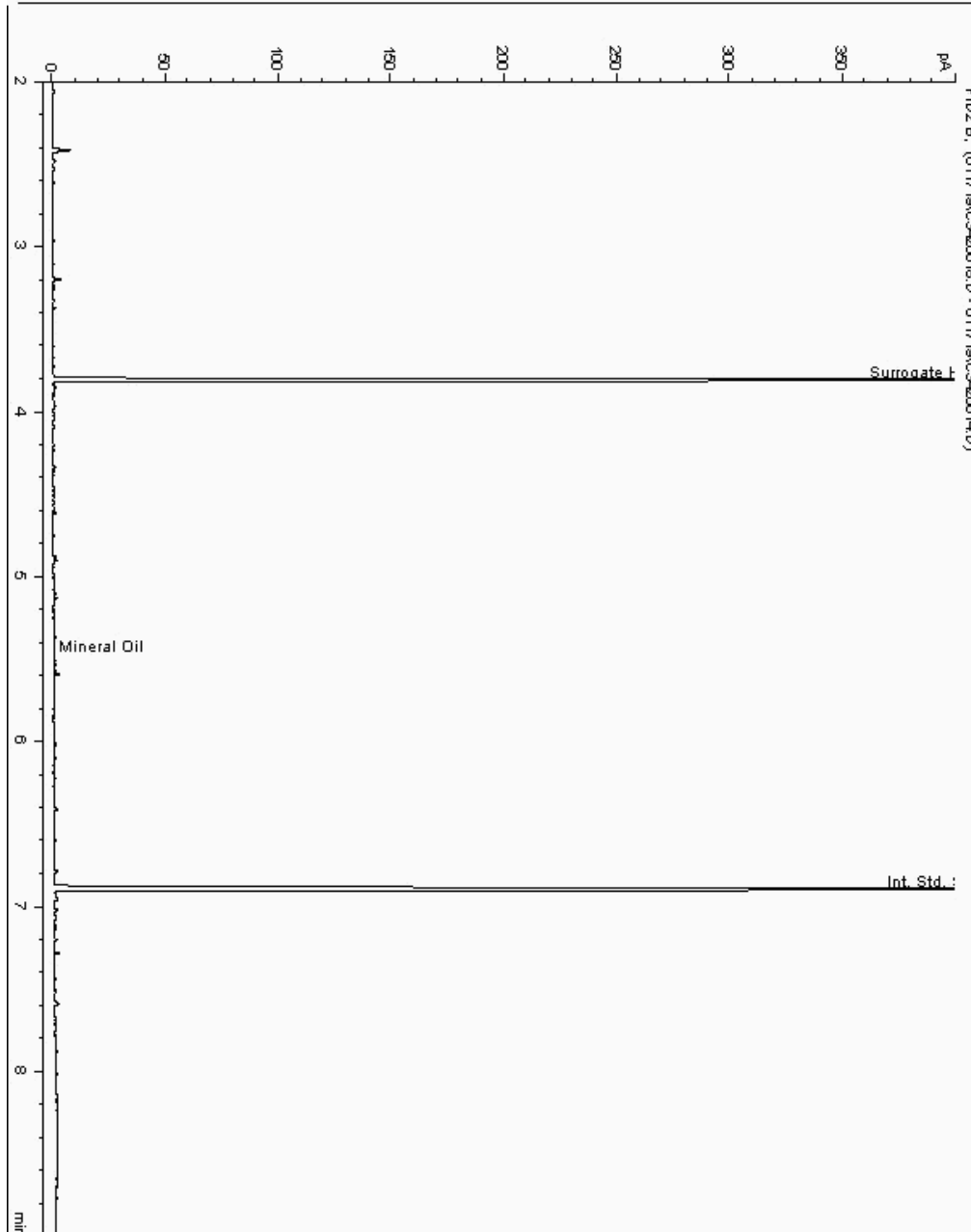
Analysis: Mineral Oil
19110443

Sample No :
Sample ID : BH222

19,110,443 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947306-
Date Acquired : 17/01/19 15:21:46 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

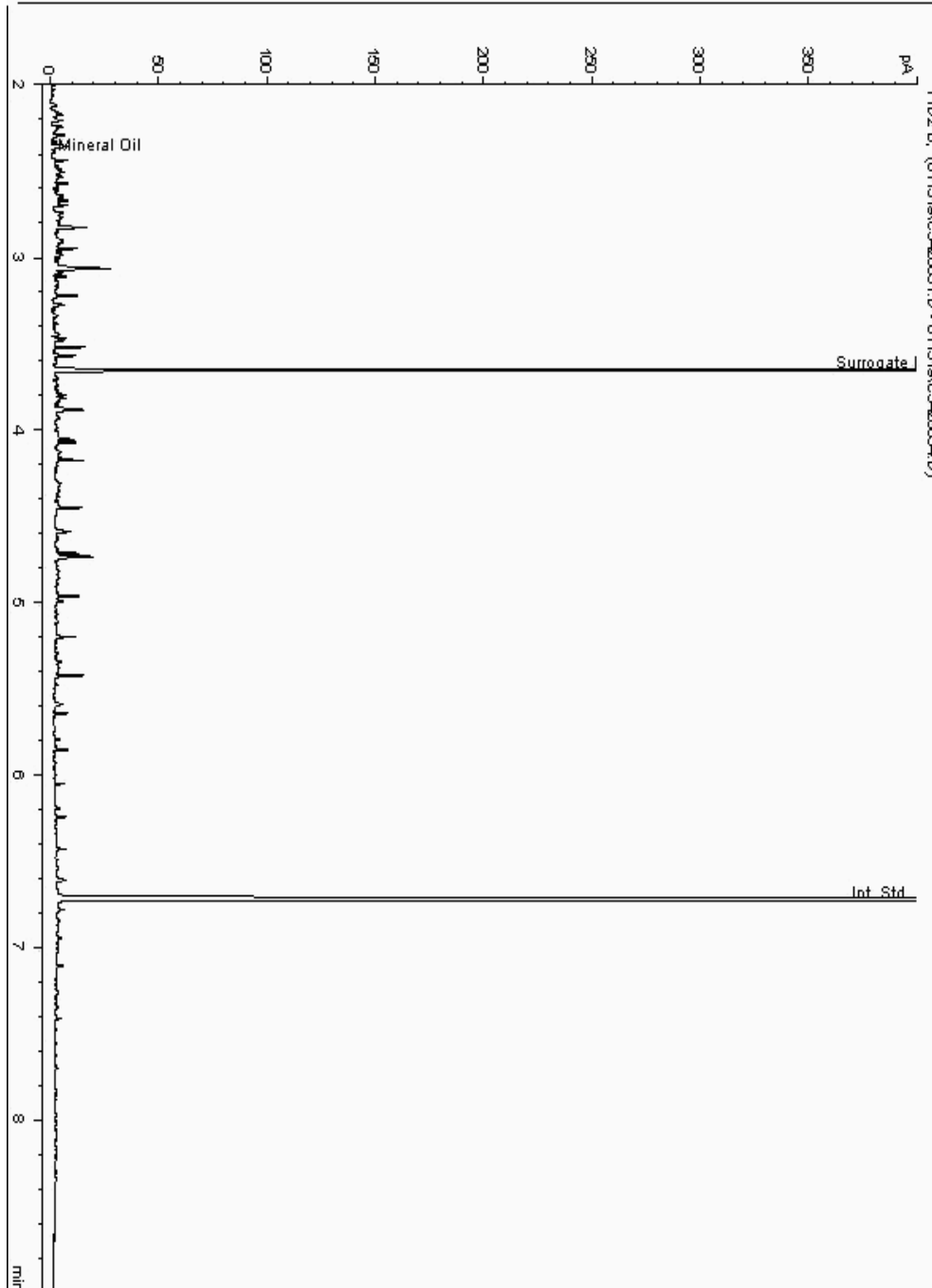
Analysis: Mineral Oil
19110447

Sample No :
Sample ID : BH224

19,110,447Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947858-
Date Acquired : 16/01/2019 00:13:50 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

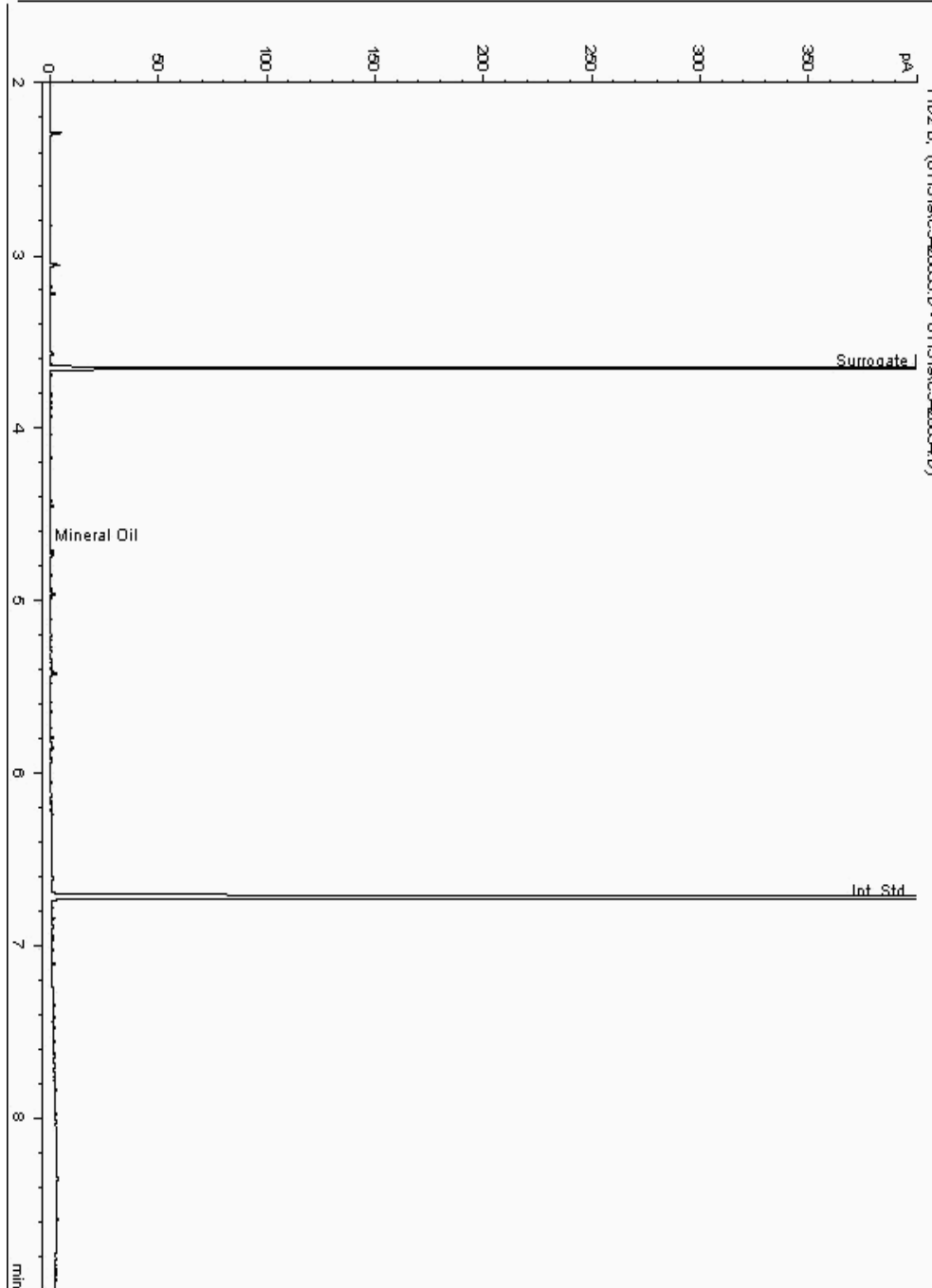
Analysis: Mineral Oil
19110472

Sample No :
Sample ID : BH235

19,110,472Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947695-
Date Acquired : 16/01/2019 01:38:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

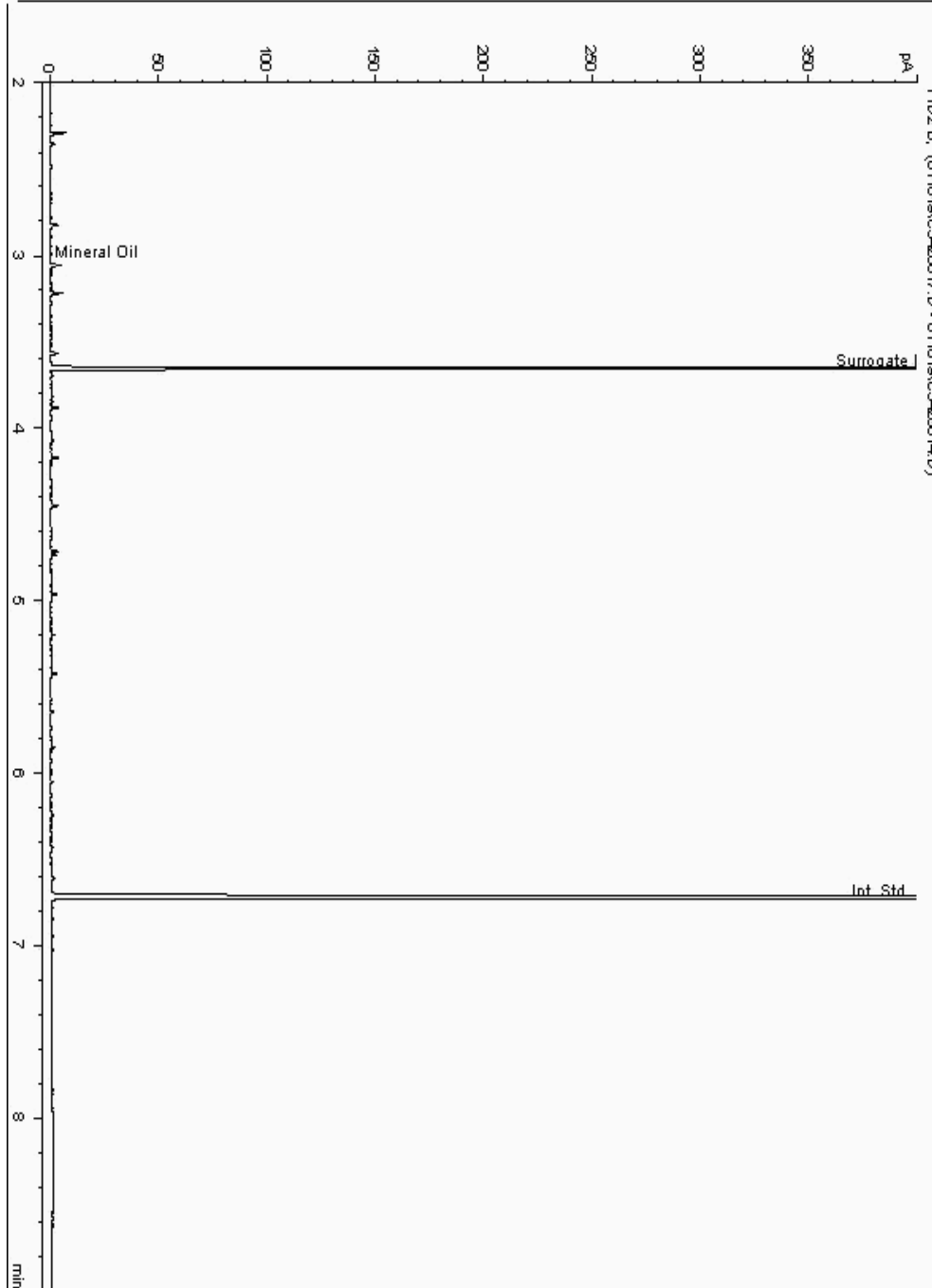
Analysis: Mineral Oil
19110568

Sample No :
Sample ID : BH223

19,110,568Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946527-
Date Acquired : 16/01/2019 14:03:36 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

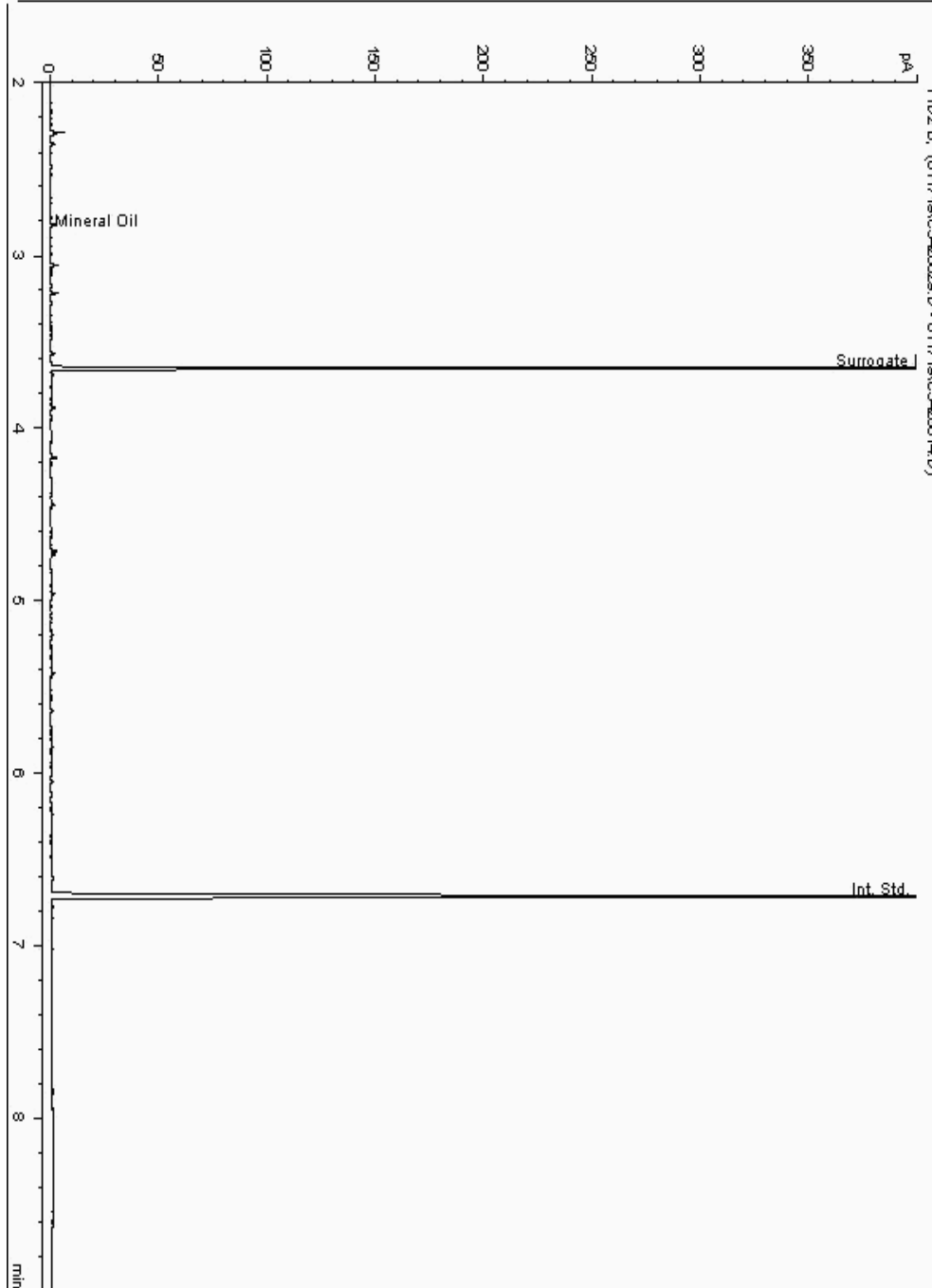
Analysis: Mineral Oil
19110671

Sample No :
Sample ID : BH223

19,110,671 Depth : 15.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946490-
Date Acquired : 17/01/2019 18:16:36 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

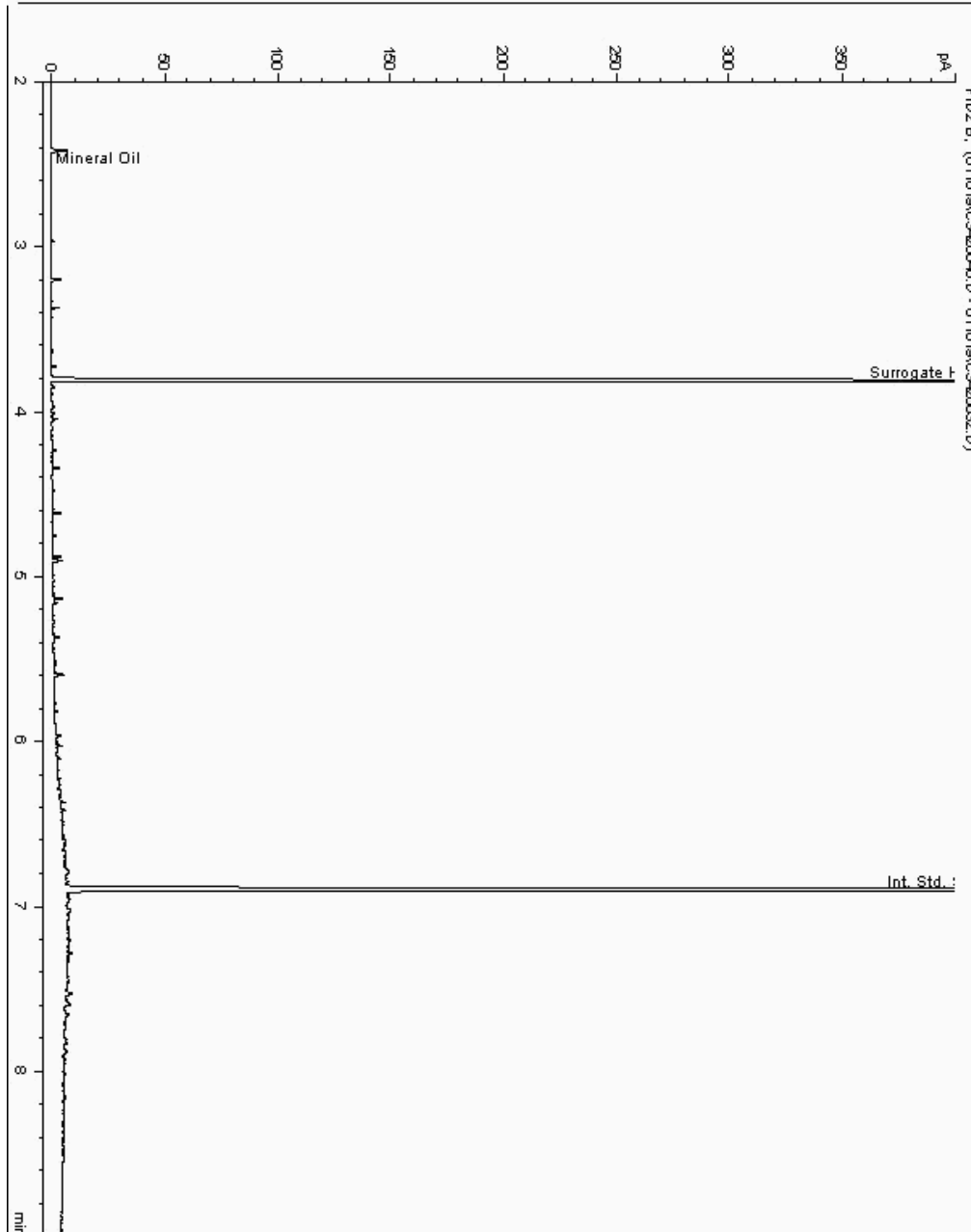
Analysis: Mineral Oil
19110970

Sample No :
Sample ID : BH222

19,110,970Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947368-
Date Acquired : 16/01/19 22:16:16 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

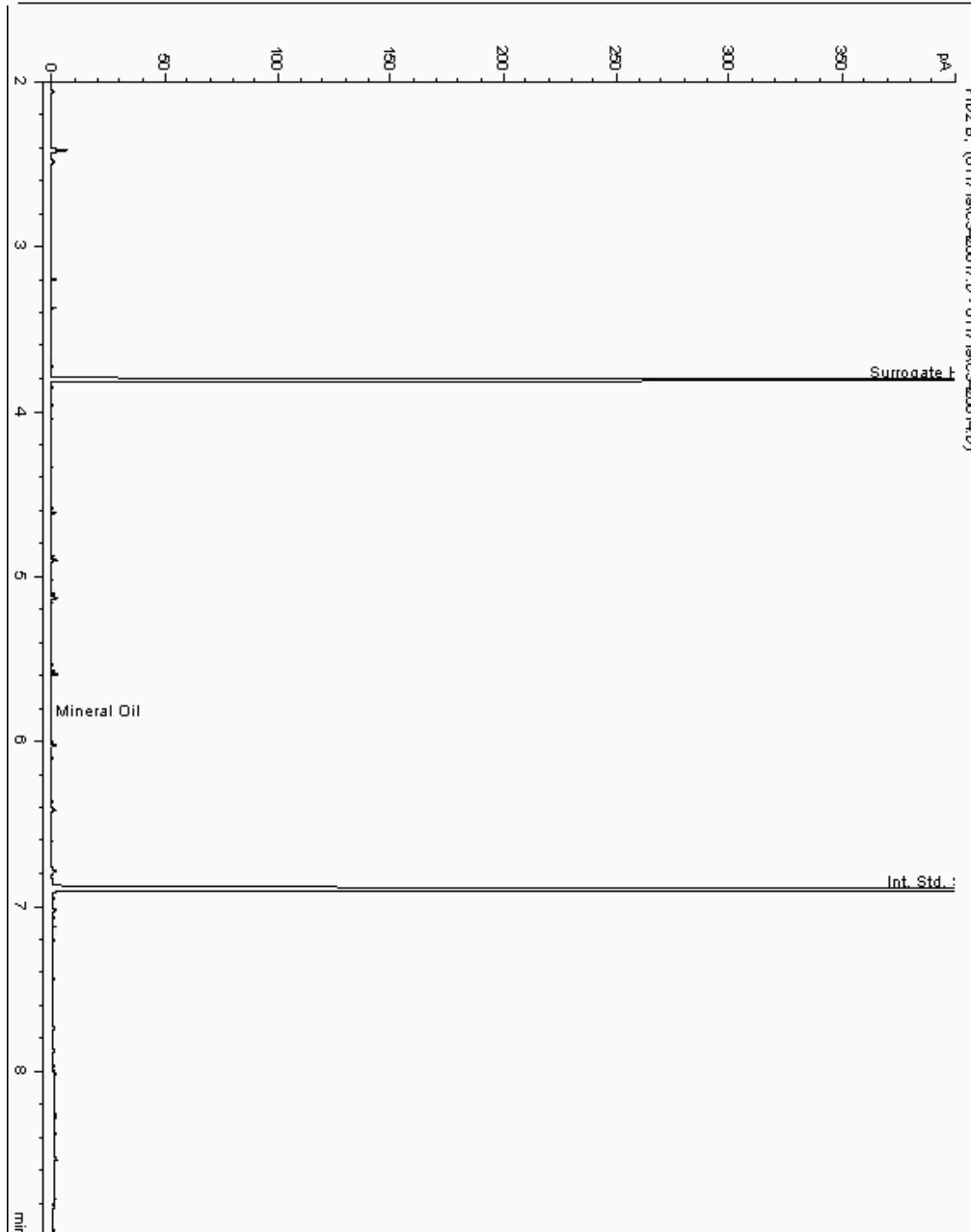
Analysis: Mineral Oil
19111020

Sample No :
Sample ID : BH223

19,111,020Depth :7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946621-
Date Acquired : 17/01/19 15:01:24 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

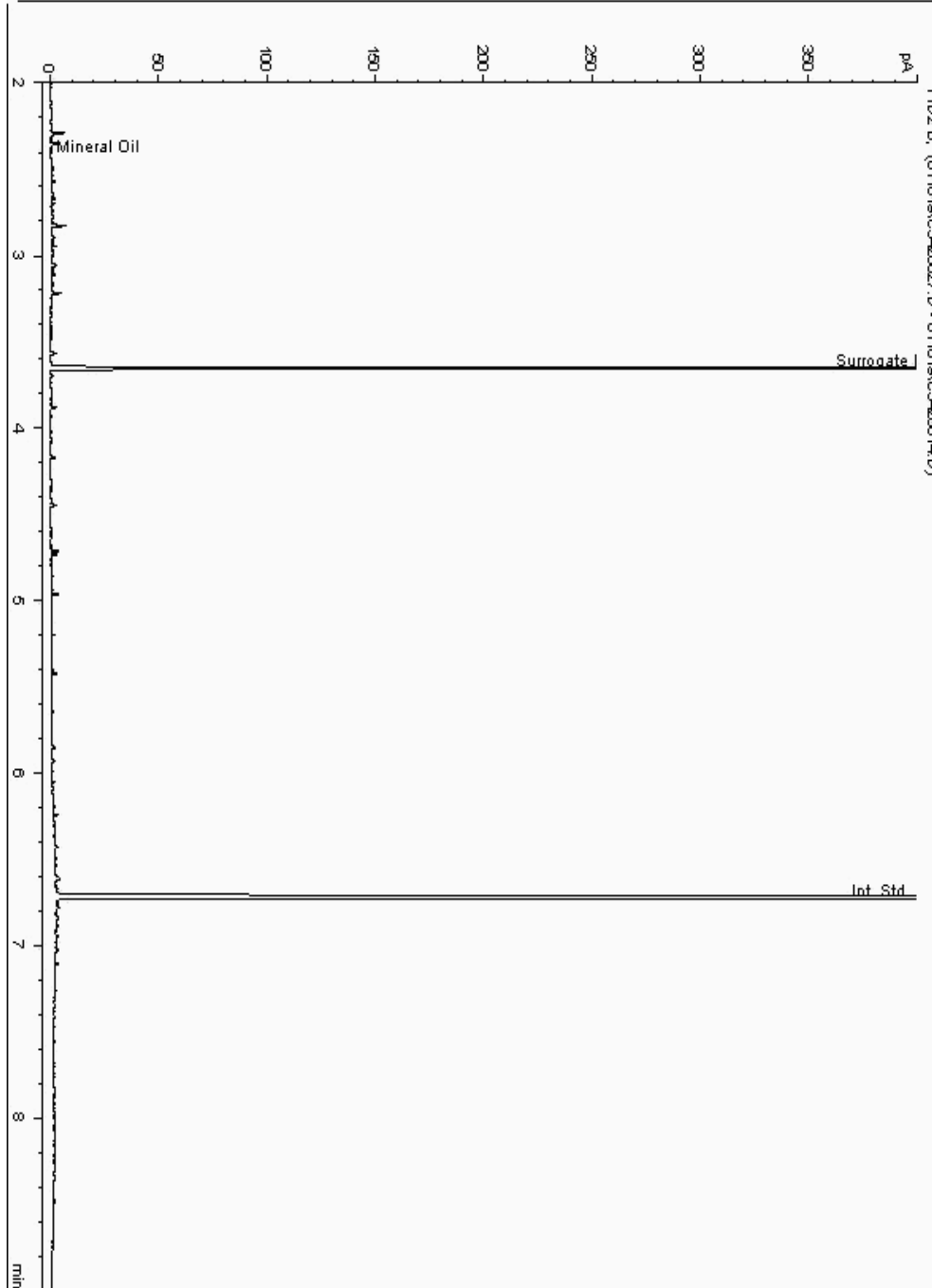
Analysis: Mineral Oil
19111223

Sample No :
Sample ID : BH219

19,111,223Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946995-
Date Acquired : 16/01/2019 17:01:02 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

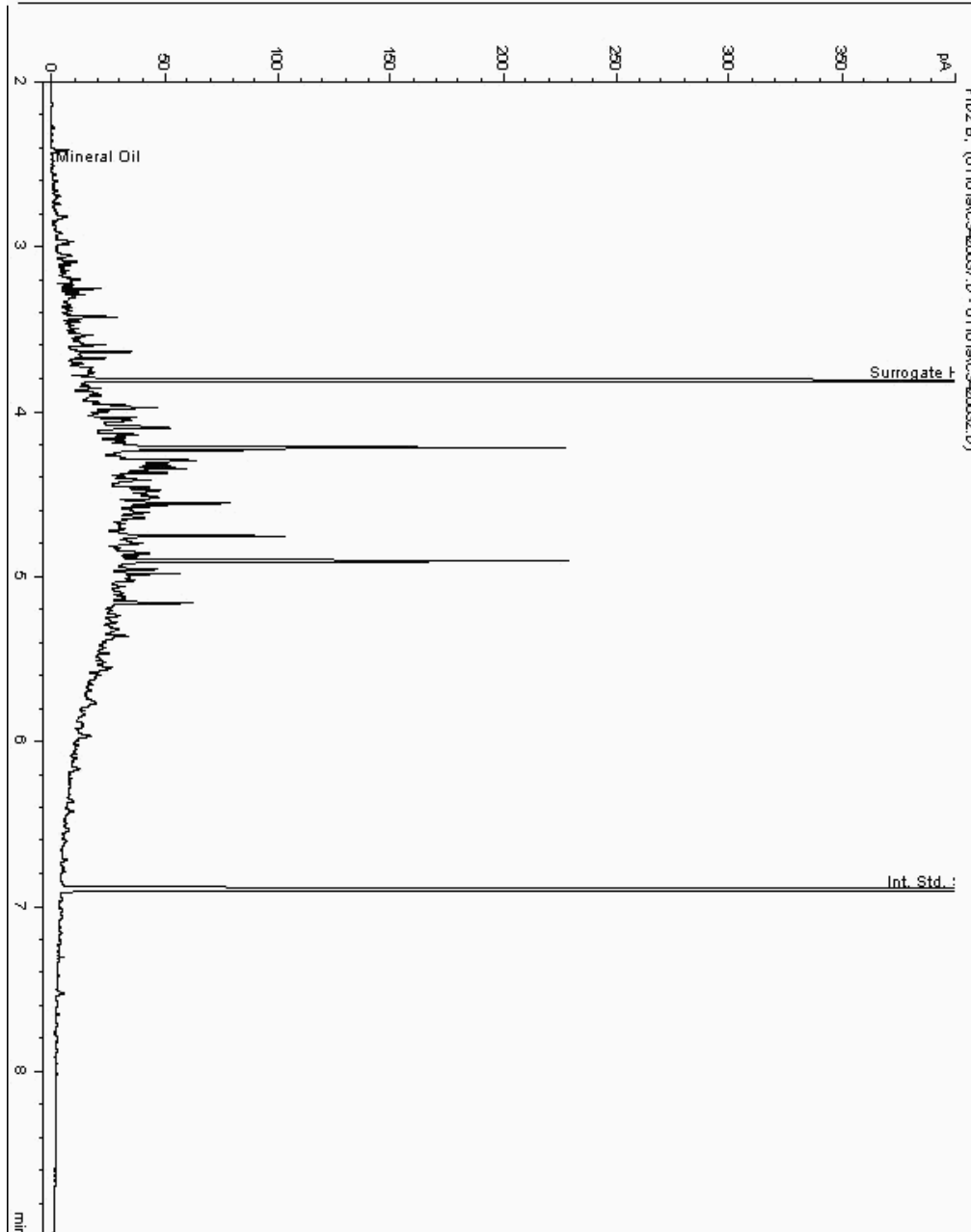
Analysis: Mineral Oil
19111232

Sample No :
Sample ID : BH224

19,111,232Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947897-
Date Acquired : 16/01/19 21:23:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

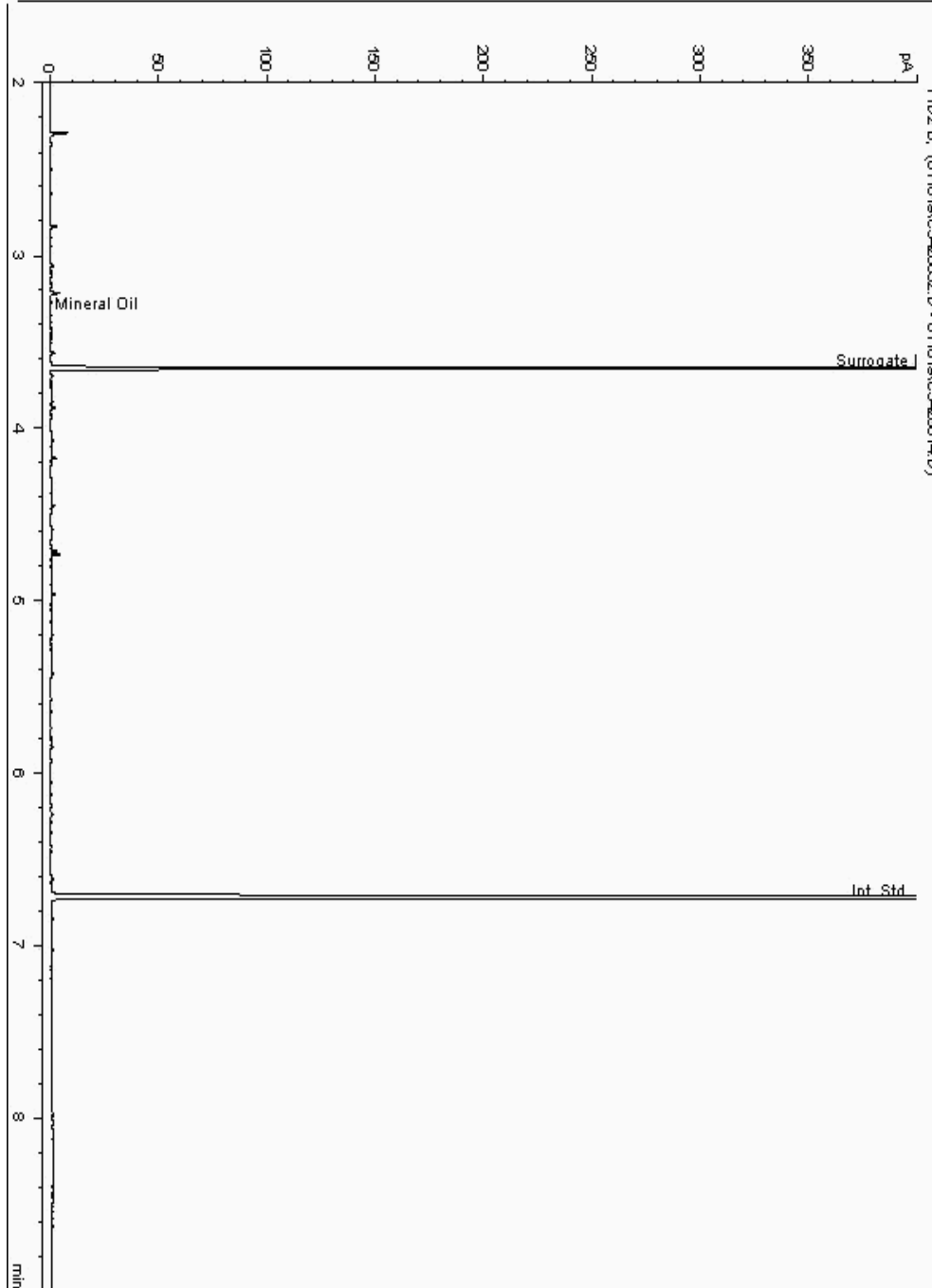
Analysis: Mineral Oil
19111251

Sample No :
Sample ID : BH222

19,111,251 Depth : 13.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947099-
Date Acquired : 16/01/2019 18:37:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

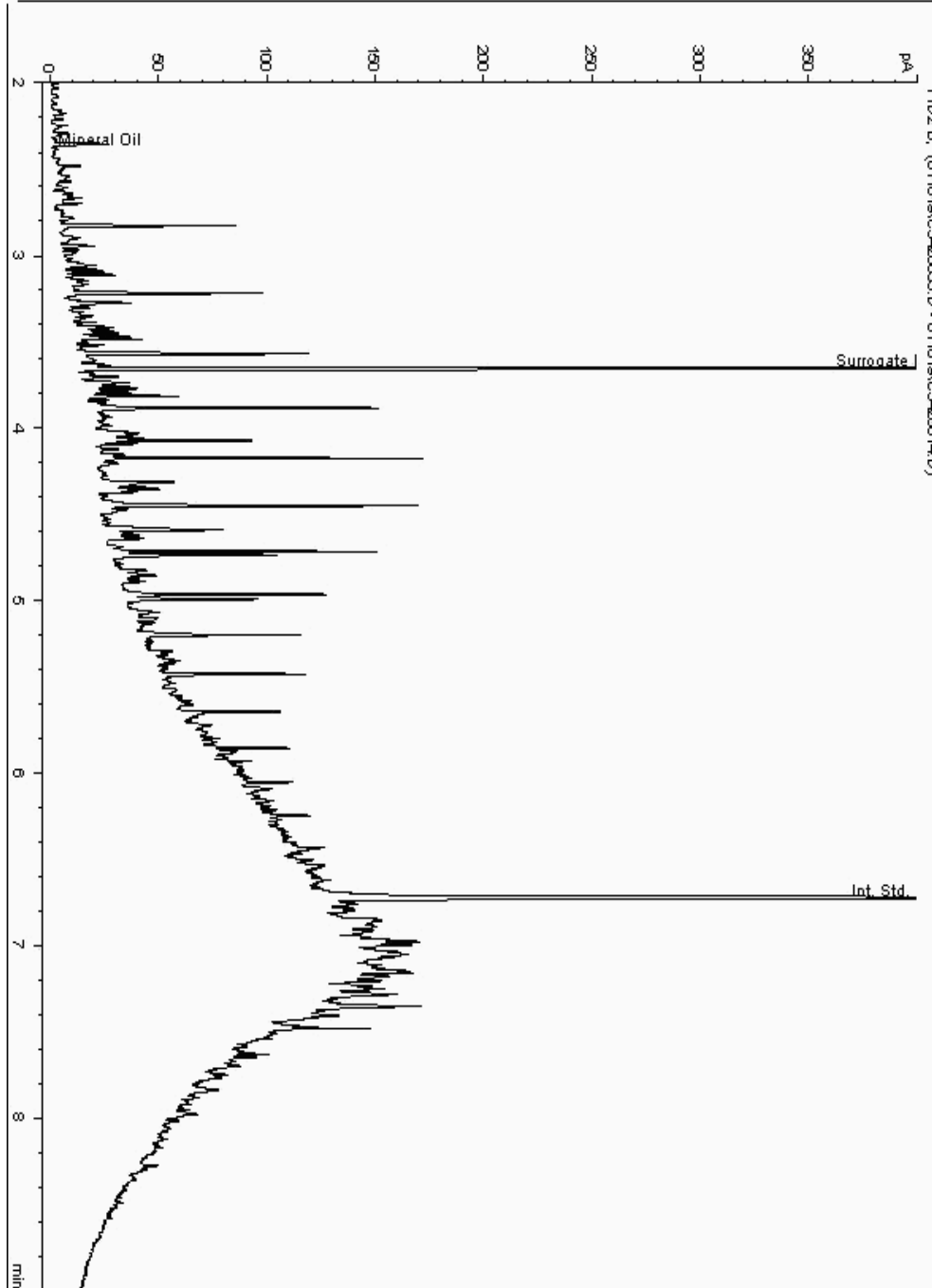
Analysis: Mineral Oil
19111401

Sample No :
Sample ID : BH219

19,111,401Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946927-
Date Acquired : 16/01/2019 19:33:37 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

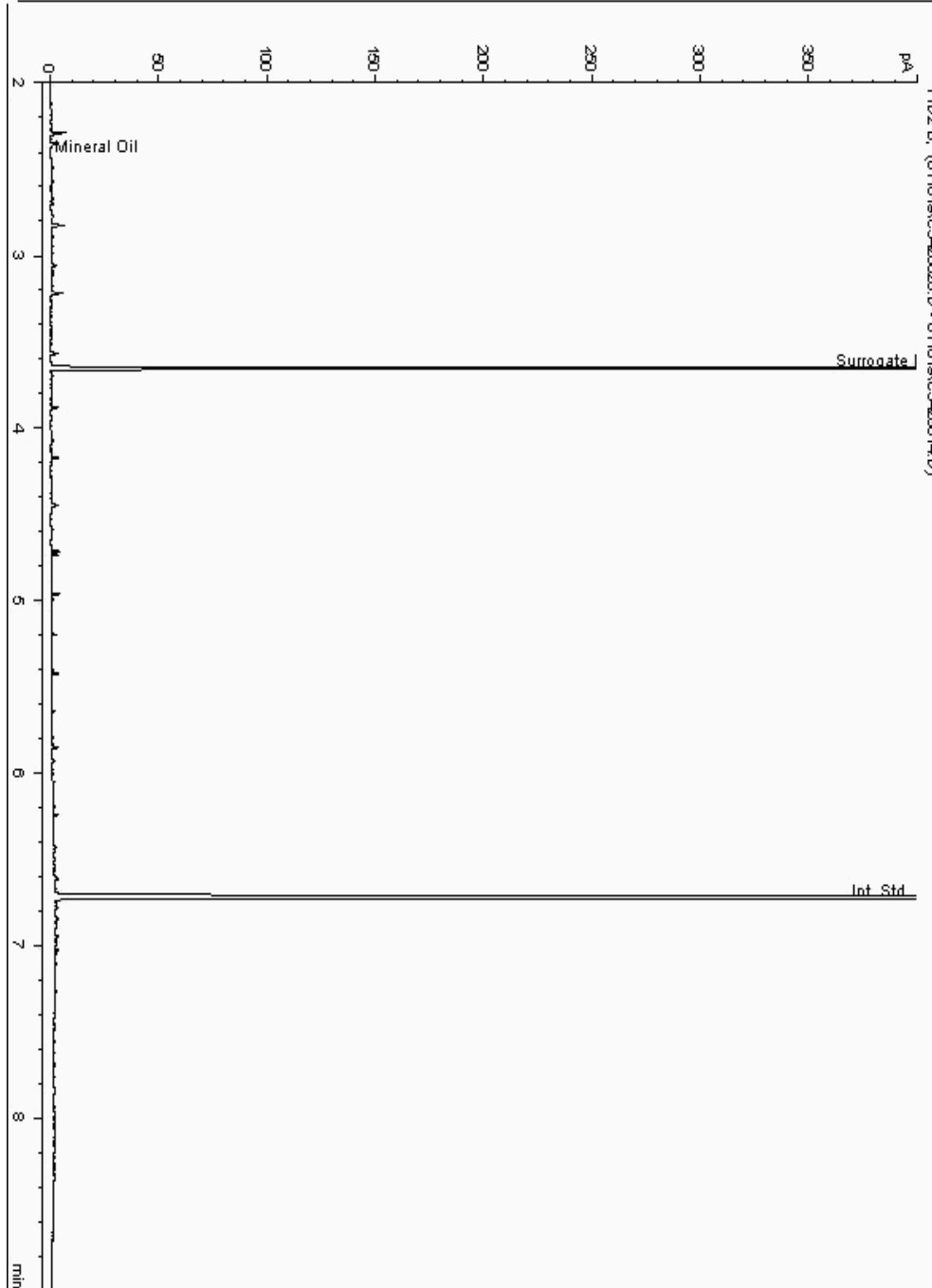
Analysis: Mineral Oil
19111445

Sample No :
Sample ID : BH219

19,111,445Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947018-
Date Acquired : 16/01/2019 17:22:06 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

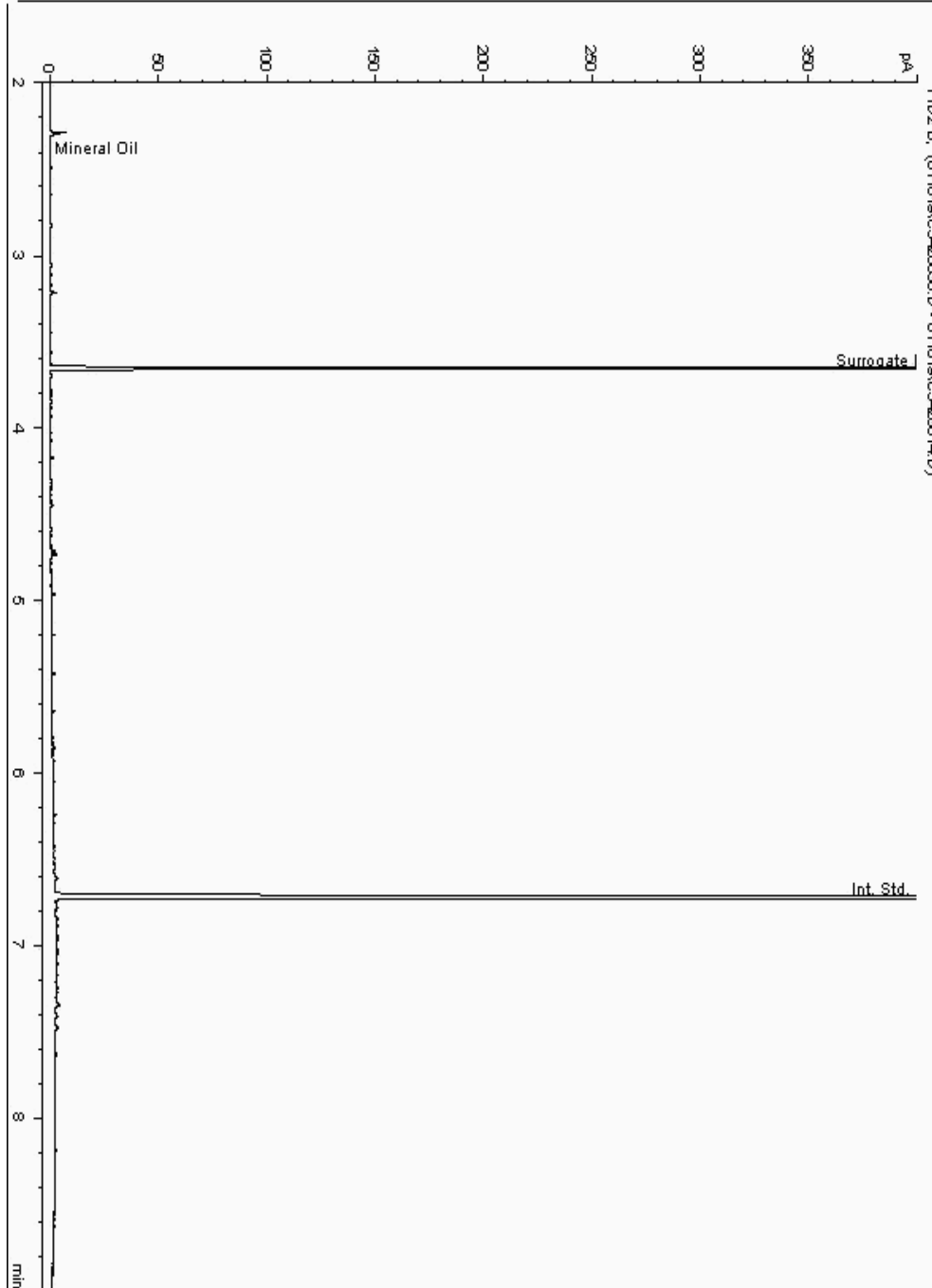
Analysis: Mineral Oil
19111470

Sample No :
Sample ID : BH219

19,111,470Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946950-
Date Acquired : 16/01/2019 18:04:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

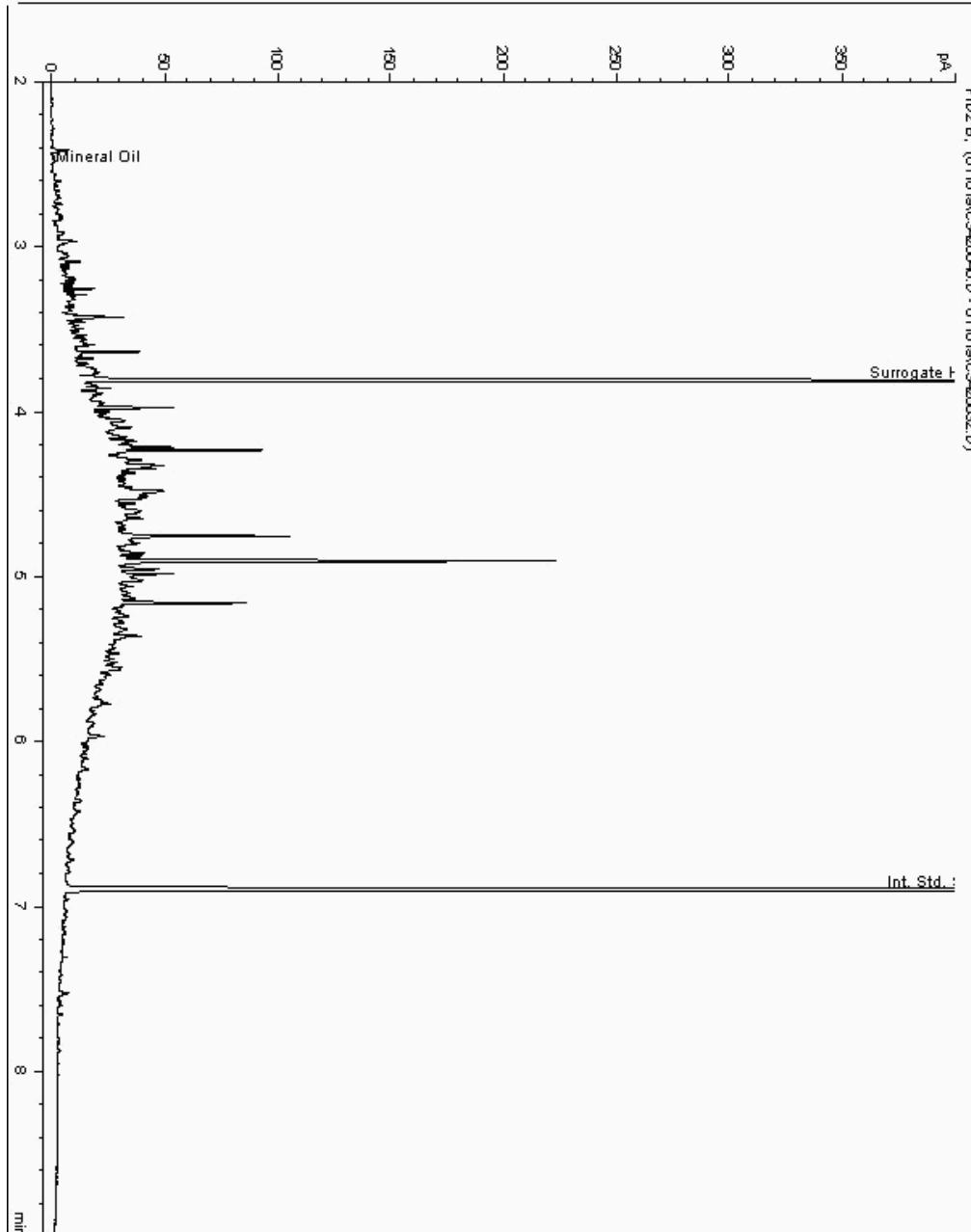
Analysis: Mineral Oil
19111493

Sample No :
Sample ID : BH224

19,111,493Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947951-
Date Acquired : 17/01/19 00:10:22 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

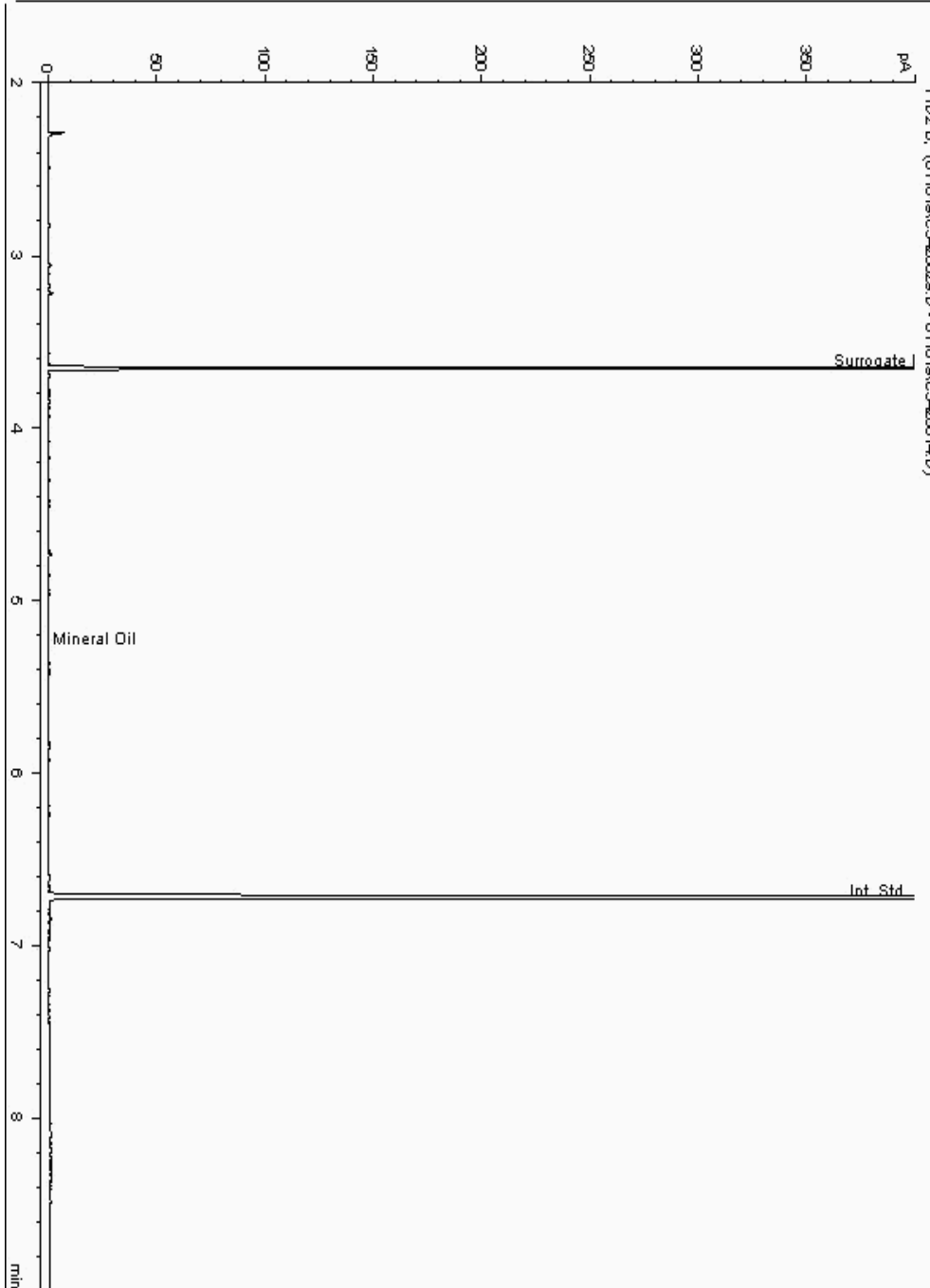
Analysis: Mineral Oil
19111549

Sample No :
Sample ID : BH223

19,111,549 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946549-
Date Acquired : 16/01/2019 17:43:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

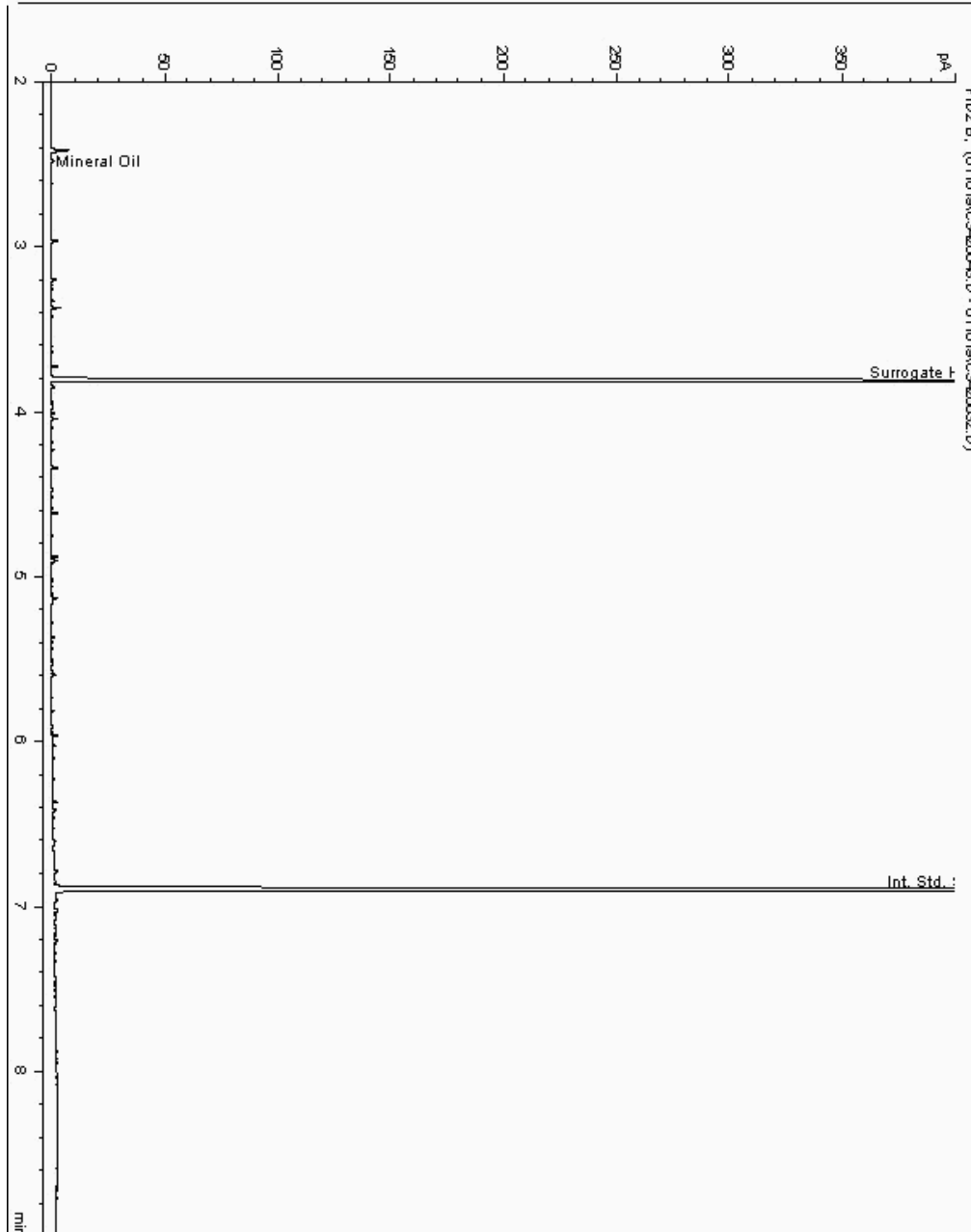
Analysis: Mineral Oil
19111593

Sample No :
Sample ID : BH235

19,111,593 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947437-
Date Acquired : 16/01/19 23:09:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

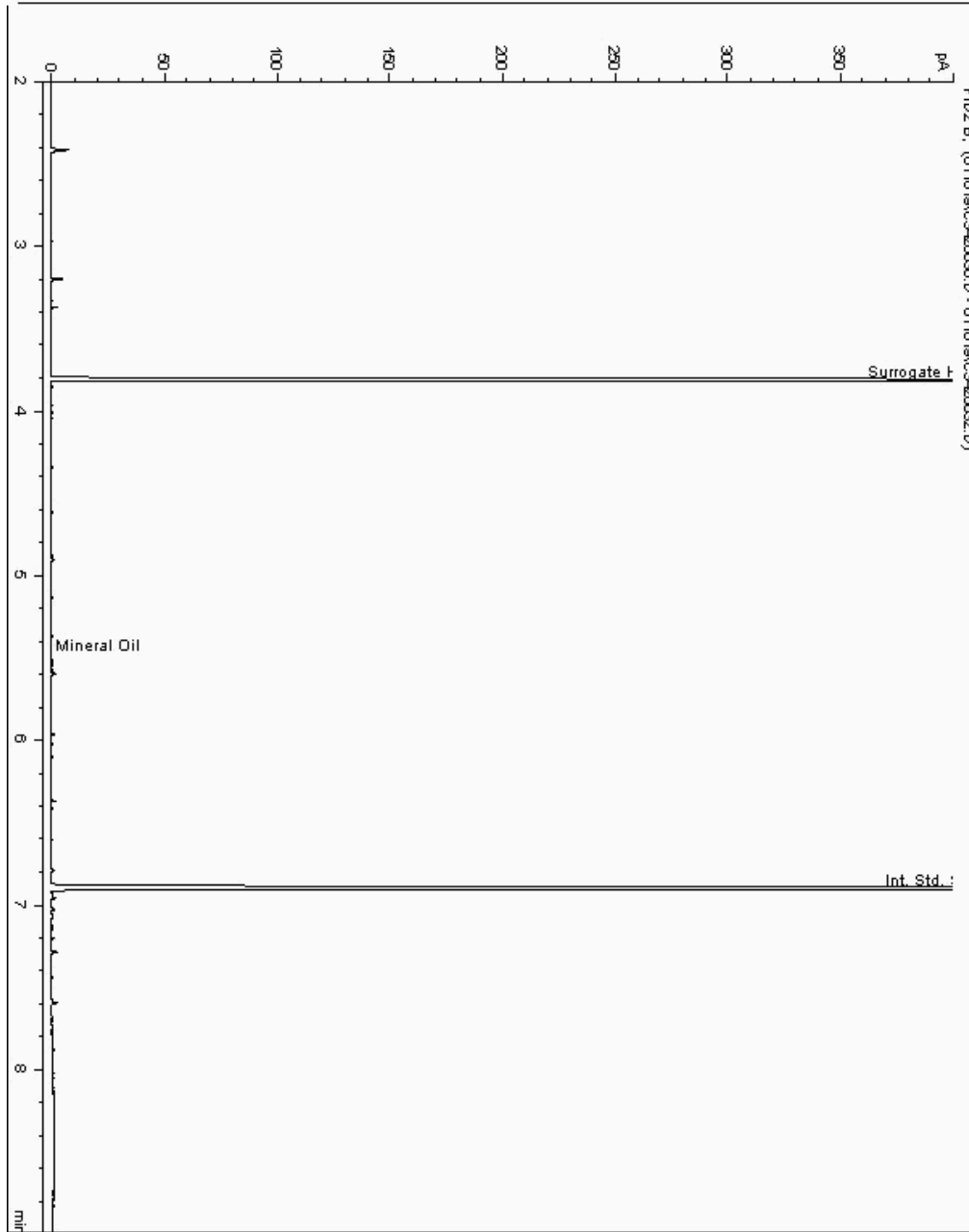
Analysis: Mineral Oil
19111664

Sample No :
Sample ID : BH218

19,111,664Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948117-
Date Acquired : 16/01/19 21:02:57 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

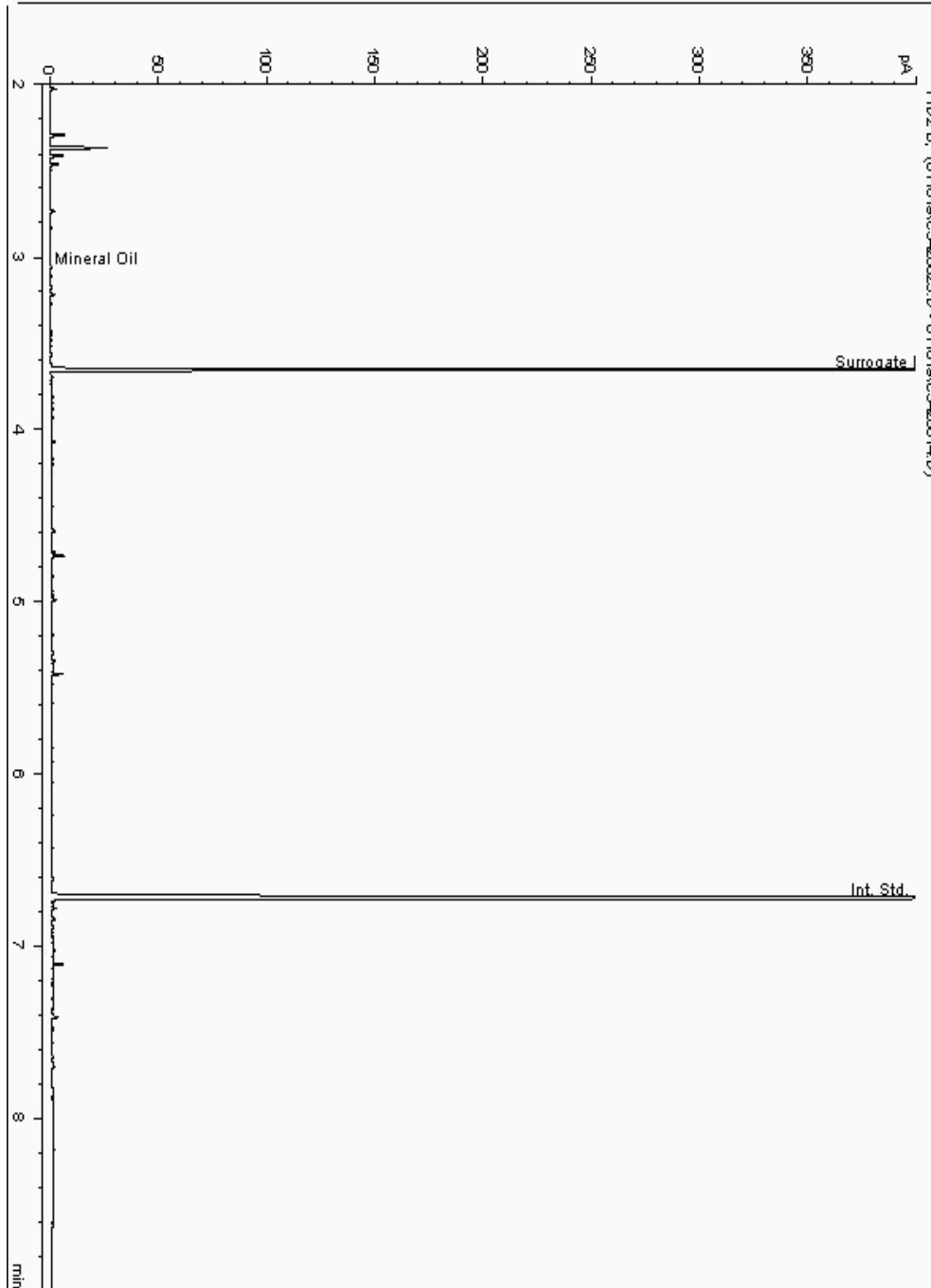
Analysis: Mineral Oil
19112047

Sample No :
Sample ID : BH223

19,112,047Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17946688-
Date Acquired : 16/01/2019 16:27:05 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

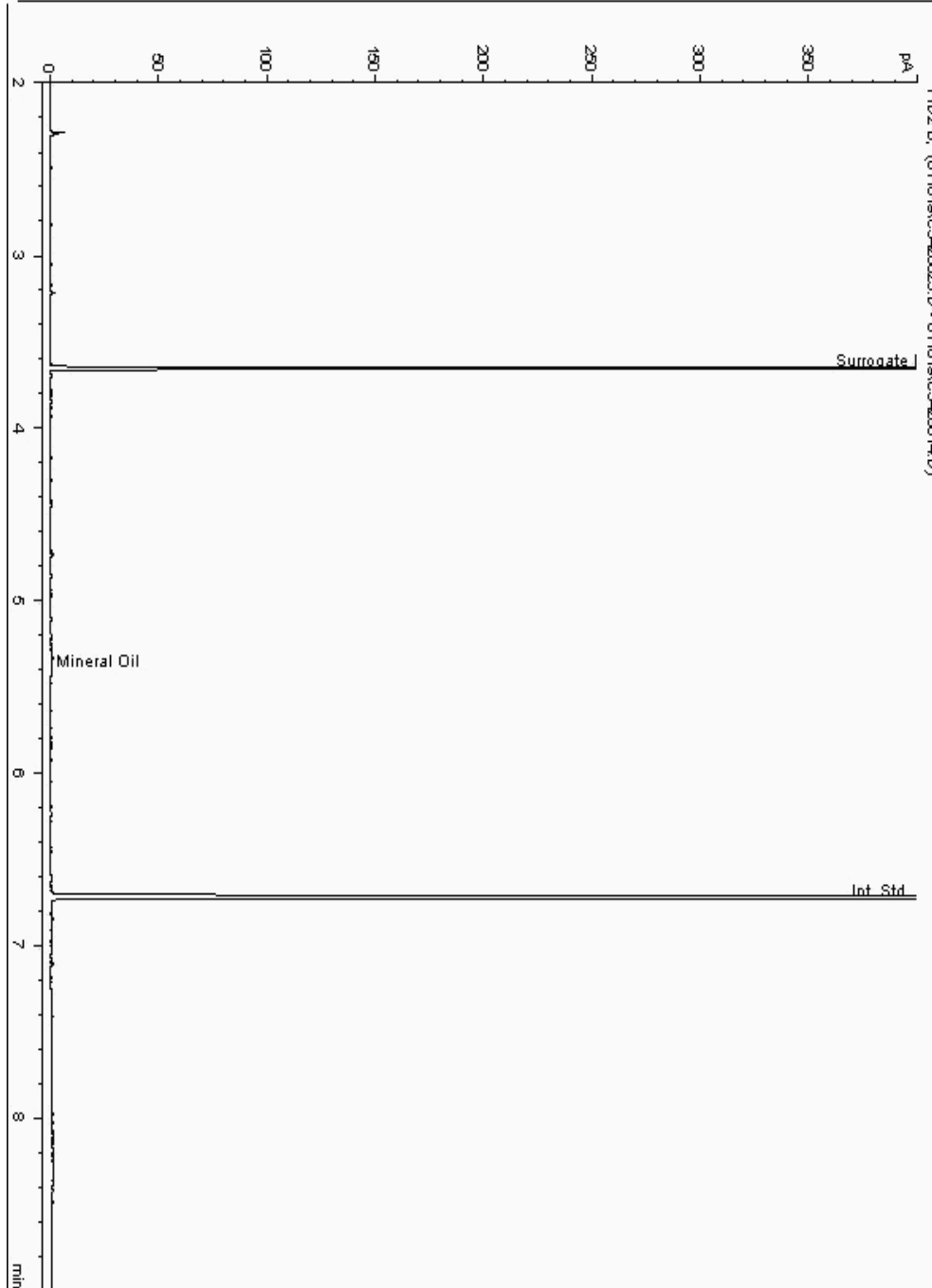
Analysis: Mineral Oil
19112140

Sample No :
Sample ID : BH222

19,112,140Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947267-
Date Acquired : 16/01/2019 15:53:15 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

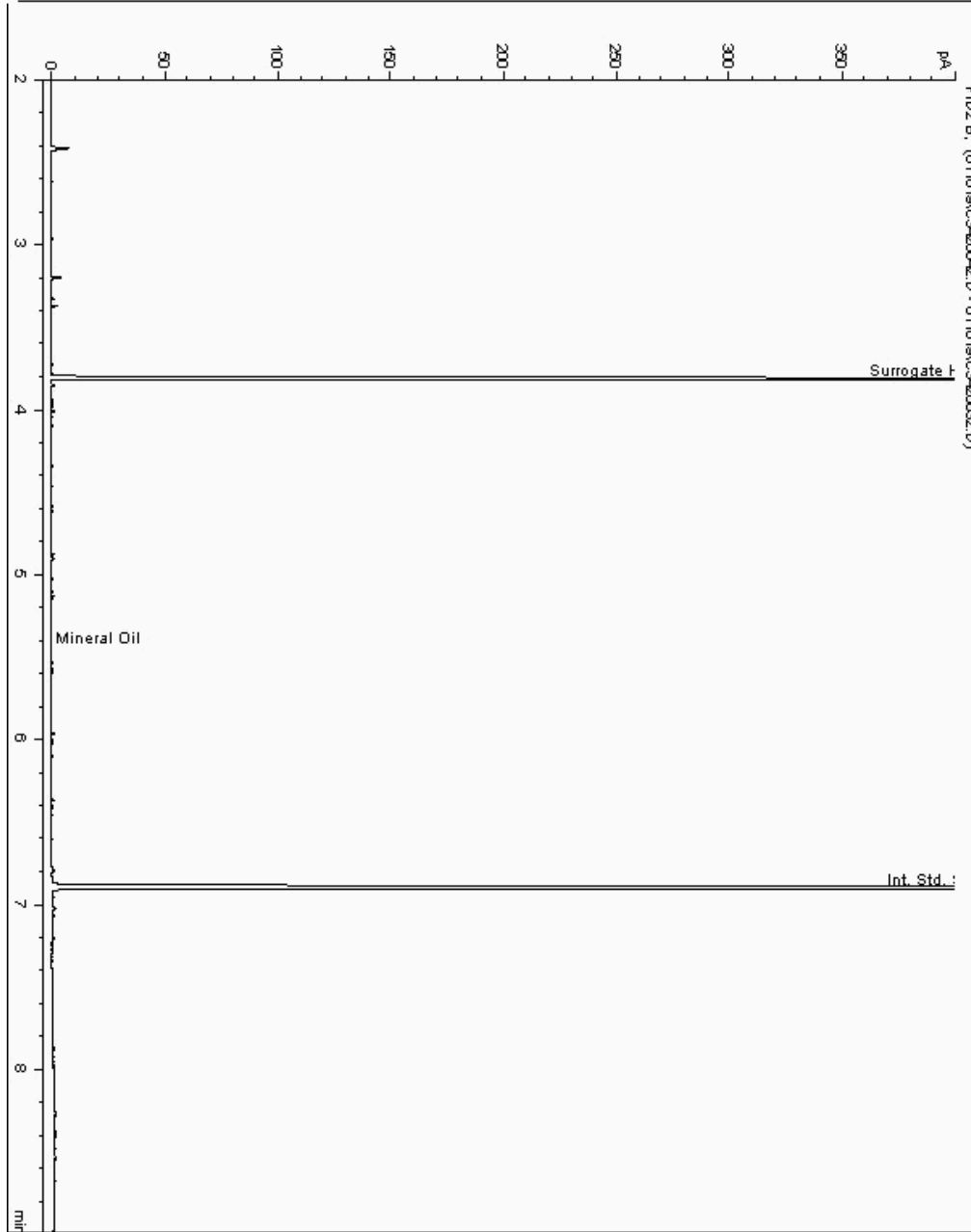
Analysis: Mineral Oil
19112206

Sample No :
Sample ID : BH218

19,112,206Depth :9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17948209-
Date Acquired : 16/01/19 22:48:50 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

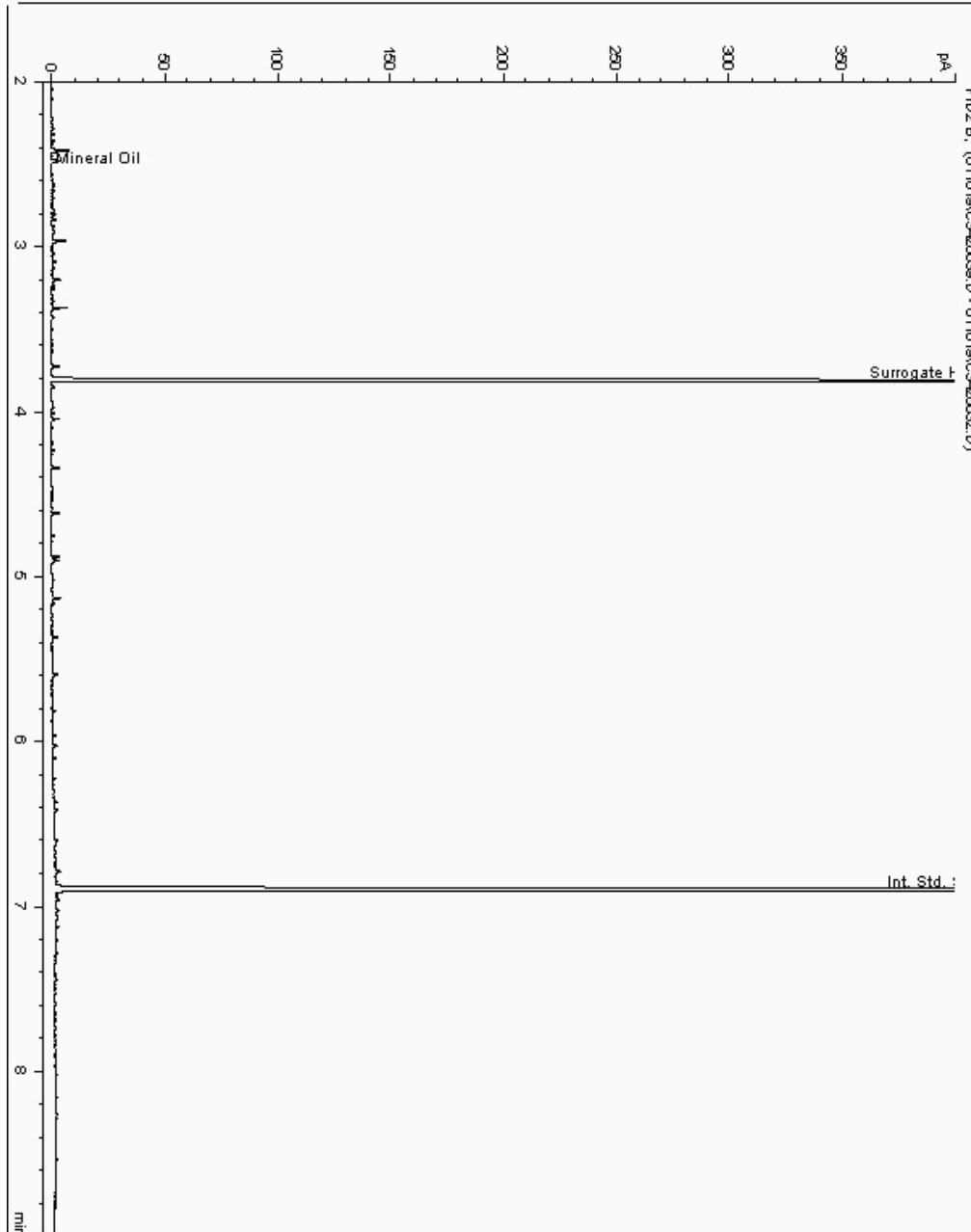
Analysis: Mineral Oil
19112349

Sample No :
Sample ID : BH224

19,112,349 Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17947718-
Date Acquired : 16/01/19 21:55:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

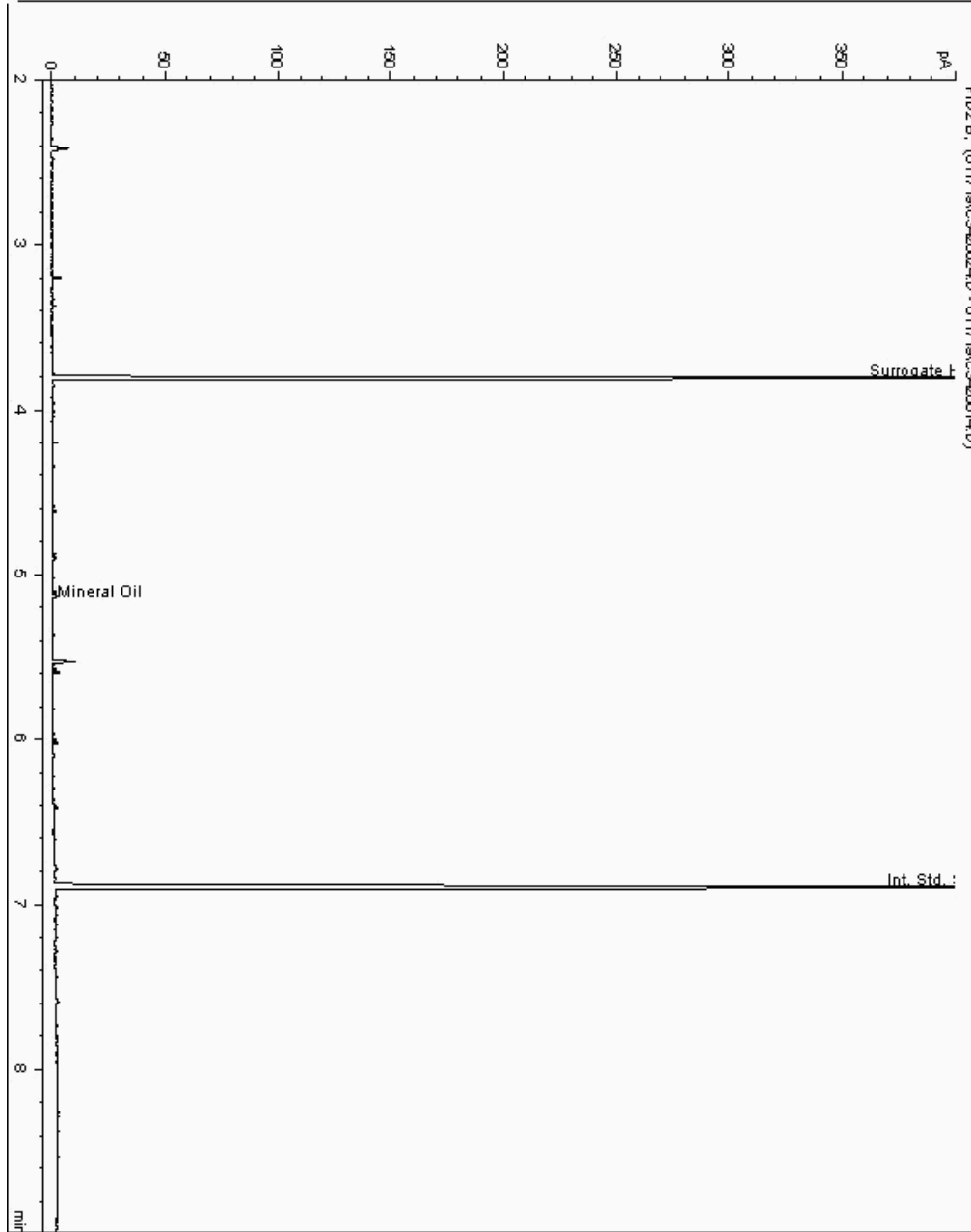
Analysis: Mineral Oil
19121479

Sample No :
Sample ID : BH235

19,121,479 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961598-
Date Acquired : 17/01/19 17:14:48 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

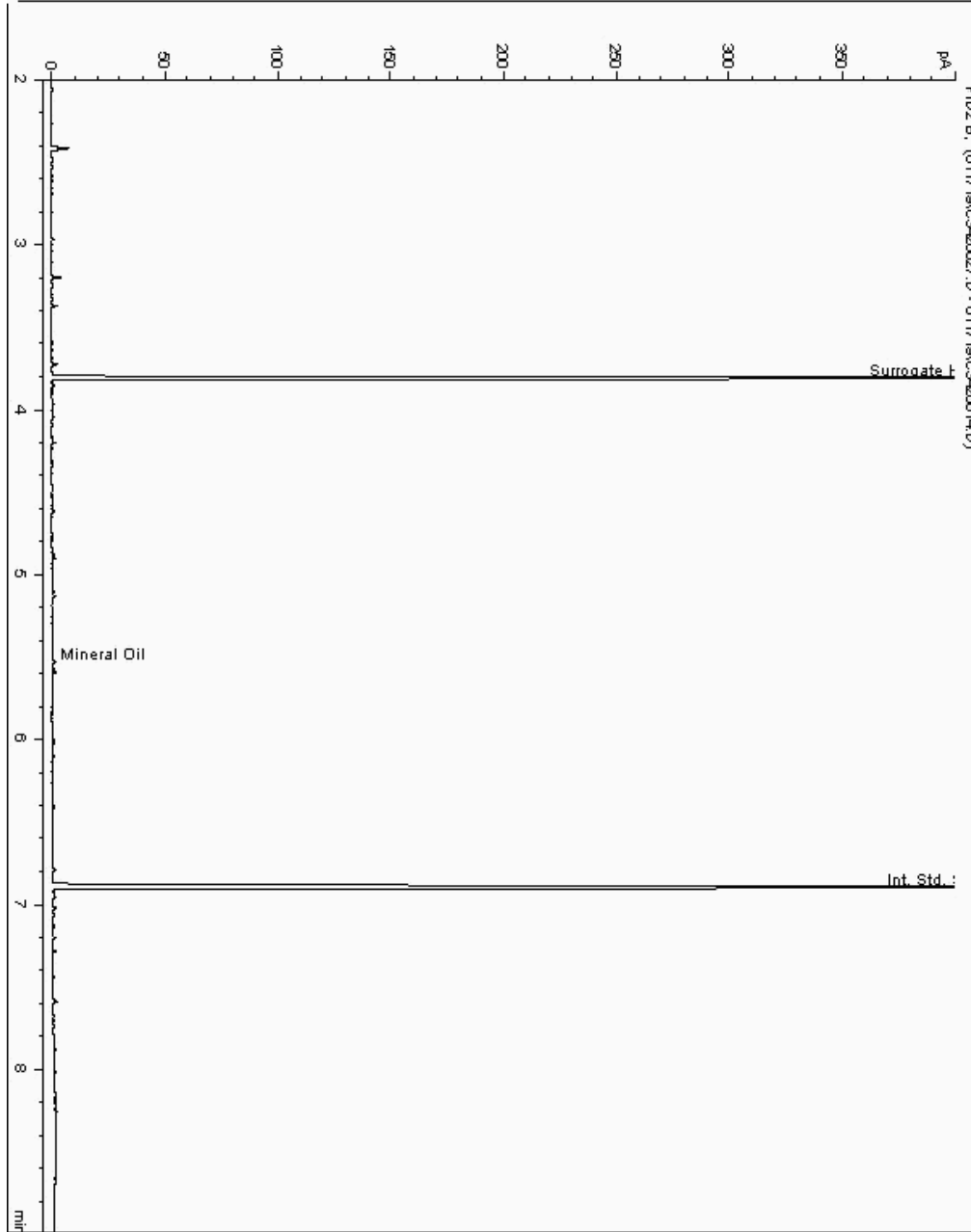
Analysis: Mineral Oil
19121509

Sample No :
Sample ID : BH235

19,121,509Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961572-
Date Acquired : 17/01/19 18:07:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

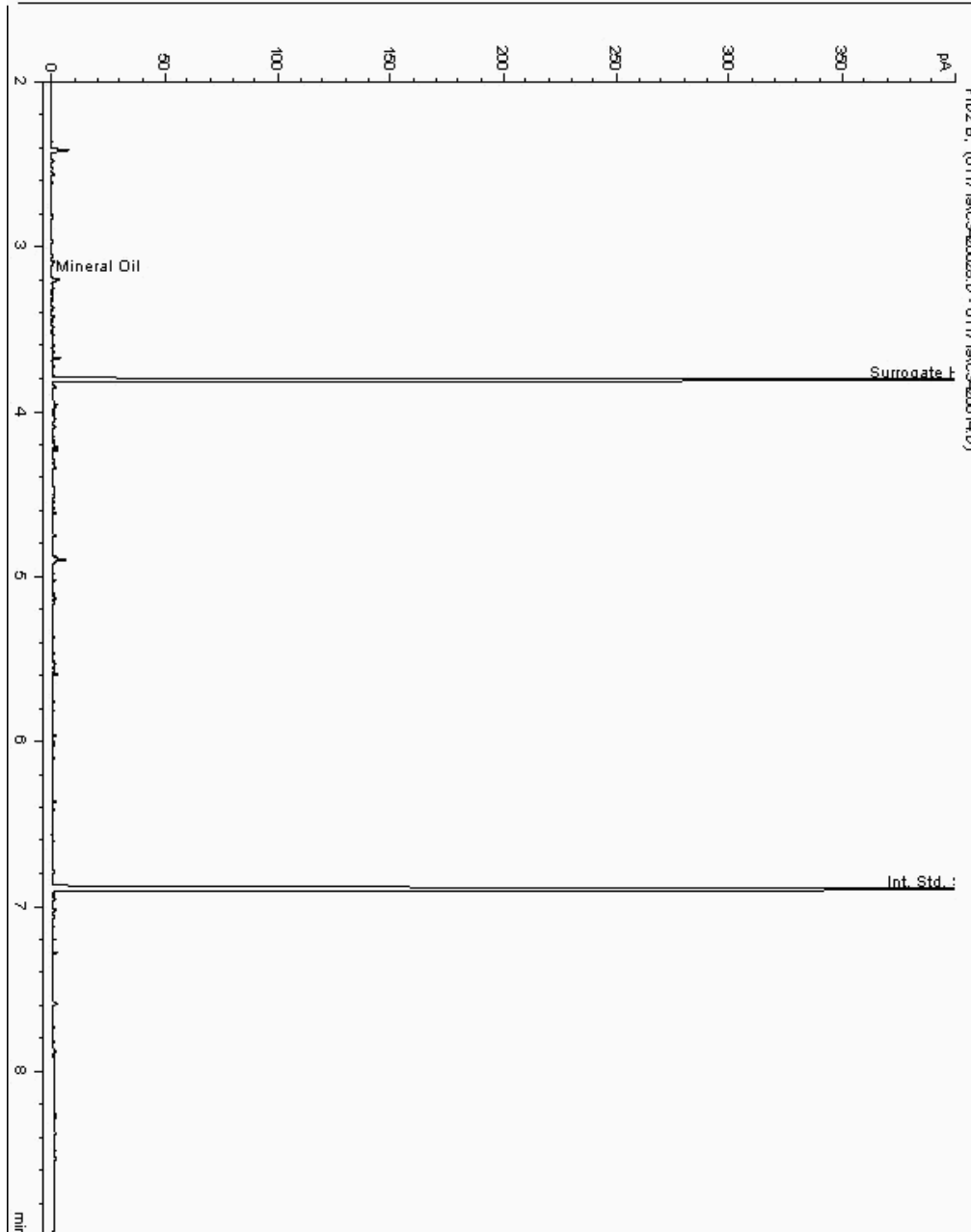
Analysis: Mineral Oil
19121587

Sample No :
Sample ID : BH222

19,121,587Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961590-
Date Acquired : 17/01/19 18:27:15 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

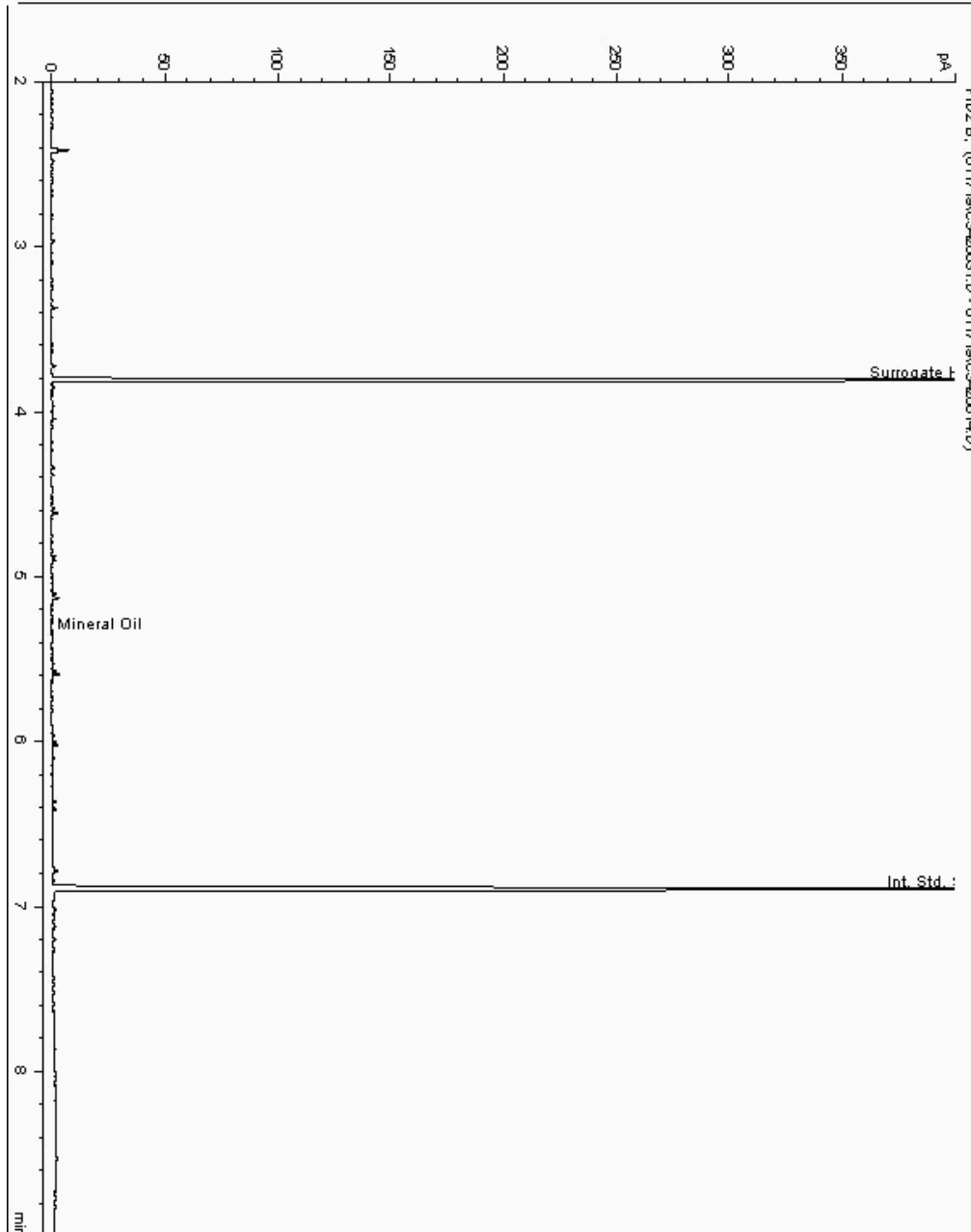
Analysis: Mineral Oil
19121604

Sample No :
Sample ID : BH235

19,121,604 Depth : 12.50 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961619-
Date Acquired : 17/01/19 19:19:27 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

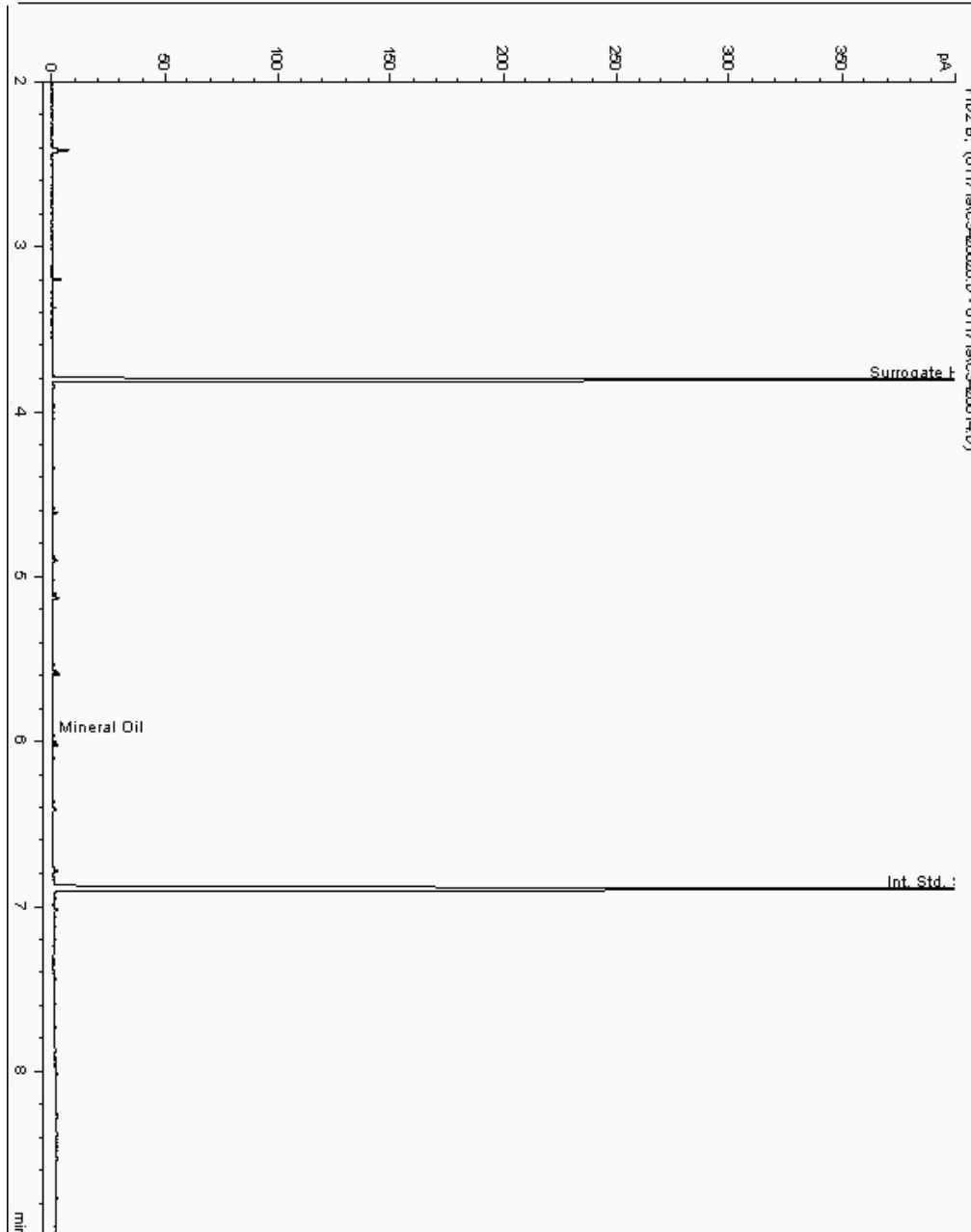
Analysis: Mineral Oil
19121634

Sample No :
Sample ID : BH235

19,121,634 Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961617-
Date Acquired : 17/01/19 17:47:04 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

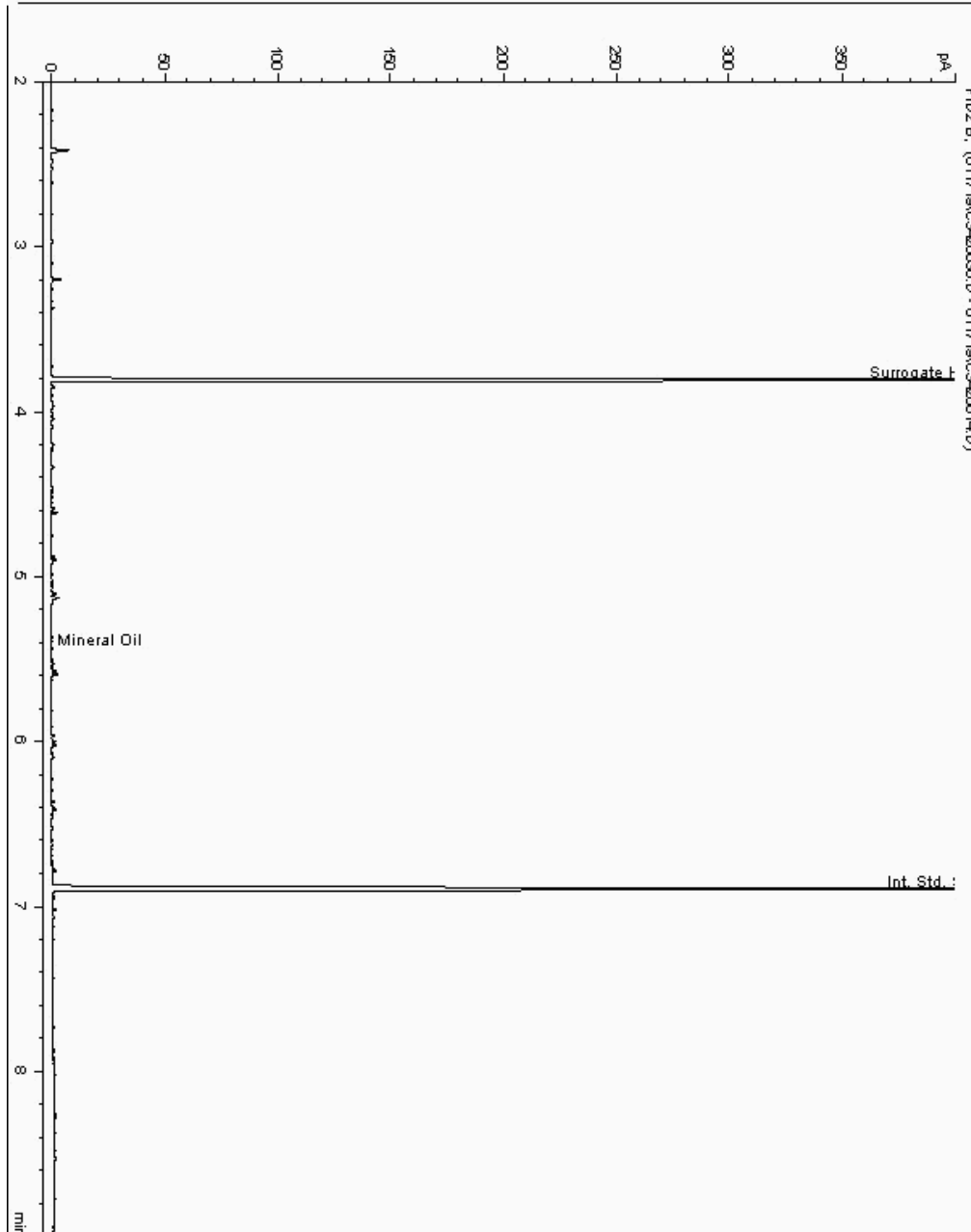
Analysis: Mineral Oil
19122422

Sample No :
Sample ID : BH224

19,122,422Depth :9.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961592-
Date Acquired : 17/01/19 18:59:19 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

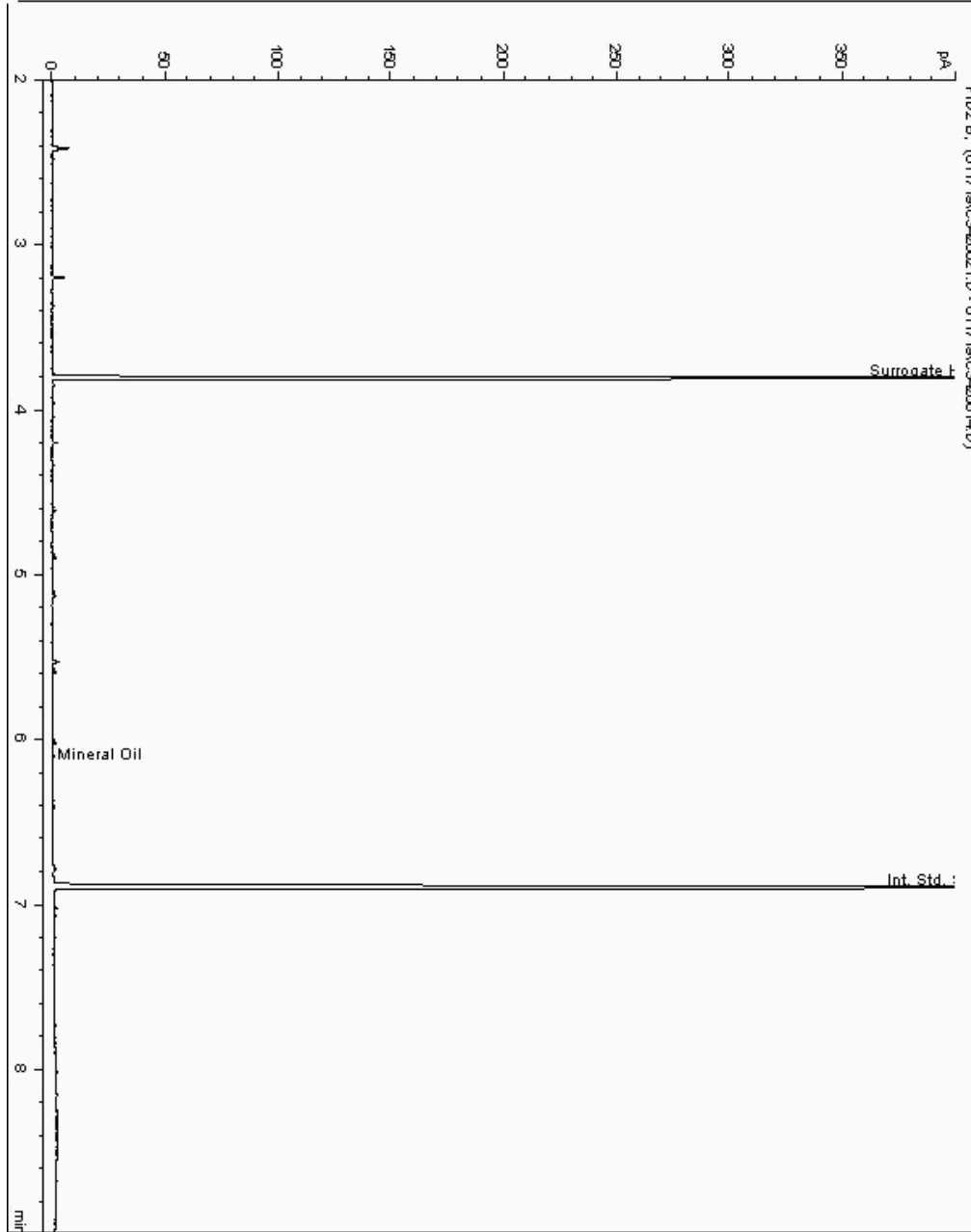
Analysis: Mineral Oil
19123632

Sample No :
Sample ID : BH235

19,123,632 Depth : 9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961611-
Date Acquired : 17/01/19 16:22:29 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

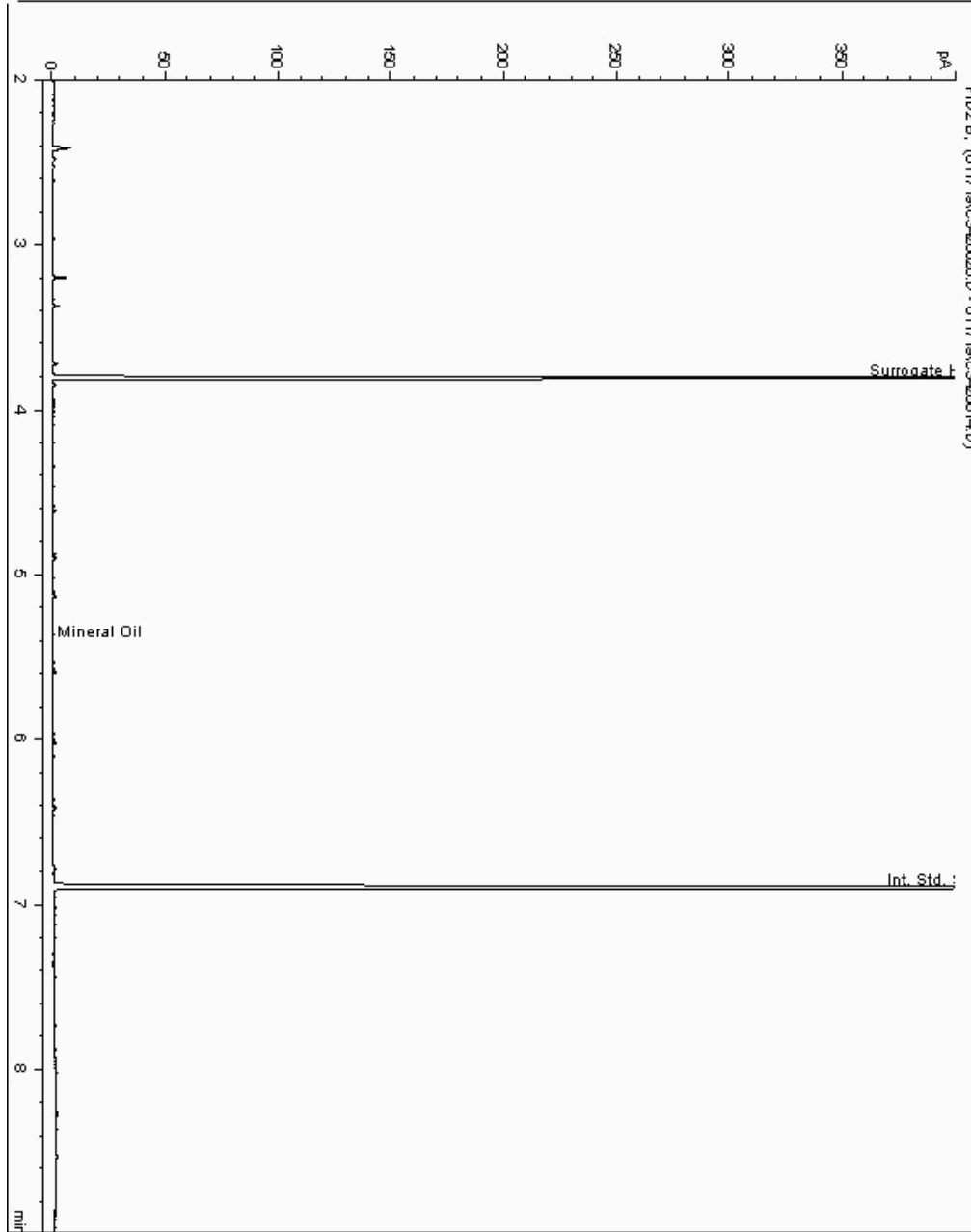
Analysis: Mineral Oil
19123636

Sample No :
Sample ID : BH235

19,123,636 Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961600-
Date Acquired : 17/01/19 16:02:07 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

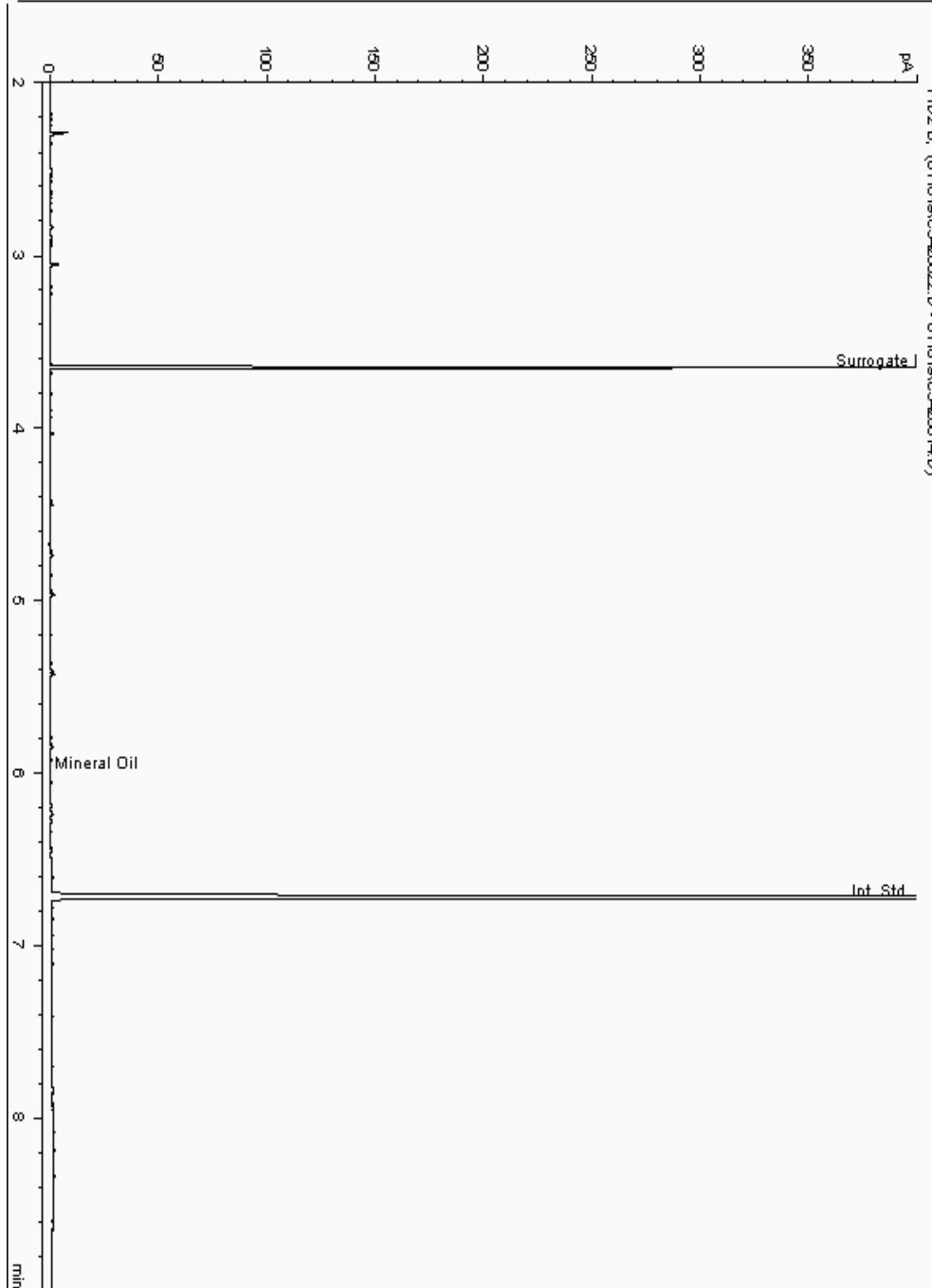
Analysis: Mineral Oil
19129193

Sample No :
Sample ID : BH218

19,129,193Depth :6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961613-
Date Acquired : 18/01/2019 13:48:58 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

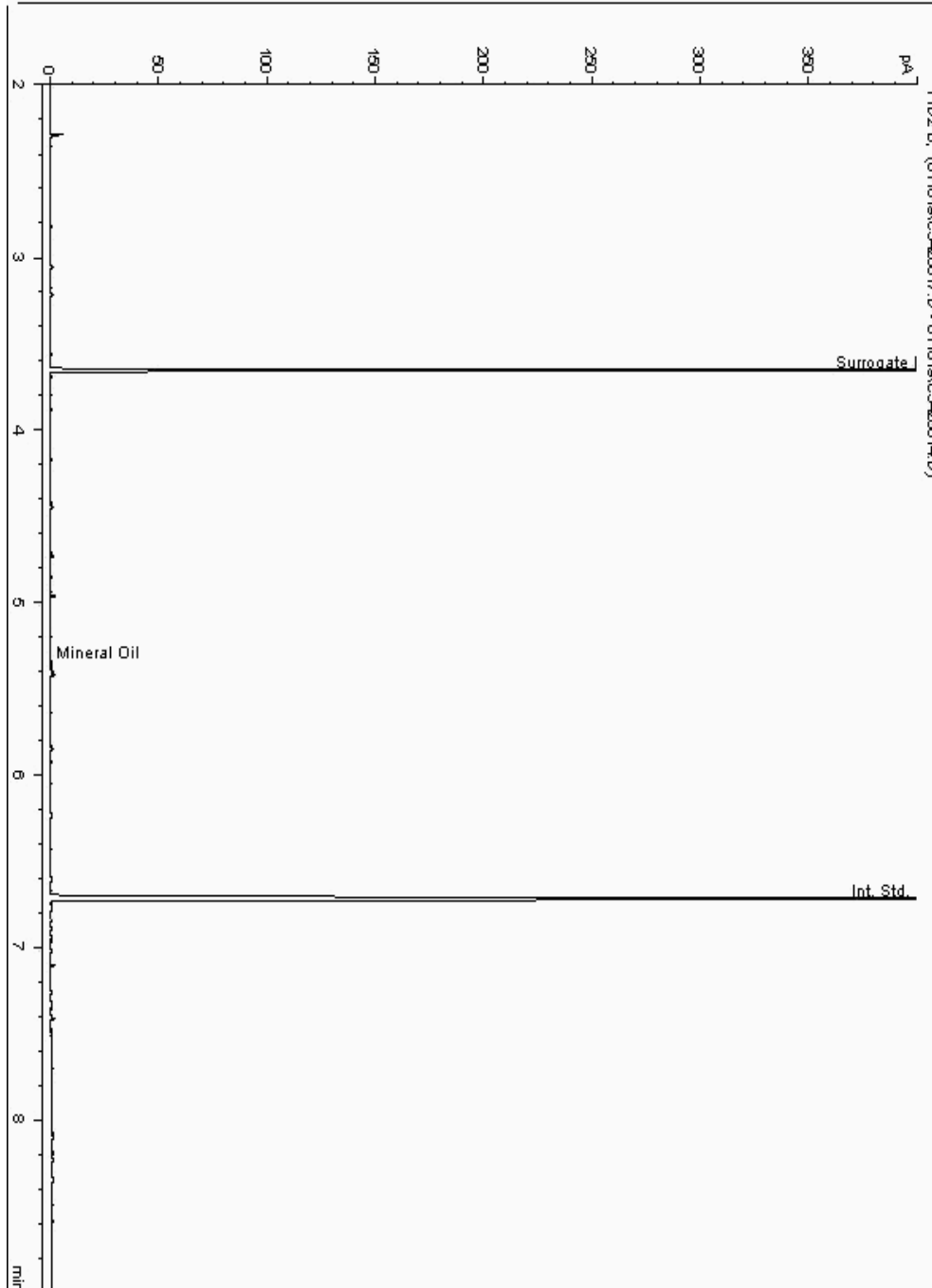
Analysis: Mineral Oil
19129221

Sample No :
Sample ID : BH235

19,129,221 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961580-
Date Acquired : 18/01/2019 12:04:53 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

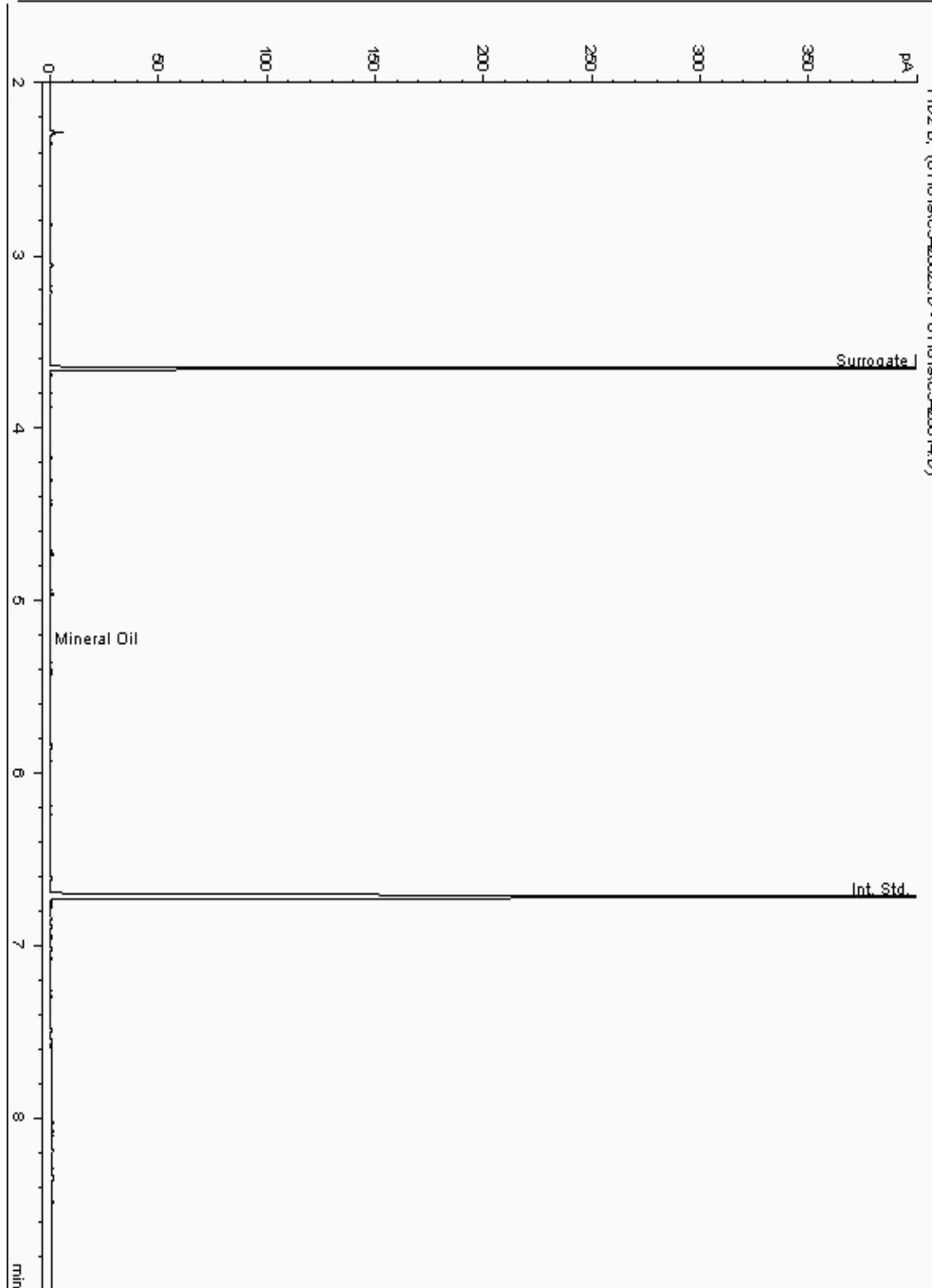
Analysis: Mineral Oil
19129257

Sample No :
Sample ID : BH223

19,129,257Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961587-
Date Acquired : 18/01/2019 14:50:35 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

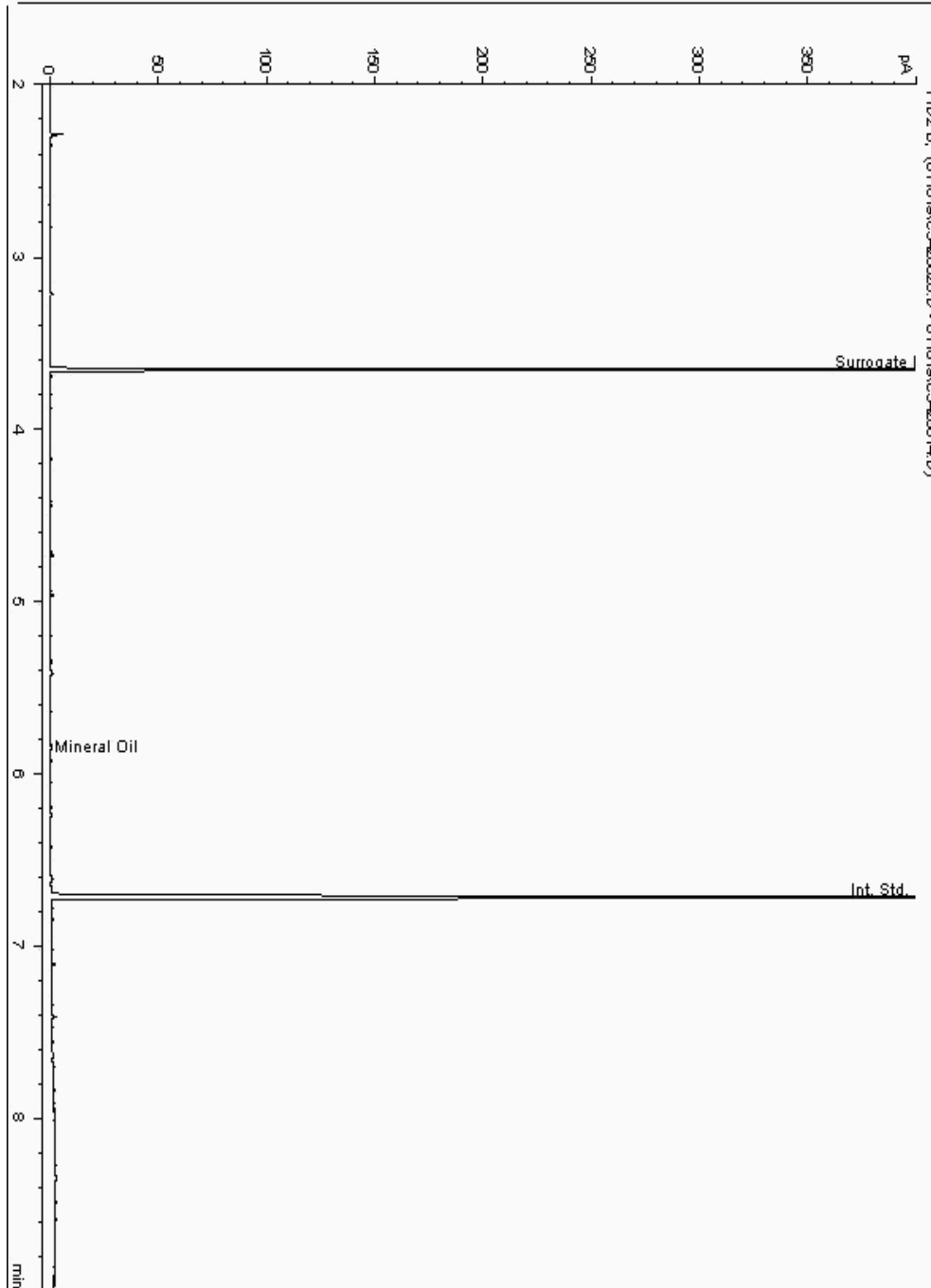
Analysis: Mineral Oil
19129417

Sample No :
Sample ID : BH235

19,129,417Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961574-
Date Acquired : 18/01/2019 13:07:10 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

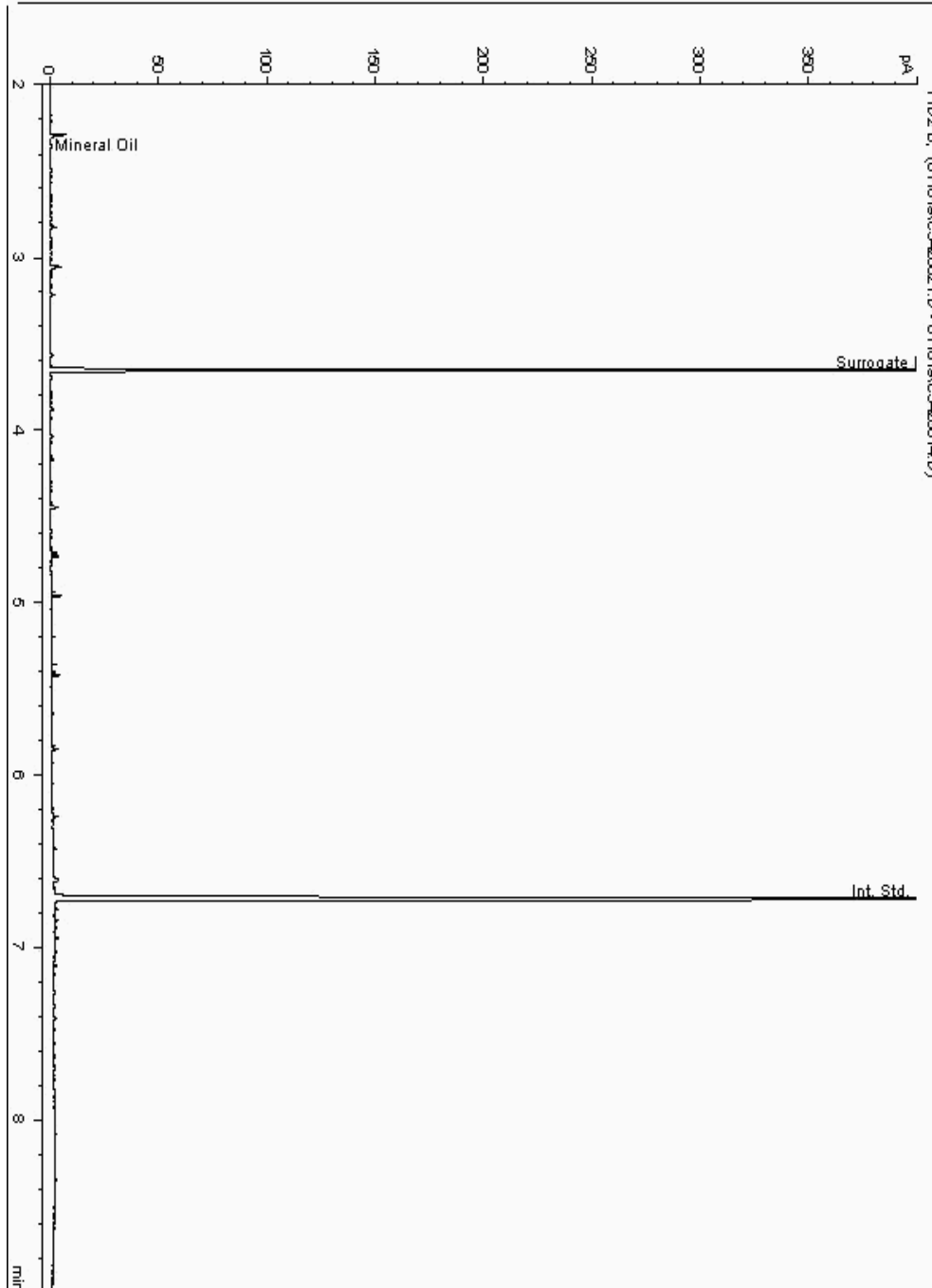
Analysis: Mineral Oil
19129674

Sample No :
Sample ID : BH224

19,129,674 Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961609-
Date Acquired : 18/01/2019 13:28:11 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

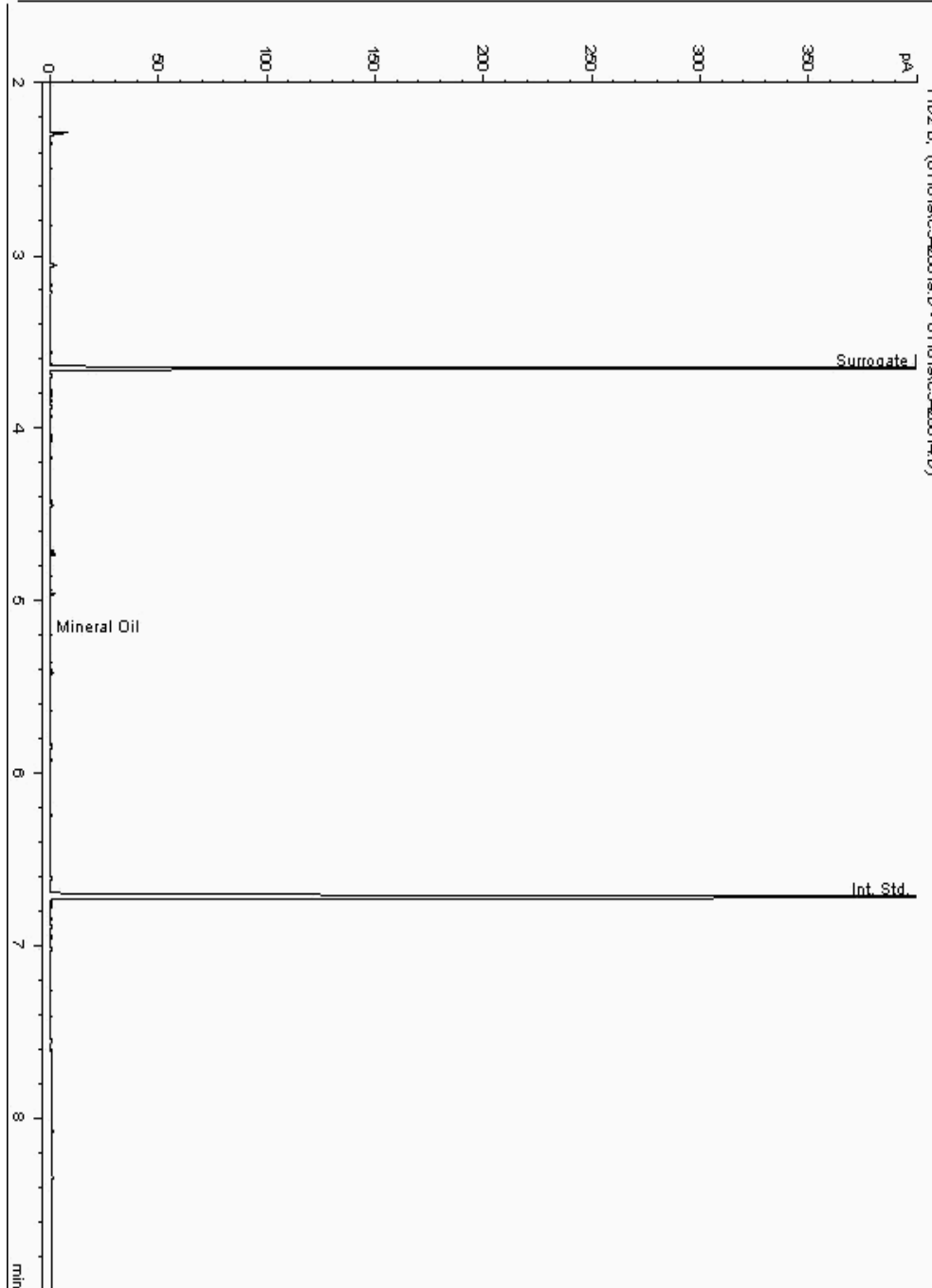
Analysis: Mineral Oil
19129688

Sample No :
Sample ID : BH224

19,129,688 Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961602-
Date Acquired : 18/01/2019 12:46:25 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

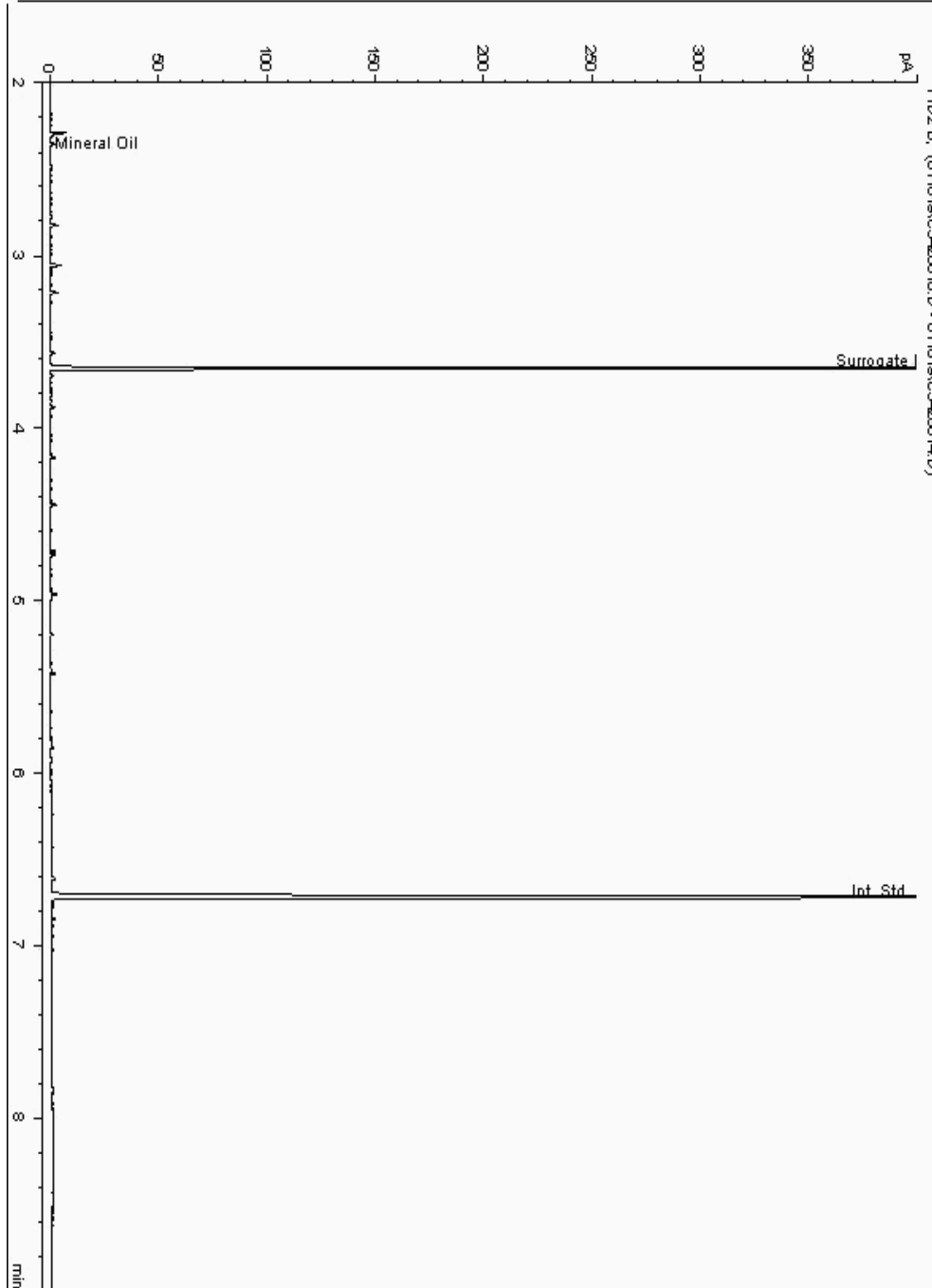
Analysis: Mineral Oil
19129705

Sample No :
Sample ID : BH218

19,129,705Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17961582-
Date Acquired : 18/01/2019 12:25:46 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

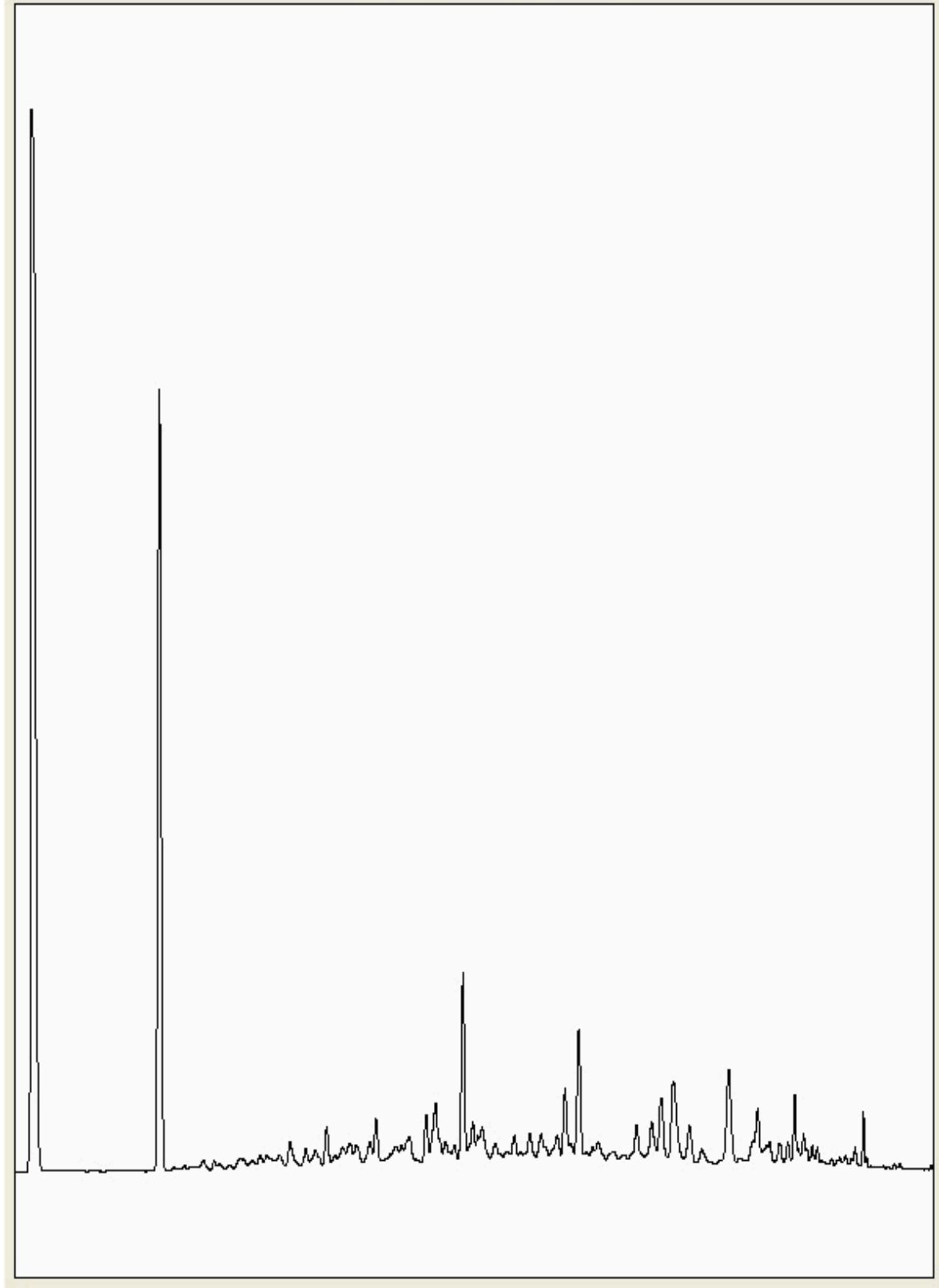
Chromatogram

Analysis: GRO by GC-FID (S)
19133165

Sample No :
Sample ID : BH224

19,133,165Depth :6.00 - 7.00

19133165_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

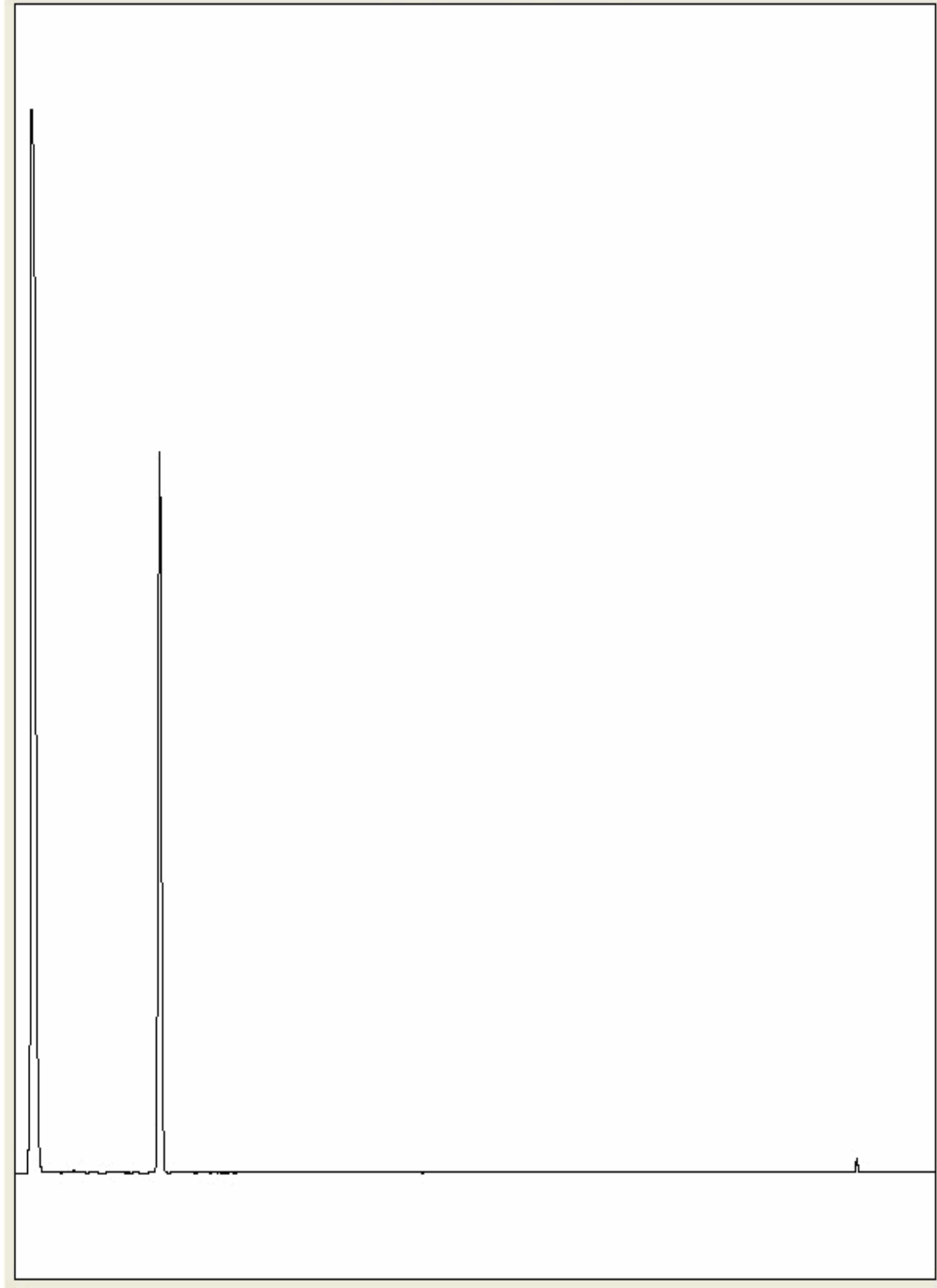
Chromatogram

Analysis: GRO by GC-FID (S)
19133261

Sample No :
Sample ID : BH222

19,133,261 **Depth :** 10.00 - 11.00

19133261_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

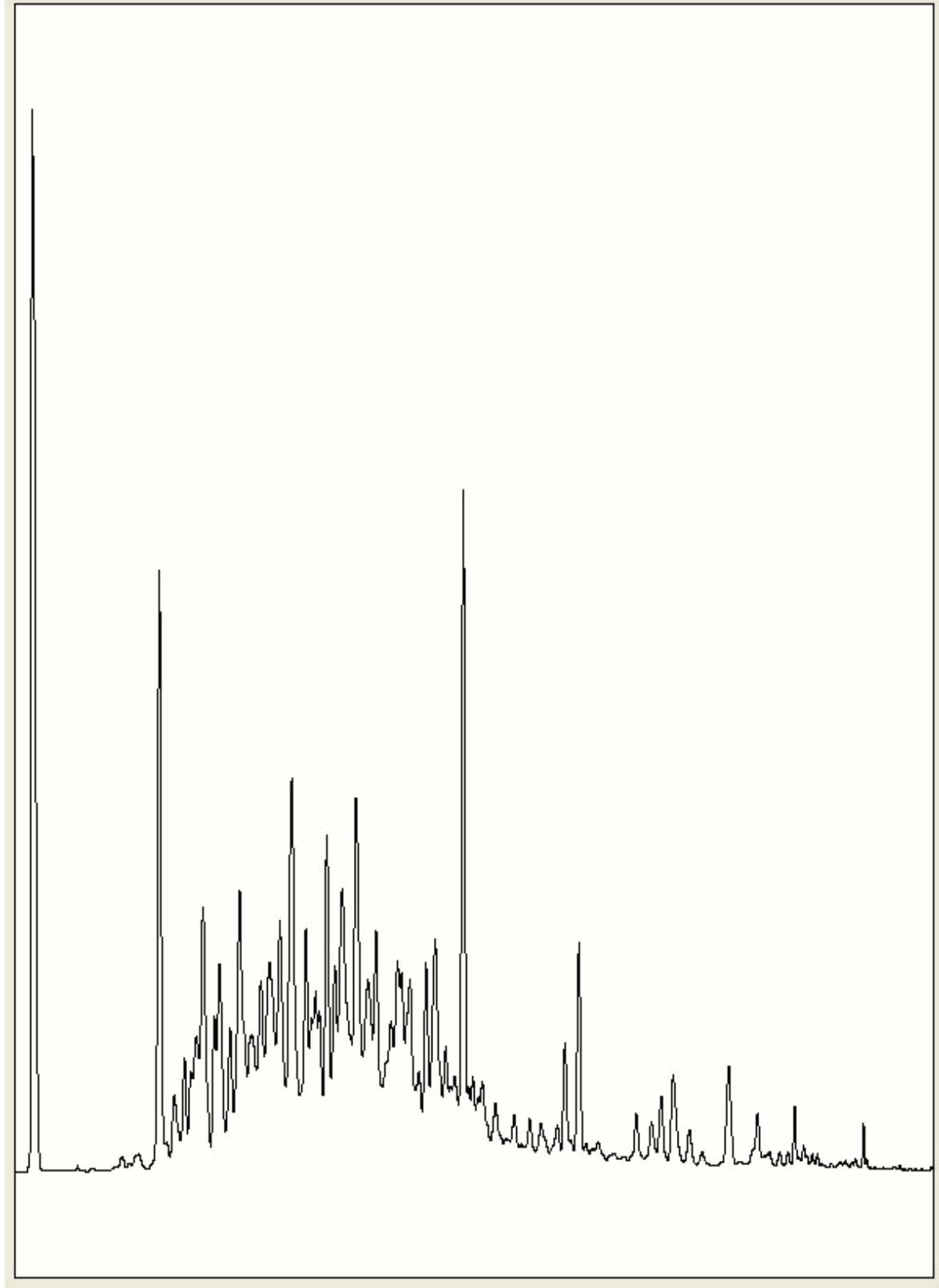
Chromatogram

Analysis: GRO by GC-FID (S)
19133466

Sample No :
Sample ID : BH224

19,133,466Depth :5.00 - 6.00

19133466_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

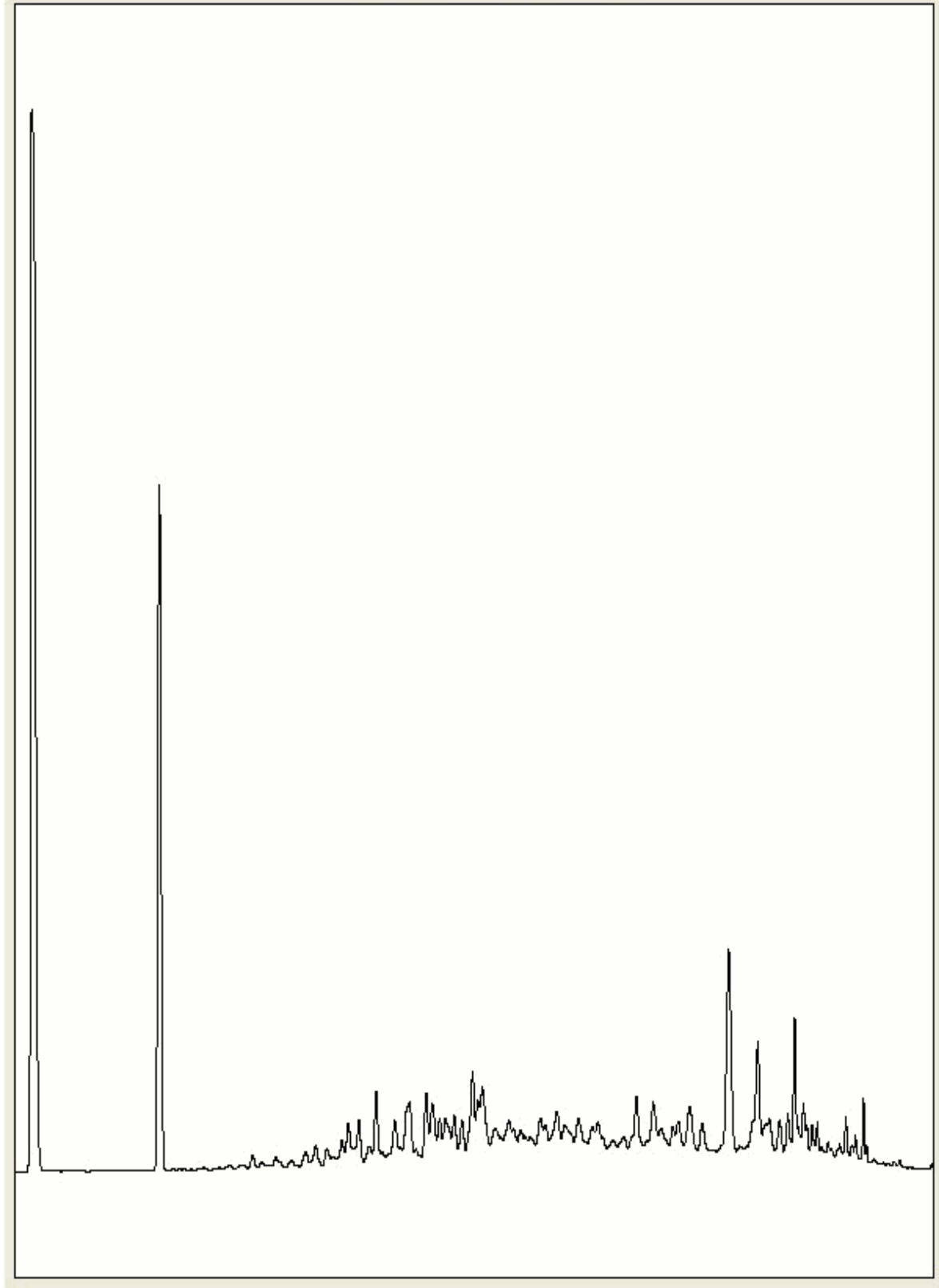
Chromatogram

Analysis: GRO by GC-FID (S)
19133568

Sample No :
Sample ID : BH224

19,133,568 **Depth :** 3.00 - 4.00

19133568_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

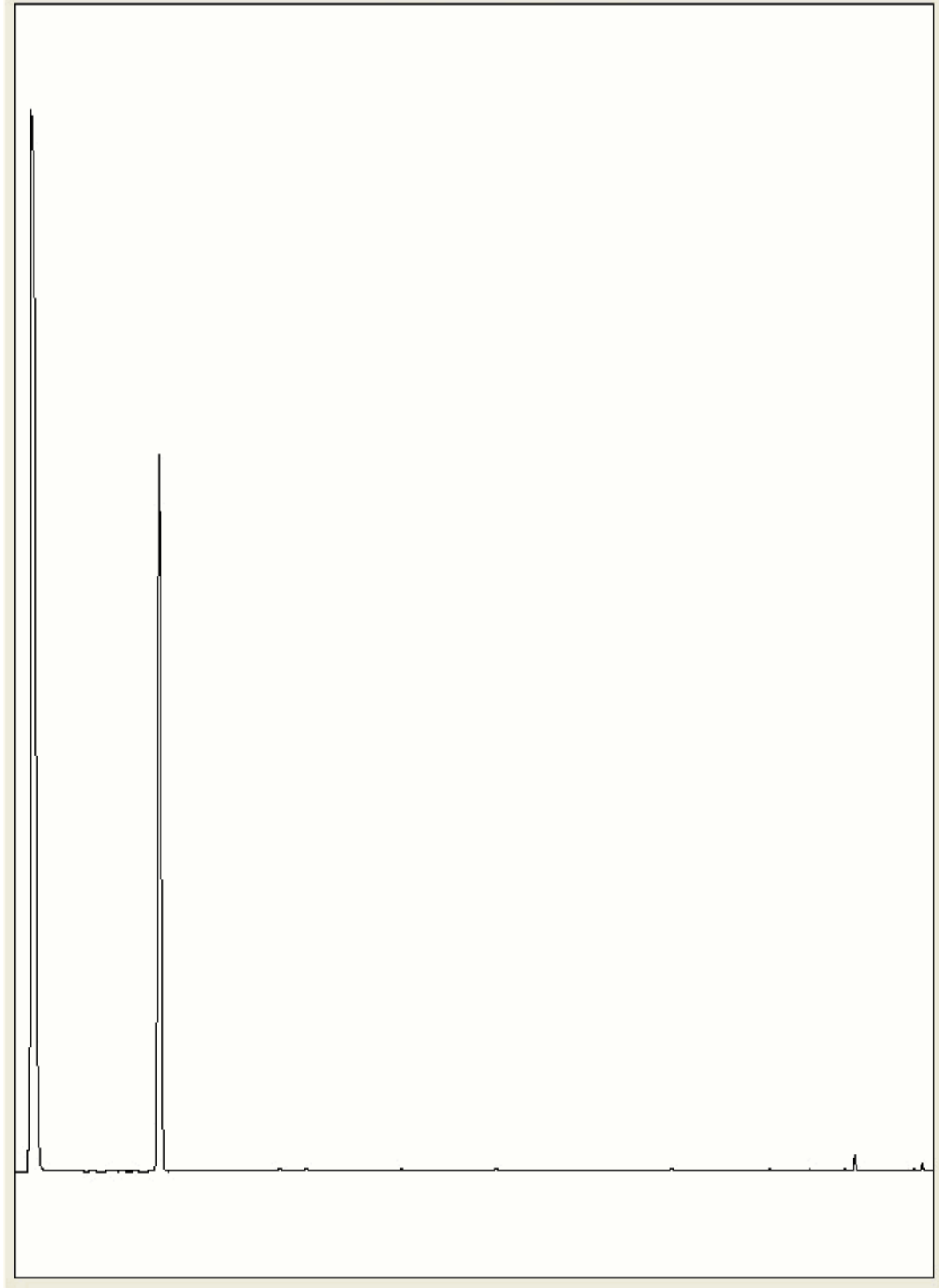
Chromatogram

Analysis: GRO by GC-FID (S)
19133650

Sample No :
Sample ID : BH219

19,133,650**Depth :**5.00 - 6.00

19133650_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

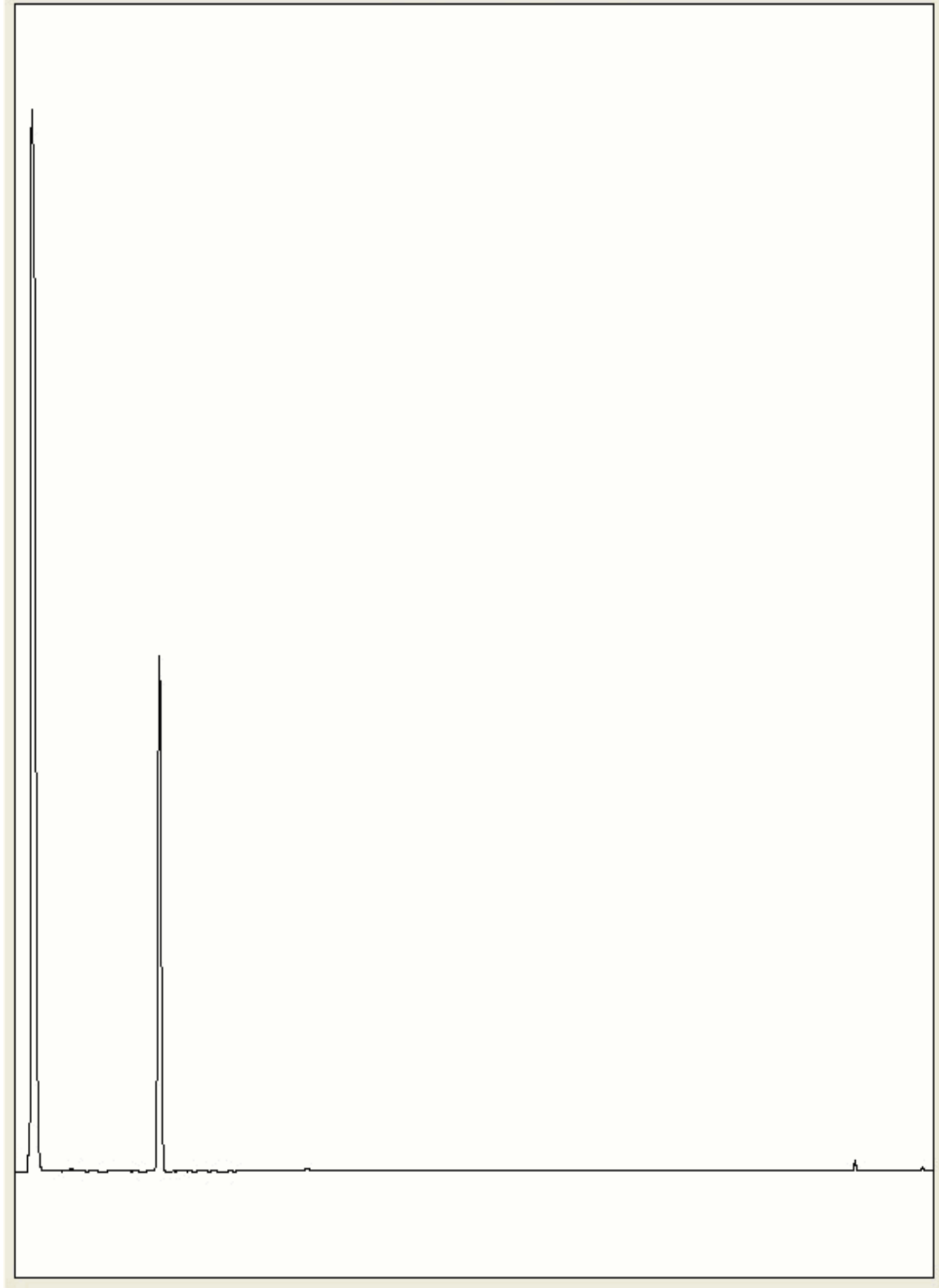
Chromatogram

Analysis: GRO by GC-FID (S)
19133837

Sample No :
Sample ID : BH219

19,133,837**Depth :** 7.00 - 8.00

19133837_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

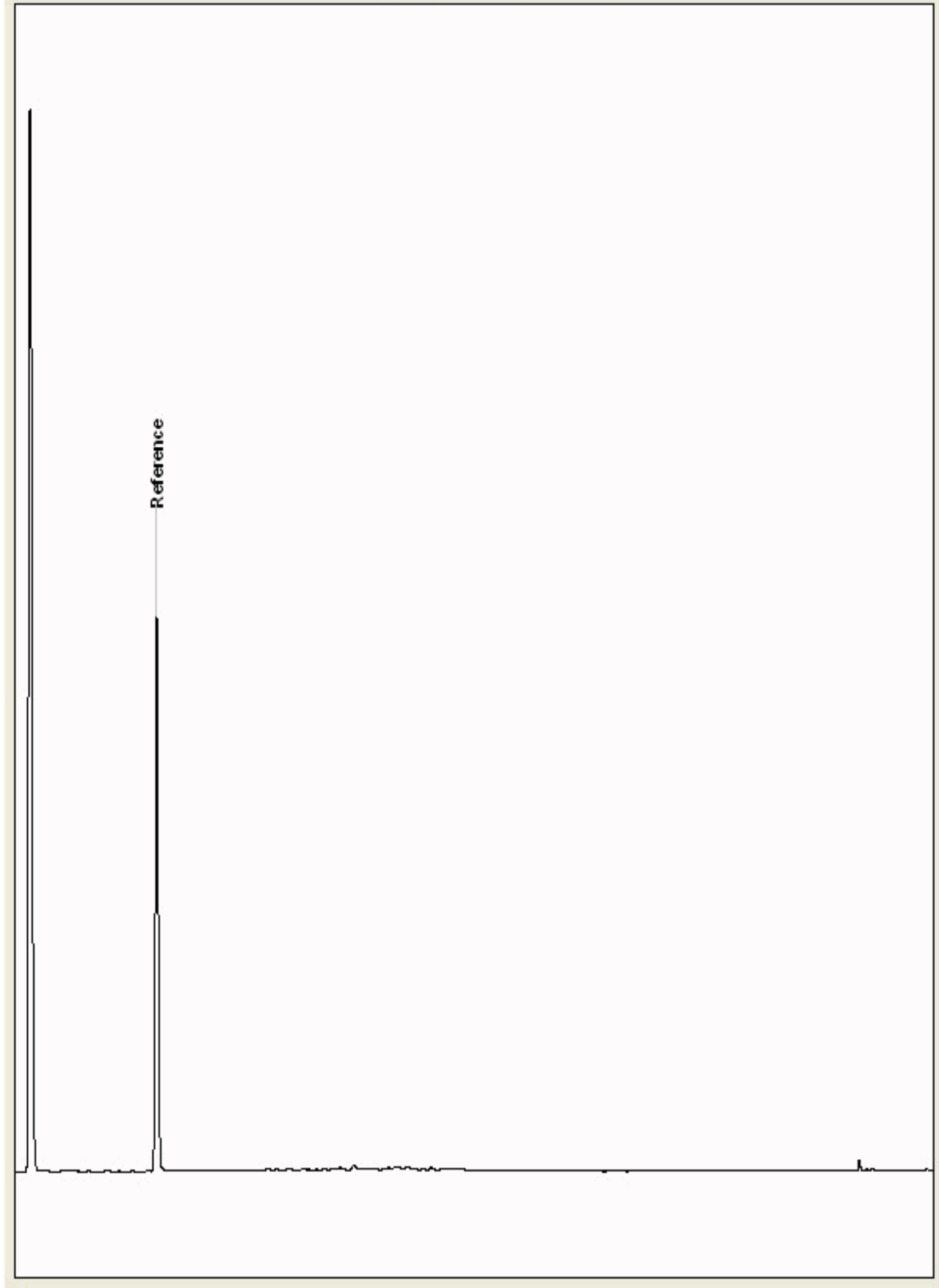
Chromatogram

Analysis: GRO by GC-FID (S)
19138138

Sample No :
Sample ID : BH224

19,138,138Depth : 1.00 - 2.00

19138138_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

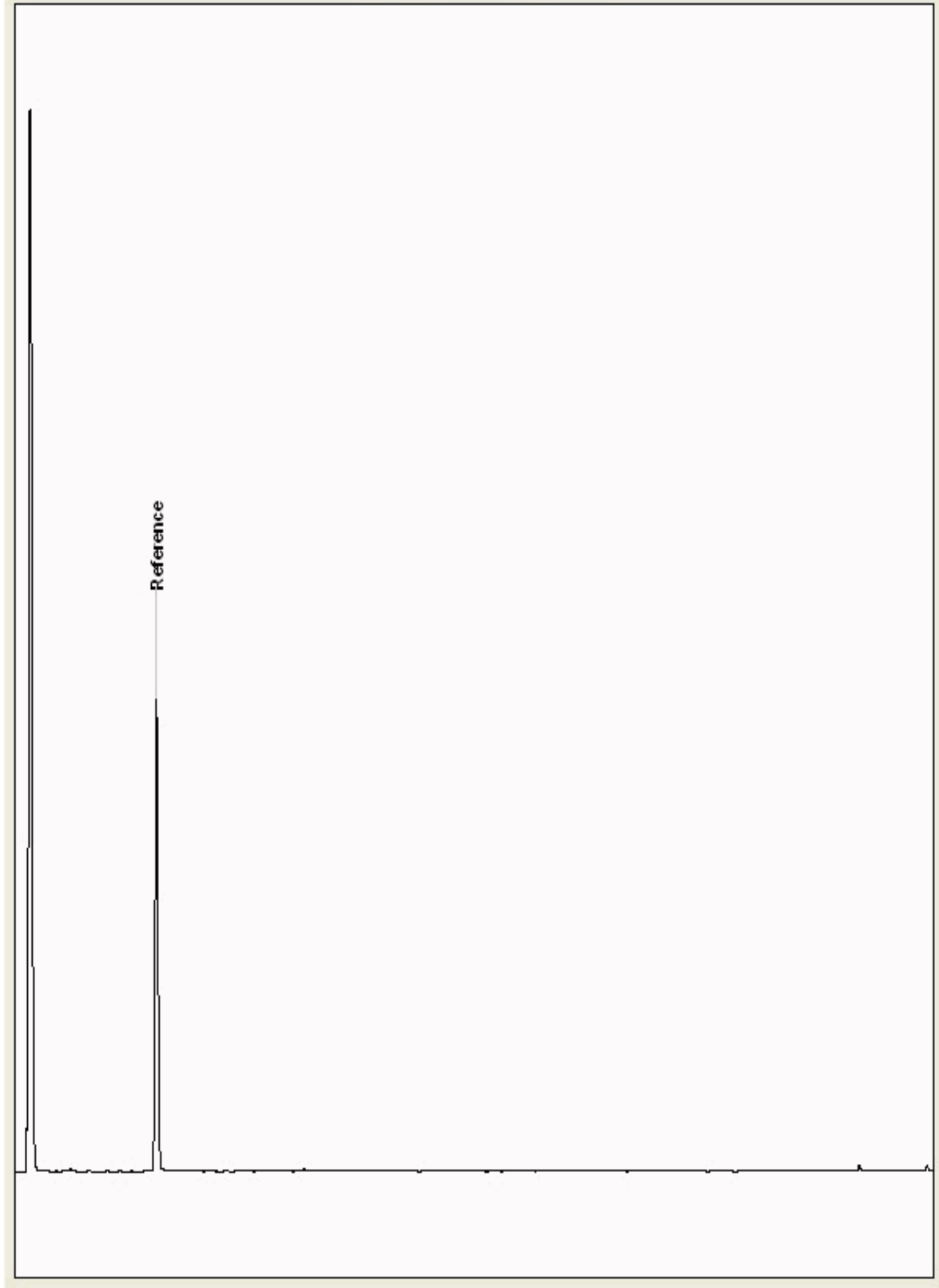
Chromatogram

Analysis: GRO by GC-FID (S)
19138149

Sample No : 19,138,149
Sample ID : BH219

Depth : 6.00 - 7.00

19138149_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

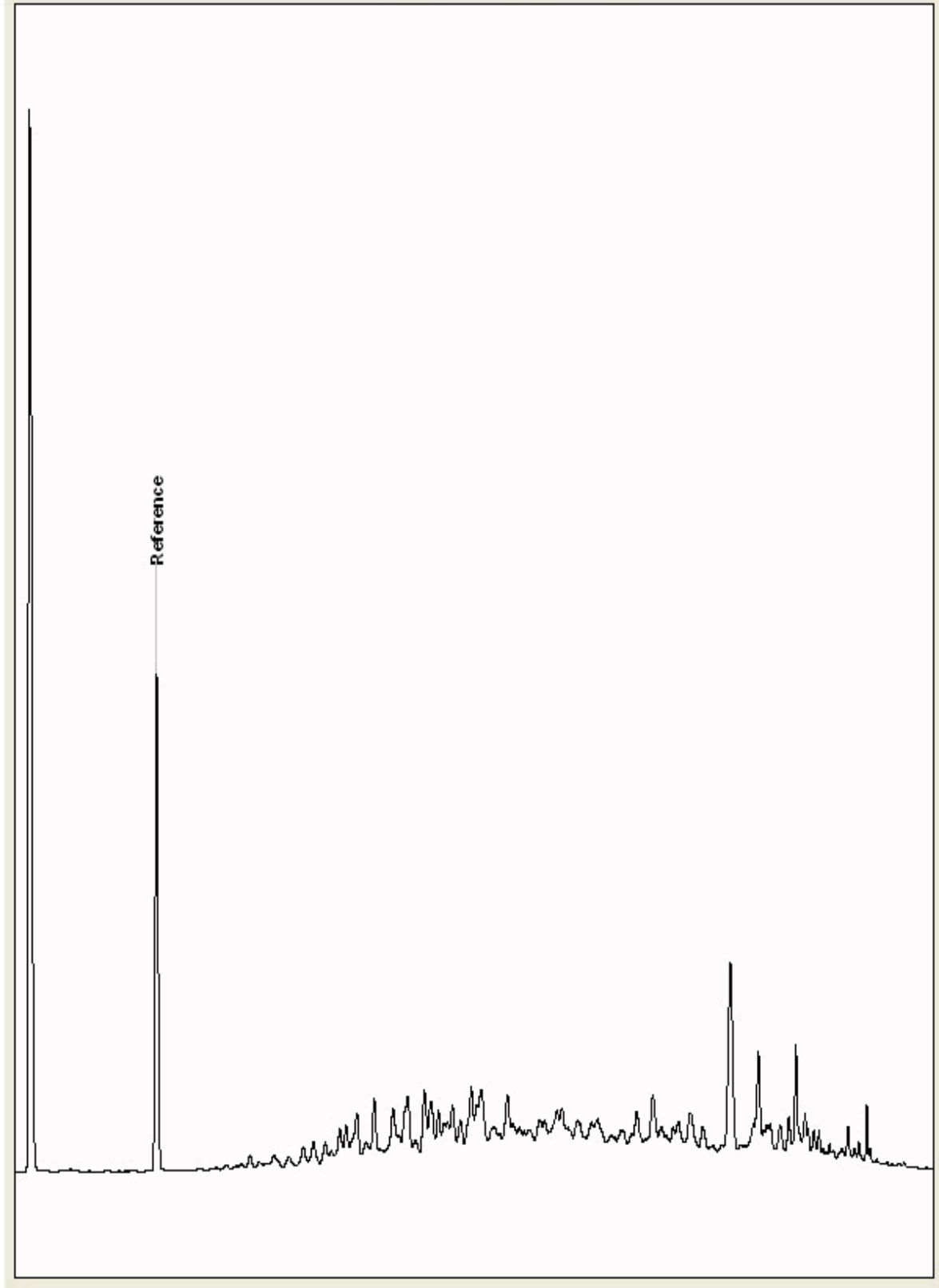
Chromatogram

Analysis: GRO by GC-FID (S)
19138216

Sample No :
Sample ID : BH224

19,138,216Depth :2.00 - 3.00

19138216_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

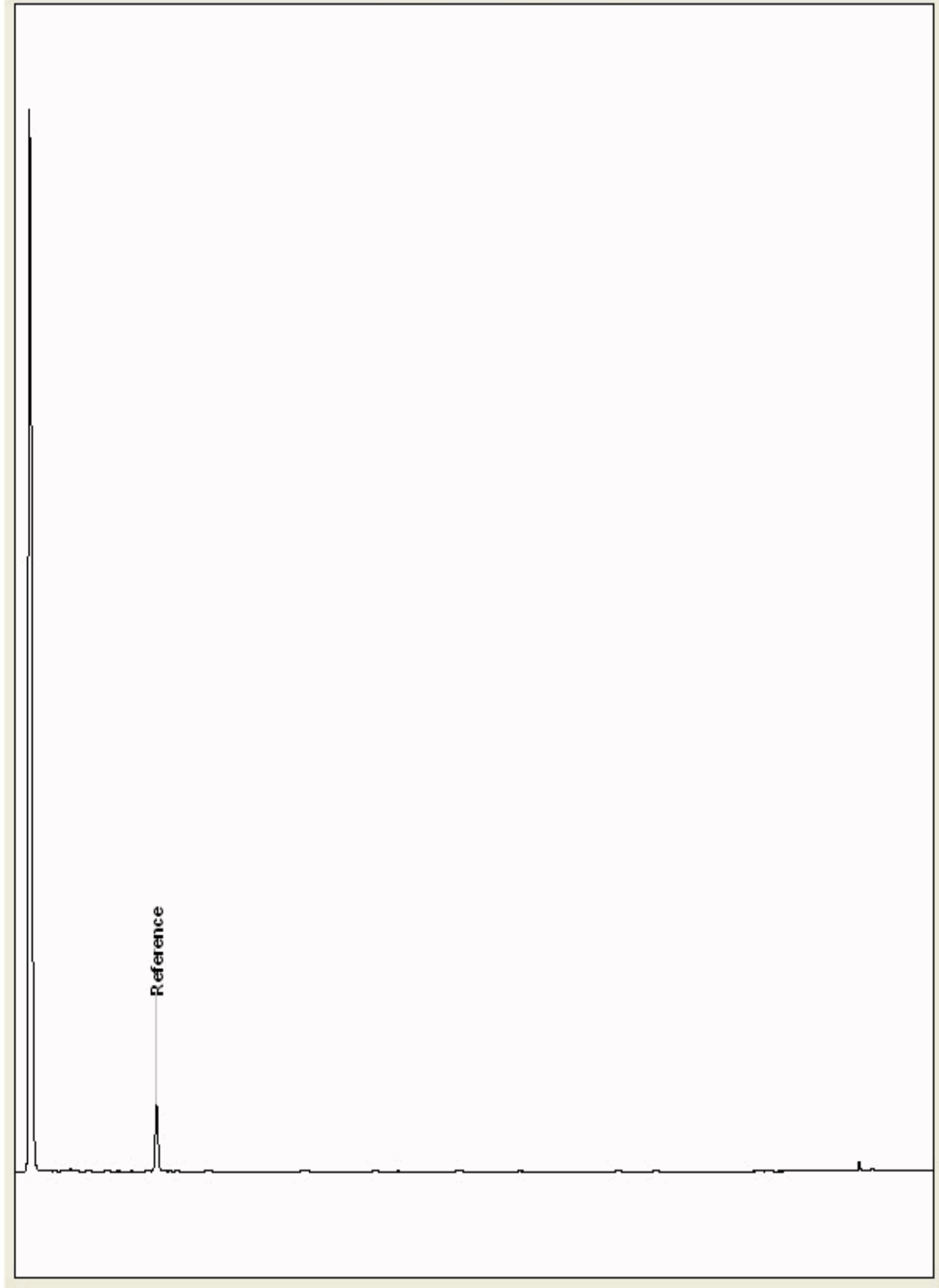
Chromatogram

Analysis: GRO by GC-FID (S)
19138305

Sample No : 19,138,305
Sample ID : BH222

Depth : 13.00 - 15.00

19138305_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

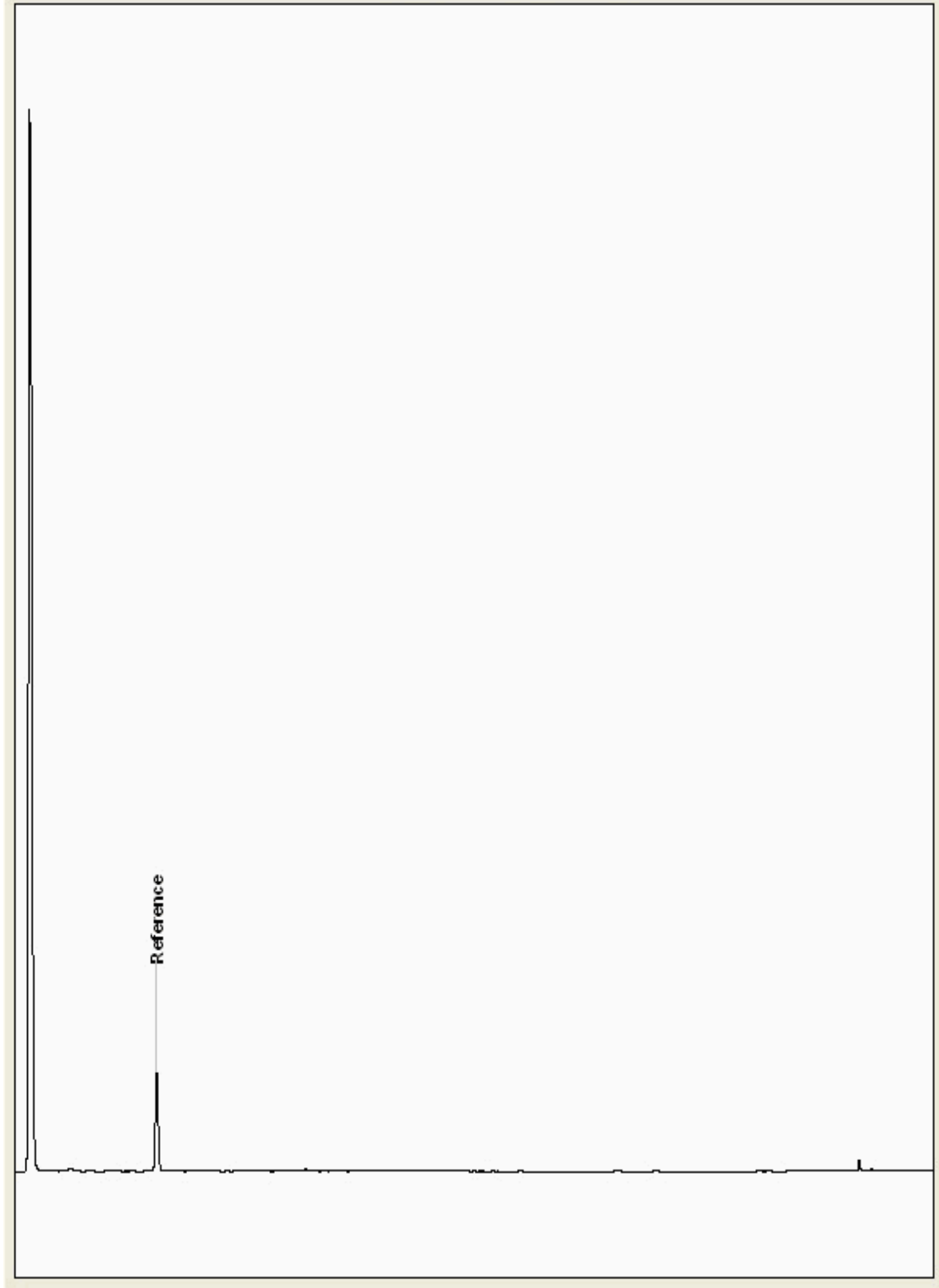
Chromatogram

Analysis: GRO by GC-FID (S)
19138317

Sample No :
Sample ID : BH218

19,138,317 **Depth :** 16.00 - 17.00

19138317_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

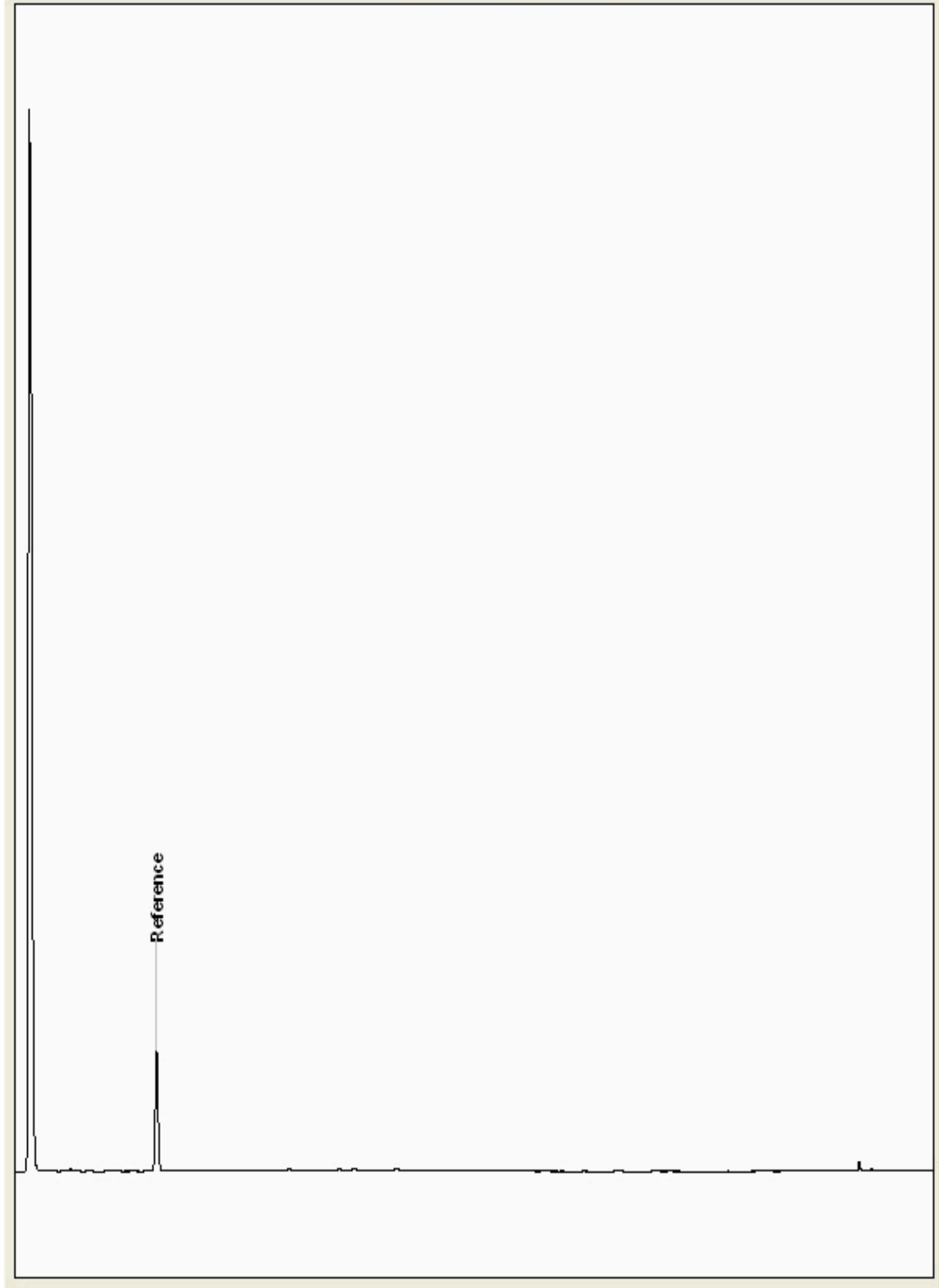
Chromatogram

Analysis: GRO by GC-FID (S)
19138324

Sample No : 19,138,324
Sample ID : BH218

Depth : 15.00 - 16.00

19138324_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

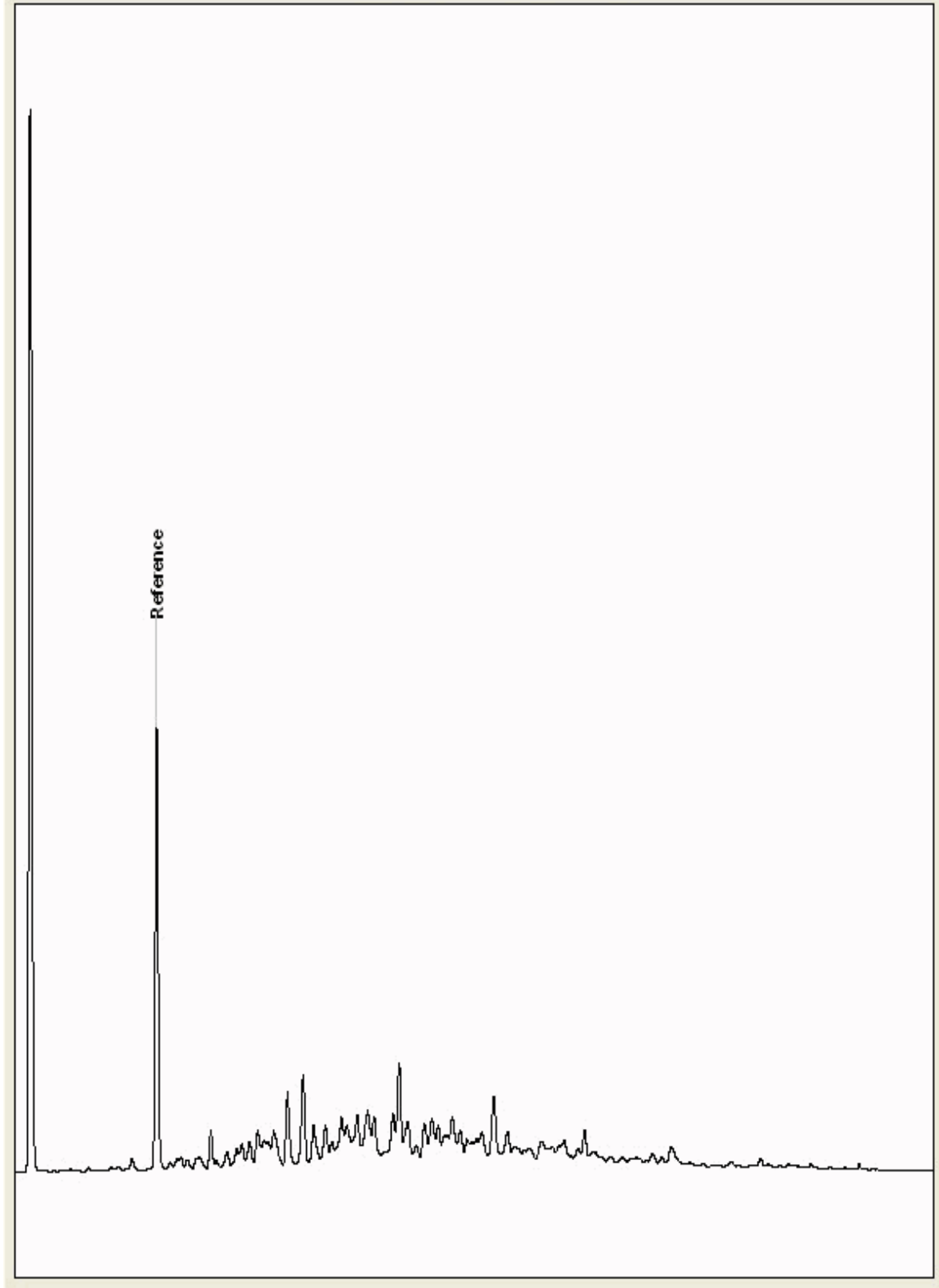
Chromatogram

Analysis: GRO by GC-FID (S)
19138661

Sample No :
Sample ID : BH219

19,138,661 Depth : 3.00 - 4.00

19138661_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

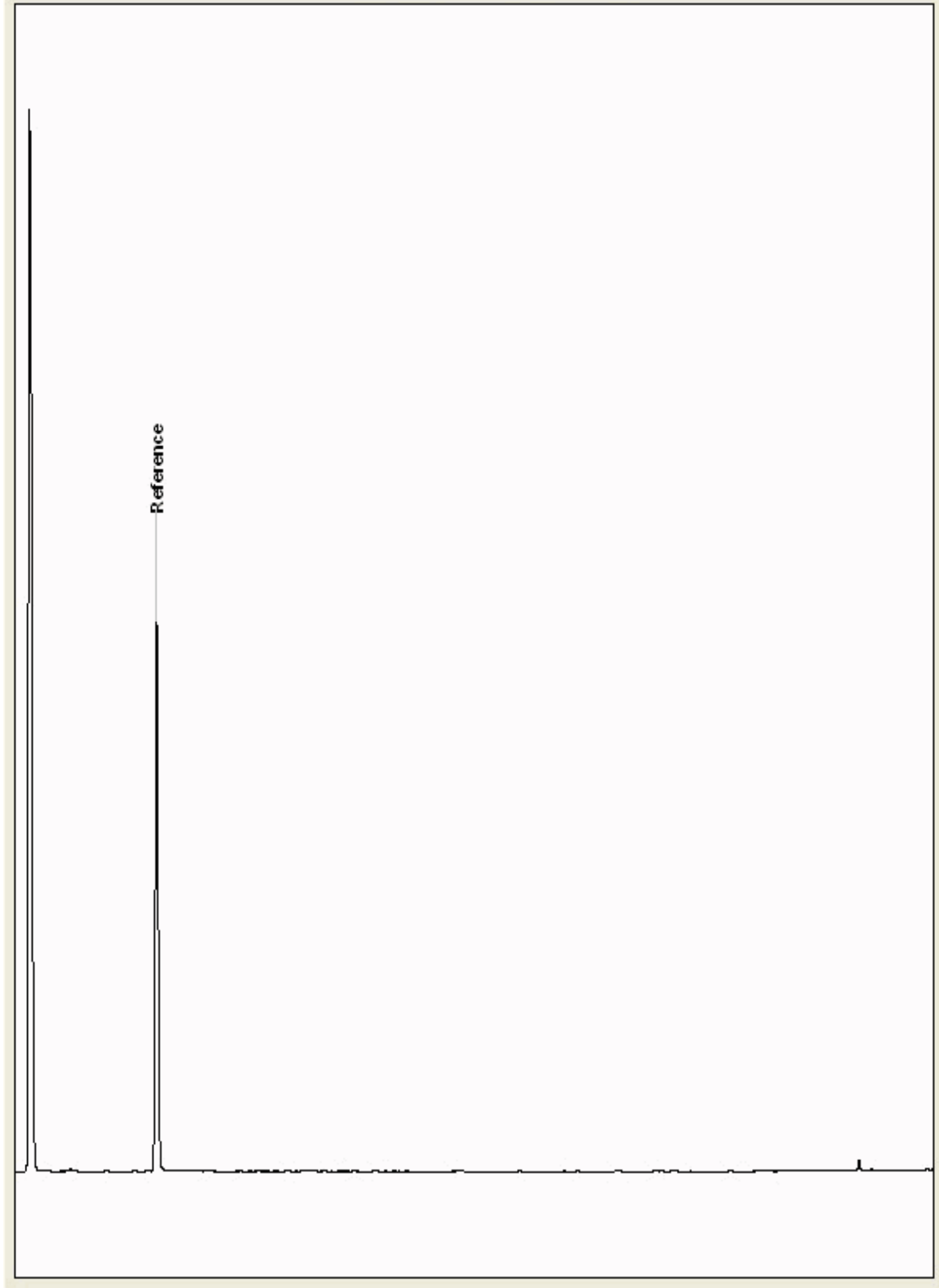
Chromatogram

Analysis: GRO by GC-FID (S)
19138696

Sample No :
Sample ID : BH219

19,138,696Depth :0.00 - 0.50

19138696_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

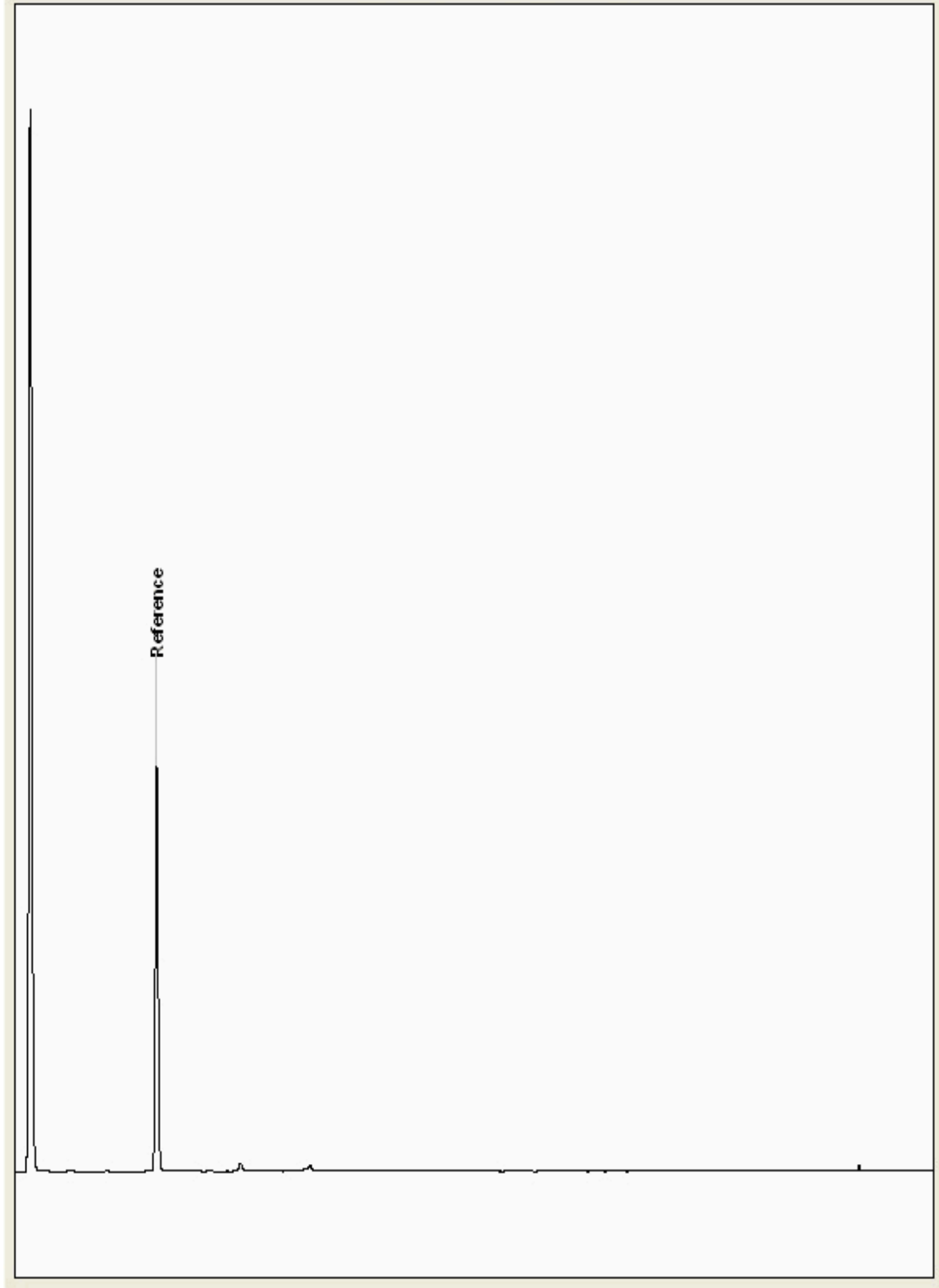
Chromatogram

Analysis: GRO by GC-FID (S)
19139195

Sample No :
Sample ID : BH223

19,139,195Depth :7.00 - 8.00

19139195_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

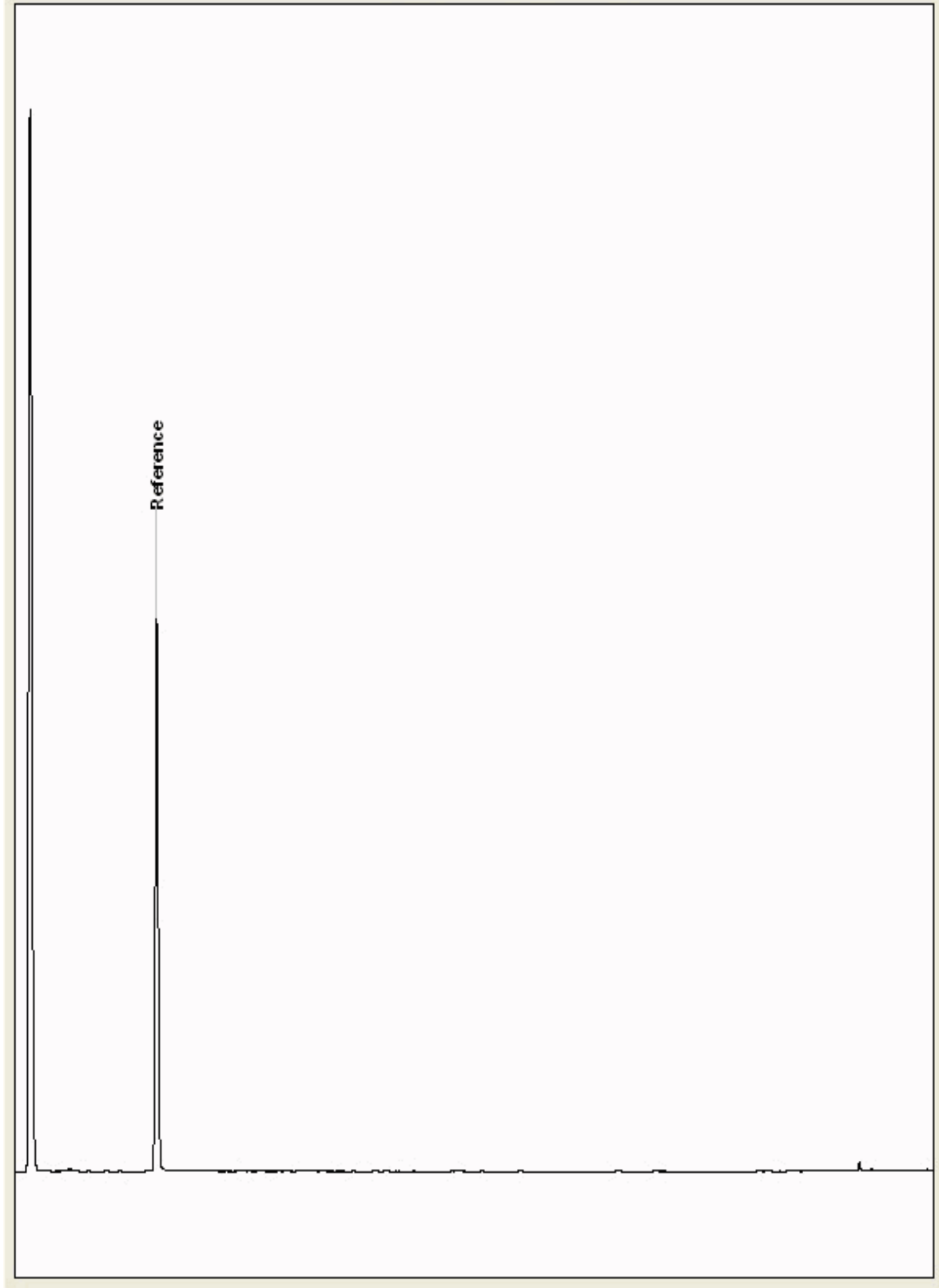
Chromatogram

Analysis: GRO by GC-FID (S)
19139237

Sample No :
Sample ID : BH235

19,139,237Depth :3.00 - 4.00

19139237_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

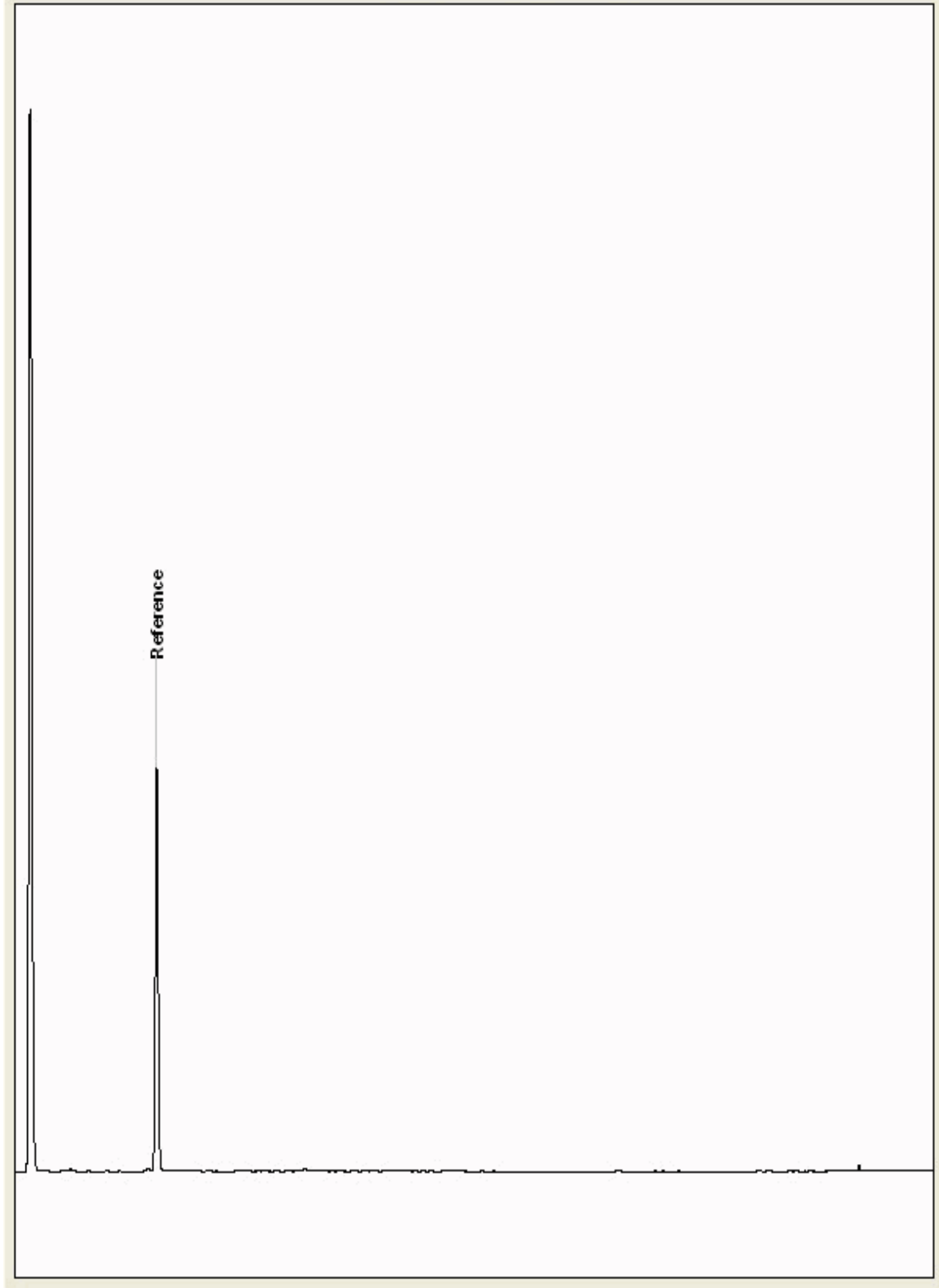
Chromatogram

Analysis: GRO by GC-FID (S)
19139328

Sample No :
Sample ID : BH235

19,139,328 Depth : 0.50 - 1.00

19139328_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

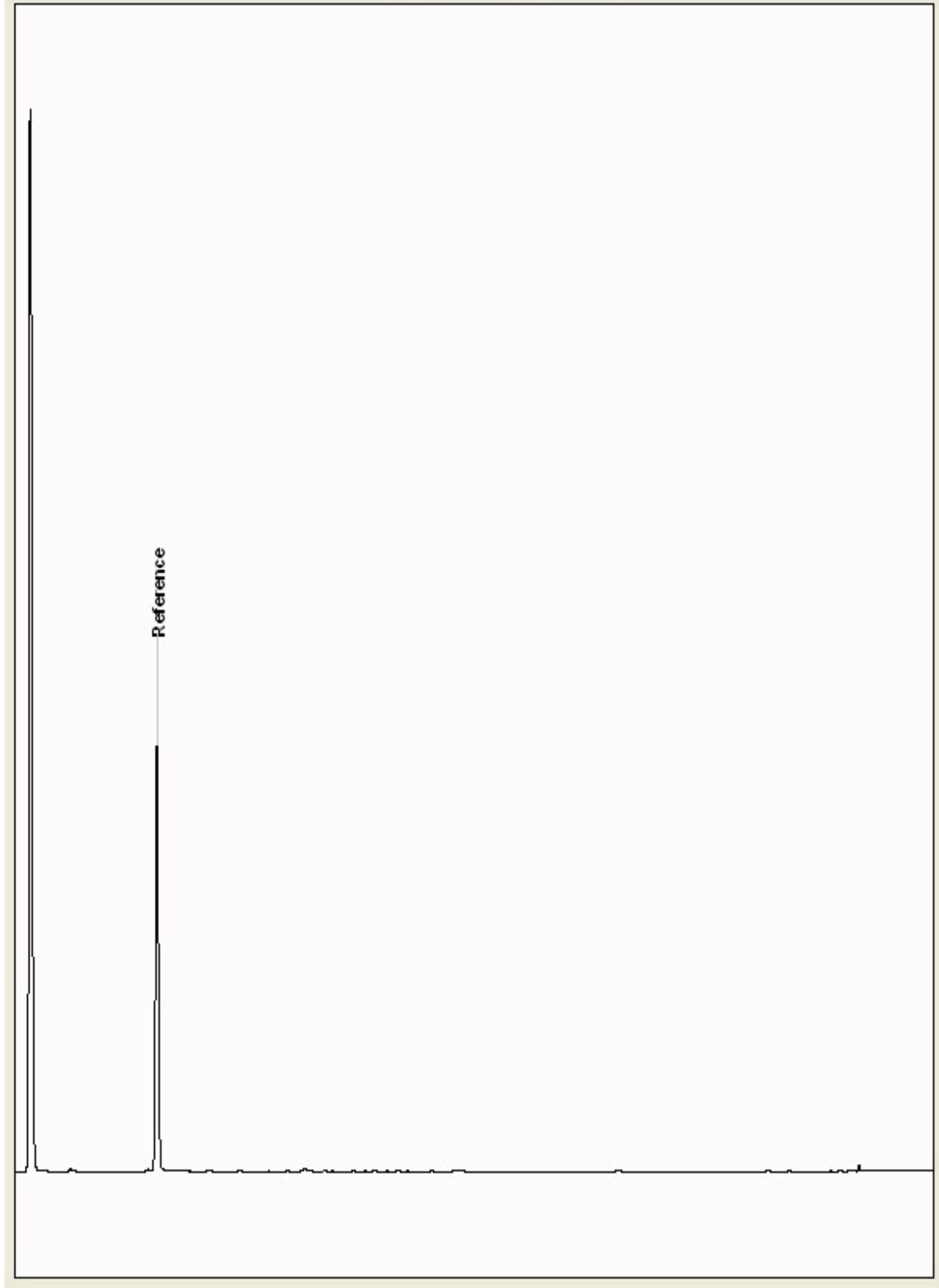
Chromatogram

Analysis: GRO by GC-FID (S)
19141842

Sample No :
Sample ID : BH223

19,141,842Depth : 10.00 - 11.00

19141842_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

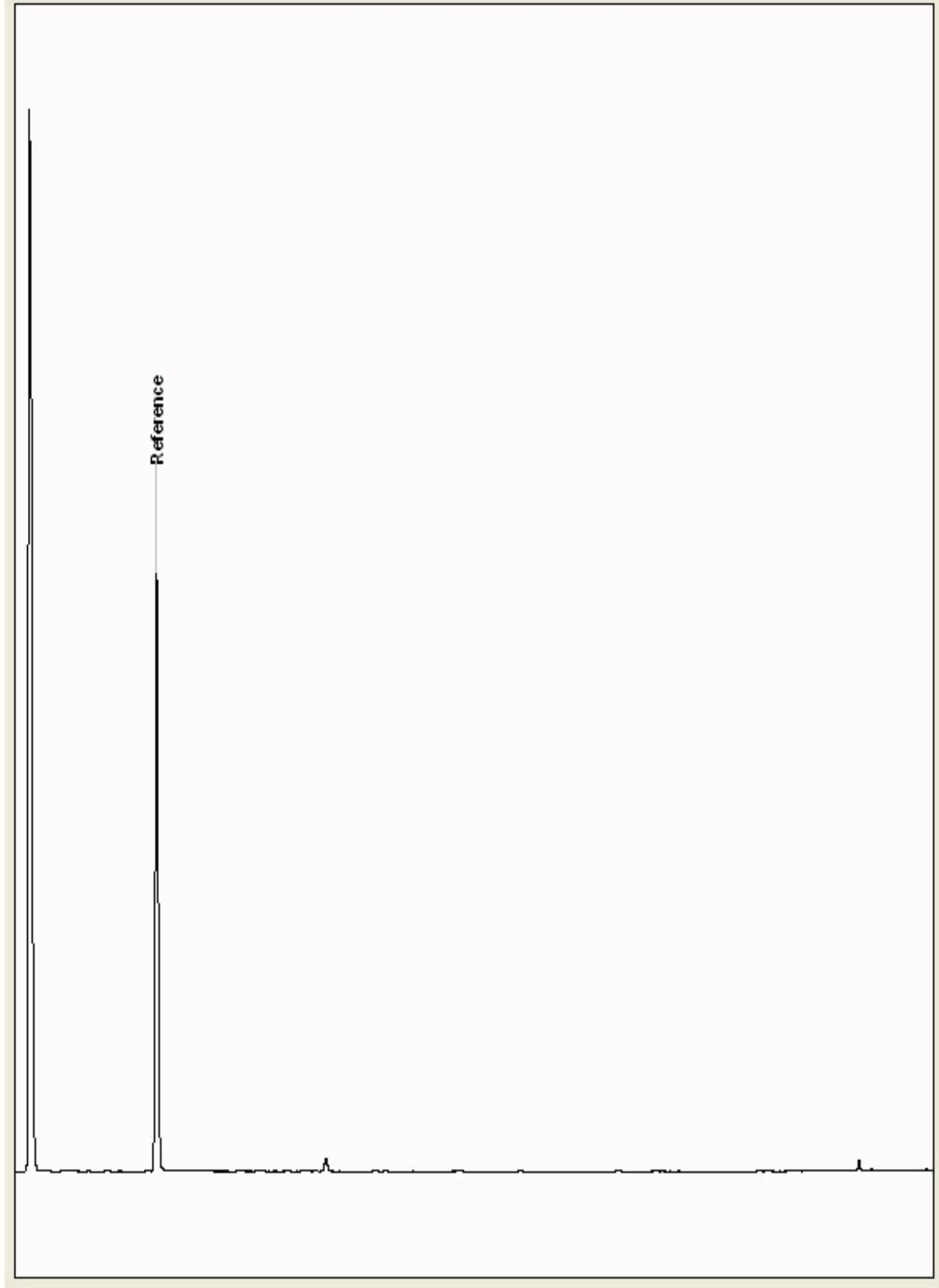
Chromatogram

Analysis: GRO by GC-FID (S)
19141866

Sample No :
Sample ID : BH235

19,141,866Depth : 1.00 - 2.00

19141866_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

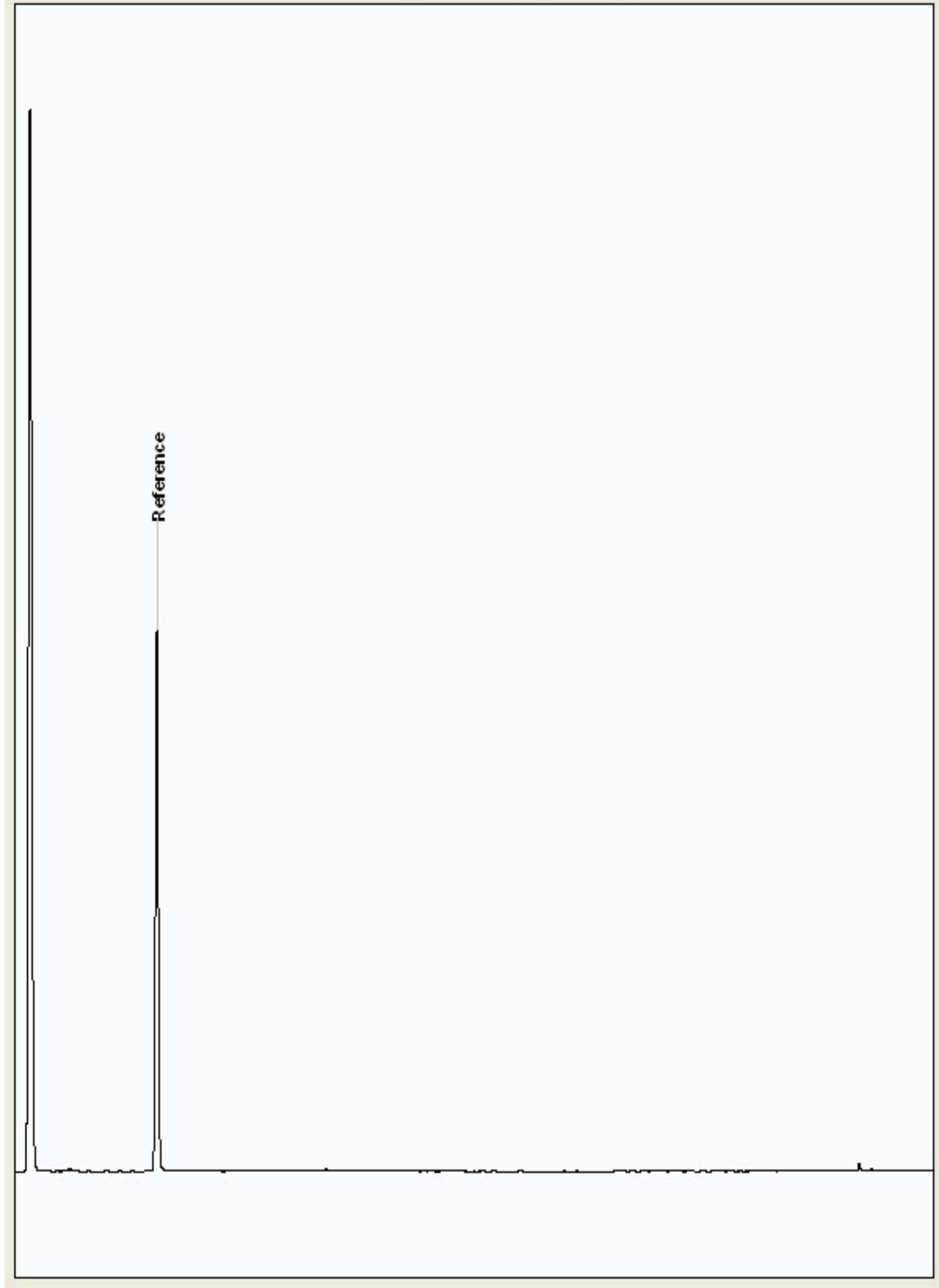
Chromatogram

Analysis: GRO by GC-FID (S)
19141889

Sample No :
Sample ID : BH218

19,141,889Depth :3.00 - 4.00

19141889_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

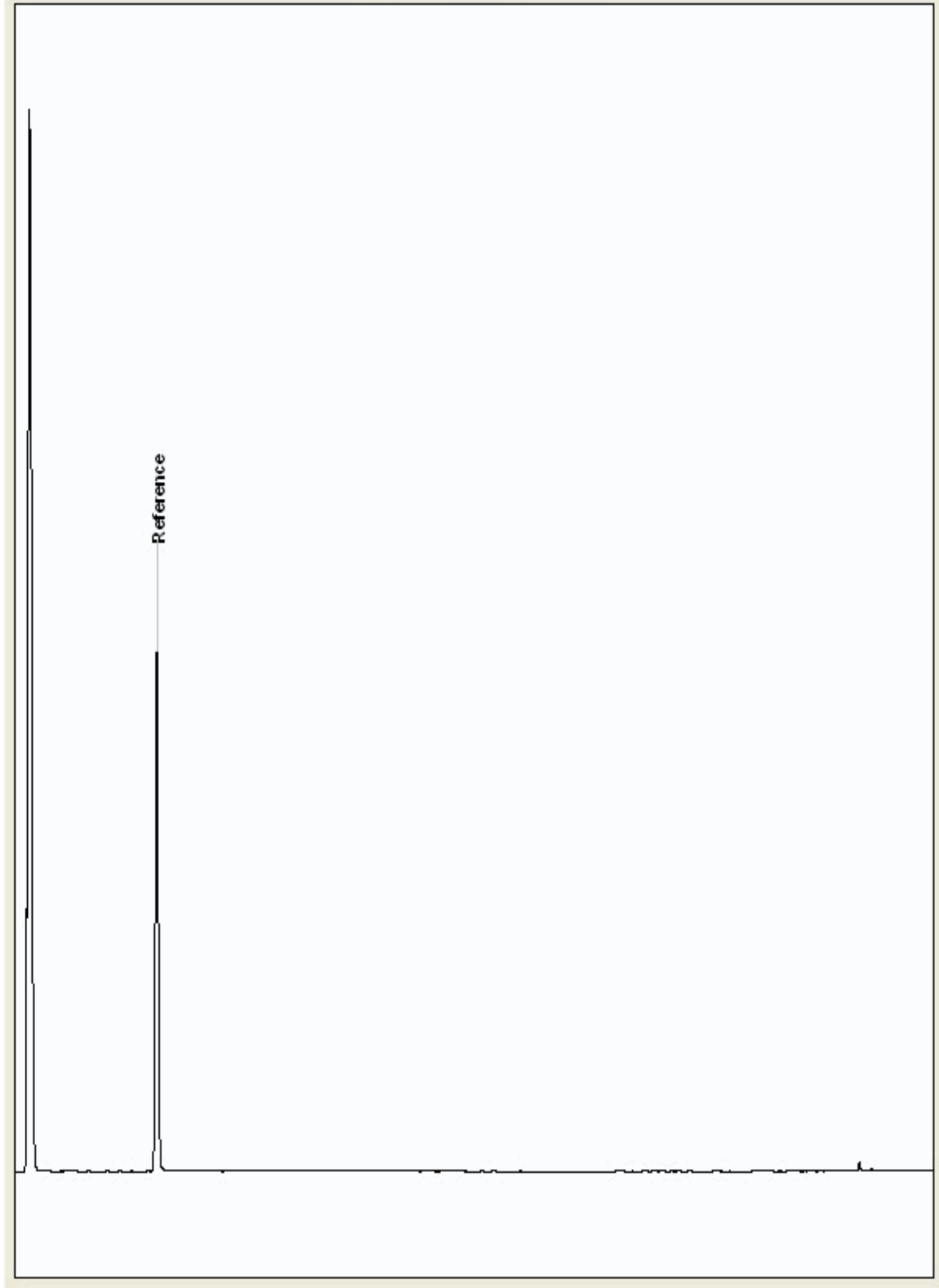
Chromatogram

Analysis: GRO by GC-FID (S)
19141967

Sample No :
Sample ID : BH218

19,141,967Depth :2.00 - 3.00

19141967_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

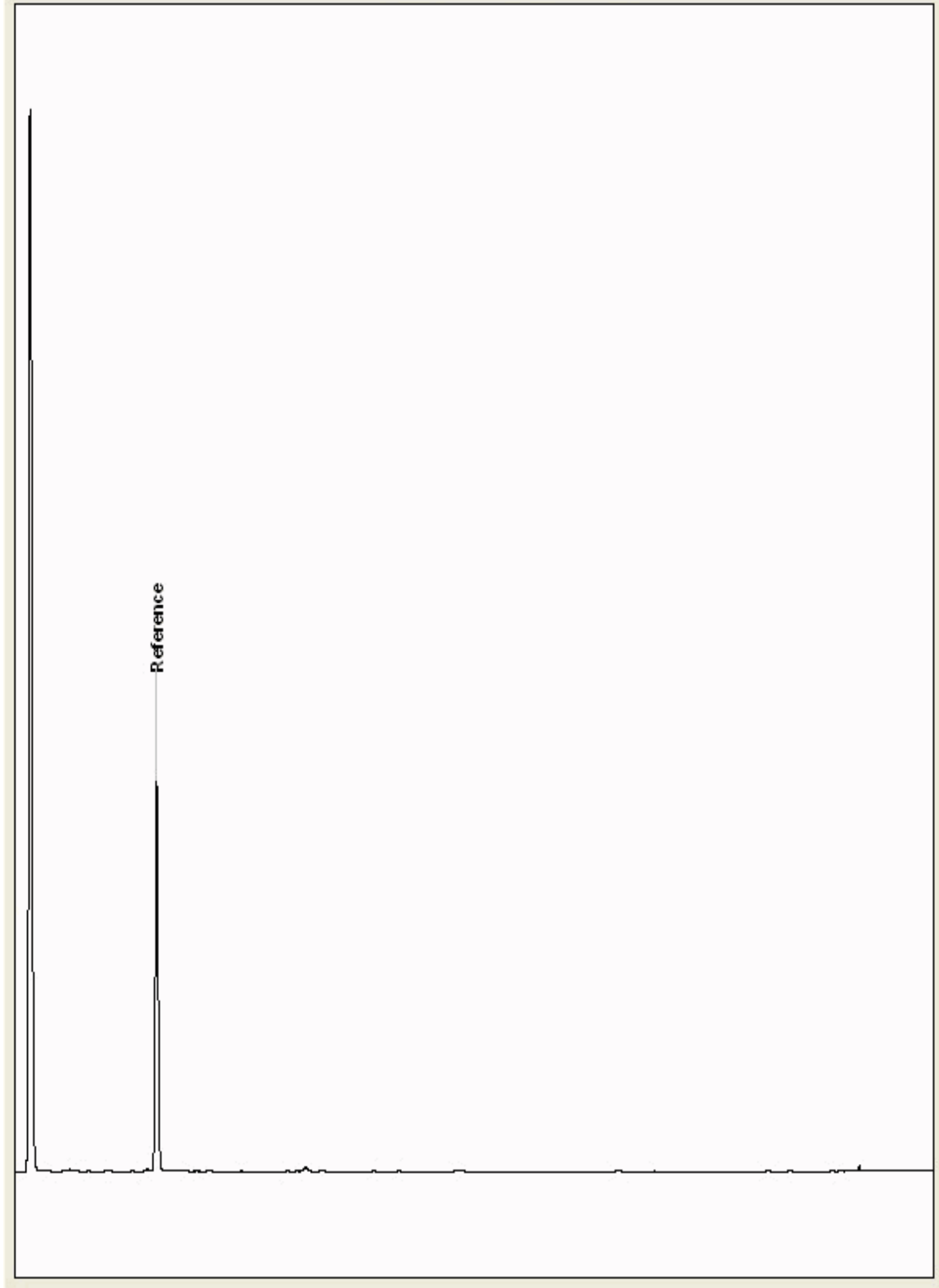
Chromatogram

Analysis: GRO by GC-FID (S)
19142925

Sample No :
Sample ID : BH235

19,142,925Depth :7.00 - 8.00

19142925_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

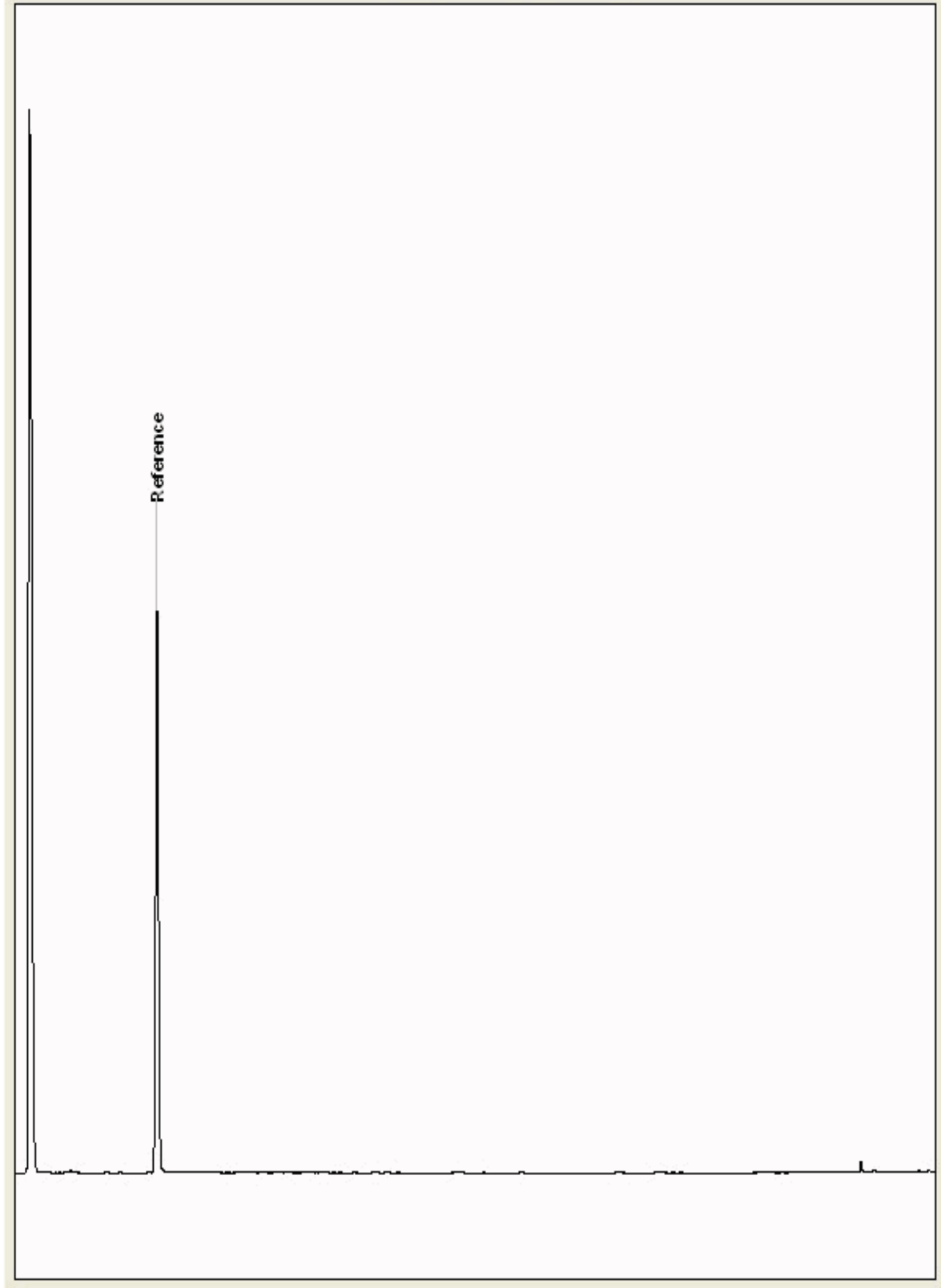
Chromatogram

Analysis: GRO by GC-FID (S)
19143059

Sample No :
Sample ID : BH235

19,143,059 **Depth :** 2.00 - 3.00

19143059_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

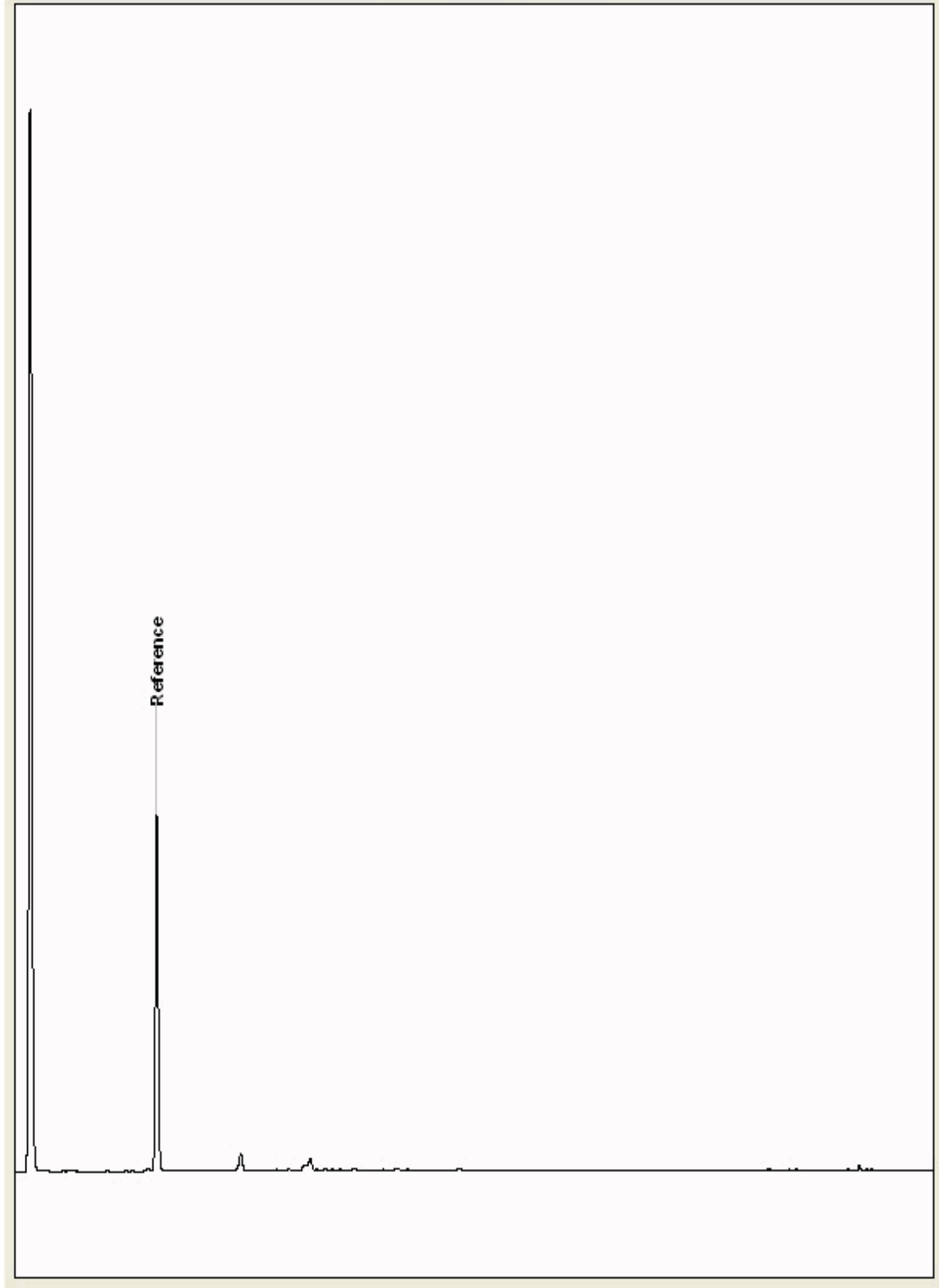
Chromatogram

Analysis: GRO by GC-FID (S)
19143084

Sample No :
Sample ID : BH223

19,143,084Depth :6.00 - 7.00

19143084_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

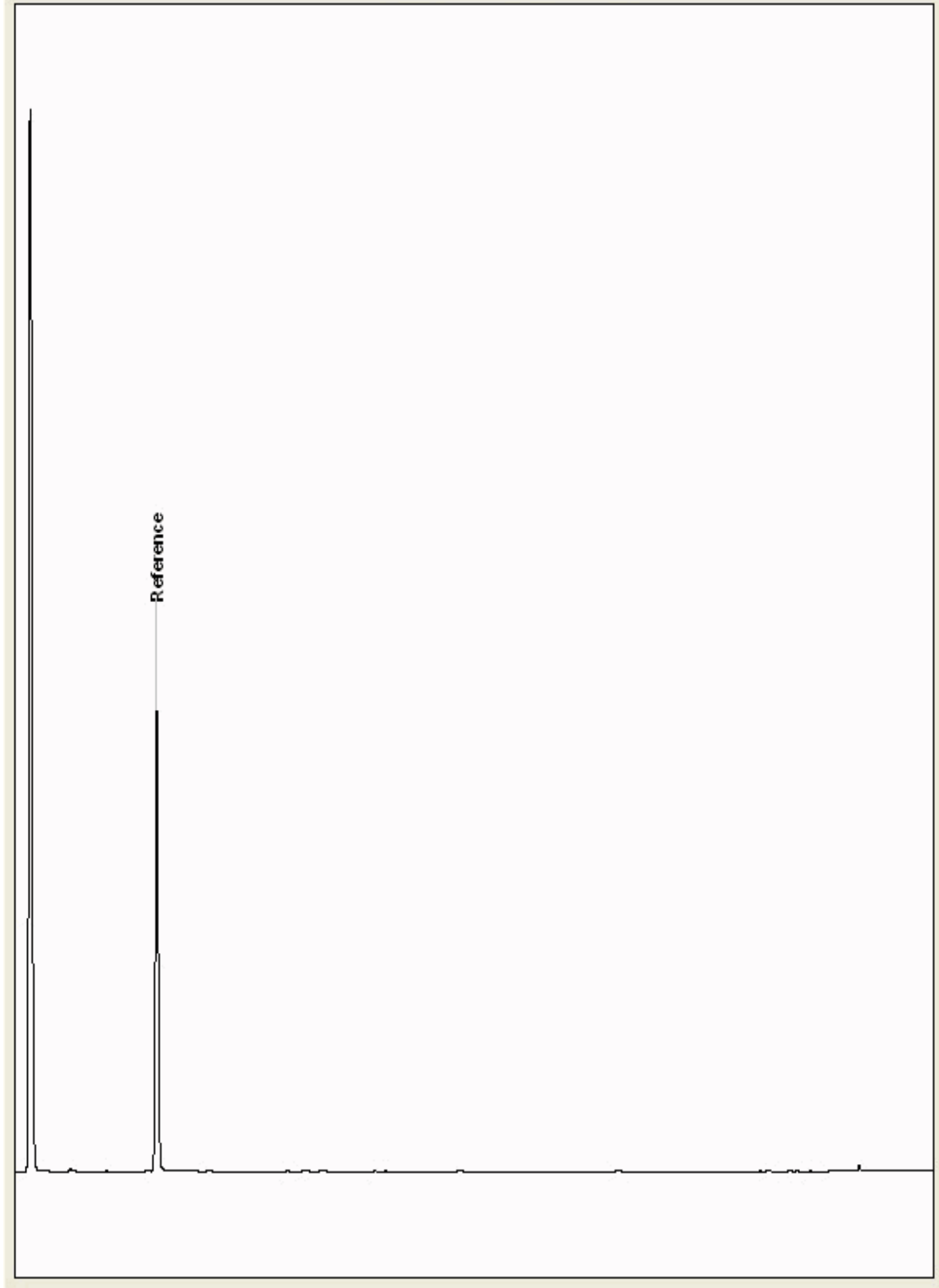
Chromatogram

Analysis: GRO by GC-FID (S)
19143223

Sample No :
Sample ID : BH235

19,143,223Depth :4.00 - 5.00

19143223_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19146441

Sample No :
Sample ID : BH224

19,146,441 **Depth :** 9.00 - 11.00

19146441_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

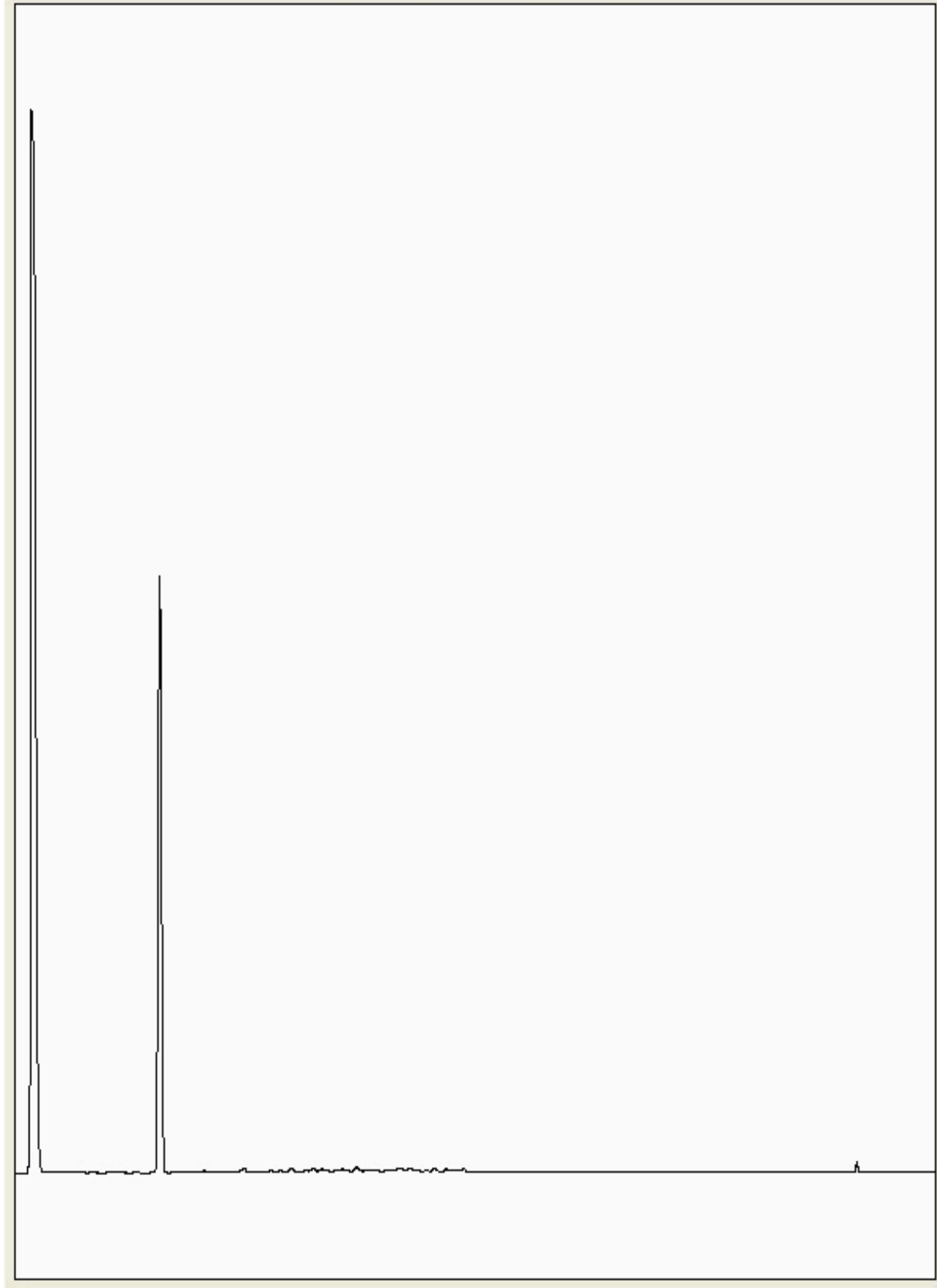
Chromatogram

Analysis: GRO by GC-FID (S)
19146632

Sample No :
Sample ID : BH223

19,146,632 **Depth :** 0.00 - 1.00

19146632_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

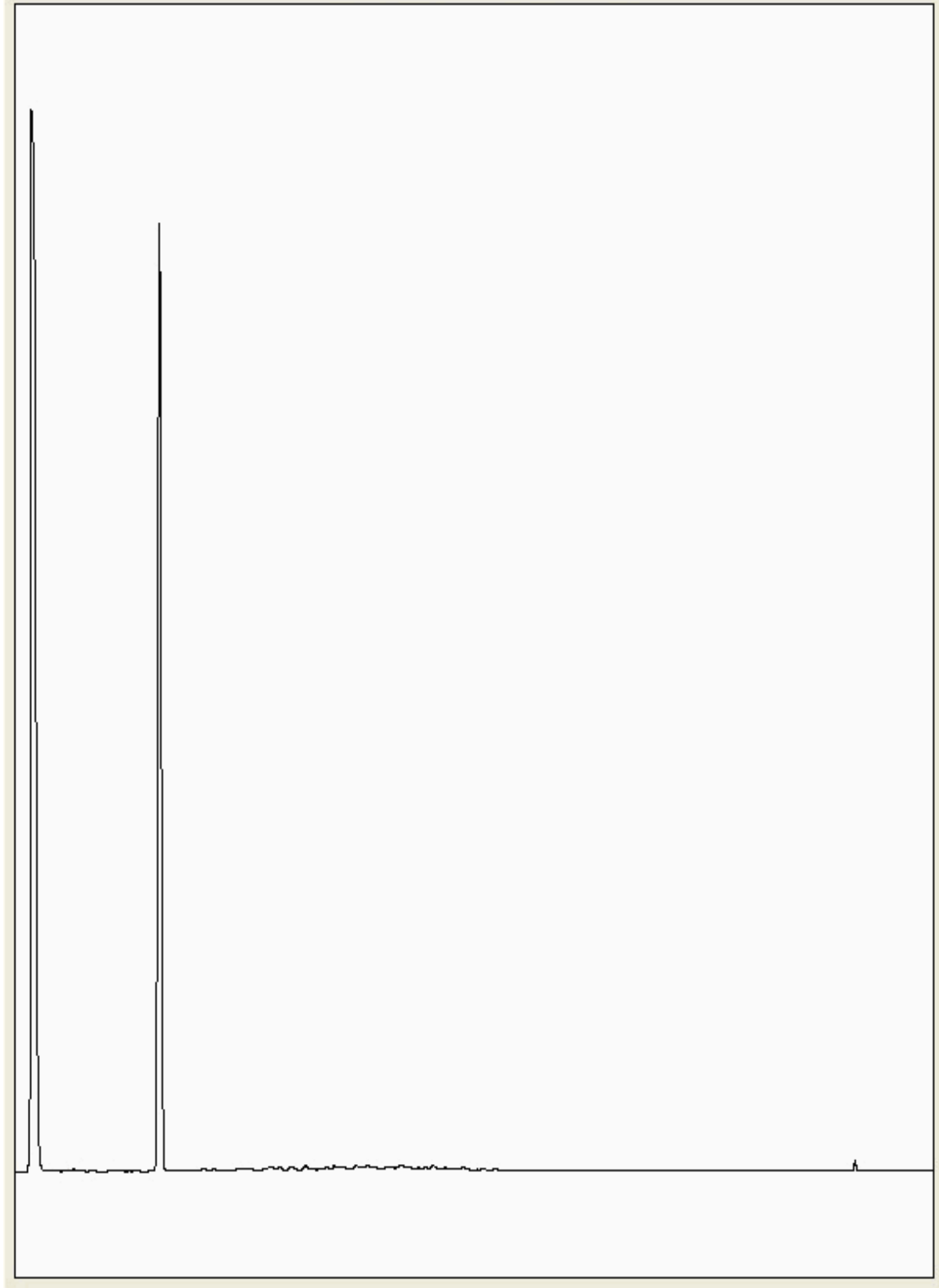
Chromatogram

Analysis: GRO by GC-FID (S)
19146743

Sample No :
Sample ID : BH224

19,146,743 **Depth :** 11.00 - 12.00

19146743_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

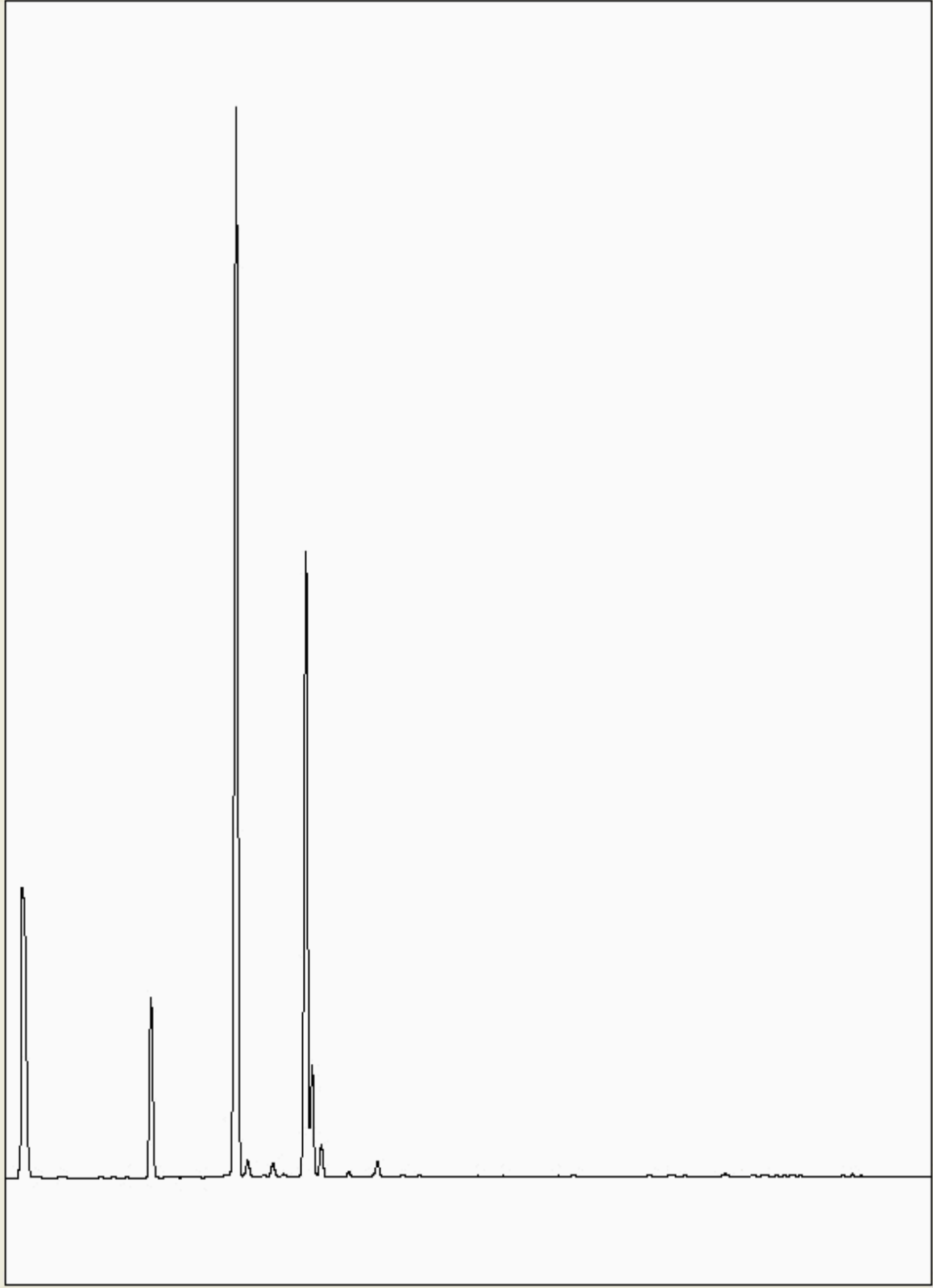
Chromatogram

Analysis: GRO by GC-FID (S)
19146825

Sample No :
Sample ID : BH223

19,146,825 **Depth :** 4.00 - 5.00

19146825_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

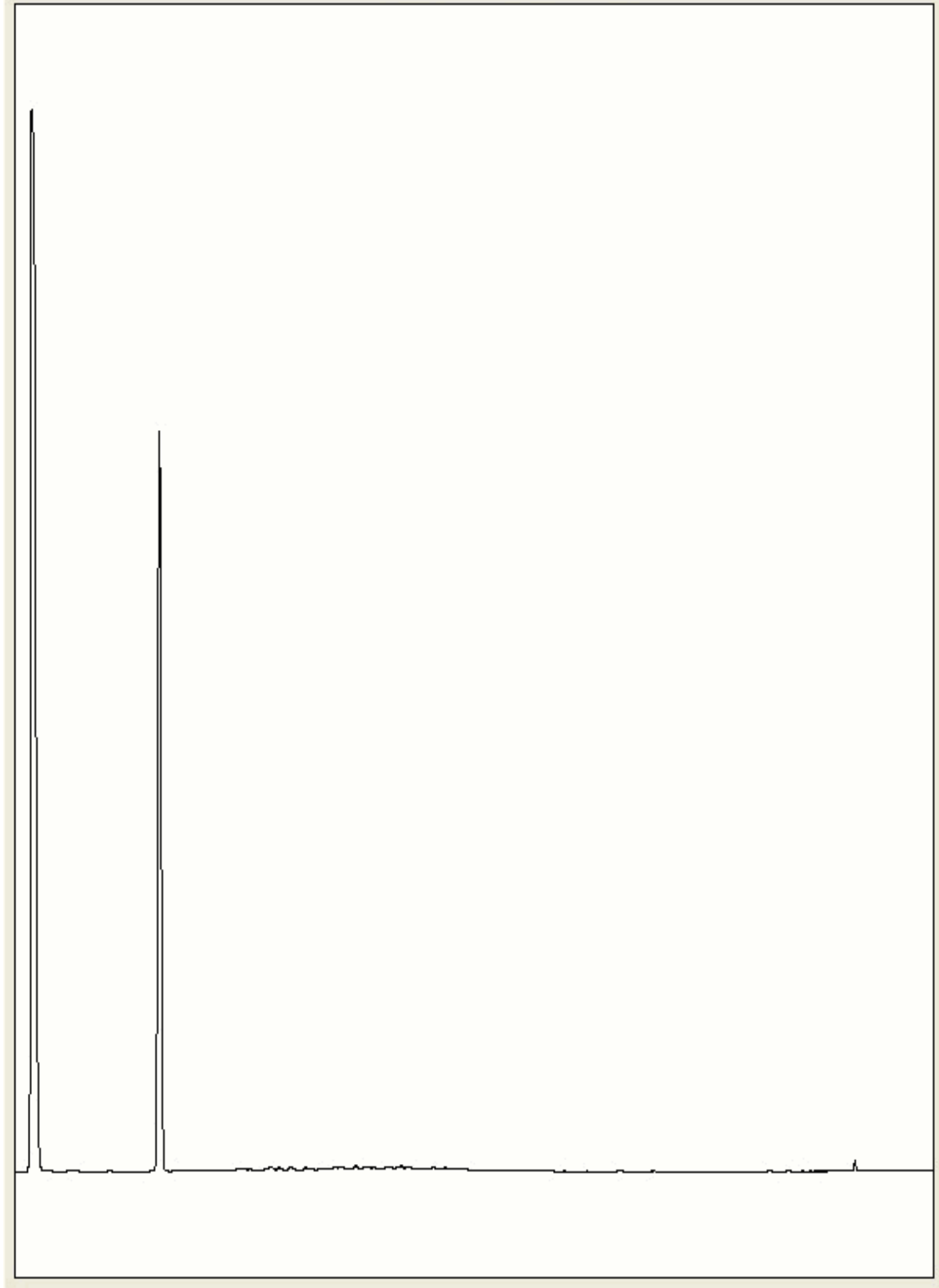
Chromatogram

Analysis: GRO by GC-FID (S)
19147120

Sample No :
Sample ID : BH218

19,147,120 **Depth :** 10.00 - 11.00

19147120_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

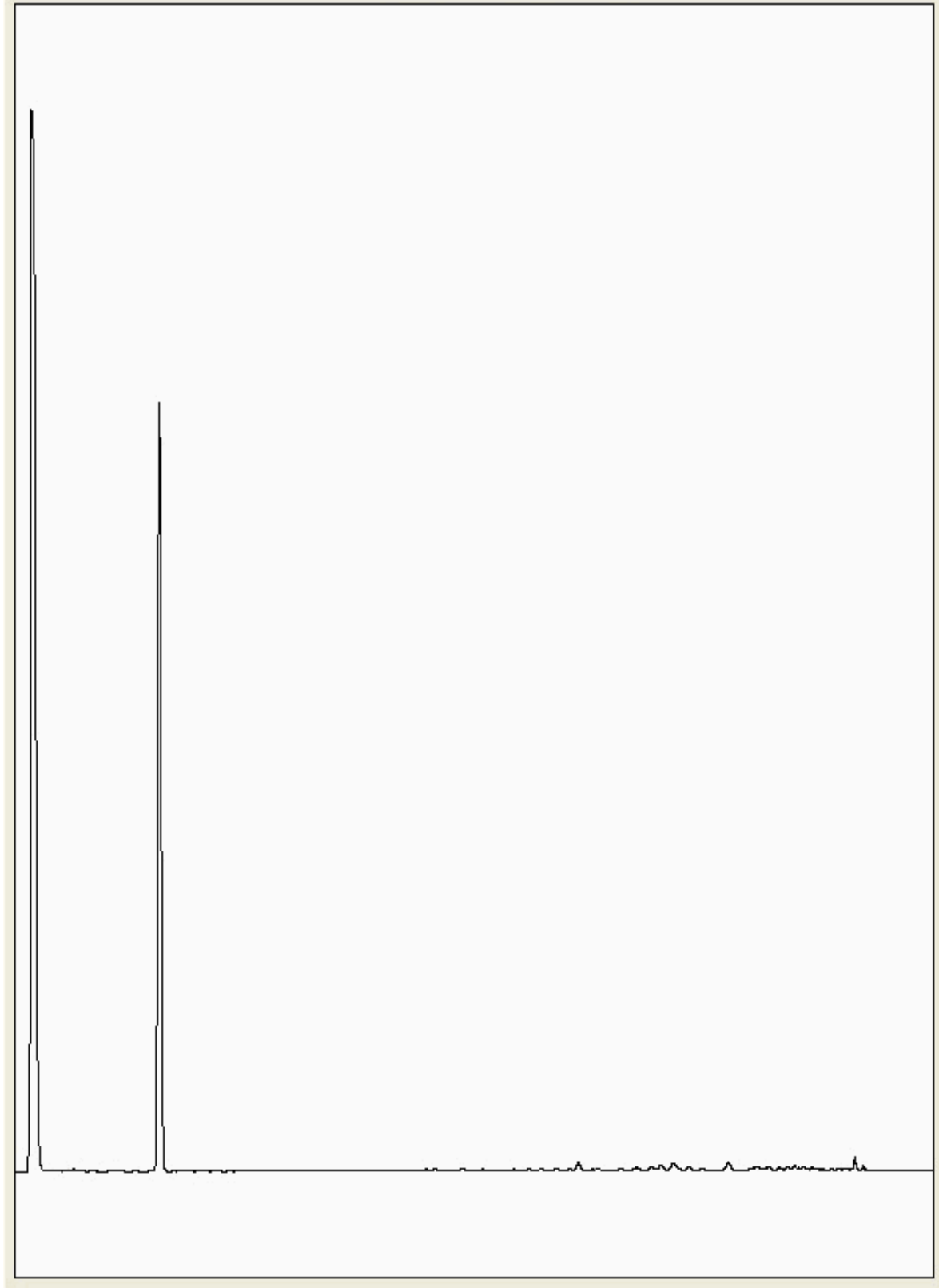
Chromatogram

Analysis: GRO by GC-FID (S)
19147178

Sample No :
Sample ID : BH222

19,147,178 **Depth :** 6.00 - 7.00

19147178_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

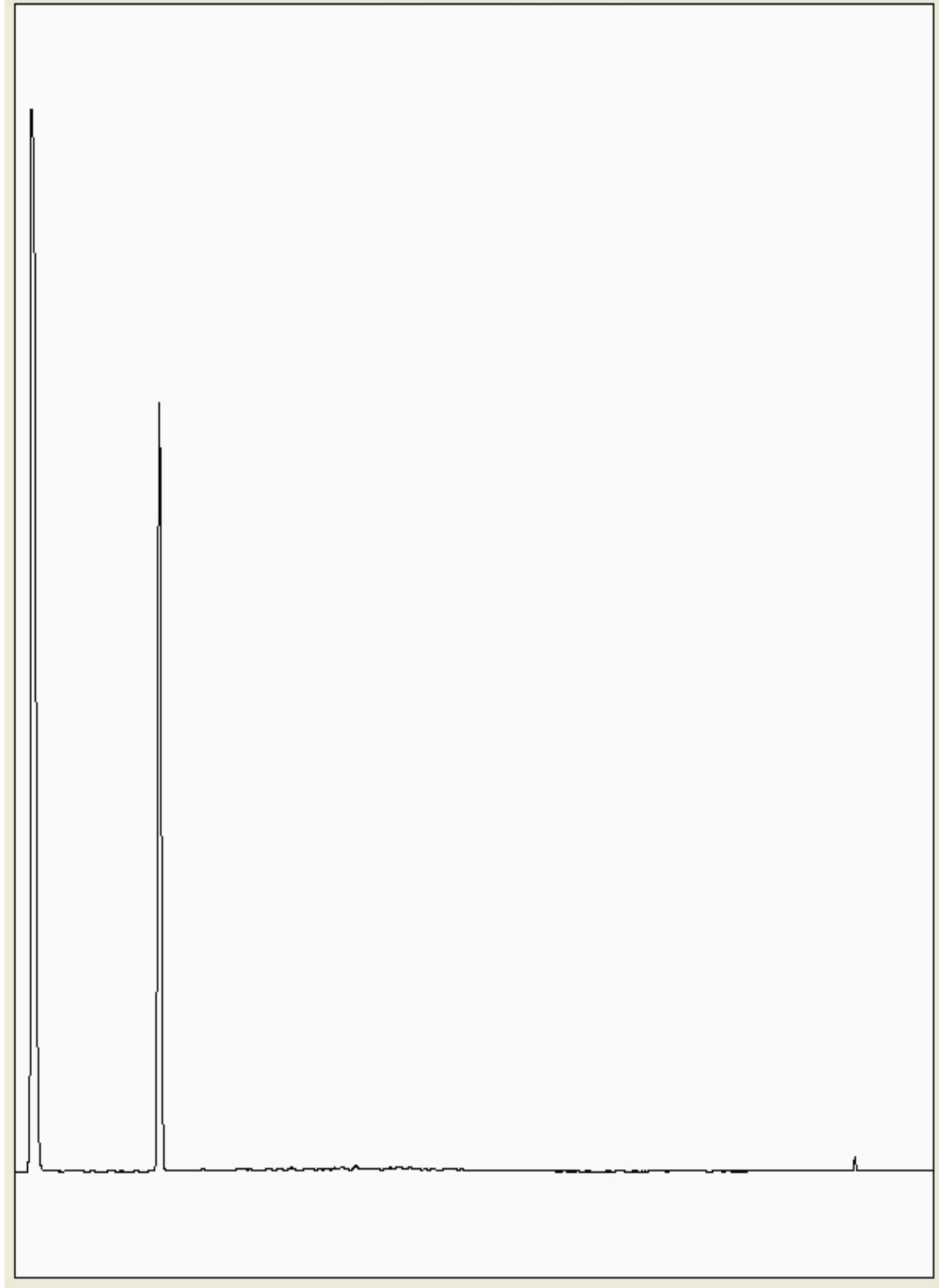
Chromatogram

Analysis: GRO by GC-FID (S)
19147199

Sample No :
Sample ID : BH218

19,147,199Depth :9.00 - 10.00

19147199_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

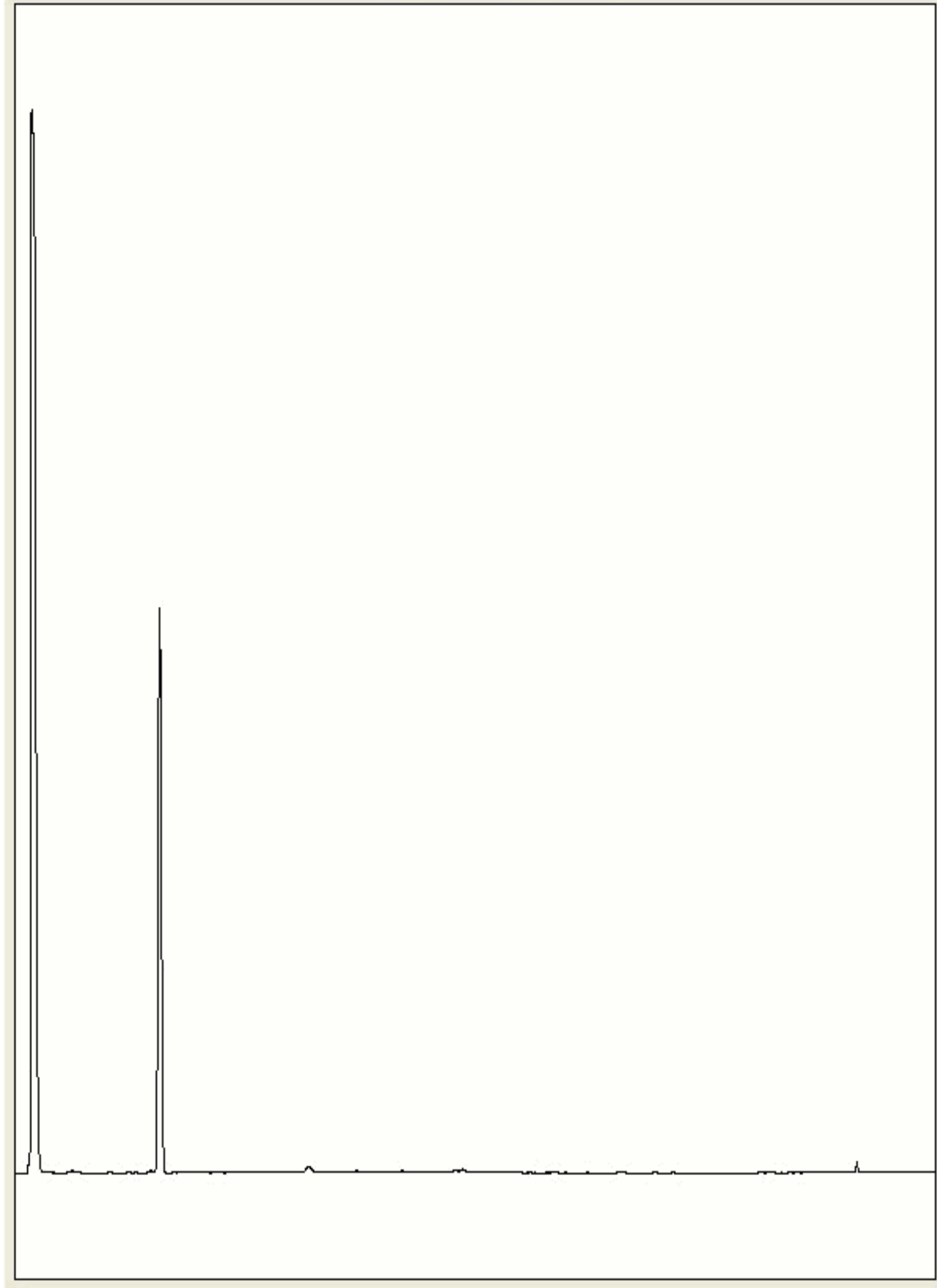
Chromatogram

Analysis: GRO by GC-FID (S)
19147214

Sample No :
Sample ID : BH219

19,147,214**Depth :**9.00 - 10.00

19147214_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

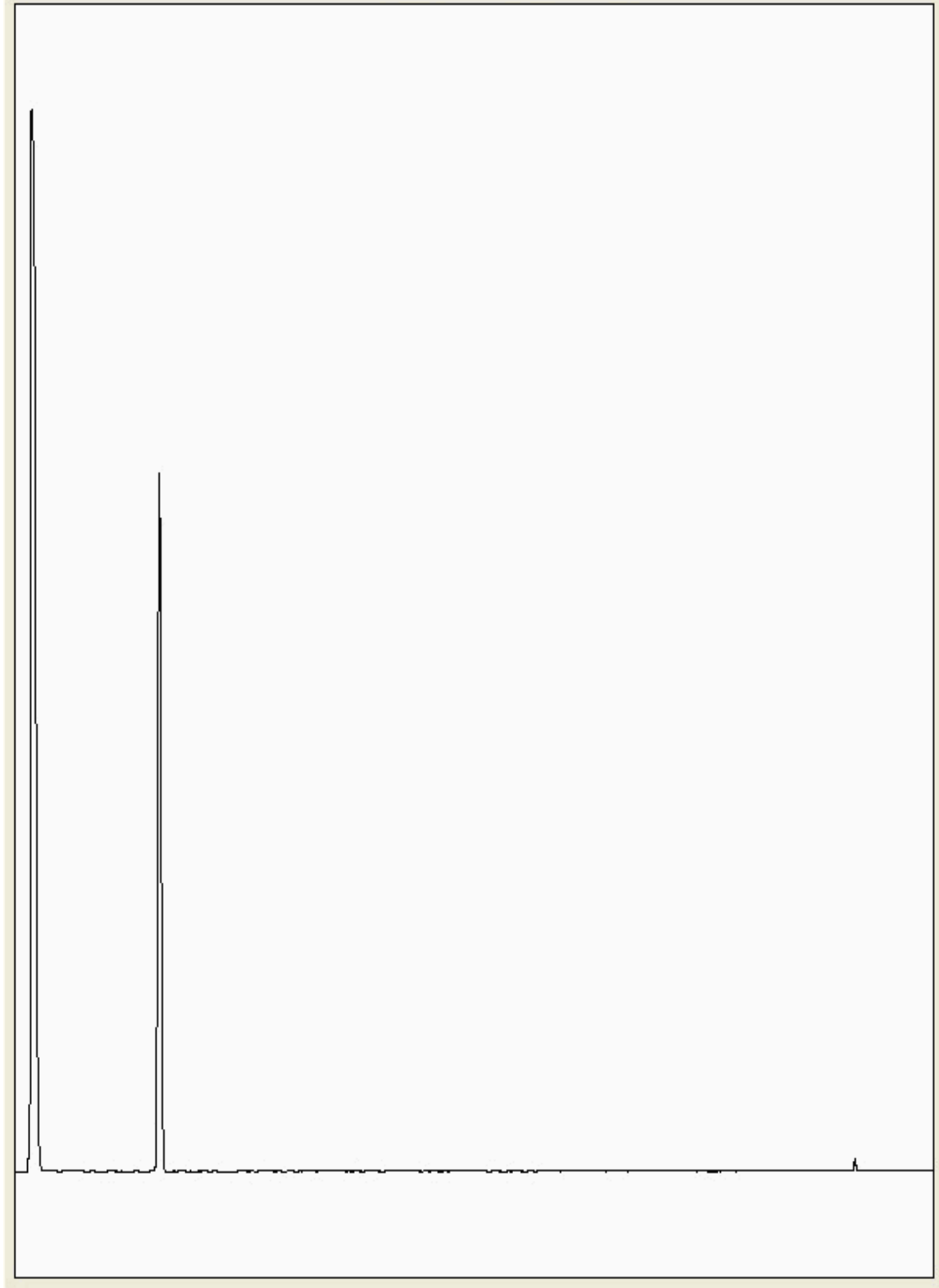
Chromatogram

Analysis: GRO by GC-FID (S)
19147233

Sample No :
Sample ID : BH222

19,147,233**Depth :** 7.00 - 9.00

19147233_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

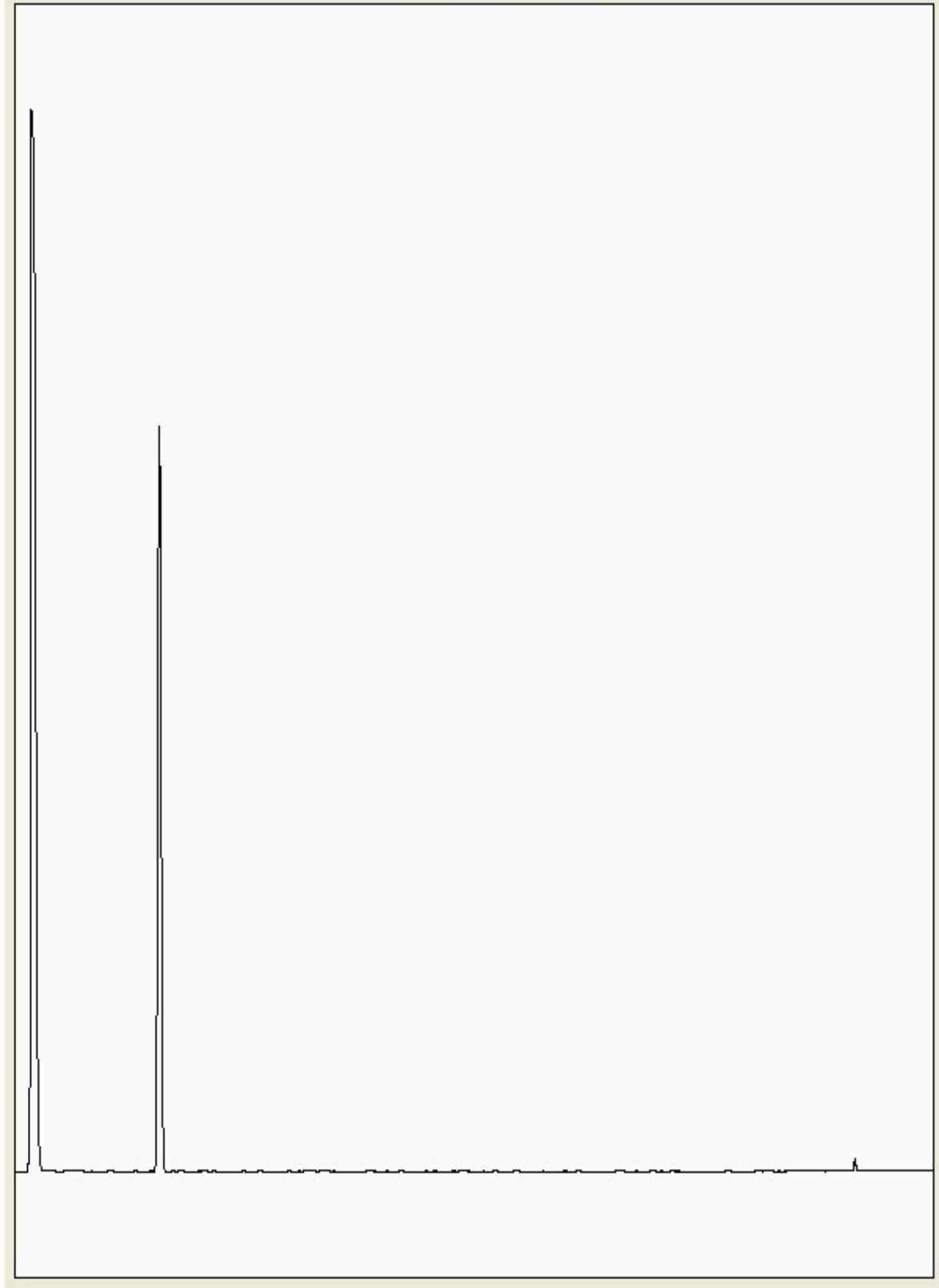
Chromatogram

Analysis: GRO by GC-FID (S)
19147239

Sample No :
Sample ID : BH222

19,147,239**Depth :**9.00 - 10.00

19147239_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

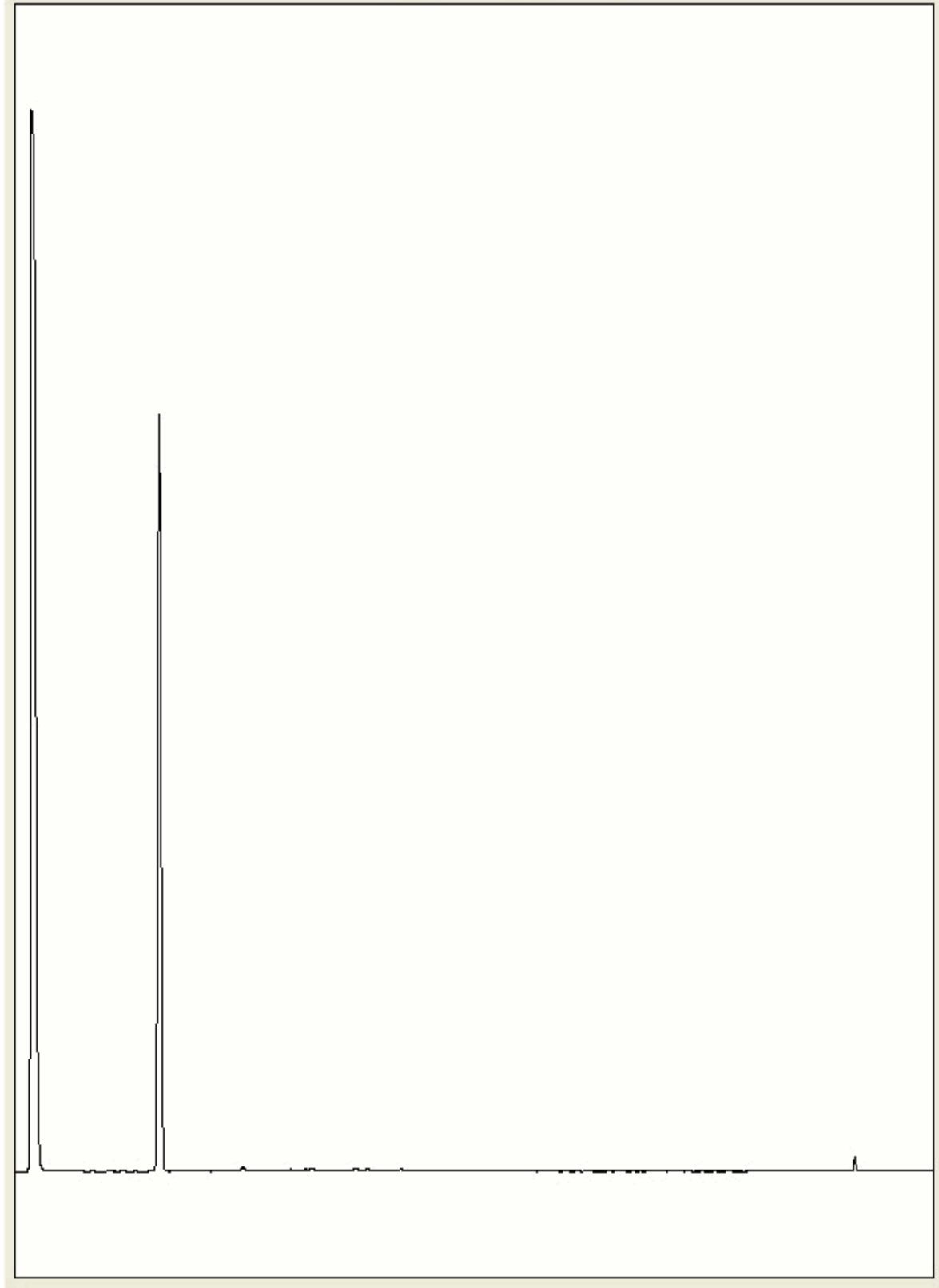
Chromatogram

Analysis: GRO by GC-FID (S)
19147279

Sample No :
Sample ID : BH222

19,147,279 **Depth :** 1.00 - 2.00

19147279_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

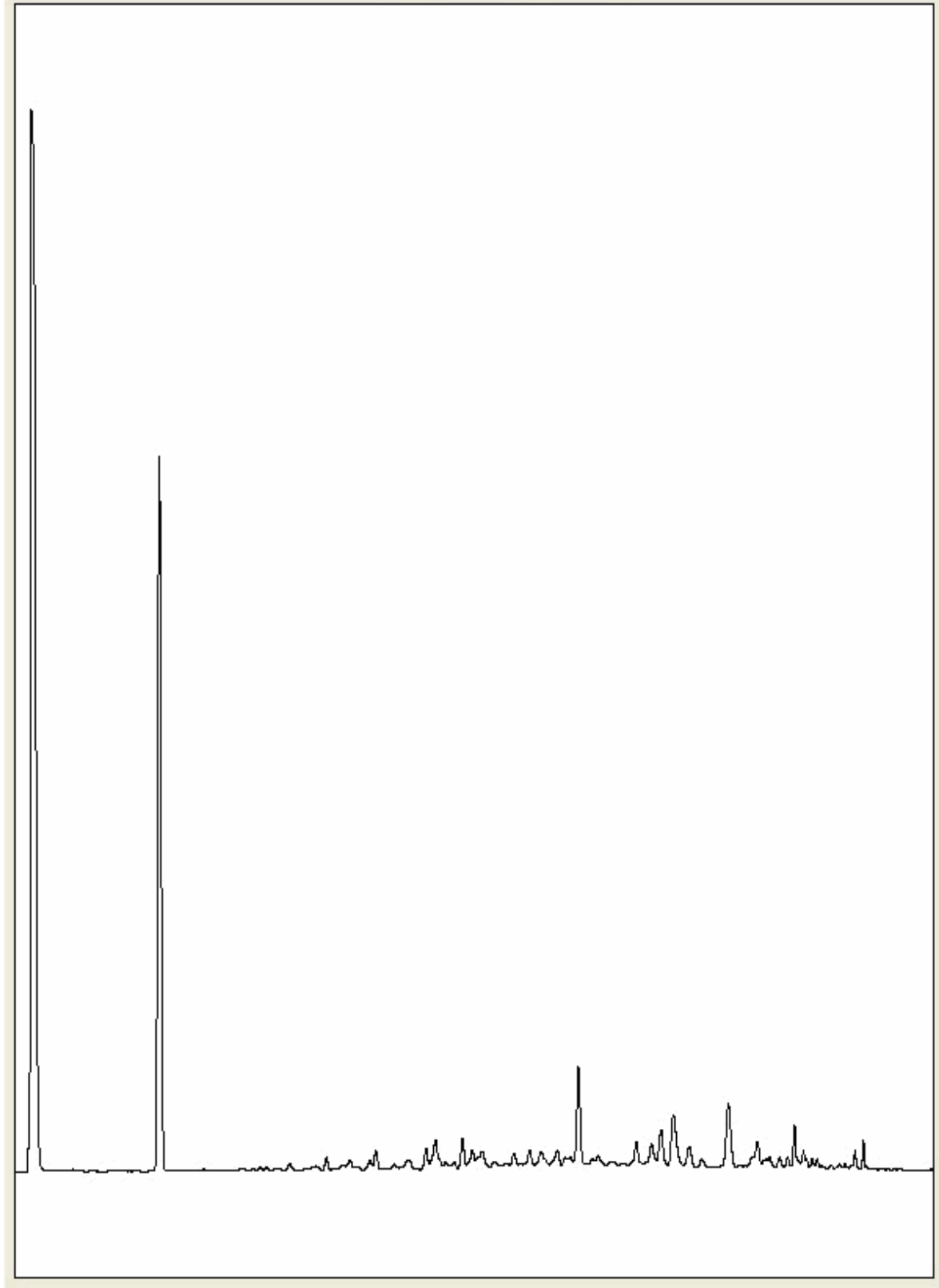
Chromatogram

Analysis: GRO by GC-FID (S)
19147290

Sample No :
Sample ID : BH222

19,147,290 **Depth :** 4.00 - 5.00

19147290_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

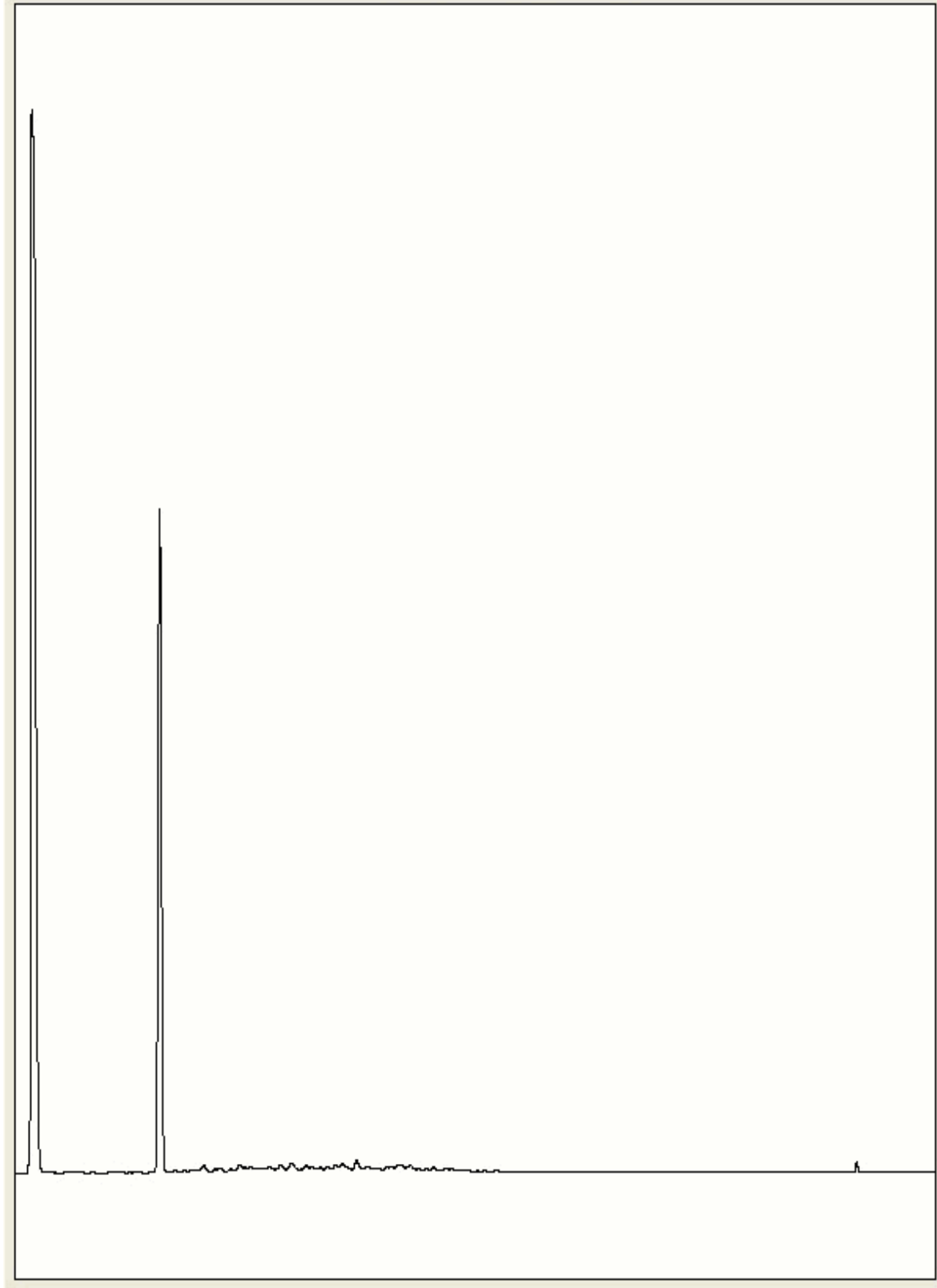
Chromatogram

Analysis: GRO by GC-FID (S)
19147388

Sample No :
Sample ID : BH219

19,147,388Depth :8.00 - 9.00

19147388_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

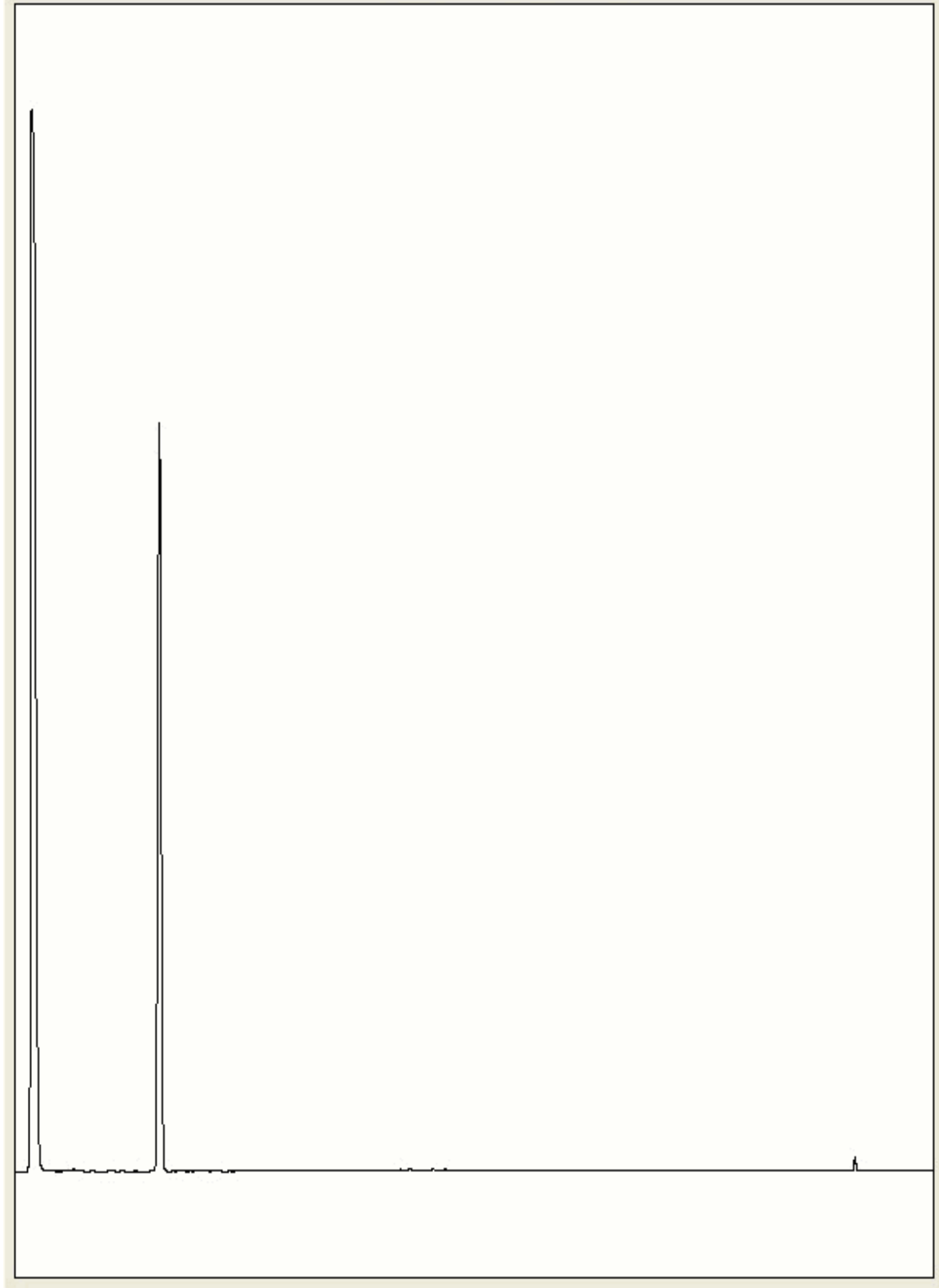
Chromatogram

Analysis: GRO by GC-FID (S)
19147459

Sample No :
Sample ID : BH218

19,147,459Depth :0.00 - 0.50

19147459_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

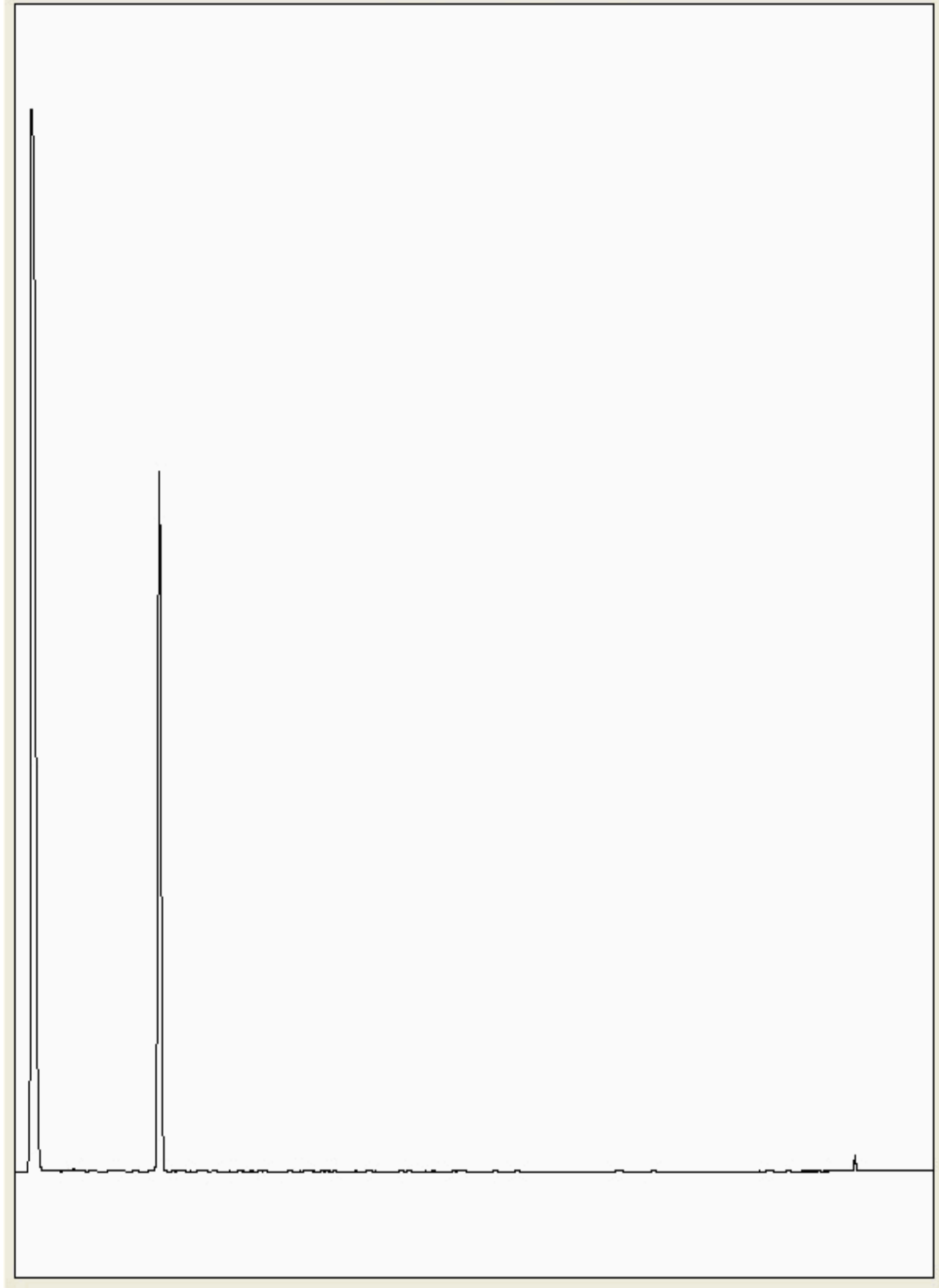
Chromatogram

Analysis: GRO by GC-FID (S)
19150426

Sample No :
Sample ID : BH235

19,150,426**Depth :**8.00 - 9.00

19150426_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

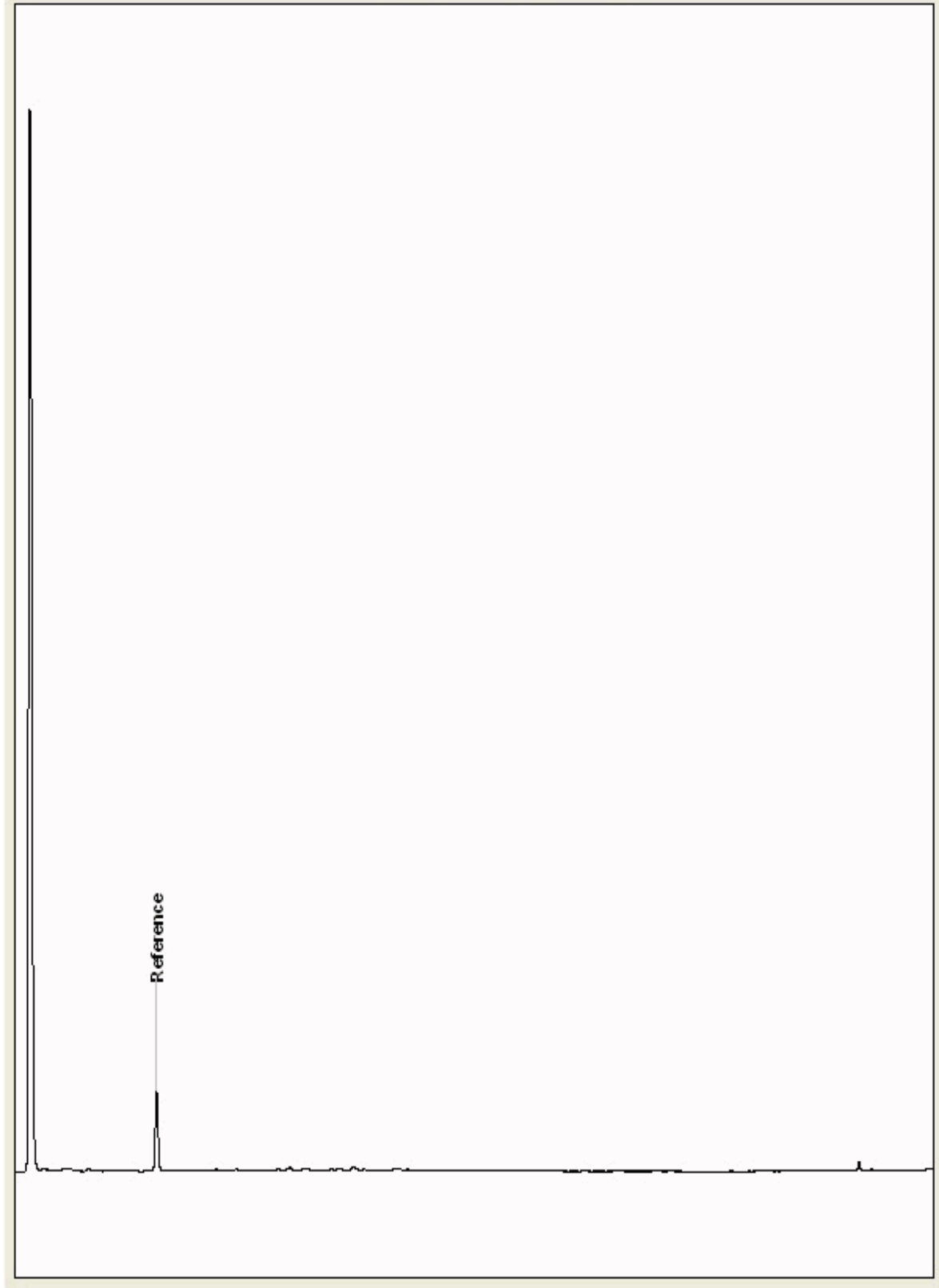
Chromatogram

Analysis: GRO by GC-FID (S)
19152410

Sample No :
Sample ID : BH219

19,152,410 Depth : 16.00 - 17.00

19152410_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

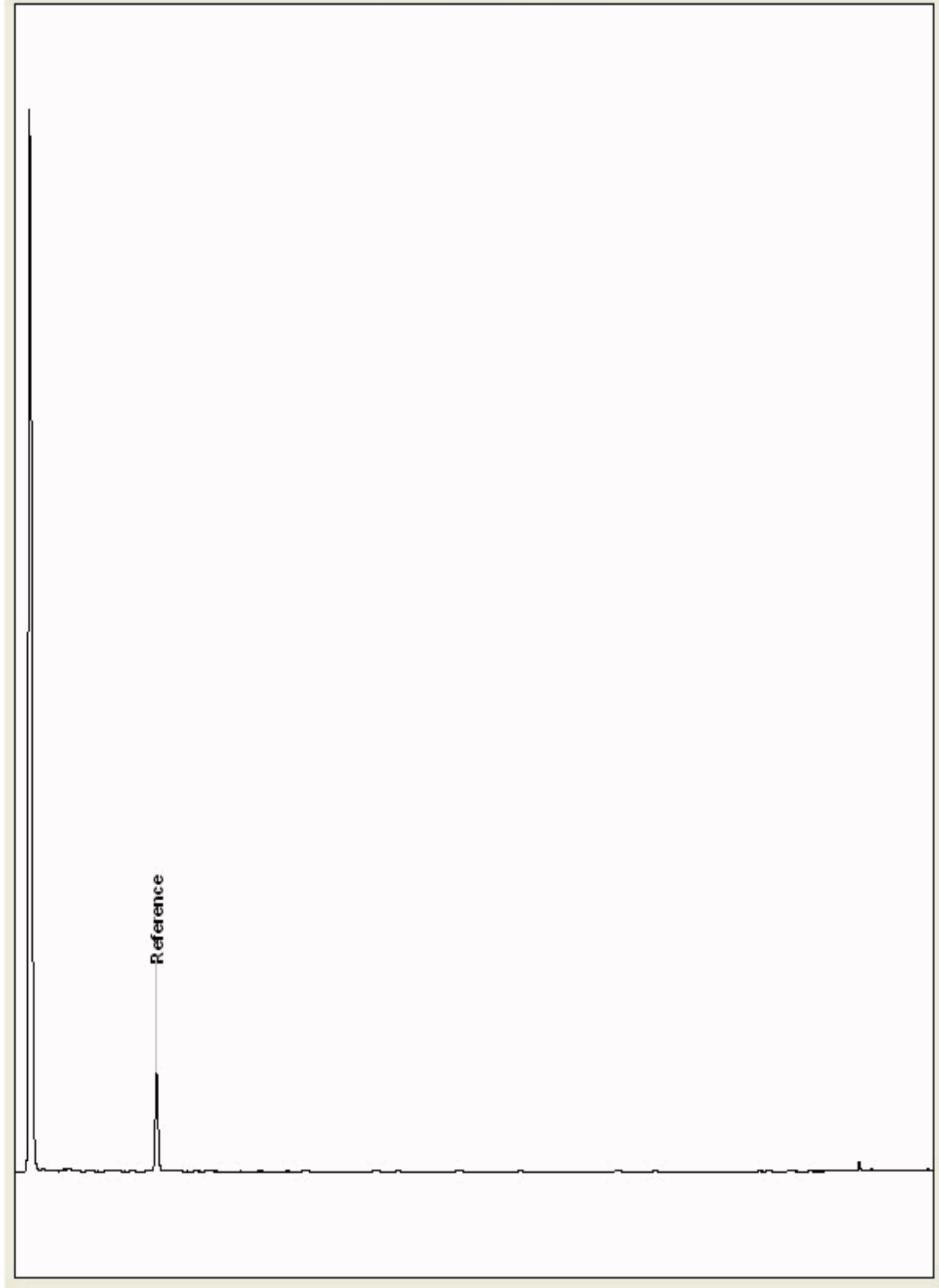
Chromatogram

Analysis: GRO by GC-FID (S)
19152419

Sample No :
Sample ID : BH222

19,152,419 **Depth :** 15.00 - 16.00

19152419_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

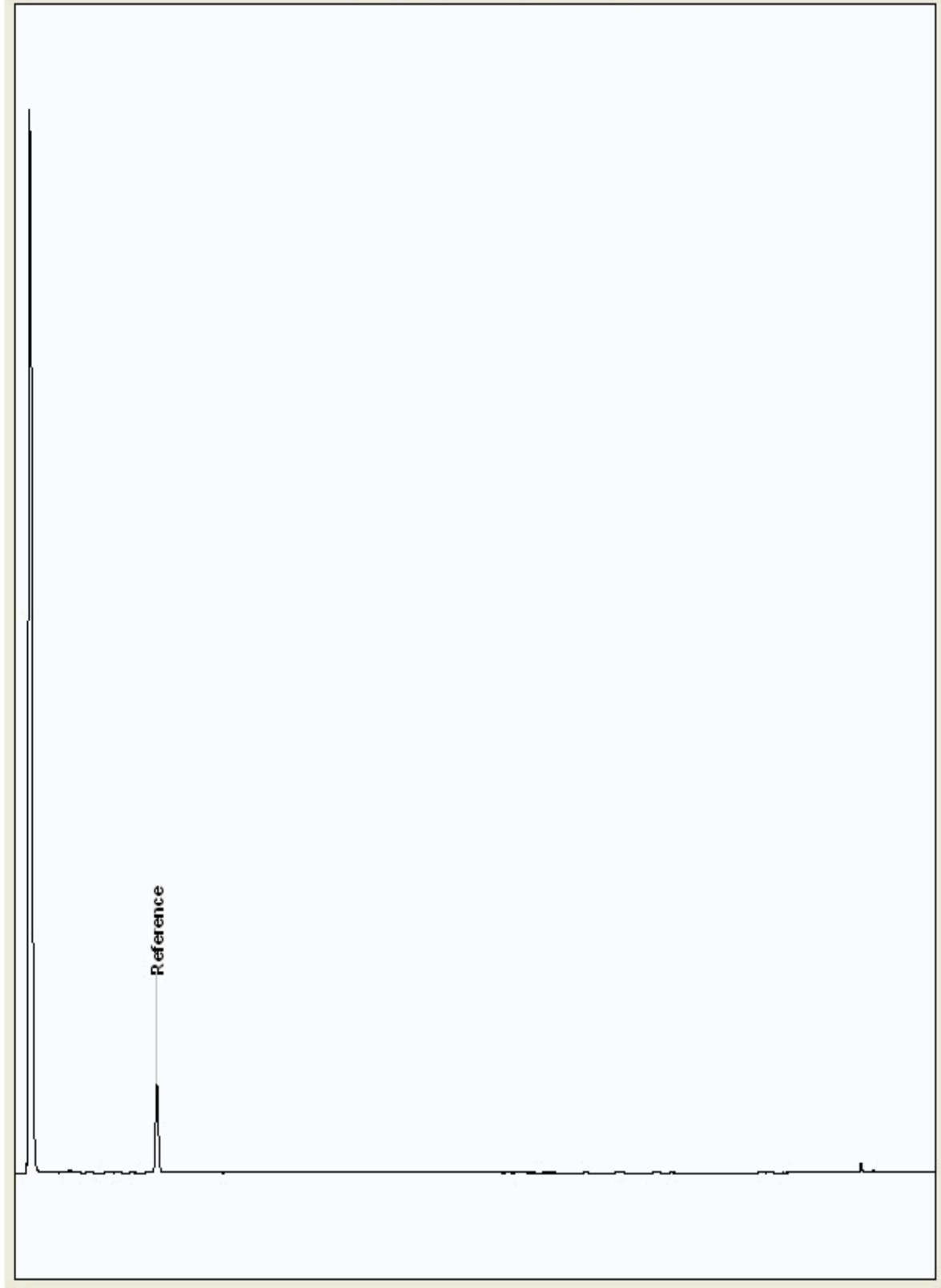
Chromatogram

Analysis: GRO by GC-FID (S)
19152441

Sample No :
Sample ID : BH219

19,152,441 **Depth :** 13.00 - 14.00

19152441_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

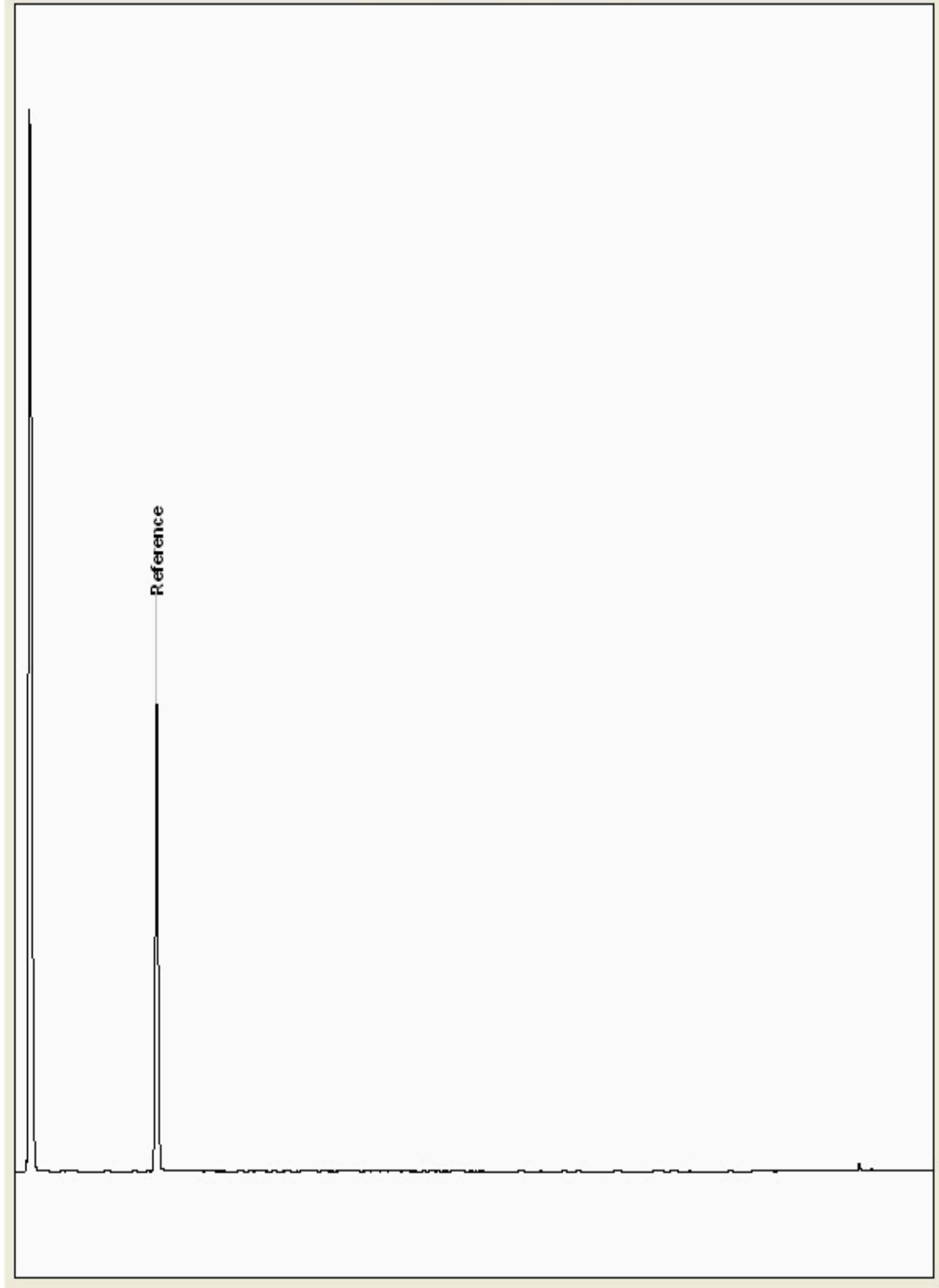
Chromatogram

Analysis: GRO by GC-FID (S)
19152463

Sample No : 19,152,463
Sample ID : BH219

Depth : 0.50 - 1.00

19152463_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

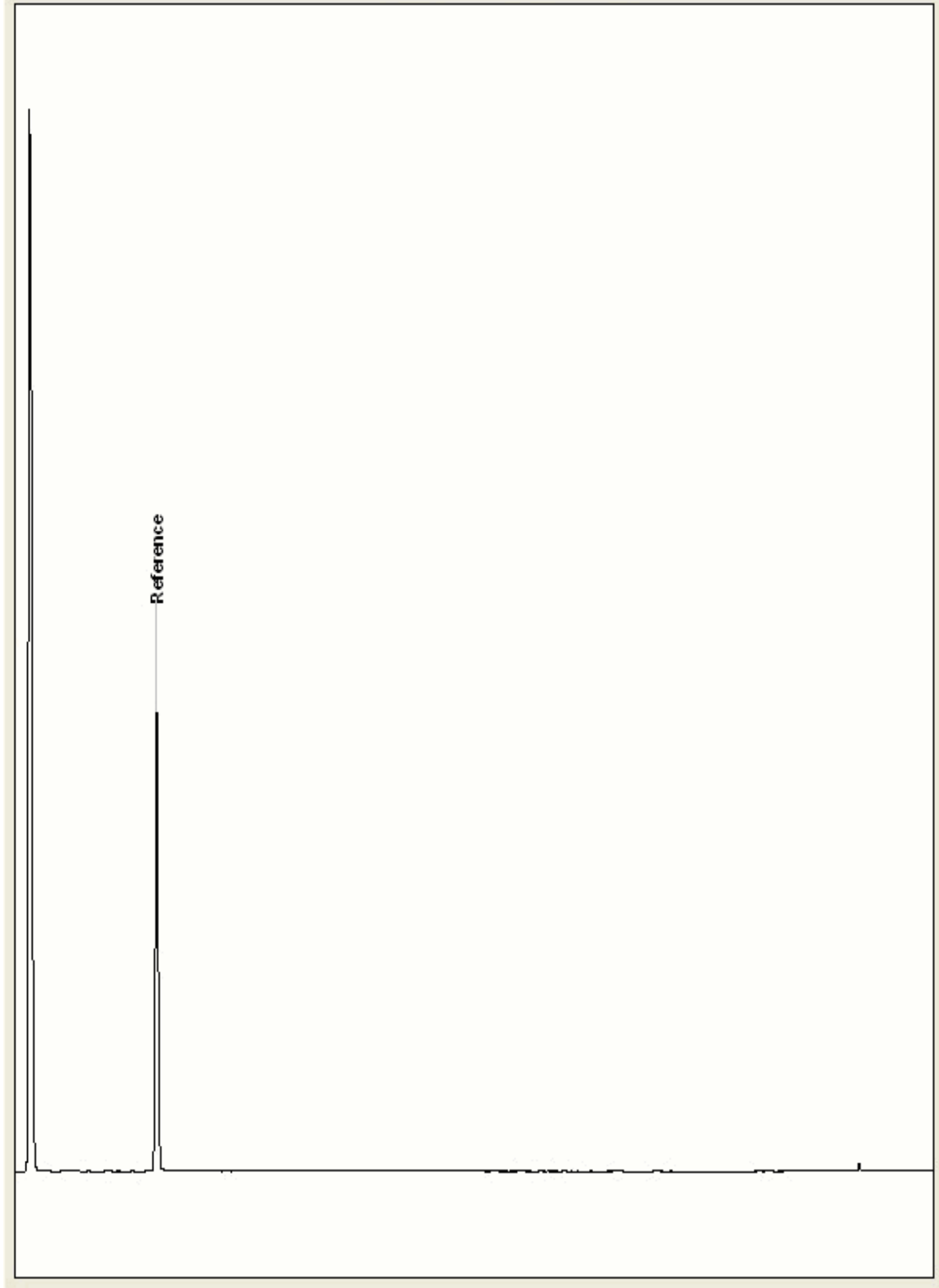
Chromatogram

Analysis: GRO by GC-FID (S)
19152479

Sample No :
Sample ID : BH224

19,152,479Depth :0.00 - 0.50

19152479_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

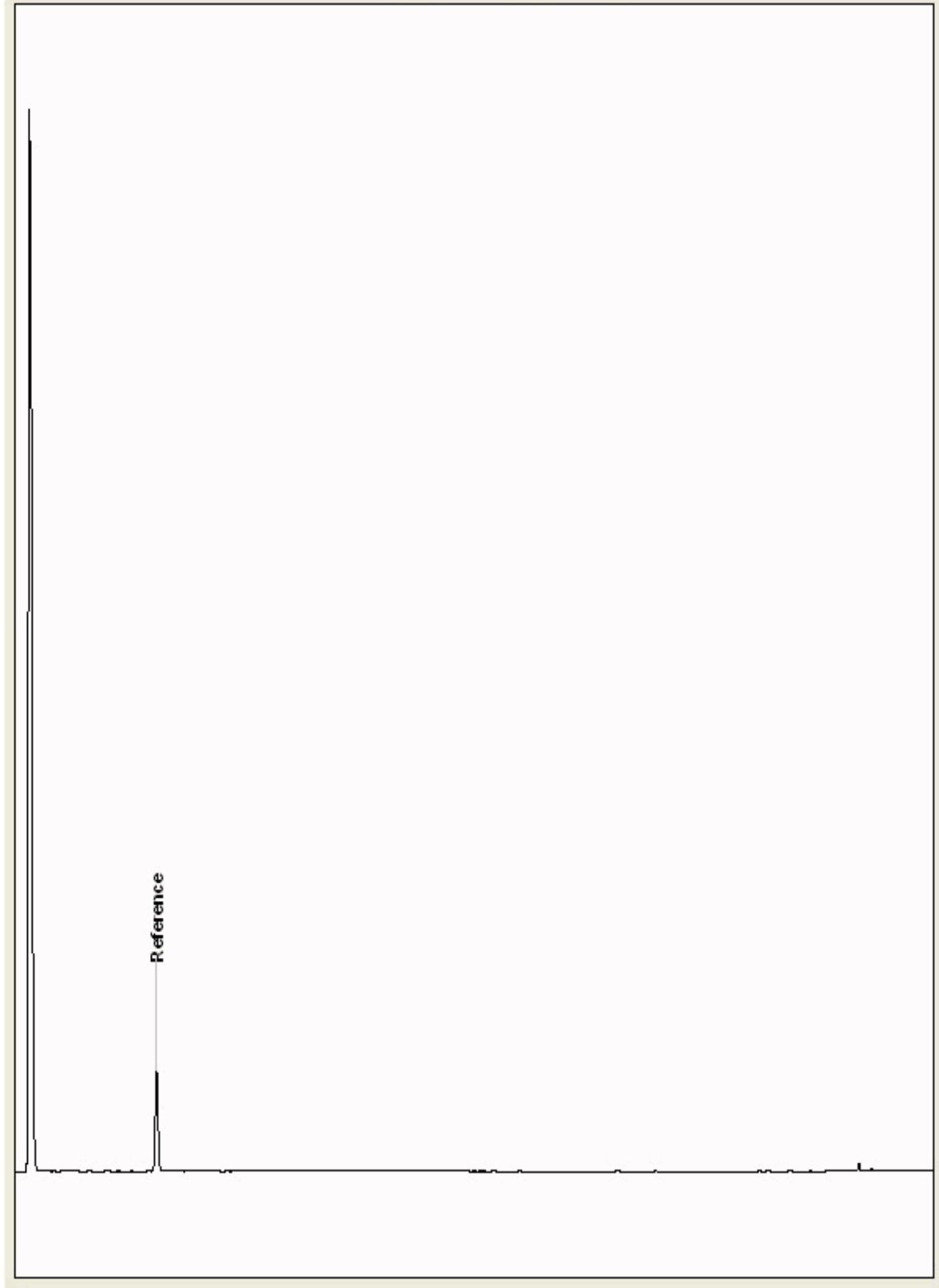
Chromatogram

Analysis: GRO by GC-FID (S)
19152490

Sample No :
Sample ID : BH219

19,152,490 **Depth :** 15.00 - 16.00

19152490_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

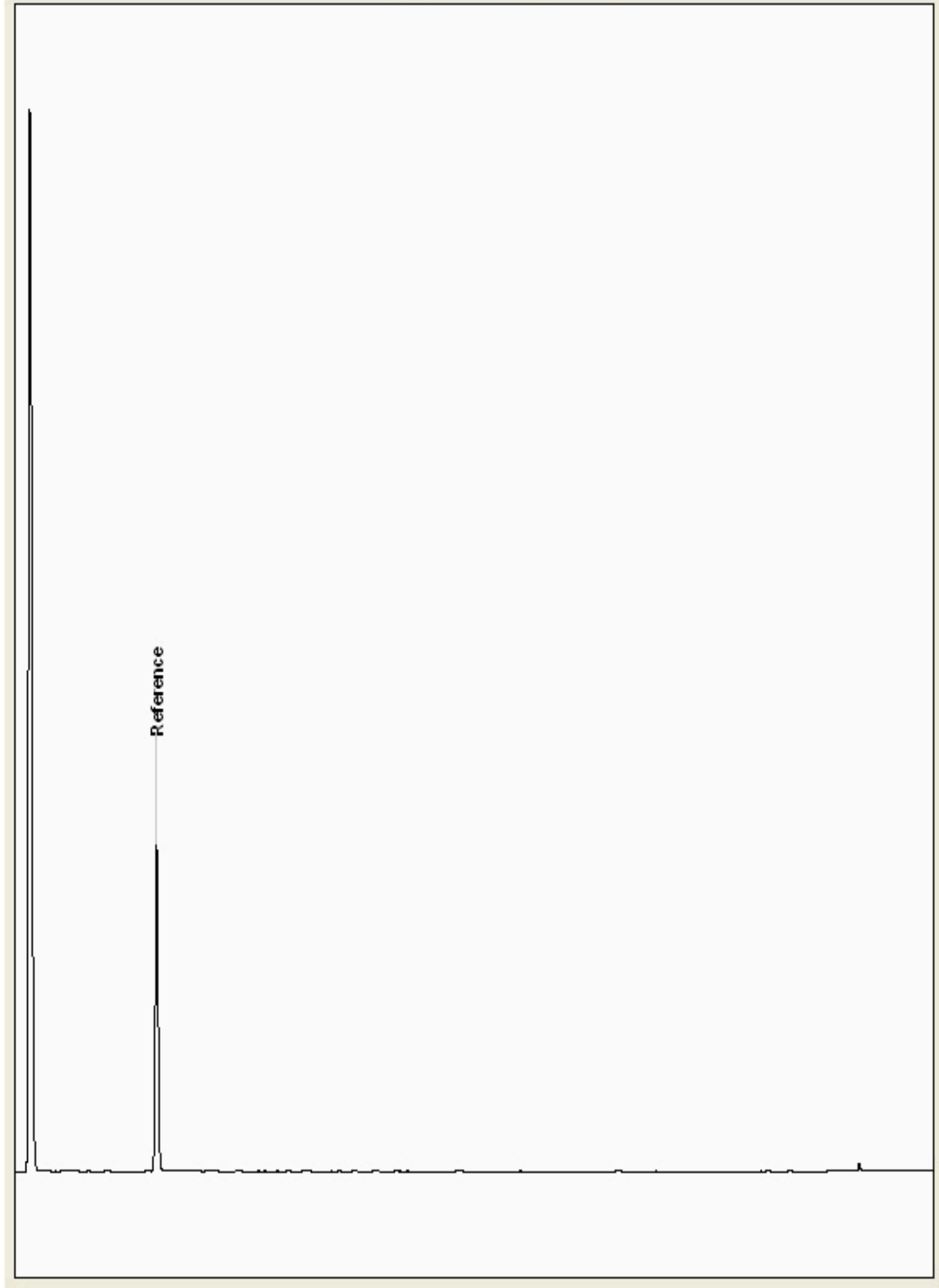
Chromatogram

Analysis: GRO by GC-FID (S)
19152551

Sample No :
Sample ID : BH223

19,152,551 Depth : 11.00 - 12.00

19152551_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

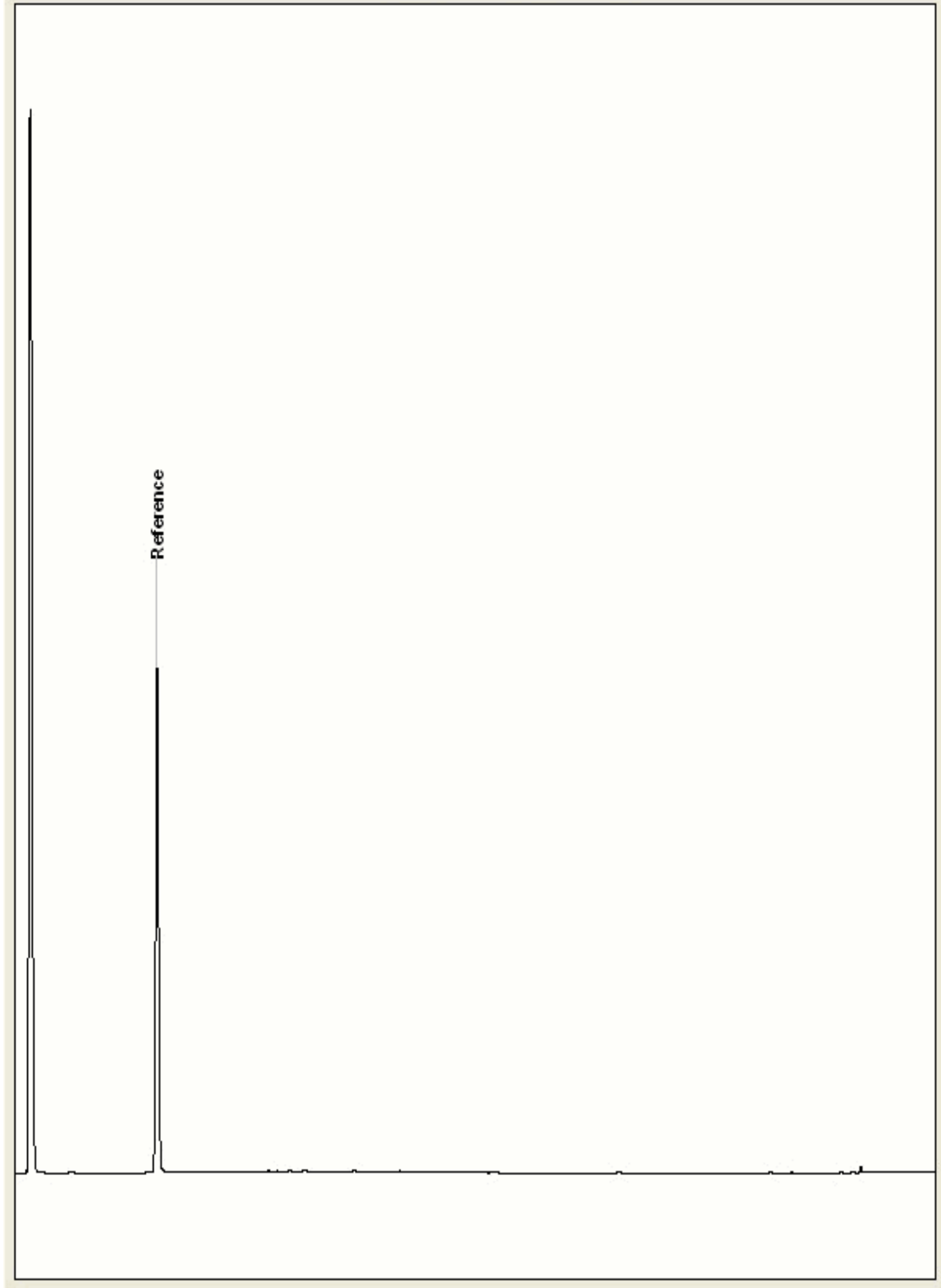
Chromatogram

Analysis: GRO by GC-FID (S)
19152574

Sample No :
Sample ID : BH218

19,152,574 **Depth :** 6.00 - 7.00

19152574_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

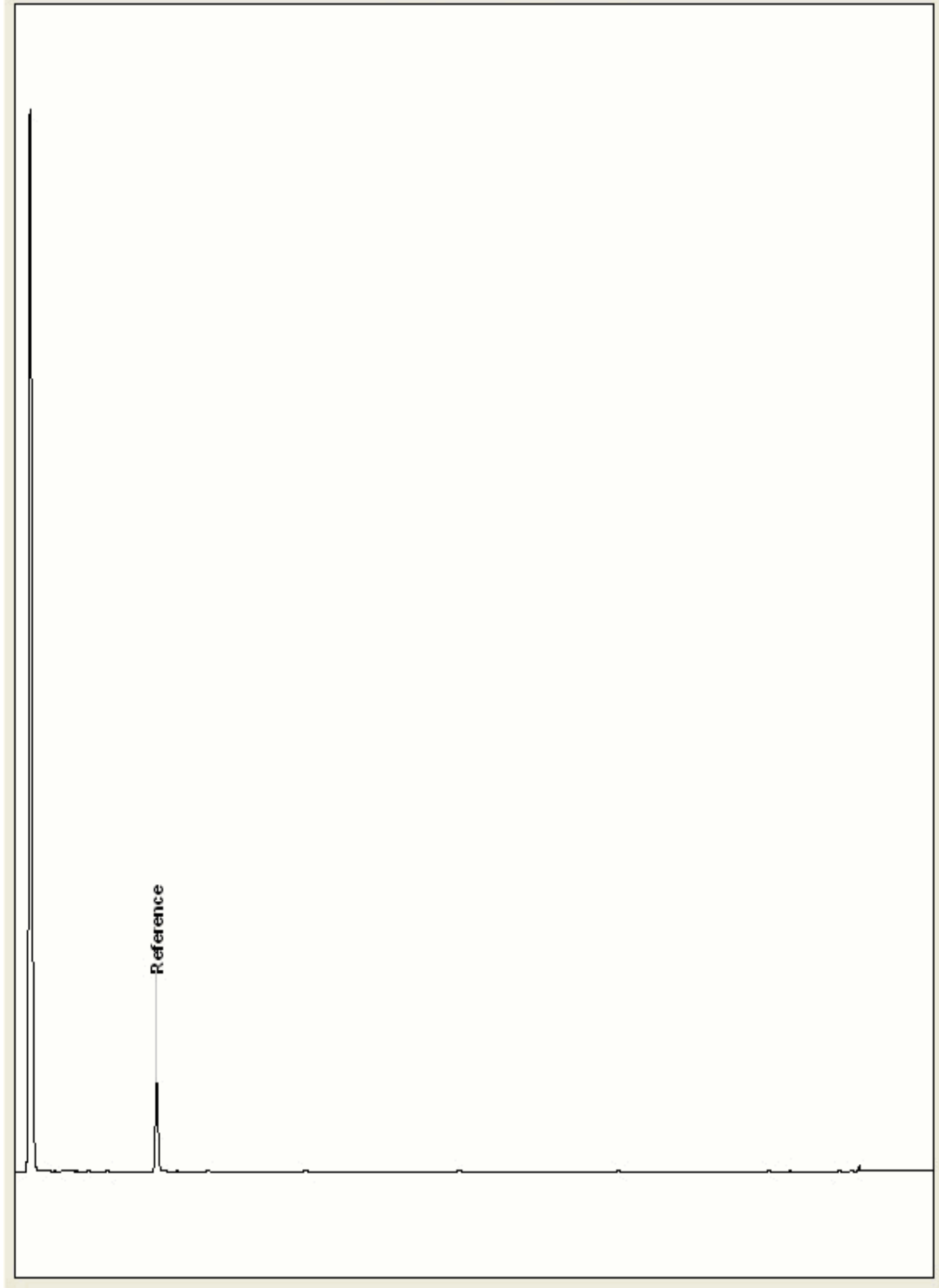
Chromatogram

Analysis: GRO by GC-FID (S)
19152600

Sample No :
Sample ID : BH235

19,152,600**Depth :** 12.50 - 13.00

19152600_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

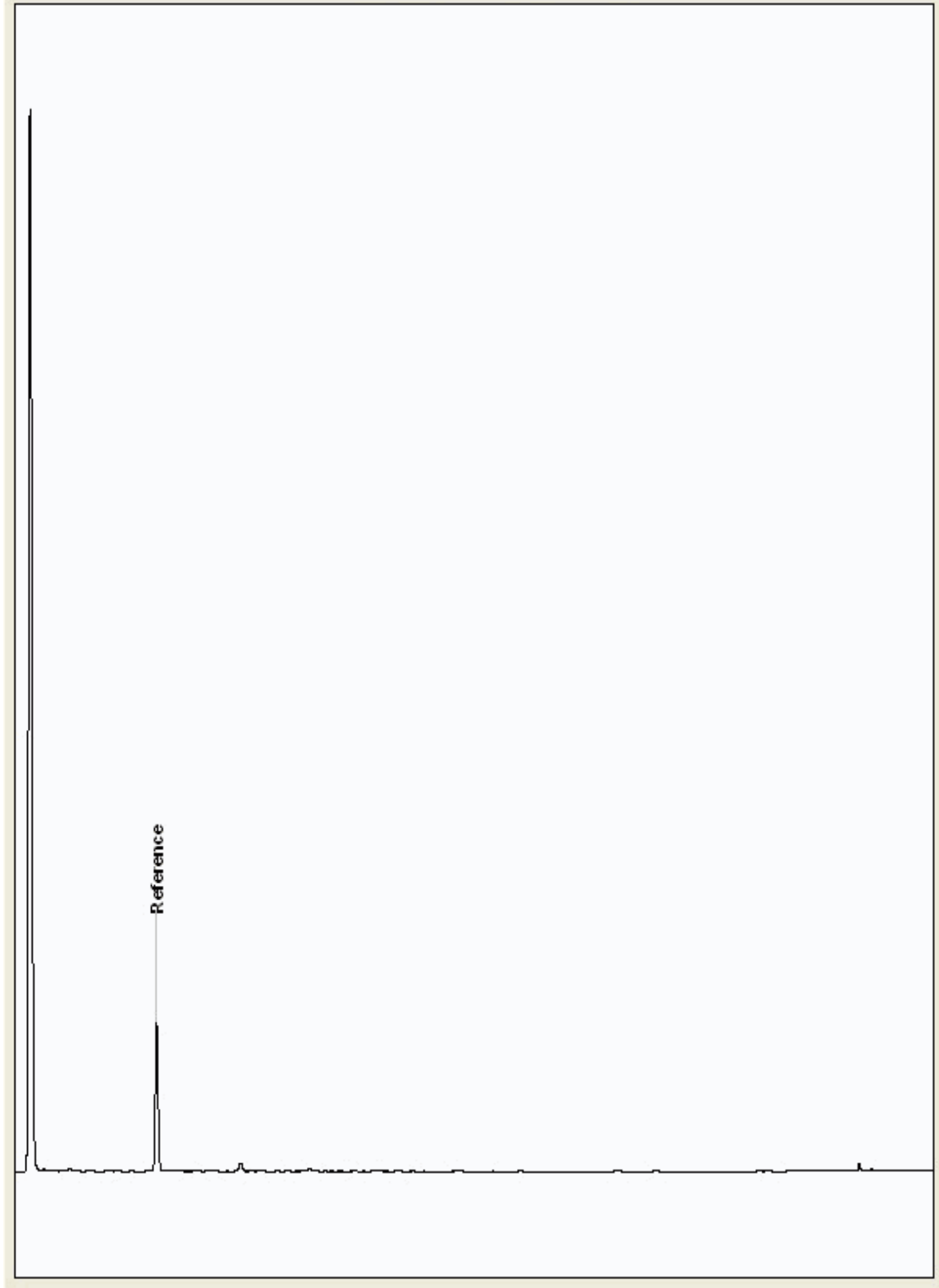
Chromatogram

Analysis: GRO by GC-FID (S)
19152606

Sample No : 19,152,606
Sample ID : BH223

Depth : 15.00 - 17.00

19152606_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

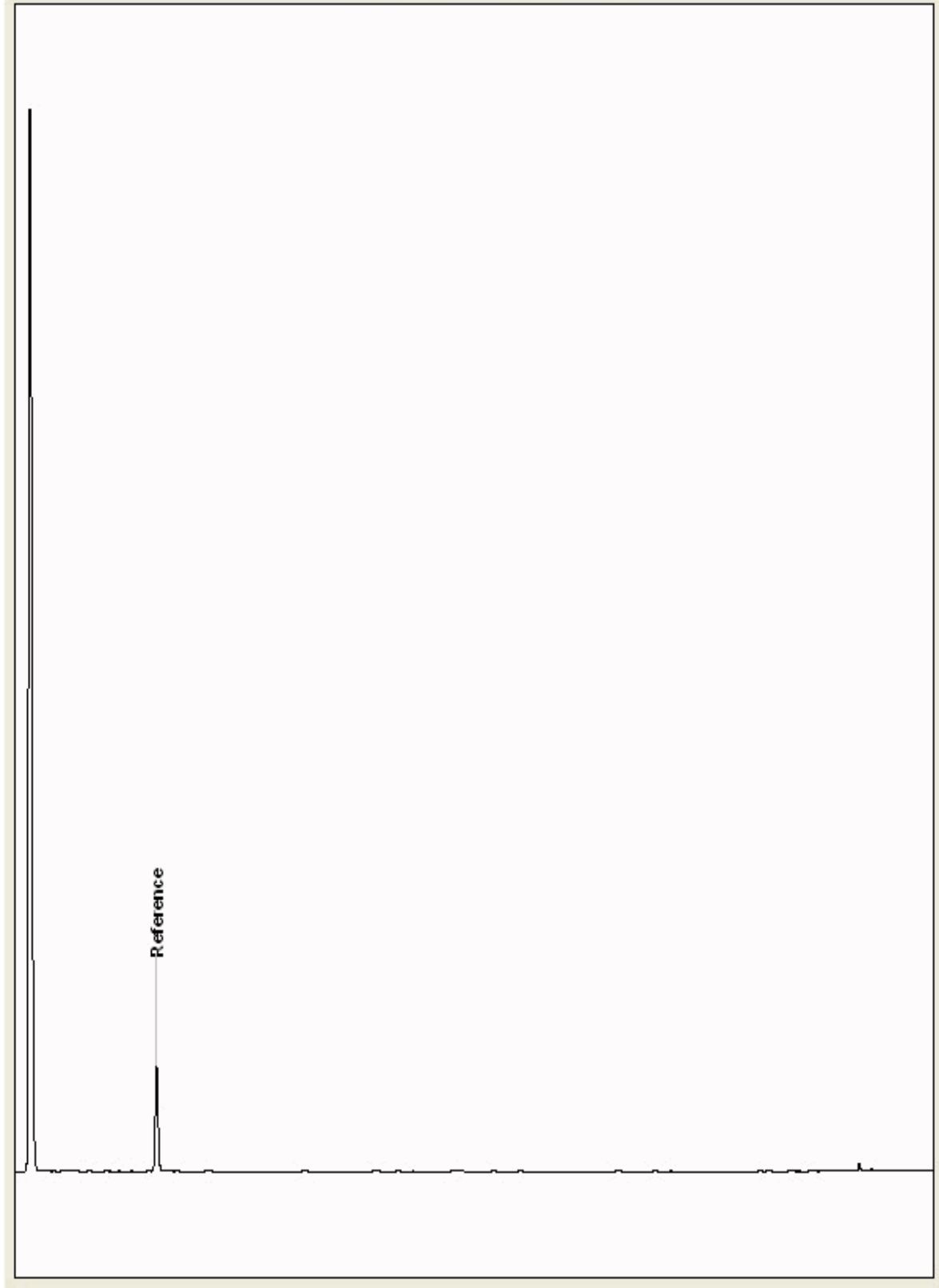
Chromatogram

Analysis: GRO by GC-FID (S)
19152613

Sample No : 19,152,613
Sample ID : BH235

Depth : 13.00 - 14.00

19152613_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

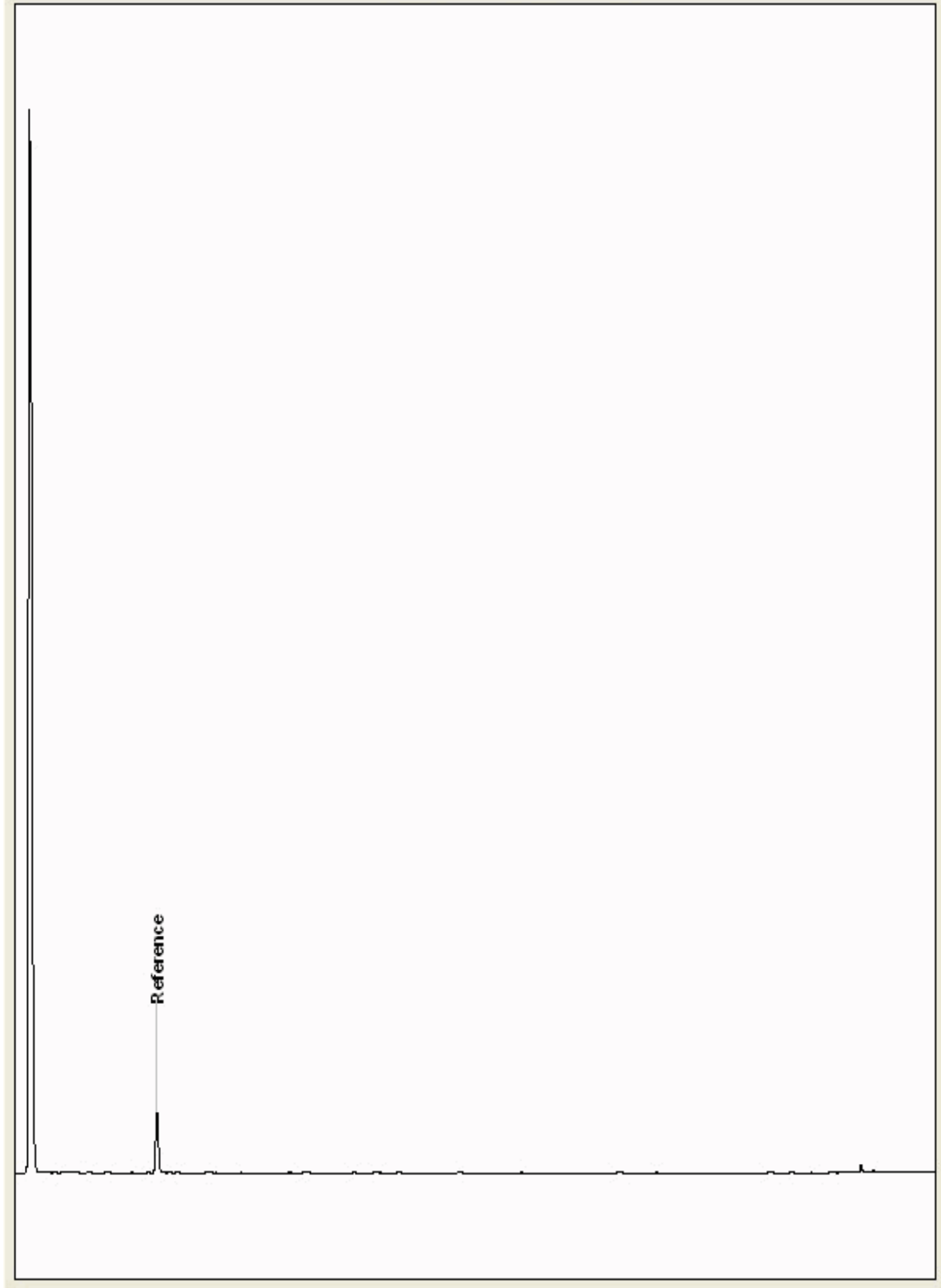
Chromatogram

Analysis: GRO by GC-FID (S)
19152628

Sample No : 19,152,628
Sample ID : BH223

Depth : 13.00 - 14.00

19152628_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

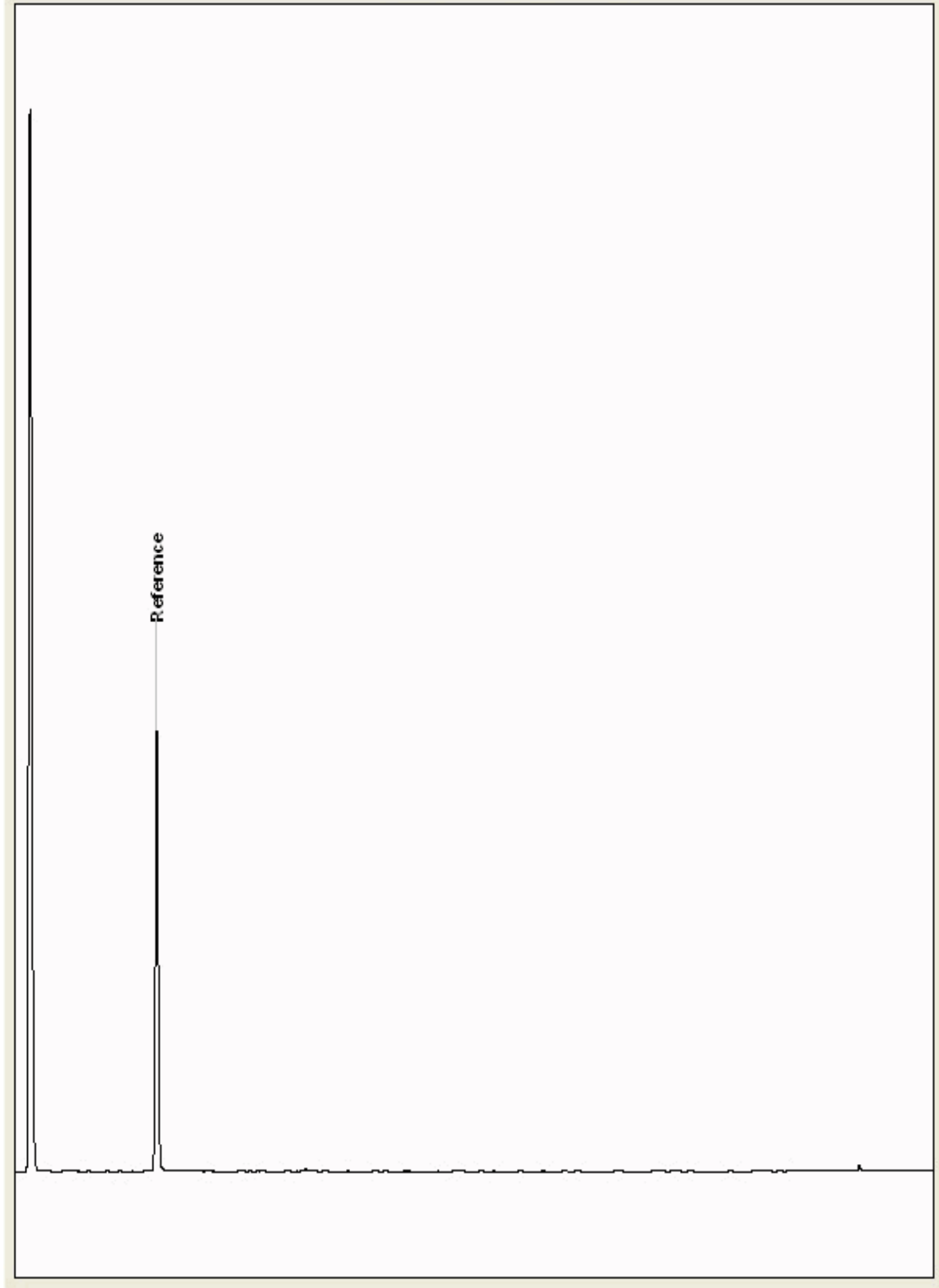
Chromatogram

Analysis: GRO by GC-FID (S)
19152815

Sample No :
Sample ID : BH235

19,152,815 Depth : 0.00 - 0.50

19152815_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

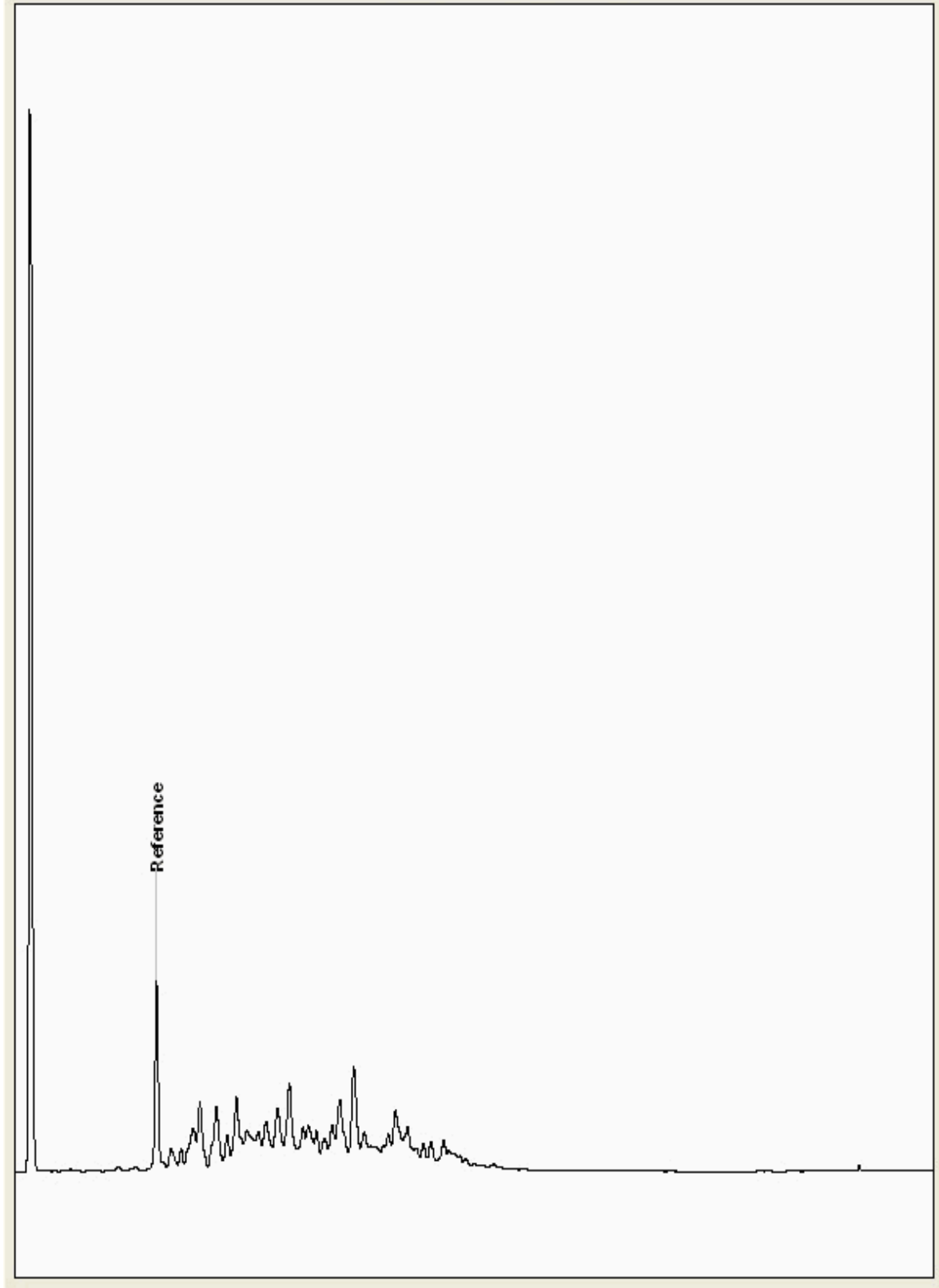
Chromatogram

Analysis: GRO by GC-FID (S)
19152856

Sample No :
Sample ID : BH218

19,152,856Depth : 13.00 - 14.00

19152856_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

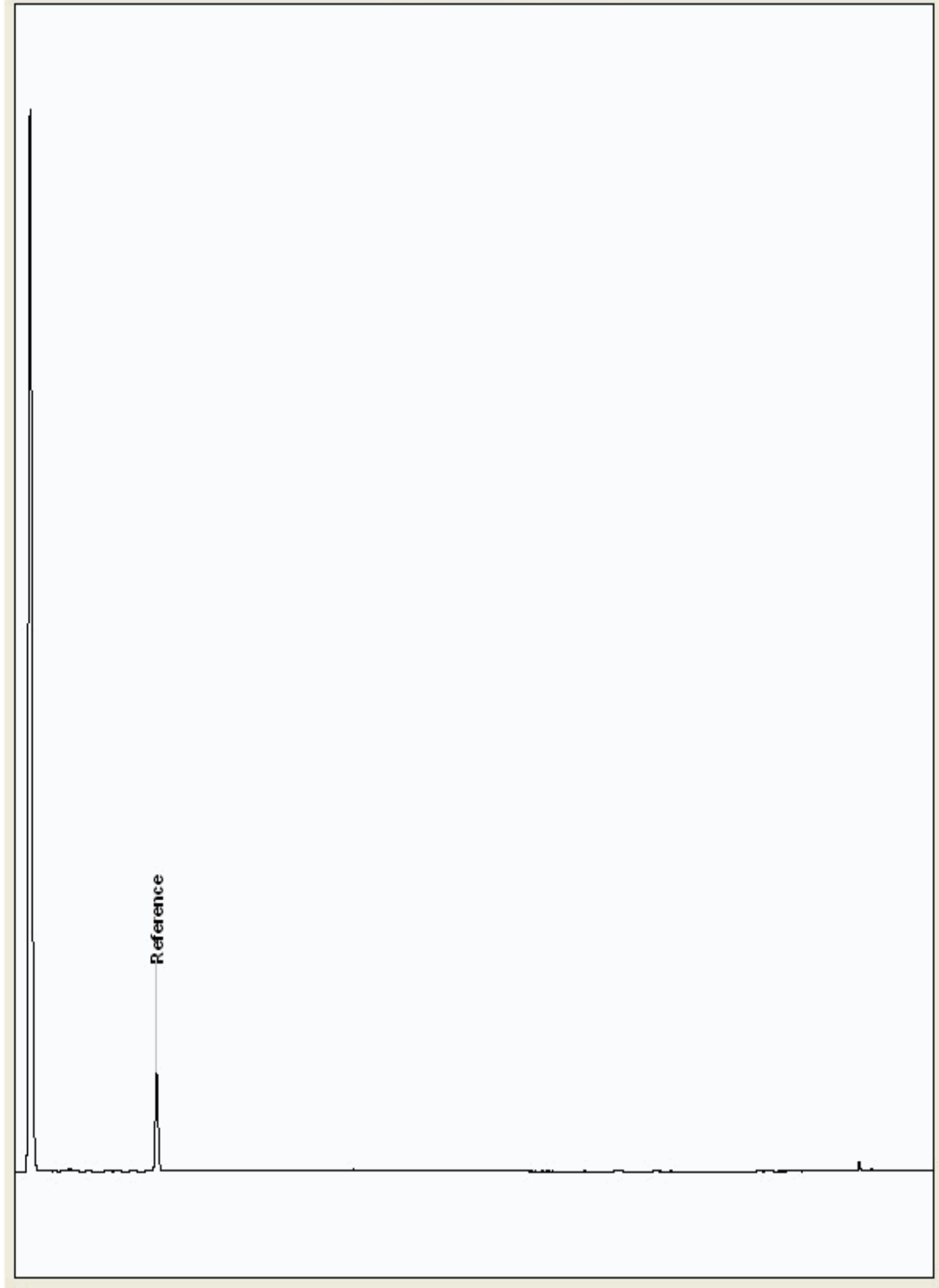
Chromatogram

Analysis: GRO by GC-FID (S)
19152881

Sample No : 19,152,881
Sample ID : BH218

Depth : 12.00 - 13.00

19152881_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19152882

Sample No :
Sample ID : BH223

19,152,882Depth :5.00 - 6.00

19152882_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

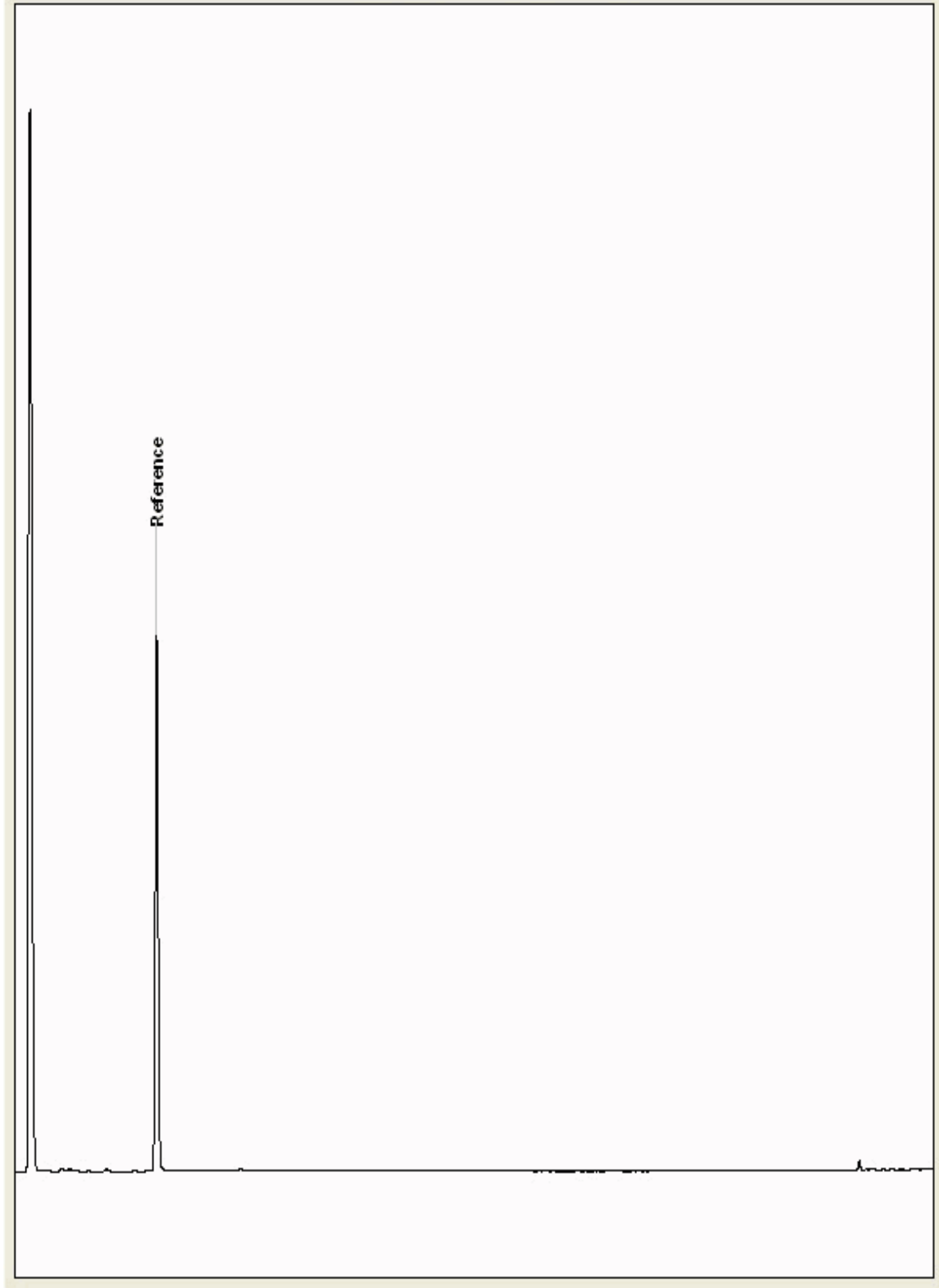
Chromatogram

Analysis: GRO by GC-FID (S)
19152891

Sample No :
Sample ID : BH223

19,152,891 Depth : 2.00 - 3.00

19152891_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

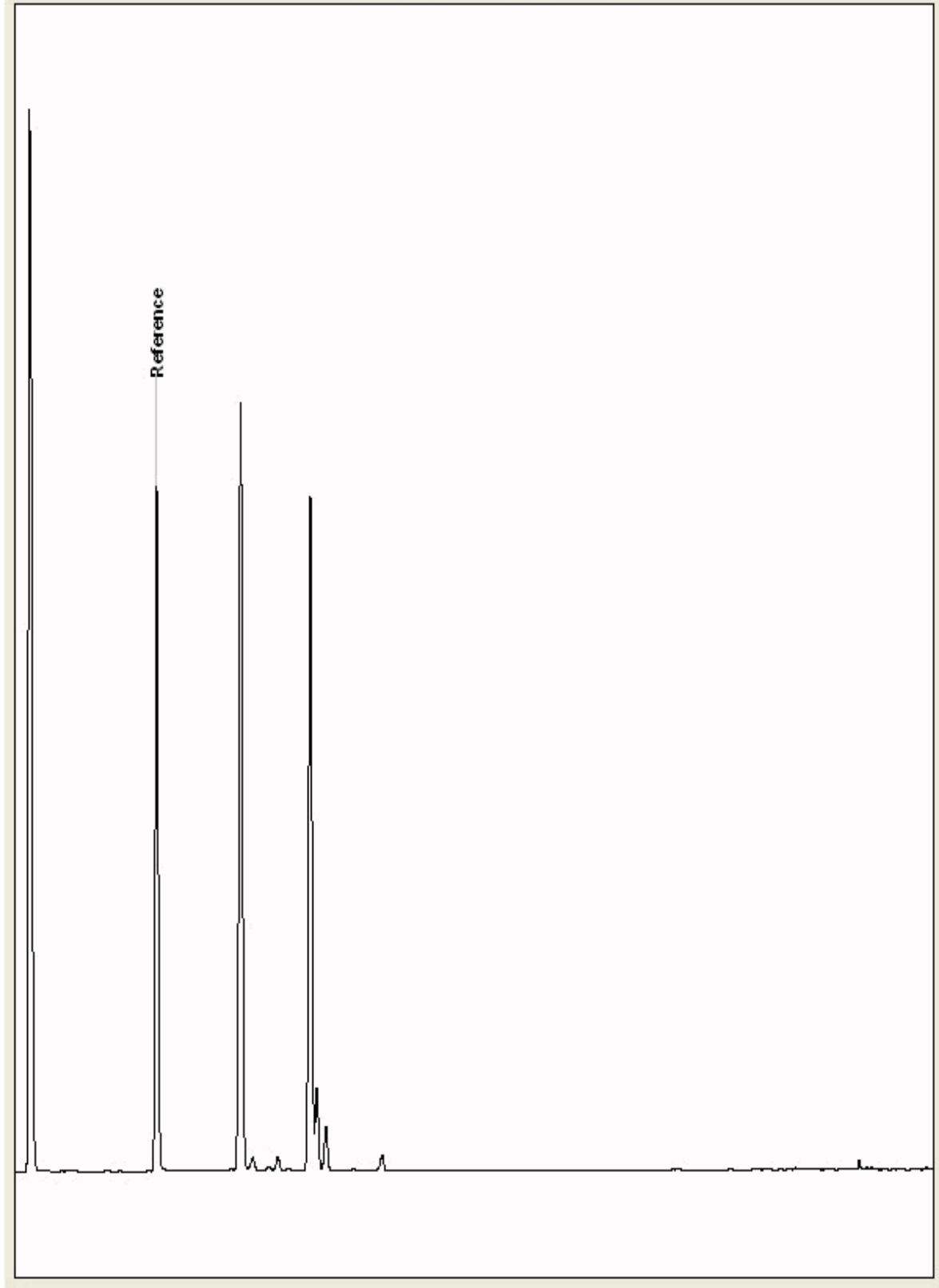
Chromatogram

Analysis: GRO by GC-FID (S)
19152901

Sample No :
Sample ID : BH223

19,152,901 Depth : 3.00 - 4.00

19152901_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

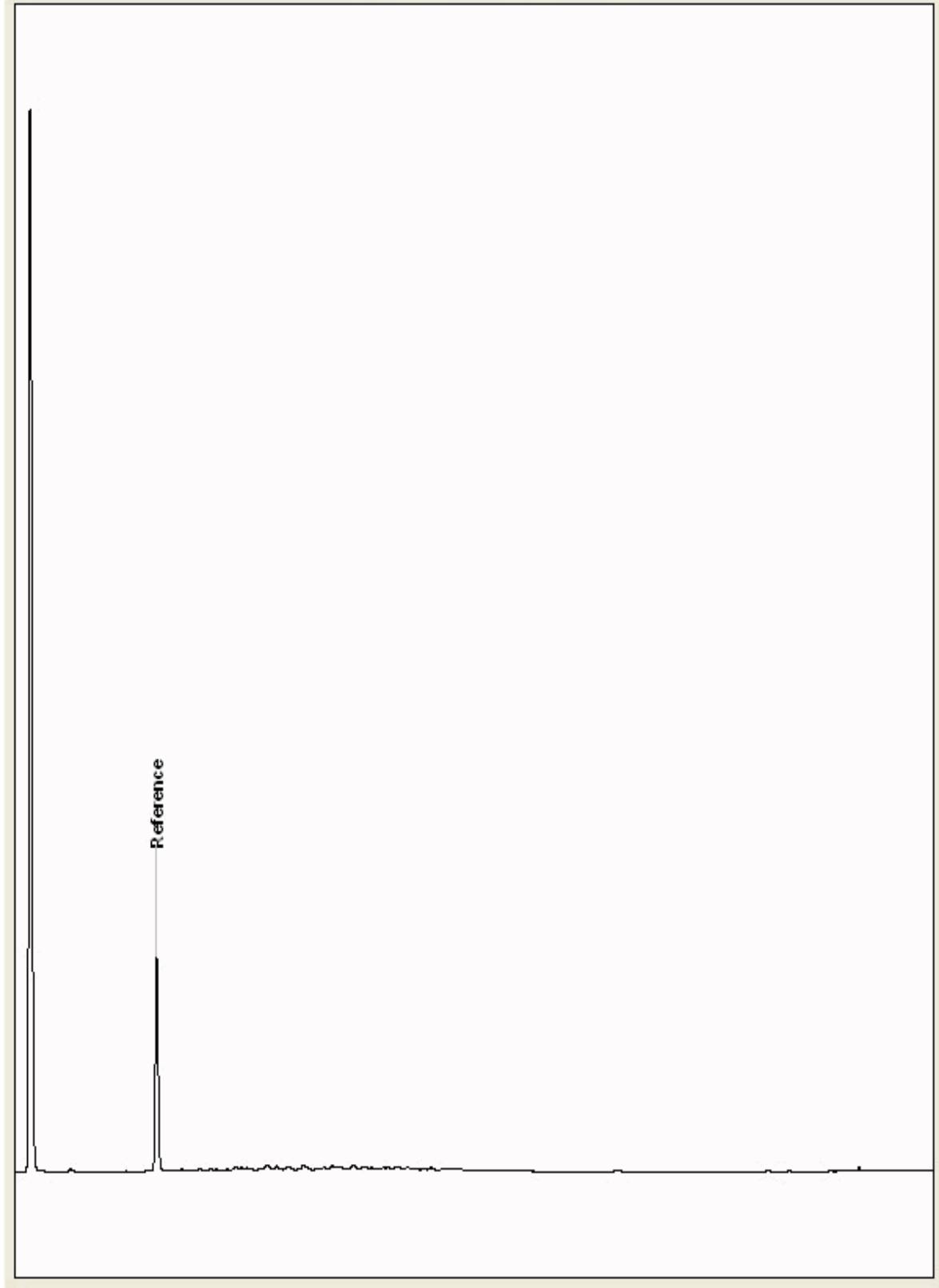
Chromatogram

Analysis: GRO by GC-FID (S)
19152913

Sample No :
Sample ID : BH219

19,152,913 Depth : 10.50 - 11.00

19152913_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

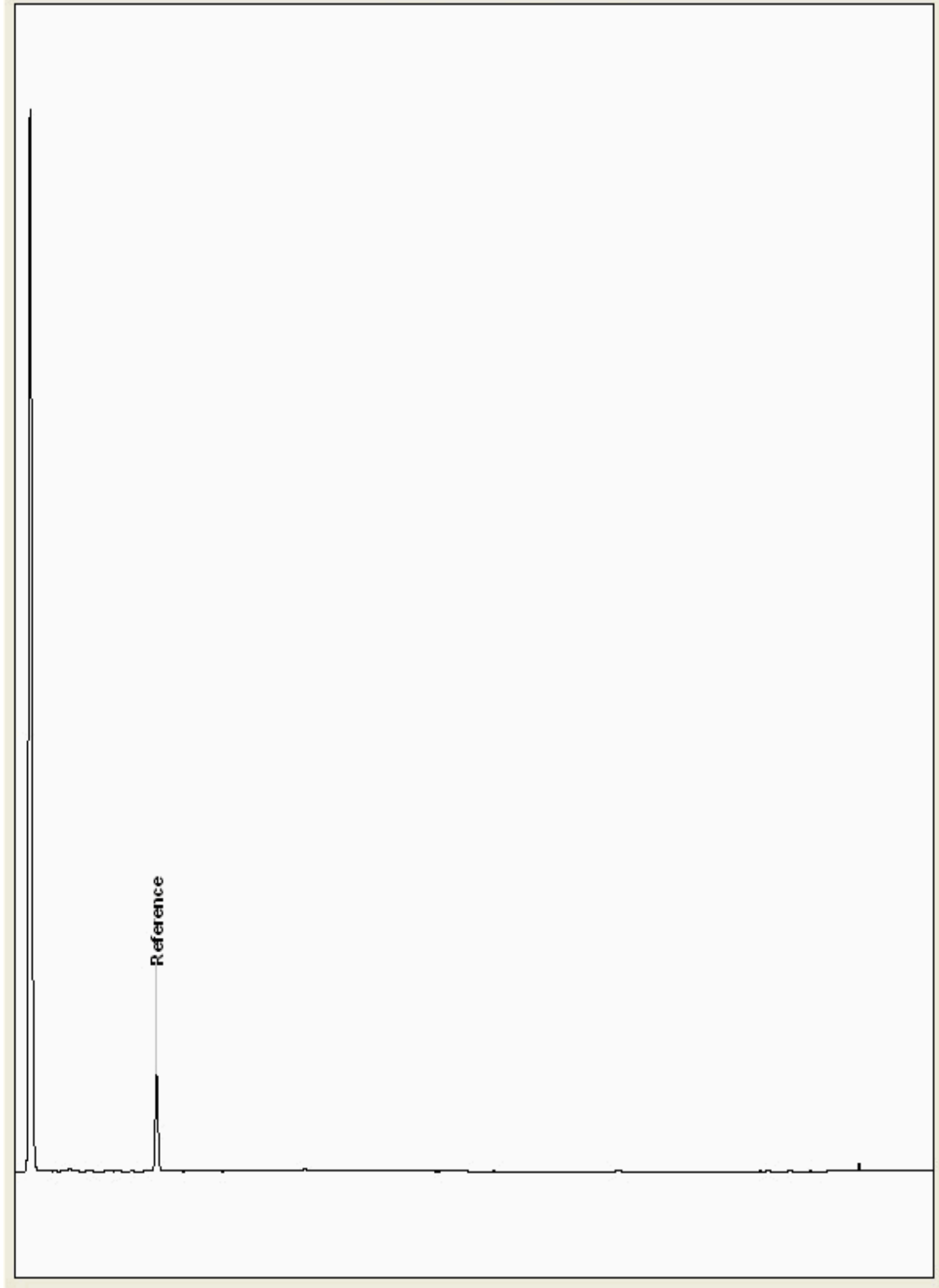
Chromatogram

Analysis: GRO by GC-FID (S)
19152920

Sample No :
Sample ID : BH224

19,152,920 **Depth :** 15.00 - 16.00

19152920_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

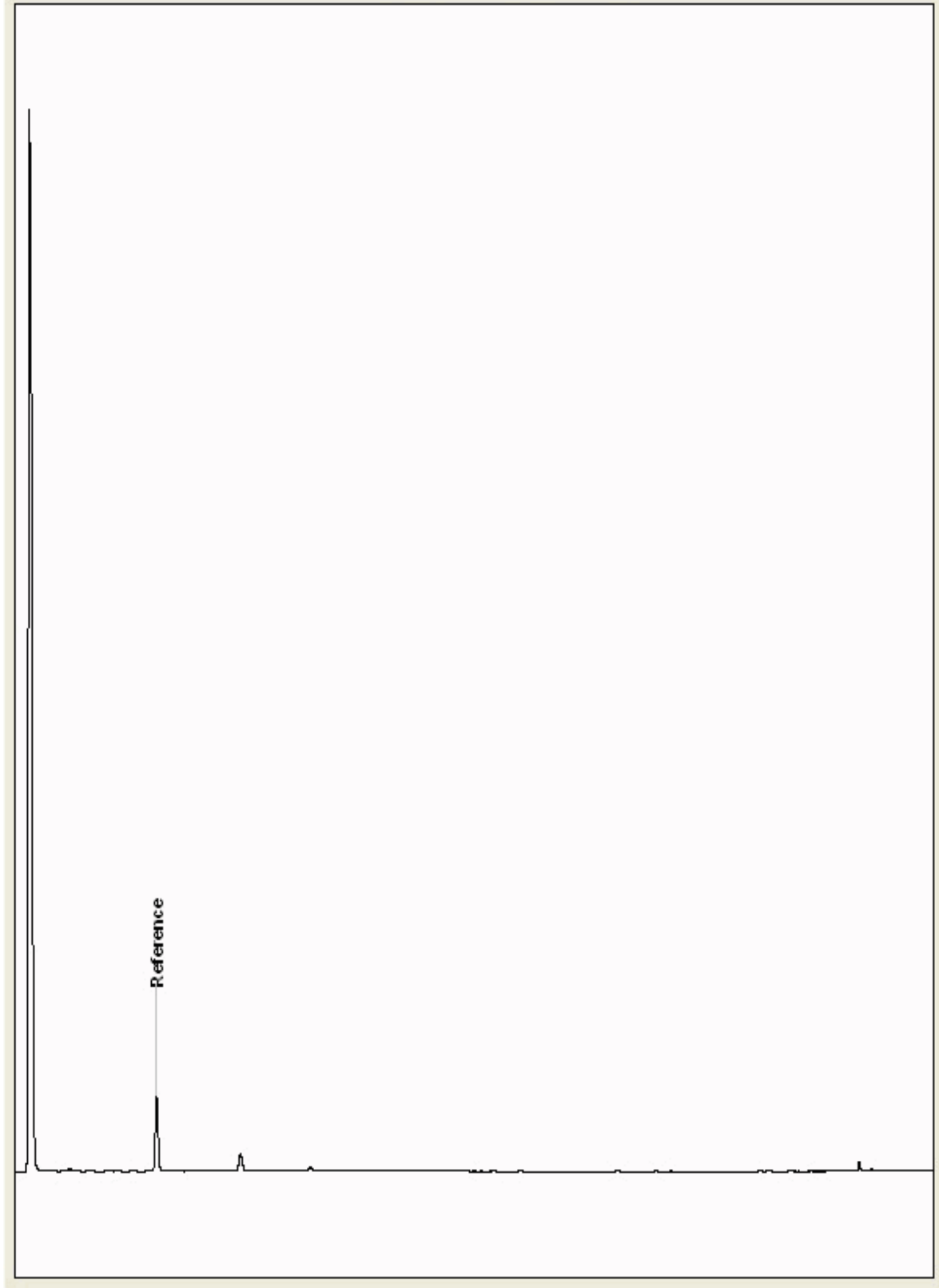
Chromatogram

Analysis: GRO by GC-FID (S)
19152927

Sample No :
Sample ID : BH224

19,152,927Depth : 16.00 - 17.00

19152927_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

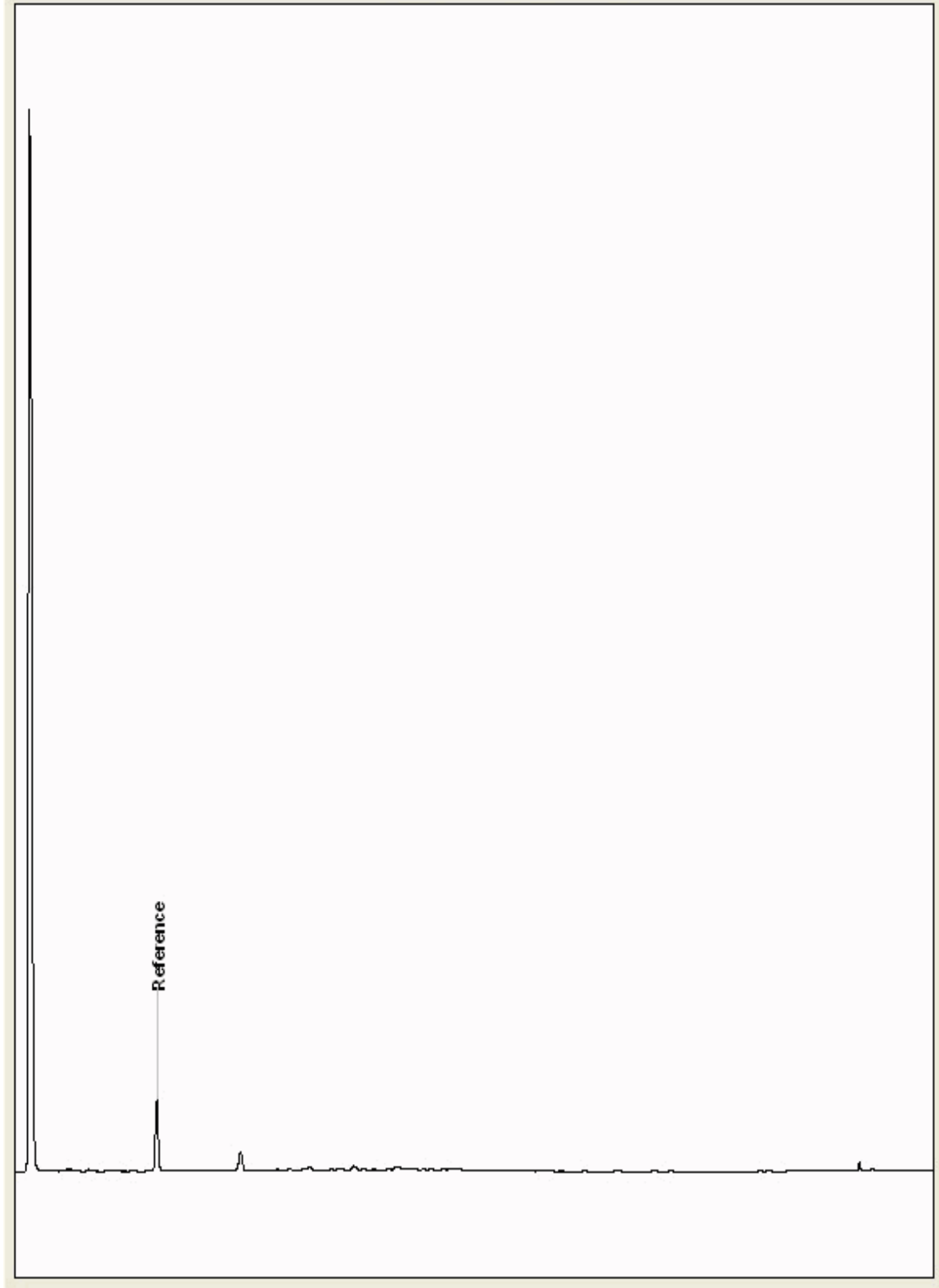
Chromatogram

Analysis: GRO by GC-FID (S)
19152934

Sample No :
Sample ID : BH224

19,152,934 Depth : 13.00 - 15.00

19152934_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

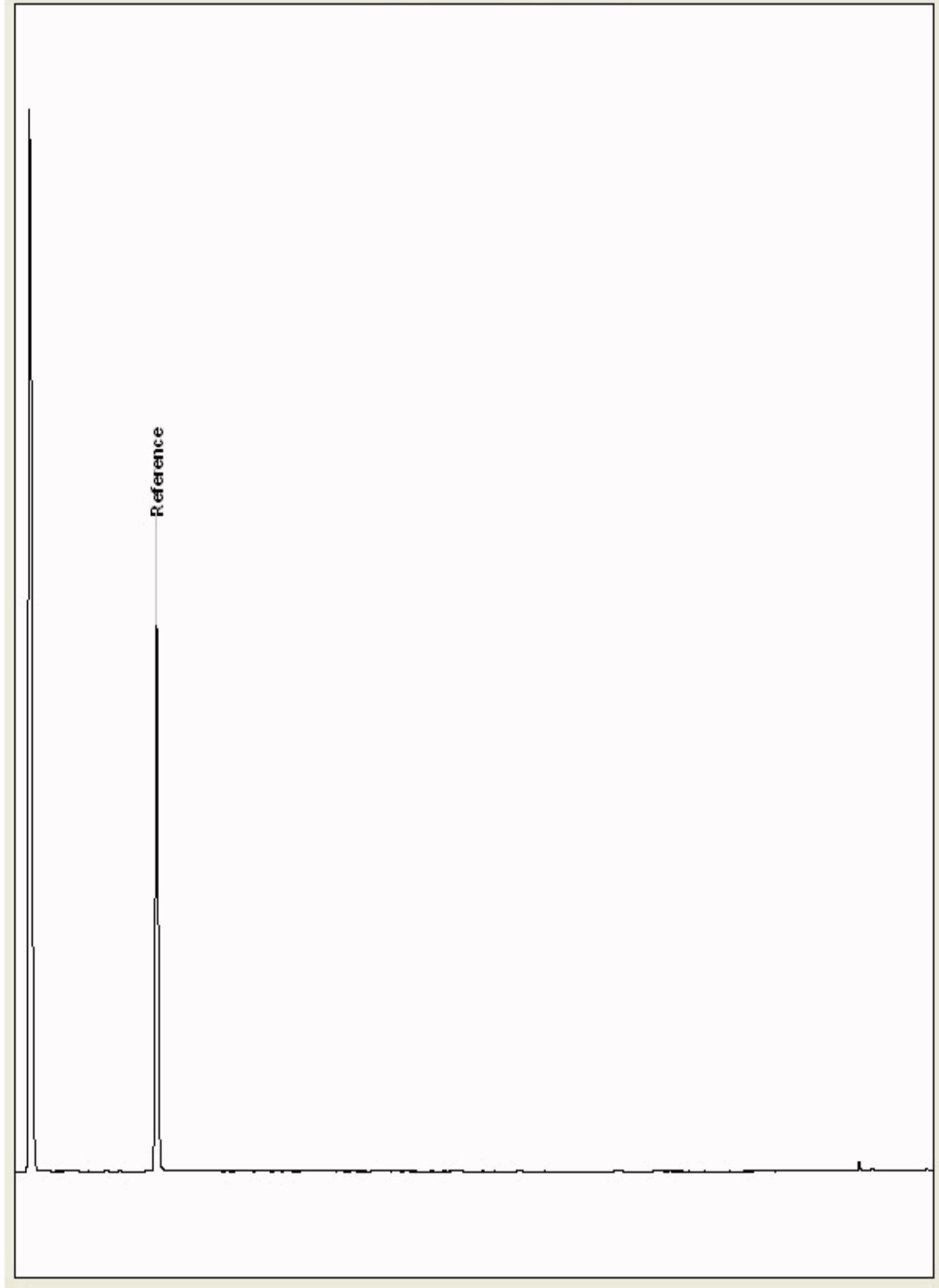
Chromatogram

Analysis: GRO by GC-FID (S)
19152969

Sample No :
Sample ID : BH222

19,152,969 **Depth :** 2.00 - 3.00

19152969_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

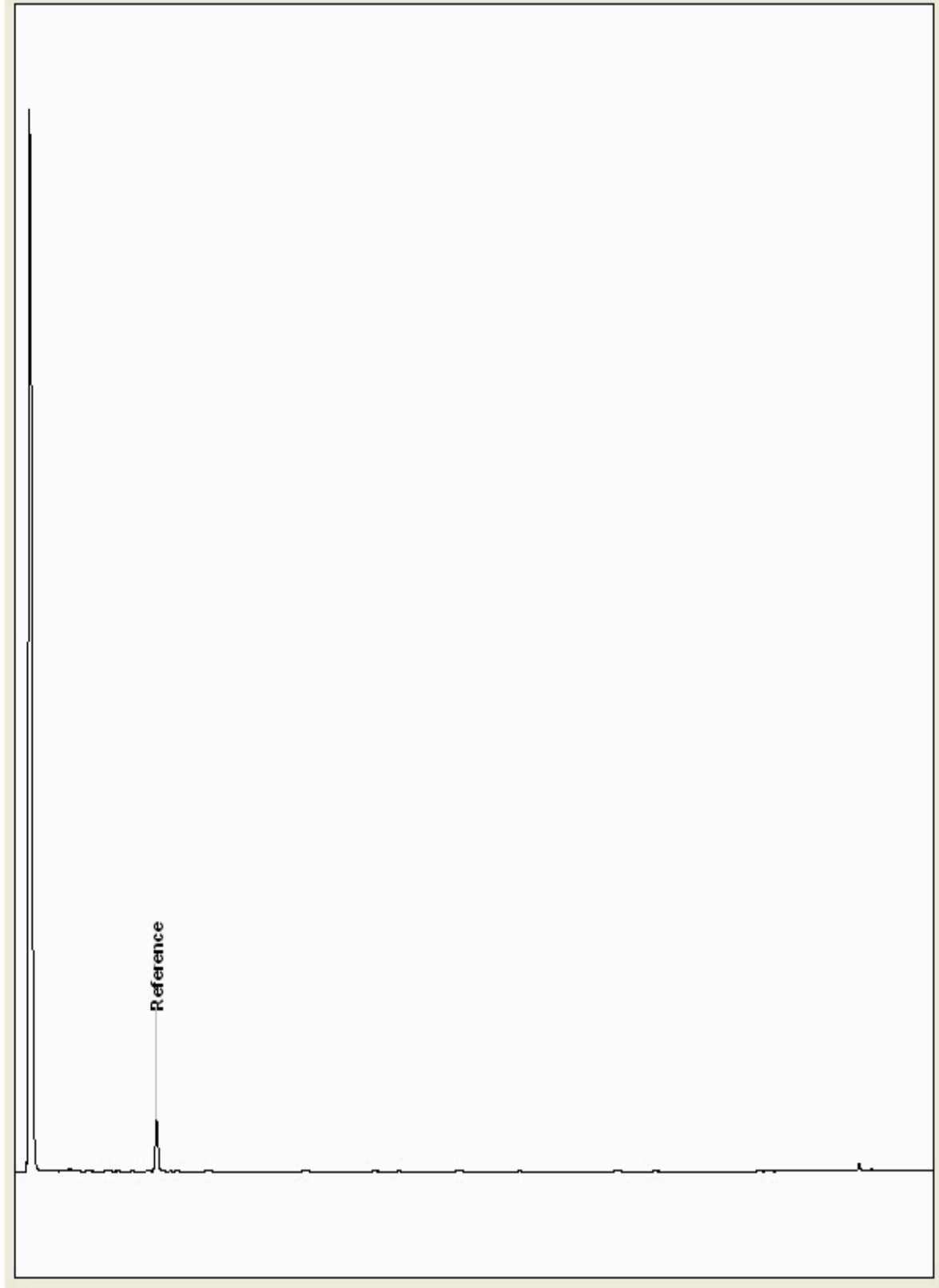
Chromatogram

Analysis: GRO by GC-FID (S)
19153033

Sample No : 19,153,033
Sample ID : BH235

Depth : 15.00 - 16.00

19153033_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

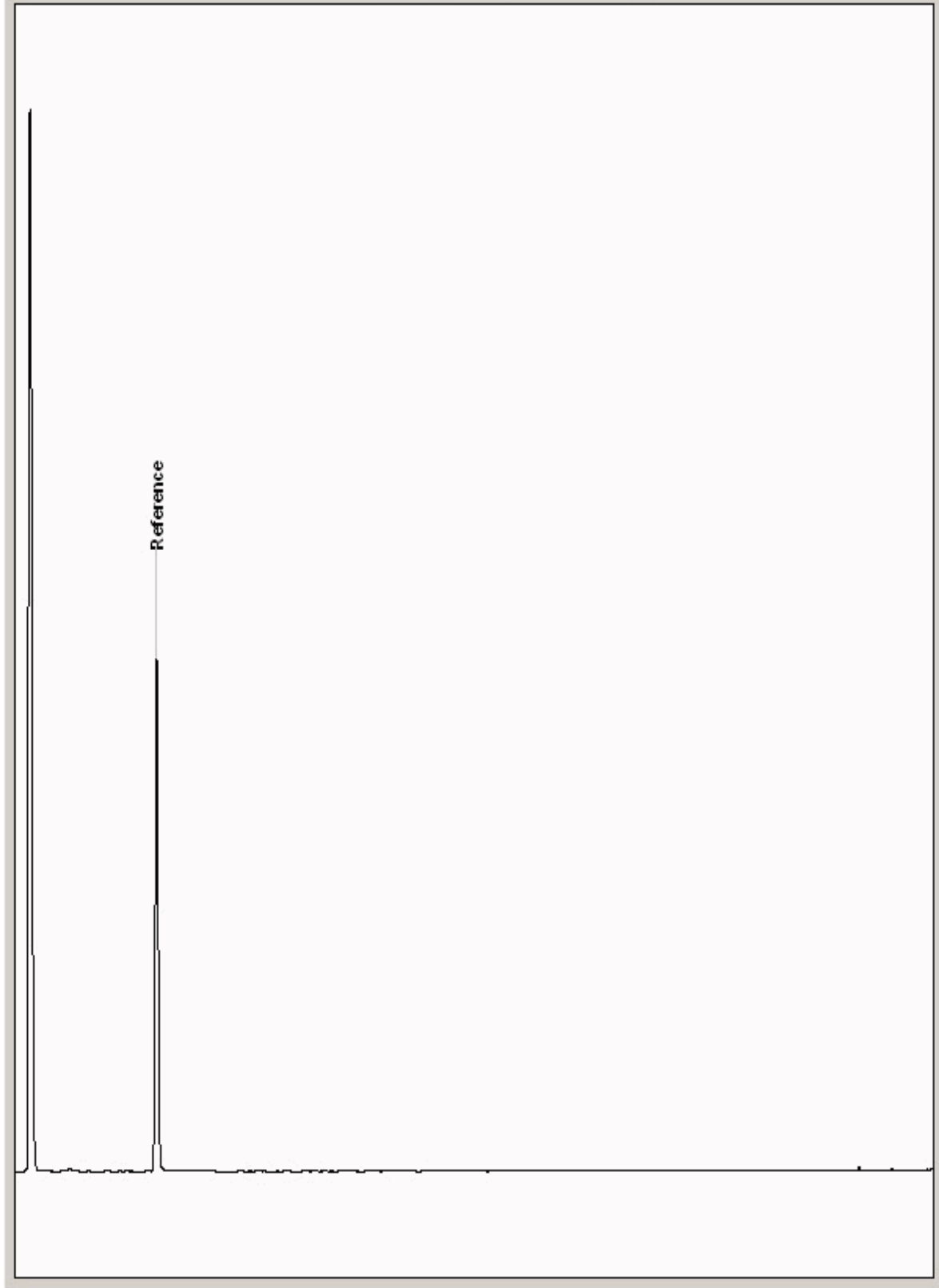
Chromatogram

Analysis: GRO by GC-FID (S)
19158460

Sample No :
Sample ID : BH222

19,158,460 **Depth :** 0.00 - 0.50

19158460_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

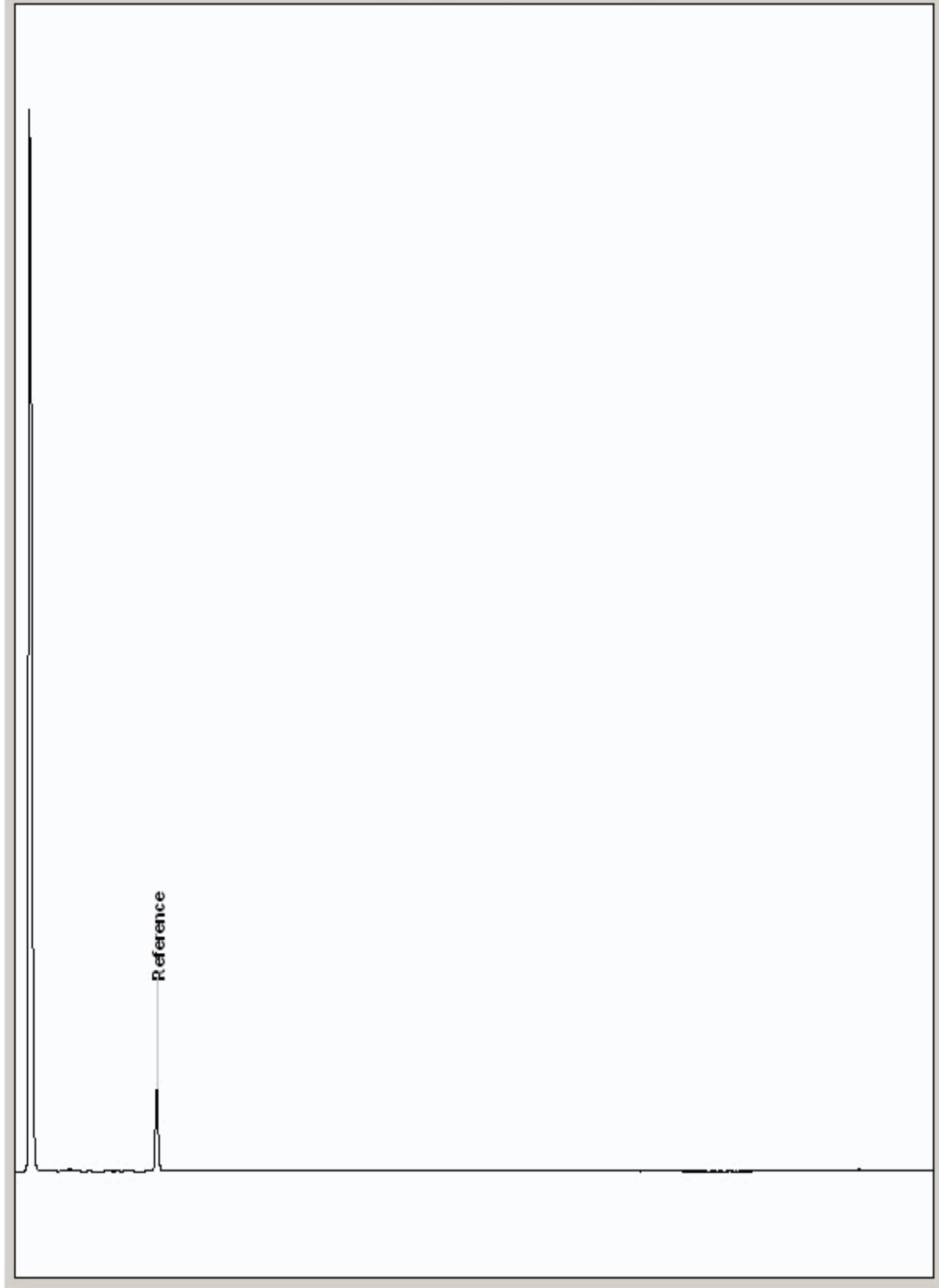
Chromatogram

Analysis: GRO by GC-FID (S)
19158473

Sample No :
Sample ID : BH223

19,158,473 Depth : 12.00 - 13.00

19158473_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

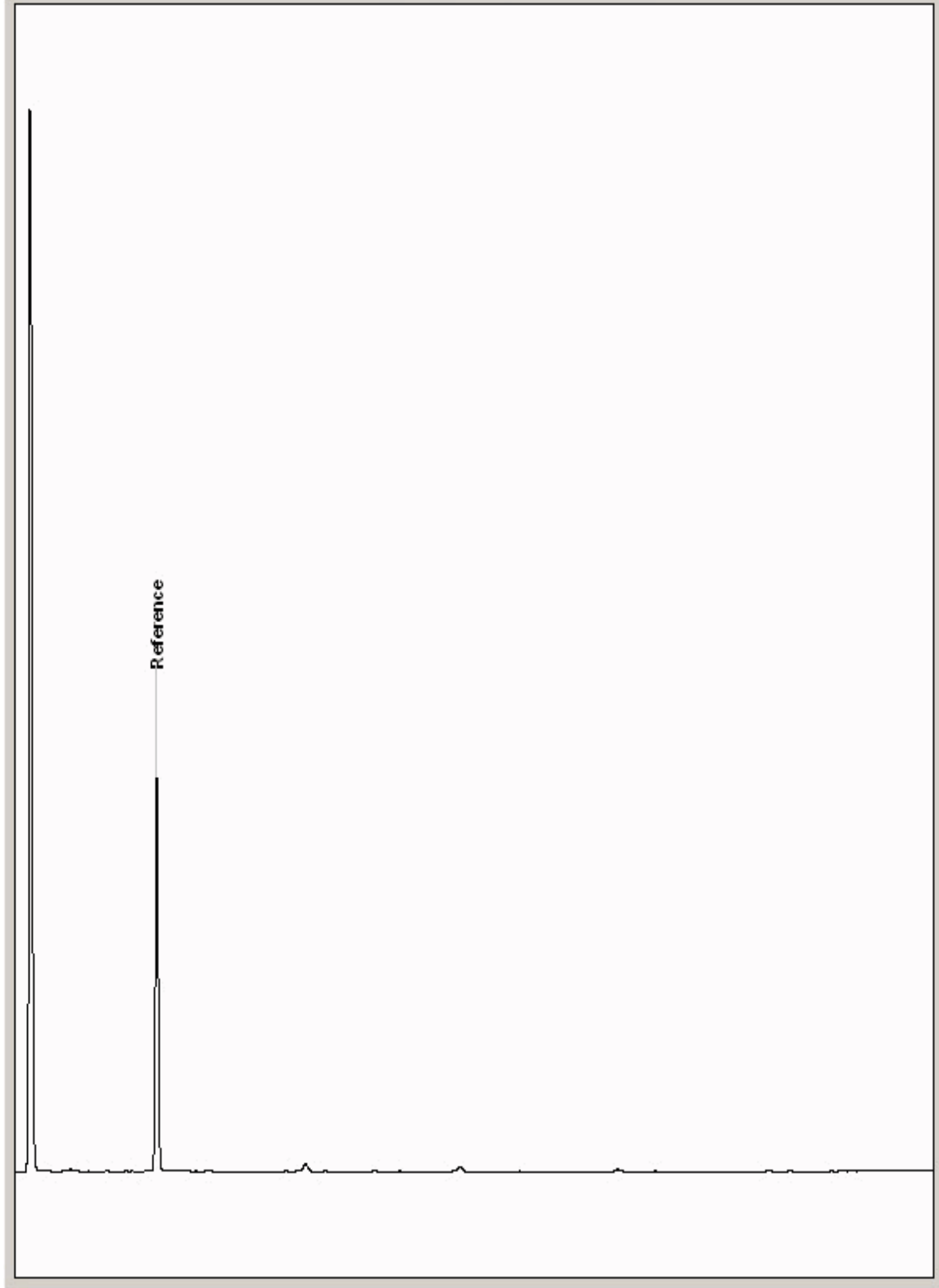
Chromatogram

Analysis: GRO by GC-FID (S)
19159055

Sample No :
Sample ID : BH235

19,159,055Depth :9.00 - 10.00

19159055_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

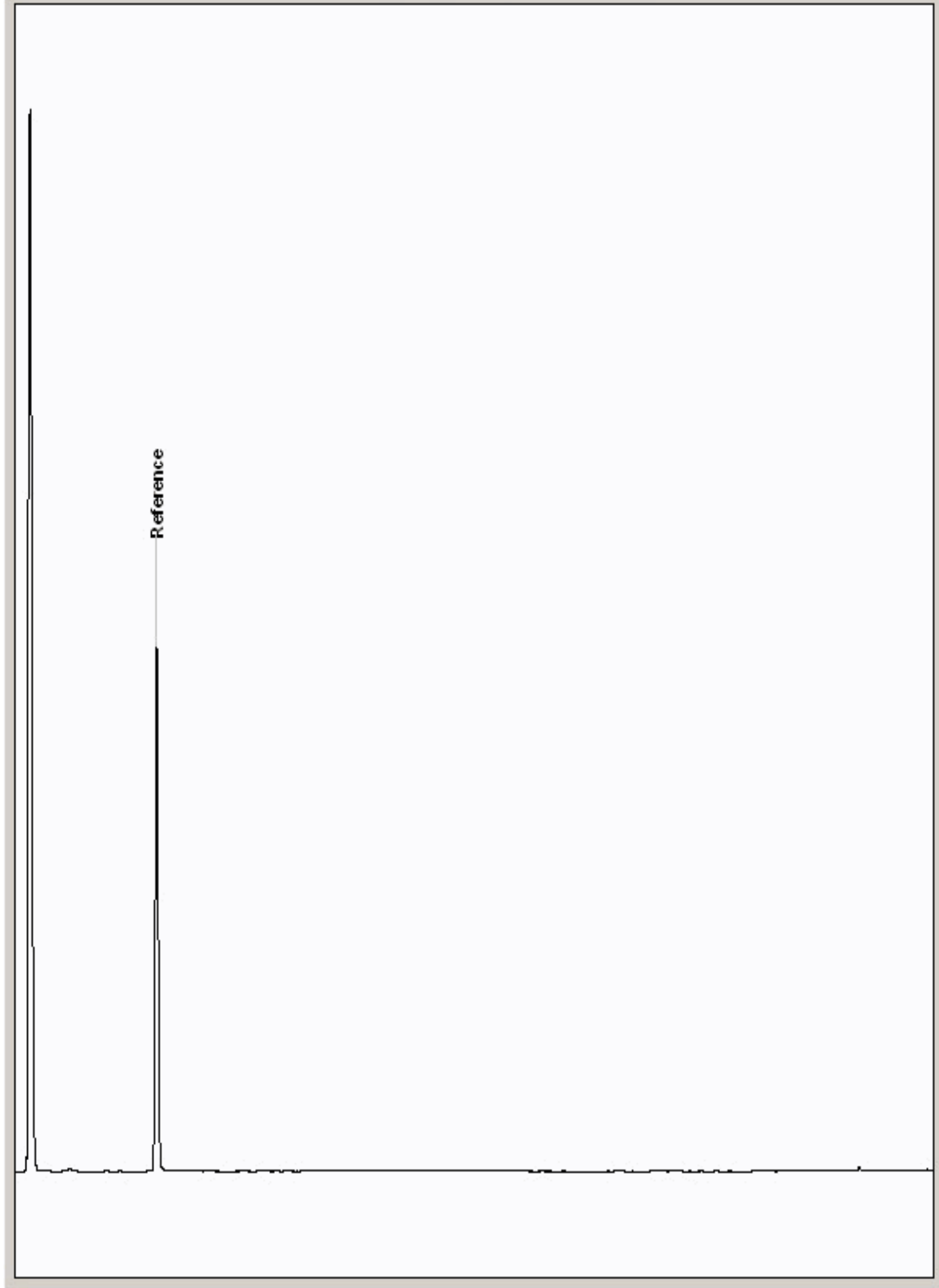
Chromatogram

Analysis: GRO by GC-FID (S)
19159071

Sample No :
Sample ID : BH218

19,159,071 **Depth :** 0.50 - 1.00

19159071_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	46
Your Reference:	602387	Samples Scheduled:	46

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19085823	BH214		0.00 - 0.50	18/12/2018
19025879	BH214		0.00 - 1.00	18/12/2018
19025878	BH214		1.00 - 2.00	18/12/2018
19025859	BH214		13.00 - 14.00	18/12/2018
19025860	BH214		14.00 - 15.00	18/12/2018
19025863	BH214		16.00 - 17.00	18/12/2018
19025877	BH214		2.00 - 3.00	18/12/2018
19025876	BH214		3.00 - 4.00	18/12/2018
19025874	BH214		4.00 - 5.00	18/12/2018
19025875	BH214		5.00 - 6.00	18/12/2018
19025864	BH214		8.00 - 9.00	18/12/2018
19025862	BH214		9.00 - 11.00	18/12/2018
19025858	BH215		0.00 - 0.50	19/12/2018
19025856	BH215		0.50 - 1.00	19/12/2018
19025854	BH215		1.00 - 2.00	19/12/2018
19025844	BH215		13.00 - 15.00	19/12/2018
19025843	BH215		15.00 - 16.00	19/12/2018
19025841	BH215		16.00 - 17.00	19/12/2018
19025897	BH215		2.00 - 3.00	19/12/2018
19025853	BH215		3.00 - 4.00	19/12/2018
19025857	BH215		4.00 - 5.00	19/12/2018
19025868	BH215		6.00 - 8.00	19/12/2018
19025881	BH216		0.00 - 0.50	19/12/2018
19025884	BH216		0.50 - 1.00	19/12/2018
19025888	BH216		1.00 - 2.00	19/12/2018
19025851	BH216		11.00 - 13.00	19/12/2018
19025846	BH216		13.00 - 14.00	20/12/2018
19025848	BH216		14.00 - 15.00	20/12/2018
19025847	BH216		15.00 - 17.00	20/12/2018
19025883	BH216		2.00 - 3.00	19/12/2018
19025882	BH216		4.00 - 5.00	19/12/2018
19025887	BH216		5.00 - 6.00	19/12/2018
19025886	BH216		6.00 - 8.00	19/12/2018
19025869	BH216		9.00 - 11.00	19/12/2018
19025894	BH217		0.00 - 0.50	20/12/2018
19025892	BH217		0.50 - 1.00	20/12/2018
19025865	BH217		1.00 - 2.00	20/12/2018
19025871	BH217		10.00 - 12.00	20/12/2018
19025852	BH217		12.50 - 14.00	20/12/2018
19025849	BH217		14.00 - 15.00	20/12/2018
19025870	BH217		15.00 - 16.00	20/12/2018
19025872	BH217		16.00 - 17.00	20/12/2018
19025866	BH217		2.00 - 3.00	20/12/2018
19025896	BH217		3.00 - 4.00	20/12/2018
19025890	BH217		4.00 - 5.00	20/12/2018
19025891	BH217		6.00 - 8.00	20/12/2018

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
	19025872	BH217		16.00 - 17.00	60g VOC (ALE215) 250g Amber Jar
	19025871	BH217		10.00 - 12.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19025870	BH217		15.00 - 16.00	60g VOC (ALE215) 250g Amber Jar
	19025866	BH217		2.00 - 3.00	1kg TUB 250g Amber Jar
	19025865	BH217		1.00 - 2.00	60g VOC (ALE215) 250g Amber Jar
	19025869	BH216		9.00 - 11.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19025868	BH215		6.00 - 8.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19025858	BH215		0.00 - 0.50	60g VOC (ALE215) 250g Amber Jar
	19025874	BH214		4.00 - 5.00	60g VOC (ALE215) 250g Amber Jar
	19025864	BH214		8.00 - 9.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19025863	BH214		16.00 - 17.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19025862	BH214		9.00 - 11.00	60g VOC (ALE215) 250g Amber Jar
	19025860	BH214		14.00 - 15.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
	19025859	BH214		13.00 - 14.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 45			
Anions by Kone (w)	All	NDPs: 0 Tests: 45			
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 45			
CEN Readings	All	NDPs: 0 Tests: 45			
Coronene	All	NDPs: 0 Tests: 45			
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 45			
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 45			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 45			
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 45			
Fluoride	All	NDPs: 0 Tests: 45			
GRO by GC-FID (S)	All	NDPs: 0 Tests: 46			
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 45			
Loss on Ignition in soils	All	NDPs: 0 Tests: 45			
Mercury Dissolved	All	NDPs: 0 Tests: 45			
Metals in solid samples by OES	All	NDPs: 0 Tests: 45			
Mineral Oil	All	NDPs: 0 Tests: 45			
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 45			
PAH by GCMS	All	NDPs: 0 Tests: 45			



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19025872	19025871	19025870	19025866	19025865	19025869	19025868	19025858	19025874	19025864	19025863	19025862	19025860	19025859
						BH217	BH217	BH217	BH217	BH217	BH216	BH215	BH215	BH214	BH214	BH214	BH214	BH214	BH214
PCBs by GCMS	All	NDPs: 0 Tests: 45			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 45			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 45			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 45			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 46			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 45			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 45			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 45			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 46			60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19025875	19025876	19025877	19025878	19025879	19025881	19025882	19025883	19025884	19025886	19025887	19025888	19025890	19025891	
						BH214	BH214	BH214	BH214	BH214	BH216	BH216	BH216	BH216	BH216	BH216	BH216	BH216	BH216	BH216
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 45		5.00 - 6.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 45		3.00 - 4.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 45		2.00 - 3.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 45		1.00 - 2.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 45		0.00 - 1.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 45		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 45		4.00 - 5.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 45		2.00 - 3.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 45		0.50 - 1.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 45		6.00 - 8.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 46		5.00 - 6.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 45		1.00 - 2.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 45		0.00 - 1.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 45		4.00 - 5.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 45		2.00 - 3.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 45		0.00 - 1.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 45		4.00 - 5.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 45		2.00 - 3.00	1kg TUB 60g VOC (ALE215) 250g Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19085823	19025897	19025891	19025892	19025894	19025896
Customer Sample Reference	BH214	BH215	BH217	BH217	BH217	BH217
AGS Reference						
Depth (m)	0.00 - 0.50	2.00 - 3.00	6.00 - 8.00	0.50 - 1.00	0.00 - 0.50	3.00 - 4.00
Container	60g VOC (ALE215) 1kg TUB	250g Amber Jar 250g VOC (ALE215)	250g Amber Jar 60g VOC (ALE215) 1kg TUB	250g Amber Jar 60g VOC (ALE215)	250g Amber Jar 60g VOC (ALE215)	60g VOC (ALE215) 250g Amber Jar 1kg TUB

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 45	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 45	X		X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 45	X		X	X	X
CEN Readings	All	NDPs: 0 Tests: 45	X		X	X	X
Coronene	All	NDPs: 0 Tests: 45	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 45	X		X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 45	X		X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 45	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 45	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 45	X		X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 46	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 45		X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 45	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 45	X		X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 45	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 45	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 45	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 45	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
19085823	BH214		0.00 - 0.50	60g VOC (ALE215) 1kg TUB
19025897	BH215		2.00 - 3.00	60g VOC (ALE215) 250g Amber Jar
19025891	BH217		6.00 - 8.00	250g Amber Jar 60g VOC (ALE215) 1kg TUB
19025892	BH217		0.50 - 1.00	60g VOC (ALE215) 250g Amber Jar
19025894	BH217		0.00 - 0.50	1kg TUB 60g VOC (ALE215) 250g Amber Jar
19025896	BH217		3.00 - 4.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB
PCBs by GCMS	All	NDPs: 0 Tests: 45		X X X X X
pH	All	NDPs: 0 Tests: 45		X X X X X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 45		X X X X X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 45		X X X X X
Sample description	All	NDPs: 0 Tests: 46		X X X X X X
Total Dissolved Solids	All	NDPs: 0 Tests: 45		X X X X X
Total Organic Carbon	All	NDPs: 0 Tests: 45		X X X X X
TPH CWG GC (S)	All	NDPs: 0 Tests: 45		X X X X X
VOC MS (S)	All	NDPs: 0 Tests: 46		X X X X X X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH214	BH214	BH214	BH214	BH214	BH214
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.00 - 1.00	1.00 - 2.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19085823	19025879	19025878	19025859	19025860	19025863
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	10	9.6	30	9.5	7.5	3.8
Loss on ignition	<0.7 %	TM018		2.33	6.15	0.929	1.44	1.6
Mineral Oil Surrogate % recovery**	%	TM061		68.3	61.5	78.8	72.4	71.9
Mineral oil >C10-C40	<1 mg/kg	TM061		32.7	4.47	<1	8.17	10.6
Phenol	<0.01 mg/kg	TM062 (S)		<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)		<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)		<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)		<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)		<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)		<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132		0.724	2.41	0.568	0.503	4.94
pH	1 pH Units	TM133		8.44	7.4	8.92	8.16	8.45
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168		<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168		<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181		10.7	14.9	6.2	9.68	4.23
Cadmium	<0.02 mg/kg	TM181		1.58	0.849	2.31	2.17	1.07
Chromium	<0.9 mg/kg	TM181		10.5	14.8	5.04	5.22	4.63
Copper	<1.4 mg/kg	TM181		39.6	52.9	11.4	22.8	8.71
Lead	<0.7 mg/kg	TM181		48.1	106	8.11	12.9	4.03
Mercury	<0.14 mg/kg	TM181		<0.14	0.81	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181		37.3	25.1	13.3	30.6	11.5
Selenium	<1 mg/kg	TM181		2.42	<1	1.59	3.54	1.37
Zinc	<1.9 mg/kg	TM181		90.4	100	67.3	64.7	32.8
ANC @ pH 4	<0.03 mol/kg	TM182		1.79	0.445	0.356	0.462	0.243
ANC @ pH 6	<0.03 mol/kg	TM182		0.0882	0.082	0.126	0.112	0.107
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410		<10	11.7	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH214	BH214	BH214	BH214	BH214	BH214
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	9.00 - 11.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025877	19025876	19025874	19025875	19025864	19025862
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	30	27	24	14	8.6	15
Loss on ignition	<0.7 %	TM018	7.62	6.29	4.87	3.21	<0.7	1.28
Mineral Oil Surrogate % recovery**	%	TM061	80.8	63.7	85.8	62.9	76.6	63.7
Mineral oil >C10-C40	<1 mg/kg	TM061	73.5	45.2	33.6	5.65	<1	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.6	3	2.43	0.616	0.249	0.365
pH	1 pH Units	TM133	7.74	7.36	7.7	8.81	9.02	9.07
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	14.9	13.1	14.1	9.76	2.48	7.01
Cadmium	<0.02 mg/kg	TM181	0.842	0.668	0.862	0.437	0.708	1.01
Chromium	<0.9 mg/kg	TM181	13.8	14.3	11.2	9.96	4.71	5
Copper	<1.4 mg/kg	TM181	44.3	47.8	42.7	22.9	6.59	12.5
Lead	<0.7 mg/kg	TM181	88.4	91.4	80.9	50	4.38	7.99
Mercury	<0.14 mg/kg	TM181	0.714	0.457	0.65	0.212	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	22.8	21.6	20.9	14.7	11.2	22.9
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	1.56
Zinc	<1.9 mg/kg	TM181	95.6	109	112	62.3	36.2	56.3
ANC @ pH 4	<0.03 mol/kg	TM182	0.387	0.425	0.222	0.2	0.199	0.19
ANC @ pH 6	<0.03 mol/kg	TM182	0.0591	0.0533	0.0505	0.0724	0.0797	0.0664
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	22.6	12.4	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH215	BH215	BH215	BH215	BH215	BH215
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	13.00 - 15.00	15.00 - 16.00	16.00 - 17.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025858	19025856	19025854	19025844	19025843	19025841
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	12	13	23	11	11	8.6
Loss on ignition	<0.7 %	TM018	4.03	2.03	4.54	1.08	2.12	2.87
Mineral Oil Surrogate % recovery**	%	TM061	64.1	68.9	82.8	83.2	67.3	73.6
Mineral oil >C10-C40	<1 mg/kg	TM061	32.8	28.3	13.2	<1	<1	21
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	4.21	1.98	1.8	0.703	0.624	1.17
pH	1 pH Units	TM133	8.77	7.98	7.54	8.25	8.47	8.17
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	5.31	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	12.5	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	26.1	5.19	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	22.2	3.18	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	21.5	3.72	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	15.7	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	3.25	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	107	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	17.8	10.8	12.3	9.51	10.5	9.99
Cadmium	<0.02 mg/kg	TM181	1.68	1.19	0.456	2.12	2.04	1.3
Chromium	<0.9 mg/kg	TM181	15.1	10.8	16.1	6.59	4.76	9.73
Copper	<1.4 mg/kg	TM181	152	62.1	29.2	26.2	23.8	30.8
Lead	<0.7 mg/kg	TM181	262	101	55.1	14.7	13.9	16.7
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	33.1	21.4	21.4	32.1	30	36.1
Selenium	<1 mg/kg	TM181	<1	<1	<1	2.57	2.86	2.75
Zinc	<1.9 mg/kg	TM181	597	250	78.1	82.7	93.2	79.6
ANC @ pH 4	<0.03 mol/kg	TM182	0.162	0.209	0.463	1.12	1.35	1.81
ANC @ pH 6	<0.03 mol/kg	TM182	0.0655	0.0587	0.0609	0.175	0.202	0.183
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	20.4	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	295	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH215	BH215	BH215	BH215	BH216	BH216
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 8.00	0.00 - 0.50	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025897	19025853	19025857	19025868	19025881	19025884
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	25	16	19	10	20	21
Loss on ignition	<0.7 %	TM018	4.03	3.71	4.36	1.51	6.08	5.53
Mineral Oil Surrogate % recovery**	%	TM061	67.4	69.9	67.9	74.2	83.5	78.5
Mineral oil >C10-C40	<1 mg/kg	TM061	4.04	21.2	28	<1	20.1	75.1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	0.0125	0.0378
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.45	1.44	1.75	1.09	1.92	2.17
pH	1 pH Units	TM133	8.33	8.2	7.59	8.56	7.58	7.35
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	8.17	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	9.51	3.25
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	15.1	6.18
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	12.9	6.12
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	12.7	5.12
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	8.85	4.32
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	67.3	25
Arsenic	<0.6 mg/kg	TM181	11	9.59	10.2	5.11	18	28.9
Cadmium	<0.02 mg/kg	TM181	0.59	0.88	0.517	0.251	1.52	2.93
Chromium	<0.9 mg/kg	TM181	11	9.23	12.7	6.41	15.2	15
Copper	<1.4 mg/kg	TM181	28.9	29.5	32	9.25	101	171
Lead	<0.7 mg/kg	TM181	52.5	38.9	62.5	9.92	206	336
Mercury	<0.14 mg/kg	TM181	0.522	<0.14	0.286	<0.14	0.471	0.147
Nickel	<0.2 mg/kg	TM181	18.5	22.4	18.8	17.6	21.9	21.3
Selenium	<1 mg/kg	TM181	<1	1.33	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	66.2	63.8	66.6	33.4	379	982
ANC @ pH 4	<0.03 mol/kg	TM182	0.175	0.569	0.245	0.0637	0.198	0.329
ANC @ pH 6	<0.03 mol/kg	TM182	0.0397	0.126	0.0537	0.0417	0.0655	0.0612
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	20.5
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH216	BH216	BH216	BH216	BH216	BH216
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	11.00 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	20/12/2018	20/12/2018	20/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025888	19025851	19025846	19025848	19025847	19025883
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	26	9.9	12	10	6.5	29
Loss on ignition	<0.7 %	TM018	6.56	1.7	0.894	0.756	1.35	7.5
Mineral Oil Surrogate % recovery**	%	TM061	65.2	64.5	74.1	70.2	73.7	76.4
Mineral oil >C10-C40	<1 mg/kg	TM061	22.6	<1	<1	32.4	9.98	198
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	0.0141
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.98	0.561	0.573	0.789	0.901	5.54
pH	1 pH Units	TM133	7.41	8.89	8.56	8.41	8.14	7.88
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	15.3	7.32	10.2	9.05	12.6	11.9
Cadmium	<0.02 mg/kg	TM181	1.26	1.17	1.91	1.79	1.81	1.2
Chromium	<0.9 mg/kg	TM181	10.6	5.91	5.61	8.65	6.26	12.1
Copper	<1.4 mg/kg	TM181	84.5	17.7	21.7	25.8	25.1	65.2
Lead	<0.7 mg/kg	TM181	163	10.6	13.8	20.5	13	141
Mercury	<0.14 mg/kg	TM181	0.349	<0.14	<0.14	<0.14	<0.14	0.909
Nickel	<0.2 mg/kg	TM181	19.5	25.3	30.1	30.2	37.6	20.1
Selenium	<1 mg/kg	TM181	<1	1.54	2.73	2.08	2.68	1.04
Zinc	<1.9 mg/kg	TM181	339	62.4	79.1	89.2	87.3	174
ANC @ pH 4	<0.03 mol/kg	TM182	0.414	0.586	0.957	1.19	0.806	0.393
ANC @ pH 6	<0.03 mol/kg	TM182	0.0671	0.144	0.191	0.183	0.101	0.0724
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	26.2
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH216	BH216	BH216	BH216	BH217	BH217
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	4.00 - 5.00	5.00 - 6.00	6.00 - 8.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	19/12/2018	20/12/2018	20/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025882	19025887	19025886	19025869	19025894	19025892
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	22	21	12	13	18	24
Loss on ignition	<0.7 %	TM018	4.64	5.32	1.19	1.51	3.36	4.99
Mineral Oil Surrogate % recovery**	%	TM061	65.2	75.2	80.3	80.6	71	68.8
Mineral oil >C10-C40	<1 mg/kg	TM061	24.5	10.2	15.2	<1	375	213
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	0.0127	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.08	1.87	1.84	0.505	1.43	1.97
pH	1 pH Units	TM133	7.53	7.81	7.76	8.79	12.5	7.37
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	3.01	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	3.08	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	8.15	9.59	8.49	7.62	9.99	10.6
Cadmium	<0.02 mg/kg	TM181	0.363	0.585	0.648	0.896	0.809	0.537
Chromium	<0.9 mg/kg	TM181	8.08	8.15	7.6	6.86	10.9	10.1
Copper	<1.4 mg/kg	TM181	25.7	30.8	24.3	15.1	36.2	21.5
Lead	<0.7 mg/kg	TM181	94.9	68.3	40.4	15.4	52	40.2
Mercury	<0.14 mg/kg	TM181	0.395	0.401	0.165	<0.14	<0.14	0.197
Nickel	<0.2 mg/kg	TM181	13.6	13.4	19.1	21.4	23	15.9
Selenium	<1 mg/kg	TM181	<1	<1	<1	1.09	<1	<1
Zinc	<1.9 mg/kg	TM181	71.6	107	64.3	59	138	58.3
ANC @ pH 4	<0.03 mol/kg	TM182	0.103	0.126	0.232	0.521	0.349	0.232
ANC @ pH 6	<0.03 mol/kg	TM182	0.041	0.0566	0.087	0.125	0.111	0.035
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH217	BH217	BH217	BH217	BH217	BH217
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	25	14	10	11	11	10
Loss on ignition	<0.7 %	TM018	3.34	2.77	2.24	3.99	1.83	1.59
Mineral Oil Surrogate % recovery**	%	TM061	71.2	80.8	81.1	82	81.2	74.6
Mineral oil >C10-C40	<1 mg/kg	TM061	94.3	<1	<1	<1	<1	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.73	0.458	1.11	0.708	0.606	0.692
pH	1 pH Units	TM133	7.91	8.83	8.43	8.37	8.48	8.2
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	14.2	6.41	7.48	9.7	14	8.4
Cadmium	<0.02 mg/kg	TM181	0.529	1.08	1.14	1.38	1.27	1.4
Chromium	<0.9 mg/kg	TM181	8.19	5.61	6.83	7.69	6.81	4.34
Copper	<1.4 mg/kg	TM181	24.7	16.3	24.2	25.3	24.5	25.9
Lead	<0.7 mg/kg	TM181	41.7	11.2	13.6	17.2	14.2	13.8
Mercury	<0.14 mg/kg	TM181	0.235	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	17.3	21.5	33.7	29.6	31.1	28.9
Selenium	<1 mg/kg	TM181	<1	1.16	1.74	3	2.92	3.57
Zinc	<1.9 mg/kg	TM181	61.1	56	54.8	64.7	67	64.2
ANC @ pH 4	<0.03 mol/kg	TM182	0.202	0.621	0.964	1.44	1.37	1.13
ANC @ pH 6	<0.03 mol/kg	TM182	0.0347	0.113	0.226	0.23	0.13	0.297
Asbestos Quantification - Gravimetric - %	<0.001 %	TM304			<0.001			
Asbestos Quantification - PCOM Evaluation - %	<0.001 %	TM304			<0.001			
Additional Asbestos Components (Using TM048)		TM304			None			
Analysts Comments		TM304			N/A			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH217	BH217	BH217	BH217		
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 8.00		
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
		Date Sampled	20/12/2018	20/12/2018	20/12/2018	20/12/2018		
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018		
		SDG Ref	181222-8	181222-8	181222-8	181222-8		
		Lab Sample No.(s)	19025866	19025896	19025890	19025891		
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	26	25	19	12		
Loss on ignition	<0.7 %	TM018	5.34	4.64	2.8	2.1		
Mineral Oil Surrogate % recovery**	%	TM061	66.2	77.5	63.7	75.2		
Mineral oil >C10-C40	<1 mg/kg	TM061	120	79.3	184	13.9		
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01		
Cresols	<0.01 mg/kg	TM062 (S)	0.0136	<0.01	<0.01	<0.01		
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015		
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01		
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015		
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06		
Organic Carbon, Total	<0.2 %	TM132	2.25	1.89	1.02	0.588		
pH	1 pH Units	TM133	7.98	7.57	7.68	8.37		
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6		
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3		
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3		
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21		
Arsenic	<0.6 mg/kg	TM181	11.4	11.4	8.31	7.15		
Cadmium	<0.02 mg/kg	TM181	0.71	0.655	0.719	0.642		
Chromium	<0.9 mg/kg	TM181	12.1	11.6	10.7	6.91		
Copper	<1.4 mg/kg	TM181	28.7	36.5	22.9	12.6		
Lead	<0.7 mg/kg	TM181	55.5	60.5	38.8	15.1		
Mercury	<0.14 mg/kg	TM181	0.497	0.409	<0.14	<0.14		
Nickel	<0.2 mg/kg	TM181	20.4	20.9	19.3	15.2		
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1		
Zinc	<1.9 mg/kg	TM181	73.8	78.2	59.1	44.9		
ANC @ pH 4	<0.03 mol/kg	TM182	0.324	0.318	0.456	0.286		
ANC @ pH 6	<0.03 mol/kg	TM182	0.0527	0.0472	0.0972	0.0744		
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10		
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200		



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH214	BH214	BH214	BH214	BH214	BH214
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 1.00	1.00 - 2.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025879	19025878	19025859	19025860	19025863	19025877
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	99.9	77.9	99.1	98.5	85	68.1
Acenaphthene-d10 % recovery**	%	TM218	94.2	78.2	94.7	86.3	81.3	78.2
Phenanthrene-d10 % recovery**	%	TM218	96.1	80.3	85.1	82.6	86.6	84.1
Chrysene-d12 % recovery**	%	TM218	91.5	87.2	80	83	112	81.9
Perylene-d12 % recovery**	%	TM218	89.9	76.8	81.3	73.8	77.5	81.8
Naphthalene	<9 µg/kg	TM218	39	230	<9	<9	<9	469
			@ M	@ M	@ M	@ M	@ M	@ M
Acenaphthylene	<12 µg/kg	TM218	20.1	101	<12	<12	<12	162
			@ M	@ M	@ M	@ M	@ M	@ M
Acenaphthene	<8 µg/kg	TM218	16.2	143	<8	<8	<8	323
			@ M	@ M	@ M	@ M	@ M	@ M
Fluorene	<10 µg/kg	TM218	28.1	388	<10	<10	12.1	898
			@ M	@ M	@ M	@ M	@ M	@ M
Phenanthrene	<15 µg/kg	TM218	251	1660	<15	23.8	35.4	3440
			@ M	@ M	@ M	@ M	@ M	@ M
Anthracene	<16 µg/kg	TM218	80.9	688	<16	21.8	35.7	1450
			@ M	@ M	@ M	@ M	@ M	@ M
Fluoranthene	<17 µg/kg	TM218	385	1920	<17	<17	<17	3840
			@ M	@ M	@ M	@ M	@ M	@ M
Pyrene	<15 µg/kg	TM218	333	1490	<15	<15	<15	2880
			@ M	@ M	@ M	@ M	@ M	@ M
Benz(a)anthracene	<14 µg/kg	TM218	230	1150	<14	<14	<14	2000
			@ M	@ M	@ M	@ M	@ M	@ M
Chrysene	<10 µg/kg	TM218	187	866	<10	<10	<10	1660
			@ M	@ M	@ M	@ M	@ M	@ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	330	877	<15	<15	<15	1930
			@ M	@ M	@ M	@ M	@ M	@ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	117	447	<14	<14	<14	787
			@ M	@ M	@ M	@ M	@ M	@ M
Benzo(a)pyrene	<15 µg/kg	TM218	213	812	<15	<15	<15	1400
			@ M	@ M	@ M	@ M	@ M	@ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	158	361	<18	<18	<18	663
			@ M	@ M	@ M	@ M	@ M	@ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	42.2	143	<23	<23	<23	175
			@ M	@ M	@ M	@ M	@ M	@ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	177	382	<24	<24	<24	534
			@ M	@ M	@ M	@ M	@ M	@ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2610	11700	<118	<118	<118	22600



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH214	BH214	BH214	BH214	BH214	BH215
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	9.00 - 11.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025876	19025874	19025875	19025864	19025862	19025858
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	76.1	98	83.7	101	70.7	79.6
Acenaphthene-d10 % recovery**	%	TM218	77.4	98.7	78.1	91.1	70.6	71.4
Phenanthrene-d10 % recovery**	%	TM218	84.2	106	77.5	88.9	62.1	73.5
Chrysene-d12 % recovery**	%	TM218	75.2	115	83.1	97.8	62.6	90.2
Perylene-d12 % recovery**	%	TM218	71.2	99.1	74.7	98	63.1	76.8
Naphthalene	<9 µg/kg	TM218	361	93.3	49	<9	<9	115
			@ M	@ M	@ M	@ M	@ M	♦ M
Acenaphthylene	<12 µg/kg	TM218	81.9	56.5	<12	<12	<12	110
			@ M	@ M	@ M	@ M	@ M	♦ M
Acenaphthene	<8 µg/kg	TM218	173	53.4	21.2	<8	<8	184
			@ M	@ M	@ M	@ M	@ M	♦ M
Fluorene	<10 µg/kg	TM218	471	140	56.6	<10	<10	258
			@ M	@ M	@ M	@ M	@ M	♦ M
Phenanthrene	<15 µg/kg	TM218	1820	617	203	37.1	<15	2130
			@ M	@ M	@ M	@ M	@ M	♦ M
Anthracene	<16 µg/kg	TM218	858	328	82.2	<16	<16	372
			@ M	@ M	@ M	@ M	@ M	♦ M
Fluoranthene	<17 µg/kg	TM218	2210	920	231	33.4	<17	3140
			@ M	@ M	@ M	@ M	@ M	♦ M
Pyrene	<15 µg/kg	TM218	1640	768	183	24.1	<15	2790
			@ M	@ M	@ M	@ M	@ M	♦ M
Benz(a)anthracene	<14 µg/kg	TM218	1070	555	125	18.2	<14	1780
			@ M	@ M	@ M	@ M	@ M	♦ M
Chrysene	<10 µg/kg	TM218	912	499	98.9	17.3	<10	1660
			@ M	@ M	@ M	@ M	@ M	♦ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	953	423	85.2	<15	<15	2560
			@ M	@ M	@ M	@ M	@ M	♦ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	393	171	36	<14	<14	766
			@ M	@ M	@ M	@ M	@ M	♦ M
Benzo(a)pyrene	<15 µg/kg	TM218	764	352	75.2	<15	<15	1730
			@ M	@ M	@ M	@ M	@ M	♦ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	309	134	32.7	<18	<18	1270
			@ M	@ M	@ M	@ M	@ M	♦ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	108	57.4	<23	<23	<23	207
			@ M	@ M	@ M	@ M	@ M	♦ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	318	172	39.5	<24	<24	1080
			@ M	@ M	@ M	@ M	@ M	♦ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	12400	5340	1320	130	<118	20200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH215	BH215	BH215	BH215	BH215	BH215
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	13.00 - 15.00	15.00 - 16.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025856	19025854	19025844	19025843	19025841	19025897
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	96.3	72.5	91.7	93.9	92.8	81.1
Acenaphthene-d10 % recovery**	%	TM218	88.7	71.3	92.5	87.4	93.4	82.1
Phenanthrene-d10 % recovery**	%	TM218	87.6	74.5	91.1	86.9	89.7	88.1
Chrysene-d12 % recovery**	%	TM218	94.1	79.9	89.1	89.5	78.1	102
Perylene-d12 % recovery**	%	TM218	90.7	71.1	85.6	78.3	68.9	84.8
Naphthalene	<9 µg/kg	TM218	63.4	27.3	<9	<9	<9	30.3
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthylene	<12 µg/kg	TM218	28.6	<12	<12	<12	<12	17.2
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthene	<8 µg/kg	TM218	65	15.5	<8	<8	<8	17.2
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluorene	<10 µg/kg	TM218	64	39.5	<10	<10	11.9	49.1
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Phenanthrene	<15 µg/kg	TM218	773	151	<15	<15	40	232
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Anthracene	<16 µg/kg	TM218	211	71.6	<16	<16	<16	104
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluoranthene	<17 µg/kg	TM218	1480	269	<17	<17	<17	428
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Pyrene	<15 µg/kg	TM218	1300	225	<15	<15	<15	329
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benz(a)anthracene	<14 µg/kg	TM218	781	185	<14	<14	<14	286
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Chrysene	<10 µg/kg	TM218	761	136	<10	<10	<10	236
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	1120	148	<15	<15	<15	247
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	443	60.3	<14	<14	<14	83.7
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(a)pyrene	<15 µg/kg	TM218	820	118	<15	<15	<15	167
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	426	52.2	<18	<18	<18	77.1
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	131	<23	<23	<23	<23	<23
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	535	60.6	<24	<24	<24	74.1
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	9000	1560	<118	<118	<118	2380



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH215	BH215	BH215	BH216	BH216	BH216
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	6.00 - 8.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025853	19025857	19025868	19025881	19025884	19025888
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	83.5	81	98.8	98.1	99.7	80.2
Acenaphthene-d10 % recovery**	%	TM218	86.3	84.2	97	98.9	98.7	75.9
Phenanthrene-d10 % recovery**	%	TM218	88.4	86.3	95.4	102	97	76.1
Chrysene-d12 % recovery**	%	TM218	88.8	88.2	95.7	102	106	89
Perylene-d12 % recovery**	%	TM218	72.8	80.5	96.1	86.2	109	81
Naphthalene	<9 µg/kg	TM218	429	489	67.5	301	205	80.7
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthylene	<12 µg/kg	TM218	112	101	<12	120	126	37.3
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthene	<8 µg/kg	TM218	140	131	17.5	118	204	52
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluorene	<10 µg/kg	TM218	500	335	56.3	281	279	95.7
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Phenanthrene	<15 µg/kg	TM218	1900	1210	230	1130	1820	417
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Anthracene	<16 µg/kg	TM218	707	549	85.3	529	1200	150
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluoranthene	<17 µg/kg	TM218	1680	1480	190	1690	4100	613
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Pyrene	<15 µg/kg	TM218	1200	1100	136	1460	3400	560
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benz(a)anthracene	<14 µg/kg	TM218	835	826	85.5	1010	1900	403
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Chrysene	<10 µg/kg	TM218	682	685	67.5	741	1620	322
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	570	692	58.8	851	1700	481
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	244	256	26.7	304	731	151
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(a)pyrene	<15 µg/kg	TM218	407	483	52.3	632	1550	338
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	192	215	<18	232	664	230
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	62	67.8	<23	97.7	229	42
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	179	210	<24	274	828	158
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	9840	8830	1070	9770	20500	4130



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH216	BH216	BH216	BH216	BH216	BH216
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	11.00 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00 - 17.00	2.00 - 3.00	4.00 - 5.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		19/12/2018	20/12/2018	20/12/2018	20/12/2018	19/12/2018	19/12/2018
diss.filt	Dissolved / filtered sample.		21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
tot.unfilt	Total / unfiltered sample.		181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
*	Subcontracted - refer to subcontractor report for accreditation status.		19025851	19025846	19025848	19025847	19025883	19025882
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	79.8	106	80.5	97.7	98.7	80.1
Acenaphthene-d10 % recovery**	%	TM218	77.5	94	74	88.4	92.5	79.4
Phenanthrene-d10 % recovery**	%	TM218	77.2	92.5	71.2	81.4	94.4	83.1
Chrysene-d12 % recovery**	%	TM218	72.5	102	75.1	73	98.9	82.2
Perylene-d12 % recovery**	%	TM218	68	102	65.9	60.5	91.5	76.2
Naphthalene	<9 µg/kg	TM218	22.7	18.5	13.3	14.1	1030	529
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	347	99.6
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	448	136
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluorene	<10 µg/kg	TM218	18.2	11.9	<10	11.6	1080	354
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Phenanthrene	<15 µg/kg	TM218	46.2	37.9	25.8	39	4240	1290
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Anthracene	<16 µg/kg	TM218	18.3	<16	<16	<16	1750	626
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluoranthene	<17 µg/kg	TM218	38	<17	<17	<17	4520	1460
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Pyrene	<15 µg/kg	TM218	23.5	<15	<15	<15	3410	1040
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	<14	2130	666
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Chrysene	<10 µg/kg	TM218	16.1	12.5	<10	23.4	1730	553
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	<15	1950	572
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	738	225
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	1480	430
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	545	155
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	215	54.5
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	580	153
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	183	<118	<118	<118	26200	8350



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH216	BH216	BH216	BH217	BH217	BH217
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	5.00 - 6.00	6.00 - 8.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	20/12/2018	20/12/2018	20/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025887	19025886	19025869	19025894	19025892	19025865
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	99.2	92.6	93.9	93.7	99.6	101
Acenaphthene-d10 % recovery**	%	TM218	91.9	95.8	93.4	90.6	90.3	102
Phenanthrene-d10 % recovery**	%	TM218	92	101	94.6	85.5	83.9	97.6
Chrysene-d12 % recovery**	%	TM218	100	104	92.3	82.6	88	100
Perylene-d12 % recovery**	%	TM218	99.6	85	79.5	85.3	88.4	99.8
Naphthalene	<9 µg/kg	TM218	464	332	102	123	43.7	12.9
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthylene	<12 µg/kg	TM218	119	98.2	29.1	31.6	<12	<12
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthene	<8 µg/kg	TM218	137	88.1	26.8	49.9	<8	<8
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluorene	<10 µg/kg	TM218	353	256	83.5	100	61.6	22.3
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Phenanthrene	<15 µg/kg	TM218	1250	927	254	365	169	65.7
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Anthracene	<16 µg/kg	TM218	540	422	104	145	53.4	43.3
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluoranthene	<17 µg/kg	TM218	1400	1170	234	425	92.3	91.2
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Pyrene	<15 µg/kg	TM218	1040	906	182	377	88.6	78.5
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benz(a)anthracene	<14 µg/kg	TM218	674	610	111	190	59.2	63.3
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Chrysene	<10 µg/kg	TM218	561	440	85.8	173	49.9	50.7
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	658	389	68	197	68.8	60.8
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	258	176	32.2	95.8	29.6	21.5
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(a)pyrene	<15 µg/kg	TM218	500	321	62.6	192	50.2	45.6
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	187	106	<18	83.9	<18	<18
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	73	48	<23	29.2	<23	<23
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	201	123	<24	110	<24	<24
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	8420	6420	1370	2690	766	556



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH217	BH217	BH217	BH217	BH217	BH217
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 12.00	12.50 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	20/12/2018	20/12/2018	20/12/2018	20/12/2018	20/12/2018	20/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025871	19025852	19025849	19025870	19025872	19025866
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	92.4	90.4	94.9	92.8	94.4	80.3
Acenaphthene-d10 % recovery**	%	TM218	96.5	96	92.5	93.3	87.7	81.2
Phenanthrene-d10 % recovery**	%	TM218	101	103	93.9	94.8	85.6	82.2
Chrysene-d12 % recovery**	%	TM218	101	104	93	94.8	79.7	86.6
Perylene-d12 % recovery**	%	TM218	81.3	84.1	76.8	75.5	70.6	73.8
Naphthalene	<9 µg/kg	TM218	<9	<9	<9	<9	17.7	54.9
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	<8	19.2
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluorene	<10 µg/kg	TM218	<10	<10	11.4	<10	12.1	73
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Phenanthrene	<15 µg/kg	TM218	26	17.7	34.2	24.4	43.6	214
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Anthracene	<16 µg/kg	TM218	<16	<16	<16	<16	<16	82.3
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Fluoranthene	<17 µg/kg	TM218	20.1	<17	21.3	<17	20.2	223
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Pyrene	<15 µg/kg	TM218	<15	<15	17.7	<15	<15	179
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14	<14	<14	<14	134
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Chrysene	<10 µg/kg	TM218	<10	<10	<10	<10	14.2	112
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15	<15	<15	<15	146
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14	<14	<14	<14	50.7
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15	<15	<15	<15	87.1
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18	<18	<18	<18	46.7
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24	<24	<24	<24	42.8
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	<118	<118	<118	1470



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH217	BH217	BH217			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		3.00 - 4.00	4.00 - 5.00	6.00 - 8.00			
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
diss.filt	Dissolved / filtered sample.		20/12/2018	20/12/2018	20/12/2018			
tot.unfilt	Total / unfiltered sample.		21/12/2018	21/12/2018	21/12/2018			
*	Subcontracted - refer to subcontractor report for accreditation status.		181222-8	181222-8	181222-8			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	19025896	19025890	19025891				
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	90.7	75	91.3			
Acenaphthene-d10 % recovery**	%	TM218	93.3	78.6	91.5			
Phenanthrene-d10 % recovery**	%	TM218	92	81.4	91.3			
Chrysene-d12 % recovery**	%	TM218	95.8	76.4	92.3			
Perylene-d12 % recovery**	%	TM218	86.6	74.8	84			
Naphthalene	<9 µg/kg	TM218	31.3	57.8	<9			
			♦ M	♦ M	♦ M			
Acenaphthylene	<12 µg/kg	TM218	16.8	48.8	<12			
			♦ M	♦ M	♦ M			
Acenaphthene	<8 µg/kg	TM218	<8	33.4	<8			
			♦ M	♦ M	♦ M			
Fluorene	<10 µg/kg	TM218	53.1	92.4	<10			
			♦ M	♦ M	♦ M			
Phenanthrene	<15 µg/kg	TM218	161	408	32.1			
			♦ M	♦ M	♦ M			
Anthracene	<16 µg/kg	TM218	106	211	<16			
			♦ M	♦ M	♦ M			
Fluoranthene	<17 µg/kg	TM218	349	582	31.4			
			♦ M	♦ M	♦ M			
Pyrene	<15 µg/kg	TM218	276	417	27.6			
			♦ M	♦ M	♦ M			
Benz(a)anthracene	<14 µg/kg	TM218	300	330	20.4			
			♦ M	♦ M	♦ M			
Chrysene	<10 µg/kg	TM218	246	271	15.9			
			♦ M	♦ M	♦ M			
Benzo(b)fluoranthene	<15 µg/kg	TM218	287	323	17.5			
			♦ M	♦ M	♦ M			
Benzo(k)fluoranthene	<14 µg/kg	TM218	118	124	<14			
			♦ M	♦ M	♦ M			
Benzo(a)pyrene	<15 µg/kg	TM218	181	215	<15			
			♦ M	♦ M	♦ M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	86.3	77.6	<18			
			♦ M	♦ M	♦ M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	29.8	<23			
			♦ M	♦ M	♦ M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218	87.9	93.1	<24			
			♦ M	♦ M	♦ M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2300	3310	145			



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH214	BH214	BH214	BH214	BH214	BH214
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 1.00	1.00 - 2.00	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025879	19025878	19025859	19025860	19025863	19025877
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	56.9	71.3	73.3	16.6	20.4	96.4
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @	<100 @	<100 @	<100 @	<100 @	485 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	18.6 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	57.2 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	<10 @	11 @	<10 @	<10 @	110 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	134 @
Aliphatics >C12-C16	<100 µg/kg	TM173	3720	1450	<100	1560	1940	3030
Aliphatics >C16-C21	<100 µg/kg	TM173	4520	6030	<100	1440	2410	14400
Aliphatics >C21-C35	<100 µg/kg	TM173	42800	24000	<100	9260	14100	525000
Aliphatics >C35-C44	<100 µg/kg	TM173	19200	476	<100	2100	7420	328000
Total Aliphatics >C12-C44	<100 µg/kg	TM173	70200	31900	<100	14400	25900	870000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	72.9 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	88.7 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	1420	15800	<100	689	955	8840
Aromatics >EC16-EC21	<100 µg/kg	TM173	3960	81100	<100	1640	1810	49700
Aromatics >EC21-EC35	<100 µg/kg	TM173	49800	194000	<100	6520	9070	244000
Aromatics >EC35-EC44	<100 µg/kg	TM173	30300	41500	<100	3560	4820	121000
Aromatics >EC40-EC44	<100 µg/kg	TM173	12300	12400	<100	1440	1680	49200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	85400	332000	<100	12400	16600	423000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	156000	364000	<100	26800	42500	1290000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH214	BH214	BH214	BH214	BH214	BH215
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	9.00 - 11.00	0.00 - 0.50
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025876	19025874	19025875	19025864	19025862	19025858
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	95.6	98	101	137	86.4	68.4
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	369 @	133 @	233 @	<100 @	173 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	21.9 @	<10 @	10.4 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	49.3 @	27.7 @	33.6 @	<10 @	23.6 @	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089	94.5 @	30.4 @	60.3 @	<10 @	56.6 @	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	82.2 @	26.4 @	52.2 @	<10 @	28.3 @	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173	796 @	477 @	<100 @	<100 @	<100 @	3050 @
Aliphatics >C16-C21	<100 µg/kg	TM173	2850 @	2350 @	2340 @	<100 @	<100 @	8350 @
Aliphatics >C21-C35	<100 µg/kg	TM173	19300 @	47200 @	44600 @	4180 @	736 @	51000 @
Aliphatics >C35-C44	<100 µg/kg	TM173	5410 @	21600 @	21100 @	2280 @	<100 @	25600 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173	28400 @	71600 @	68000 @	6460 @	736 @	88000 @
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	63 @	21.1 @	40.6 @	<10 @	37.8 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	54.8 @	17.2 @	34.8 @	<10 @	18.9 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	6400 @	3020 @	2050 @	<100 @	935 @	5490 @
Aromatics >EC16-EC21	<100 µg/kg	TM173	40700 @	17600 @	13000 @	<100 @	896 @	34000 @
Aromatics >EC21-EC35	<100 µg/kg	TM173	96400 @	81600 @	47100 @	<100 @	1200 @	137000 @
Aromatics >EC35-EC44	<100 µg/kg	TM173	18300 @	29700 @	10700 @	<100 @	426 @	60200 @
Aromatics >EC40-EC44	<100 µg/kg	TM173	4560 @	10200 @	2920 @	<100 @	<100 @	23500 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	162000 @	132000 @	72900 @	<100 @	3450 @	237000 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	191000 @	204000 @	141000 @	6460 @	4350 @	325000 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH215	BH215	BH215	BH215	BH215	BH215
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	13.00 - 15.00	15.00 - 16.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025856	19025854	19025844	19025843	19025841	19025897
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	82.2	87	18.8	12.6	10.7	90.3
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100	<100	<100	<100	<100	<100
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	591	<100	3240	992	2370	560
Aliphatics >C16-C21	<100 µg/kg	TM173	3750	567	3000	354	2080	1730
Aliphatics >C21-C35	<100 µg/kg	TM173	67700	11900	8320	1260	6170	18000
Aliphatics >C35-C44	<100 µg/kg	TM173	35400	4270	1850	<100	1510	7220
Total Aliphatics >C12-C44	<100 µg/kg	TM173	107000	16700	16400	2600	12100	27500
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	2490	2050	4900	194	1770	1280
Aromatics >EC16-EC21	<100 µg/kg	TM173	19900	11700	4520	129	2810	9470
Aromatics >EC21-EC35	<100 µg/kg	TM173	110000	45200	8230	<100	6340	42100
Aromatics >EC35-EC44	<100 µg/kg	TM173	40300	15500	820	358	969	7170
Aromatics >EC40-EC44	<100 µg/kg	TM173	14400	5740	<100	<100	388	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	172000	74500	18500	681	11900	60000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	280000	91200	34900	3280	24000	87500



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH215	BH215	BH215	BH216	BH216	BH216
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	3.00 - 4.00	4.00 - 5.00	6.00 - 8.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025853	19025857	19025868	19025881	19025884	19025888
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	86.9	83.6	89.9	89.2	75.6	80
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	551	448	<100	158	<100	25000
Aliphatics >C5-C6	<10 µg/kg	TM089	11.9	11.1	<10	<10	<10	18.9
Aliphatics >C6-C8	<10 µg/kg	TM089	42.8	38.1	<10	20	15.1	186
Aliphatics >C8-C10	<10 µg/kg	TM089	111	93.5	11.2	38.8	29	7220
Aliphatics >C10-C12	<10 µg/kg	TM089	186	144	10.1	41.3	31.5	7660
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	718	<100	751	1320	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	4570	<100	5000	4570	3380
Aliphatics >C21-C35	<100 µg/kg	TM173	16800	59800	6950	27700	40400	51100
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	32000	<100	2720	15800	10700
Total Aliphatics >C12-C44	<100 µg/kg	TM173	16800	97100	6950	36200	62100	65100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	73.8	62.7	<10	26.3	18.9	4810
Aromatics >EC10-EC12	<10 µg/kg	TM089	124	95.9	<10	27.5	21.4	5110
Aromatics >EC12-EC16	<100 µg/kg	TM173	9240	6680	1290	6910	4500	2800
Aromatics >EC16-EC21	<100 µg/kg	TM173	28000	34200	4460	35800	30400	22800
Aromatics >EC21-EC35	<100 µg/kg	TM173	65900	91700	12700	119000	112000	83800
Aromatics >EC35-EC44	<100 µg/kg	TM173	14000	24200	3210	39600	36800	21700
Aromatics >EC40-EC44	<100 µg/kg	TM173	3560	7200	<100	13400	13100	6710
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	117000	157000	21700	202000	184000	131000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	134000	254000	28700	238000	246000	221000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH217	BH217	BH217	BH217	BH217	BH217
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	10.00 - 12.00	12.50 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	20/12/2018	20/12/2018	20/12/2018	20/12/2018	20/12/2018	20/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025871	19025852	19025849	19025870	19025872	19025866
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	106	17.2	18.1	20.9	21.9	93
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	154	<100	<100	<100	<100	4480
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	<10	<10	23.1
Aliphatics >C6-C8	<10 µg/kg	TM089	26.9	<10	<10	<10	<10	69.4
Aliphatics >C8-C10	<10 µg/kg	TM089	26.9	<10	<10	<10	<10	683
Aliphatics >C10-C12	<10 µg/kg	TM089	43.3	<10	<10	<10	<10	1950
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	608	2780	2390	2300	37500
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	694	2660	2860	1860	50300
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	6150	8020	9520	8460	48700
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	1660	1530	3510	4410	11500
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	9110	15000	18300	17000	148000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	17.6	<10	<10	<10	<10	454
Aromatics >EC10-EC12	<10 µg/kg	TM089	29.3	<10	<10	<10	<10	1300
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	979	1640	948	508	18700
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	2140	2890	1600	448	36700
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	5660	10500	5320	<100	69900
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	1290	8440	1380	<100	14000
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	290	4500	<100	<100	3950
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	10100	23500	9250	956	139000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	<100	19200	38500	27500	18000	292000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH214	BH214	BH214	BH214	BH214	BH214
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	8.00 - 9.00	9.00 - 11.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
diss.filt	Dissolved / filtered sample.		21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
tot.unfilt	Total / unfiltered sample.		181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
+	Subcontracted - refer to subcontractor report for accreditation status.		19025877	19025876	19025874	19025875	19025864	19025862
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	110 @	125 @	108 @	120 @	109 @	109 @
Toluene-d8**	%	TM116	97.1 @	99.7 @	96.2 @	97.4 @	96.6 @	97.4 @
4-Bromofluorobenzene**	%	TM116	89.8 @	96.1 @	89.3 @	96.2 @	83.7 @	94.6 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 @ M	<100 @ M	<100 @ M	<100 @ M	<10 @ M	<200 @ M
Benzene	<9 µg/kg	TM116	<180 @ M	<90 @ M	<90 @ M	<90 @ M	<9 @ M	<180 @ M
Toluene	<7 µg/kg	TM116	<140 @ M	<70 @ M	<70 @ M	<70 @ M	<7 @ M	<140 @ M
Ethylbenzene	<4 µg/kg	TM116	<80 @ M	<40 @ M	<40 @ M	<40 @ M	<4 @ M	<80 @ M
p/m-Xylene	<10 µg/kg	TM116	<200 @ #	<100 @ #	<100 @ #	<100 @ #	<10 @ #	<200 @ #
o-Xylene	<10 µg/kg	TM116	<200 @ M	<100 @ M	<100 @ M	<100 @ M	<10 @ M	<200 @ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4 @	<0.2 @	<0.2 @	<0.2 @	<0.02 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<800 @	<400 @	<400 @	<400 @	<40 @	<800 @



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH215	BH215	BH215	BH215	BH215	BH215
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	13.00 - 15.00	15.00 - 16.00	16.00 - 17.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025858	19025856	19025854	19025844	19025843	19025841
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	112	107	100	104	106	100
			♦	♦	♦	♦	♦	♦
Toluene-d8**	%	TM116	97.3	97.4	90.1	98.2	98.9	98.2
			♦	♦	♦	♦	♦	♦
4-Bromofluorobenzene**	%	TM116	87.5	96.6	71.3	94.3	94.2	97.6
			♦	♦	♦	♦	♦	♦
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200	<100	<10	<2000	<2000	<2000
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzene	<9 µg/kg	TM116	<180	<90	<9	<1800	<1800	<1800
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Toluene	<7 µg/kg	TM116	<140	<70	<7	<1400	<1400	<1400
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Ethylbenzene	<4 µg/kg	TM116	<80	<40	<4	<800	<800	<800
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
p/m-Xylene	<10 µg/kg	TM116	<200	<100	<10	<2000	<2000	<2000
			♦ #	♦ #	♦ #	♦ #	♦ #	♦ #
o-Xylene	<10 µg/kg	TM116	<200	<100	<10	<2000	<2000	<2000
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4	<0.2	<0.02	<4	<4	<4
			♦	♦	♦	♦	♦	♦
Sum of BTEX	<40 µg/kg	TM116	<800	<400	<40	<8000	<8000	<8000
			♦	♦	♦	♦	♦	♦



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH215	BH215	BH215	BH215	BH216	BH216
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 8.00	0.00 - 0.50	0.50 - 1.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
diss.filt	Dissolved / filtered sample.		21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
tot.unfilt	Total / unfiltered sample.		181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
+	Subcontracted - refer to subcontractor report for accreditation status.		19025897	19025853	19025857	19025868	19025881	19025884
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	103	116	113	109	113	107
Toluene-d8**	%	TM116	93.1	99.7	97	94.9	97.9	97.2
4-Bromofluorobenzene**	%	TM116	70.1	95.5	95.1	82.8	88.4	96
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<100	<100	<10	<100	<200
Benzene	<9 µg/kg	TM116	<9	<90	<90	<9	<90	<180
Toluene	<7 µg/kg	TM116	<7	<70	<70	<7	<70	<140
Ethylbenzene	<4 µg/kg	TM116	<4	<40	<40	<4	<40	<80
p/m-Xylene	<10 µg/kg	TM116	<10	<100	<100	<10	<100	<200
o-Xylene	<10 µg/kg	TM116	<10	<100	<100	<10	<100	<200
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.02	<0.2	<0.2	<0.02	<0.2	<0.4
Sum of BTEX	<40 µg/kg	TM116	<40	<400	<400	<40	<400	<800



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH216	BH216	BH216	BH216	BH216	BH216
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	11.00 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00 - 17.00	2.00 - 3.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	19/12/2018	19/12/2018	20/12/2018	20/12/2018	20/12/2018	19/12/2018
		Date Received	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018
		SDG Ref	181222-8	181222-8	181222-8	181222-8	181222-8	181222-8
		Lab Sample No.(s)	19025888	19025851	19025846	19025848	19025847	19025883
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	105	118	111	113	104	108
			♦	♦	♦	♦	♦	♦
Toluene-d8**	%	TM116	89.7	96.8	96.9	96	98.3	96.8
			♦	♦	♦	♦	♦	♦
4-Bromofluorobenzene**	%	TM116	88	88.1	91.4	80.4	94.1	93.2
			♦	♦	♦	♦	♦	♦
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<100	<200	<200	<200	<2000	<100
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Benzene	<9 µg/kg	TM116	<90	<180	<180	<180	<1800	<90
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Toluene	<7 µg/kg	TM116	<70	<140	<140	<140	<1400	<70
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Ethylbenzene	<4 µg/kg	TM116	<40	<80	<80	<80	<800	<40
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
p/m-Xylene	<10 µg/kg	TM116	<100	<200	<200	<200	<2000	<100
			♦ #	♦ #	♦ #	♦ #	♦ #	♦ #
o-Xylene	<10 µg/kg	TM116	<100	<200	<200	<200	<2000	<100
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.2	<0.4	<0.4	<0.4	<4	<0.2
			♦	♦	♦	♦	♦	♦
Sum of BTEX	<40 µg/kg	TM116	<400	<800	<800	<800	<8000	<400
			♦	♦	♦	♦	♦	♦



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH216	BH216	BH216	BH216	BH217	BH217	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.00 - 5.00	5.00 - 6.00	6.00 - 8.00	9.00 - 11.00	0.00 - 0.50	0.50 - 1.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		19/12/2018	19/12/2018	19/12/2018	19/12/2018	20/12/2018	20/12/2018	
diss.filt	Dissolved / filtered sample.		21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	21/12/2018	
tot.unfilt	Total / unfiltered sample.		181222-8	181222-8	181222-8	181222-8	181222-8	181222-8	
*	Subcontracted - refer to subcontractor report for accreditation status.		19025882	19025887	19025886	19025869	19025894	19025892	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Dibromofluoromethane**	%		TM116	107	108	111	111	110	109
Toluene-d8**	%	TM116	97.8	97.3	94	96.7	97.5	97.2	
4-Bromofluorobenzene**	%	TM116	93.7	93.4	77.3	88.6	92	93	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<100	<100	<10	<10	<200	<100	
Benzene	<9 µg/kg	TM116	<90	<90	<9	<9	<180	<90	
Toluene	<7 µg/kg	TM116	<70	<70	<7	<7	<140	<70	
Ethylbenzene	<4 µg/kg	TM116	<40	<40	<4	<4	<80	<40	
p/m-Xylene	<10 µg/kg	TM116	<100	<100	<10	<10	<200	<100	
o-Xylene	<10 µg/kg	TM116	<100	<100	<10	<10	<200	<100	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.2	<0.2	<0.02	<0.02	<0.4	<0.2	
Sum of BTEX	<40 µg/kg	TM116	<400	<400	<40	<40	<800	<400	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH217	BH217	BH217	BH217	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	6.00 - 8.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		20/12/2018	20/12/2018	20/12/2018	20/12/2018	
diss.filt	Dissolved / filtered sample.		21/12/2018	21/12/2018	21/12/2018	21/12/2018	
tot.unfilt	Total / unfiltered sample.		181222-8	181222-8	181222-8	181222-8	
+	Subcontracted - refer to subcontractor report for accreditation status.		19025866	19025896	19025890	19025891	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.						
1-3*§@	Sample deviation (see appendix)						
Component	LOD/Units		Method				
Dibromofluoromethane**	%		TM116	108	107	108	124
			2	◆	◆	◆	
Toluene-d8**	%	TM116	96.4	96.8	97.7	94.3	
			2	◆	◆	◆	
4-Bromofluorobenzene**	%	TM116	87.8	91	99.4	73.6	
			2	◆	◆	◆	
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<100	<100	<200	<10	
			2 M	◆ M	◆ M	◆ M	
Benzene	<9 µg/kg	TM116	<90	<90	<180	<9	
			2 M	◆ M	◆ M	◆ M	
Toluene	<7 µg/kg	TM116	<70	<70	<140	<7	
			2 M	◆ M	◆ M	◆ M	
Ethylbenzene	<4 µg/kg	TM116	<40	<40	<80	<4	
			2 M	◆ M	◆ M	◆ M	
p/m-Xylene	<10 µg/kg	TM116	<100	<100	<200	<10	
			2 #	◆ #	◆ #	◆ #	
o-Xylene	<10 µg/kg	TM116	<100	<100	<200	<10	
			2 M	◆ M	◆ M	◆ M	
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.2	<0.2	<0.4	<0.02	
			2	◆	◆	◆	
Sum of BTEX	<40 µg/kg	TM116	<400	<400	<800	<40	
			2	◆	◆	◆	



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+§@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
10/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 0.00 - 1.00 SOLID 18/12/2018 00:00:00 09/01/2019 10:18:11 181222-8 19,025,879 TM048								
03/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 1.00 - 2.00 SOLID 18/12/2018 00:00:00 27/12/2018 11:35:29 181222-8 19,025,878 TM048								
04/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 13.00 - 14.00 SOLID 18/12/2018 00:00:00 27/12/2018 15:44:28 181222-8 19,025,859 TM048								
07/01/2019	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 14.00 - 15.00 SOLID 18/12/2018 00:00:00 27/12/2018 12:33:57 181222-8 19,025,860 TM048								
03/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 16.00 - 17.00 SOLID 18/12/2018 00:00:00 27/12/2018 10:57:48 181222-8 19,025,863 TM048								



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 2.00 - 3.00 SOLID 18/12/2018 00:00:00 27/12/2018 12:15:55 181222-8 19,025,877 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 3.00 - 4.00 SOLID 18/12/2018 00:00:00 27/12/2018 12:18:58 181222-8 19,025,876 TM048	04/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 4.00 - 5.00 SOLID 18/12/2018 00:00:00 27/12/2018 12:21:24 181222-8 19,025,874 TM048	07/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 5.00 - 6.00 SOLID 18/12/2018 00:00:00 27/12/2018 12:56:41 181222-8 19,025,875 TM048	04/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 8.00 - 9.00 SOLID 18/12/2018 00:00:00 28/12/2018 07:49:51 181222-8 19,025,864 TM048	04/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH214 NS Z 9.00 - 11.00 SOLID 18/12/2018 00:00:00 28/12/2018 07:06:32 181222-8 19,025,862 TM048	03/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 0.00 - 0.50 SOLID 19/12/2018 00:00:00 27/12/2018 15:46:18 181222-8 19,025,858 TM048	04/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 0.50 - 1.00 SOLID 19/12/2018 00:00:00 27/12/2018 12:50:11 181222-8 19,025,856 TM048	03/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 1.00 - 2.00 SOLID 19/12/2018 00:00:00 27/12/2018 13:19:06 181222-8 19,025,854 TM048	04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 13.00 - 15.00 SOLID 19/12/2018 00:00:00 27/12/2018 11:24:59 181222-8 19,025,844 TM048	07/01/2019	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 15.00 - 16.00 SOLID 19/12/2018 00:00:00 27/12/2018 12:17:45 181222-8 19,025,843 TM048	07/01/2019	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 16.00 - 17.00 SOLID 19/12/2018 00:00:00 27/12/2018 11:37:48 181222-8 19,025,841 TM048	04/01/2019	Andrzej Ferdecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 2.00 - 3.00 SOLID 19/12/2018 00:00:00 27/12/2018 10:59:08 181222-8 19,025,897 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 3.00 - 4.00 SOLID 19/12/2018 00:00:00 27/12/2018 12:29:30 181222-8 19,025,853 TM048	04/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 4.00 - 5.00 SOLID 19/12/2018 00:00:00 27/12/2018 12:52:20 181222-8 19,025,857 TM048	04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH215 NS Z 6.00 - 8.00 SOLID 19/12/2018 00:00:00 28/12/2018 07:45:31 181222-8 19,025,868 TM048	07/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 0.00 - 0.50 SOLID 19/12/2018 00:00:00 27/12/2018 11:28:24 181222-8 19,025,881 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 0.50 - 1.00 SOLID 19/12/2018 00:00:00 27/12/2018 10:53:08 181222-8 19,025,884 TM048	07/01/2019	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 1.00 - 2.00 SOLID 19/12/2018 00:00:00 27/12/2018 13:03:05 181222-8 19,025,888 TM048	04/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 11.00 - 13.00 SOLID 19/12/2018 00:00:00 27/12/2018 12:18:53 181222-8 19,025,851 TM048	07/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 13.00 - 14.00 SOLID 20/12/2018 00:00:00 27/12/2018 10:55:13 181222-8 19,025,846 TM048	04/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 14.00 - 15.00 SOLID 20/12/2018 00:00:00 27/12/2018 10:52:15 181222-8 19,025,848 TM048	07/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 15.00 - 17.00 SOLID 20/12/2018 00:00:00 27/12/2018 13:46:29 181222-8 19,025,847 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 2.00 - 3.00 SOLID 19/12/2018 00:00:00 27/12/2018 10:50:45 181222-8 19,025,883 TM048	03/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 4.00 - 5.00 SOLID 19/12/2018 00:00:00 27/12/2018 11:30:00 181222-8 19,025,882 TM048	07/01/2019	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 5.00 - 6.00 SOLID 19/12/2018 00:00:00 27/12/2018 10:55:41 181222-8 19,025,887 TM048	04/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 6.00 - 8.00 SOLID 19/12/2018 00:00:00 27/12/2018 12:21:01 181222-8 19,025,886 TM048	07/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH216 NS Z 9.00 - 11.00 SOLID 19/12/2018 00:00:00 27/12/2018 14:26:05 181222-8 19,025,869 TM048	07/01/2019	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 0.00 - 0.50 SOLID 20/12/2018 00:00:00 28/12/2018 07:51:42 181222-8 19,025,894 TM048	04/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 0.50 - 1.00 SOLID 20/12/2018 00:00:00 27/12/2018 12:31:00 181222-8 19,025,892 TM048	07/01/2019	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 1.00 - 2.00 SOLID 20/12/2018 00:00:00 28/12/2018 07:04:39 181222-8 19,025,865 TM048	07/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 10.00 - 12.00 SOLID 20/12/2018 00:00:00 27/12/2018 13:01:18 181222-8 19,025,871 TM048	07/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 12.50 - 14.00 SOLID 20/12/2018 00:00:00 27/12/2018 12:32:25 181222-8 19,025,852 TM048	04/01/2019	Lucy Caroe	Soil containing ACM debris	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 14.00 - 15.00 SOLID 20/12/2018 00:00:00 27/12/2018 12:59:00 181222-8 19,025,849 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 15.00 - 16.00 SOLID 20/12/2018 00:00:00 27/12/2018 10:54:32 181222-8 19,025,870 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 16.00 - 17.00 SOLID 20/12/2018 00:00:00 27/12/2018 12:23:21 181222-8 19,025,872 TM048	07/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 2.00 - 3.00 SOLID 20/12/2018 00:00:00 28/12/2018 07:47:27 181222-8 19,025,866 TM048	04/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 3.00 - 4.00 SOLID 20/12/2018 00:00:00 27/12/2018 15:42:48 181222-8 19,025,896 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 4.00 - 5.00 SOLID 20/12/2018 00:00:00 27/12/2018 14:23:45 181222-8 19,025,890 TM048	07/01/2019	Christian Hallam	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH217 NS Z 6.00 - 8.00 SOLID 20/12/2018 00:00:00 27/12/2018 13:20:53 181222-8 19,025,891 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Asbestos Quantification - Full



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5	@ Sample deviation (see appendix)

Customer Sample Ref.	Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Depth (m) 12.50 - 14.00 Sample Type SOLID Date Sampled 20/12/2018 00:00:00 Date Received 11/02/2019 08:36:07 SDG 181222-8 Original Sample 19,025,852 Method Number TM304	None	N/A	<0.001	<0.001	<0.001



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.41
Dry Matter Content (%)	91.4

Case	
SDG	181222-8
Lab Sample Number(s)	19025841
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.17
Loss on Ignition (%)	2.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.17
ANC to pH 6 (mol/kg)	0.183
ANC to pH 4 (mol/kg)	1.81

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0383	<0.0002	0.383	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0221	<0.003	0.221	<0.03	0.5	10	30
Nickel	0.000967	<0.0004	0.00967	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00162	<0.001	0.0162	<0.01	0.06	0.7	5
Selenium	0.0292	<0.001	0.292	<0.01	0.1	0.5	7
Zinc	0.00233	<0.001	0.0233	<0.01	4	50	200
Chloride	199	<4	1990	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	76.7	<2	767	<20	1000	20000	50000
Total Dissolved Solids	601	<5	6010	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.03	<3	30.3	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.57
Conductivity (µS/cm)	796
Temperature (°C)	16.70
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.41
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.4
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025841
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.17
Loss on Ignition (%)	2.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.17
ANC to pH 6 (mol/kg)	0.183
ANC to pH 4 (mol/kg)	1.81

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.57
Conductivity (µS/cm)	796
Temperature (°C)	16.70
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025843
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.624
Loss on Ignition (%)	2.12
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.47
ANC to pH 6 (mol/kg)	0.202
ANC to pH 4 (mol/kg)	1.35

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0416	<0.0002	0.416	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000815	<0.0003	0.00815	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0194	<0.003	0.194	<0.03	0.5	10	30
Nickel	0.00104	<0.0004	0.0104	<0.004	0.4	10	40
Lead	0.000321	<0.0002	0.00321	<0.002	0.5	10	50
Antimony	0.00182	<0.001	0.0182	<0.01	0.06	0.7	5
Selenium	0.0346	<0.001	0.346	<0.01	0.1	0.5	7
Zinc	0.0032	<0.001	0.032	<0.01	4	50	200
Chloride	190	<2	1900	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	68.3	<2	683	<20	1000	20000	50000
Total Dissolved Solids	543	<5	5430	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.54
Conductivity (µS/cm)	725
Temperature (°C)	16.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025843
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.624
Loss on Ignition (%)	2.12
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.47
ANC to pH 6 (mol/kg)	0.202
ANC to pH 4 (mol/kg)	1.35

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.54
Conductivity (µS/cm)	725
Temperature (°C)	16.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025844
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	13.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.703
Loss on Ignition (%)	1.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.175
ANC to pH 4 (mol/kg)	1.12

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0584	<0.0002	0.584	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0171	<0.003	0.171	<0.03	0.5	10	30
Nickel	0.000989	<0.0004	0.00989	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00238	<0.001	0.0238	<0.01	0.06	0.7	5
Selenium	0.0271	<0.001	0.271	<0.01	0.1	0.5	7
Zinc	0.00348	<0.001	0.0348	<0.01	4	50	200
Chloride	193	<2	1930	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	75.7	<2	757	<20	1000	20000	50000
Total Dissolved Solids	634	<5	6340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	796
Temperature (°C)	18.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025844
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	13.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.703
Loss on Ignition (%)	1.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.175
ANC to pH 4 (mol/kg)	1.12

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	796
Temperature (°C)	18.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025846
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.573
Loss on Ignition (%)	0.894
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.191
ANC to pH 4 (mol/kg)	0.957

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000548	<0.0005	0.00548	<0.005	0.5	2	25
Barium	0.0532	<0.0002	0.532	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000701	<0.0003	0.00701	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0144	<0.003	0.144	<0.03	0.5	10	30
Nickel	0.000935	<0.0004	0.00935	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00237	<0.001	0.0237	<0.01	0.06	0.7	5
Selenium	0.0219	<0.001	0.219	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	199	<2	1990	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	57.4	<2	574	<20	1000	20000	50000
Total Dissolved Solids	608	<5	6080	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.55
Conductivity (µS/cm)	824
Temperature (°C)	16.10
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025846
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.573
Loss on Ignition (%)	0.894
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.191
ANC to pH 4 (mol/kg)	0.957

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.55
Conductivity (µS/cm)	824
Temperature (°C)	16.10
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.95
Dry Matter Content (%)	93.5

Case	
SDG	181222-8
Lab Sample Number(s)	19025847
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.901
Loss on Ignition (%)	1.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	9.98
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.14
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.806

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0383	<0.0002	0.383	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0245	<0.003	0.245	<0.03	0.5	10	30
Nickel	0.000765	<0.0004	0.00765	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00177	<0.001	0.0177	<0.01	0.06	0.7	5
Selenium	0.0319	<0.001	0.319	<0.01	0.1	0.5	7
Zinc	0.00213	<0.001	0.0213	<0.01	4	50	200
Chloride	152	<2	1520	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	65.1	<2	651	<20	1000	20000	50000
Total Dissolved Solids	446	<5	4460	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.57
Conductivity (µS/cm)	584
Temperature (°C)	18.10
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 14:40:13



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.95
Dry Matter Content (%)	93.5

Case	
SDG	181222-8
Lab Sample Number(s)	19025847
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.901
Loss on Ignition (%)	1.35
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	9.98
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.14
ANC to pH 6 (mol/kg)	0.101
ANC to pH 4 (mol/kg)	0.806

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.57
Conductivity (µS/cm)	584
Temperature (°C)	18.10
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025848
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.789
Loss on Ignition (%)	0.756
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.183
ANC to pH 4 (mol/kg)	1.19

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0472	<0.0002	0.472	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000846	<0.0003	0.00846	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0196	<0.003	0.196	<0.03	0.5	10	30
Nickel	0.000903	<0.0004	0.00903	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00223	<0.001	0.0223	<0.01	0.06	0.7	5
Selenium	0.0293	<0.001	0.293	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	182	<2	1820	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	51.2	<2	512	<20	1000	20000	50000
Total Dissolved Solids	502	<5	5020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.57
Conductivity (µS/cm)	701
Temperature (°C)	16.00
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025848
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.789
Loss on Ignition (%)	0.756
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.183
ANC to pH 4 (mol/kg)	1.19

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.57
Conductivity (µS/cm)	701
Temperature (°C)	16.00
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025849
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.708
Loss on Ignition (%)	3.99
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.230
ANC to pH 4 (mol/kg)	1.44

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0434	<0.0002	0.434	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000793	<0.0003	0.00793	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0157	<0.003	0.157	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00194	<0.001	0.0194	<0.01	0.06	0.7	5
Selenium	0.0208	<0.001	0.208	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	199	<2	1990	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	74.6	<2	746	<20	1000	20000	50000
Total Dissolved Solids	607	<5	6070	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	827
Temperature (°C)	16.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025849
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.708
Loss on Ignition (%)	3.99
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.230
ANC to pH 4 (mol/kg)	1.44

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	827
Temperature (°C)	16.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.0
Dry Matter Content (%)	90.1

Case	
SDG	181222-8
Lab Sample Number(s)	19025851
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	11.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.561
Loss on Ignition (%)	1.70
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.586

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000712	<0.0005	0.00712	<0.005	0.5	2	25
Barium	0.0366	<0.0002	0.366	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000879	<0.0003	0.00879	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0068	<0.003	0.068	<0.03	0.5	10	30
Nickel	0.000746	<0.0004	0.00746	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0018	<0.001	0.018	<0.01	0.06	0.7	5
Selenium	0.0146	<0.001	0.146	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	195	<2	1950	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47.3	<2	473	<20	1000	20000	50000
Total Dissolved Solids	578	<5	5780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.25	<3	32.5	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.96
Conductivity (µS/cm)	767
Temperature (°C)	16.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.1
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025851
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	11.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.561
Loss on Ignition (%)	1.70
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.144
ANC to pH 4 (mol/kg)	0.586

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.96
Conductivity (µS/cm)	767
Temperature (°C)	16.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025852
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	12.50 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.11
Loss on Ignition (%)	2.24
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.43
ANC to pH 6 (mol/kg)	0.226
ANC to pH 4 (mol/kg)	0.964

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000535	<0.0005	0.00535	<0.005	0.5	2	25
Barium	0.0497	<0.0002	0.497	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0189	<0.003	0.189	<0.03	0.5	10	30
Nickel	0.000536	<0.0004	0.00536	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0023	<0.001	0.023	<0.01	0.06	0.7	5
Selenium	0.0162	<0.001	0.162	<0.01	0.1	0.5	7
Zinc	0.00279	<0.001	0.0279	<0.01	4	50	200
Chloride	185	<2	1850	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	76.8	<2	768	<20	1000	20000	50000
Total Dissolved Solids	612	<5	6120	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	778
Temperature (°C)	18.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025852
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	12.50 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.11
Loss on Ignition (%)	2.24
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.43
ANC to pH 6 (mol/kg)	0.226
ANC to pH 4 (mol/kg)	0.964

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	778
Temperature (°C)	18.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025853
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.44
Loss on Ignition (%)	3.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.20
ANC to pH 6 (mol/kg)	0.126
ANC to pH 4 (mol/kg)	0.569

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00204	<0.0005	0.0204	<0.005	0.5	2	25
Barium	0.0093	<0.0002	0.093	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0245	<0.003	0.245	<0.03	0.5	10	30
Nickel	0.00148	<0.0004	0.0148	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00242	<0.001	0.0242	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00129	<0.001	0.0129	<0.01	4	50	200
Chloride	19.6	<2	196	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	111	<2	1110	<20	1000	20000	50000
Total Dissolved Solids	346	<5	3460	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.76	<3	97.6	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.25
Conductivity (µS/cm)	456
Temperature (°C)	18.10
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025853
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.44
Loss on Ignition (%)	3.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	21.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.20
ANC to pH 6 (mol/kg)	0.126
ANC to pH 4 (mol/kg)	0.569

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.25
Conductivity (µS/cm)	456
Temperature (°C)	18.10
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025854
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.80
Loss on Ignition (%)	4.54
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.54
ANC to pH 6 (mol/kg)	0.0609
ANC to pH 4 (mol/kg)	0.463

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00321	<0.0005	0.0321	<0.005	0.5	2	25
Barium	0.00801	<0.0002	0.0801	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0189	<0.003	0.189	<0.03	0.5	10	30
Nickel	0.000996	<0.0004	0.00996	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00124	<0.001	0.0124	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00179	<0.001	0.0179	<0.01	4	50	200
Chloride	6	<2	60	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	123	<2	1230	<20	1000	20000	50000
Total Dissolved Solids	318	<5	3180	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.5	<3	75	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.92
Conductivity (µS/cm)	437
Temperature (°C)	16.90
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025854
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.80
Loss on Ignition (%)	4.54
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.54
ANC to pH 6 (mol/kg)	0.0609
ANC to pH 4 (mol/kg)	0.463

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.92
Conductivity (µS/cm)	437
Temperature (°C)	16.90
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025856
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.98
Loss on Ignition (%)	2.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0587
ANC to pH 4 (mol/kg)	0.209

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00239	<0.0005	0.0239	<0.005	0.5	2	25
Barium	0.0283	<0.0002	0.283	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00981	<0.003	0.0981	<0.03	0.5	10	30
Nickel	0.000771	<0.0004	0.00771	<0.004	0.4	10	40
Lead	0.000244	<0.0002	0.00244	<0.002	0.5	10	50
Antimony	0.00223	<0.001	0.0223	<0.01	0.06	0.7	5
Selenium	0.00235	<0.001	0.0235	<0.01	0.1	0.5	7
Zinc	0.00249	<0.001	0.0249	<0.01	4	50	200
Chloride	27.1	<2	271	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	131	<2	1310	<20	1000	20000	50000
Total Dissolved Solids	328	<5	3280	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.21	<3	42.1	<30	500	800	1000

Leach Test Information

Date Prepared	04-Jan-2019
pH (pH Units)	8.22
Conductivity (µS/cm)	429
Temperature (°C)	18.30
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025856
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.98
Loss on Ignition (%)	2.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0587
ANC to pH 4 (mol/kg)	0.209

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	04-Jan-2019
pH (pH Units)	8.22
Conductivity (µS/cm)	429
Temperature (°C)	18.30
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025857
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.75
Loss on Ignition (%)	4.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.59
ANC to pH 6 (mol/kg)	0.0537
ANC to pH 4 (mol/kg)	0.245

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00161	<0.0005	0.0161	<0.005	0.5	2	25
Barium	0.0157	<0.0002	0.157	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0201	<0.003	0.201	<0.03	0.5	10	30
Nickel	0.00141	<0.0004	0.0141	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00196	<0.001	0.0196	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00162	<0.001	0.0162	<0.01	4	50	200
Chloride	17.5	<2	175	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	192	<2	1920	<20	1000	20000	50000
Total Dissolved Solids	469	<5	4690	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.77	<3	67.7	<30	500	800	1000

Leach Test Information

Date Prepared	04-Jan-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	608
Temperature (°C)	18.00
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.112
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025857
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.75
Loss on Ignition (%)	4.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.0
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.59
ANC to pH 6 (mol/kg)	0.0537
ANC to pH 4 (mol/kg)	0.245

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	04-Jan-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	608
Temperature (°C)	18.00
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025858
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.21
Loss on Ignition (%)	4.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.107
Mineral Oil (mg/kg)	32.8
PAH Sum of 17 (mg/kg)	20.4
pH (pH Units)	8.77
ANC to pH 6 (mol/kg)	0.0655
ANC to pH 4 (mol/kg)	0.162

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0144	<0.0005	0.144	<0.005	0.5	2	25
Barium	0.0204	<0.0002	0.204	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00137	<0.001	0.0137	<0.01	0.5	10	70
Copper	0.00728	<0.0003	0.0728	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0172	<0.003	0.172	<0.03	0.5	10	30
Nickel	0.00108	<0.0004	0.0108	<0.004	0.4	10	40
Lead	0.0014	<0.0002	0.014	<0.002	0.5	10	50
Antimony	0.00349	<0.001	0.0349	<0.01	0.06	0.7	5
Selenium	0.00641	<0.001	0.0641	<0.01	0.1	0.5	7
Zinc	0.00117	<0.001	0.0117	<0.01	4	50	200
Chloride	19.4	<2	194	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	69.5	<2	695	<20	1000	20000	50000
Total Dissolved Solids	196	<5	1960	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.27	<3	32.7	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	419
Temperature (°C)	16.00
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025858
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.21
Loss on Ignition (%)	4.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.107
Mineral Oil (mg/kg)	32.8
PAH Sum of 17 (mg/kg)	20.4
pH (pH Units)	8.77
ANC to pH 6 (mol/kg)	0.0655
ANC to pH 4 (mol/kg)	0.162

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.12
Conductivity (µS/cm)	419
Temperature (°C)	16.00
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.5
Dry Matter Content (%)	90.5

Case	
SDG	181222-8
Lab Sample Number(s)	19025859
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.568
Loss on Ignition (%)	0.929
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.92
ANC to pH 6 (mol/kg)	0.126
ANC to pH 4 (mol/kg)	0.356

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000792	<0.0005	0.00792	<0.005	0.5	2	25
Barium	0.0523	<0.0002	0.523	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000487	<0.0003	0.00487	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00858	<0.003	0.0858	<0.03	0.5	10	30
Nickel	0.000469	<0.0004	0.00469	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00207	<0.001	0.0207	<0.01	0.06	0.7	5
Selenium	0.0364	<0.001	0.364	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	158	<2	1580	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.3	<2	373	<20	1000	20000	50000
Total Dissolved Solids	433	<5	4330	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.79
Conductivity (µS/cm)	603
Temperature (°C)	16.40
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.5
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025859
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.568
Loss on Ignition (%)	0.929
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.92
ANC to pH 6 (mol/kg)	0.126
ANC to pH 4 (mol/kg)	0.356

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.79
Conductivity (µS/cm)	603
Temperature (°C)	16.40
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	8.11
Dry Matter Content (%)	92.5

Case	
SDG	181222-8
Lab Sample Number(s)	19025860
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.503
Loss on Ignition (%)	1.44
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.17
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.112
ANC to pH 4 (mol/kg)	0.462

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0442	<0.0002	0.442	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.021	<0.003	0.21	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00193	<0.001	0.0193	<0.01	0.06	0.7	5
Selenium	0.0287	<0.001	0.287	<0.01	0.1	0.5	7
Zinc	0.00129	<0.001	0.0129	<0.01	4	50	200
Chloride	163	<2	1630	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	60.3	<2	603	<20	1000	20000	50000
Total Dissolved Solids	464	<5	4640	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.63
Conductivity (µS/cm)	605
Temperature (°C)	18.10
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	8.11
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.5
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025860
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.503
Loss on Ignition (%)	1.44
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.17
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.16
ANC to pH 6 (mol/kg)	0.112
ANC to pH 4 (mol/kg)	0.462

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.63
Conductivity (µS/cm)	605
Temperature (°C)	18.10
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025862
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	9.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.365
Loss on Ignition (%)	1.28
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.07
ANC to pH 6 (mol/kg)	0.0664
ANC to pH 4 (mol/kg)	0.190

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000738	<0.0005	0.00738	<0.005	0.5	2	25
Barium	0.0244	<0.0002	0.244	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00042	<0.0003	0.0042	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00704	<0.003	0.0704	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0129	<0.001	0.129	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	219	<4	2190	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	40.7	<2	407	<20	1000	20000	50000
Total Dissolved Solids	626	<5	6260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	9.24
Conductivity (µS/cm)	833
Temperature (°C)	16.50
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025862
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	9.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.365
Loss on Ignition (%)	1.28
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.07
ANC to pH 6 (mol/kg)	0.0664
ANC to pH 4 (mol/kg)	0.190

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	9.24
Conductivity (µS/cm)	833
Temperature (°C)	16.50
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.094
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	3.95
Dry Matter Content (%)	96.2

Case	
SDG	181222-8
Lab Sample Number(s)	19025863
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.94
Loss on Ignition (%)	1.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.45
ANC to pH 6 (mol/kg)	0.107
ANC to pH 4 (mol/kg)	0.243

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0323	<0.0002	0.323	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000537	<0.0003	0.00537	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0168	<0.003	0.168	<0.03	0.5	10	30
Nickel	0.000709	<0.0004	0.00709	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00151	<0.001	0.0151	<0.01	0.06	0.7	5
Selenium	0.0263	<0.001	0.263	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	133	<2	1330	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.9	<2	549	<20	1000	20000	50000
Total Dissolved Solids	382	<5	3820	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.53
Conductivity (µS/cm)	520
Temperature (°C)	16.30
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.094
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	3.95
Dry Matter Content (%)	96.2

Case	
SDG	181222-8
Lab Sample Number(s)	19025863
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.94
Loss on Ignition (%)	1.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.45
ANC to pH 6 (mol/kg)	0.107
ANC to pH 4 (mol/kg)	0.243

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.53
Conductivity (µS/cm)	520
Temperature (°C)	16.30
Volume Leachant (Litres)	0.896

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.41
Dry Matter Content (%)	91.4

Case	
SDG	181222-8
Lab Sample Number(s)	19025864
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.249
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.02
ANC to pH 6 (mol/kg)	0.0797
ANC to pH 4 (mol/kg)	0.199

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0019	<0.0005	0.019	<0.005	0.5	2	25
Barium	0.00206	<0.0002	0.0206	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000493	<0.0004	0.00493	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00492	<0.001	0.0492	<0.01	0.06	0.7	5
Selenium	0.00322	<0.001	0.0322	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	24.2	<2	242	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.6	<2	126	<20	1000	20000	50000
Total Dissolved Solids	129	<5	1290	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.07	<0.016	0.7	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	9.43
Conductivity (µS/cm)	164
Temperature (°C)	18.30
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.41
Dry Matter Content (%)	91.4

Case	
SDG	181222-8
Lab Sample Number(s)	19025864
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.249
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.02
ANC to pH 6 (mol/kg)	0.0797
ANC to pH 4 (mol/kg)	0.199

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	9.43
Conductivity (µS/cm)	164
Temperature (°C)	18.30
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025865
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.73
Loss on Ignition (%)	3.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	94.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.0347
ANC to pH 4 (mol/kg)	0.202

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00297	<0.0005	0.0297	<0.005	0.5	2	25
Barium	0.0144	<0.0002	0.144	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0205	<0.003	0.205	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00231	<0.001	0.0231	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00149	<0.001	0.0149	<0.01	4	50	200
Chloride	3.8	<2	38	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	148	<2	1480	<20	1000	20000	50000
Total Dissolved Solids	319	<5	3190	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.3	<3	63	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.09
Conductivity (µS/cm)	426
Temperature (°C)	16.60
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025865
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.73
Loss on Ignition (%)	3.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	94.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.0347
ANC to pH 4 (mol/kg)	0.202

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.09
Conductivity (µS/cm)	426
Temperature (°C)	16.60
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025866
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.25
Loss on Ignition (%)	5.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	120
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0527
ANC to pH 4 (mol/kg)	0.324

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00427	<0.0005	0.0427	<0.005	0.5	2	25
Barium	0.0147	<0.0002	0.147	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0226	<0.003	0.226	<0.03	0.5	10	30
Nickel	0.00105	<0.0004	0.0105	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00134	<0.001	0.0134	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00275	<0.001	0.0275	<0.01	4	50	200
Chloride	11.7	<2	117	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	181	<2	1810	<20	1000	20000	50000
Total Dissolved Solids	408	<5	4080	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.43	<3	64.3	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.82
Conductivity (µS/cm)	532
Temperature (°C)	17.90
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025866
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.25
Loss on Ignition (%)	5.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	120
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.98
ANC to pH 6 (mol/kg)	0.0527
ANC to pH 4 (mol/kg)	0.324

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.82
Conductivity (µS/cm)	532
Temperature (°C)	17.90
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025868
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	6.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.09
Loss on Ignition (%)	1.51
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.0417
ANC to pH 4 (mol/kg)	0.0637

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00123	<0.0005	0.0123	<0.005	0.5	2	25
Barium	0.0073	<0.0002	0.073	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0159	<0.003	0.159	<0.03	0.5	10	30
Nickel	0.000531	<0.0004	0.00531	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00264	<0.001	0.0264	<0.01	0.06	0.7	5
Selenium	0.00107	<0.001	0.0107	<0.01	0.1	0.5	7
Zinc	0.00245	<0.001	0.0245	<0.01	4	50	200
Chloride	8.5	<2	85	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	86.2	<2	862	<20	1000	20000	50000
Total Dissolved Solids	259	<5	2590	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.03	<3	30.3	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	318
Temperature (°C)	17.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025868
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	6.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.09
Loss on Ignition (%)	1.51
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.56
ANC to pH 6 (mol/kg)	0.0417
ANC to pH 4 (mol/kg)	0.0637

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	318
Temperature (°C)	17.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.104
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025869
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	9.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.505
Loss on Ignition (%)	1.51
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.79
ANC to pH 6 (mol/kg)	0.125
ANC to pH 4 (mol/kg)	0.521

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000994	<0.0005	0.00994	<0.005	0.5	2	25
Barium	0.0134	<0.0002	0.134	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00752	<0.003	0.0752	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00149	<0.001	0.0149	<0.01	0.06	0.7	5
Selenium	0.00163	<0.001	0.0163	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	93.5	<2	935	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.1	<2	451	<20	1000	20000	50000
Total Dissolved Solids	334	<5	3340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.92
Conductivity (µS/cm)	454
Temperature (°C)	13.90
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.104	Natural Moisture Content (%)	14.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	87.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025869
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	9.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.505
Loss on Ignition (%)	1.51
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.79
ANC to pH 6 (mol/kg)	0.125
ANC to pH 4 (mol/kg)	0.521

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.92
Conductivity (µS/cm)	454
Temperature (°C)	13.90
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025870
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.606
Loss on Ignition (%)	1.83
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.48
ANC to pH 6 (mol/kg)	0.130
ANC to pH 4 (mol/kg)	1.37

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000599	<0.0005	0.00599	<0.005	0.5	2	25
Barium	0.0518	<0.0002	0.518	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00156	<0.0003	0.0156	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0203	<0.003	0.203	<0.03	0.5	10	30
Nickel	0.00109	<0.0004	0.0109	<0.004	0.4	10	40
Lead	0.000324	<0.0002	0.00324	<0.002	0.5	10	50
Antimony	0.0025	<0.001	0.025	<0.01	0.06	0.7	5
Selenium	0.0235	<0.001	0.235	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	213	<4	2130	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.1	<2	541	<20	1000	20000	50000
Total Dissolved Solids	610	<5	6100	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.08	<3	30.8	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.77
Conductivity (µS/cm)	746
Temperature (°C)	12.10
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025870
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.606
Loss on Ignition (%)	1.83
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.48
ANC to pH 6 (mol/kg)	0.130
ANC to pH 4 (mol/kg)	1.37

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.77
Conductivity (µS/cm)	746
Temperature (°C)	12.10
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025871
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.458
Loss on Ignition (%)	2.77
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.83
ANC to pH 6 (mol/kg)	0.113
ANC to pH 4 (mol/kg)	0.621

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000902	<0.0005	0.00902	<0.005	0.5	2	25
Barium	0.0293	<0.0002	0.293	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000528	<0.0003	0.00528	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0059	<0.003	0.059	<0.03	0.5	10	30
Nickel	0.000514	<0.0004	0.00514	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00334	<0.001	0.0334	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	219	<4	2190	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.9	<2	459	<20	1000	20000	50000
Total Dissolved Solids	627	<5	6270	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.52
Conductivity (µS/cm)	860
Temperature (°C)	16.30
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.105	Natural Moisture Content (%)	16.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	86.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025871
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.458
Loss on Ignition (%)	2.77
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.83
ANC to pH 6 (mol/kg)	0.113
ANC to pH 4 (mol/kg)	0.621

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.52
Conductivity (µS/cm)	860
Temperature (°C)	16.30
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025872
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.692
Loss on Ignition (%)	1.59
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.20
ANC to pH 6 (mol/kg)	0.297
ANC to pH 4 (mol/kg)	1.13

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000627	<0.0005	0.00627	<0.005	0.5	2	25
Barium	0.0474	<0.0002	0.474	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00101	<0.0003	0.0101	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.015	<0.003	0.15	<0.03	0.5	10	30
Nickel	0.000822	<0.0004	0.00822	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00198	<0.001	0.0198	<0.01	0.06	0.7	5
Selenium	0.0163	<0.001	0.163	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	194	<4	1940	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	51.9	<2	519	<20	1000	20000	50000
Total Dissolved Solids	574	<5	5740	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.19
Conductivity (µS/cm)	777
Temperature (°C)	16.60
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025872
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.692
Loss on Ignition (%)	1.59
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.20
ANC to pH 6 (mol/kg)	0.297
ANC to pH 4 (mol/kg)	1.13

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.19
Conductivity (µS/cm)	777
Temperature (°C)	16.60
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025874
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.43
Loss on Ignition (%)	4.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	33.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.70
ANC to pH 6 (mol/kg)	0.0505
ANC to pH 4 (mol/kg)	0.222

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00295	<0.0005	0.0295	<0.005	0.5	2	25
Barium	0.0144	<0.0002	0.144	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0202	<0.003	0.202	<0.03	0.5	10	30
Nickel	0.00156	<0.0004	0.0156	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00169	<0.001	0.0169	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00252	<0.001	0.0252	<0.01	4	50	200
Chloride	10.2	<2	102	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	163	<2	1630	<20	1000	20000	50000
Total Dissolved Solids	367	<5	3670	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.19	<3	81.9	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	505
Temperature (°C)	16.50
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025874
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.43
Loss on Ignition (%)	4.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	33.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.70
ANC to pH 6 (mol/kg)	0.0505
ANC to pH 4 (mol/kg)	0.222

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.83
Conductivity (µS/cm)	505
Temperature (°C)	16.50
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025875
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.616
Loss on Ignition (%)	3.21
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.65
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.81
ANC to pH 6 (mol/kg)	0.0724
ANC to pH 4 (mol/kg)	0.200

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00117	<0.0005	0.0117	<0.005	0.5	2	25
Barium	0.0117	<0.0002	0.117	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00112	<0.0003	0.0112	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0113	<0.003	0.113	<0.03	0.5	10	30
Nickel	0.00204	<0.0004	0.0204	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00172	<0.001	0.0172	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00263	<0.001	0.0263	<0.01	4	50	200
Chloride	7.2	<2	72	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	207	<2	2070	<20	1000	20000	50000
Total Dissolved Solids	430	<5	4300	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.49	<3	64.9	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.96
Conductivity (µS/cm)	578
Temperature (°C)	16.50
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025875
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.616
Loss on Ignition (%)	3.21
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.65
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.81
ANC to pH 6 (mol/kg)	0.0724
ANC to pH 4 (mol/kg)	0.200

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.96
Conductivity (µS/cm)	578
Temperature (°C)	16.50
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.124
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025876
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.00
Loss on Ignition (%)	6.29
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	45.2
PAH Sum of 17 (mg/kg)	12.4
pH (pH Units)	7.36
ANC to pH 6 (mol/kg)	0.0533
ANC to pH 4 (mol/kg)	0.425

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00277	<0.0005	0.0277	<0.005	0.5	2	25
Barium	0.021	<0.0002	0.21	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000385	<0.0003	0.00385	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0199	<0.003	0.199	<0.03	0.5	10	30
Nickel	0.00205	<0.0004	0.0205	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00163	<0.001	0.0163	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0028	<0.001	0.028	<0.01	4	50	200
Chloride	20.8	<2	208	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	282	<2	2820	<20	1000	20000	50000
Total Dissolved Solids	547	<5	5470	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.74	<3	67.4	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.07
Conductivity (µS/cm)	733
Temperature (°C)	16.80
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.124	Natural Moisture Content (%)	37.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	73.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025876
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.00
Loss on Ignition (%)	6.29
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	45.2
PAH Sum of 17 (mg/kg)	12.4
pH (pH Units)	7.36
ANC to pH 6 (mol/kg)	0.0533
ANC to pH 4 (mol/kg)	0.425

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.07
Conductivity (µS/cm)	733
Temperature (°C)	16.80
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.129
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	42.9
Dry Matter Content (%)	70.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025877
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.60
Loss on Ignition (%)	7.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	73.5
PAH Sum of 17 (mg/kg)	22.6
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0591
ANC to pH 4 (mol/kg)	0.387

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00339	<0.0005	0.0339	<0.005	0.5	2	25
Barium	0.0143	<0.0002	0.143	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0156	<0.003	0.156	<0.03	0.5	10	30
Nickel	0.00177	<0.0004	0.0177	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00101	<0.001	0.0101	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00217	<0.001	0.0217	<0.01	4	50	200
Chloride	5.6	<2	56	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	200	<2	2000	<20	1000	20000	50000
Total Dissolved Solids	426	<5	4260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.68	<3	96.8	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.05
Conductivity (µS/cm)	573
Temperature (°C)	16.50
Volume Leachant (Litres)	0.861

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.129
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	42.9
Dry Matter Content (%)	70.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025877
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.60
Loss on Ignition (%)	7.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	73.5
PAH Sum of 17 (mg/kg)	22.6
pH (pH Units)	7.74
ANC to pH 6 (mol/kg)	0.0591
ANC to pH 4 (mol/kg)	0.387

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.05
Conductivity (µS/cm)	573
Temperature (°C)	16.50
Volume Leachant (Litres)	0.861

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.129
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	42.9
Dry Matter Content (%)	70.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025878
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.41
Loss on Ignition (%)	6.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.47
PAH Sum of 17 (mg/kg)	11.7
pH (pH Units)	7.40
ANC to pH 6 (mol/kg)	0.0820
ANC to pH 4 (mol/kg)	0.445

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00323	<0.0005	0.0323	<0.005	0.5	2	25
Barium	0.0153	<0.0002	0.153	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000926	<0.0003	0.00926	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0213	<0.003	0.213	<0.03	0.5	10	30
Nickel	0.00148	<0.0004	0.0148	<0.004	0.4	10	40
Lead	0.000203	<0.0002	0.00203	<0.002	0.5	10	50
Antimony	0.00191	<0.001	0.0191	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0025	<0.001	0.025	<0.01	4	50	200
Chloride	4	<2	40	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	131	<2	1310	<20	1000	20000	50000
Total Dissolved Solids	320	<5	3200	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.14	<3	71.4	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.14
Conductivity (µS/cm)	420
Temperature (°C)	15.90
Volume Leachant (Litres)	0.861

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.129	Natural Moisture Content (%)	42.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	70.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025878
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.41
Loss on Ignition (%)	6.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.47
PAH Sum of 17 (mg/kg)	11.7
pH (pH Units)	7.40
ANC to pH 6 (mol/kg)	0.0820
ANC to pH 4 (mol/kg)	0.445

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.14
Conductivity (µS/cm)	420
Temperature (°C)	15.90
Volume Leachant (Litres)	0.861

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.6
Dry Matter Content (%)	90.4

Case	
SDG	181222-8
Lab Sample Number(s)	19025879
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.724
Loss on Ignition (%)	2.33
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.44
ANC to pH 6 (mol/kg)	0.0882
ANC to pH 4 (mol/kg)	1.79

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00179	<0.0005	0.0179	<0.005	0.5	2	25
Barium	0.0312	<0.0002	0.312	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0147	<0.003	0.147	<0.03	0.5	10	30
Nickel	0.00144	<0.0004	0.0144	<0.004	0.4	10	40
Lead	0.00174	<0.0002	0.0174	<0.002	0.5	10	50
Antimony	0.00234	<0.001	0.0234	<0.01	0.06	0.7	5
Selenium	0.00339	<0.001	0.0339	<0.01	0.1	0.5	7
Zinc	0.0188	<0.001	0.188	<0.01	4	50	200
Chloride	24.9	<2	249	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	132	<2	1320	<20	1000	20000	50000
Total Dissolved Solids	344	<5	3440	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.37	<3	43.7	<30	500	800	1000

Leach Test Information

Date Prepared	10-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	451
Temperature (°C)	18.60
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.6
Dry Matter Content (%)	90.4

Case	
SDG	181222-8
Lab Sample Number(s)	19025879
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH214
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.724
Loss on Ignition (%)	2.33
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	32.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.44
ANC to pH 6 (mol/kg)	0.0882
ANC to pH 4 (mol/kg)	1.79

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	10-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	451
Temperature (°C)	18.60
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.113
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	25.0
Dry Matter Content (%)	80.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025881
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.92
Loss on Ignition (%)	6.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.0673
Mineral Oil (mg/kg)	20.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.58
ANC to pH 6 (mol/kg)	0.0655
ANC to pH 4 (mol/kg)	0.198

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00217	<0.0005	0.0217	<0.005	0.5	2	25
Barium	0.0265	<0.0002	0.265	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0208	<0.003	0.208	<0.03	0.5	10	30
Nickel	0.00173	<0.0004	0.0173	<0.004	0.4	10	40
Lead	0.000274	<0.0002	0.00274	<0.002	0.5	10	50
Antimony	0.00385	<0.001	0.0385	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00598	<0.001	0.0598	<0.01	4	50	200
Chloride	4	<2	40	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	395	<2	3950	<20	1000	20000	50000
Total Dissolved Solids	608	<5	6080	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.77	<3	57.7	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.87
Conductivity (µS/cm)	788
Temperature (°C)	17.90
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.113	Natural Moisture Content (%)	25.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	80.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025881
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.92
Loss on Ignition (%)	6.08
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.0673
Mineral Oil (mg/kg)	20.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.58
ANC to pH 6 (mol/kg)	0.0655
ANC to pH 4 (mol/kg)	0.198

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.87
Conductivity (µS/cm)	788
Temperature (°C)	17.90
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.116
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025882
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.08
Loss on Ignition (%)	4.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	24.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.53
ANC to pH 6 (mol/kg)	0.0410
ANC to pH 4 (mol/kg)	0.103

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00255	<0.0005	0.0255	<0.005	0.5	2	25
Barium	0.00844	<0.0002	0.0844	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0331	<0.003	0.331	<0.03	0.5	10	30
Nickel	0.000921	<0.0004	0.00921	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00213	<0.001	0.0213	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00122	<0.001	0.0122	<0.01	4	50	200
Chloride	11.8	<2	118	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	179	<2	1790	<20	1000	20000	50000
Total Dissolved Solids	412	<5	4120	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.5	<3	115	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.20
Conductivity (µS/cm)	531
Temperature (°C)	18.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.116
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025882
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.08
Loss on Ignition (%)	4.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	24.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.53
ANC to pH 6 (mol/kg)	0.0410
ANC to pH 4 (mol/kg)	0.103

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.20
Conductivity (µS/cm)	531
Temperature (°C)	18.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.127
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	40.8
Dry Matter Content (%)	71.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025883
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	5.54
Loss on Ignition (%)	7.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	198
PAH Sum of 17 (mg/kg)	26.2
pH (pH Units)	7.88
ANC to pH 6 (mol/kg)	0.0724
ANC to pH 4 (mol/kg)	0.393

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00294	<0.0005	0.0294	<0.005	0.5	2	25
Barium	0.00653	<0.0002	0.0653	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0315	<0.003	0.315	<0.03	0.5	10	30
Nickel	0.00111	<0.0004	0.0111	<0.004	0.4	10	40
Lead	0.000257	<0.0002	0.00257	<0.002	0.5	10	50
Antimony	0.00229	<0.001	0.0229	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	15.9	<2	159	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	90.4	<2	904	<20	1000	20000	50000
Total Dissolved Solids	314	<5	3140	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.3	<3	143	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	436
Temperature (°C)	16.30
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 14:40:13



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.127	Natural Moisture Content (%)	40.8
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	71.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025883
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	5.54
Loss on Ignition (%)	7.50
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	198
PAH Sum of 17 (mg/kg)	26.2
pH (pH Units)	7.88
ANC to pH 6 (mol/kg)	0.0724
ANC to pH 4 (mol/kg)	0.393

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	436
Temperature (°C)	16.30
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025884
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.17
Loss on Ignition (%)	5.53
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.025
Mineral Oil (mg/kg)	75.1
PAH Sum of 17 (mg/kg)	20.5
pH (pH Units)	7.35
ANC to pH 6 (mol/kg)	0.0612
ANC to pH 4 (mol/kg)	0.329

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00165	<0.0005	0.0165	<0.005	0.5	2	25
Barium	0.0451	<0.0002	0.451	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00372	<0.0003	0.0372	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0177	<0.003	0.177	<0.03	0.5	10	30
Nickel	0.00486	<0.0004	0.0486	<0.004	0.4	10	40
Lead	0.000738	<0.0002	0.00738	<0.002	0.5	10	50
Antimony	0.00656	<0.001	0.0656	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.136	<0.001	1.36	<0.01	4	50	200
Chloride	27.5	<2	275	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	433	<2	4330	<20	1000	20000	50000
Total Dissolved Solids	673	<5	6730	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.51	<3	65.1	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.88
Conductivity (µS/cm)	921
Temperature (°C)	16.00
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025884
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.17
Loss on Ignition (%)	5.53
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	0.025
Mineral Oil (mg/kg)	75.1
PAH Sum of 17 (mg/kg)	20.5
pH (pH Units)	7.35
ANC to pH 6 (mol/kg)	0.0612
ANC to pH 4 (mol/kg)	0.329

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.88
Conductivity (µS/cm)	921
Temperature (°C)	16.00
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025886
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	6.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.84
Loss on Ignition (%)	1.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.76
ANC to pH 6 (mol/kg)	0.0870
ANC to pH 4 (mol/kg)	0.232

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00102	<0.0005	0.0102	<0.005	0.5	2	25
Barium	0.0152	<0.0002	0.152	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000891	<0.0003	0.00891	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0199	<0.003	0.199	<0.03	0.5	10	30
Nickel	0.00141	<0.0004	0.0141	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00313	<0.001	0.0313	<0.01	0.06	0.7	5
Selenium	0.00129	<0.001	0.0129	<0.01	0.1	0.5	7
Zinc	0.00125	<0.001	0.0125	<0.01	4	50	200
Chloride	15.6	<2	156	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	145	<2	1450	<20	1000	20000	50000
Total Dissolved Solids	354	<5	3540	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.01	<3	70.1	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	476
Temperature (°C)	16.70
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025886
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	6.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.84
Loss on Ignition (%)	1.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.76
ANC to pH 6 (mol/kg)	0.0870
ANC to pH 4 (mol/kg)	0.232

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	476
Temperature (°C)	16.70
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025887
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.87
Loss on Ignition (%)	5.32
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0566
ANC to pH 4 (mol/kg)	0.126

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00344	<0.0005	0.0344	<0.005	0.5	2	25
Barium	0.00443	<0.0002	0.0443	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000704	<0.0003	0.00704	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.035	<0.003	0.35	<0.03	0.5	10	30
Nickel	0.00117	<0.0004	0.0117	<0.004	0.4	10	40
Lead	0.000297	<0.0002	0.00297	<0.002	0.5	10	50
Antimony	0.0031	<0.001	0.031	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	19.5	<2	195	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	50.4	<2	504	<20	1000	20000	50000
Total Dissolved Solids	266	<5	2660	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.8	<3	138	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	347
Temperature (°C)	16.90
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025887
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.87
Loss on Ignition (%)	5.32
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0566
ANC to pH 4 (mol/kg)	0.126

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	347
Temperature (°C)	16.90
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025888
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.98
Loss on Ignition (%)	6.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.41
ANC to pH 6 (mol/kg)	0.0671
ANC to pH 4 (mol/kg)	0.414

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00339	<0.0005	0.0339	<0.005	0.5	2	25
Barium	0.0124	<0.0002	0.124	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0269	<0.003	0.269	<0.03	0.5	10	30
Nickel	0.0011	<0.0004	0.011	<0.004	0.4	10	40
Lead	0.00035	<0.0002	0.0035	<0.002	0.5	10	50
Antimony	0.00157	<0.001	0.0157	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00201	<0.001	0.0201	<0.01	4	50	200
Chloride	24.7	<2	247	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	123	<2	1230	<20	1000	20000	50000
Total Dissolved Solids	350	<5	3500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.12	<3	81.2	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.05
Conductivity (µS/cm)	480
Temperature (°C)	16.40
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.122
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025888
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH216
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.98
Loss on Ignition (%)	6.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.41
ANC to pH 6 (mol/kg)	0.0671
ANC to pH 4 (mol/kg)	0.414

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.05
Conductivity (µS/cm)	480
Temperature (°C)	16.40
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025890
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.02
Loss on Ignition (%)	2.80
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	184
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.68
ANC to pH 6 (mol/kg)	0.0972
ANC to pH 4 (mol/kg)	0.456

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00285	<0.0005	0.0285	<0.005	0.5	2	25
Barium	0.00837	<0.0002	0.0837	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0161	<0.003	0.161	<0.03	0.5	10	30
Nickel	0.00116	<0.0004	0.0116	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00147	<0.001	0.0147	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	9.3	<2	93	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	150	<2	1500	<20	1000	20000	50000
Total Dissolved Solids	339	<5	3390	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.49	<3	54.9	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.70
Conductivity (µS/cm)	487
Temperature (°C)	15.10
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.111	Natural Moisture Content (%)	23.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025890
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.02
Loss on Ignition (%)	2.80
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	184
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.68
ANC to pH 6 (mol/kg)	0.0972
ANC to pH 4 (mol/kg)	0.456

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.70
Conductivity (µS/cm)	487
Temperature (°C)	15.10
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025891
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	6.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.588
Loss on Ignition (%)	2.10
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.0744
ANC to pH 4 (mol/kg)	0.286

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00125	<0.0005	0.0125	<0.005	0.5	2	25
Barium	0.00633	<0.0002	0.0633	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000416	<0.0003	0.00416	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0104	<0.003	0.104	<0.03	0.5	10	30
Nickel	0.000666	<0.0004	0.00666	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00224	<0.001	0.0224	<0.01	0.06	0.7	5
Selenium	0.00116	<0.001	0.0116	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	14	<2	140	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	81.2	<2	812	<20	1000	20000	50000
Total Dissolved Solids	251	<5	2510	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.06	<3	30.6	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.17
Conductivity (µS/cm)	340
Temperature (°C)	16.70
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025891
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	6.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.588
Loss on Ignition (%)	2.10
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.37
ANC to pH 6 (mol/kg)	0.0744
ANC to pH 4 (mol/kg)	0.286

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.17
Conductivity (µS/cm)	340
Temperature (°C)	16.70
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025892
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.97
Loss on Ignition (%)	4.99
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	213
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.37
ANC to pH 6 (mol/kg)	0.0350
ANC to pH 4 (mol/kg)	0.232

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00316	<0.0005	0.0316	<0.005	0.5	2	25
Barium	0.0121	<0.0002	0.121	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0221	<0.003	0.221	<0.03	0.5	10	30
Nickel	0.000903	<0.0004	0.00903	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00284	<0.001	0.0284	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00101	<0.001	0.0101	<0.01	4	50	200
Chloride	5.7	<2	57	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	179	<2	1790	<20	1000	20000	50000
Total Dissolved Solids	358	<5	3580	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.07	<3	60.7	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.84
Conductivity (µS/cm)	473
Temperature (°C)	17.90
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.118
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	31.6
Dry Matter Content (%)	76.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025892
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.97
Loss on Ignition (%)	4.99
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	213
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.37
ANC to pH 6 (mol/kg)	0.0350
ANC to pH 4 (mol/kg)	0.232

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	7.84
Conductivity (µS/cm)	473
Temperature (°C)	17.90
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025894
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.43
Loss on Ignition (%)	3.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	375
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	12.50
ANC to pH 6 (mol/kg)	0.111
ANC to pH 4 (mol/kg)	0.349

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00228	<0.0005	0.0228	<0.005	0.5	2	25
Barium	0.136	<0.0002	1.36	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.01	<0.001	0.1	<0.01	0.5	10	70
Copper	0.0409	<0.0003	0.409	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0242	<0.003	0.242	<0.03	0.5	10	30
Nickel	0.0257	<0.0004	0.257	<0.004	0.4	10	40
Lead	0.0164	<0.0002	0.164	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00313	<0.001	0.0313	<0.01	0.1	0.5	7
Zinc	0.00641	<0.001	0.0641	<0.01	4	50	200
Chloride	60.7	<2	607	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	22	<2	220	<20	1000	20000	50000
Total Dissolved Solids	2870	<10	28700	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.7	<3	107	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	12.35
Conductivity (µS/cm)	3490
Temperature (°C)	15.70
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025894
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.43
Loss on Ignition (%)	3.36
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	375
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	12.50
ANC to pH 6 (mol/kg)	0.111
ANC to pH 4 (mol/kg)	0.349

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	12.35
Conductivity (µS/cm)	3490
Temperature (°C)	15.70
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025896
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.89
Loss on Ignition (%)	4.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	79.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.57
ANC to pH 6 (mol/kg)	0.0472
ANC to pH 4 (mol/kg)	0.318

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00365	<0.0005	0.0365	<0.005	0.5	2	25
Barium	0.0111	<0.0002	0.111	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0201	<0.003	0.201	<0.03	0.5	10	30
Nickel	0.00146	<0.0004	0.0146	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00121	<0.001	0.0121	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00336	<0.001	0.0336	<0.01	4	50	200
Chloride	12.8	<2	128	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	159	<2	1590	<20	1000	20000	50000
Total Dissolved Solids	374	<5	3740	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.79	<3	67.9	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	499
Temperature (°C)	16.60
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025896
Sampled Date	20-Dec-2018
Customer Sample Ref.	BH217
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.89
Loss on Ignition (%)	4.64
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	79.3
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.57
ANC to pH 6 (mol/kg)	0.0472
ANC to pH 4 (mol/kg)	0.318

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.30
Conductivity (µS/cm)	499
Temperature (°C)	16.60
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 14:40:13



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	181222-8
Lab Sample Number(s)	19025897
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.45
Loss on Ignition (%)	4.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.04
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0397
ANC to pH 4 (mol/kg)	0.175

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00332	<0.0005	0.0332	<0.005	0.5	2	25
Barium	0.00579	<0.0002	0.0579	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0239	<0.003	0.239	<0.03	0.5	10	30
Nickel	0.0012	<0.0004	0.012	<0.004	0.4	10	40
Lead	0.000716	<0.0002	0.00716	<0.002	0.5	10	50
Antimony	0.00171	<0.001	0.0171	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	9	<2	90	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	53.6	<2	536	<20	1000	20000	50000
Total Dissolved Solids	220	<5	2200	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.8	<3	98	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.20
Conductivity (µS/cm)	302
Temperature (°C)	16.70
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 14:40:13



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75.0
Particle Size <4mm	>95%		

Case	
SDG	181222-8
Lab Sample Number(s)	19025897
Sampled Date	19-Dec-2018
Customer Sample Ref.	BH215
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.45
Loss on Ignition (%)	4.03
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.04
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.33
ANC to pH 6 (mol/kg)	0.0397
ANC to pH 4 (mol/kg)	0.175

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.20
Conductivity (µS/cm)	302
Temperature (°C)	16.70
Volume Leachant (Litres)	0.870

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 Mcerts Certification does not apply to leachates
 05/04/2019 14:40:13



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM304	HSE Contract research Report no 83/1996	Asbestos Quantification in Soil: Fibres identified by morphology only
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19025859	19025860	19025862	19025863	19025864	19025874	19025875	19025876	19025877	19025878
	BH214	BH214	BH214	BH214	BH214	BH214	BH214	BH214	BH214	BH214
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	13.00 - 14.00	14.00 - 15.00	9.00 - 11.00	16.00 - 17.00	8.00 - 9.00	4.00 - 5.00	5.00 - 6.00	3.00 - 4.00	2.00 - 3.00	1.00 - 2.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	08-Jan-2019
Anions by Kone (w)	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
Asbestos ID in Solid Samples	04-Jan-2019	07-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	03-Jan-2019
CEN 10:1 Leachate (1 Stage)	02-Jan-2019	04-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019	02-Jan-2019	03-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
CEN Readings	05-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
Coronene	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Dissolved Metals by ICP-MS	07-Jan-2019	09-Jan-2019	08-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
Dissolved Organic/Inorganic Carbon	08-Jan-2019	09-Jan-2019	07-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	10-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	08-Jan-2019	10-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	10-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	08-Jan-2019	10-Jan-2019
Fluoride	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
GRO by GC-FID (S)	12-Jan-2019	14-Jan-2019	10-Jan-2019	14-Jan-2019	14-Jan-2019	12-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019
Hexavalent Chromium (s)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Loss on Ignition in soils	08-Jan-2019	14-Jan-2019	08-Jan-2019	08-Jan-2019	14-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	14-Jan-2019
Mercury Dissolved	09-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Metals in solid samples by OES	09-Jan-2019	03-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019
Mineral Oil	09-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	08-Jan-2019
PAH 16 & 17 Calc	11-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019
PAH by GCMS	10-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019
PCBs by GCMS	09-Jan-2019	09-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	04-Jan-2019	09-Jan-2019
pH	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	15-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
Phenols by HPLC (W)	12-Jan-2019	11-Jan-2019	10-Jan-2019	12-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019	12-Jan-2019	12-Jan-2019
Sample description	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018
Total Dissolved Solids	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Total Organic Carbon	04-Jan-2019	08-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019
TPH CWG GC (S)	12-Jan-2019	14-Jan-2019	10-Jan-2019	14-Jan-2019	14-Jan-2019	12-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019
VOC MS (S)	09-Jan-2019	09-Jan-2019	09-Jan-2019	14-Jan-2019	11-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19025879	19085823	19025841	19025843	19025844	19025853	19025854	19025856	19025857	19025858
	BH214	BH214	BH215	BH215	BH215	BH215	BH215	BH215	BH215	BH215
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
Depth Type	0.00 - 1.00	0.00 - 0.50	16.00 - 17.00	15.00 - 16.00	13.00 - 15.00	3.00 - 4.00	1.00 - 2.00	0.50 - 1.00	4.00 - 5.00	0.00 - 0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	16-Jan-2019		04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019
Anions by Kone (w)	12-Jan-2019		08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Asbestos ID in Solid Samples	10-Jan-2019		04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019
CEN 10:1 Leachate (1 Stage)	10-Jan-2019		02-Jan-2019	02-Jan-2019	03-Jan-2019	04-Jan-2019	02-Jan-2019	04-Jan-2019	04-Jan-2019	02-Jan-2019
CEN Readings	12-Jan-2019		05-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019
Coronene	11-Jan-2019		08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	09-Jan-2019
Dissolved Metals by ICP-MS	16-Jan-2019		07-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	10-Jan-2019	09-Jan-2019	07-Jan-2019
Dissolved Organic/Inorganic Carbon	15-Jan-2019		08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	07-Jan-2019
EPH CWG (Aliphatic) GC (S)	14-Jan-2019		10-Jan-2019	08-Jan-2019	11-Jan-2019	11-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019
EPH CWG (Aromatic) GC (S)	14-Jan-2019		10-Jan-2019	08-Jan-2019	11-Jan-2019	11-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019
Fluoride	14-Jan-2019		07-Jan-2019	07-Jan-2019	08-Jan-2019	09-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
GRO by GC-FID (S)	16-Jan-2019	17-Jan-2019	14-Jan-2019	12-Jan-2019	12-Jan-2019	10-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019	14-Jan-2019
Hexavalent Chromium (s)	10-Jan-2019		09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019
Loss on Ignition in soils	14-Jan-2019		09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	14-Jan-2019	09-Jan-2019	14-Jan-2019
Mercury Dissolved	15-Jan-2019		09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Metals in solid samples by OES	11-Jan-2019		09-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019	09-Jan-2019	04-Jan-2019	08-Jan-2019	07-Jan-2019
Mineral Oil	11-Jan-2019		08-Jan-2019	08-Jan-2019	10-Jan-2019	07-Jan-2019	10-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019
PAH 16 & 17 Calc	15-Jan-2019		10-Jan-2019	09-Jan-2019	10-Jan-2019	08-Jan-2019	09-Jan-2019	11-Jan-2019	11-Jan-2019	09-Jan-2019
PAH by GCMS	10-Jan-2019		10-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019
PCBs by GCMS	14-Jan-2019		07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	09-Jan-2019	04-Jan-2019	08-Jan-2019	09-Jan-2019
pH	10-Jan-2019		04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
Phenols by HPLC (S)	17-Jan-2019		14-Jan-2019	15-Jan-2019	14-Jan-2019	15-Jan-2019	15-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019
Phenols by HPLC (W)	17-Jan-2019		11-Jan-2019	12-Jan-2019	10-Jan-2019	11-Jan-2019	12-Jan-2019	10-Jan-2019	10-Jan-2019	12-Jan-2019
Sample description	09-Jan-2019	14-Jan-2019	27-Dec-2018	27-Dec-2018	27-Dec-2018	28-Dec-2018	27-Dec-2018	27-Dec-2018	28-Dec-2018	27-Dec-2018
Total Dissolved Solids	15-Jan-2019		07-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
Total Organic Carbon	11-Jan-2019		08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
TPH CWG GC (S)	16-Jan-2019		14-Jan-2019	12-Jan-2019	12-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019	14-Jan-2019
VOC MS (S)	16-Jan-2019	16-Jan-2019	11-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	11-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s) Customer Sample Ref.	19025868	19025897	19025846	19025847	19025848	19025851	19025869	19025881	19025882	19025883
	BH215	BH215	BH216	BH216	BH216	BH216	BH216	BH216	BH216	BH216
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	6.00 - 8.00	2.00 - 3.00	13.00 - 14.00	15.00 - 17.00	14.00 - 15.00	11.00 - 13.00	9.00 - 11.00	0.00 - 0.50	4.00 - 5.00	2.00 - 3.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	08-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
Anions by Kone (w)	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Asbestos ID in Solid Samples	07-Jan-2019	03-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	03-Jan-2019
CEN 10:1 Leachate (1 Stage)	03-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
CEN Readings	08-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	04-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019
Coronene	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019
Dissolved Metals by ICP-MS	09-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	07-Jan-2019
Dissolved Organic/Inorganic Carbon	09-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	07-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	10-Jan-2019	08-Jan-2019	11-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	10-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	10-Jan-2019	08-Jan-2019	11-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	10-Jan-2019
Fluoride	09-Jan-2019	05-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
GRO by GC-FID (S)	11-Jan-2019	10-Jan-2019	12-Jan-2019	12-Jan-2019	14-Jan-2019	14-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019	12-Jan-2019
Hexavalent Chromium (s)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Loss on Ignition in soils	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	14-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019
Mercury Dissolved	10-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Metals in solid samples by OES	08-Jan-2019	08-Jan-2019	04-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019	08-Jan-2019	09-Jan-2019	04-Jan-2019
Mineral Oil	09-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019
PAH 16 & 17 Calc	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019
PAH by GCMS	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019
PCBs by GCMS	09-Jan-2019	09-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	04-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019
pH	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
Phenols by HPLC (S)	15-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	15-Jan-2019	15-Jan-2019	14-Jan-2019
Phenols by HPLC (W)	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	11-Jan-2019
Sample description	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018
Total Dissolved Solids	09-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
Total Organic Carbon	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019
TPH CWG GC (S)	11-Jan-2019	10-Jan-2019	12-Jan-2019	12-Jan-2019	14-Jan-2019	14-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019	12-Jan-2019
VOC MS (S)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	11-Jan-2019	11-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	11-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19025884	19025886	19025887	19025888	19025849	19025852	19025865	19025866	19025870	19025871
	BH216	BH216	BH216	BH216	BH217	BH217	BH217	BH217	BH217	BH217
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	0.50 - 1.00	6.00 - 8.00	5.00 - 6.00	1.00 - 2.00	14.00 - 15.00	12.50 - 14.00	1.00 - 2.00	2.00 - 3.00	15.00 - 16.00	10.00 - 12.00
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
ANC at pH4 and ANC at pH 6	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019
Anions by Kone (w)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019
Asbestos ID in Solid Samples	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
Asbestos Quantification - Full						14-Feb-2019				
CEN 10:1 Leachate (1 Stage)	03-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	02-Jan-2019	03-Jan-2019	02-Jan-2019	03-Jan-2019
CEN Readings	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019	05-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019
Coronene	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019
Dissolved Metals by ICP-MS	08-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	10-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019
Dissolved Organic/Inorganic Carbon	08-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	07-Jan-2019
EPH CWG (Aliphatic) GC (S)	09-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019
EPH CWG (Aromatic) GC (S)	09-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019
Fluoride	07-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019
GRO by GC-FID (S)	10-Jan-2019	11-Jan-2019	11-Jan-2019	12-Jan-2019	14-Jan-2019	12-Jan-2019	12-Jan-2019	15-Jan-2019	12-Jan-2019	12-Jan-2019
Hexavalent Chromium (s)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Loss on Ignition in soils	09-Jan-2019	08-Jan-2019	08-Jan-2019	14-Jan-2019	09-Jan-2019	14-Jan-2019	08-Jan-2019	09-Jan-2019	31-Dec-2018	08-Jan-2019
Mercury Dissolved	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019
Metals in solid samples by OES	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	03-Jan-2019	08-Jan-2019
Mineral Oil	10-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
PAH 16 & 17 Calc	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
PAH by GCMS	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
PCBs by GCMS	07-Jan-2019	08-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
pH	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	15-Jan-2019
Phenols by HPLC (W)	11-Jan-2019	12-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019
Sample description	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018	27-Dec-2018
Total Dissolved Solids	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019
Total Organic Carbon	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	11-Jan-2019	07-Jan-2019
TPH CWG GC (S)	10-Jan-2019	11-Jan-2019	11-Jan-2019	12-Jan-2019	14-Jan-2019	12-Jan-2019	12-Jan-2019	15-Jan-2019	12-Jan-2019	12-Jan-2019
VOC MS (S)	09-Jan-2019	09-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019	09-Jan-2019	11-Jan-2019	14-Jan-2019	09-Jan-2019	10-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)
Customer Sample Ref.
AGS Ref.
Depth
Type

19025872	19025890	19025891	19025892	19025894	19025896
BH217	BH217	BH217	BH217	BH217	BH217
16.00 - 17.00	4.00 - 5.00	6.00 - 8.00	0.50 - 1.00	0.00 - 0.50	3.00 - 4.00
SOLID	SOLID	SOLID	SOLID	SOLID	SOLID

ANC at pH4 and ANC at pH 6	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019
Anions by Kone (w)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019
Asbestos ID in Solid Samples	07-Jan-2019	07-Jan-2019		07-Jan-2019	04-Jan-2019	07-Jan-2019
CEN 10:1 Leachate (1 Stage)	02-Jan-2019	02-Jan-2019	02-Jan-2019	04-Jan-2019	03-Jan-2019	02-Jan-2019
CEN Readings	05-Jan-2019	04-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019
Coronene	08-Jan-2019	09-Jan-2019	07-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019
Dissolved Metals by ICP-MS	08-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	07-Jan-2019
Dissolved Organic/Inorganic Carbon	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	07-Jan-2019
EPH CWG (Aliphatic) GC (S)	08-Jan-2019	10-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
EPH CWG (Aromatic) GC (S)	08-Jan-2019	10-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Fluoride	07-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019
GRO by GC-FID (S)	14-Jan-2019	14-Jan-2019	14-Jan-2019	11-Jan-2019	12-Jan-2019	12-Jan-2019
Hexavalent Chromium (s)	09-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019
Loss on Ignition in soils	08-Jan-2019	09-Jan-2019	08-Jan-2019	02-Jan-2019	08-Jan-2019	08-Jan-2019
Mercury Dissolved	10-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019
Metals in solid samples by OES	04-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019
Mineral Oil	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019
PAH 16 & 17 Calc	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	11-Jan-2019	11-Jan-2019
PAH by GCMS	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019
PCBs by GCMS	07-Jan-2019	07-Jan-2019	08-Jan-2019	04-Jan-2019	09-Jan-2019	08-Jan-2019
pH	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	14-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	15-Jan-2019	15-Jan-2019
Phenols by HPLC (W)	11-Jan-2019	10-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019
Sample description	27-Dec-2018	27-Dec-2018	28-Dec-2018	27-Dec-2018	27-Dec-2018	28-Dec-2018
Total Dissolved Solids	07-Jan-2019	04-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
Total Organic Carbon	07-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	04-Jan-2019	08-Jan-2019
TPH CWG GC (S)	14-Jan-2019	14-Jan-2019	14-Jan-2019	11-Jan-2019	12-Jan-2019	12-Jan-2019
VOC MS (S)	09-Jan-2019	09-Jan-2019	11-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

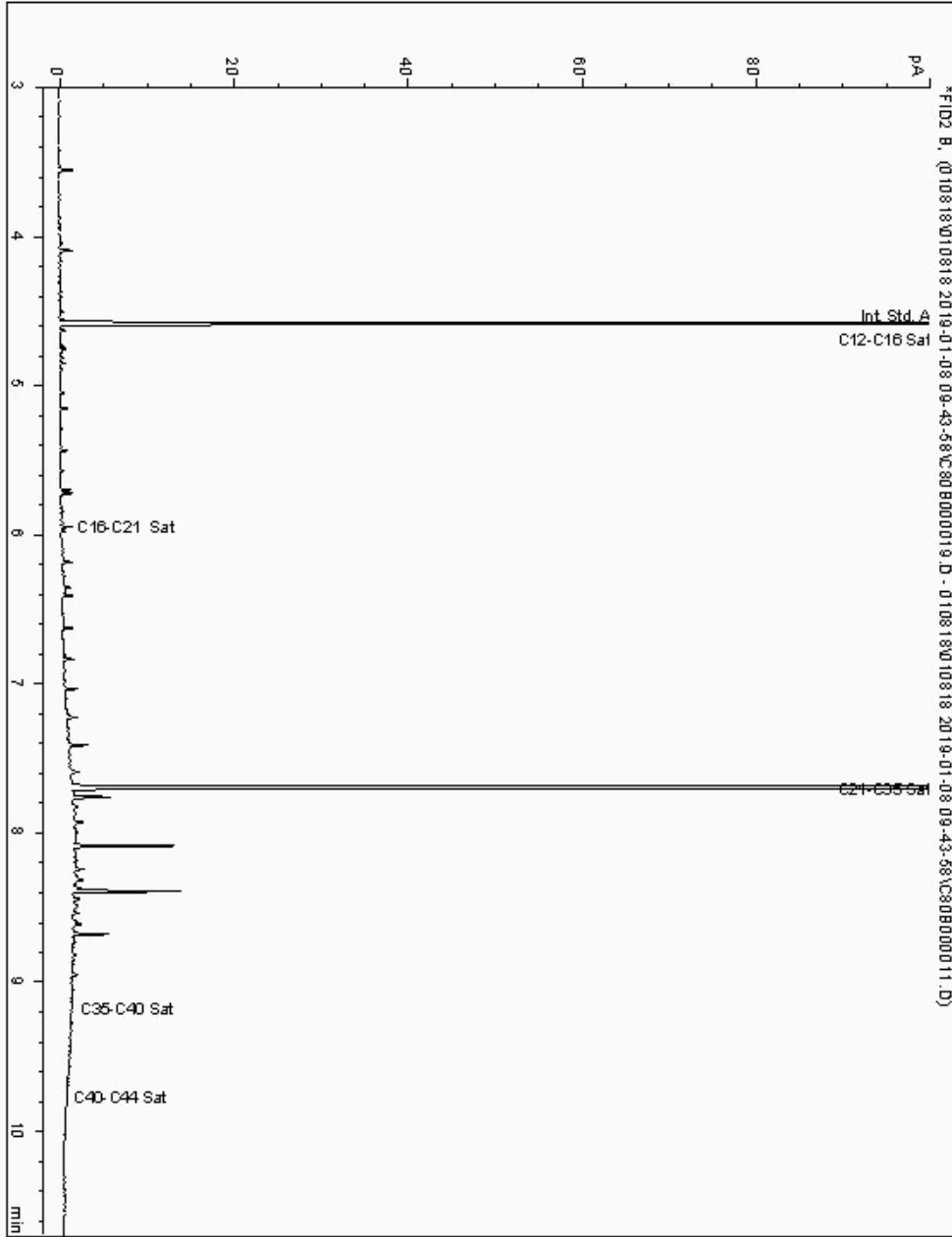
Analysis: EPH CWG (Aliphatic) GC (S)
19031518

Sample No :
Sample ID : BH216

19,031,518Depth :0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881885-
Date Acquired : 08/01/19 14:42:08
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

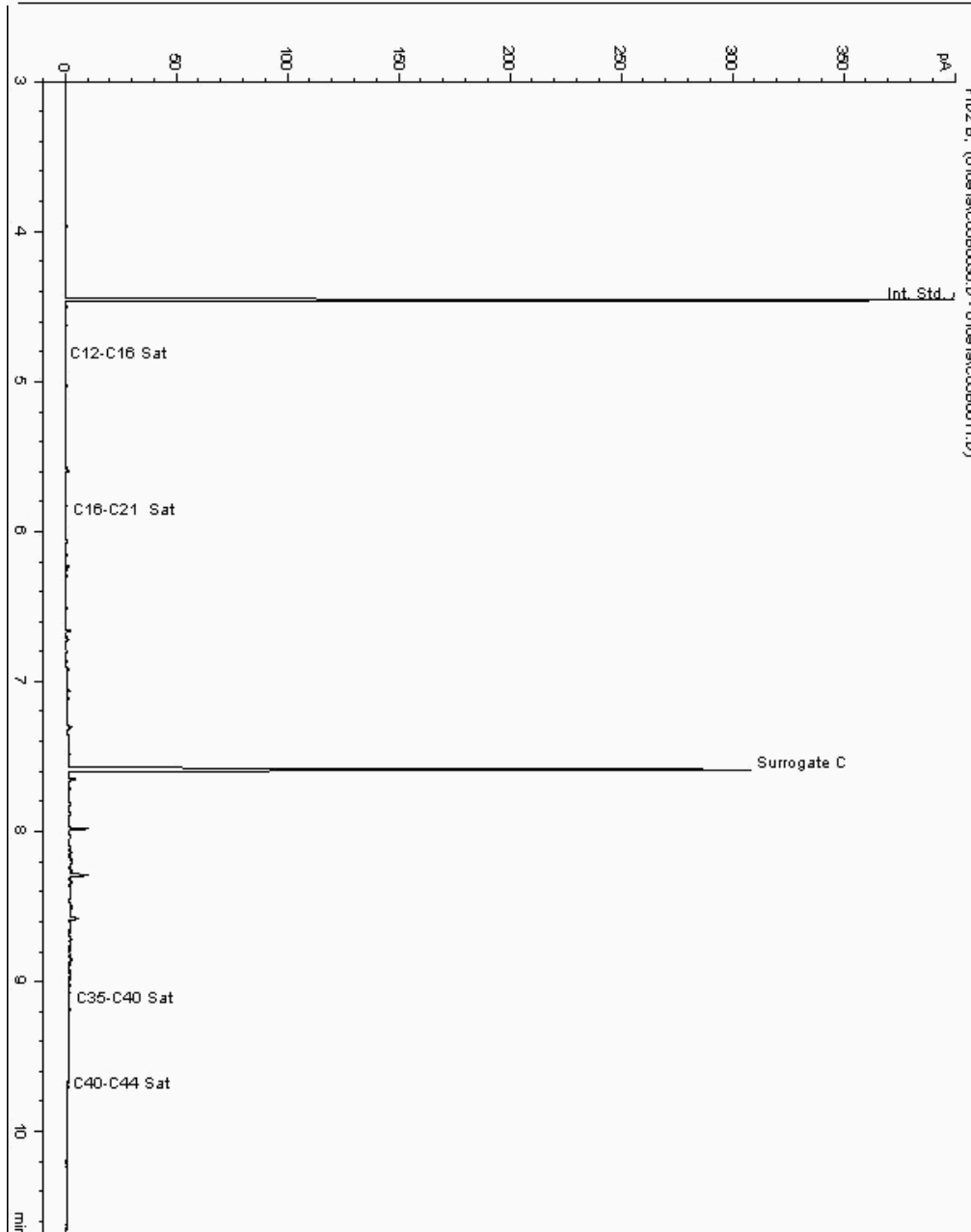
Analysis: EPH CWG (Aliphatic) GC (S)
19031590

Sample No :
Sample ID : BH214

19,031,590Depth :5.00 - 6.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881719-
Date Acquired : 09/01/2019 21:09:42 PM
Units : ppb
Dilution: BH214[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

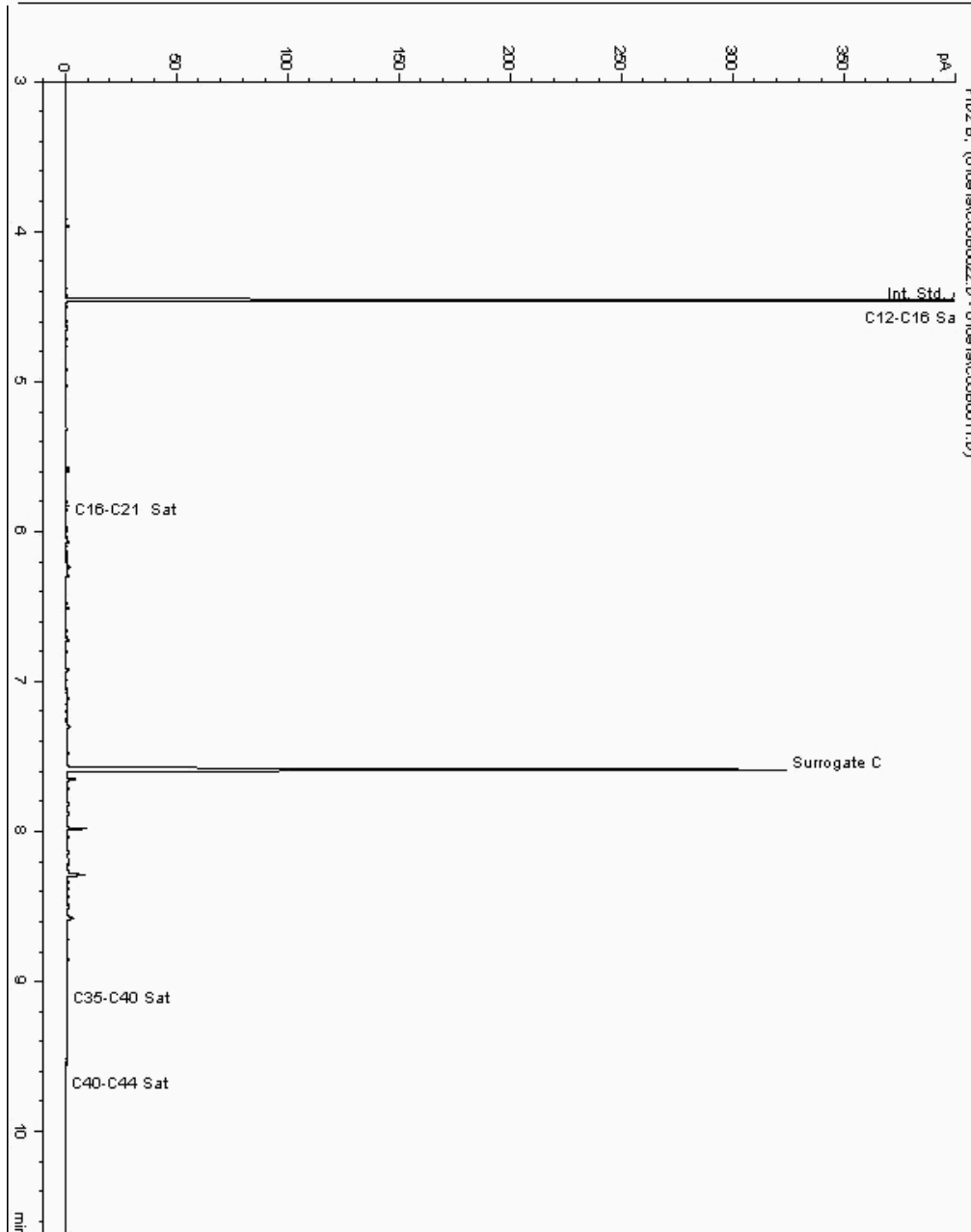
Analysis: EPH CWG (Aliphatic) GC (S)
19031675

Sample No :
Sample ID : BH214

19,031,675 Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881744-
Date Acquired : 09/01/2019 18:44:14 PM
Units : ppb
Dilution: BH214[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

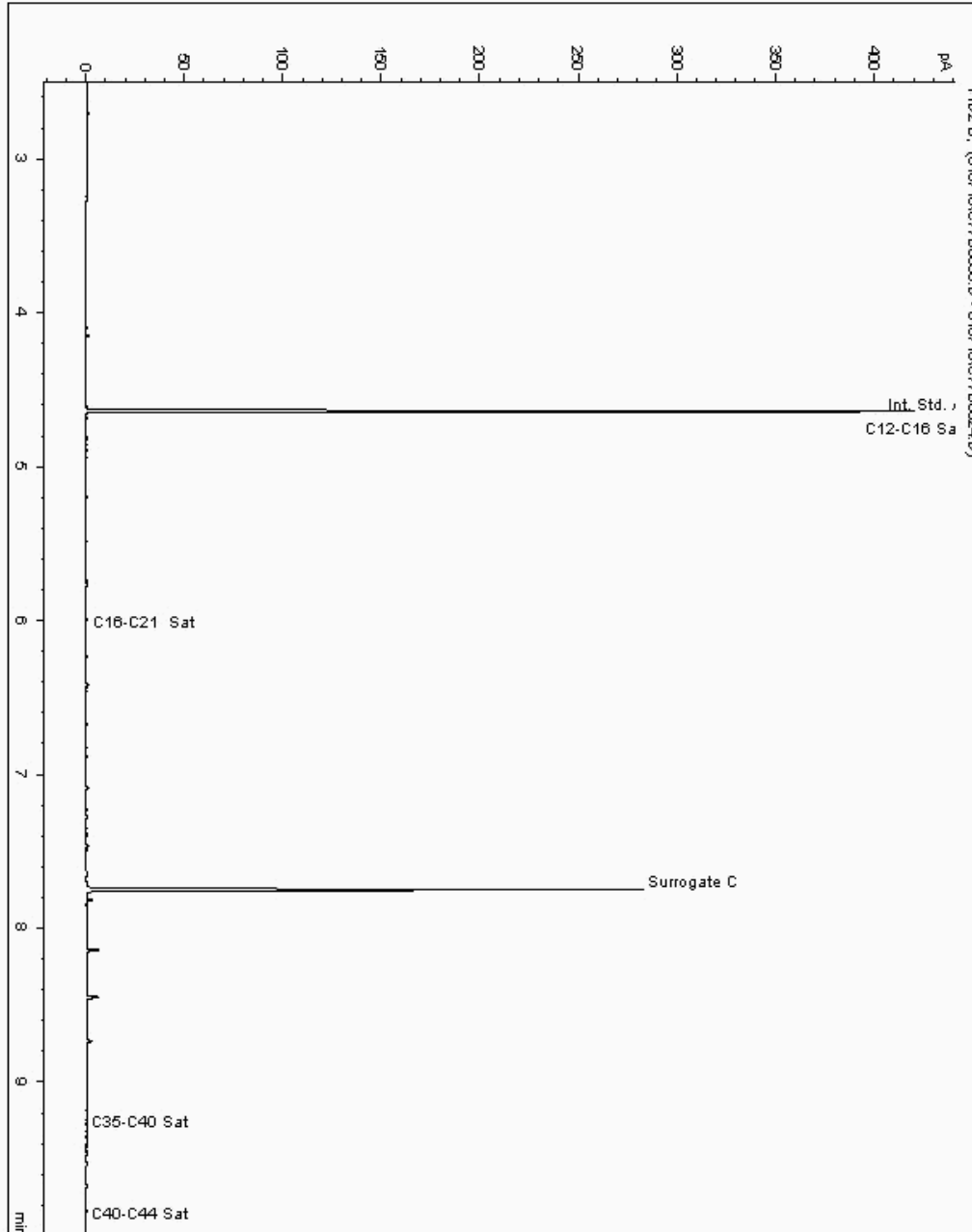
Analysis: EPH CWG (Aliphatic) GC (S)
19031828

Sample No :
Sample ID : BH215

19,031,828 Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881235-
Date Acquired : 1/7/2019 10:20:06 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

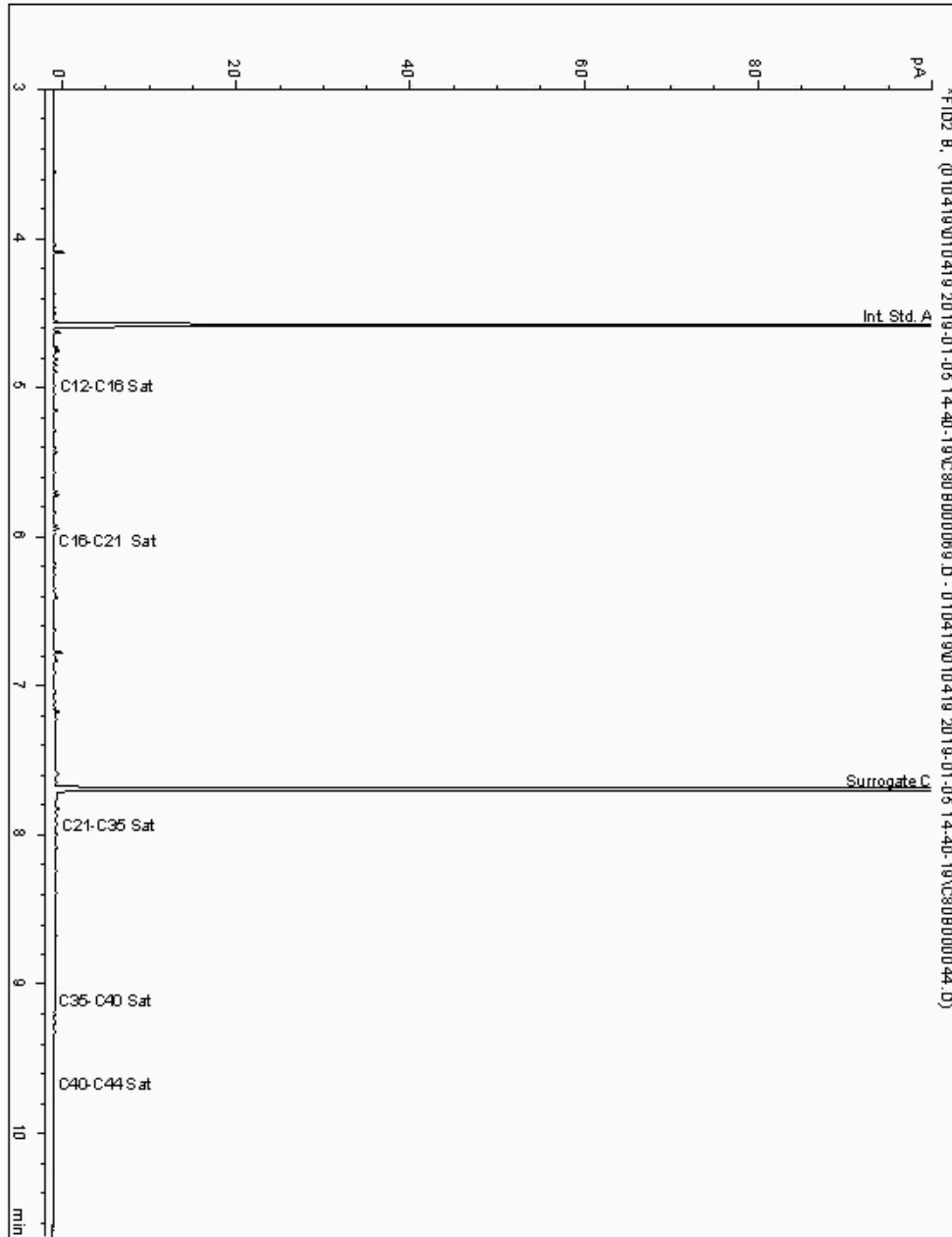
Analysis: EPH CWG (Aliphatic) GC (S)
19031890

Sample No :
Sample ID : BH217

19,031,890 Depth : 10.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881583-
Date Acquired : 05/01/19 23:17:16
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

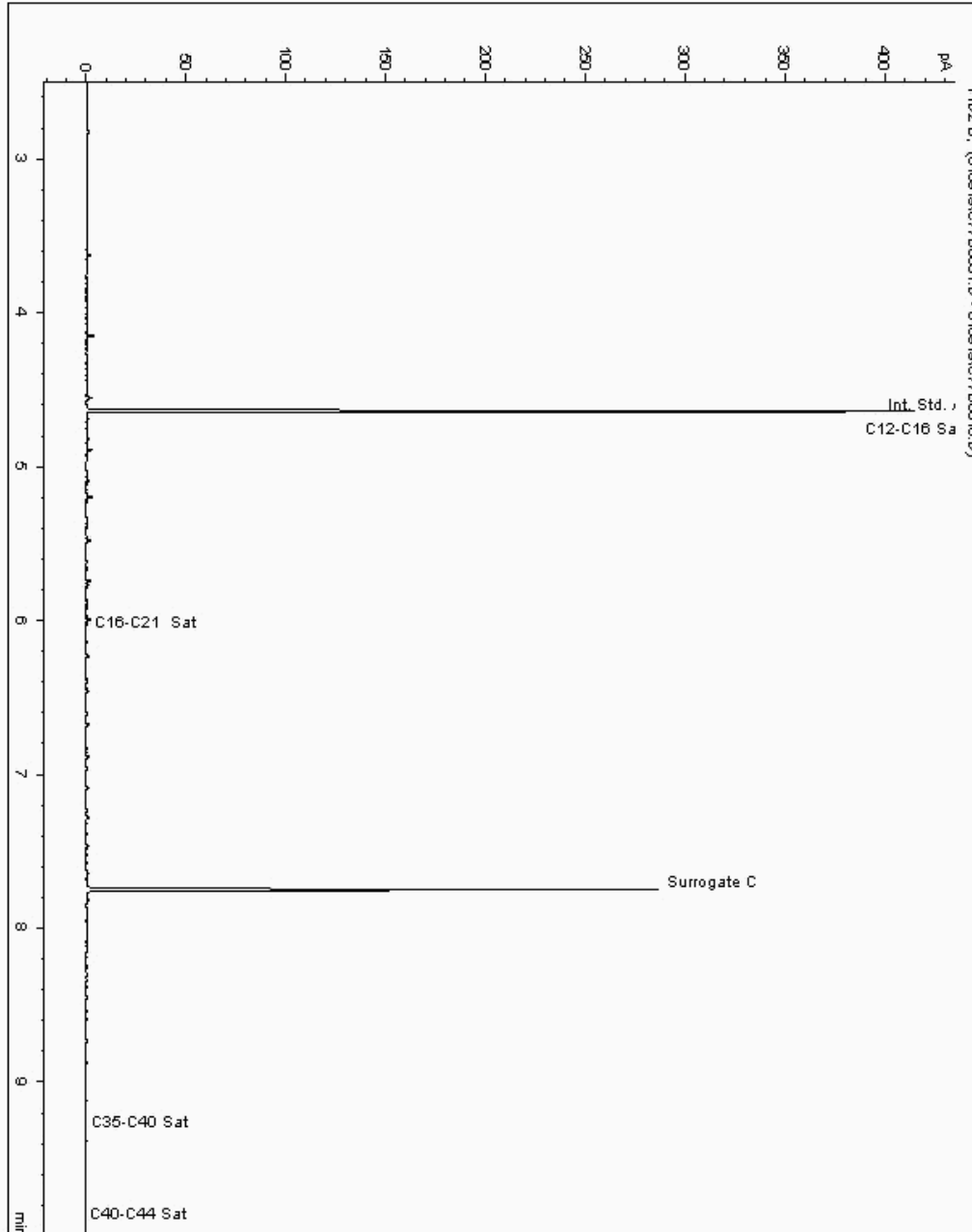
Analysis: EPH CWG (Aliphatic) GC (S)
19031939

Sample No :
Sample ID : BH215

19,031,939Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881029-
Date Acquired : 1/9/2019 4:01:09 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

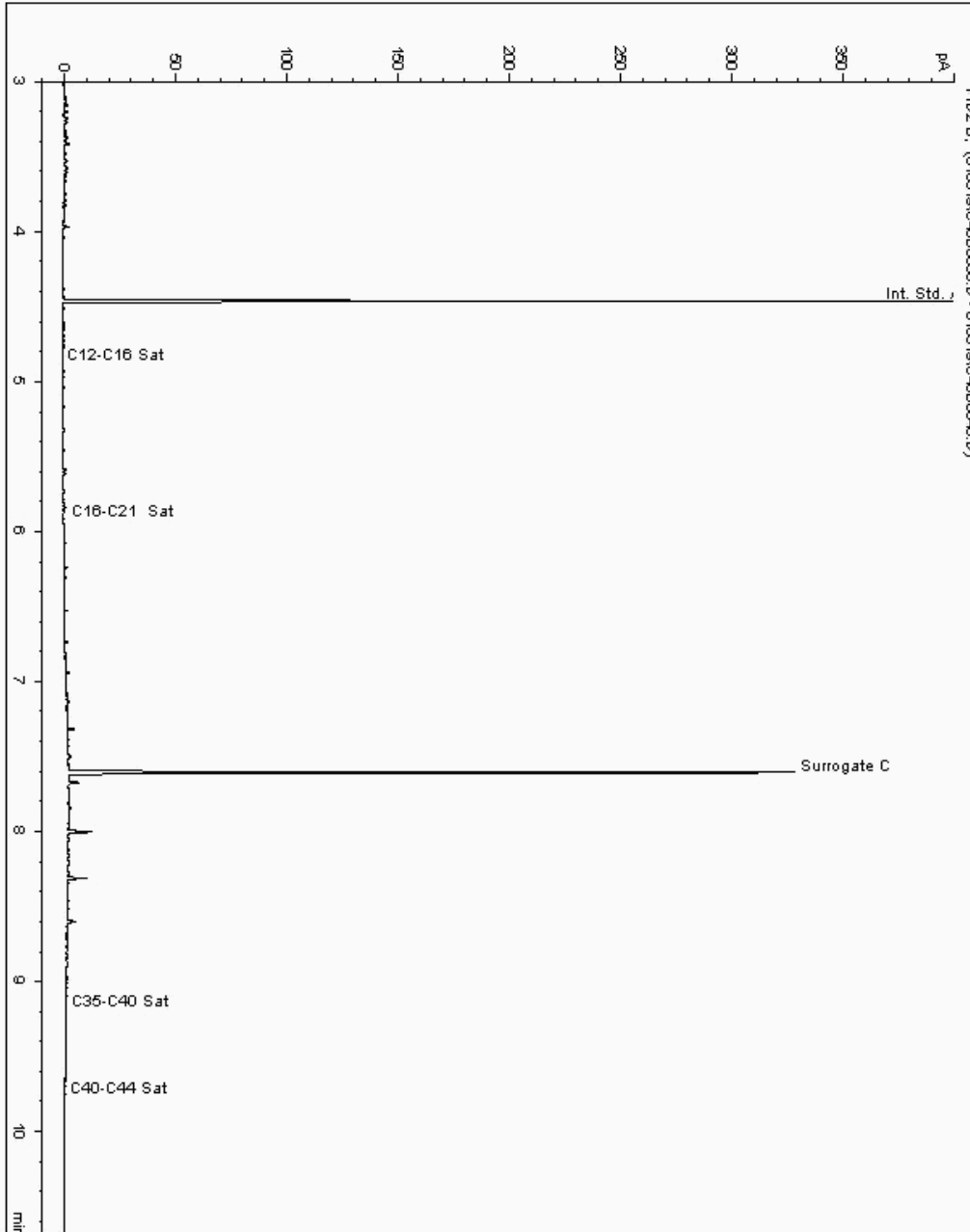
Analysis: EPH CWG (Aliphatic) GC (S)
19031952

Sample No :
Sample ID : BH216

19,031,952Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881954-
Date Acquired : 07/01/2019 19:55:23 PM
Units : ppb
Dilution: BH216[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

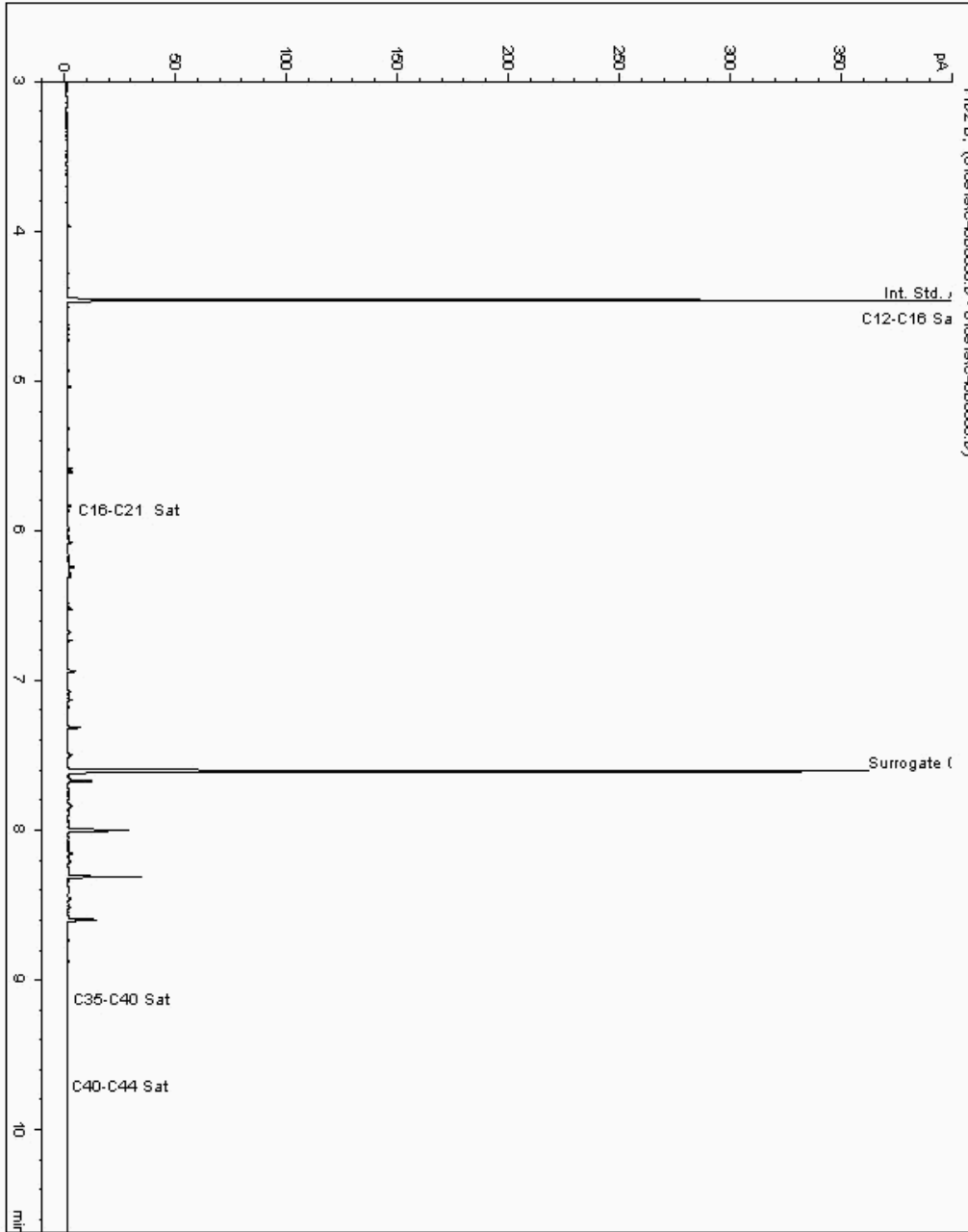
Analysis: EPH CWG (Aliphatic) GC (S)
19032016

Sample No :
Sample ID : BH214

19,032,016Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881791-
Date Acquired : 10/01/2019 06:54:57 PM
Units : ppb
Dilution: BH214[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

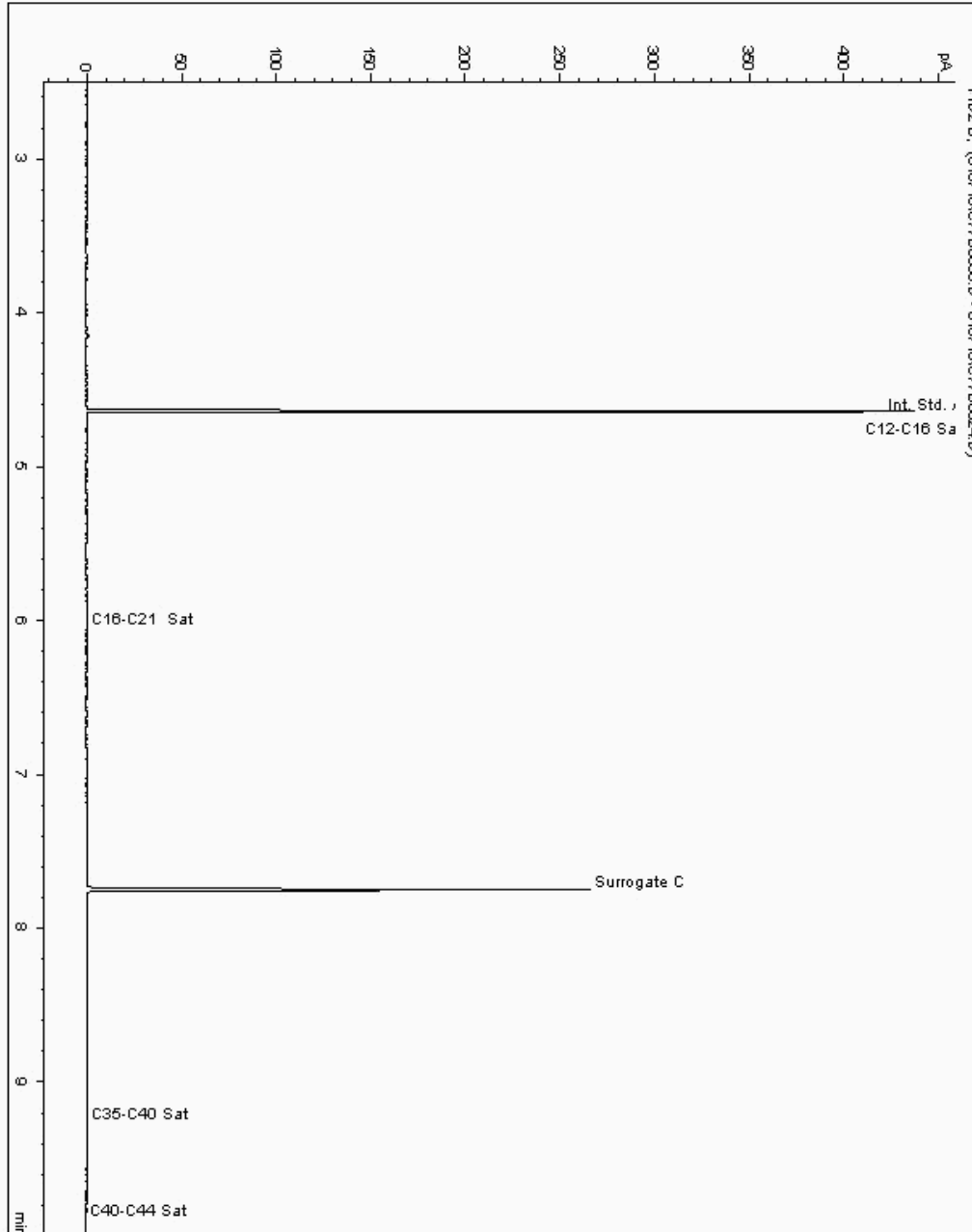
Analysis: EPH CWG (Aliphatic) GC (S)
19032039

Sample No :
Sample ID : BH216

19,032,039 Depth : 11.00 - 13.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17882118-
Date Acquired : 1/7/2019 10:51:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

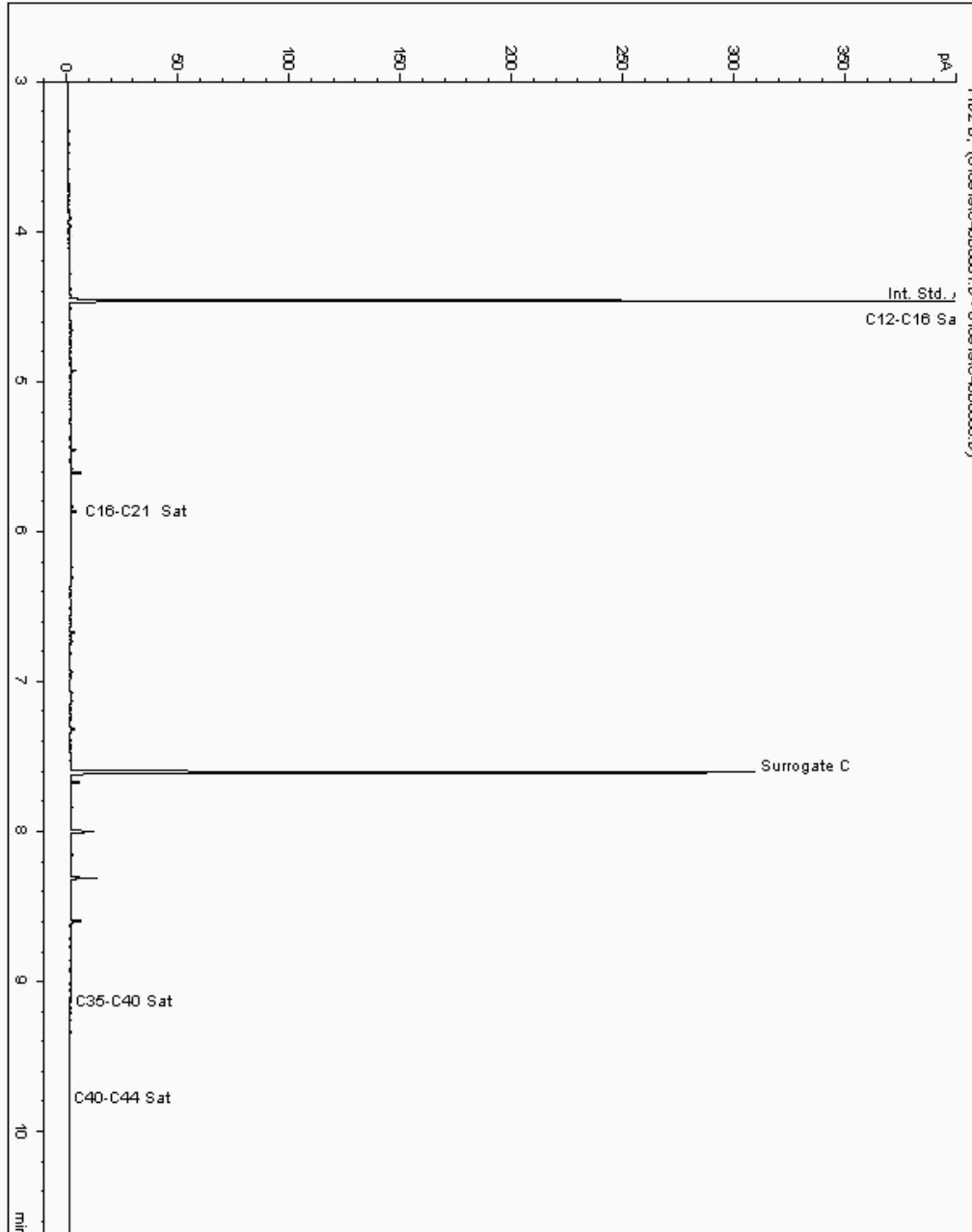
Analysis: EPH CWG (Aliphatic) GC (S)
19032120

Sample No :
Sample ID : BH217

19,032,120Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881977-
Date Acquired : 10/01/2019 08:19:25 PM
Units : ppb
Dilution: BH217[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

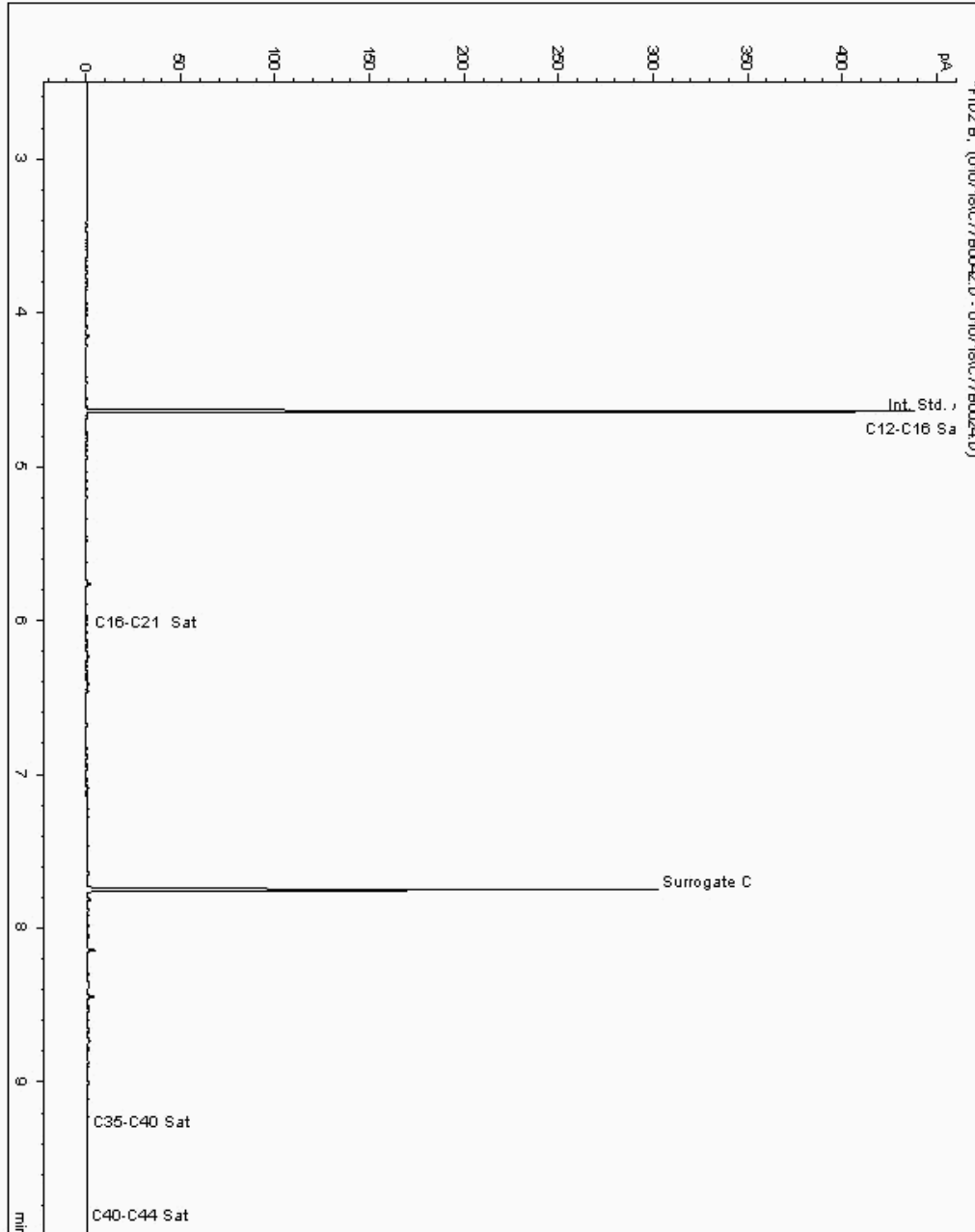
Analysis: EPH CWG (Aliphatic) GC (S)
19032169

Sample No :
Sample ID : BH216

19,032,169Depth :4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881840-
Date Acquired : 1/8/2019 12:03:59 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

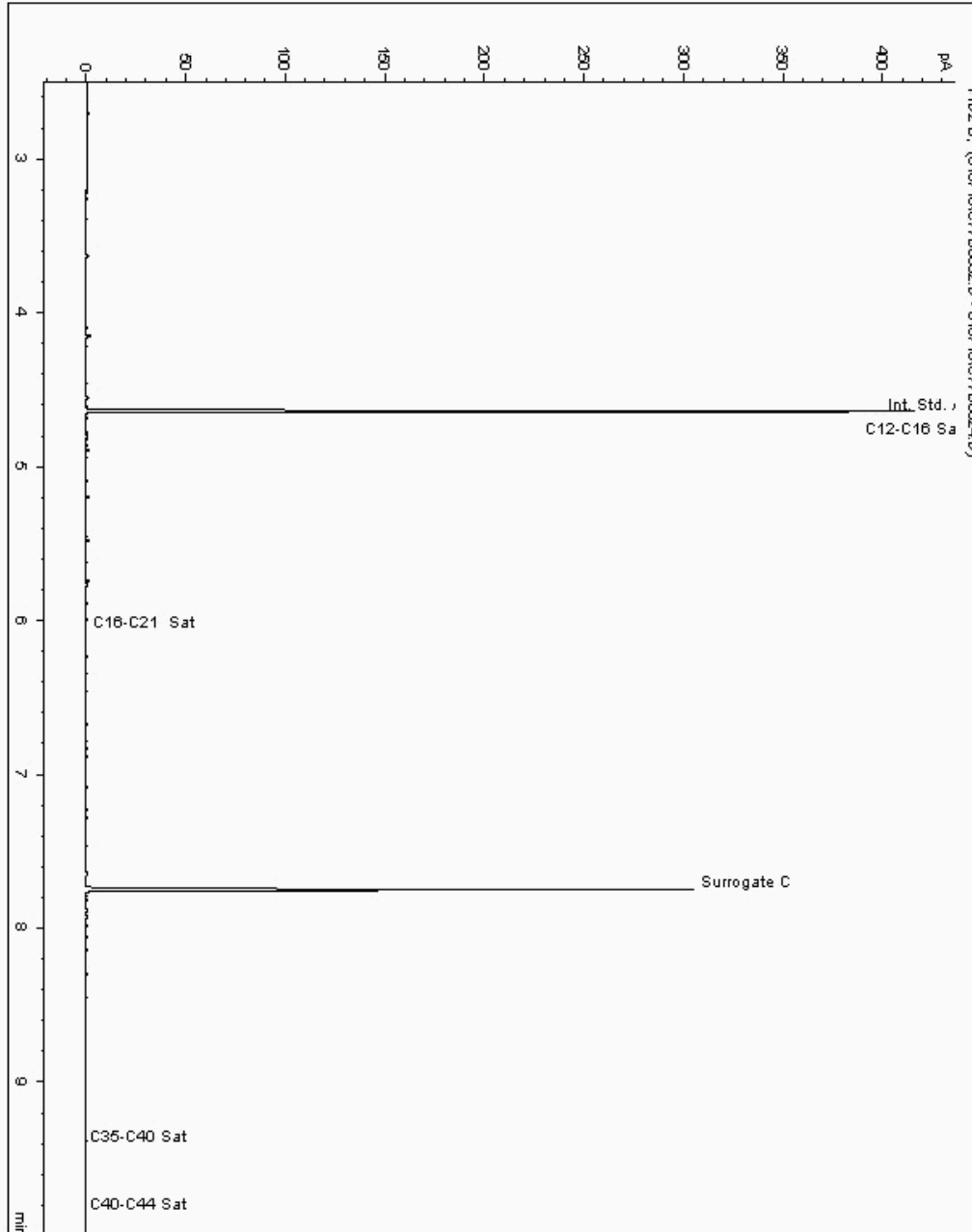
Analysis: EPH CWG (Aliphatic) GC (S)
19032237

Sample No :
Sample ID : BH215

19,032,237Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881051-
Date Acquired : 1/7/2019 9:00:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

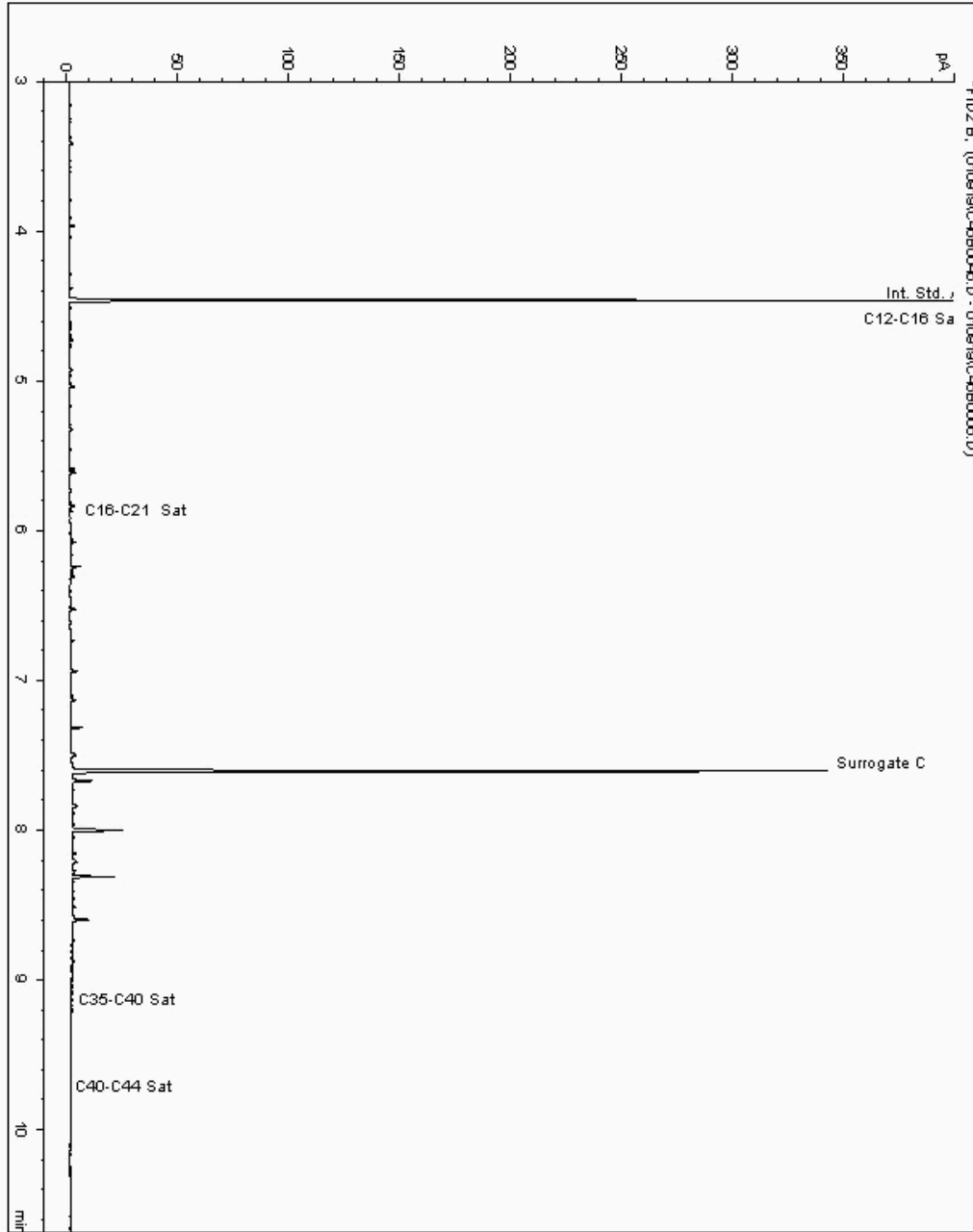
Analysis: EPH CWG (Aliphatic) GC (S)
19032240

Sample No :
Sample ID : BH216

19,032,240Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881862-
Date Acquired : 10/01/2019 03:55:42 PM
Units : ppb
Dilution: BH216[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

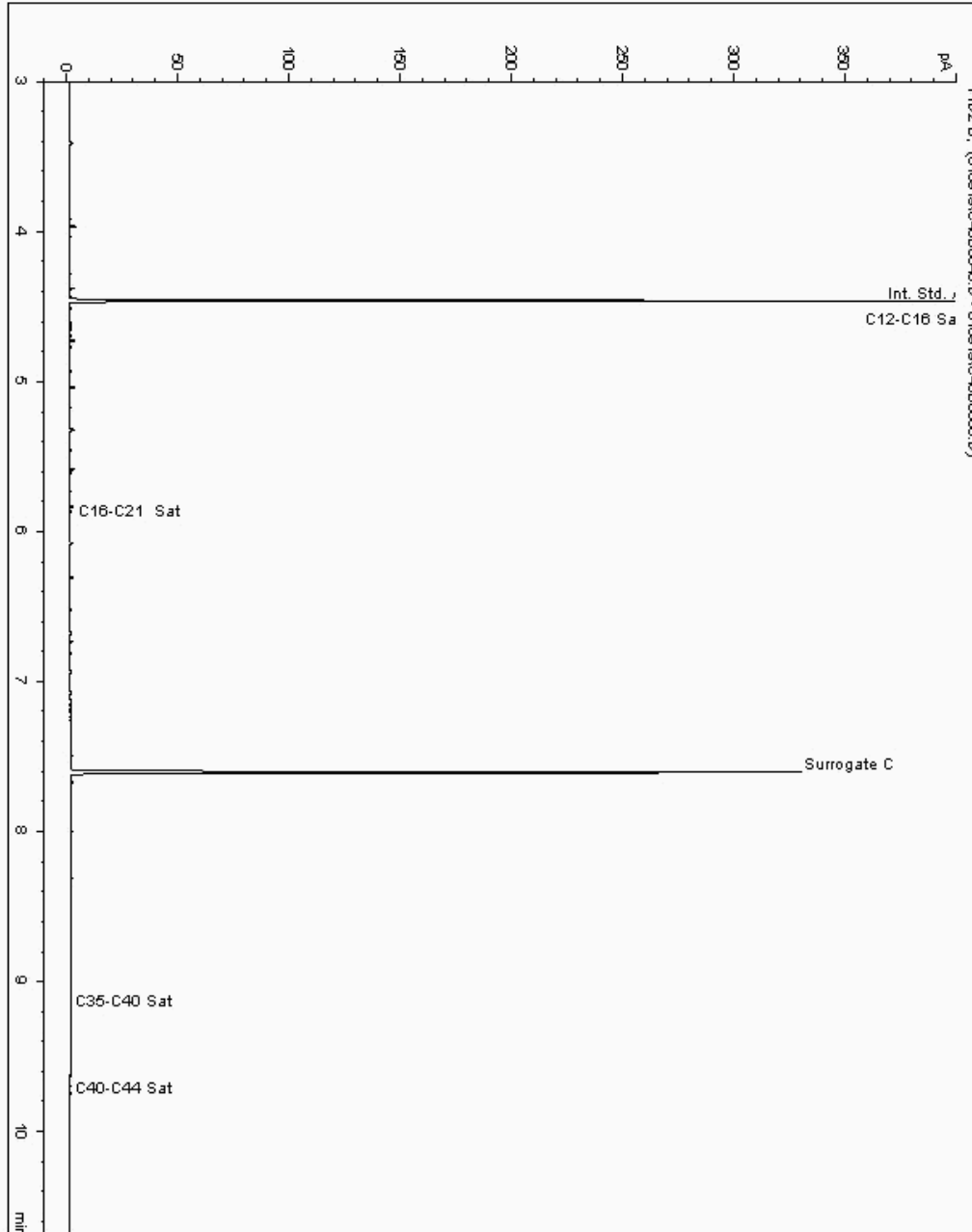
Analysis: EPH CWG (Aliphatic) GC (S)
19032243

Sample No :
Sample ID : BH216

19,032,243Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881140-
Date Acquired : 10/01/2019 04:39:22 PM
Units : ppb
Dilution: BH216[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

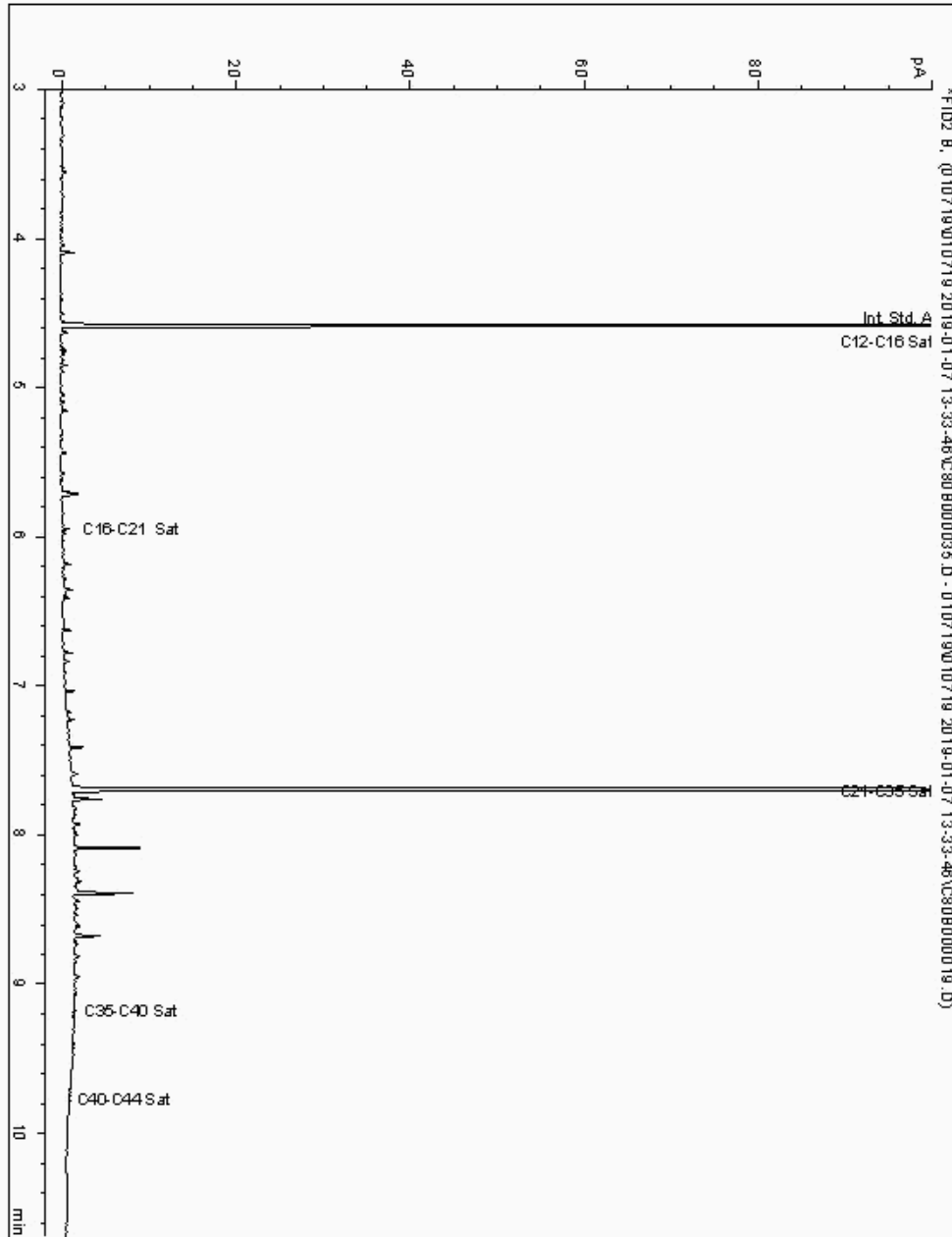
Analysis: EPH CWG (Aliphatic) GC (S)
19032324

Sample No :
Sample ID : BH216

19,032,324Depth :6.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881908-
Date Acquired : 08/01/19 00:07:49
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

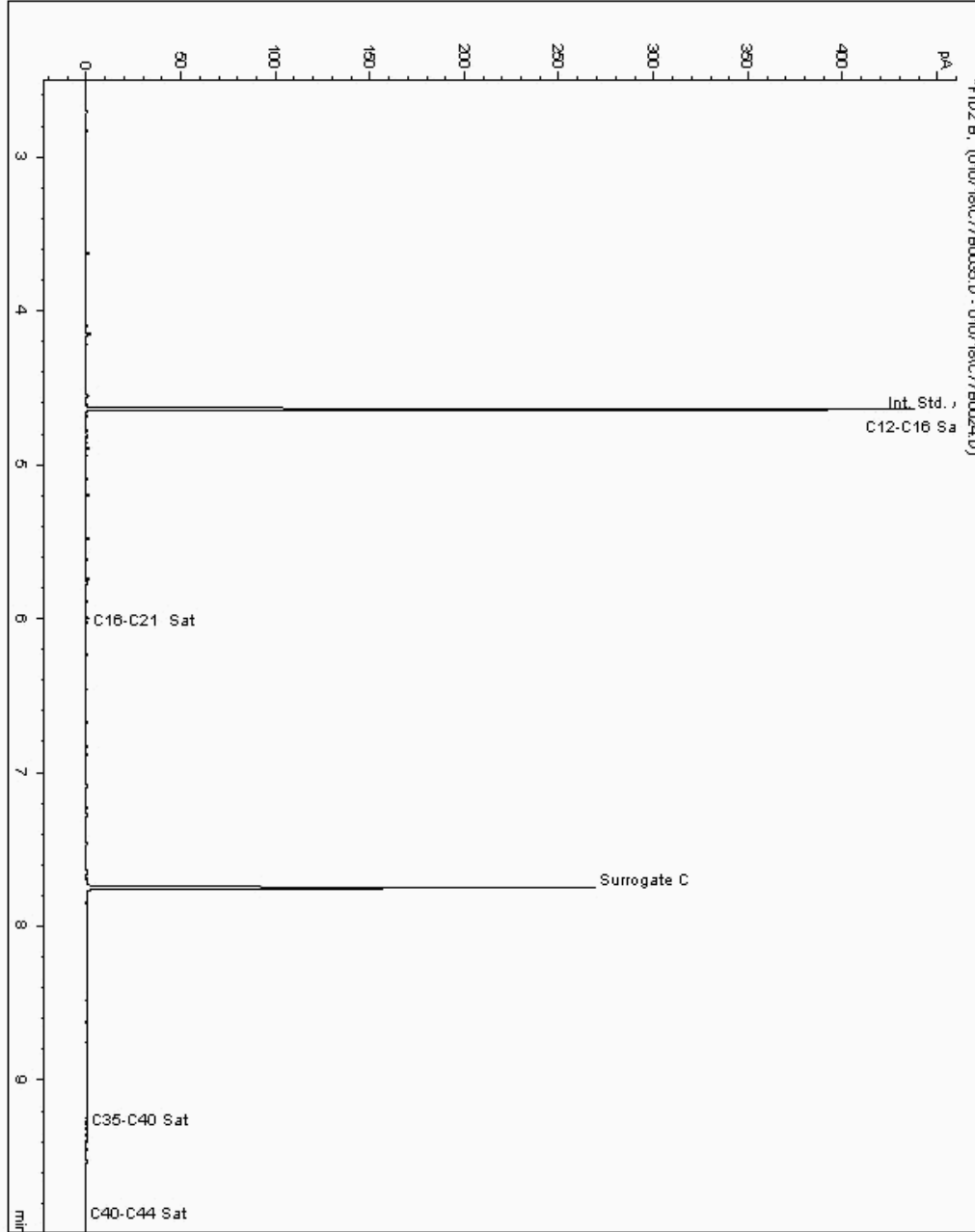
Analysis: EPH CWG (Aliphatic) GC (S)
19032368

Sample No :
Sample ID : BH217

19,032,368 Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881627-
Date Acquired : 1/7/2019 10:00:13 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

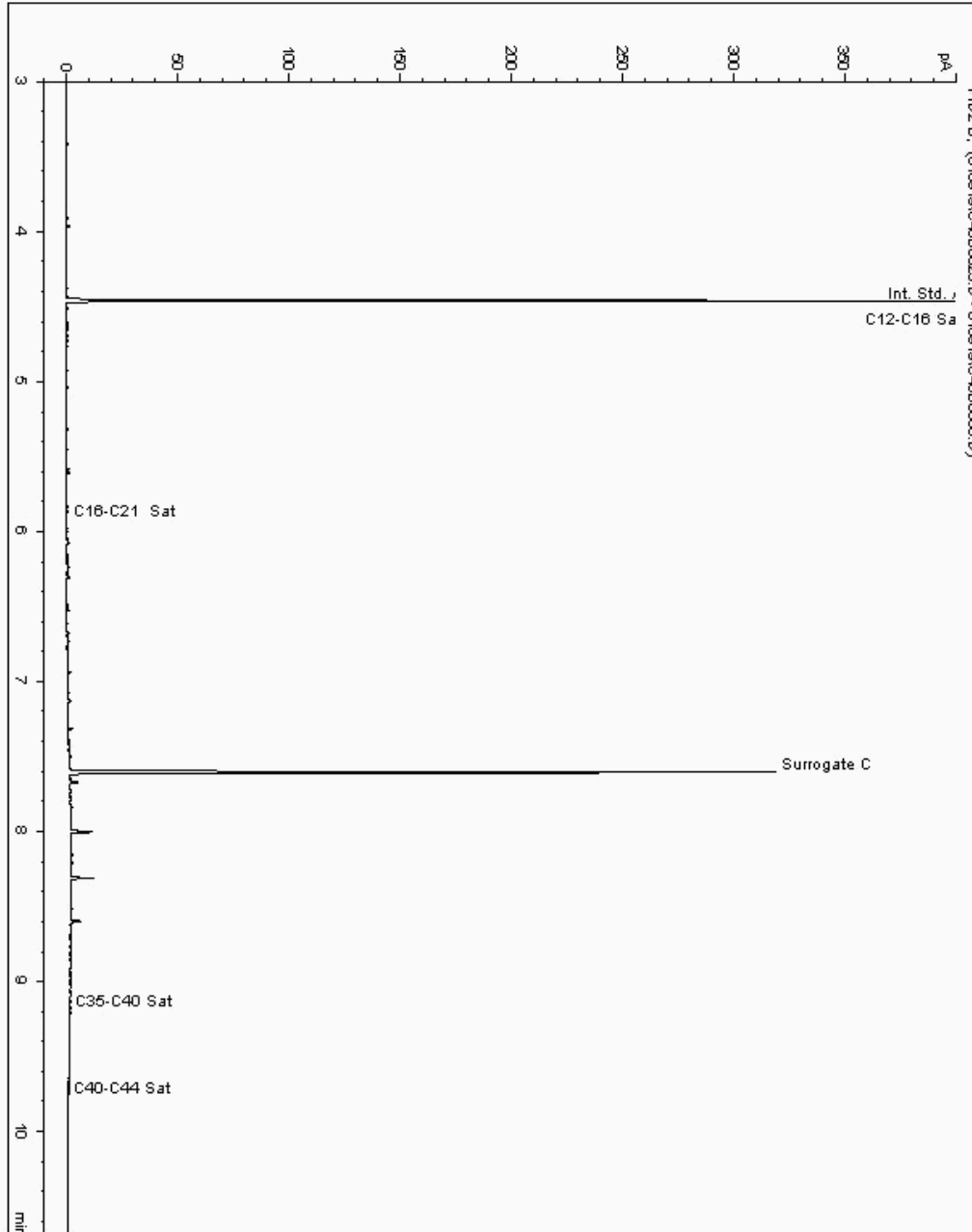
Analysis: EPH CWG (Aliphatic) GC (S)
19032391

Sample No :
Sample ID : BH214

19,032,391 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881673-
Date Acquired : 09/01/2019 22:06:00 PM
Units : ppb
Dilution: BH214[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

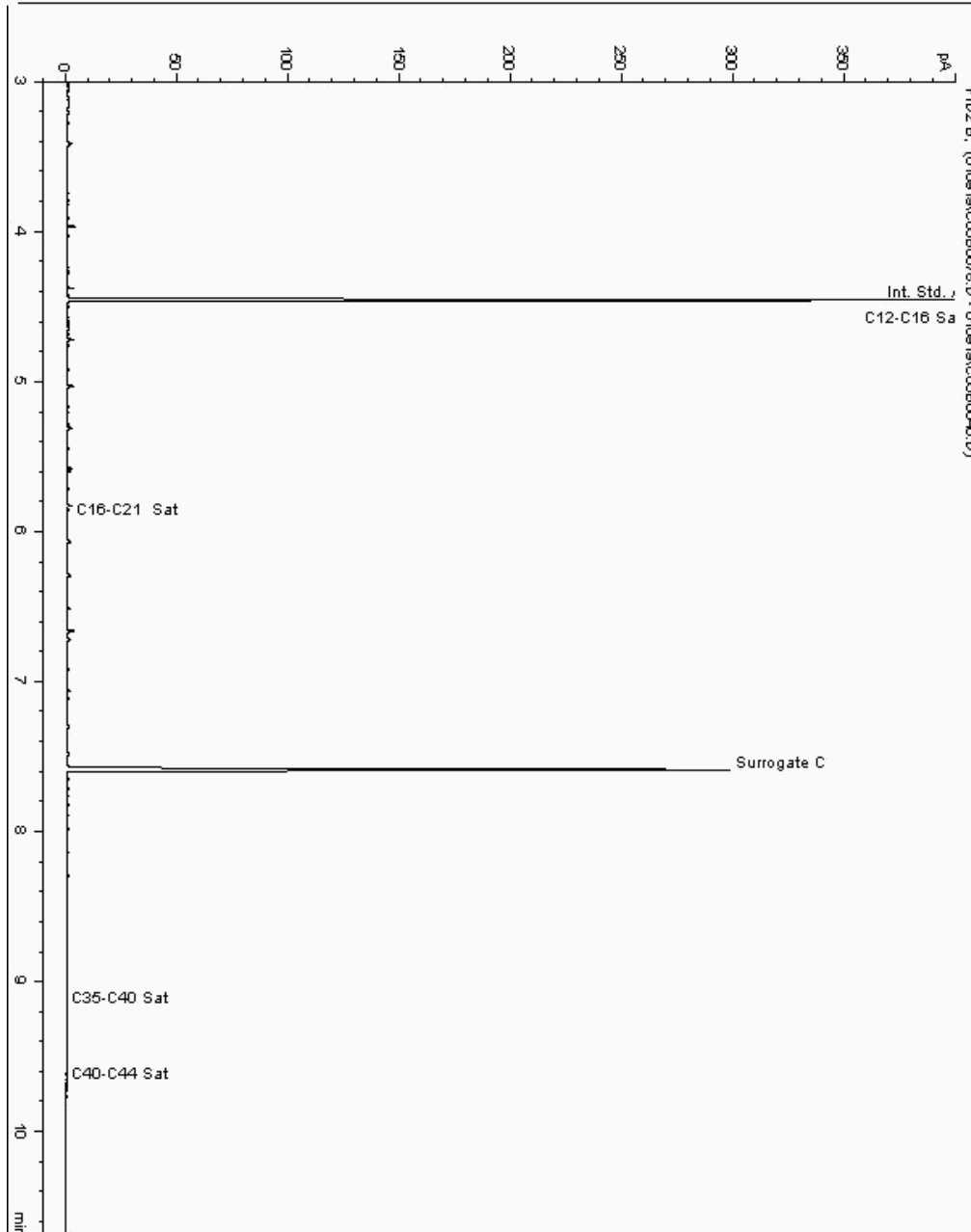
Analysis: EPH CWG (Aliphatic) GC (S)
19032534

Sample No :
Sample ID : BH216

19,032,534Depth : 15.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881117-
Date Acquired : 10/01/2019 10:44:13 PM
Units : ppb
Dilution: BH216[15.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

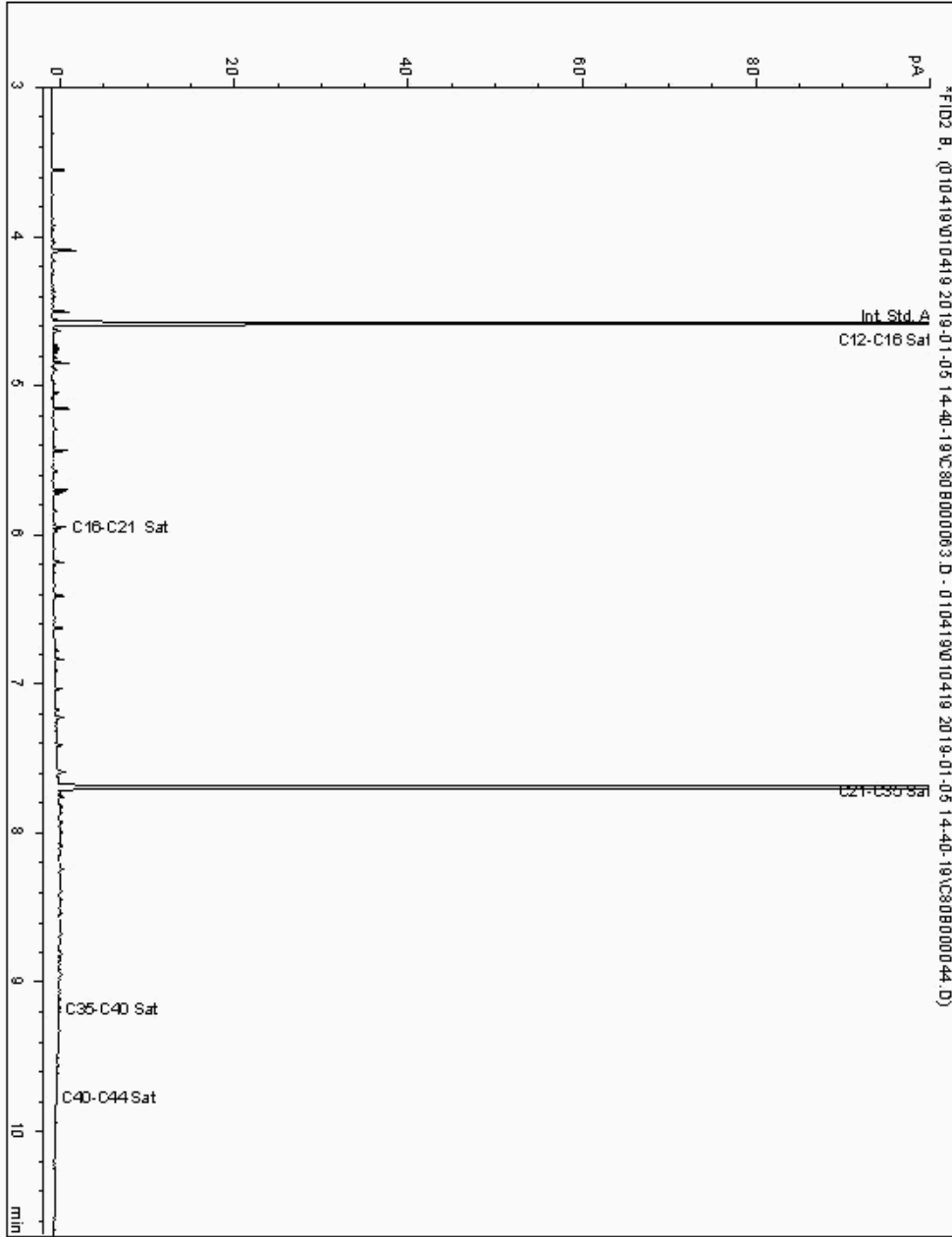
Analysis: EPH CWG (Aliphatic) GC (S)
19032638

Sample No :
Sample ID : BH214

19,032,638 Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881399-
Date Acquired : 05/01/19 21:26:18
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

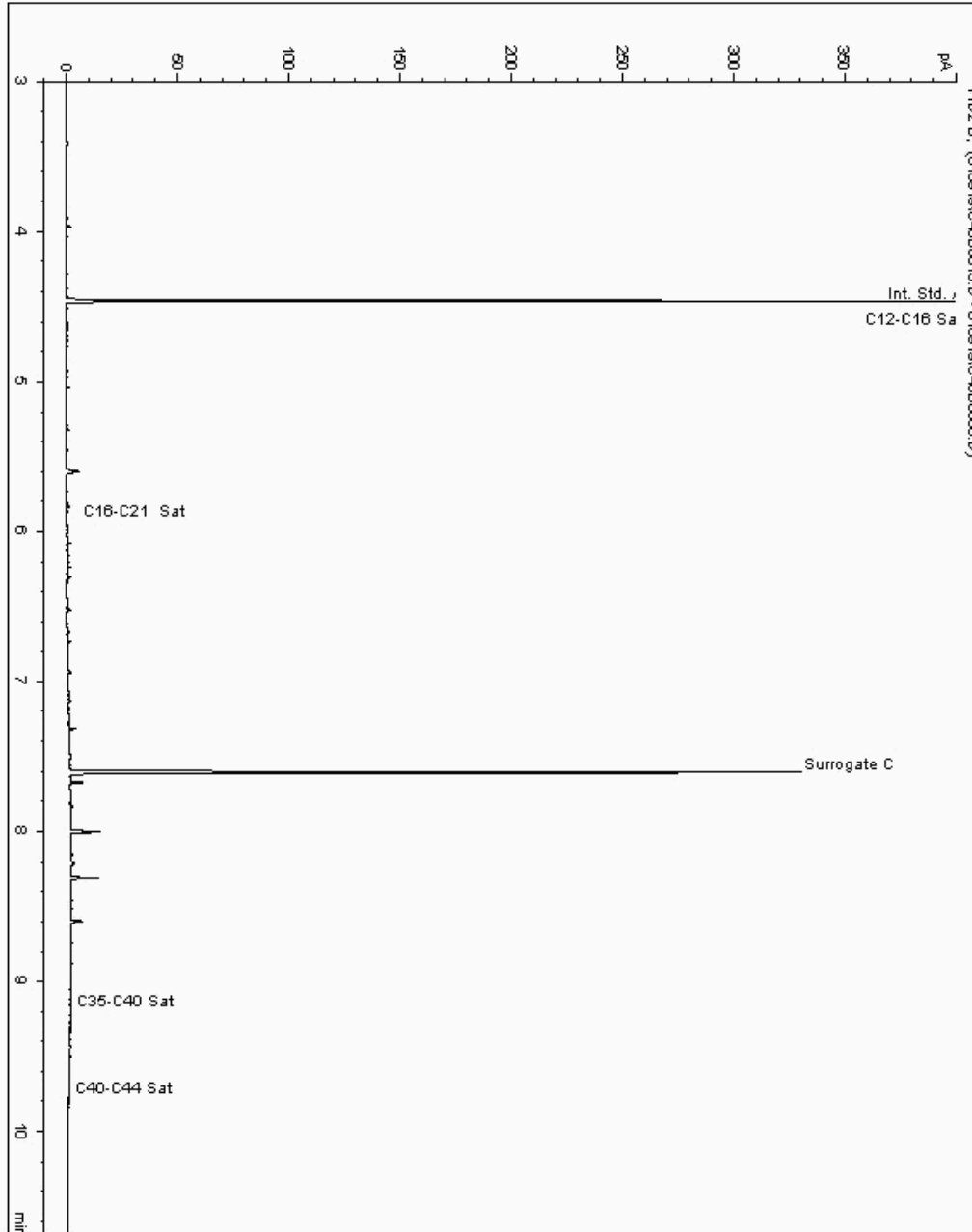
Analysis: EPH CWG (Aliphatic) GC (S)
19032642

Sample No :
Sample ID : BH216

19,032,642Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881931-
Date Acquired : 09/01/2019 18:21:50 PM
Units : ppb
Dilution: BH216[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

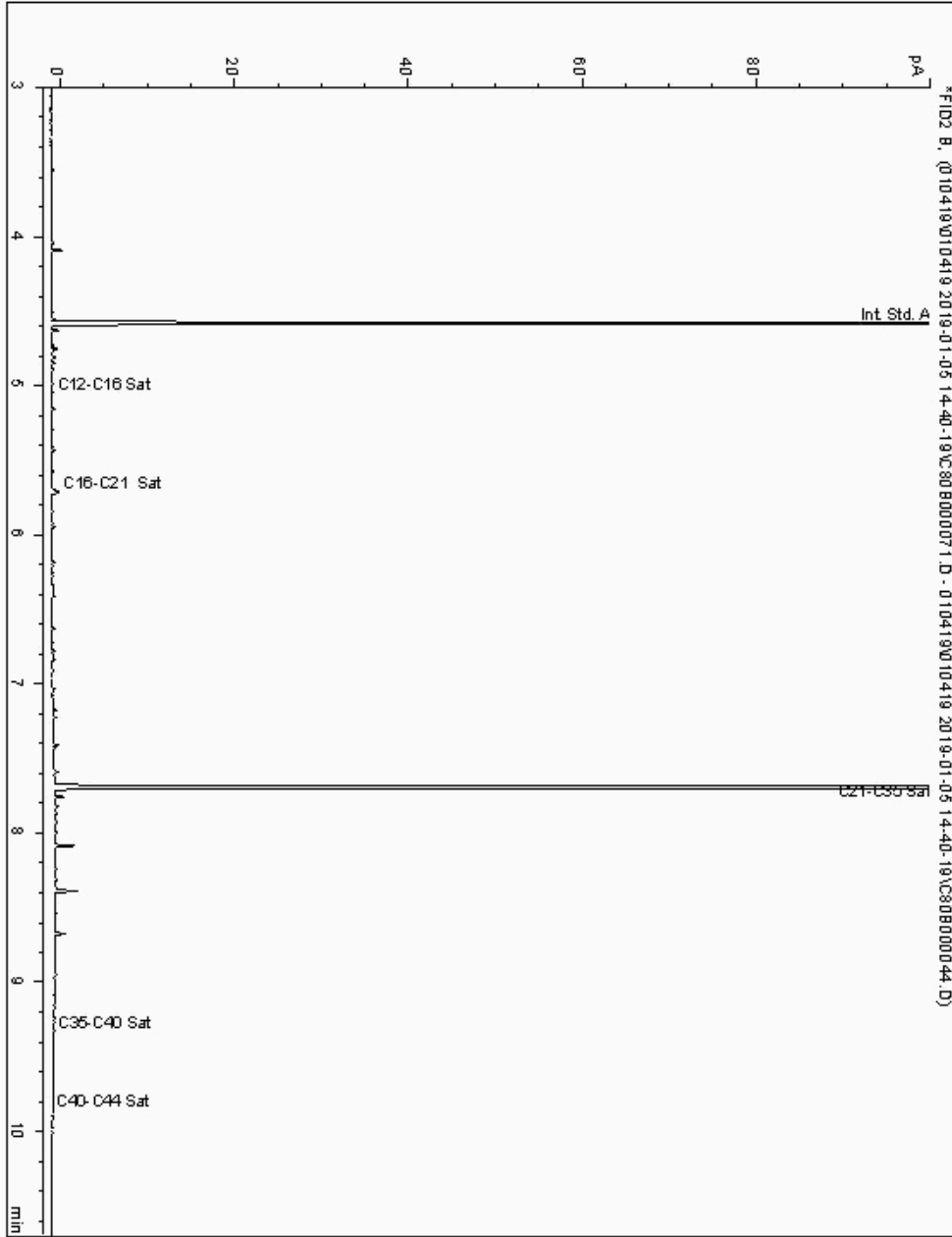
Analysis: EPH CWG (Aliphatic) GC (S)
19032688

Sample No :
Sample ID : BH215

19,032,688Depth : 6.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881514-
Date Acquired : 05/01/19 23:56:46
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

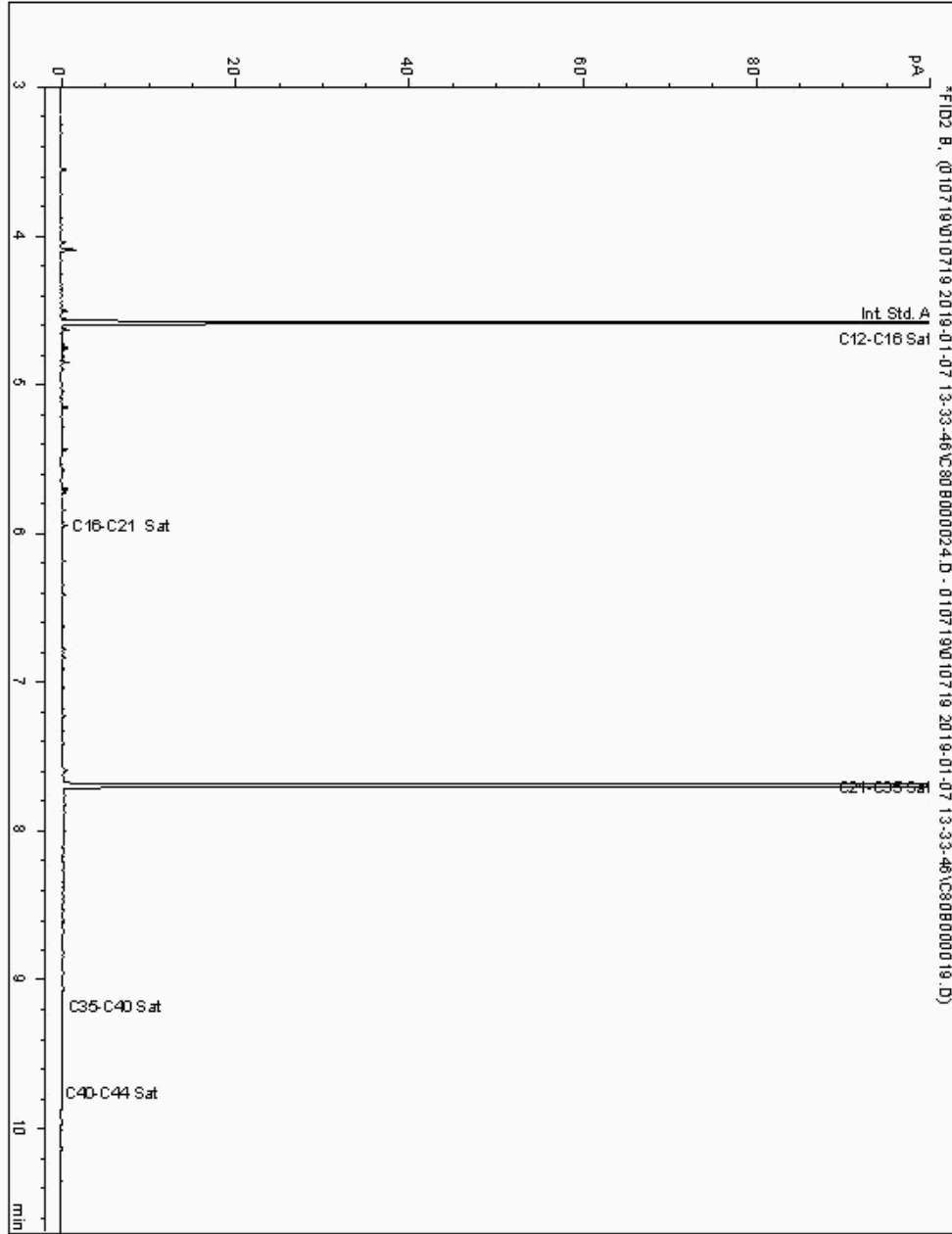
Analysis: EPH CWG (Aliphatic) GC (S)
19032760

Sample No :
Sample ID : BH216

19,032,760 Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881095-
Date Acquired : 07/01/19 21:07:35
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

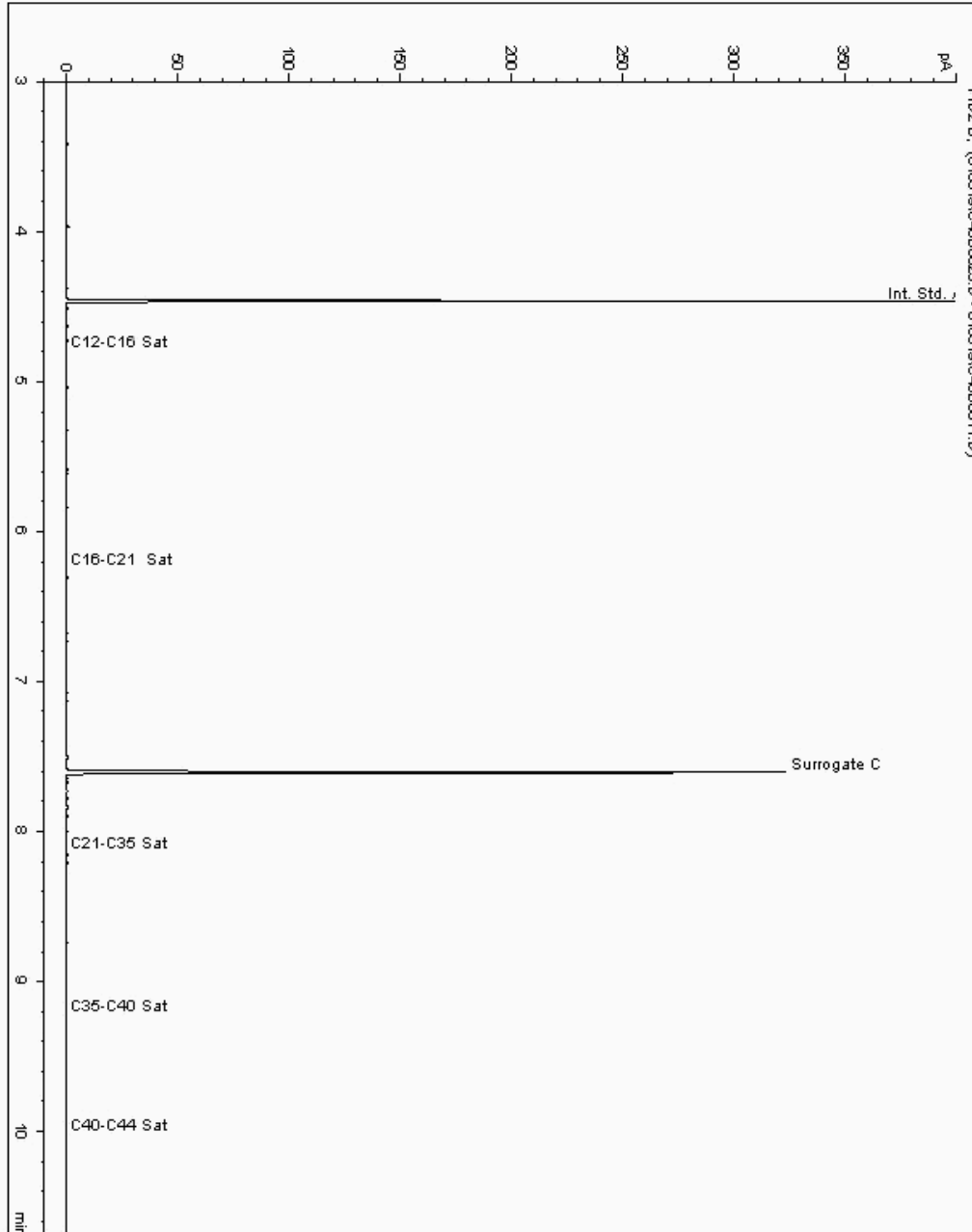
Analysis: EPH CWG (Aliphatic) GC (S)
19032814

Sample No :
Sample ID : BH214

19,032,814 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881331-
Date Acquired : 05/01/2019 17:06:56 PM
Units : ppb
Dilution: BH214[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

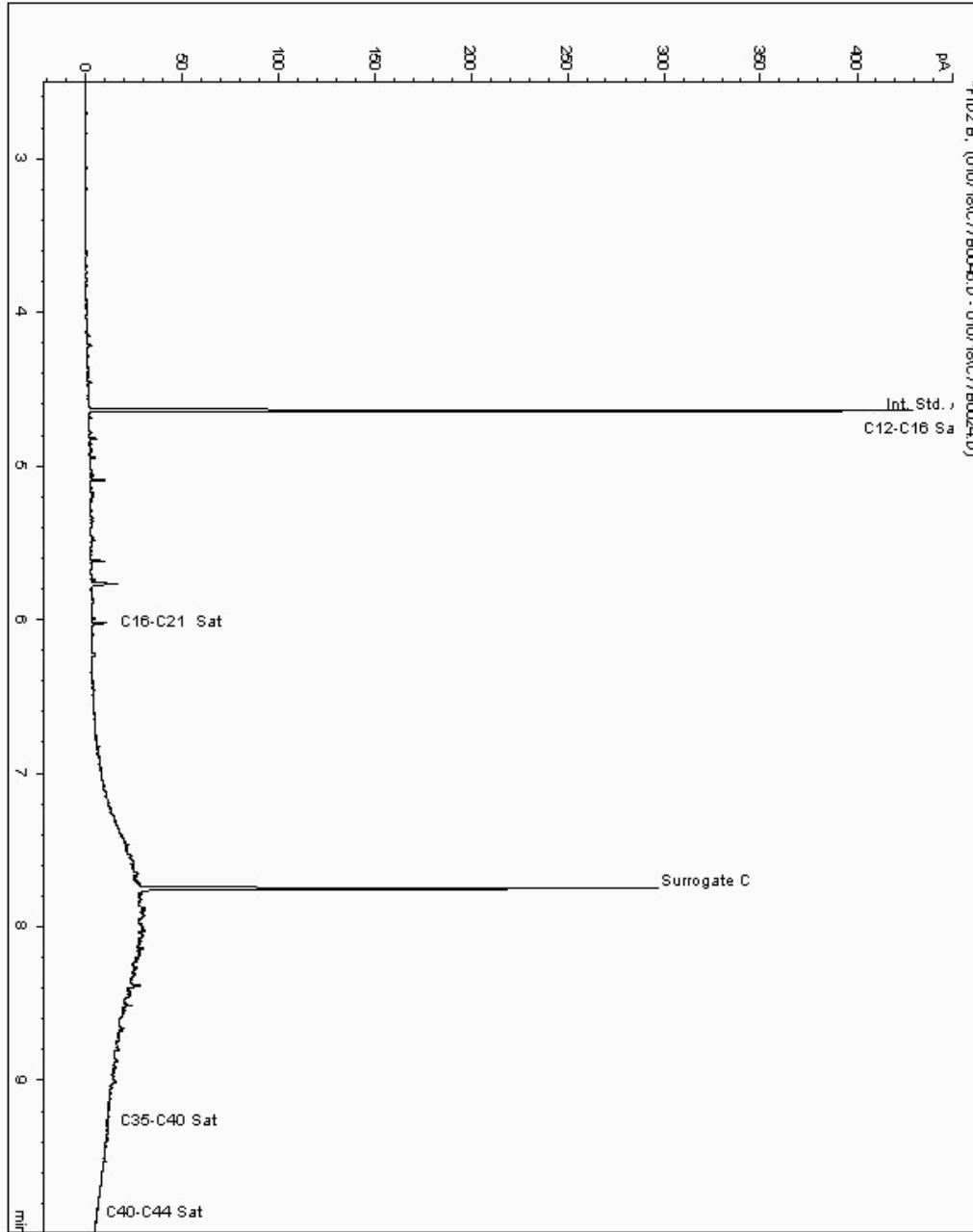
Analysis: EPH CWG (Aliphatic) GC (S)
19032870

Sample No :
Sample ID : BH217

19,032,870 Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17882048-
Date Acquired : 1/8/2019 12:55:48 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

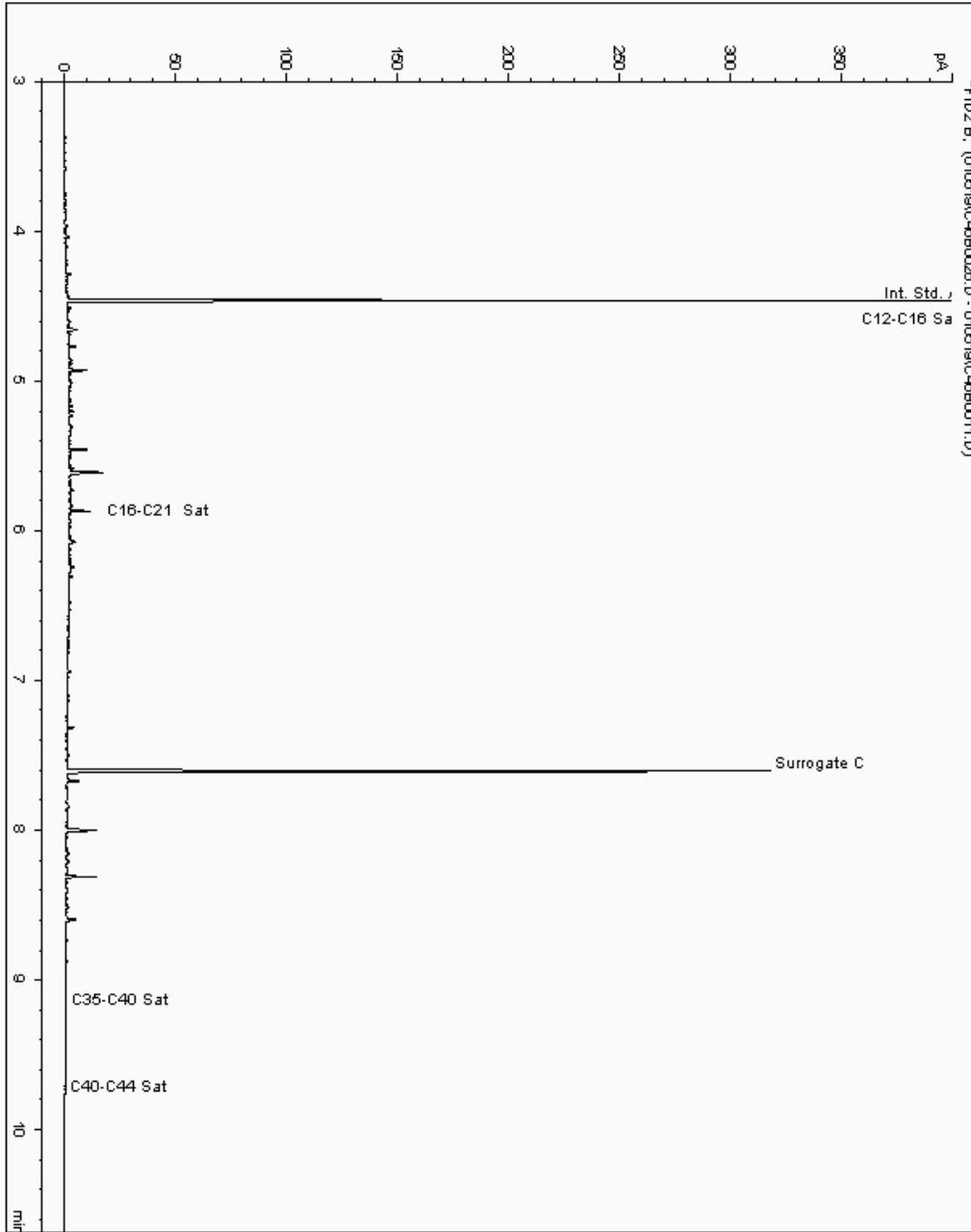
Analysis: EPH CWG (Aliphatic) GC (S)
19032923

Sample No :
Sample ID : BH217

19,032,923Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881468-
Date Acquired : 05/01/2019 17:26:45 PM
Units : ppb
Dilution: BH217[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

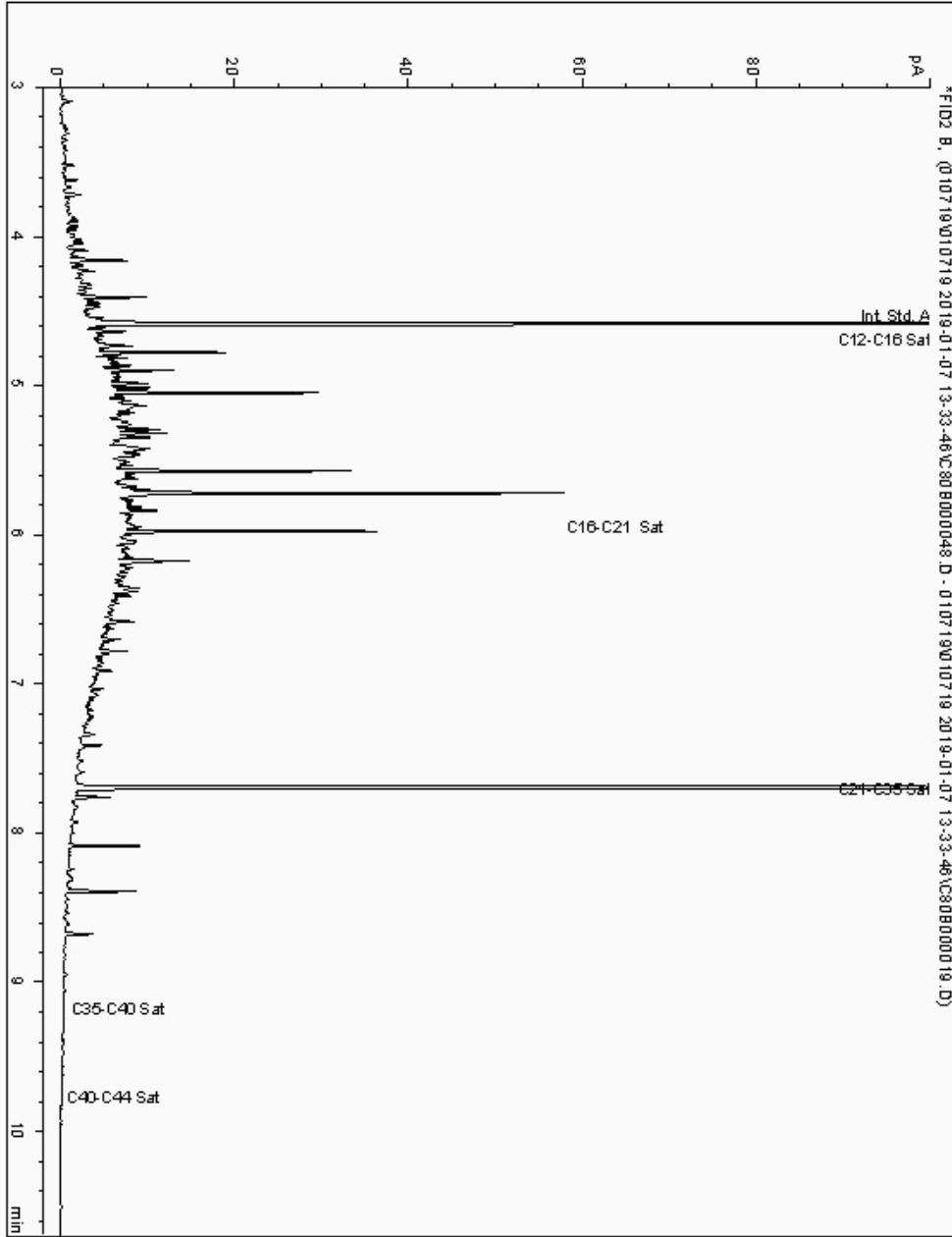
Analysis: EPH CWG (Aliphatic) GC (S)
19032931

Sample No :
Sample ID : BH217

19,032,931 Depth : 0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17882025-
Date Acquired : 08/01/19 03:39:40
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

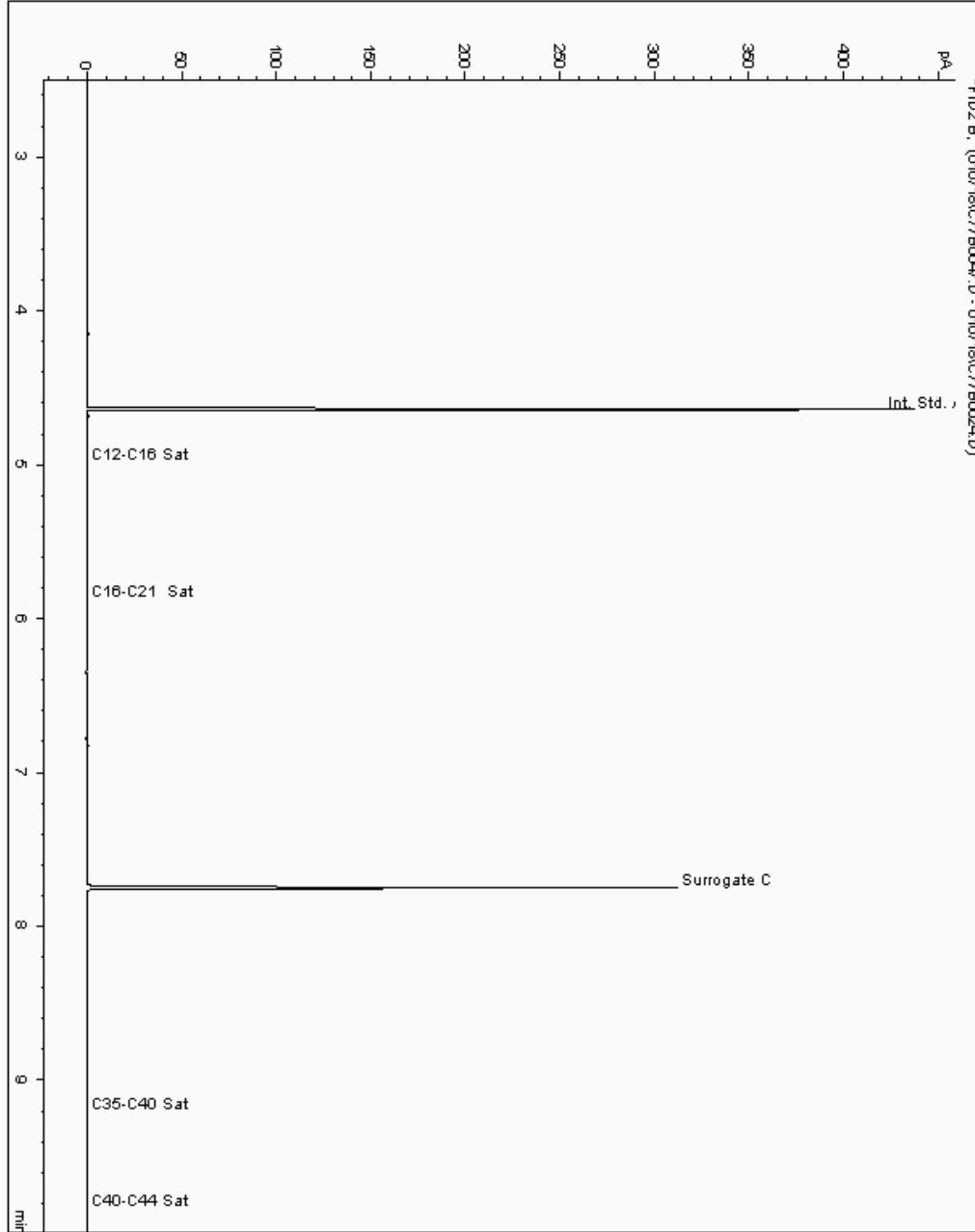
Analysis: EPH CWG (Aliphatic) GC (S)
19032951

Sample No :
Sample ID : BH214

19,032,951 Depth : 9.00 - 11.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881377-
Date Acquired : 1/8/2019 1:27:39 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

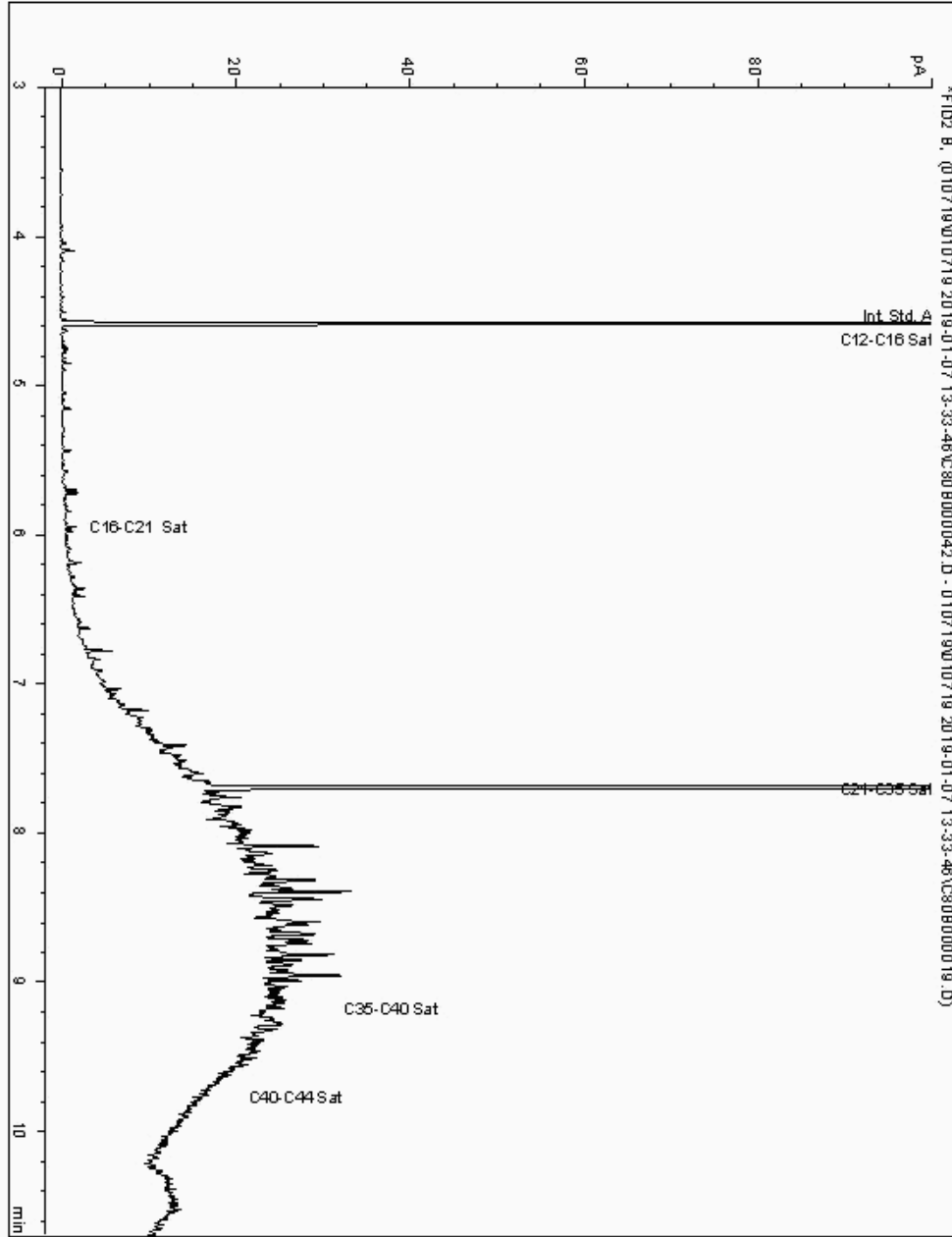
Analysis: EPH CWG (Aliphatic) GC (S)
19033025

Sample No :
Sample ID : BH214

19,033,025 Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881766-
Date Acquired : 08/01/19 02:12:12
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

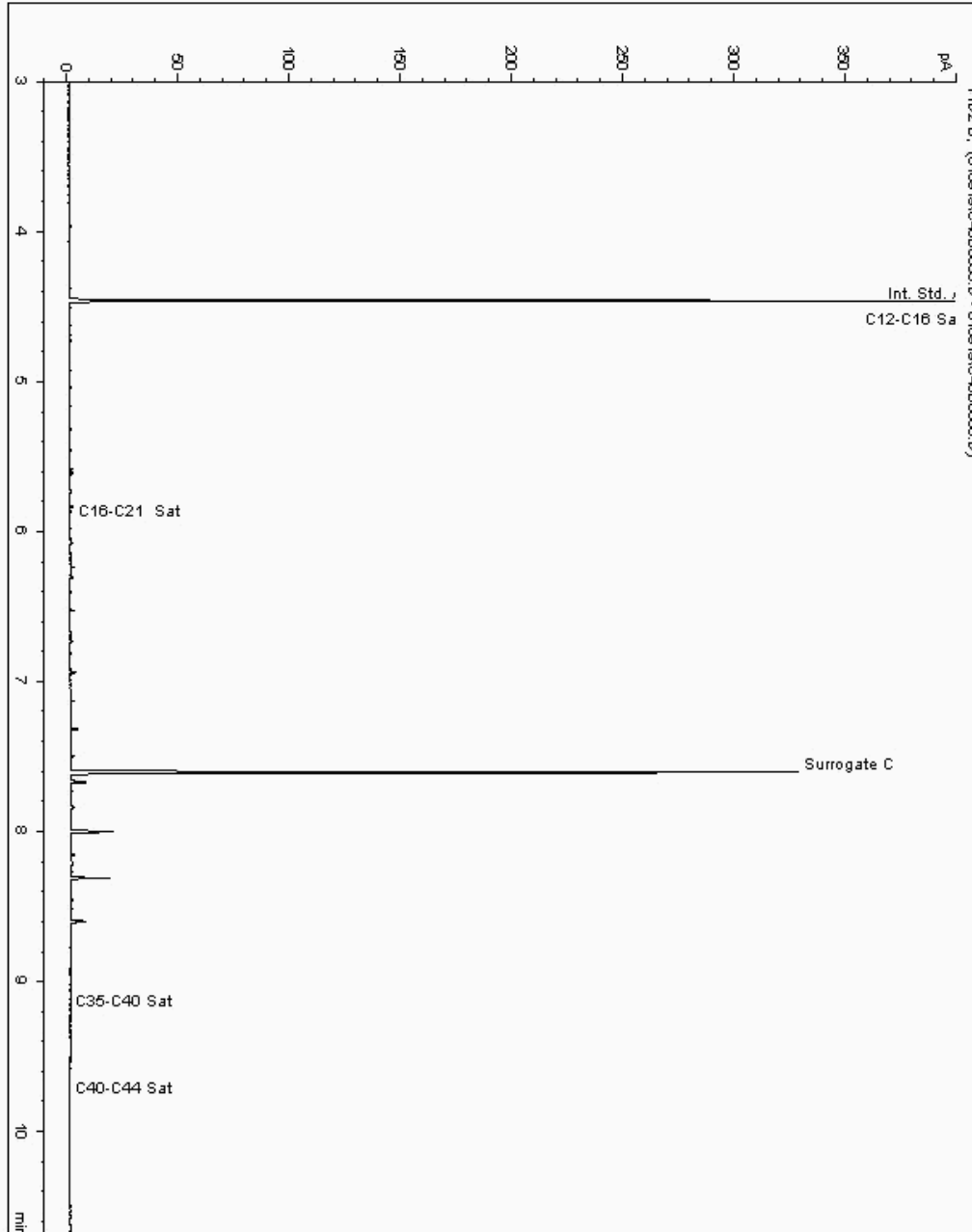
Analysis: EPH CWG (Aliphatic) GC (S)
19033069

Sample No :
Sample ID : BH216

19,033,069Depth :0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881814-
Date Acquired : 10/01/2019 06:34:57 PM
Units : ppb
Dilution: BH216[0.00 - 0.50] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

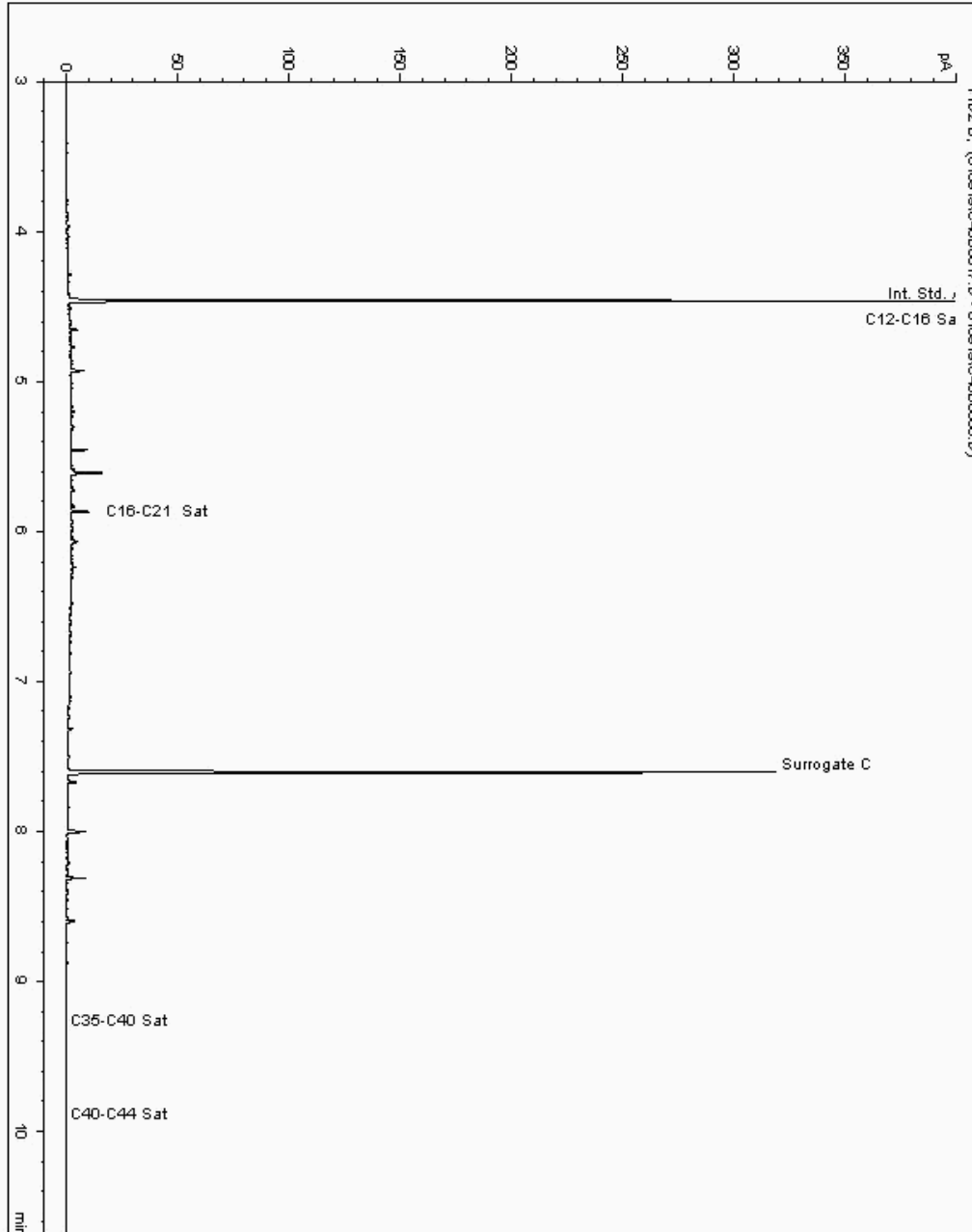
Analysis: EPH CWG (Aliphatic) GC (S)
19033074

Sample No :
Sample ID : BH217

19,033,074Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881445-
Date Acquired : 09/01/2019 19:34:10 PM
Units : ppb
Dilution: BH217[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

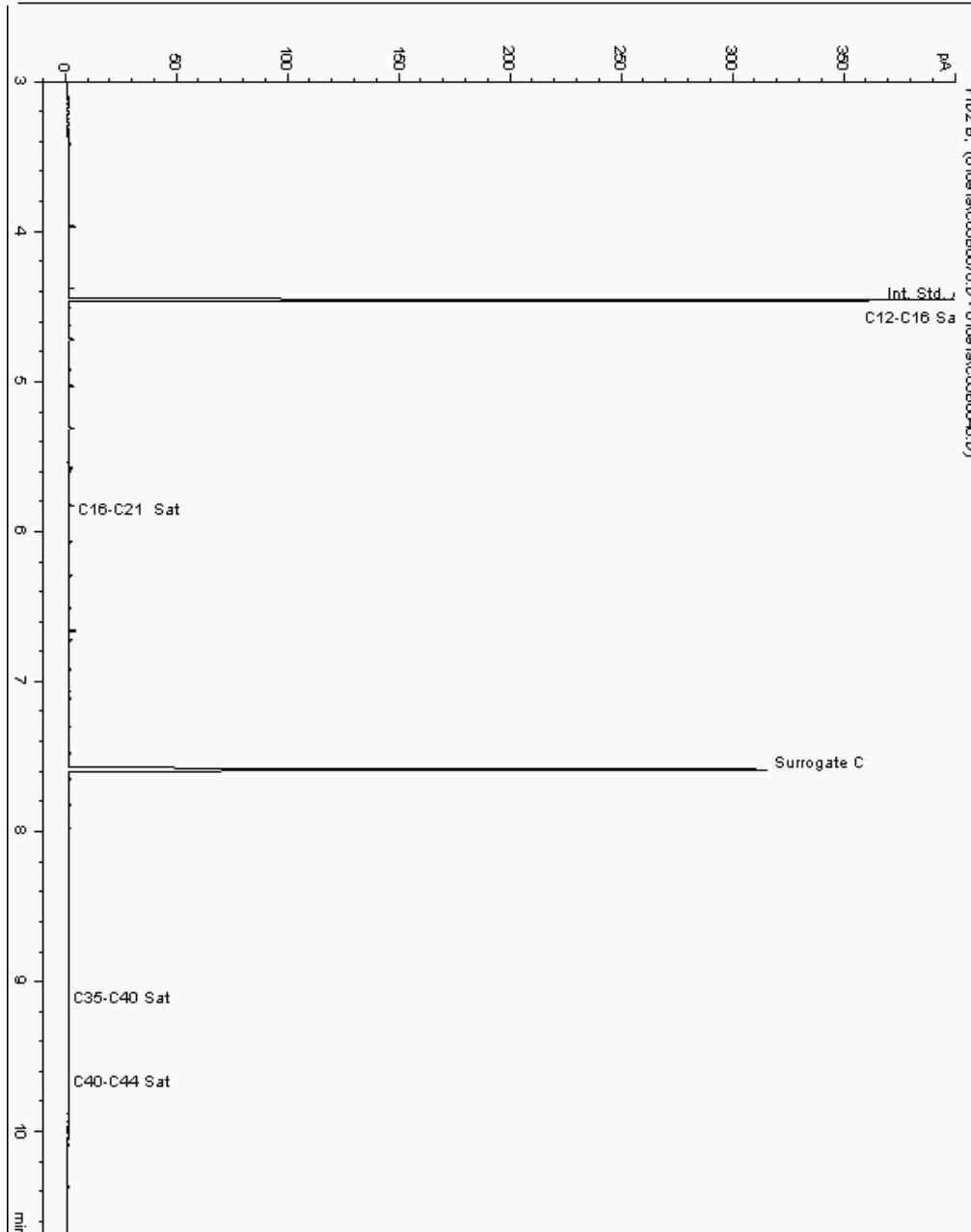
Analysis: EPH CWG (Aliphatic) GC (S)
19033111

Sample No :
Sample ID : BH215

19,033,111Depth : 13.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881073-
Date Acquired : 10/01/2019 10:03:32 PM
Units : ppb
Dilution: BH215[13.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

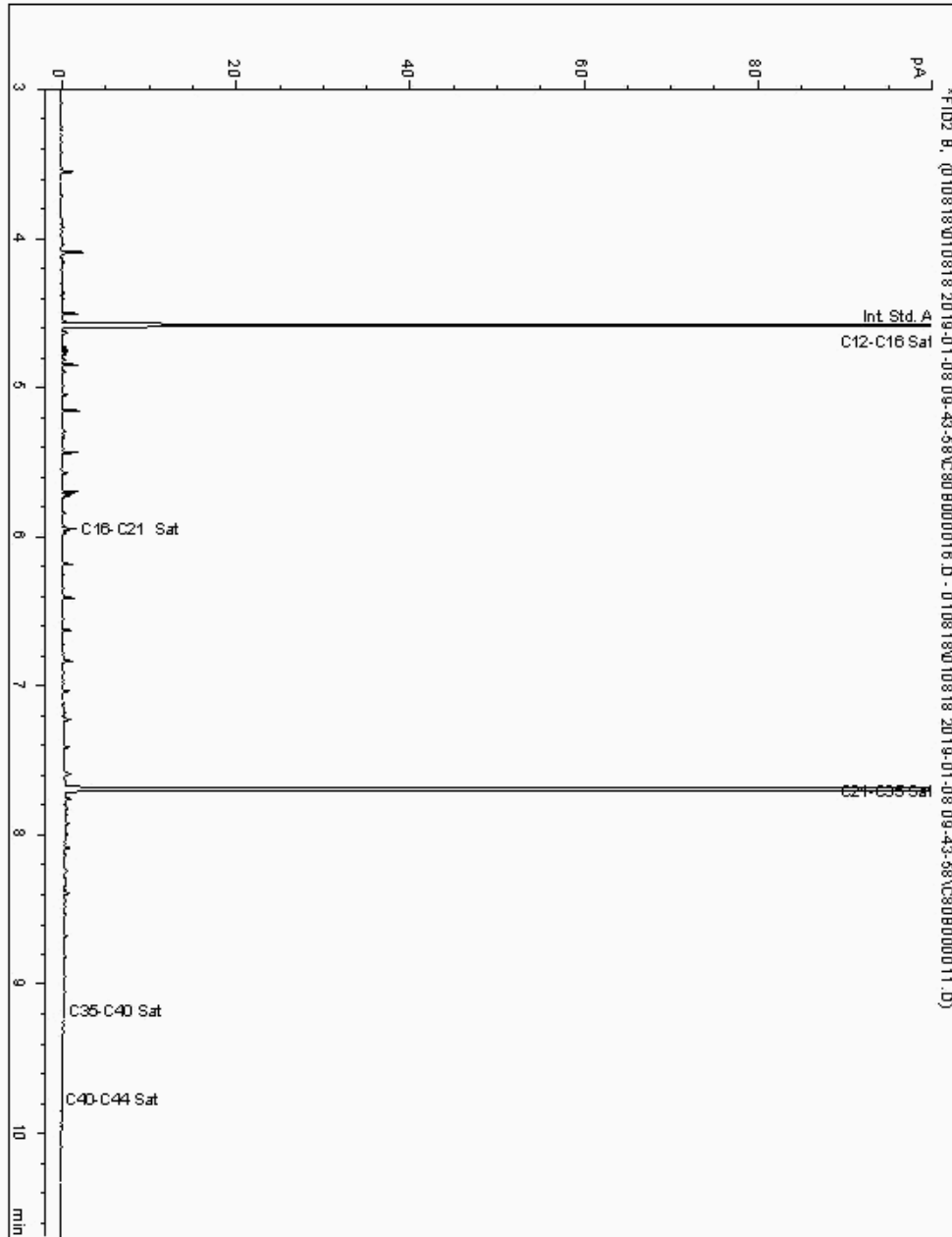
Analysis: EPH CWG (Aliphatic) GC (S)
19033206

Sample No :
Sample ID : BH217

19,033,206Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881162-
Date Acquired : 08/01/19 13:49:52
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

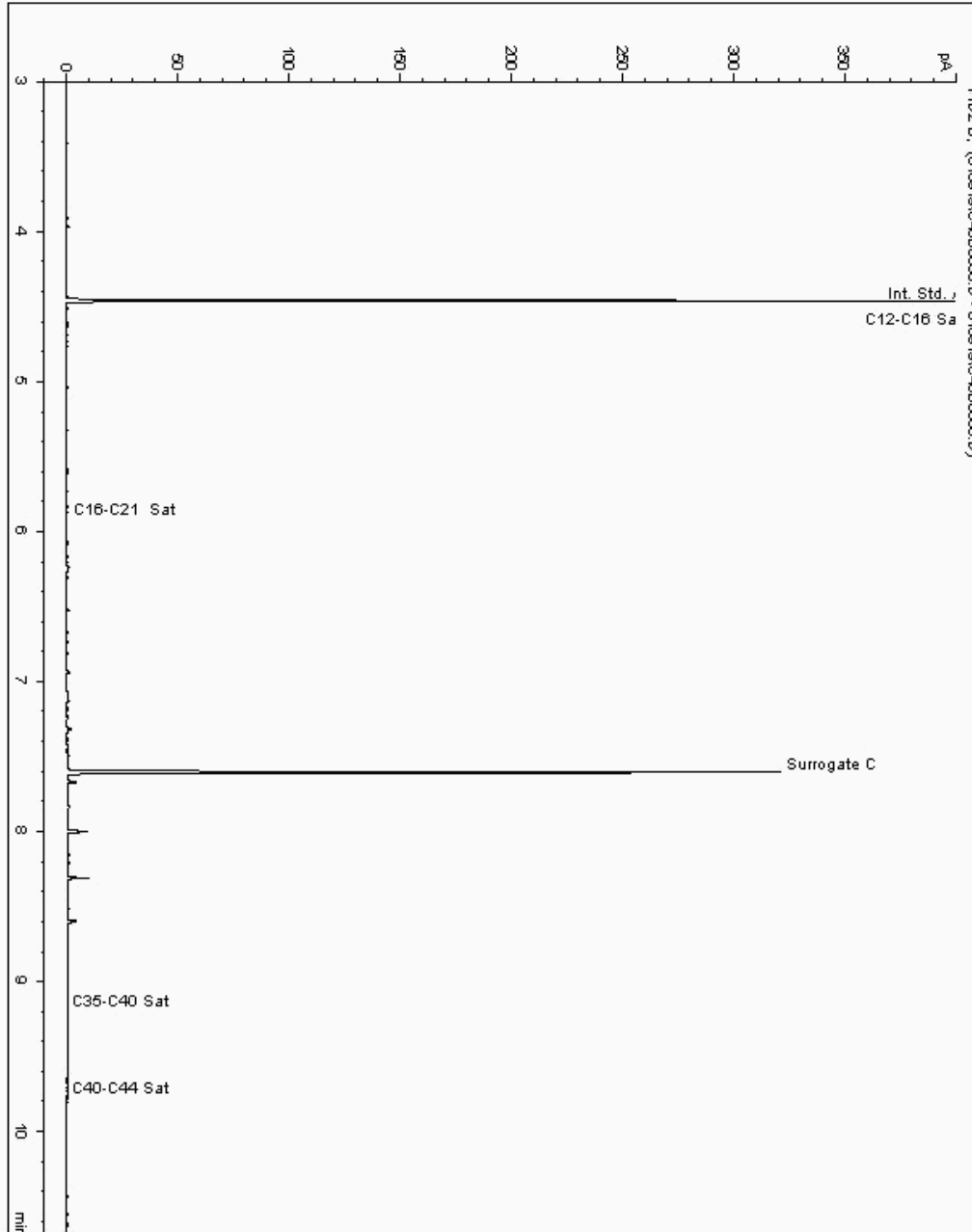
Analysis: EPH CWG (Aliphatic) GC (S)
19033300

Sample No :
Sample ID : BH215

19,033,300Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17882095-
Date Acquired : 09/01/2019 23:38:12 PM
Units : ppb
Dilution: BH215[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

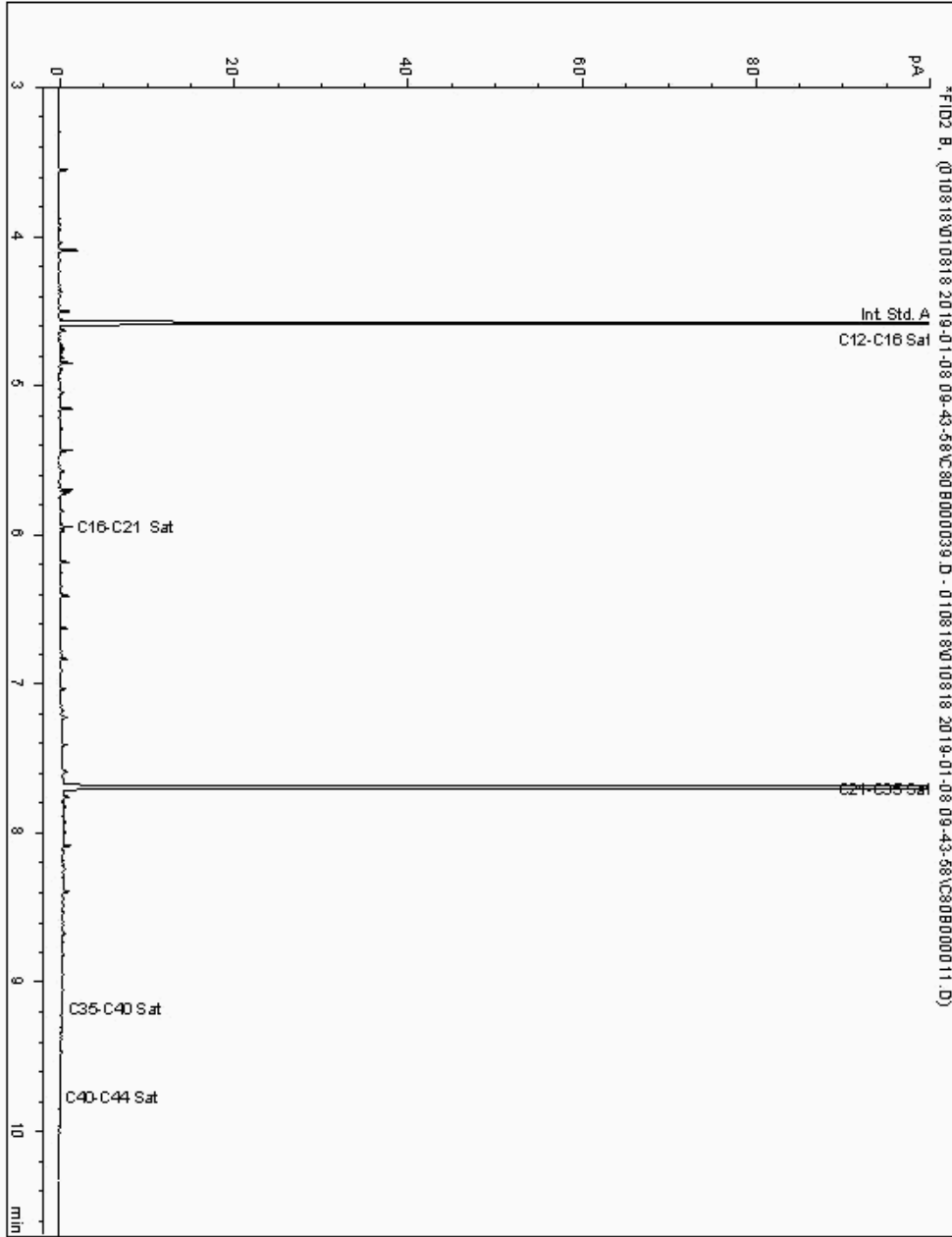
Analysis: EPH CWG (Aliphatic) GC (S)
19033395

Sample No :
Sample ID : BH217

19,033,395Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881560-
Date Acquired : 08/01/19 20:26:40
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

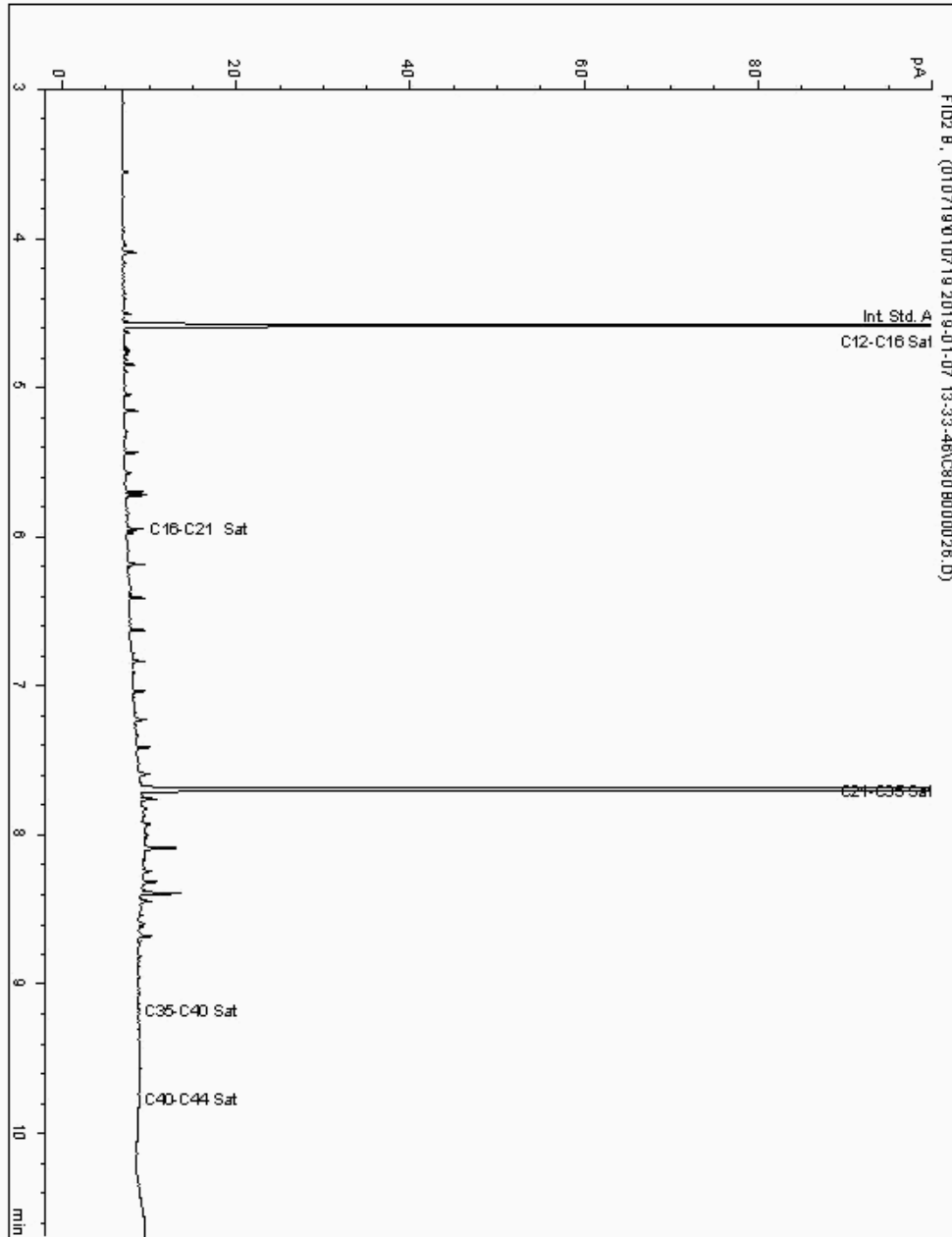
Analysis: EPH CWG (Aliphatic) GC (S)
19033640

Sample No :
Sample ID : BH215

19,033,640Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881308-
Date Acquired : 07/01/19 21:47:36
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

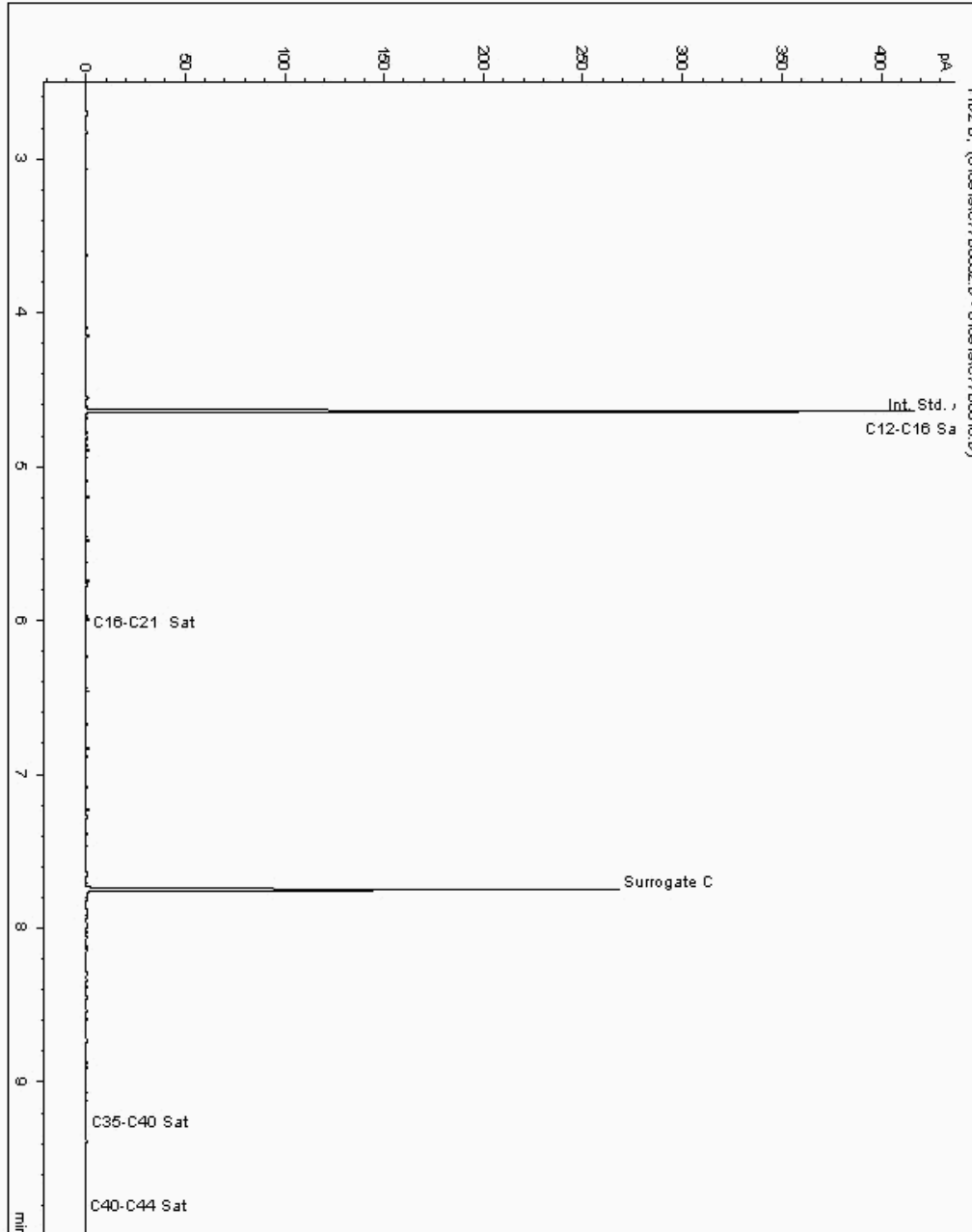
Analysis: EPH CWG (Aliphatic) GC (S)
19033688

Sample No :
Sample ID : BH217

19,033,688Depth : 12.50 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881186-
Date Acquired : 1/9/2019 4:20:59 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

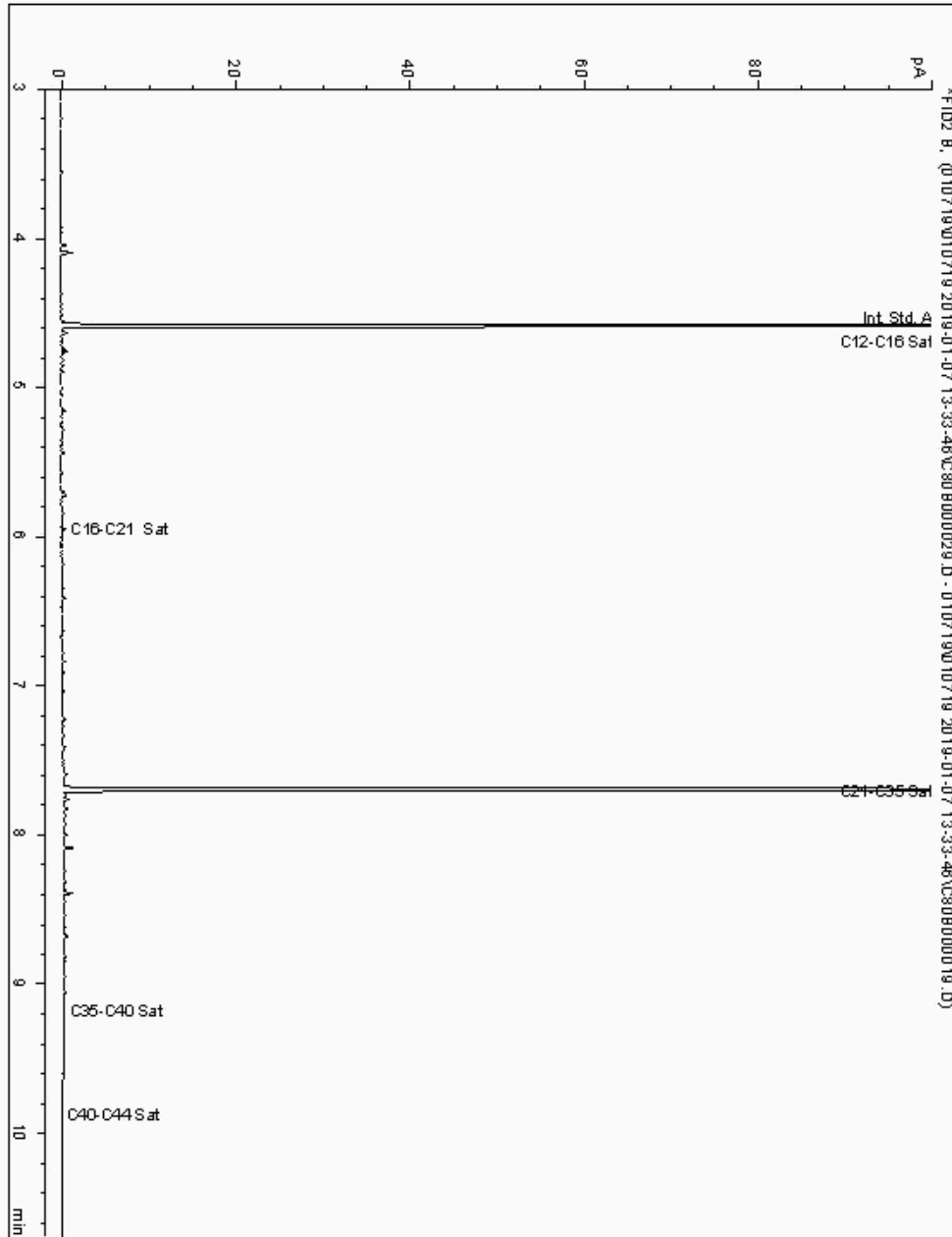
Analysis: EPH CWG (Aliphatic) GC (S)
19033739

Sample No :
Sample ID : BH216

19,033,739Depth : 9.00 - 11.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881537-
Date Acquired : 07/01/19 22:31:41
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

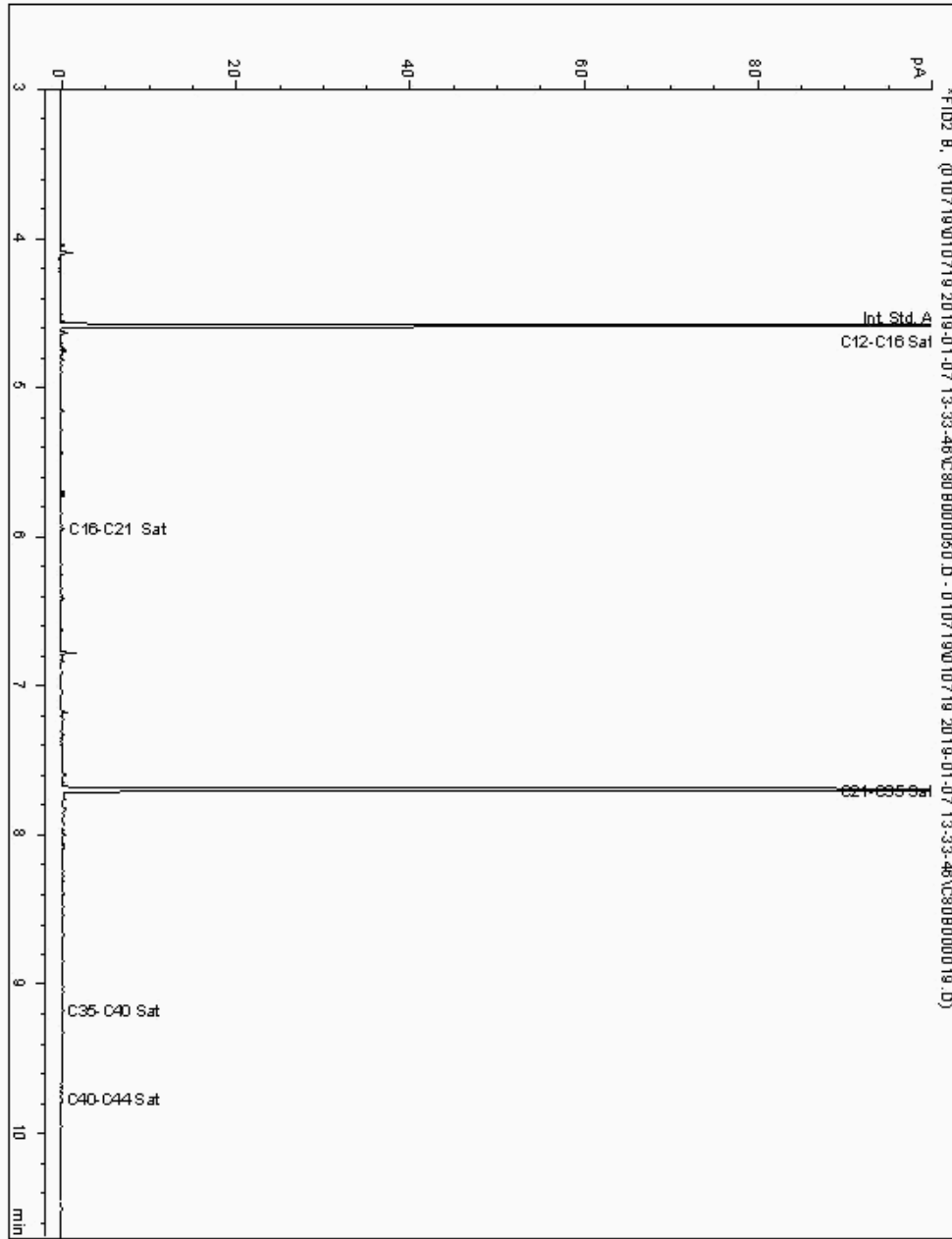
Analysis: EPH CWG (Aliphatic) GC (S)
19033785

Sample No :
Sample ID : BH214

19,033,785Depth : 8.00 - 9.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881422-
Date Acquired : 08/01/19 04:11:49
Units : ppb
Dilution :
CF : 1
Multiplier : 1.050





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

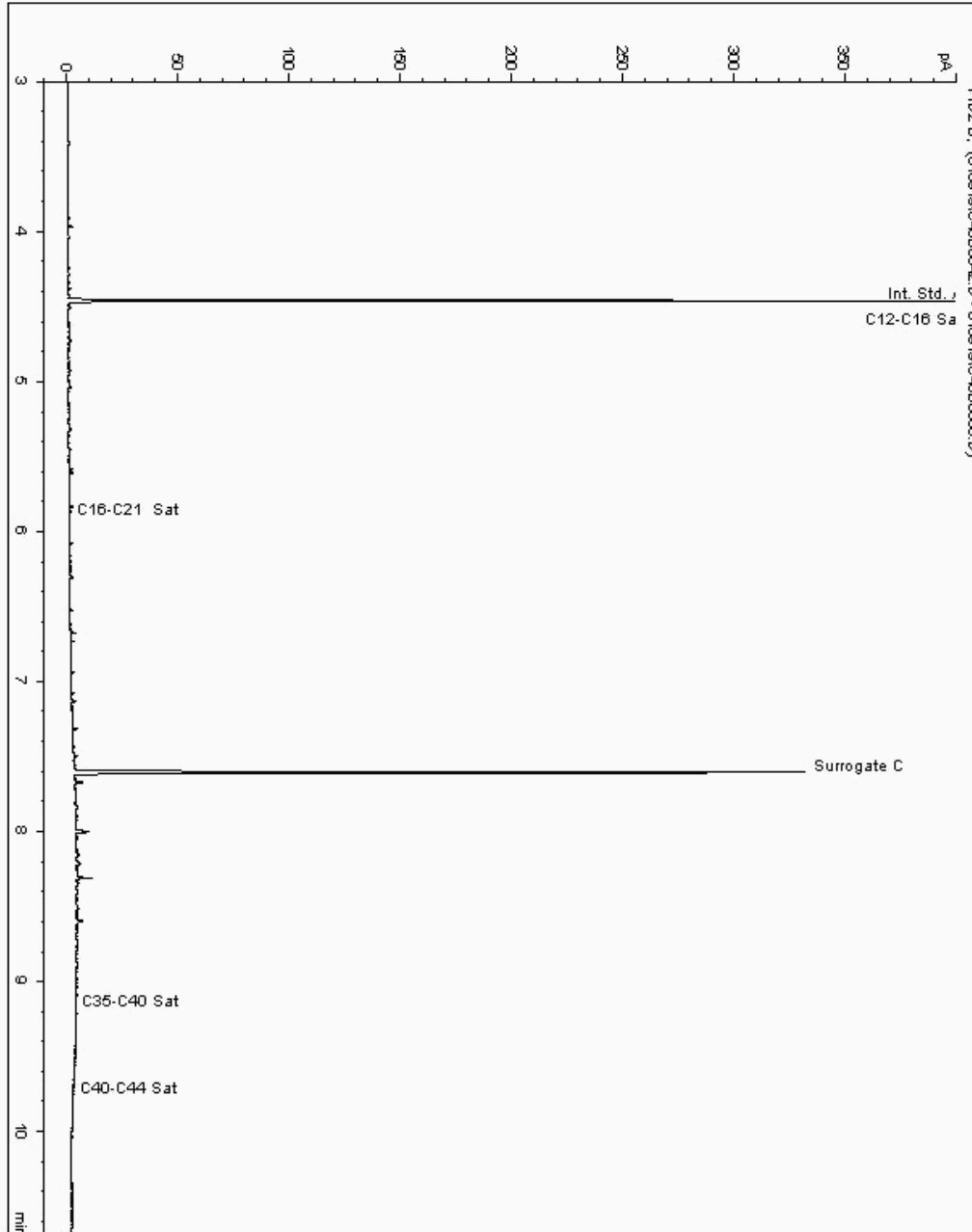
Analysis: EPH CWG (Aliphatic) GC (S)
19033804

Sample No :
Sample ID : BH215

19,033,804Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881261-
Date Acquired : 10/01/2019 03:11:41 PM
Units : ppb
Dilution: BH215[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

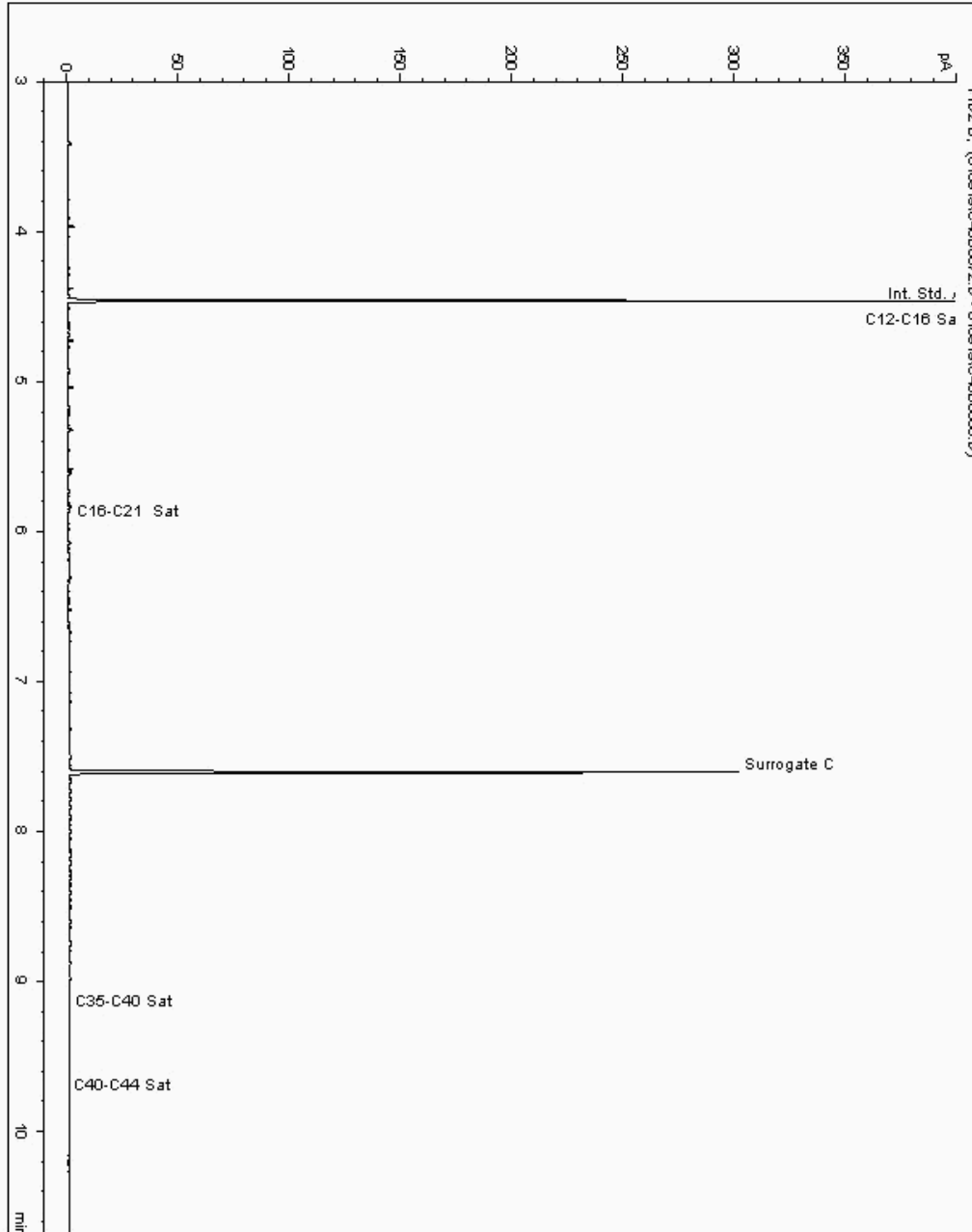
Analysis: EPH CWG (Aliphatic) GC (S)
19033810

Sample No :
Sample ID : BH214

19,033,810 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881354-
Date Acquired : 10/01/2019 11:27:55 PM
Units : ppb
Dilution: BH214[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

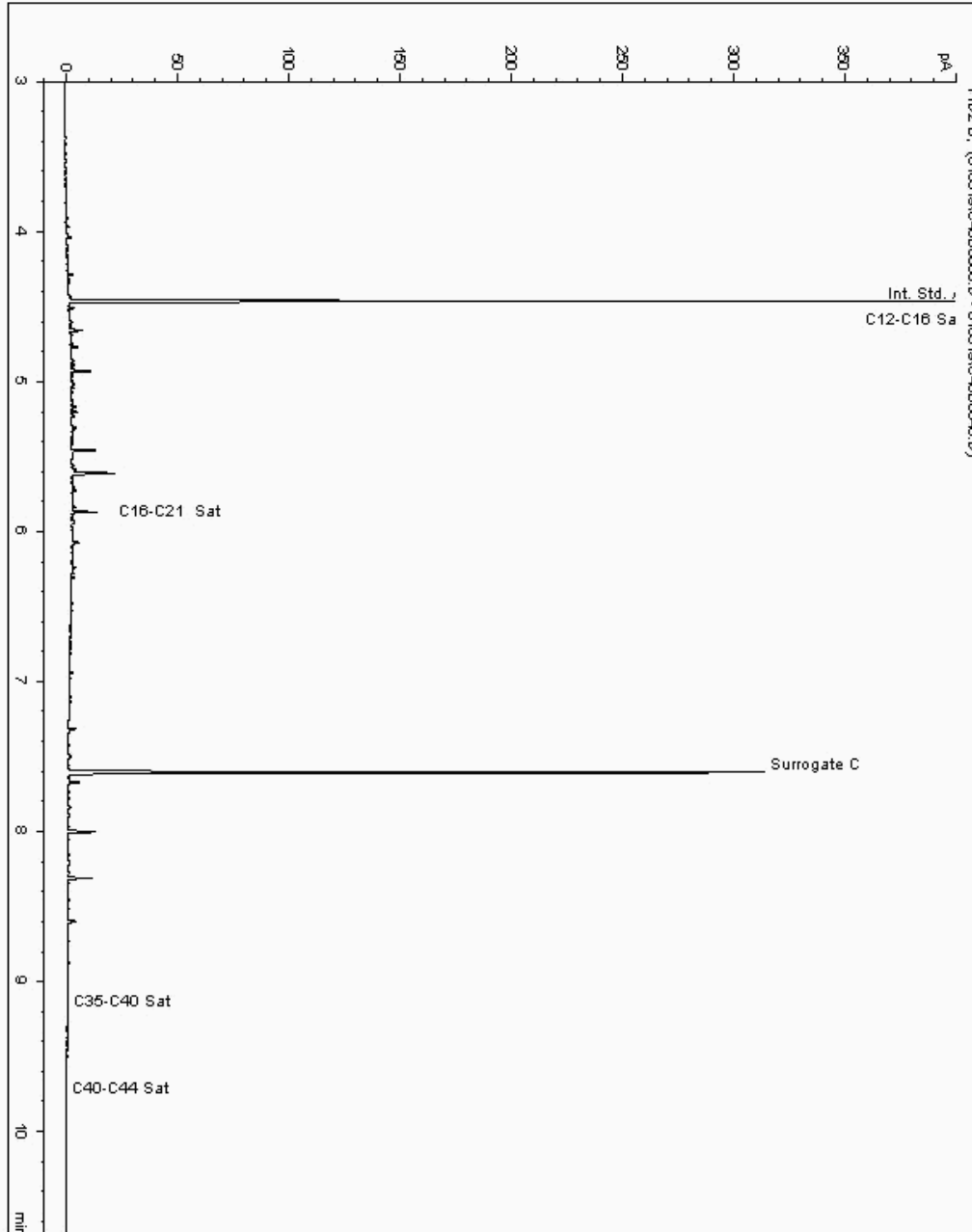
Analysis: EPH CWG (Aliphatic) GC (S)
19034236

Sample No :
Sample ID : BH217

19,034,236Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17882072-
Date Acquired : 07/01/2019 20:27:51 PM
Units : ppb
Dilution: BH217[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

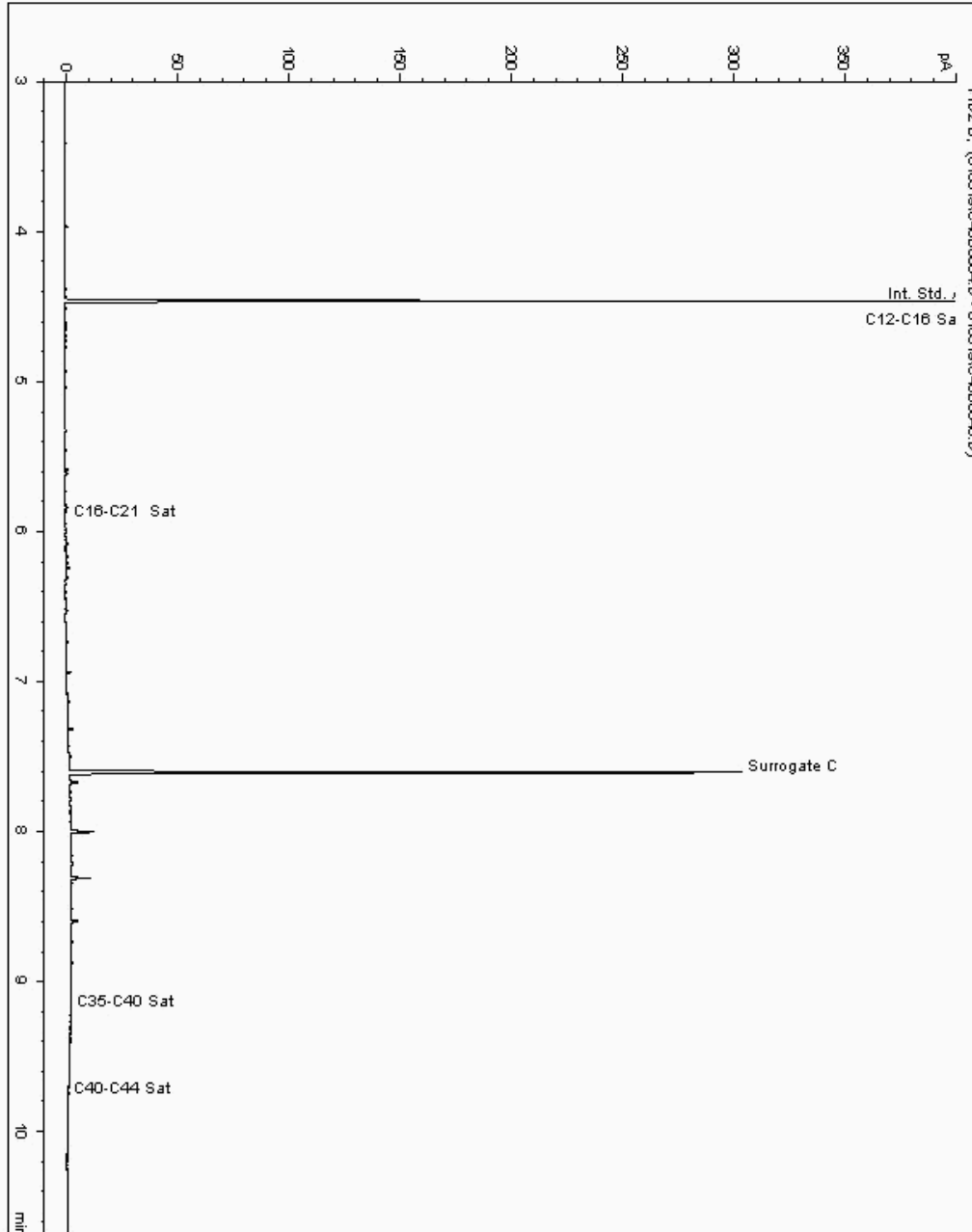
Analysis: EPH CWG (Aliphatic) GC (S)
19034276

Sample No :
Sample ID : BH215

19,034,276Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881283-
Date Acquired : 07/01/2019 21:32:17 PM
Units : ppb
Dilution: BH215[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

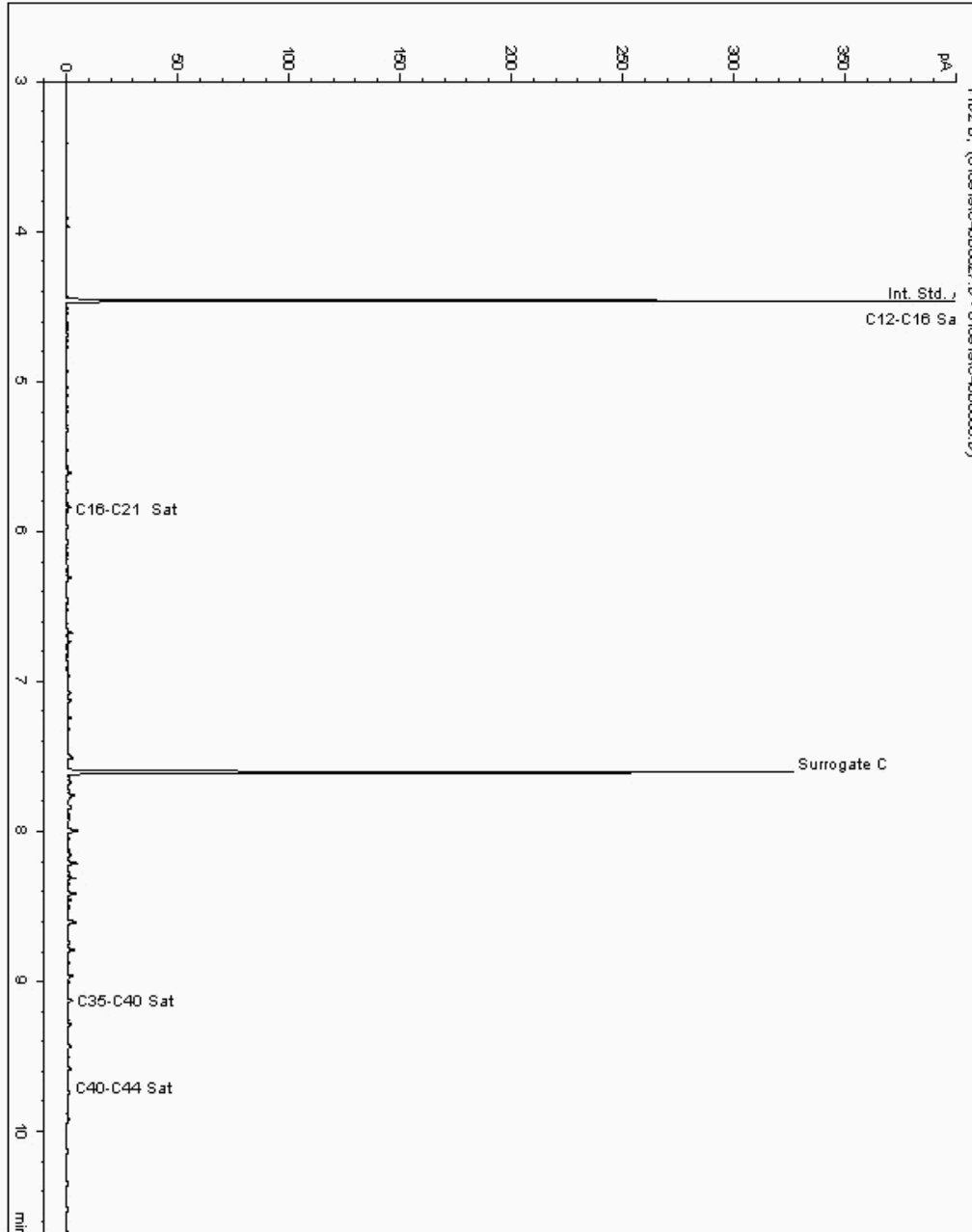
Analysis: EPH CWG (Aliphatic) GC (S)
19034296

Sample No :
Sample ID : BH217

19,034,296Depth :6.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17882001-
Date Acquired : 09/01/2019 22:38:14 PM
Units : ppb
Dilution: BH217[6.00 - 8.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

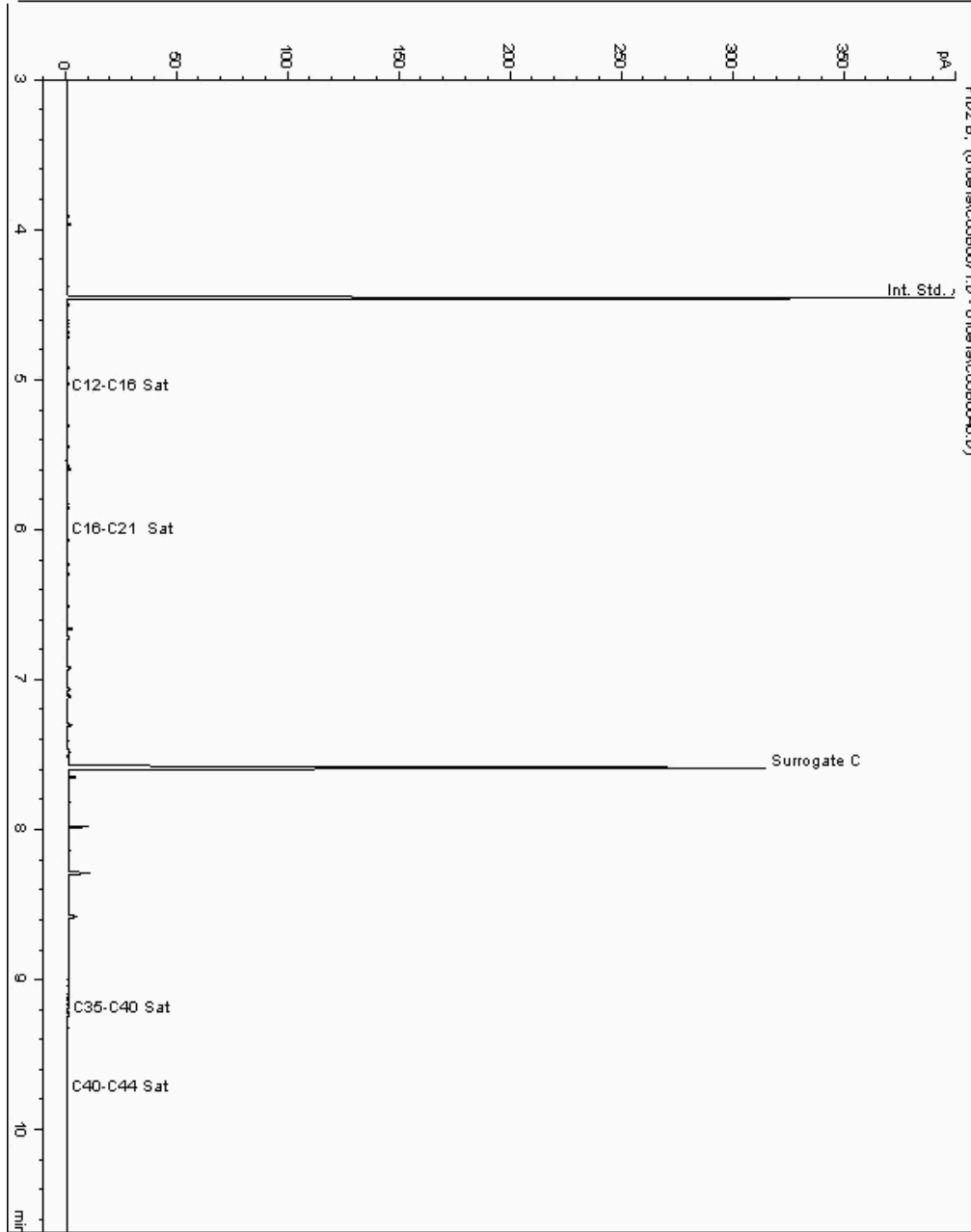
Analysis: EPH CWG (Aliphatic) GC (S)
19034320

Sample No :
Sample ID : BH215

19,034,320Depth :3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17881212-
Date Acquired : 10/01/2019 08:46:27 PM
Units : ppb
Dilution: BH215[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

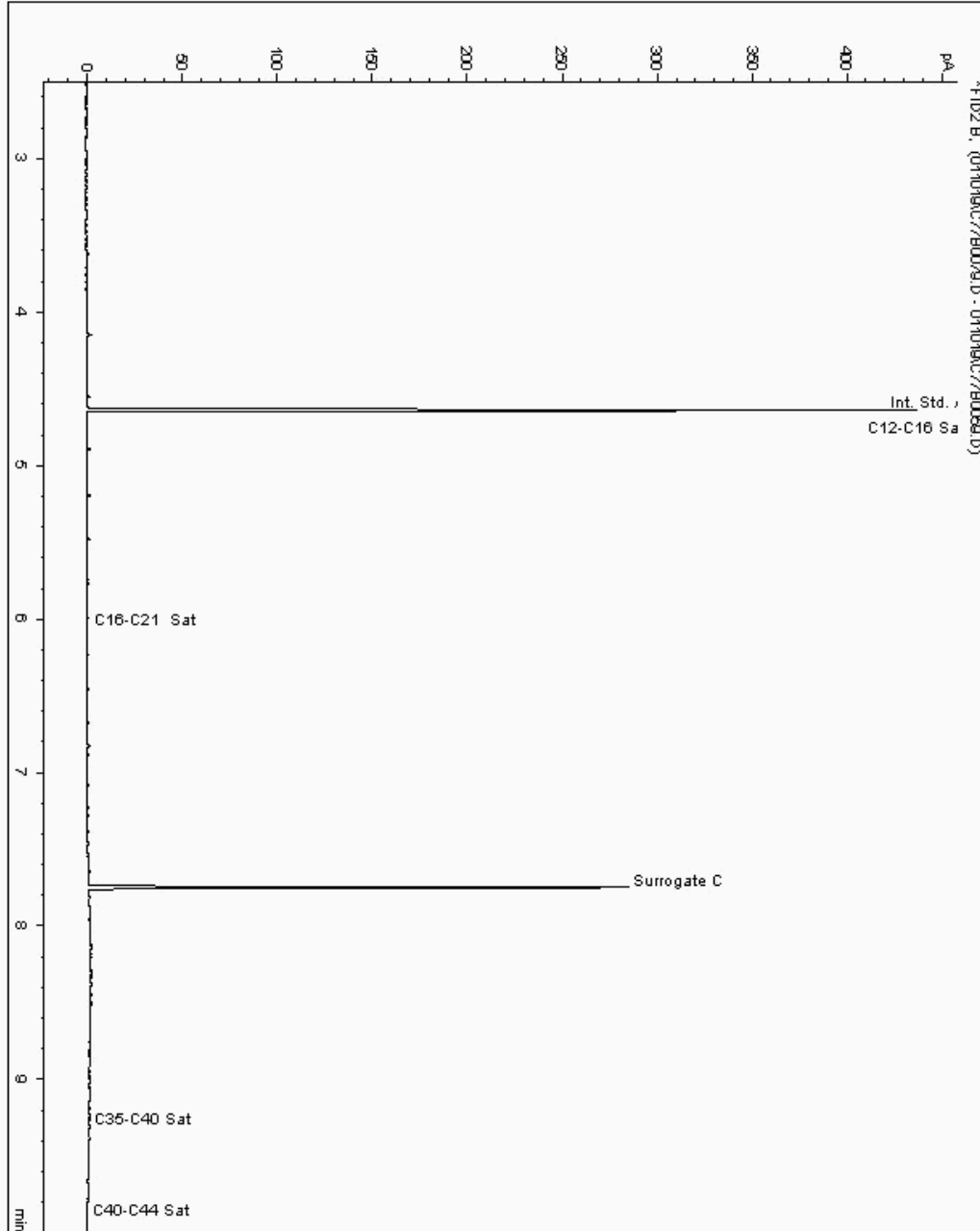
Analysis: EPH CWG (Aliphatic) GC (S)
19073888

Sample No :
Sample ID : BH214

19,073,888Depth :0.00 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17918562-
Date Acquired : 1/11/2019 3:06:12 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

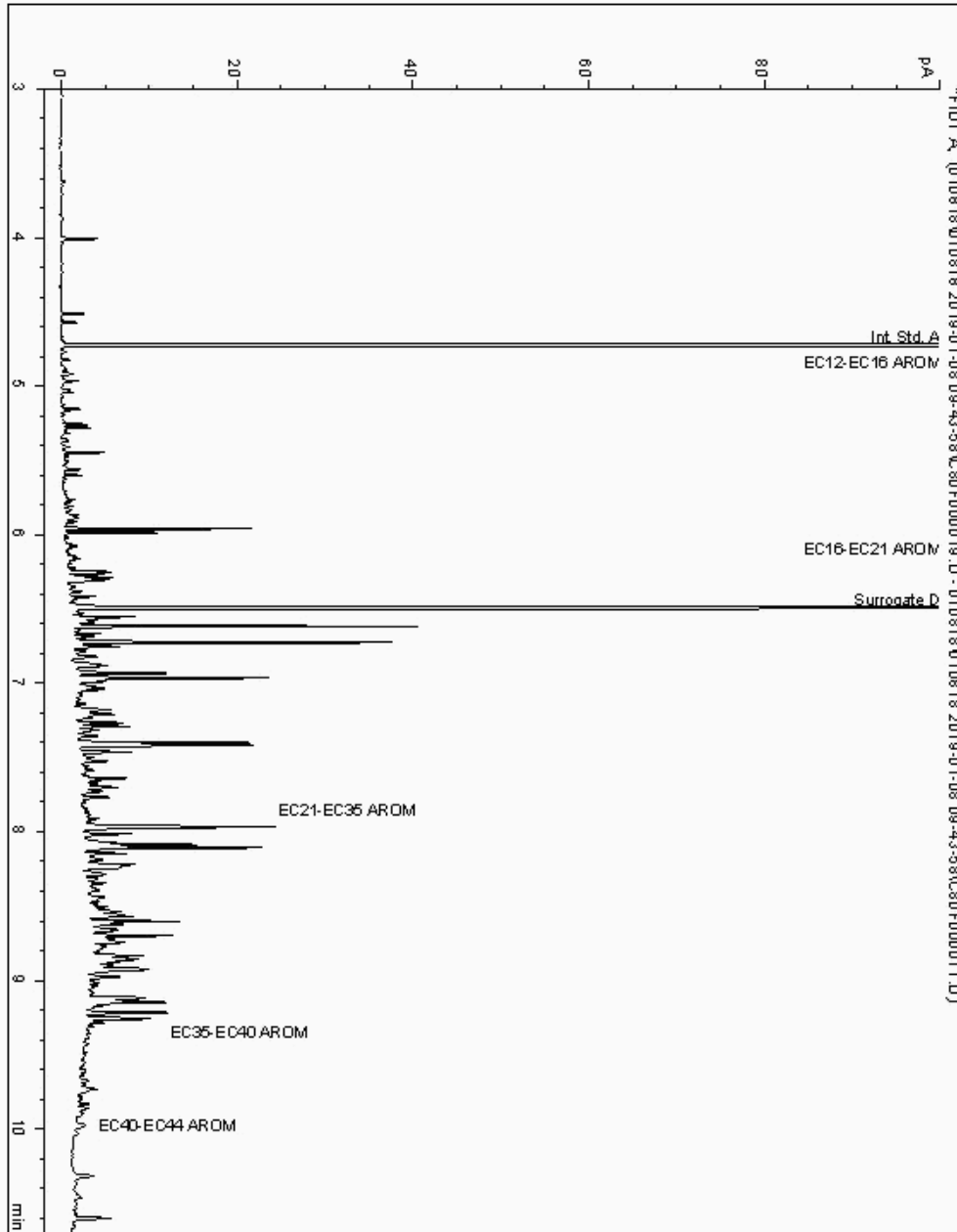
Analysis: EPH CWG (Aromatic) GC (S)
19031518

Sample No :
Sample ID : BH216

19,031,518 Depth : 0.50 - 1.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881886-
Date Acquired : 08/01/19 14:42:08
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

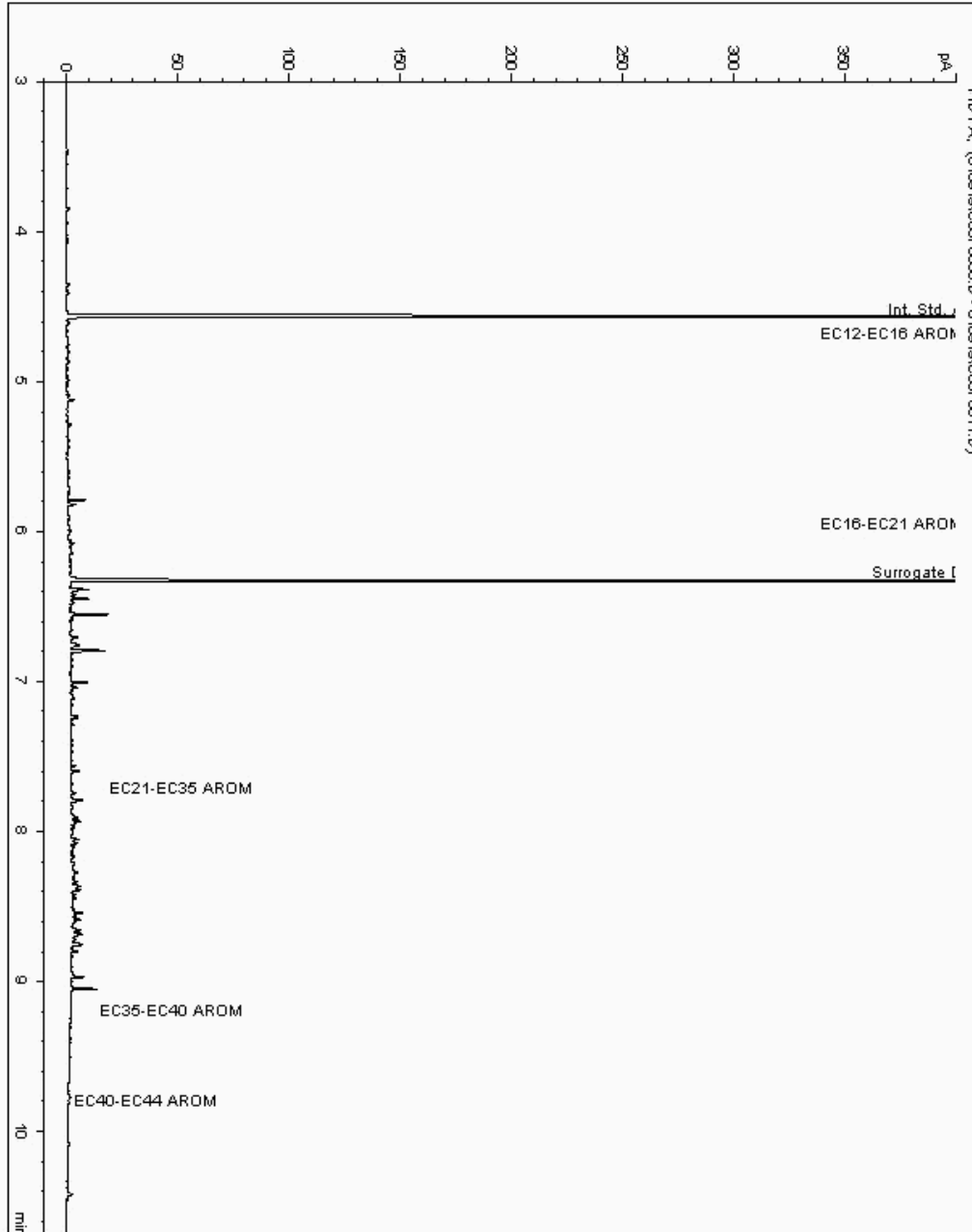
Analysis: EPH CWG (Aromatic) GC (S)
19031590

Sample No :
Sample ID : BH214

19,031,590Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881720-
Date Acquired : 09/01/2019 21:09:43 PM
Units : ppb
Dilution: BH214[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

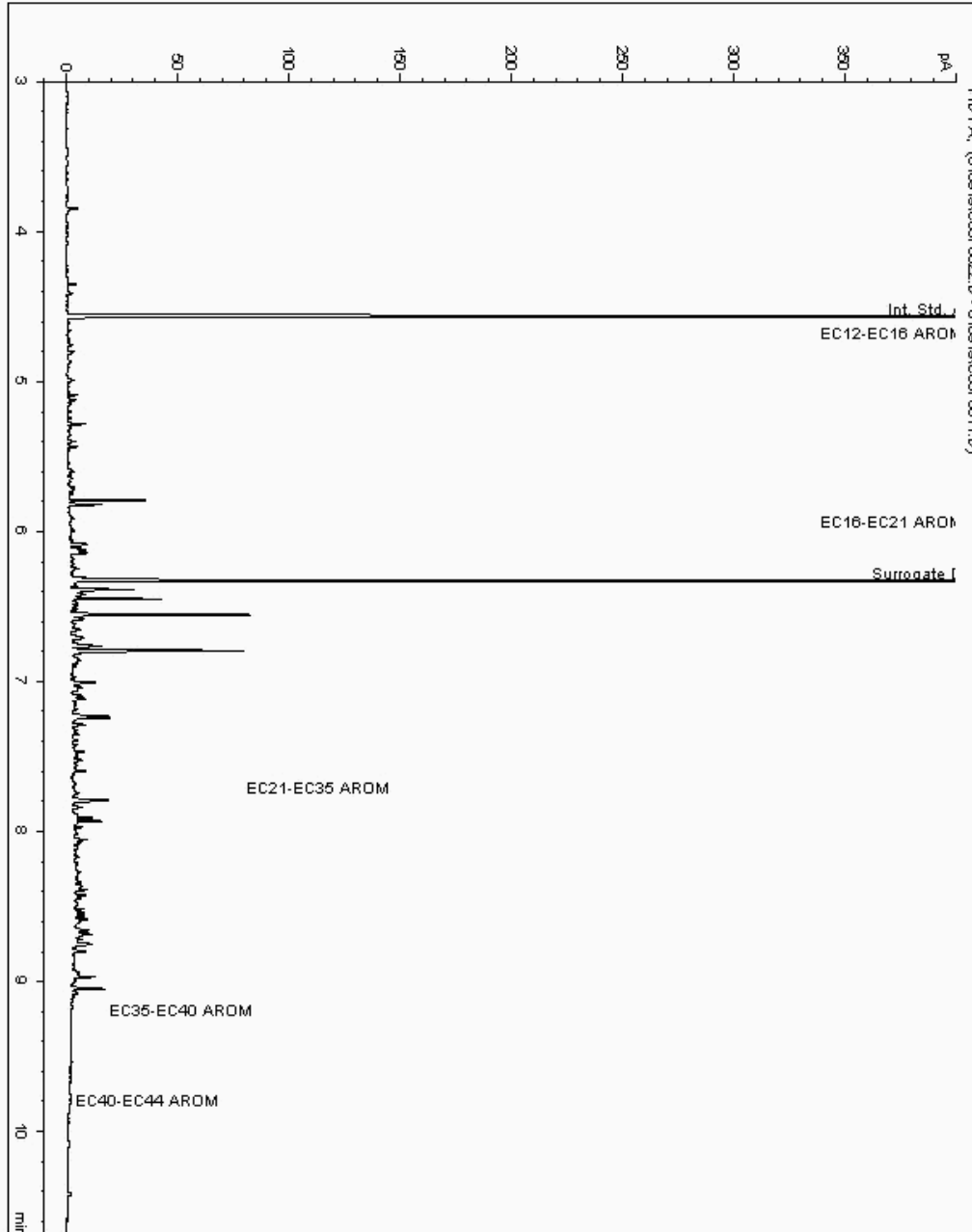
Analysis: EPH CWG (Aromatic) GC (S)
19031675

Sample No :
Sample ID : BH214

19,031,675 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881745-
Date Acquired : 09/01/2019 18:44:14 PM
Units : ppb
Dilution: BH214[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

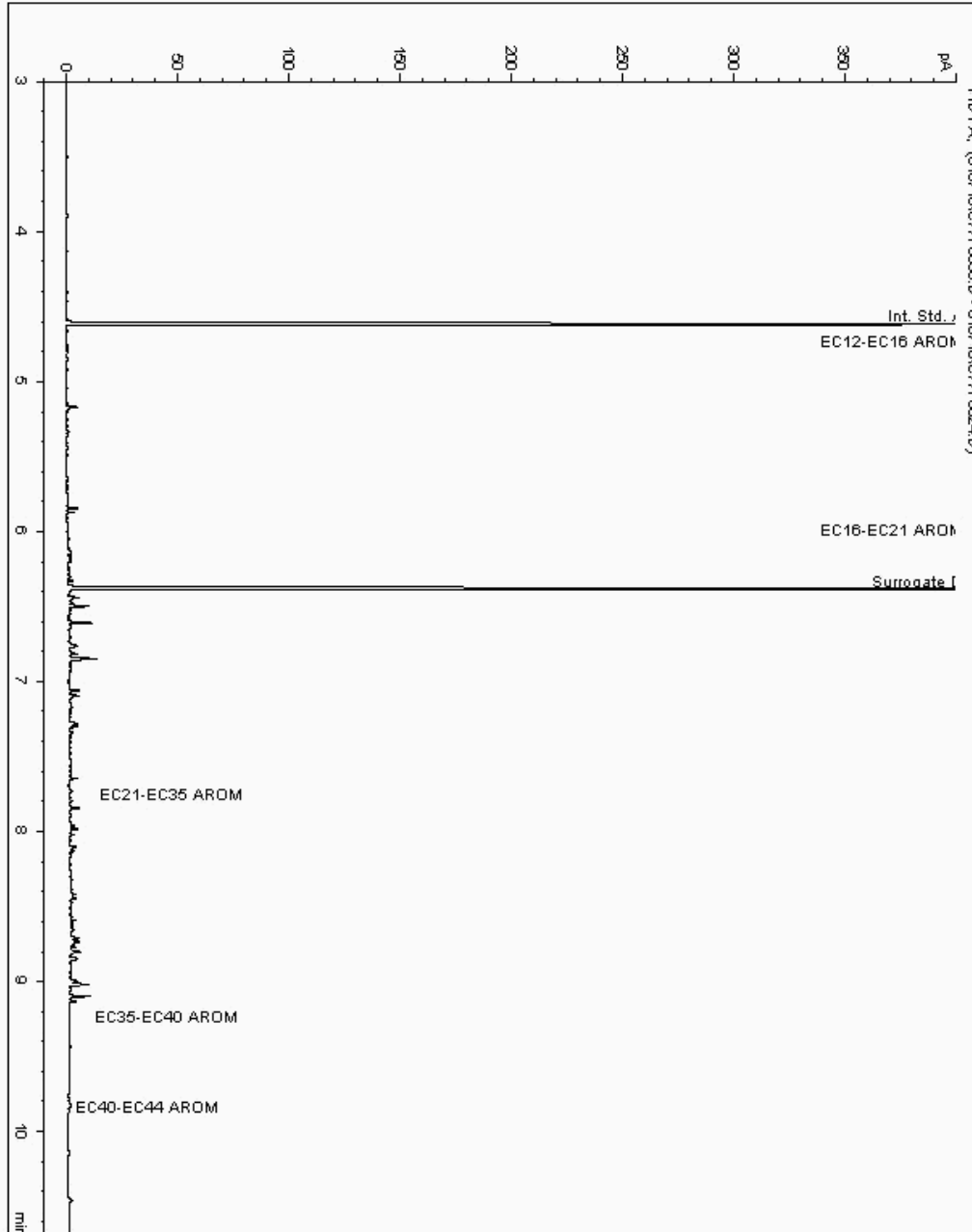
Analysis: EPH CWG (Aromatic) GC (S)
19031828

Sample No :
Sample ID : BH215

19,031,828 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881236-
Date Acquired : 1/7/2019 10:20:06 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

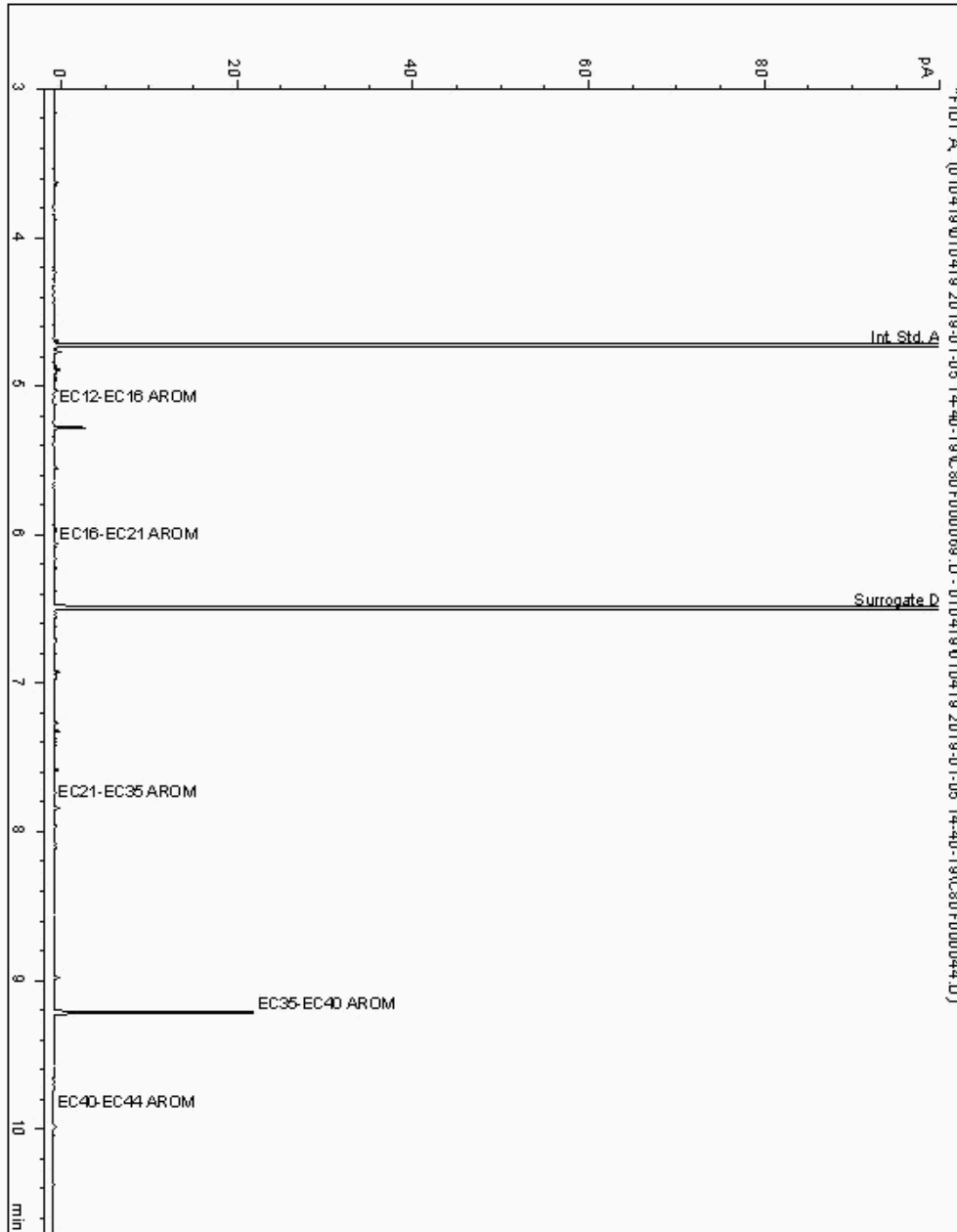
Analysis: EPH CWG (Aromatic) GC (S)
19031890

Sample No :
Sample ID : BH217

19,031,890 Depth : 10.00 - 12.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881584-
Date Acquired : 05/01/19 23:17:16
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

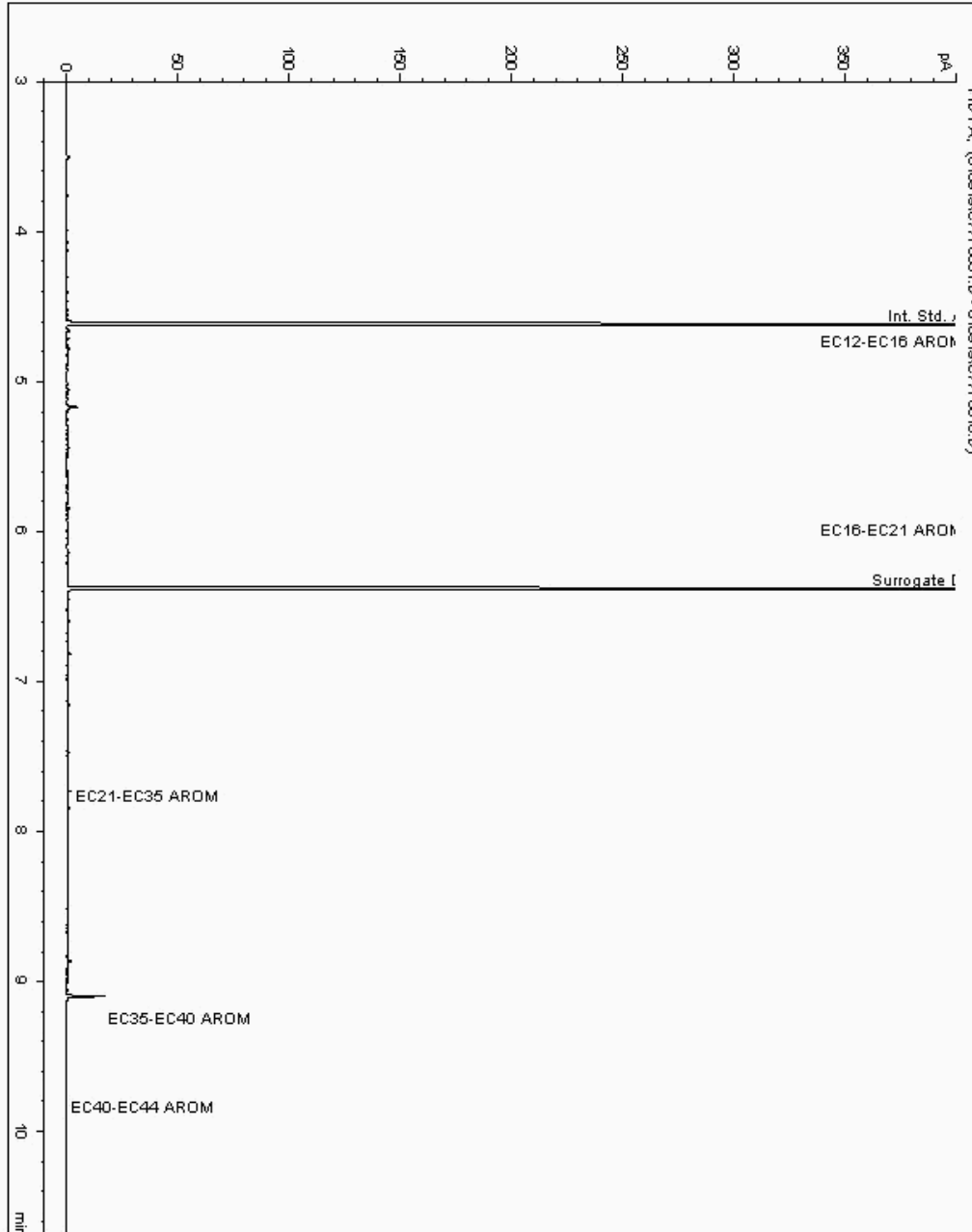
Analysis: EPH CWG (Aromatic) GC (S)
19031939

Sample No :
Sample ID : BH215

19,031,939Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881030-
Date Acquired : 1/9/2019 4:01:10 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

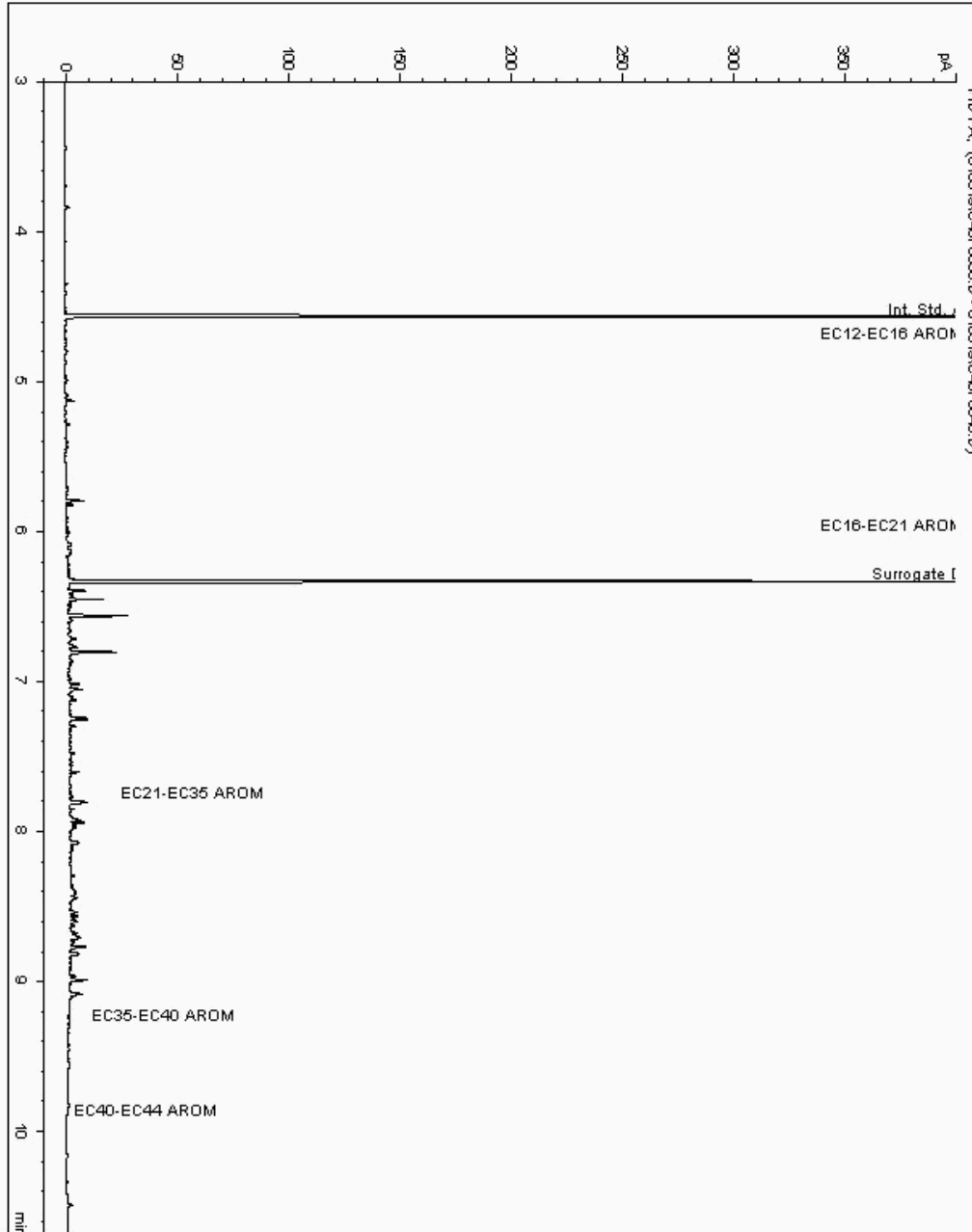
Analysis: EPH CWG (Aromatic) GC (S)
19031952

Sample No :
Sample ID : BH216

19,031,952Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881955-
Date Acquired : 07/01/2019 19:55:23 PM
Units : ppb
Dilution: BH216[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

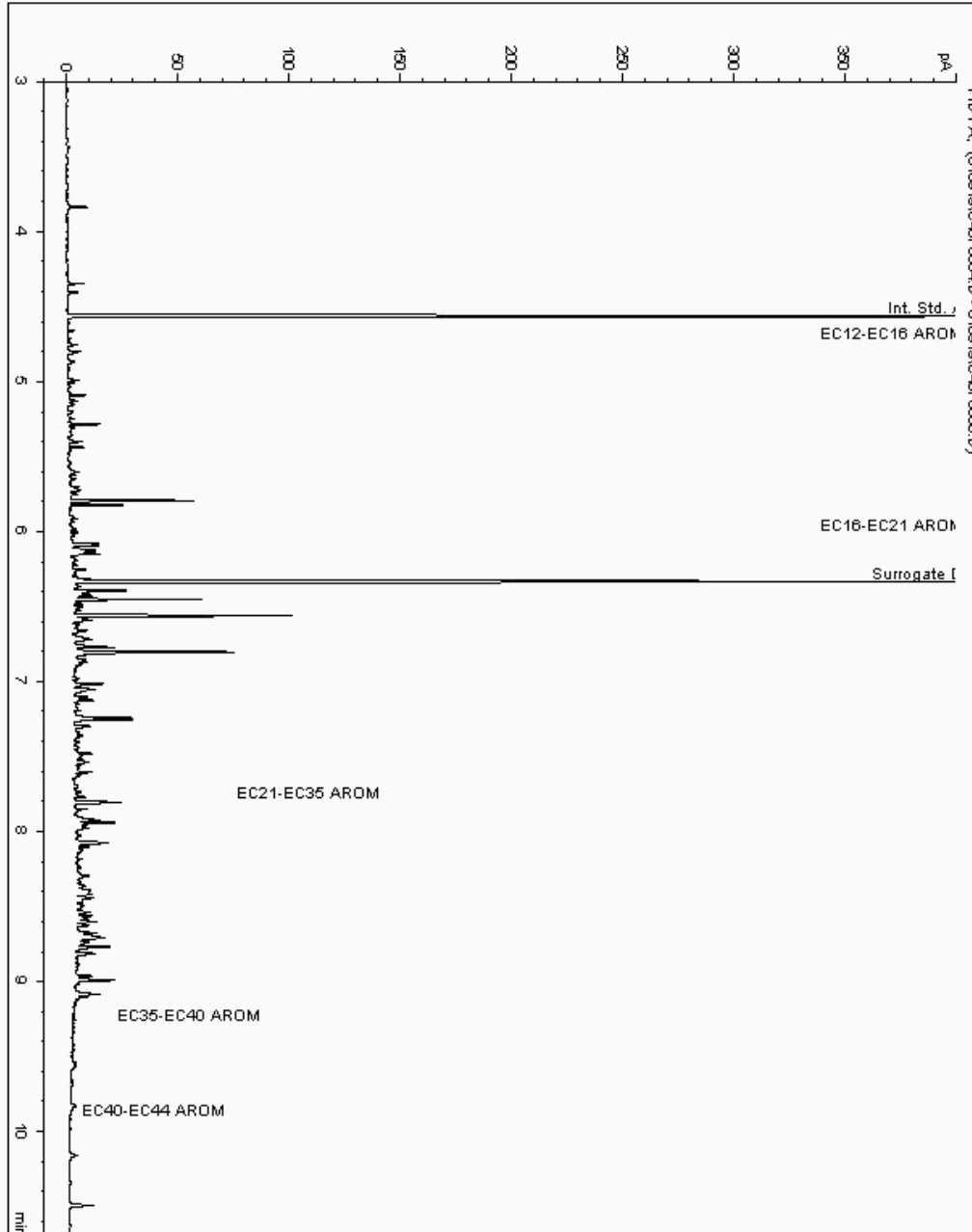
Analysis: EPH CWG (Aromatic) GC (S)
19032016

Sample No :
Sample ID : BH214

19,032,016Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881792-
Date Acquired : 10/01/2019 12:42:50 PM
Units : ppb
Dilution: BH214[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

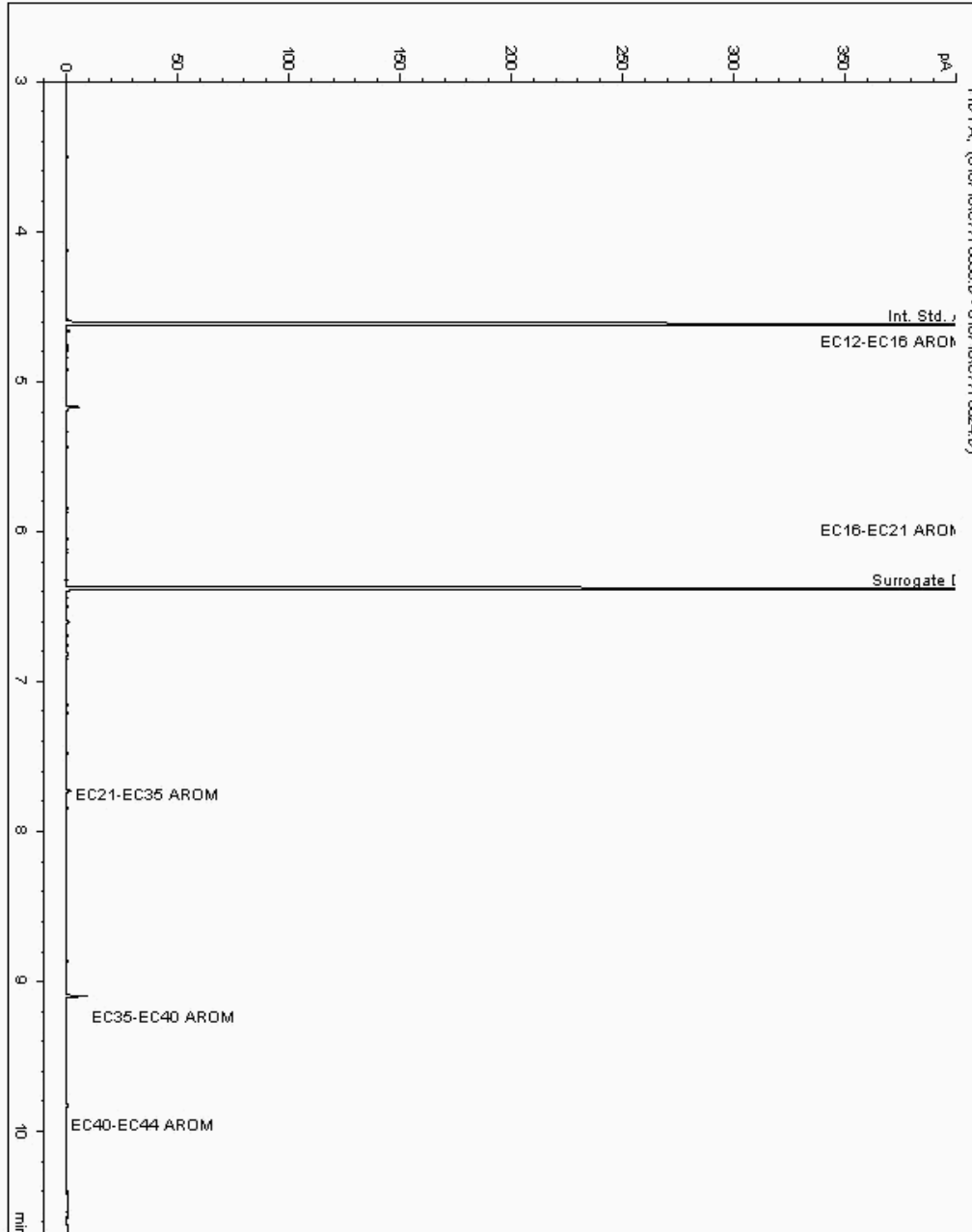
Analysis: EPH CWG (Aromatic) GC (S)
19032039

Sample No :
Sample ID : BH216

19,032,039Depth : 11.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17882119-
Date Acquired : 1/7/2019 10:51:54 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

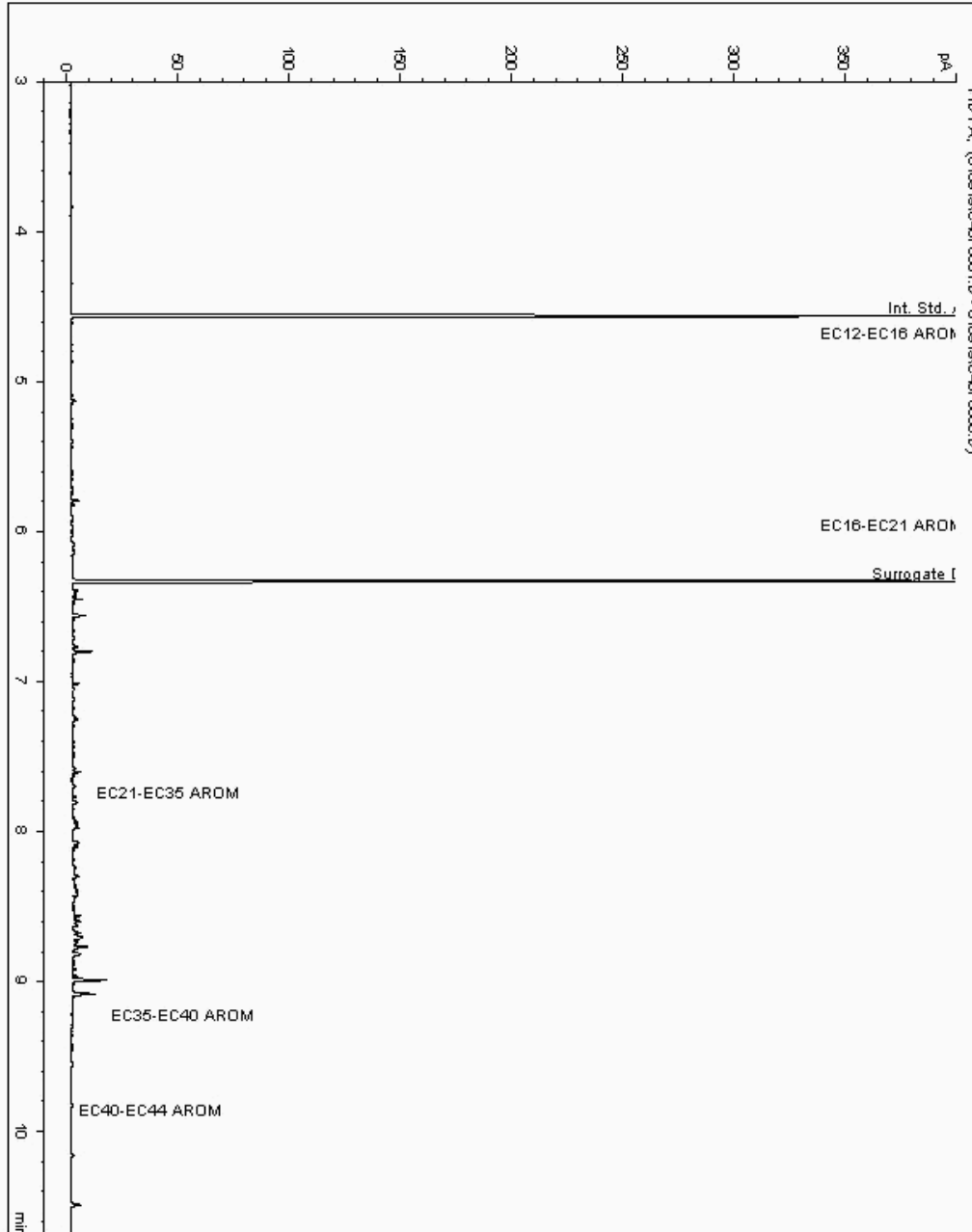
Analysis: EPH CWG (Aromatic) GC (S)
19032120

Sample No :
Sample ID : BH217

19,032,120Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881978-
Date Acquired : 10/01/2019 08:19:25 PM
Units : ppb
Dilution: BH217[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

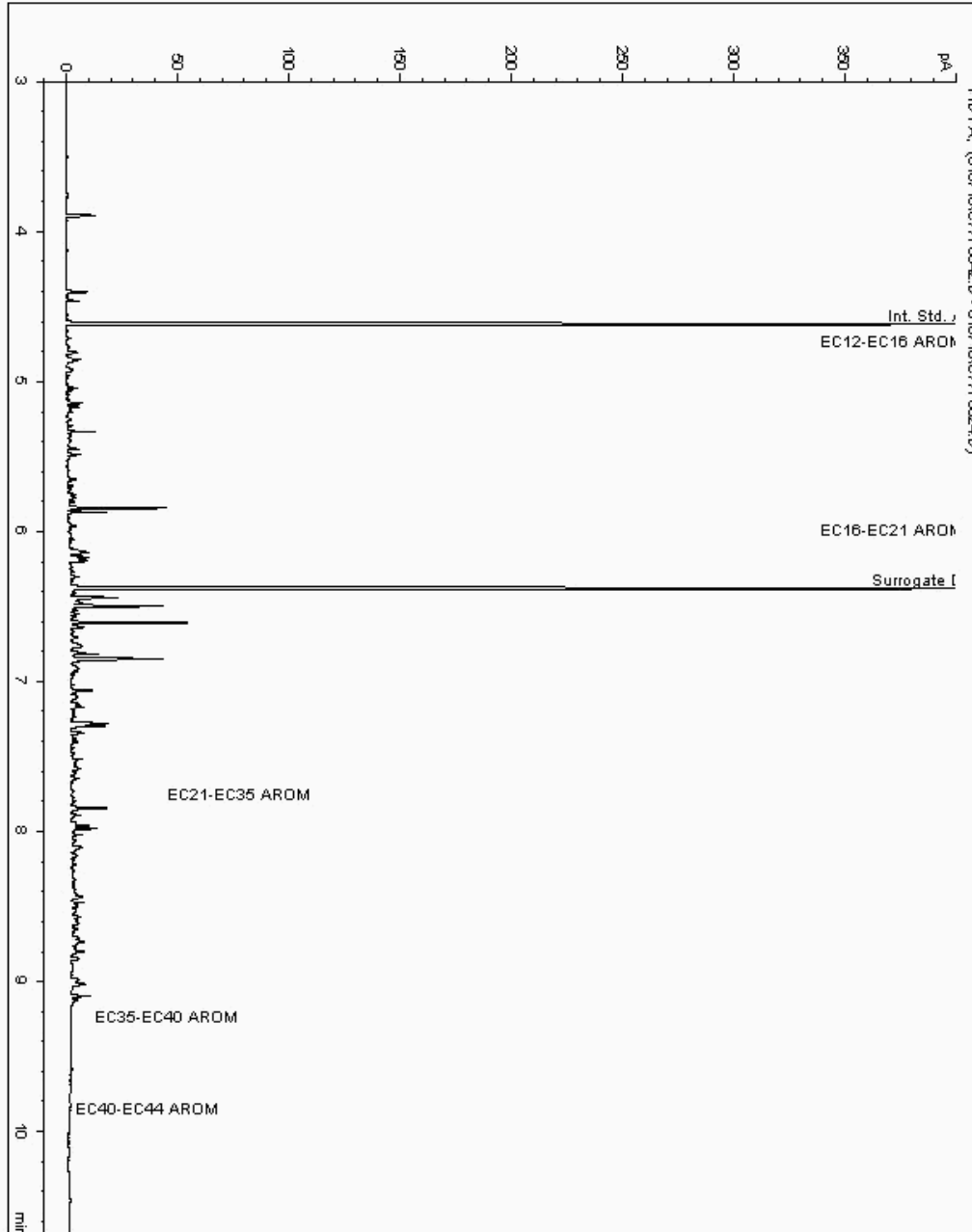
Analysis: EPH CWG (Aromatic) GC (S)
19032169

Sample No :
Sample ID : BH216

19,032,169 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881841-
Date Acquired : 1/8/2019 12:03:59 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

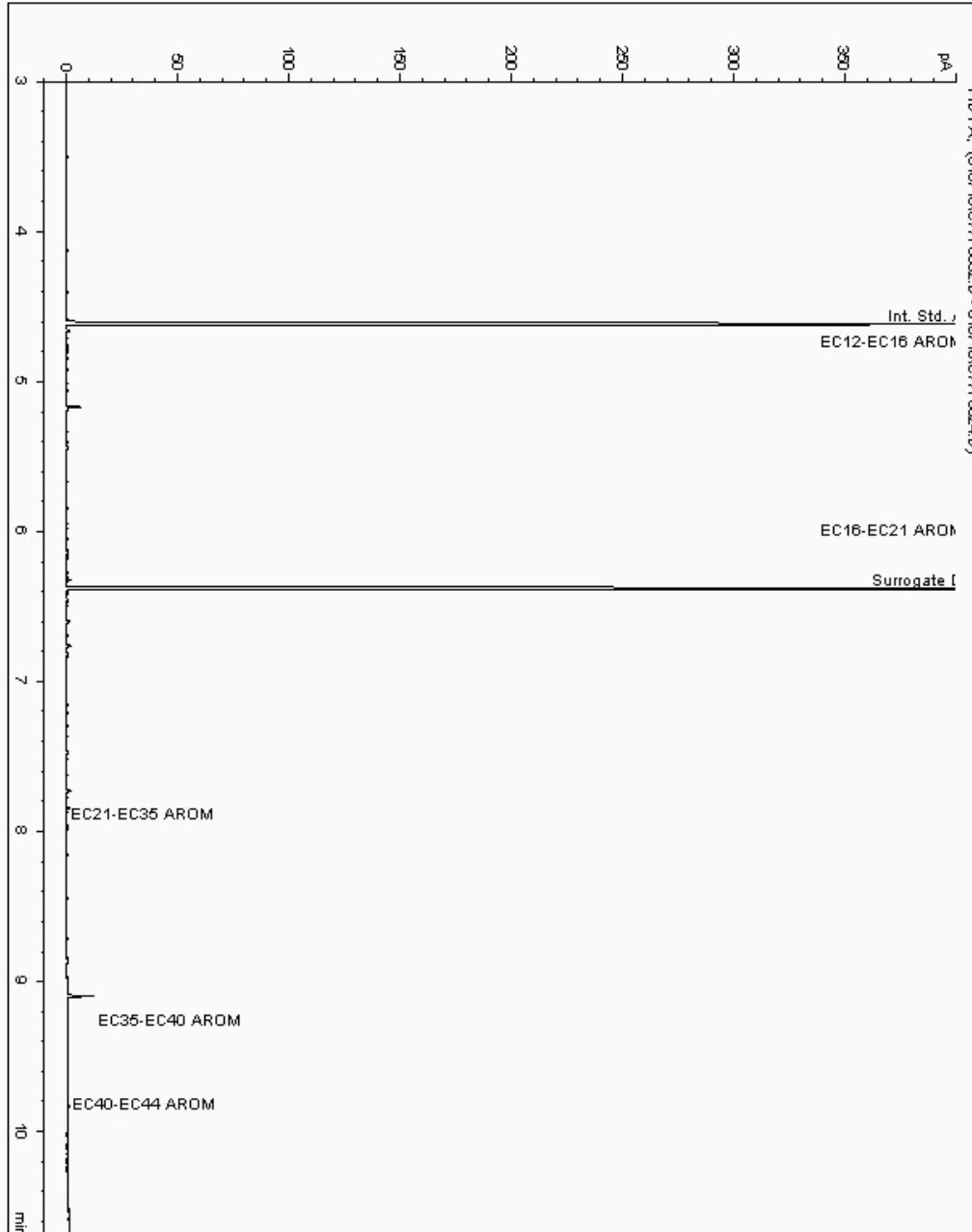
Analysis: EPH CWG (Aromatic) GC (S)
19032237

Sample No :
Sample ID : BH215

19,032,237Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881052-
Date Acquired : 1/7/2019 9:00:38 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

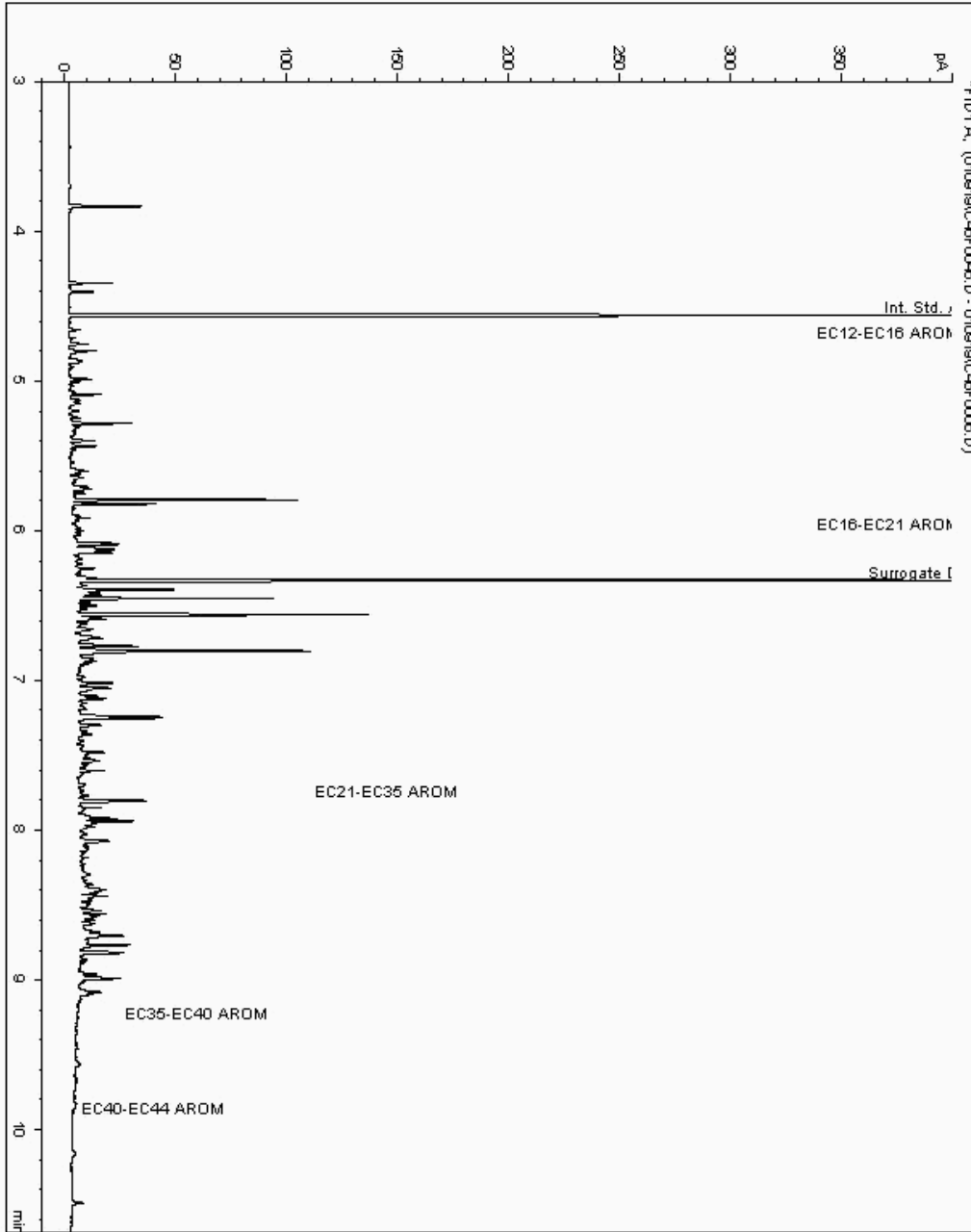
Analysis: EPH CWG (Aromatic) GC (S)
19032240

Sample No :
Sample ID : BH216

19,032,240Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881863-
Date Acquired : 10/01/2019 03:55:42 PM
Units : ppb
Dilution: BH216[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

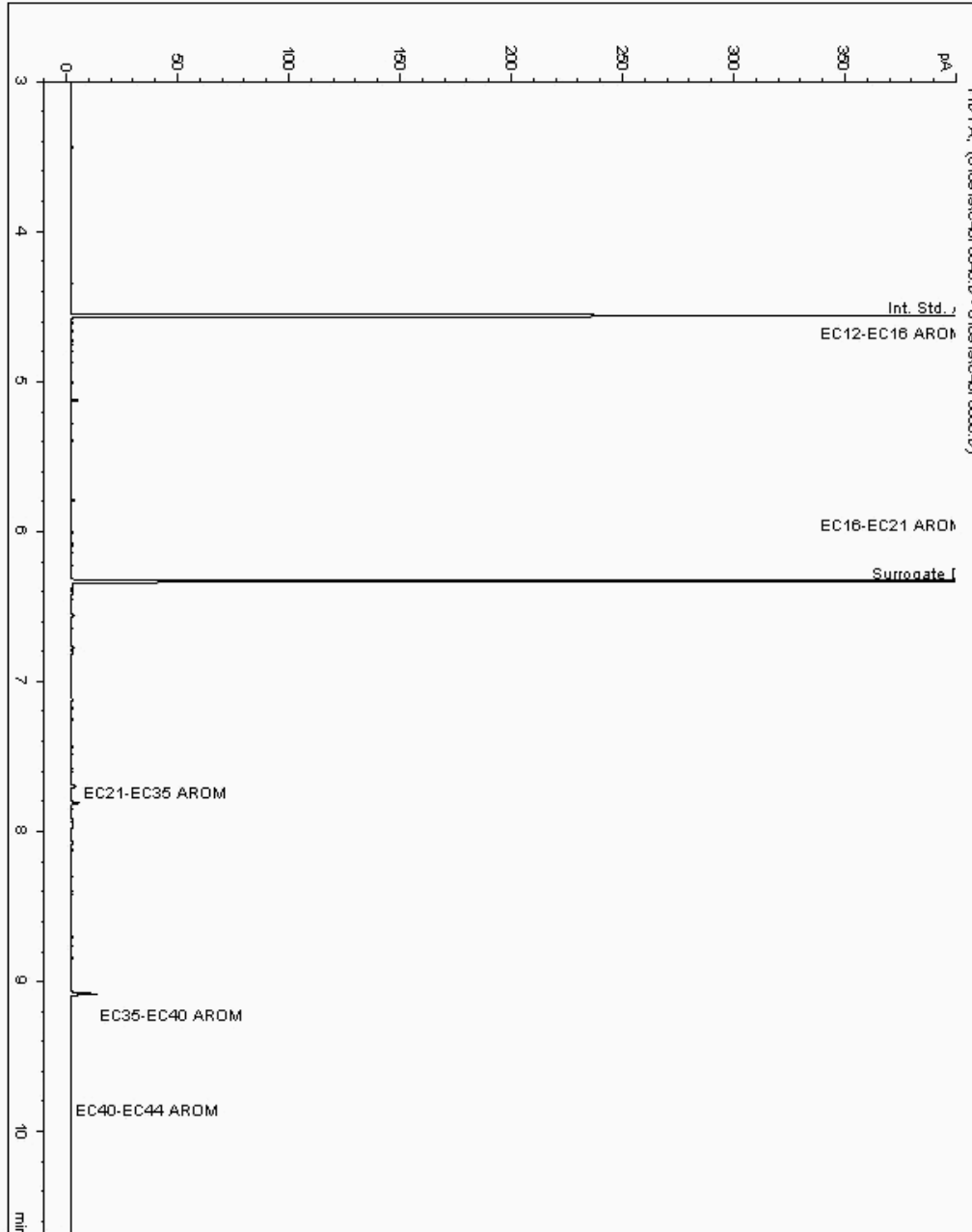
Analysis: EPH CWG (Aromatic) GC (S)
19032243

Sample No :
Sample ID : BH216

19,032,243Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881141-
Date Acquired : 10/01/2019 04:39:22 PM
Units : ppb
Dilution: BH216[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

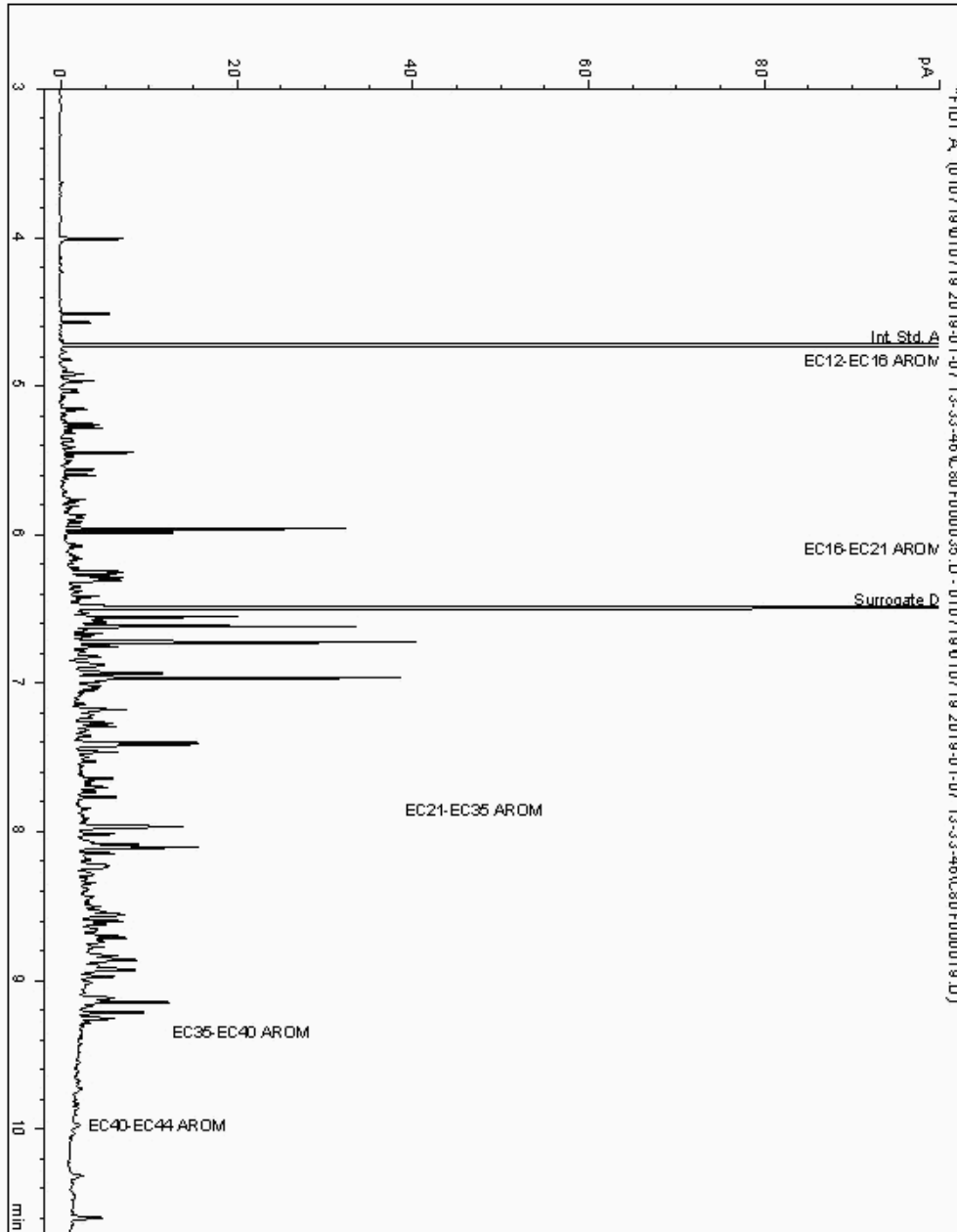
Analysis: EPH CWG (Aromatic) GC (S)
19032324

Sample No :
Sample ID : BH216

19,032,324Depth :6.00 - 8.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881909-
Date Acquired : 08/01/19 00:07:49
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

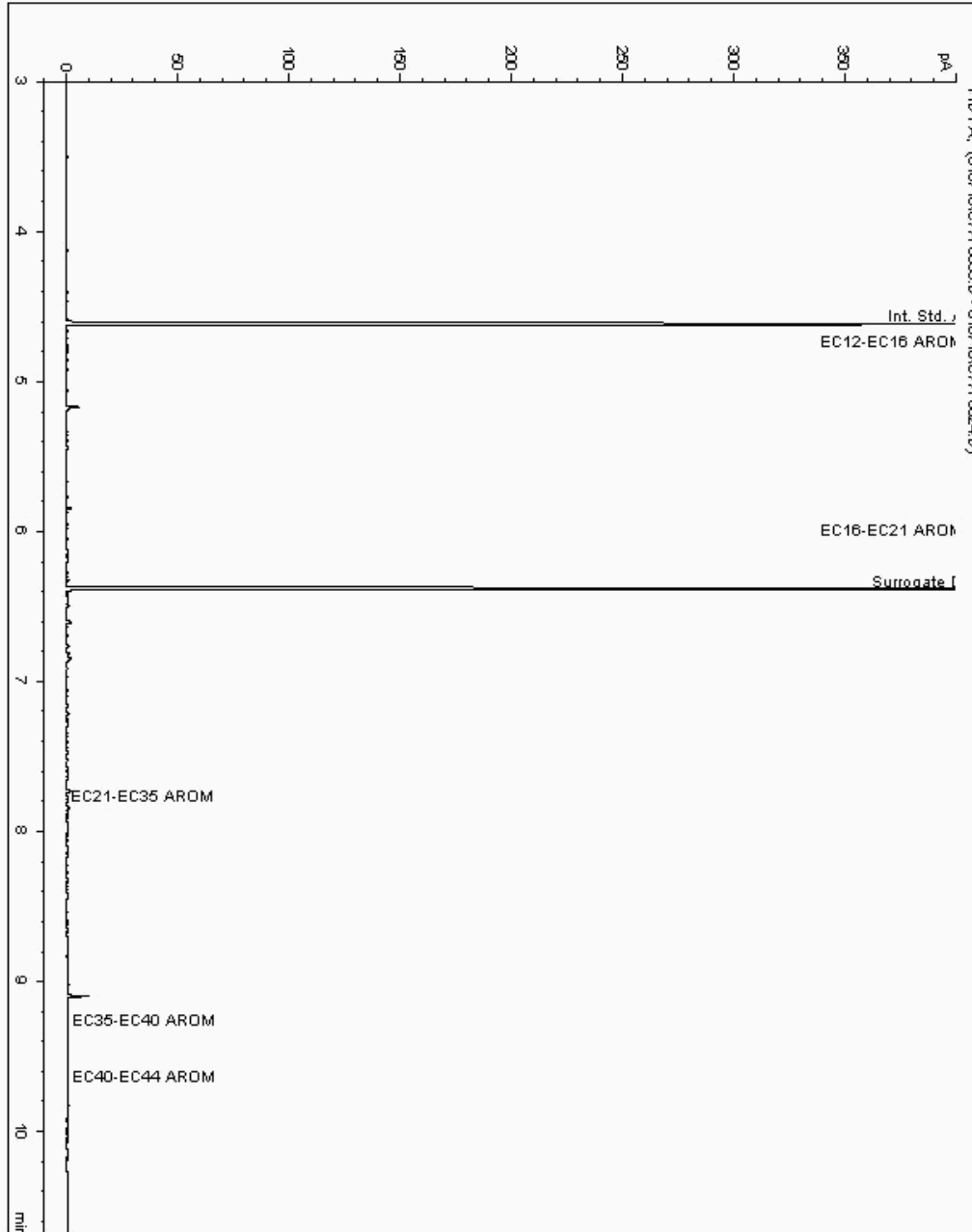
Analysis: EPH CWG (Aromatic) GC (S)
19032368

Sample No :
Sample ID : BH217

19,032,368Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881628-
Date Acquired : 1/7/2019 10:00:13 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

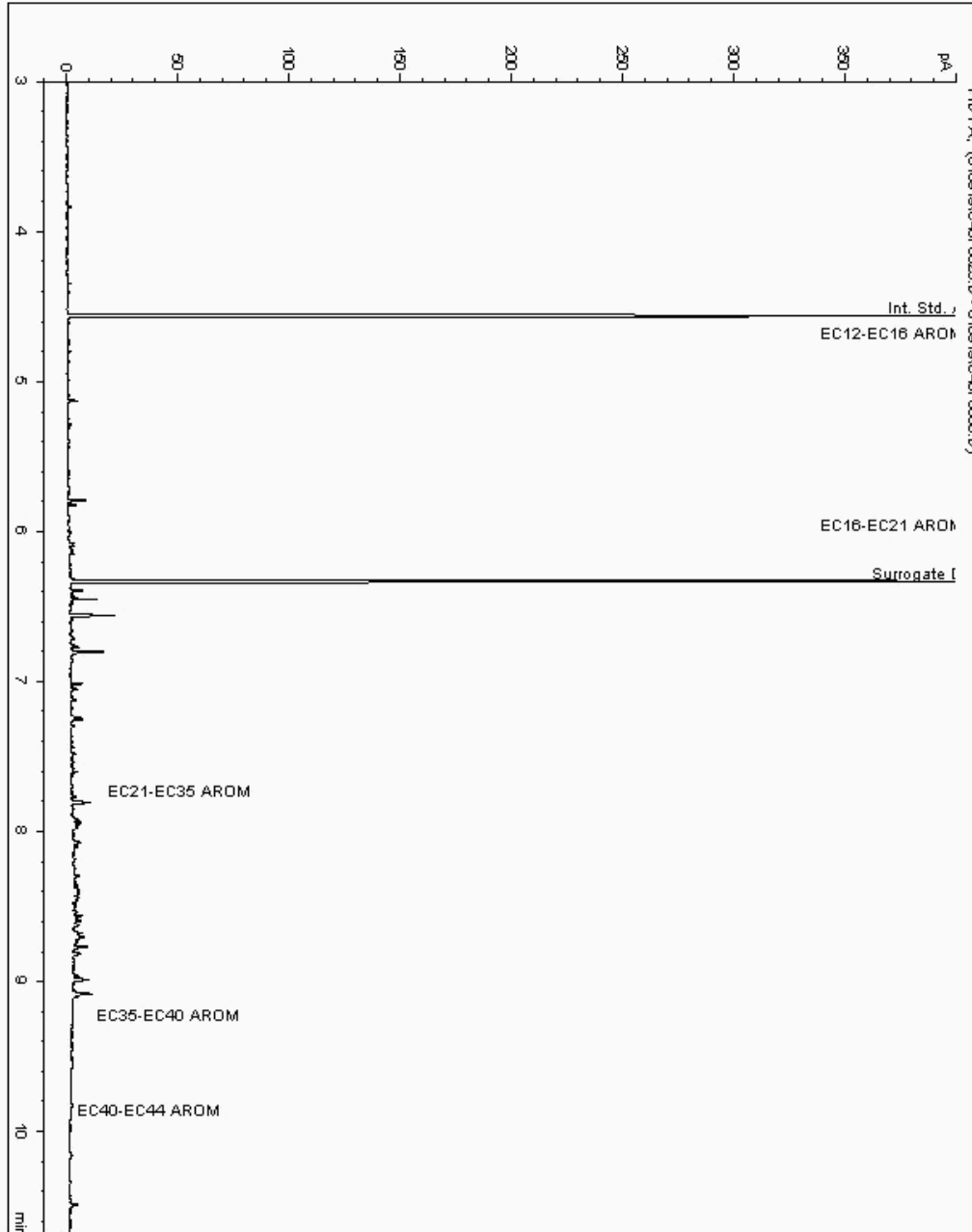
Analysis: EPH CWG (Aromatic) GC (S)
19032391

Sample No :
Sample ID : BH214

19,032,391 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881674-
Date Acquired : 09/01/2019 22:06:00 PM
Units : ppb
Dilution: BH214[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

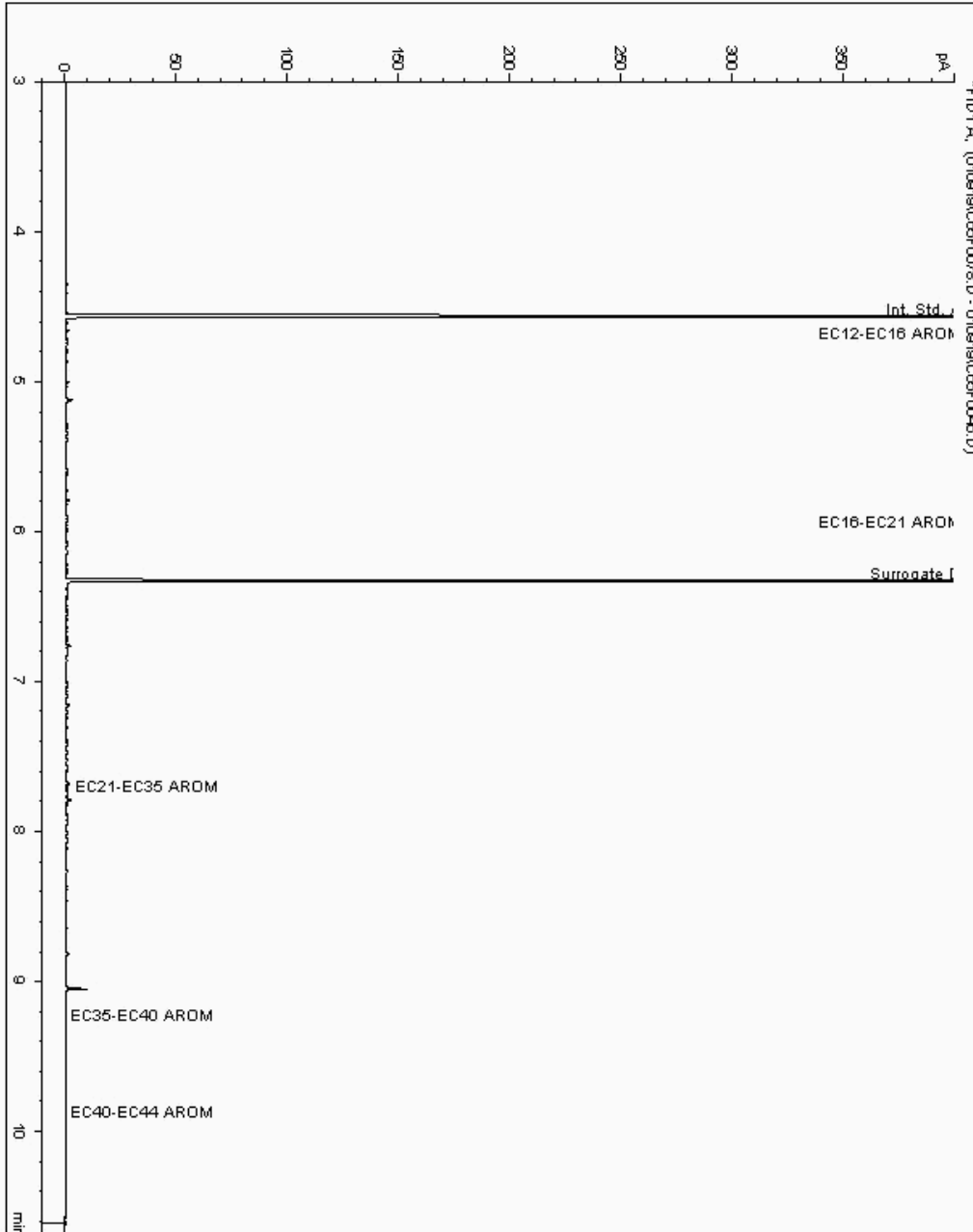
Analysis: EPH CWG (Aromatic) GC (S)
19032534

Sample No :
Sample ID : BH216

19,032,534Depth : 15.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881118-
Date Acquired : 10/01/2019 10:44:13 PM
Units : ppb
Dilution: BH216[15.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

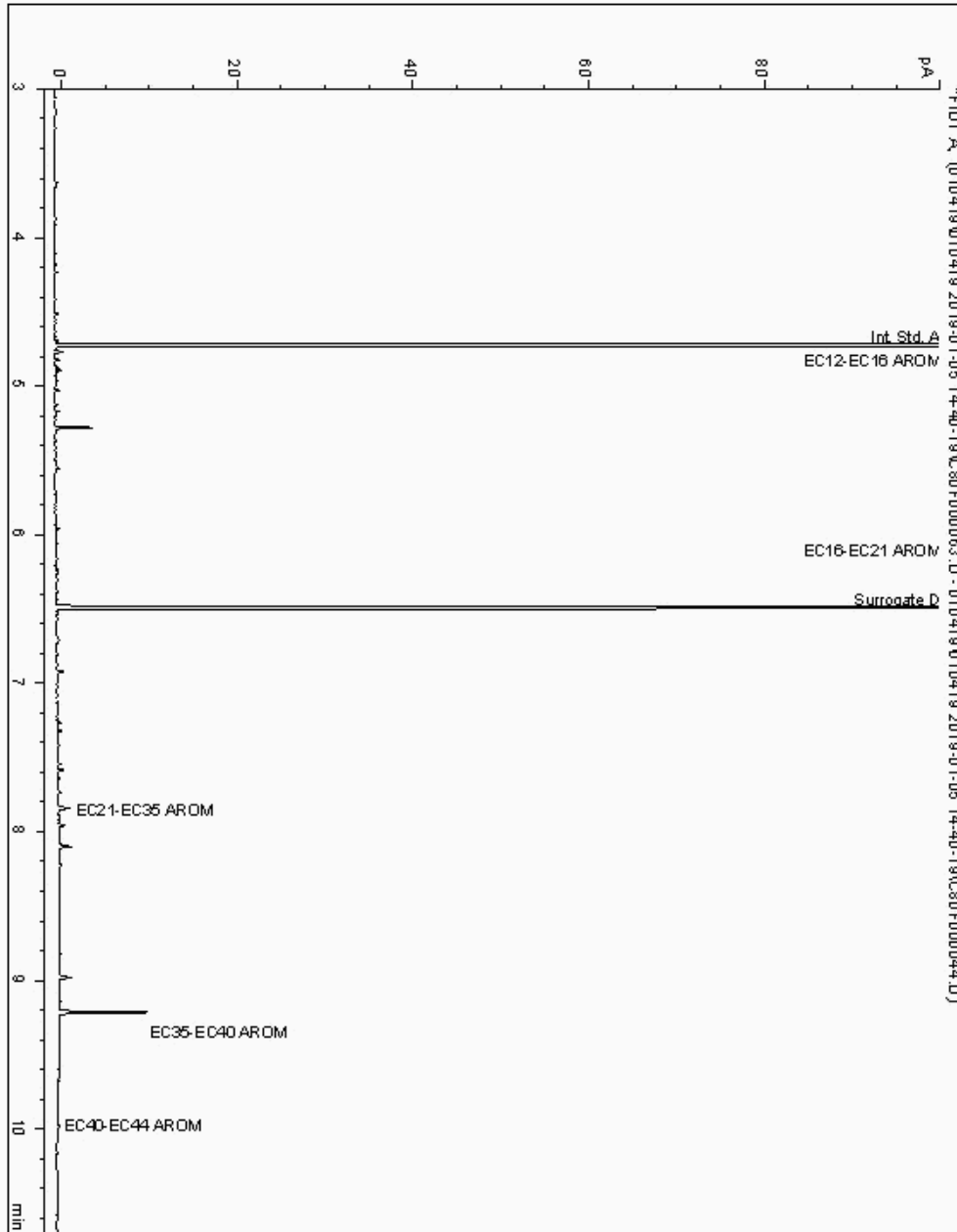
Analysis: EPH CWG (Aromatic) GC (S)
19032638

Sample No :
Sample ID : BH214

19,032,638 Depth : 16.00 - 17.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881400-
Date Acquired : 05/01/19 21:26:18
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

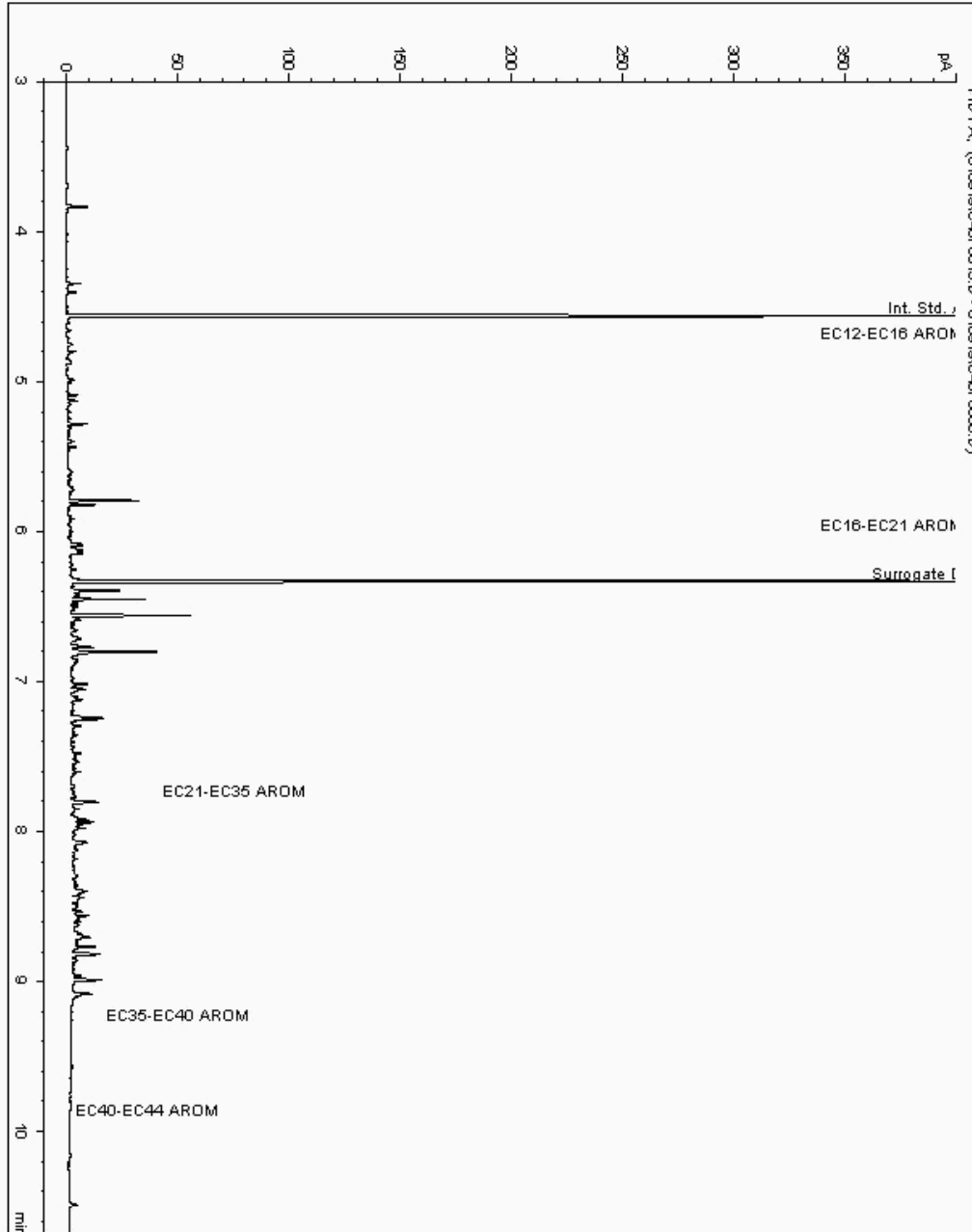
Analysis: EPH CWG (Aromatic) GC (S)
19032642

Sample No :
Sample ID : BH216

19,032,642Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881932-
Date Acquired : 09/01/2019 18:21:49 PM
Units : ppb
Dilution: BH216[5.00 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

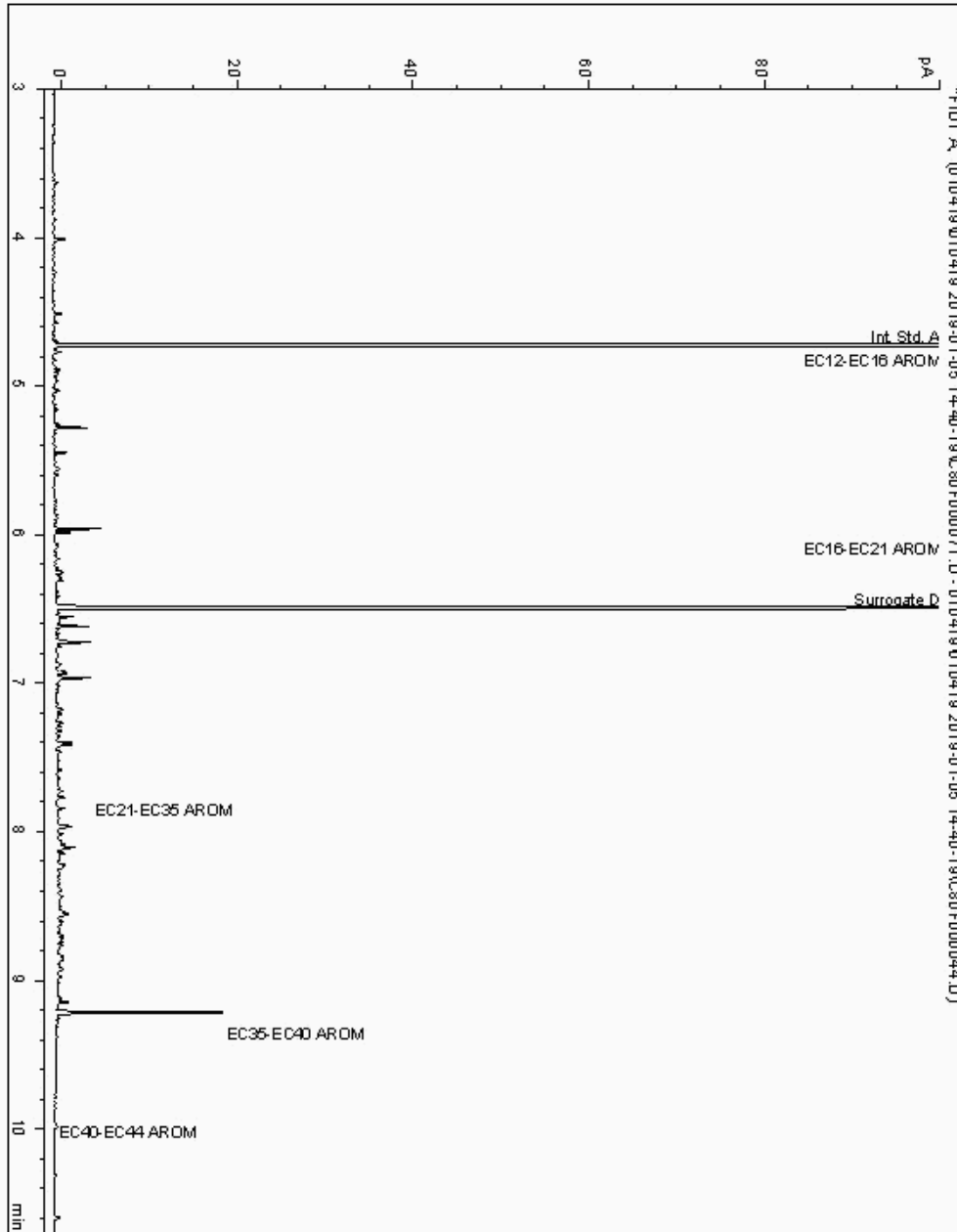
Analysis: EPH CWG (Aromatic) GC (S)
19032688

Sample No :
Sample ID : BH215

19,032,688Depth :6.00 - 8.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881515-
Date Acquired : 05/01/19 23:56:46
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

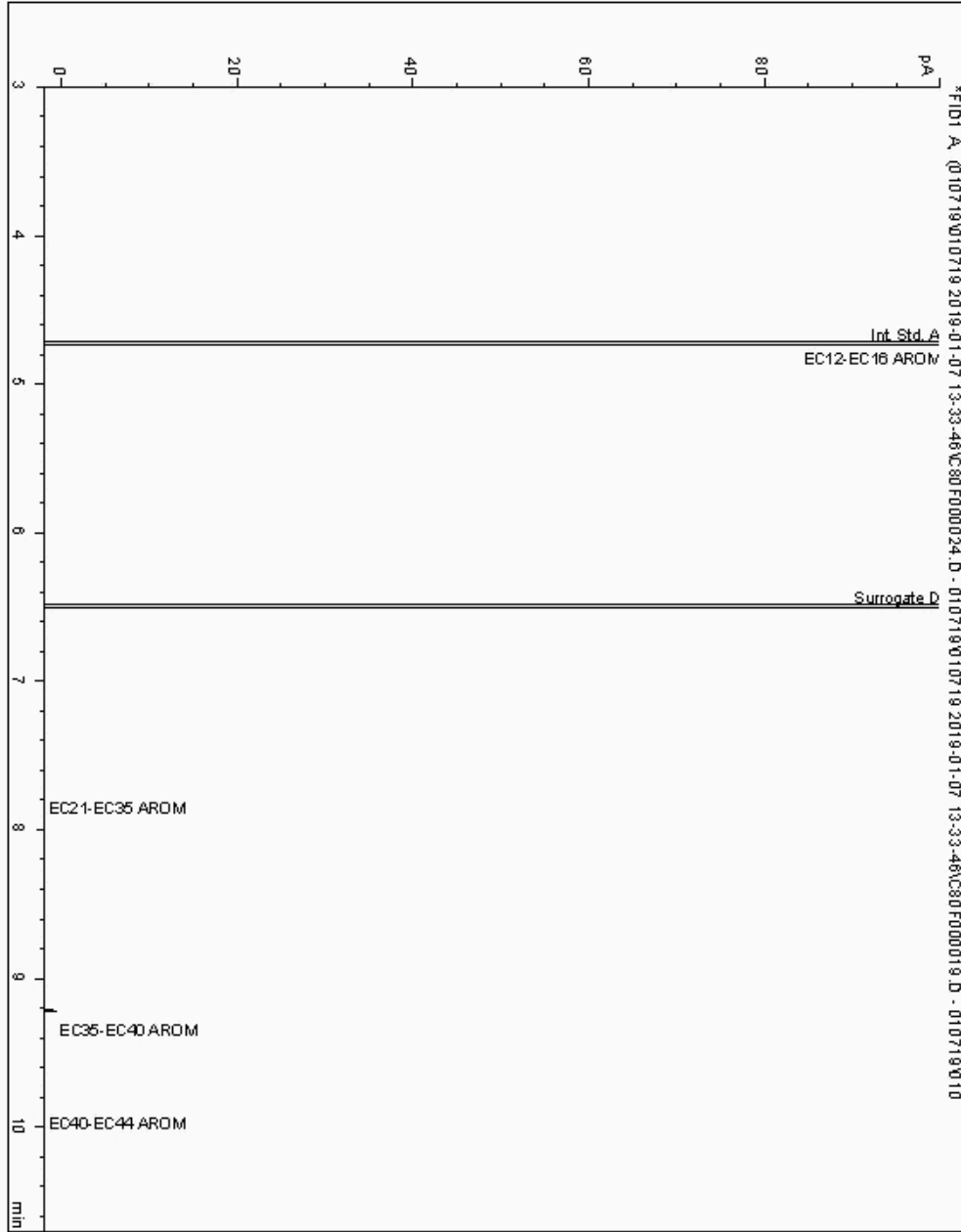
Analysis: EPH CWG (Aromatic) GC (S)
19032760

Sample No :
Sample ID : BH216

19,032,760Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881096-
Date Acquired : 07/01/19 21:07:35
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

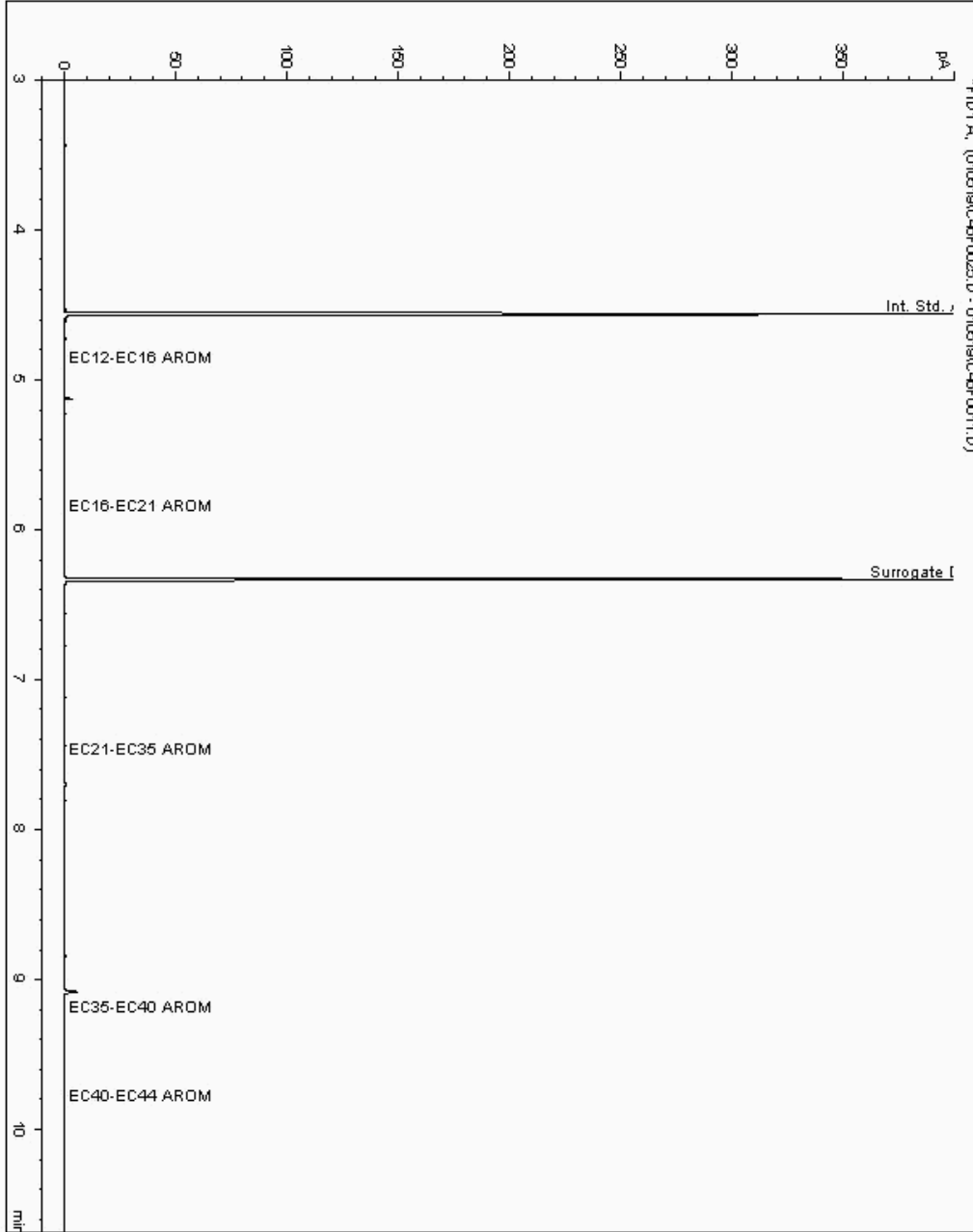
Analysis: EPH CWG (Aromatic) GC (S)
19032814

Sample No :
Sample ID : BH214

19,032,814 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881332-
Date Acquired : 05/01/2019 17:06:55 PM
Units : ppb
Dilution: BH214[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

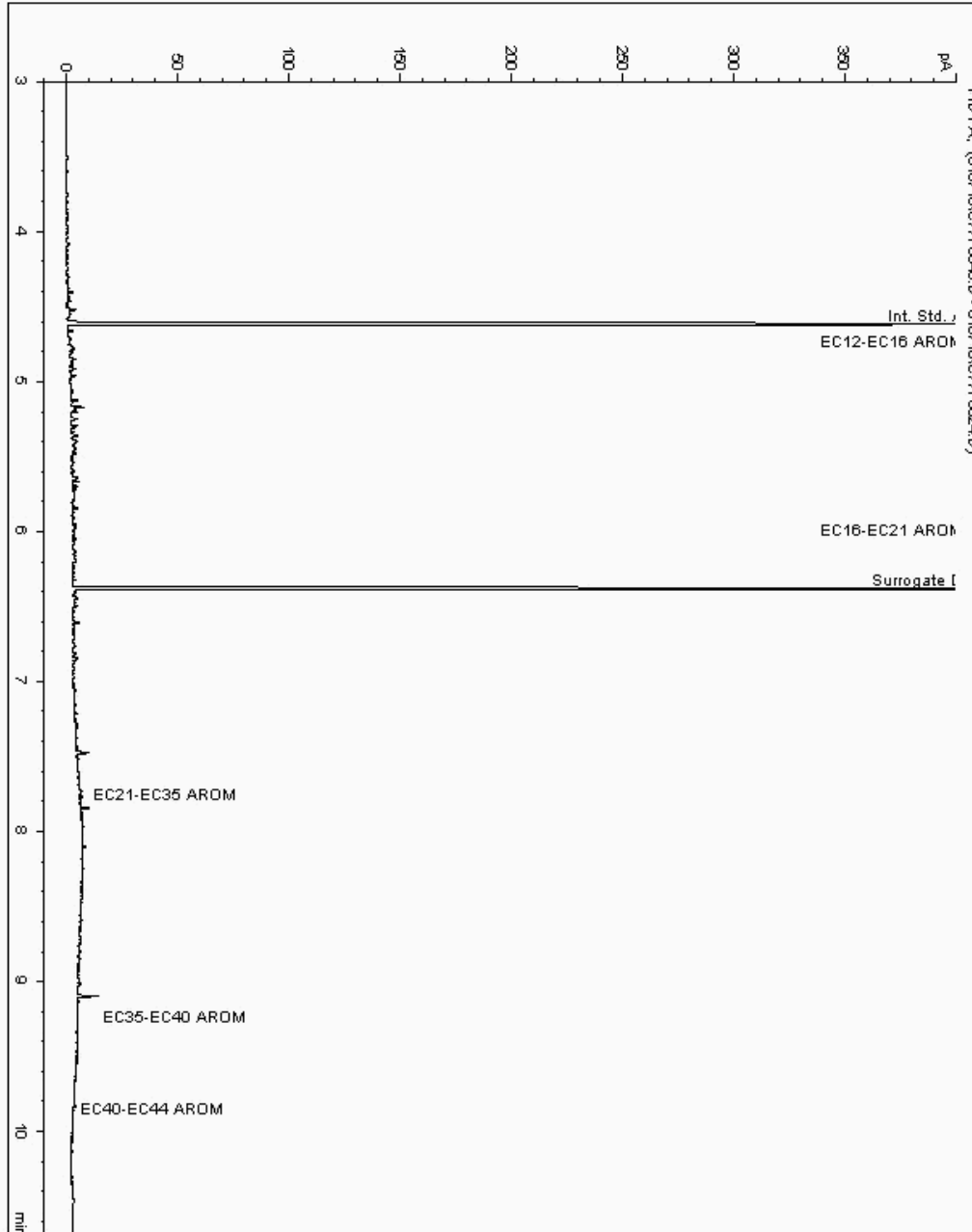
Analysis: EPH CWG (Aromatic) GC (S)
19032870

Sample No :
Sample ID : BH217

19,032,870Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17882049-
Date Acquired : 1/8/2019 12:55:48 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

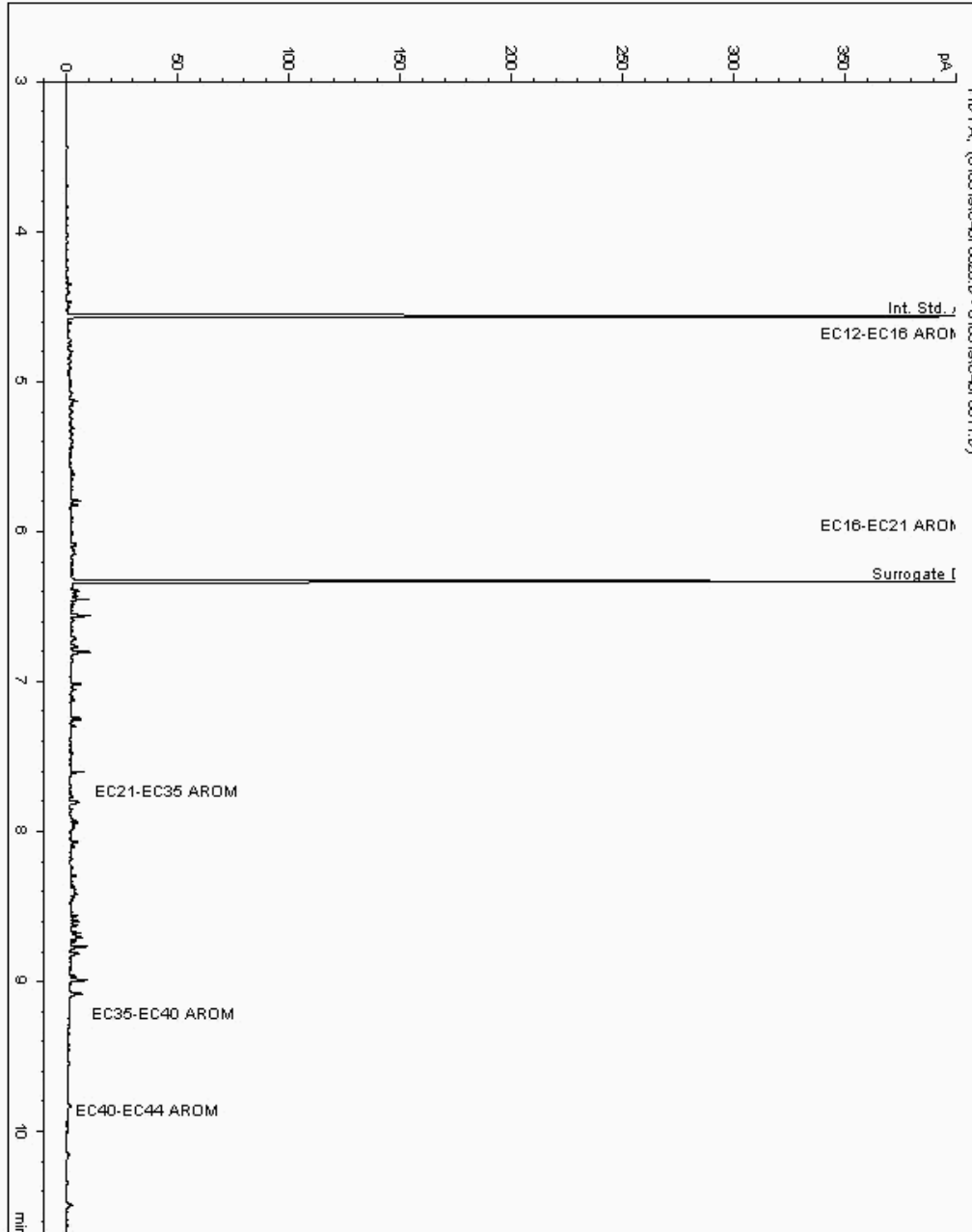
Analysis: EPH CWG (Aromatic) GC (S)
19032923

Sample No :
Sample ID : BH217

19,032,923Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881469-
Date Acquired : 05/01/2019 17:26:46 PM
Units : ppb
Dilution: BH217[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

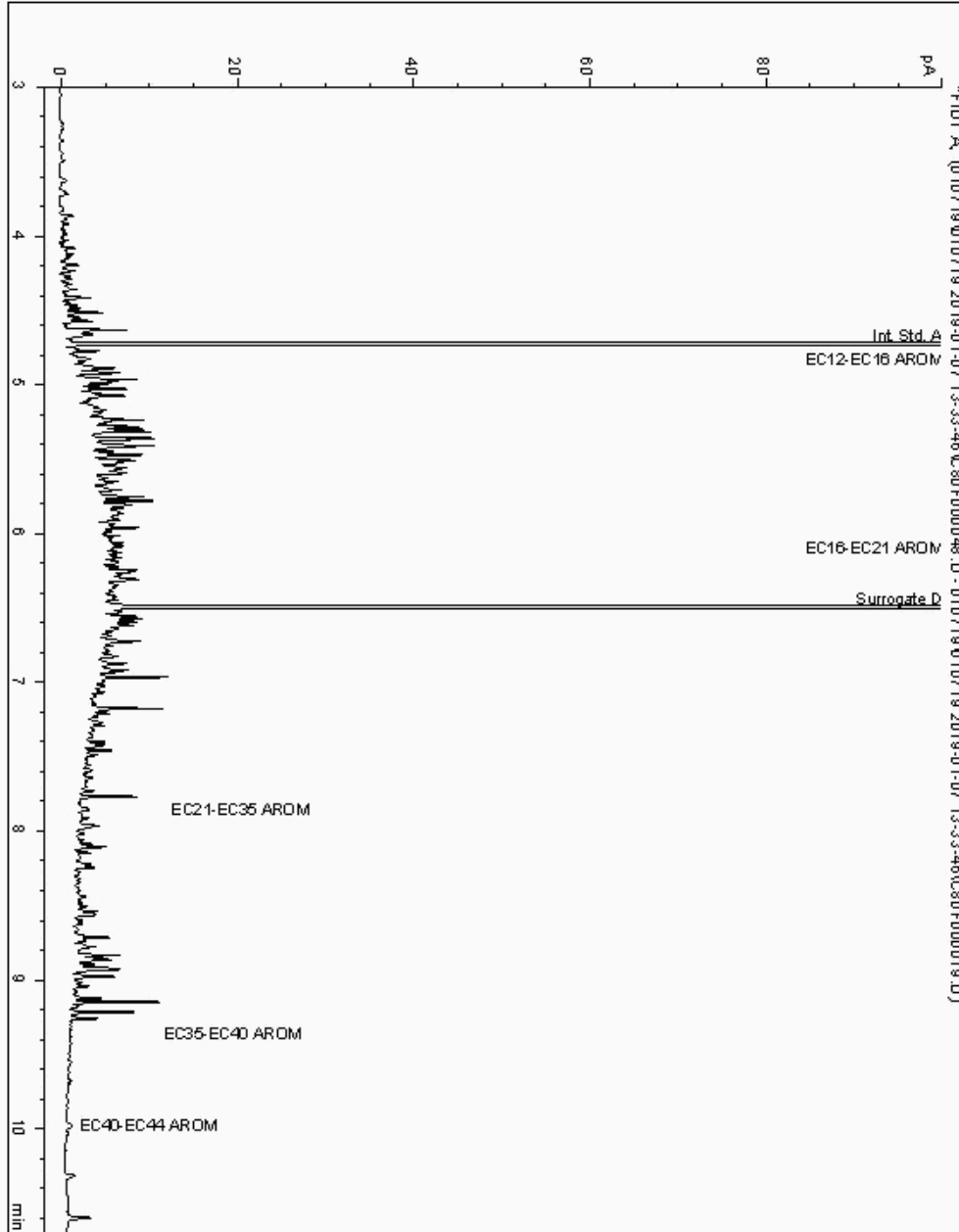
Analysis: EPH CWG (Aromatic) GC (S)
19032931

Sample No :
Sample ID : BH217

19,032,931 Depth : 0.50 - 1.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17882026-
Date Acquired : 08/01/19 03:39:40
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

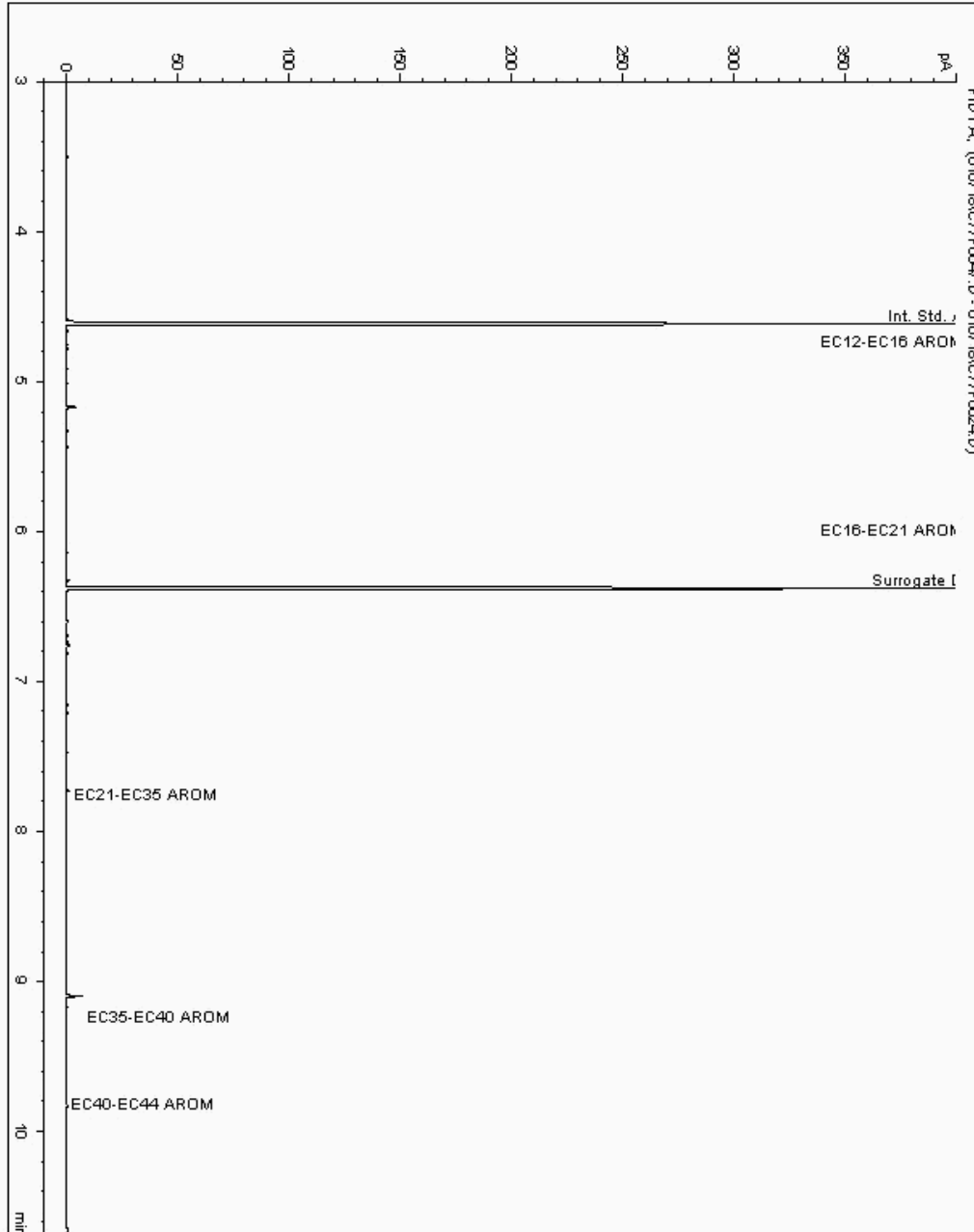
Analysis: EPH CWG (Aromatic) GC (S)
19032951

Sample No :
Sample ID : BH214

19,032,951 Depth : 9.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881378-
Date Acquired : 1/8/2019 1:27:39 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

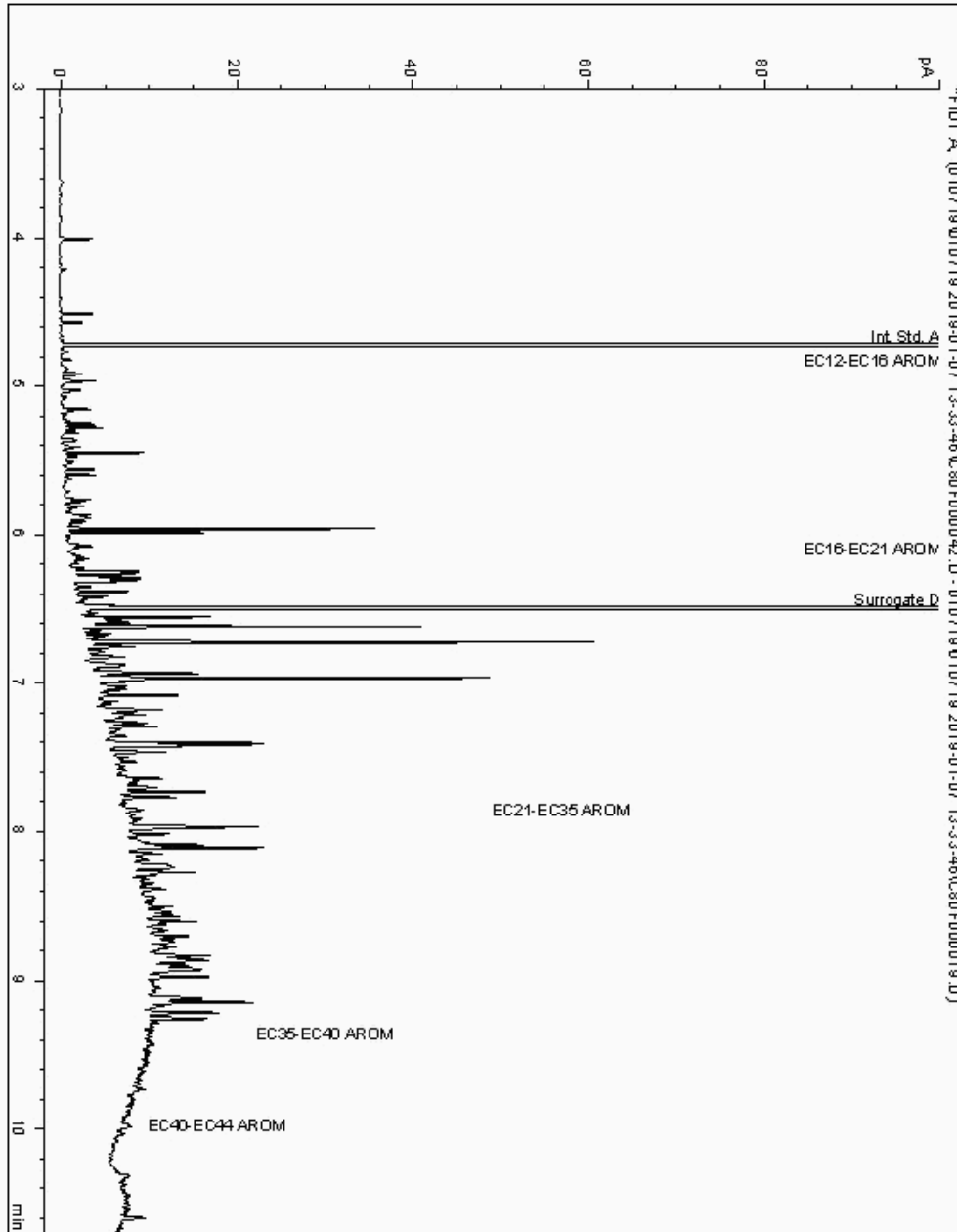
Analysis: EPH CWG (Aromatic) GC (S)
19033025

Sample No :
Sample ID : BH214

19,033,025Depth :2.00 - 3.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881767-
Date Acquired : 08/01/19 02:12:12
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

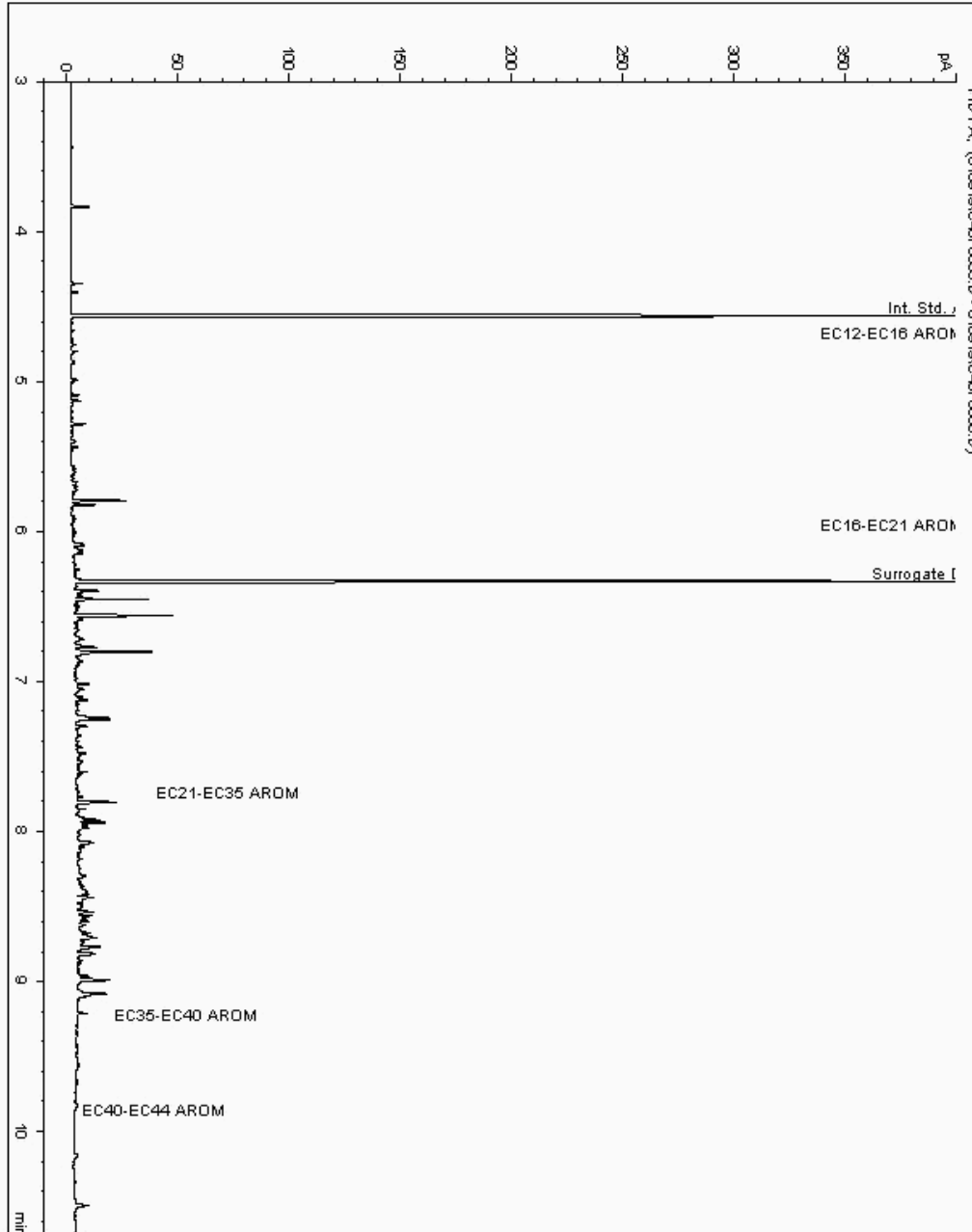
Analysis: EPH CWG (Aromatic) GC (S)
19033069

Sample No :
Sample ID : BH216

19,033,069Depth :0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881815-
Date Acquired : 10/01/2019 06:34:57 PM
Units : ppb
Dilution: BH216[0.00 - 0.50] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

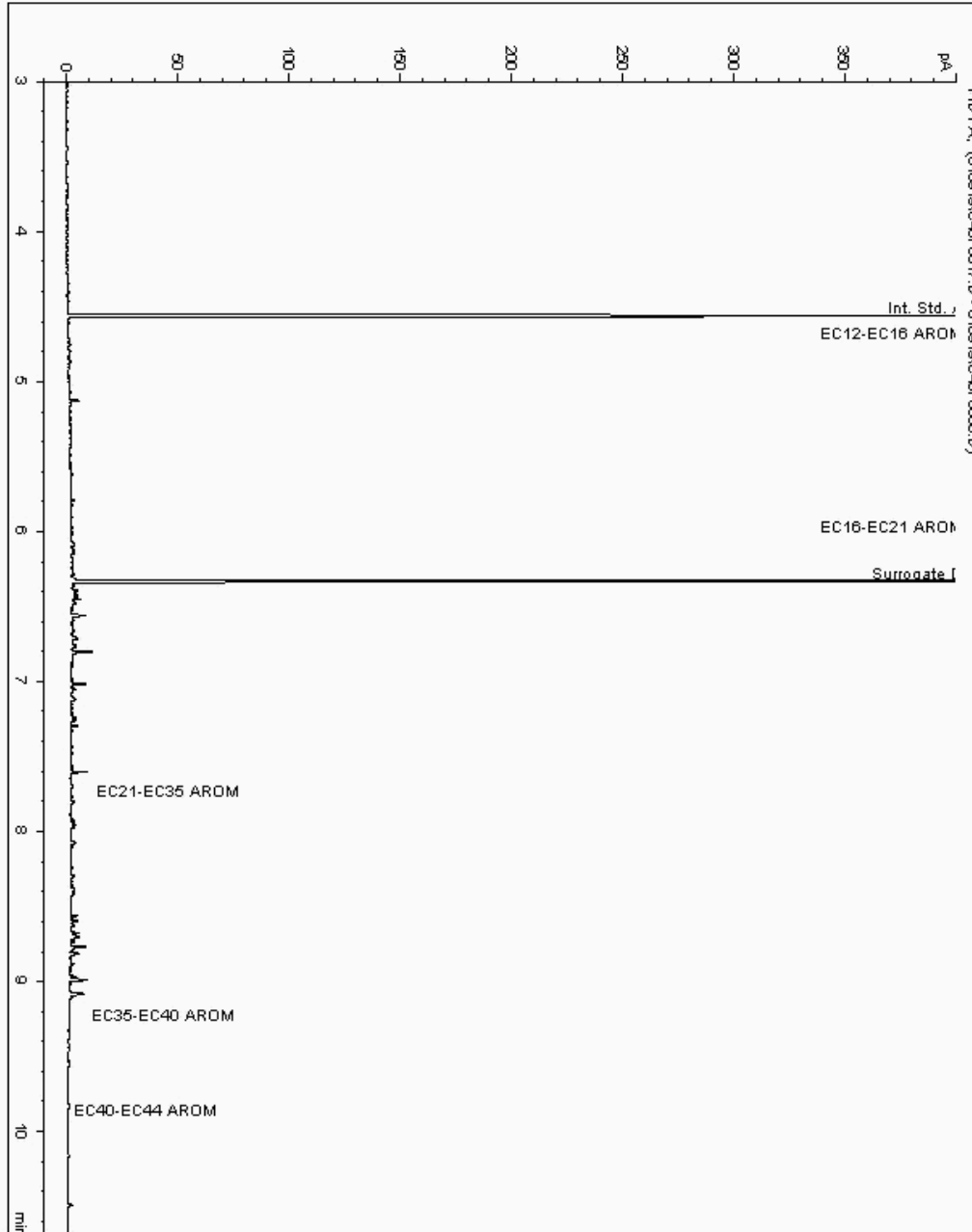
Analysis: EPH CWG (Aromatic) GC (S)
19033074

Sample No :
Sample ID : BH217

19,033,074 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881446-
Date Acquired : 09/01/2019 19:34:09 PM
Units : ppb
Dilution: BH217[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

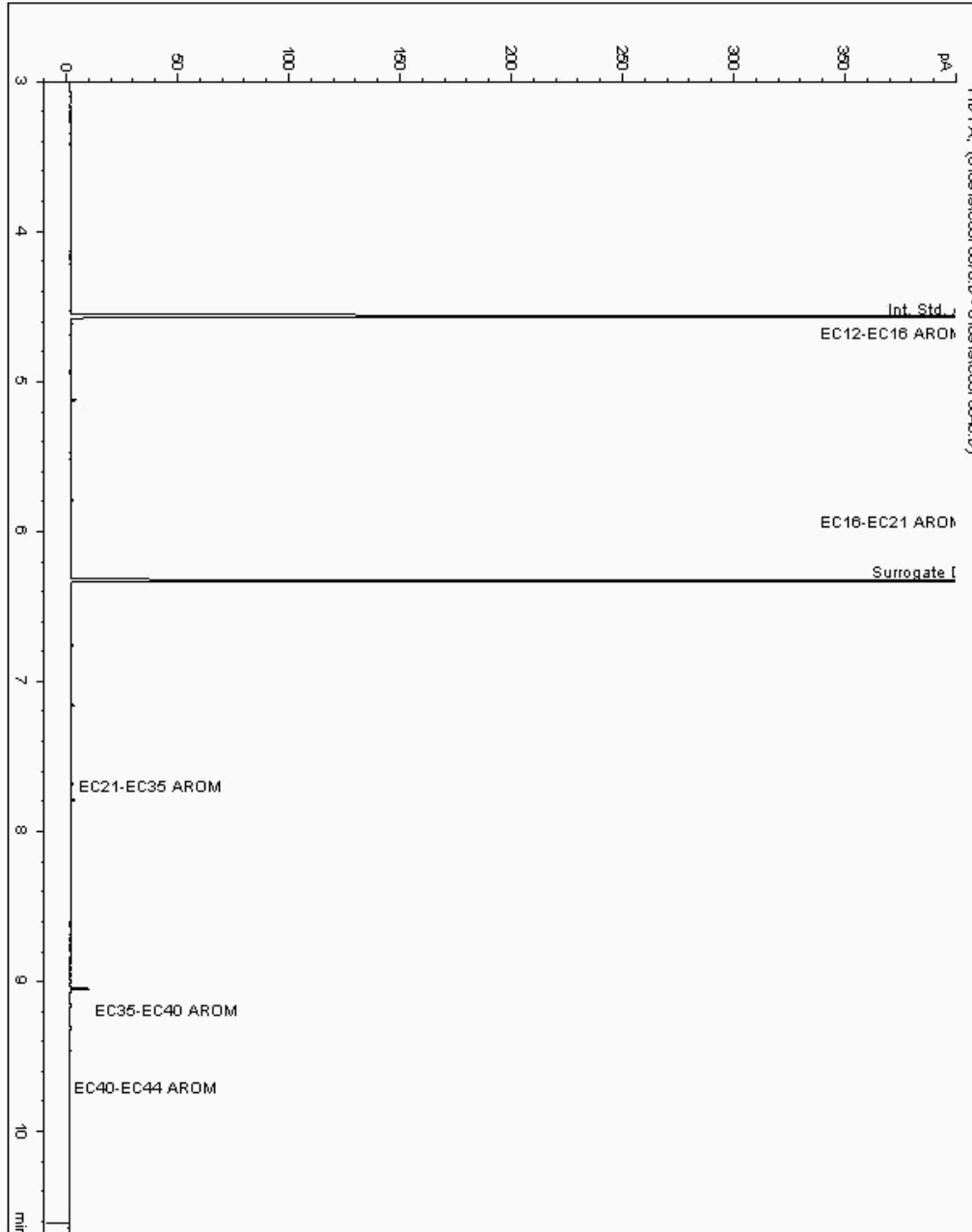
Analysis: EPH CWG (Aromatic) GC (S)
19033111

Sample No :
Sample ID : BH215

19,033,111Depth : 13.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881074-
Date Acquired : 10/01/2019 10:03:33 PM
Units : ppb
Dilution: BH215[13.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

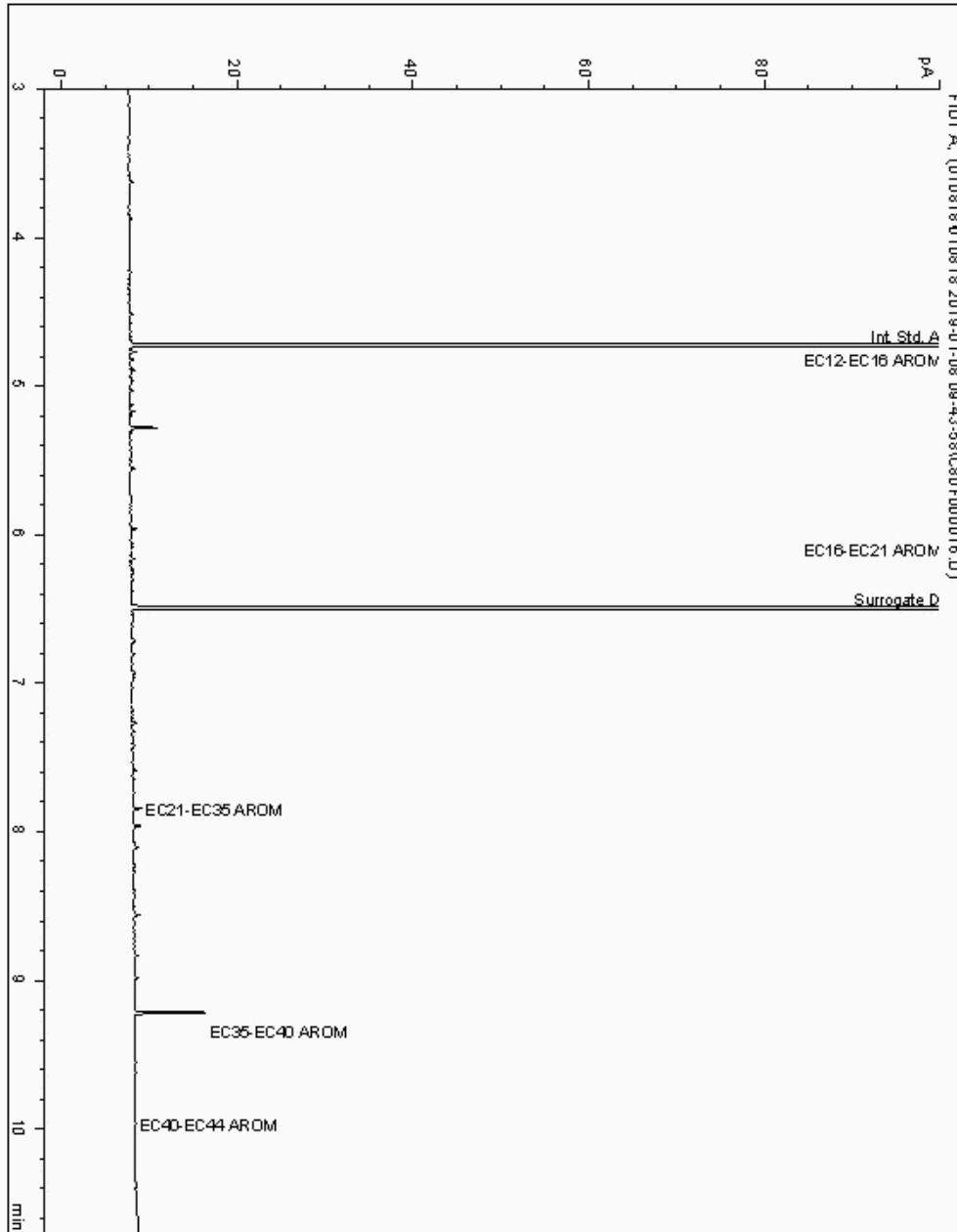
Analysis: EPH CWG (Aromatic) GC (S)
19033206

Sample No :
Sample ID : BH217

19,033,206Depth : 14.00 - 15.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881163-
Date Acquired : 08/01/19 13:49:52
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

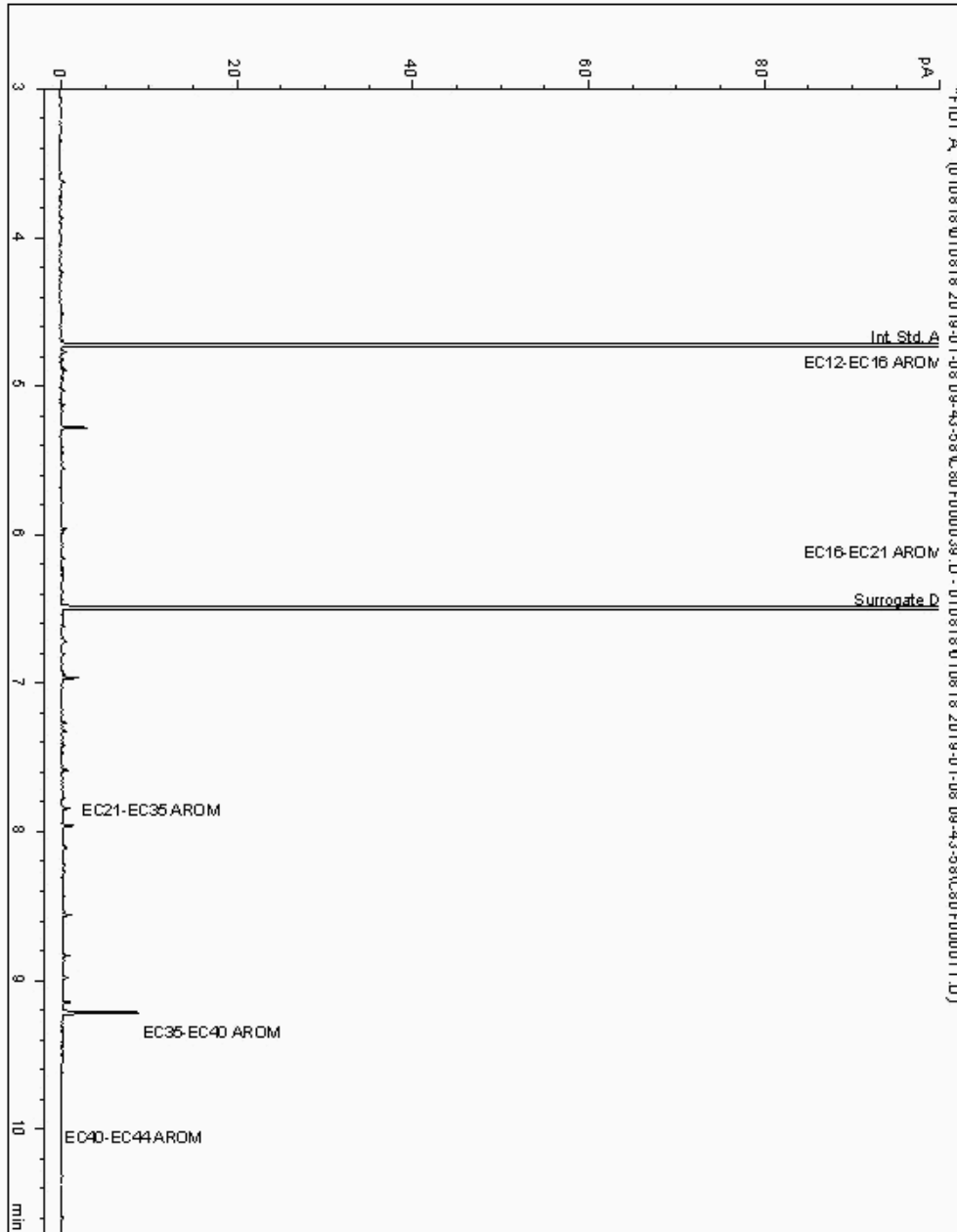
Analysis: EPH CWG (Aromatic) GC (S)
19033395

Sample No :
Sample ID : BH217

19,033,395Depth : 15.00 - 16.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881561-
Date Acquired : 08/01/19 20:26:40
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

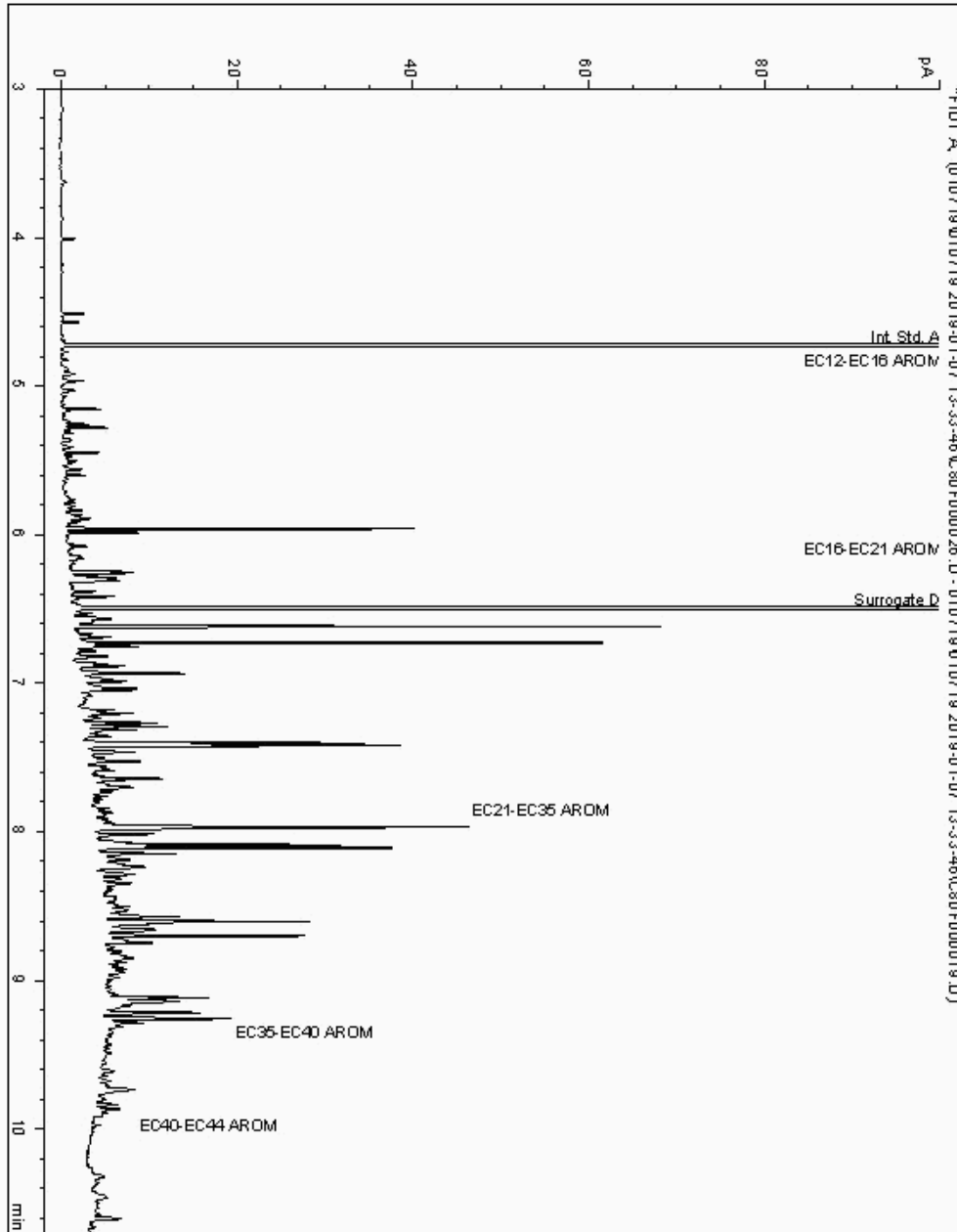
Analysis: EPH CWG (Aromatic) GC (S)
19033640

Sample No :
Sample ID : BH215

19,033,640Depth : 0.00 - 0.50

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881309-
Date Acquired : 07/01/19 21:47:36
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

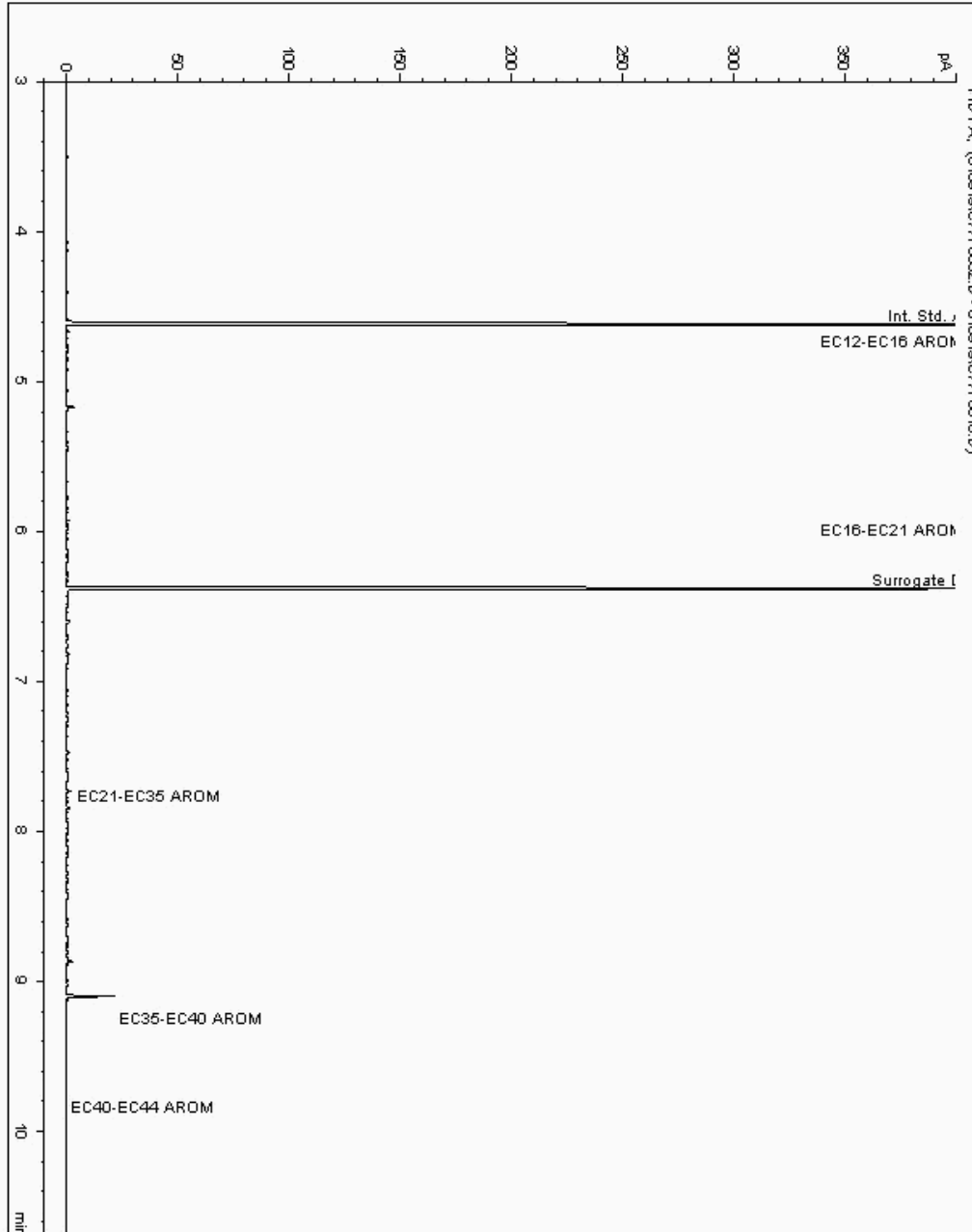
Analysis: EPH CWG (Aromatic) GC (S)
19033688

Sample No :
Sample ID : BH217

19,033,688Depth : 12.50 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881187-
Date Acquired : 1/9/2019 4:21:00 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

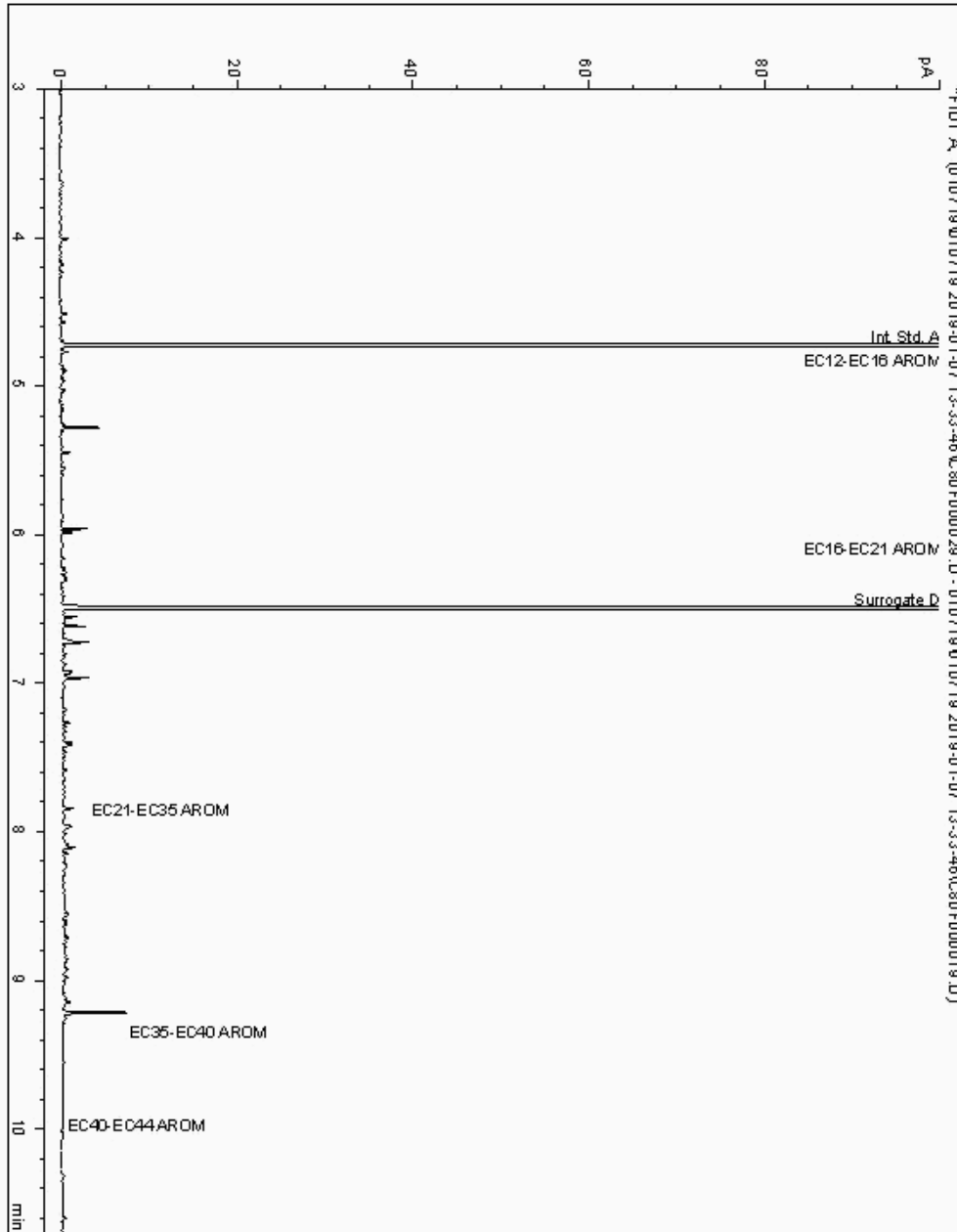
Analysis: EPH CWG (Aromatic) GC (S)
19033739

Sample No :
Sample ID : BH216

19,033,739Depth :9.00 - 11.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881538-
Date Acquired : 07/01/19 22:31:41
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

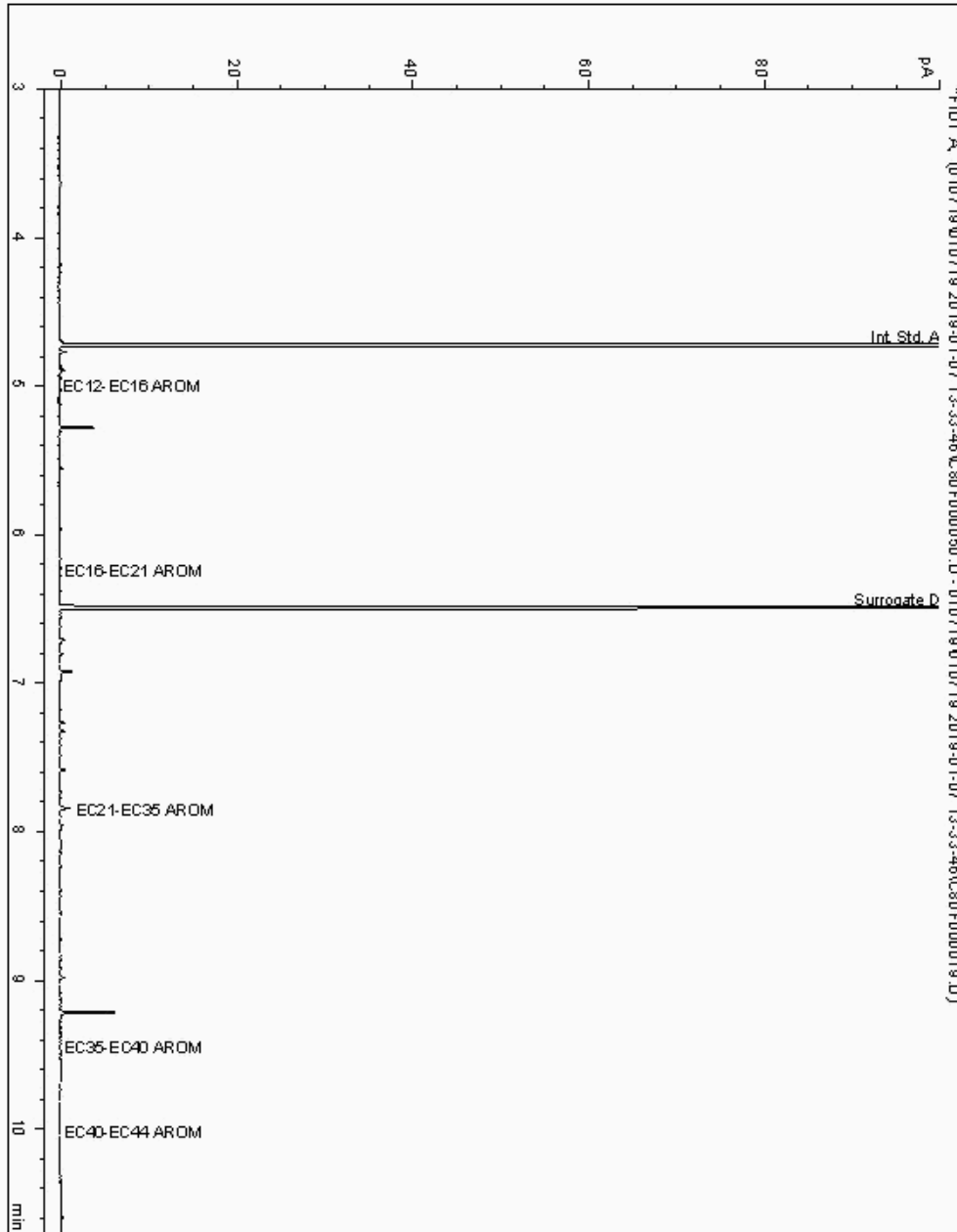
Analysis: EPH CWG (Aromatic) GC (S)
19033785

Sample No :
Sample ID : BH214

19,033,785Depth :8.00 - 9.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17881423-
Date Acquired : 08/01/19 04:11:49
Units : ppb
Dilution :
CF : 1
Multiplier : 1.050





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

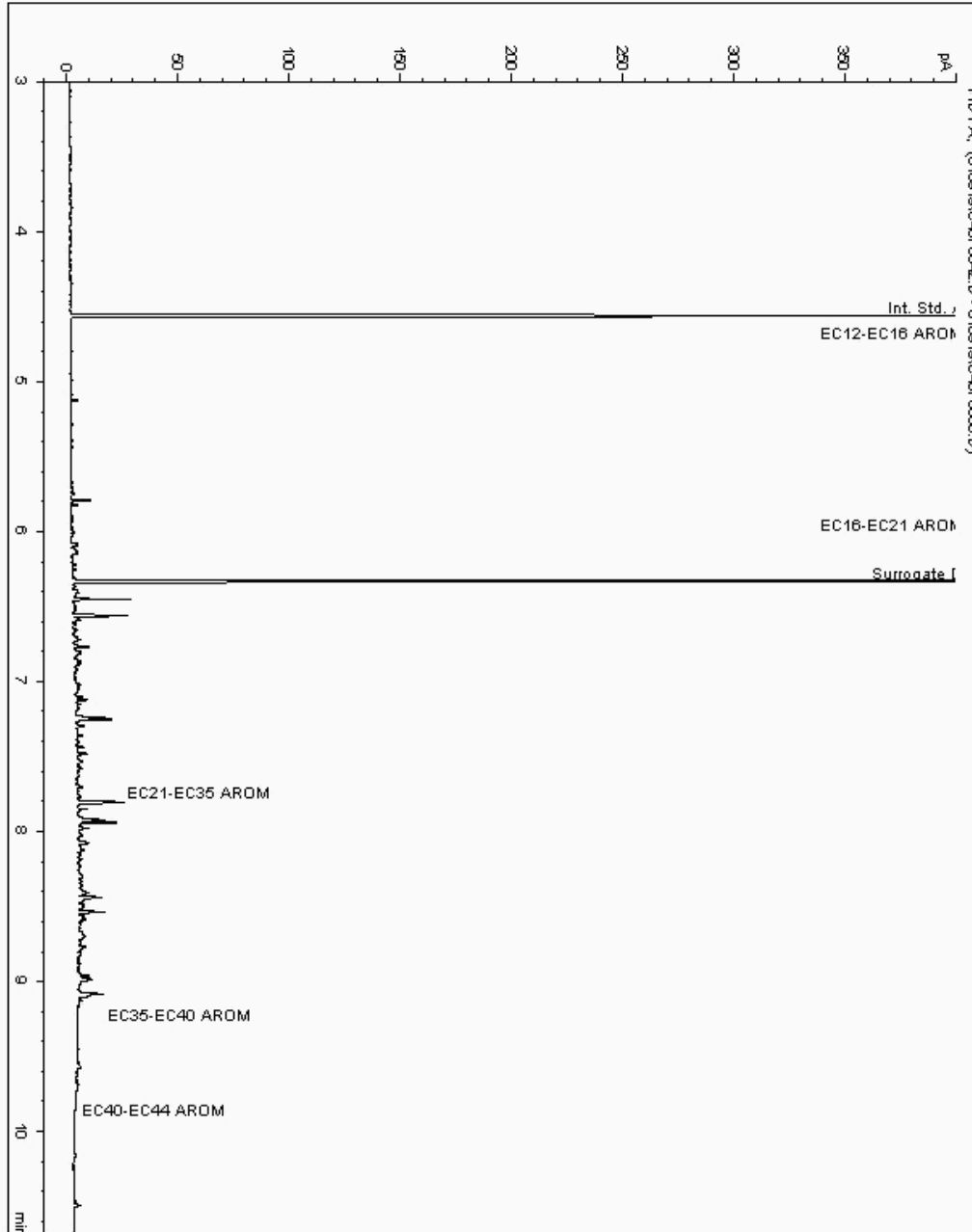
Analysis: EPH CWG (Aromatic) GC (S)
19033804

Sample No :
Sample ID : BH215

19,033,804Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881262-
Date Acquired : 10/01/2019 03:11:41 PM
Units : ppb
Dilution: BH215[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

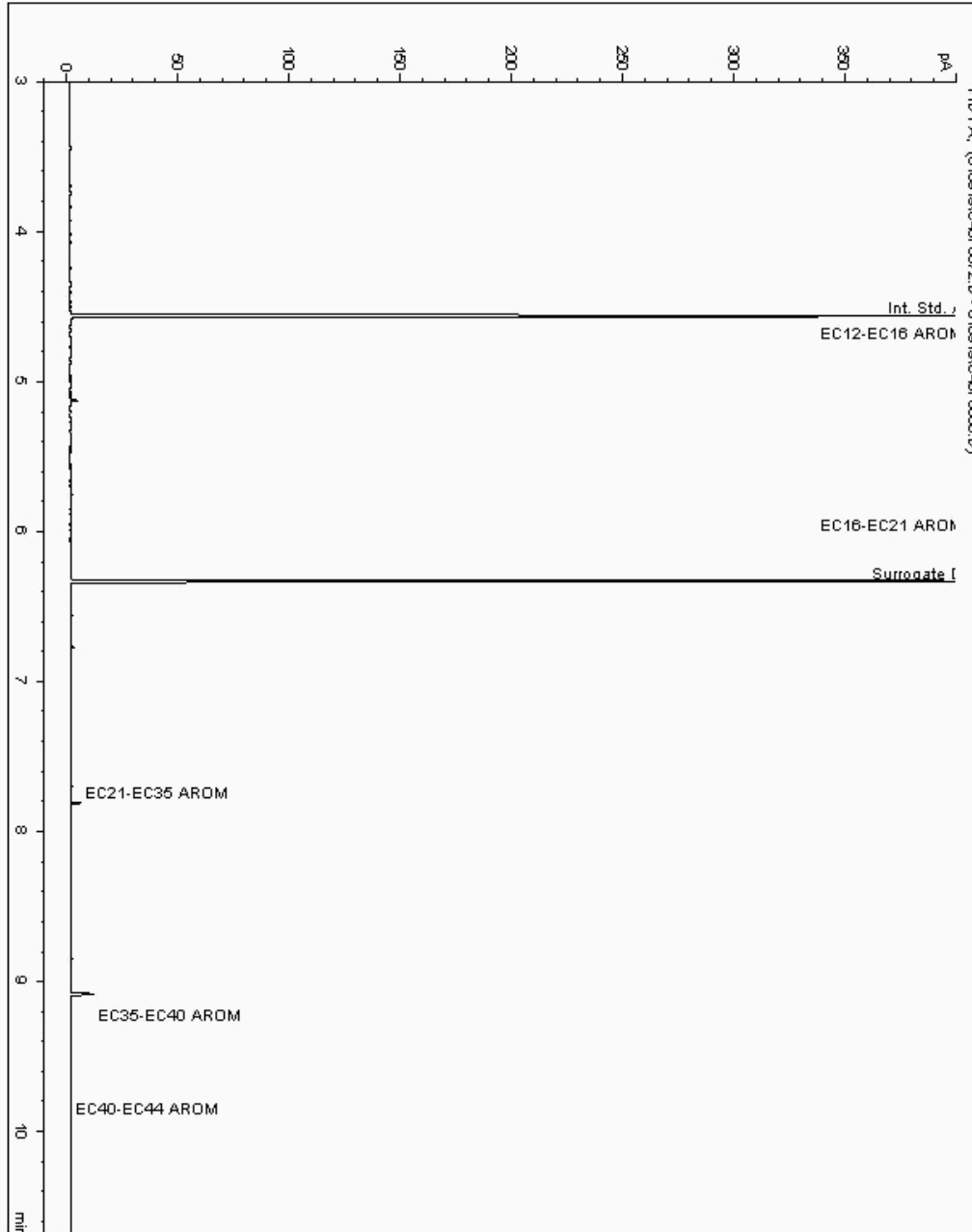
Analysis: EPH CWG (Aromatic) GC (S)
19033810

Sample No :
Sample ID : BH214

19,033,810 Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881355-
Date Acquired : 10/01/2019 11:27:56 PM
Units : ppb
Dilution: BH214[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

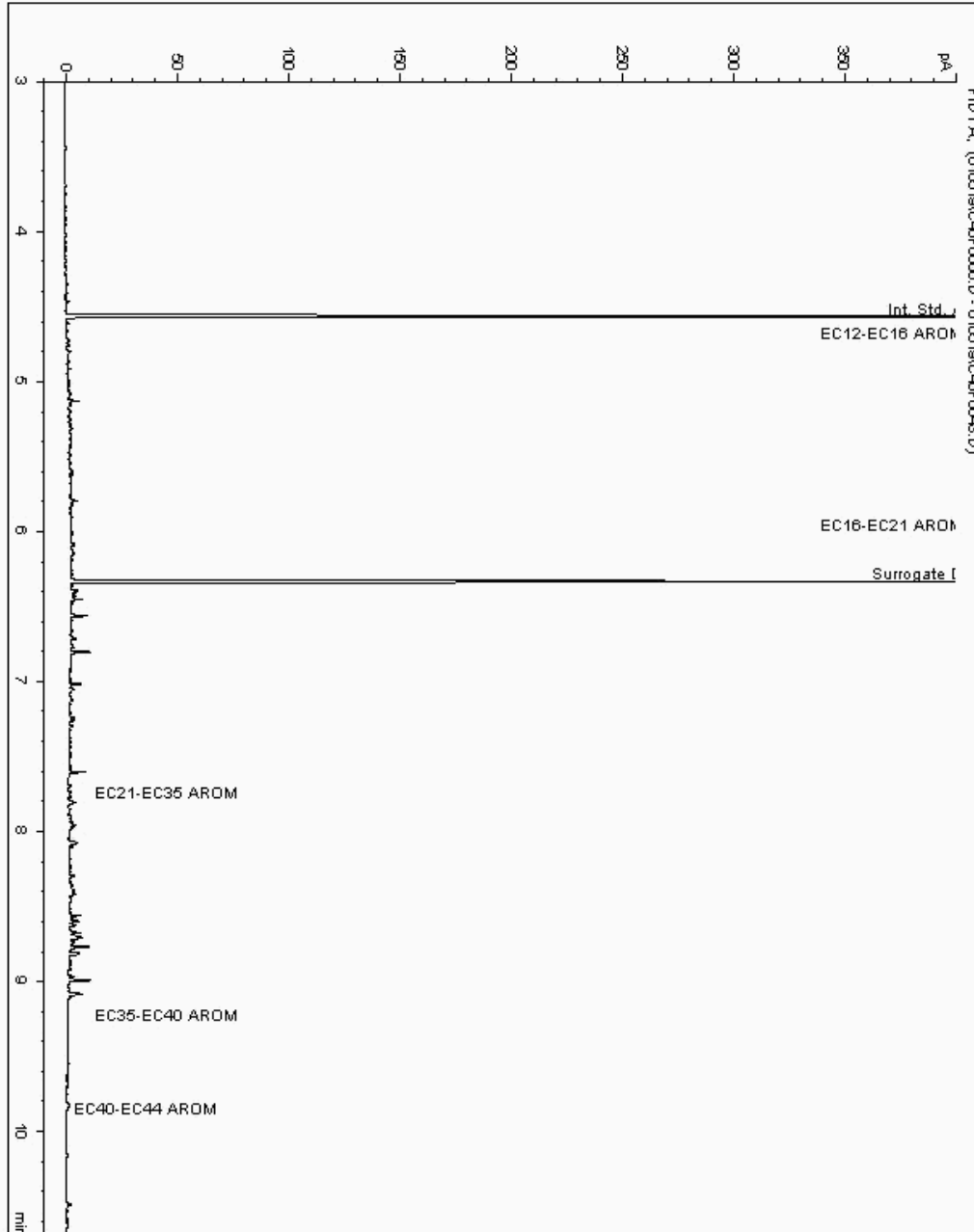
Analysis: EPH CWG (Aromatic) GC (S)
19034236

Sample No :
Sample ID : BH217

19,034,236Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17882073-
Date Acquired : 07/01/2019 20:27:52 PM
Units : ppb
Dilution: BH217[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

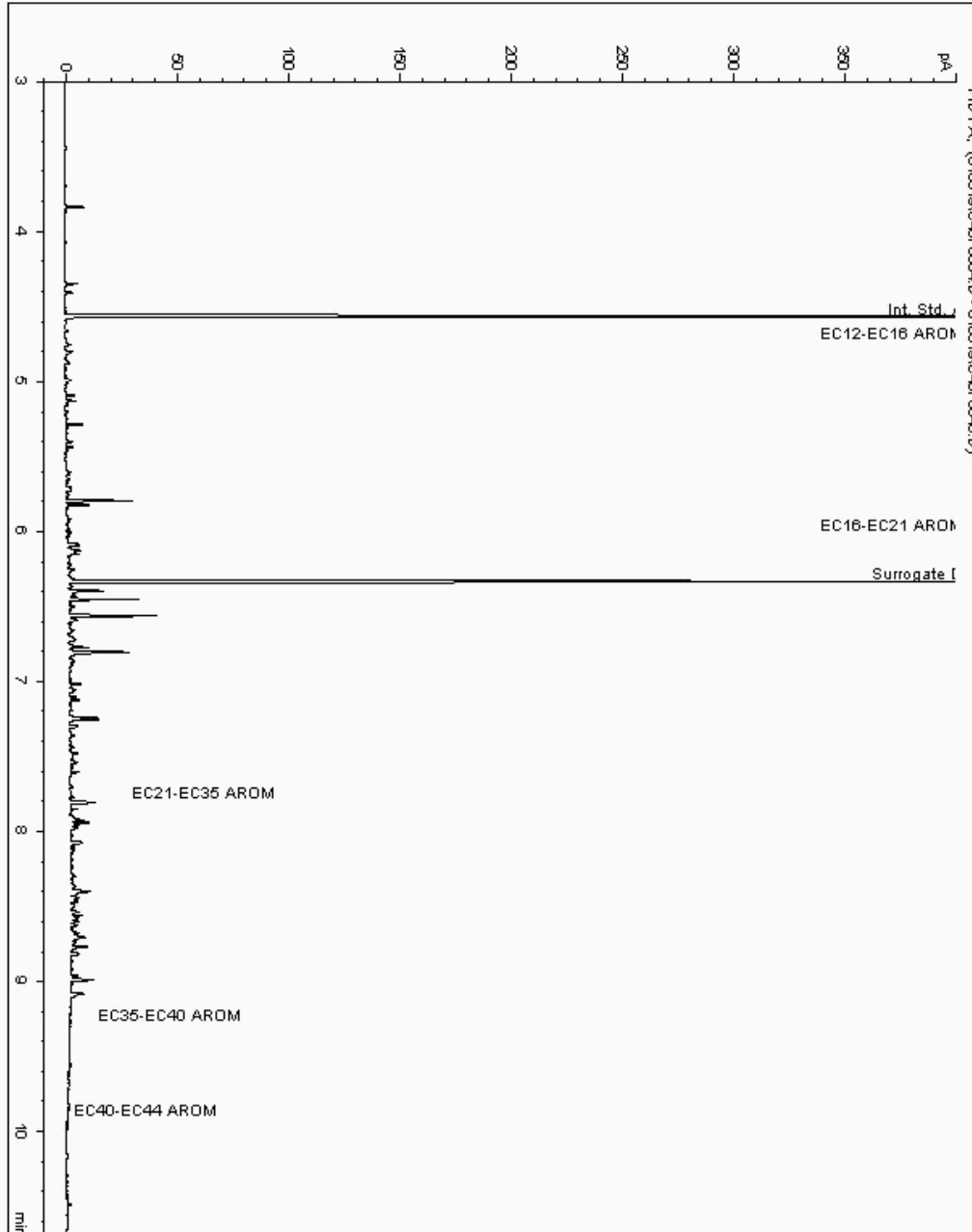
Analysis: EPH CWG (Aromatic) GC (S)
19034276

Sample No :
Sample ID : BH215

19,034,276Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881284-
Date Acquired : 07/01/2019 21:32:18 PM
Units : ppb
Dilution: BH215[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

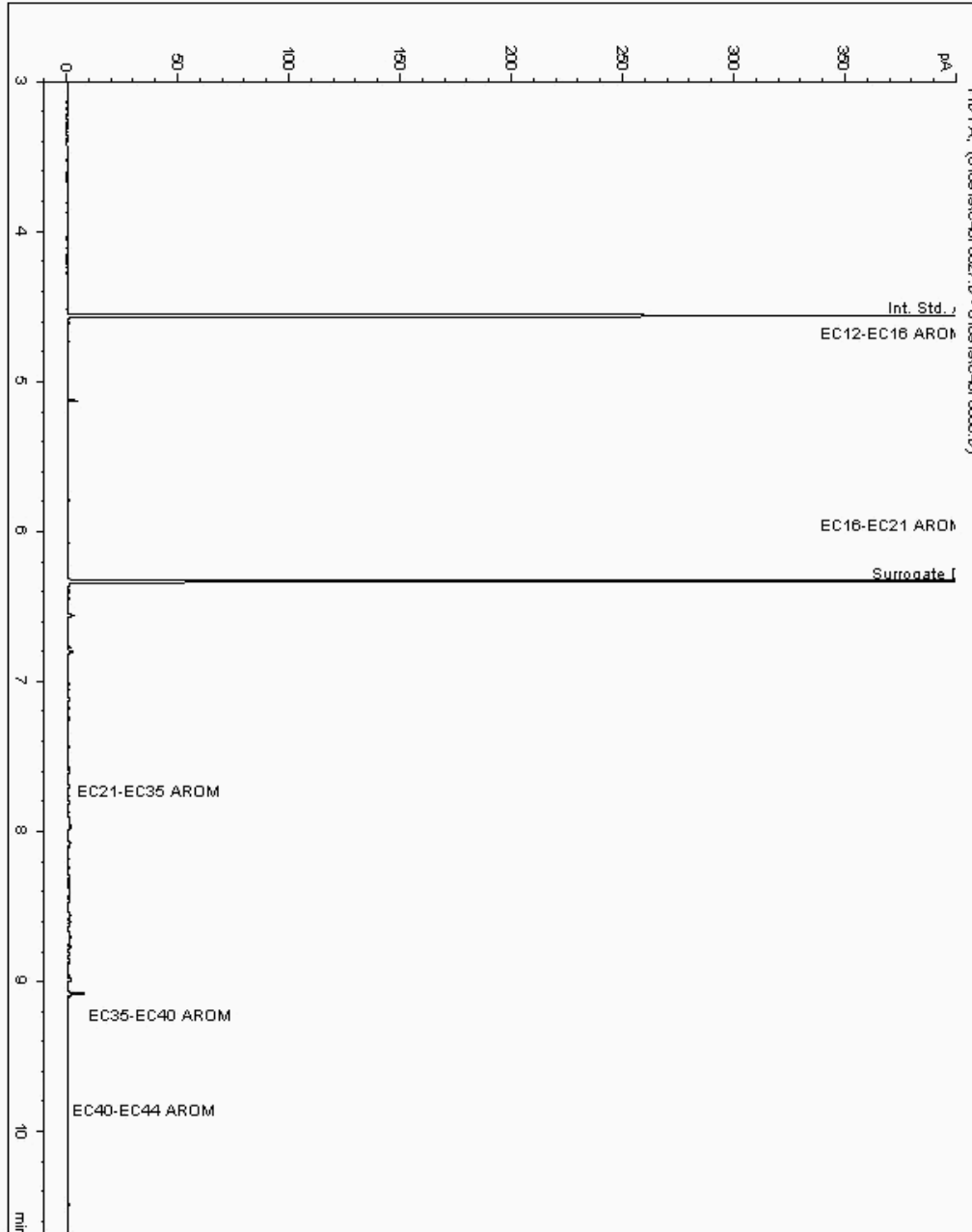
Analysis: EPH CWG (Aromatic) GC (S)
19034296

Sample No :
Sample ID : BH217

19,034,296Depth :6.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17882002-
Date Acquired : 09/01/2019 22:38:14 PM
Units : ppb
Dilution: BH217[6.00 - 8.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

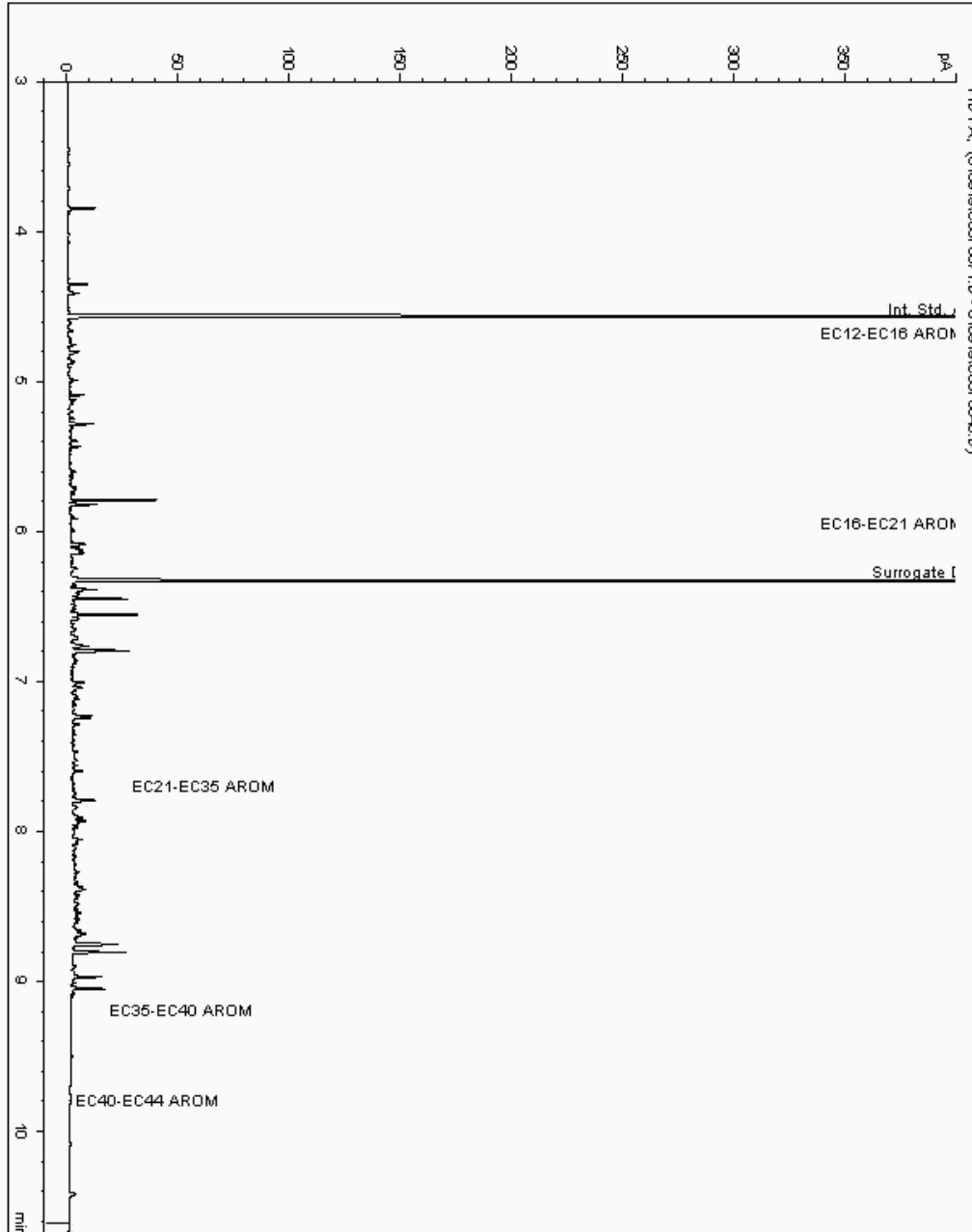
Analysis: EPH CWG (Aromatic) GC (S)
19034320

Sample No :
Sample ID : BH215

19,034,320Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17881213-
Date Acquired : 10/01/2019 08:46:26 PM
Units : ppb
Dilution: BH215[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

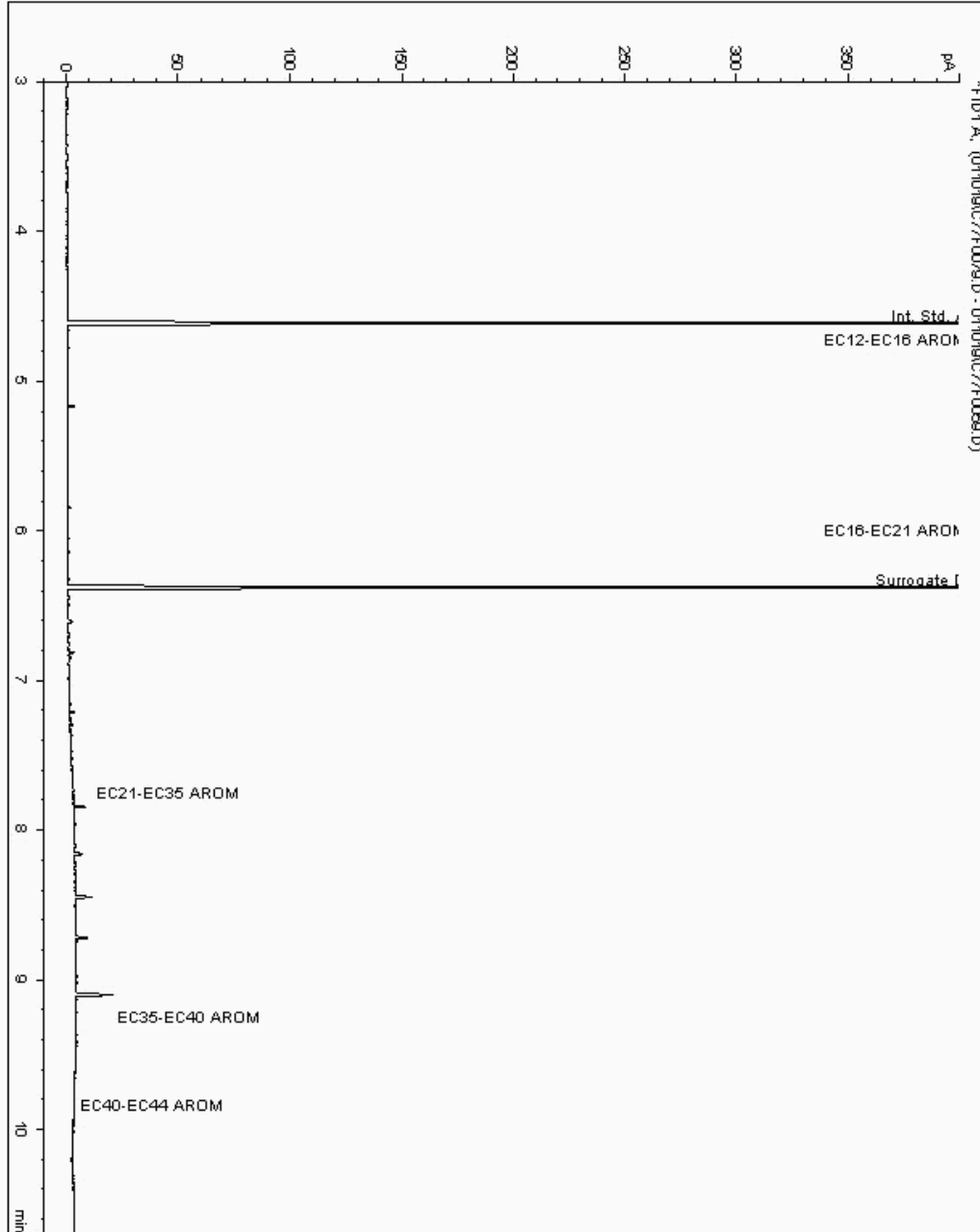
Analysis: EPH CWG (Aromatic) GC (S)
19073888

Sample No :
Sample ID : BH214

19,073,888Depth :0.00 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17918563-
Date Acquired : 1/11/2019 3:06:12 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

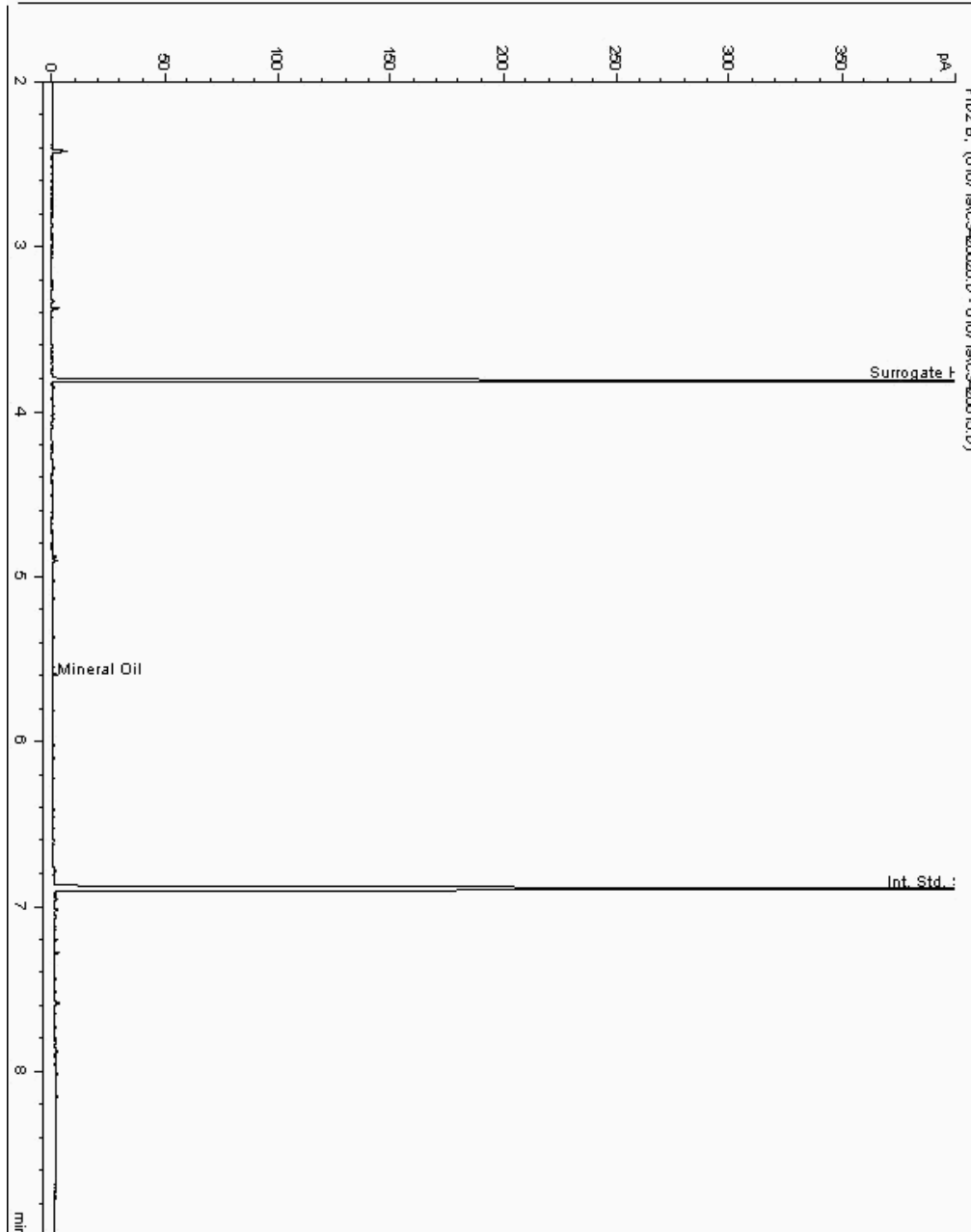
Analysis: Mineral Oil
19031619

Sample No :
Sample ID : BH214

19,031,619 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881721-
Date Acquired : 07/01/19 17:18:29 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

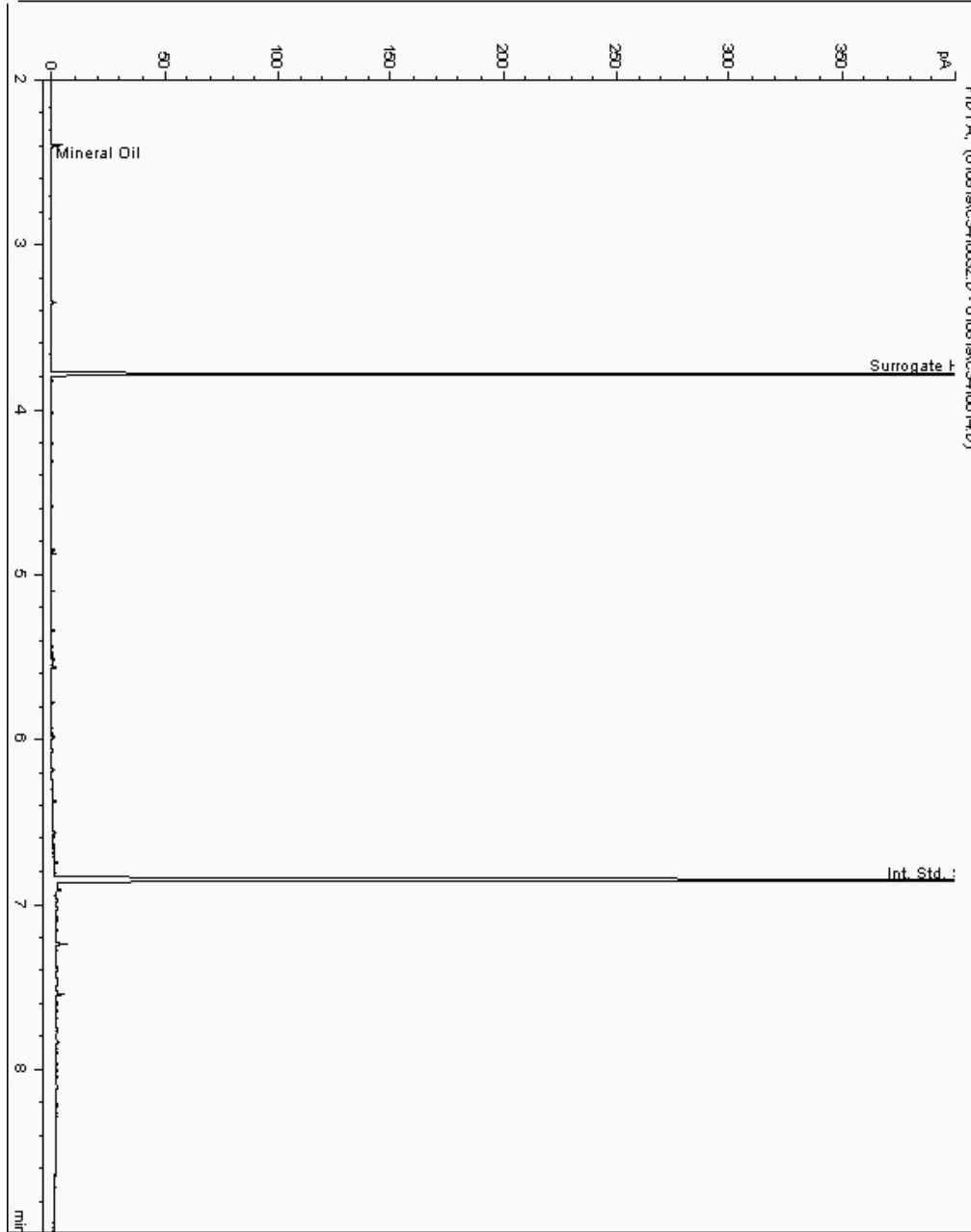
Analysis: Mineral Oil
19031699

Sample No :
Sample ID : BH214

19,031,699Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881746-
Date Acquired : 08/01/19 18:30:01 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

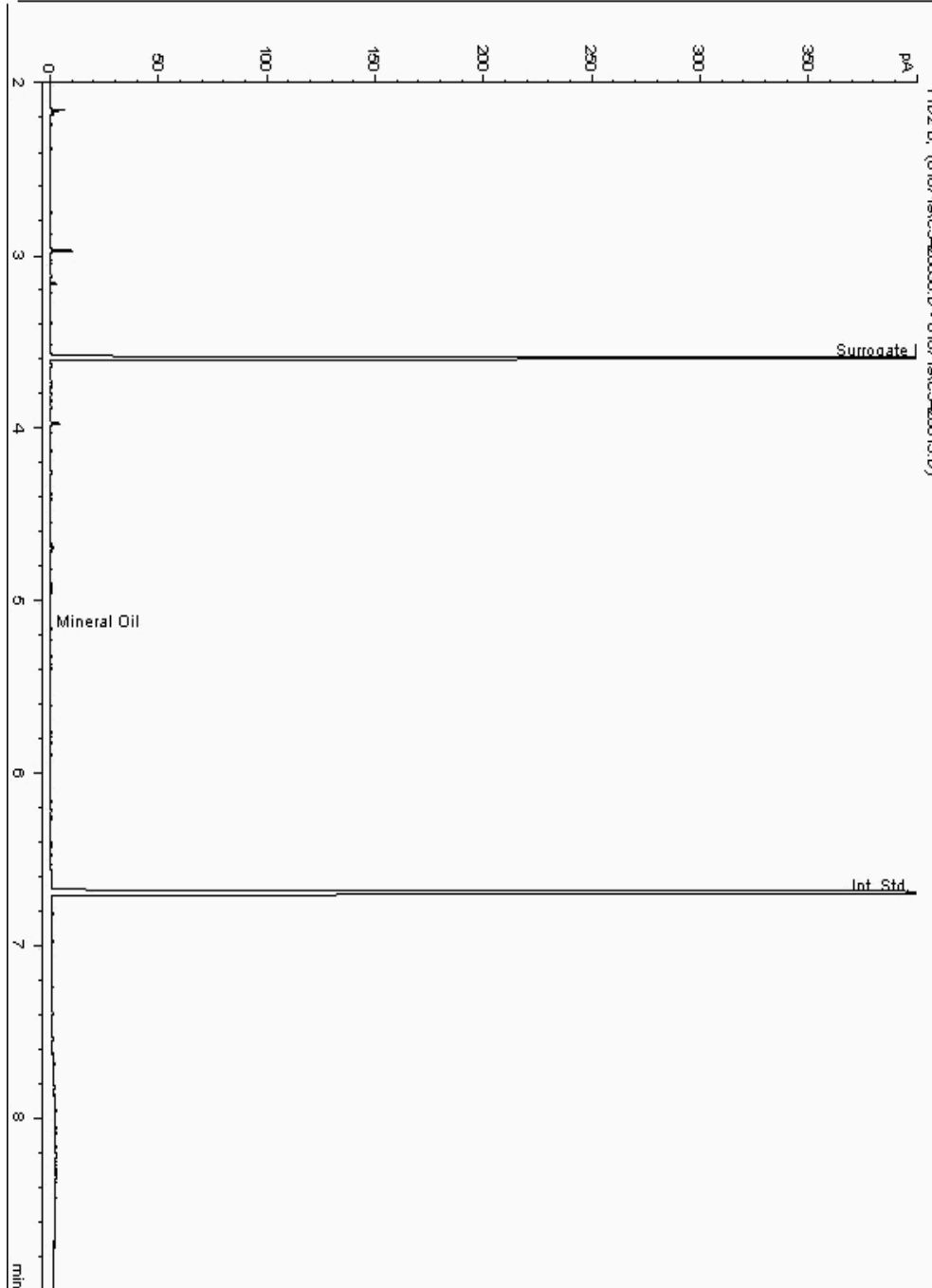
Analysis: Mineral Oil
19031913

Sample No :
Sample ID : BH217

19,031,913 Depth : 10.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881585-
Date Acquired : 07/01/2019 18:16:32 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

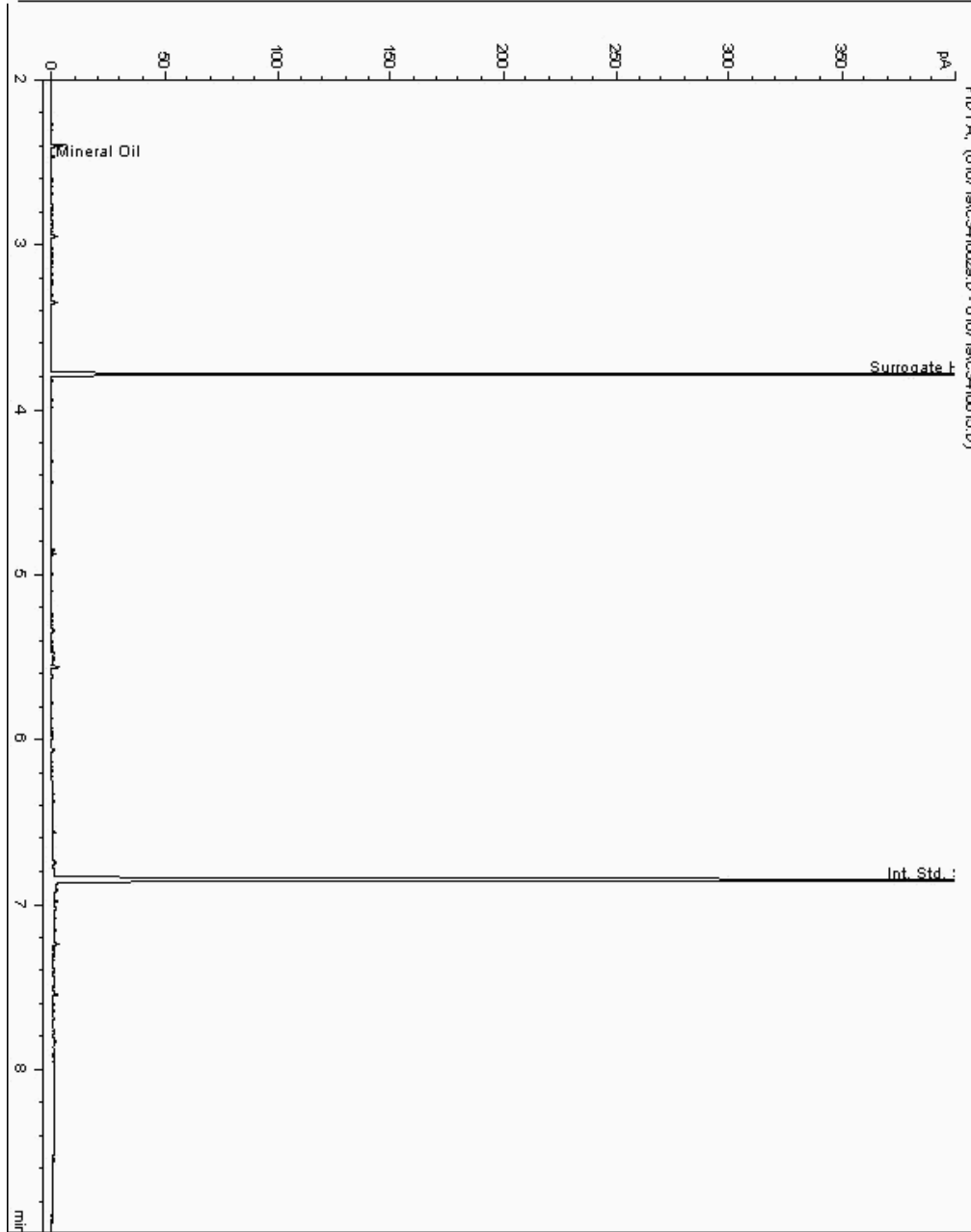
Analysis: Mineral Oil
19031969

Sample No :
Sample ID : BH216

19,031,969Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881956-
Date Acquired : 07/01/19 20:03:50 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

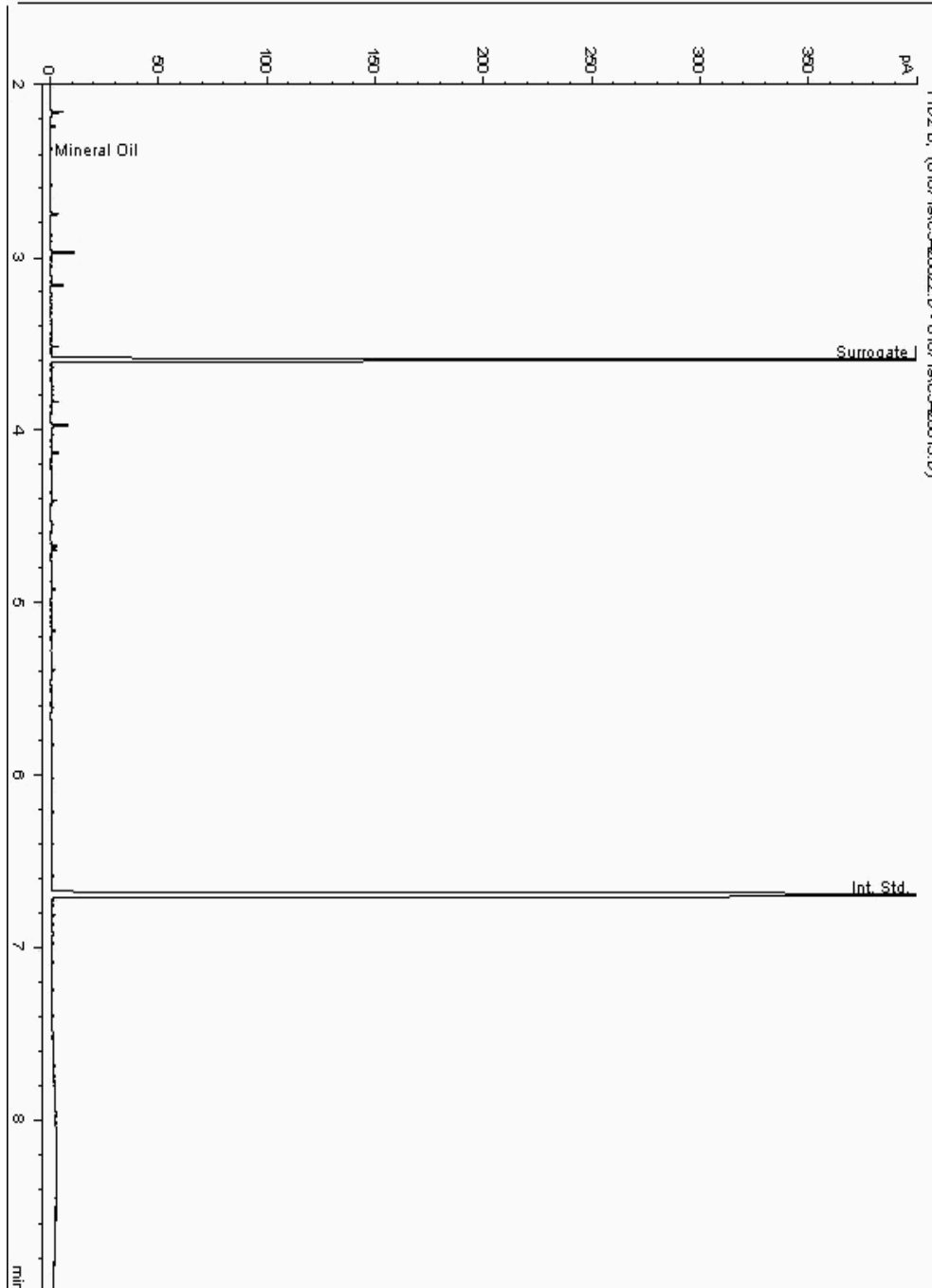
Analysis: Mineral Oil
19031970

Sample No :
Sample ID : BH215

19,031,970Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881031-
Date Acquired : 07/01/2019 15:56:34 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

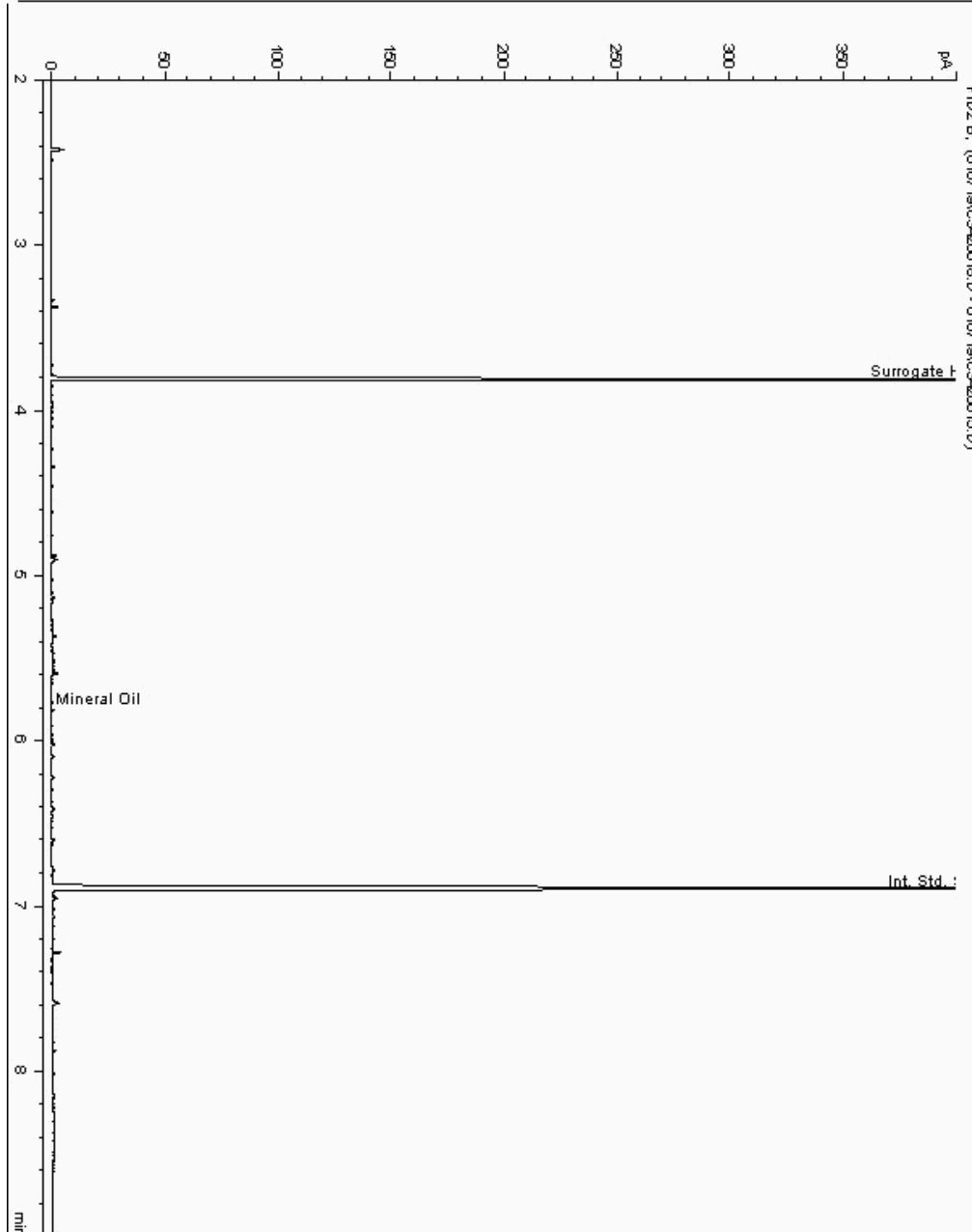
Analysis: Mineral Oil
19032026

Sample No :
Sample ID : BH214

19,032,026 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881793-
Date Acquired : 07/01/19 16:46:17 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

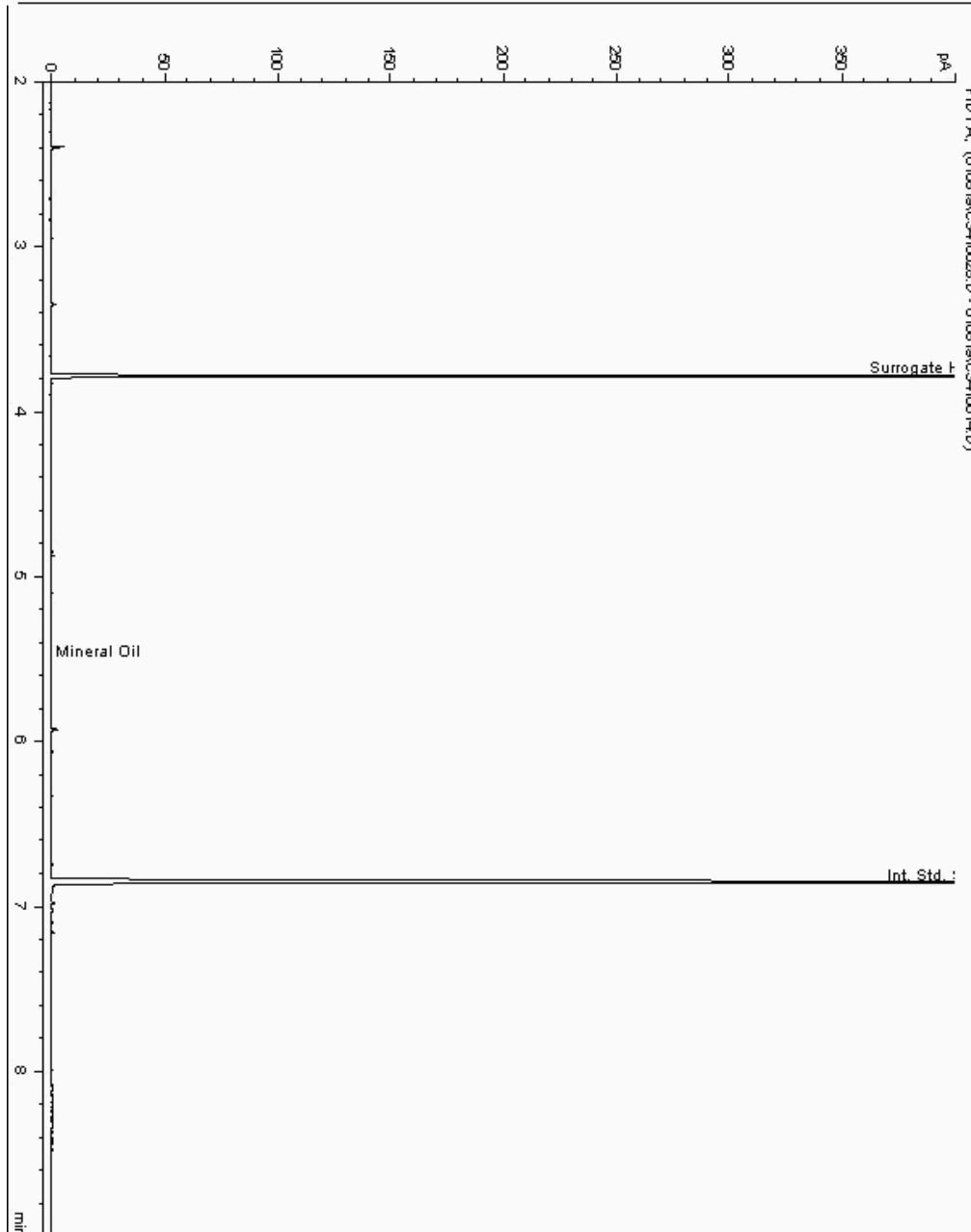
Analysis: Mineral Oil
19032080

Sample No :
Sample ID : BH216

19,032,080 Depth : 11.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17882120-
Date Acquired : 08/01/19 17:08:49 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

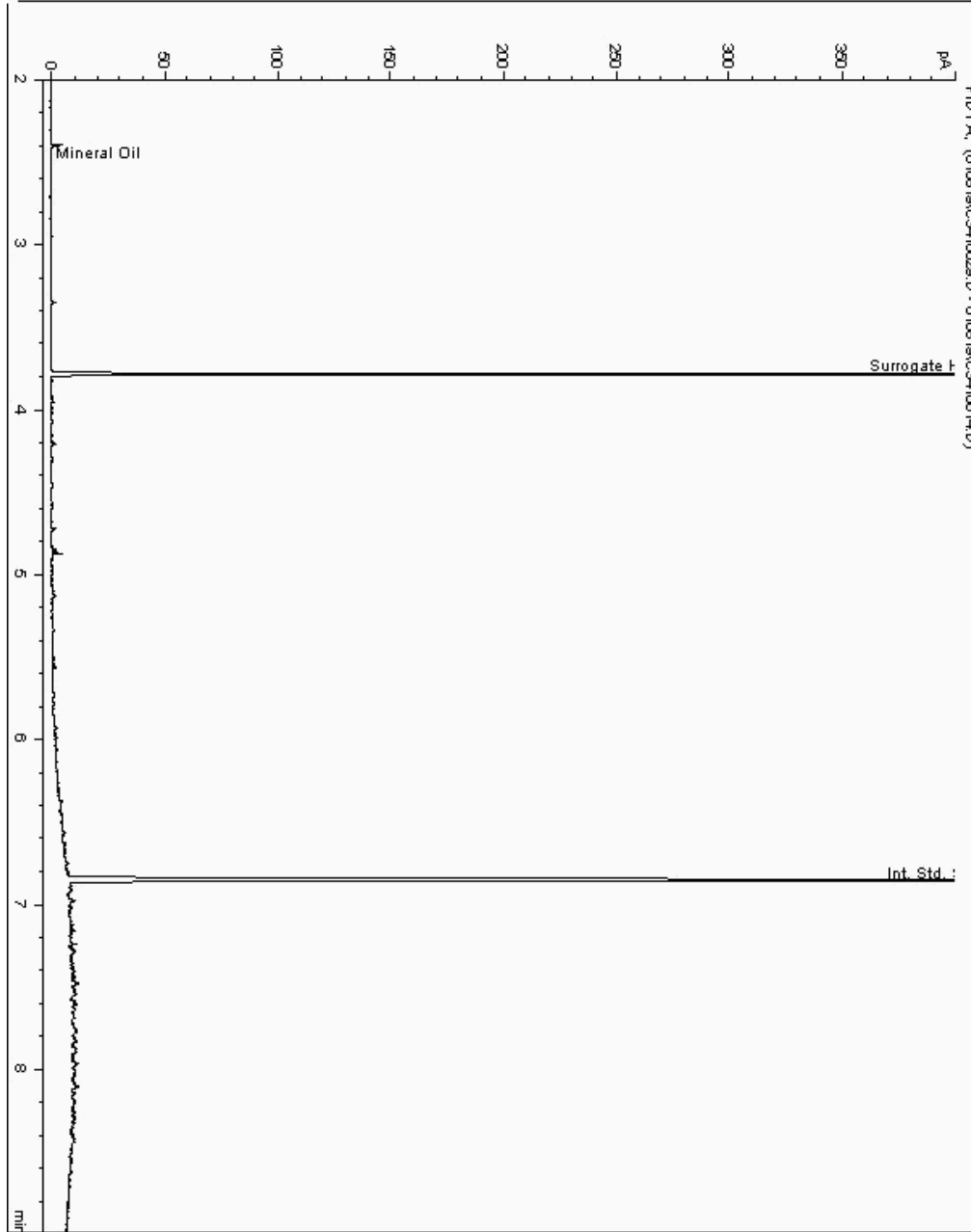
Analysis: Mineral Oil
19032146

Sample No :
Sample ID : BH217

19,032,146Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881979-
Date Acquired : 08/01/19 17:29:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

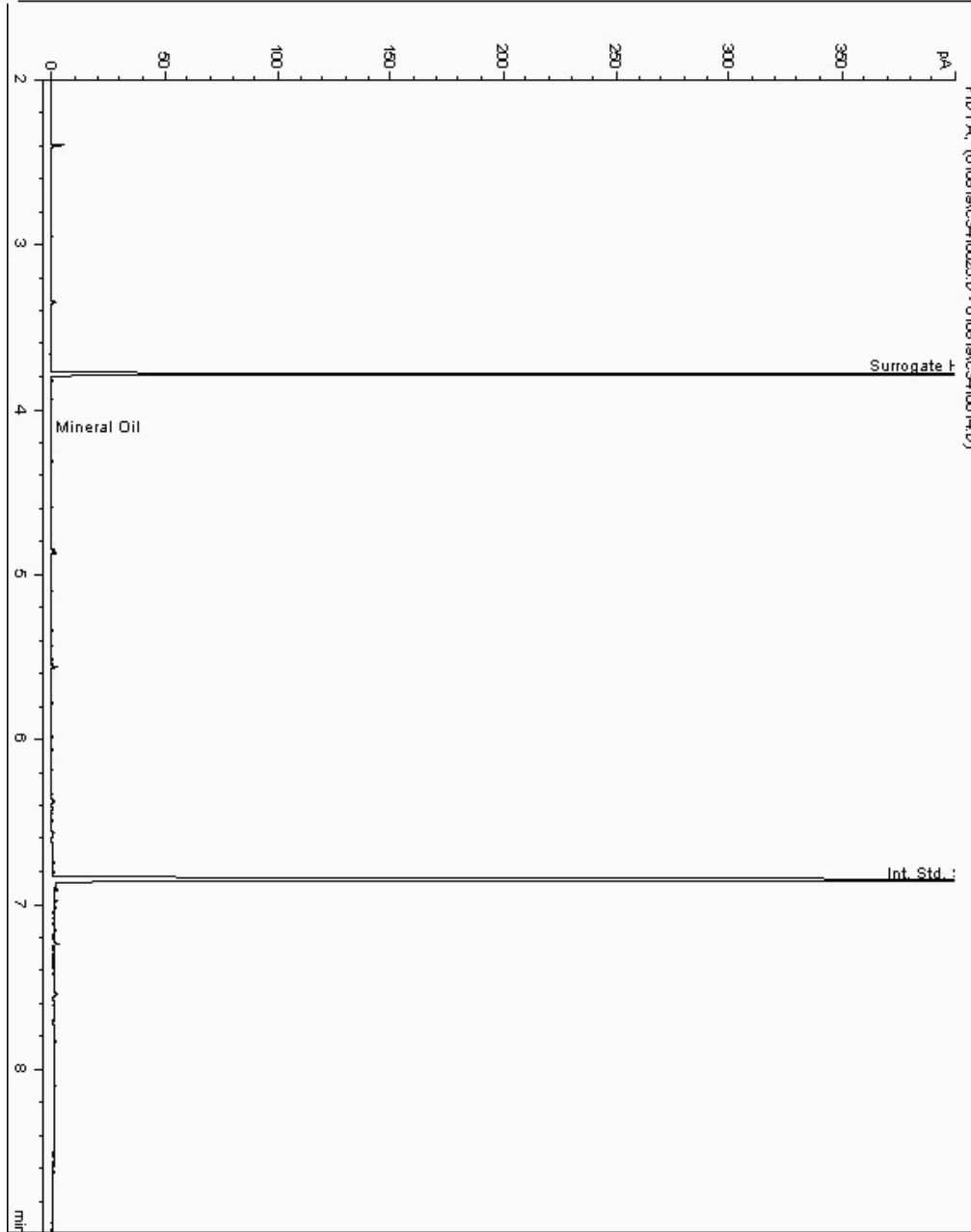
Analysis: Mineral Oil
19032191

Sample No :
Sample ID : BH216

19,032,191 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881842-
Date Acquired : 08/01/19 16:16:35 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

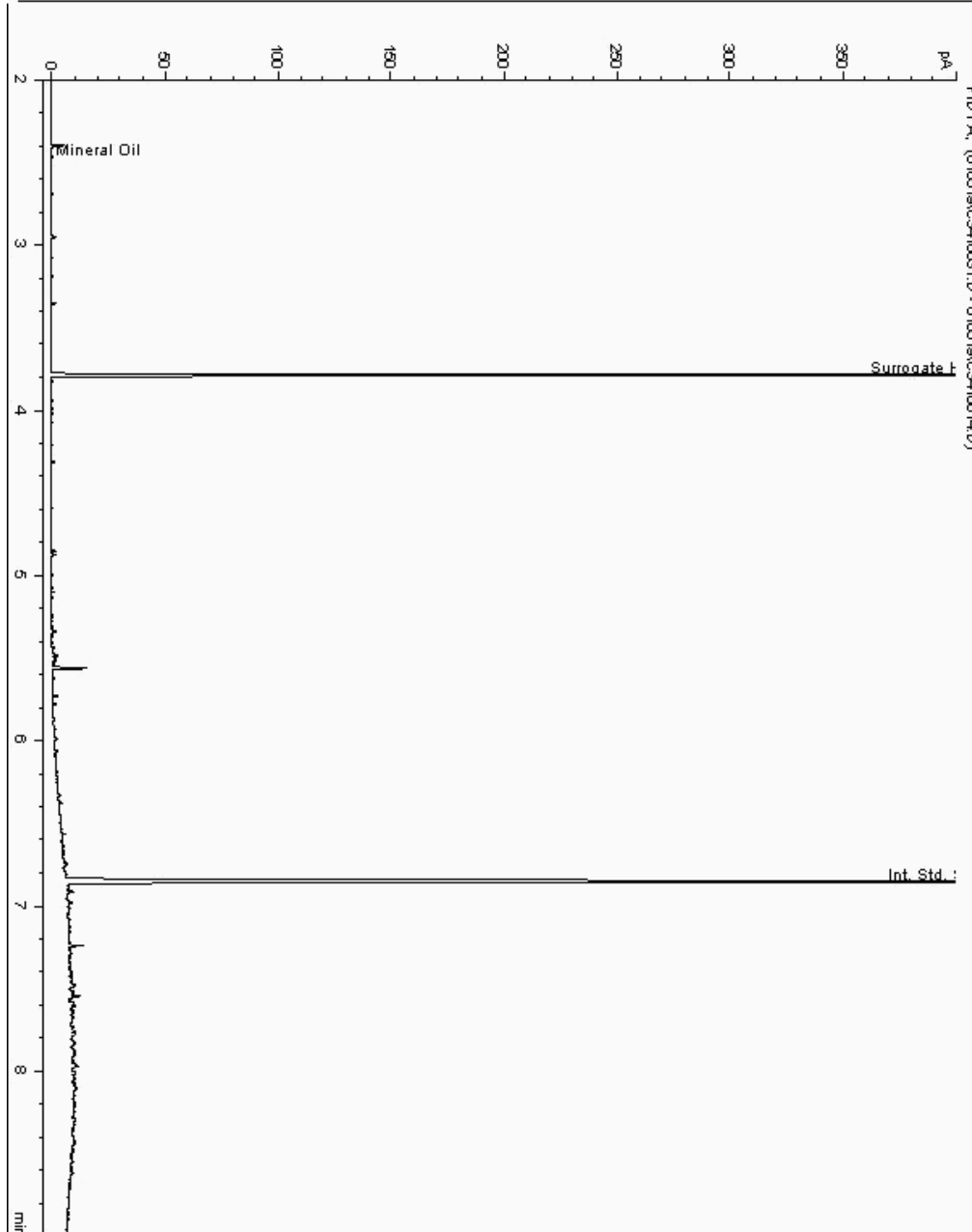
Analysis: Mineral Oil
19032267

Sample No :
Sample ID : BH216

19,032,267Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881864-
Date Acquired : 05/01/19 19:05:57 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

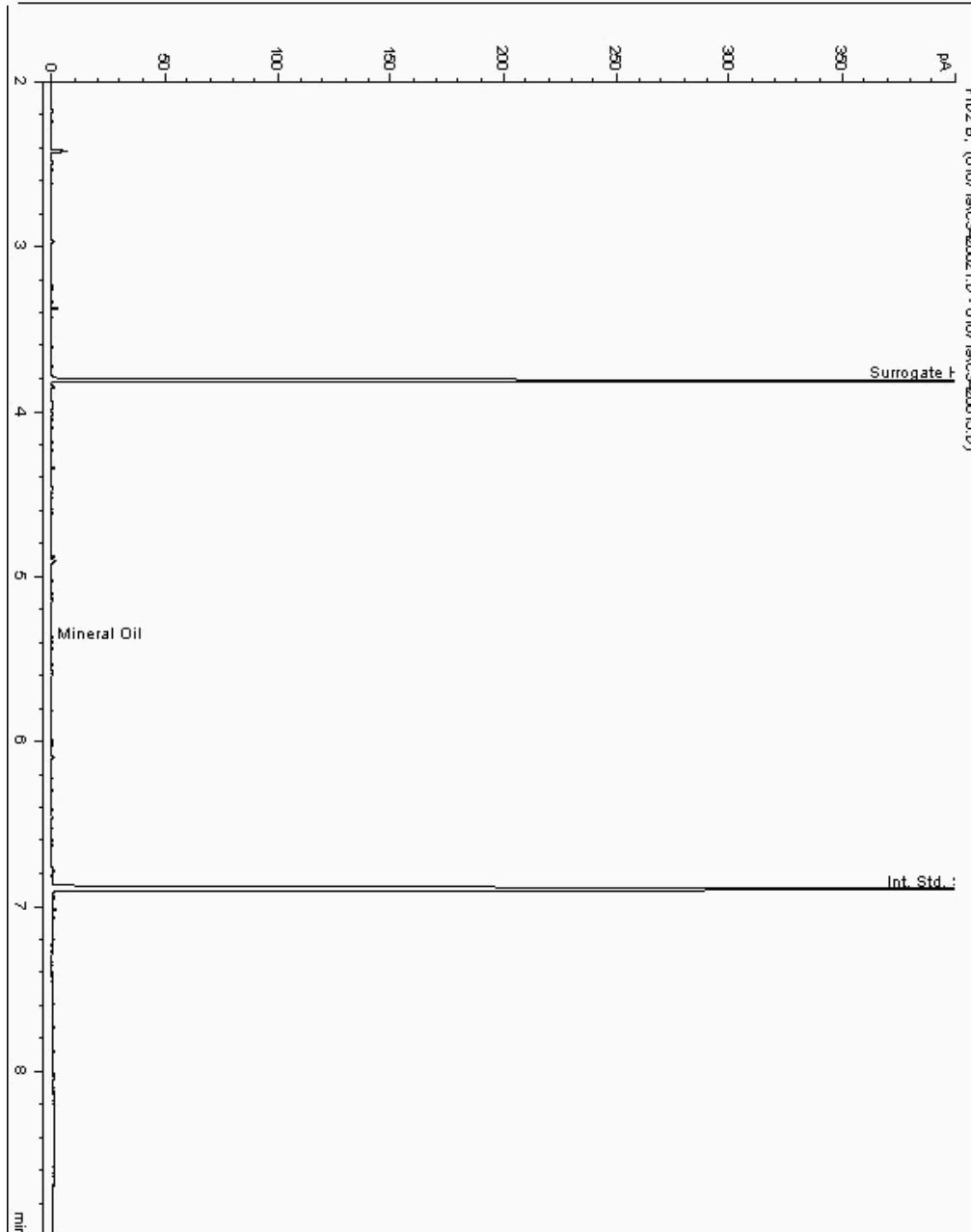
Analysis: Mineral Oil
19032270

Sample No :
Sample ID : BH215

19,032,270 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881053-
Date Acquired : 07/01/19 17:38:36 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

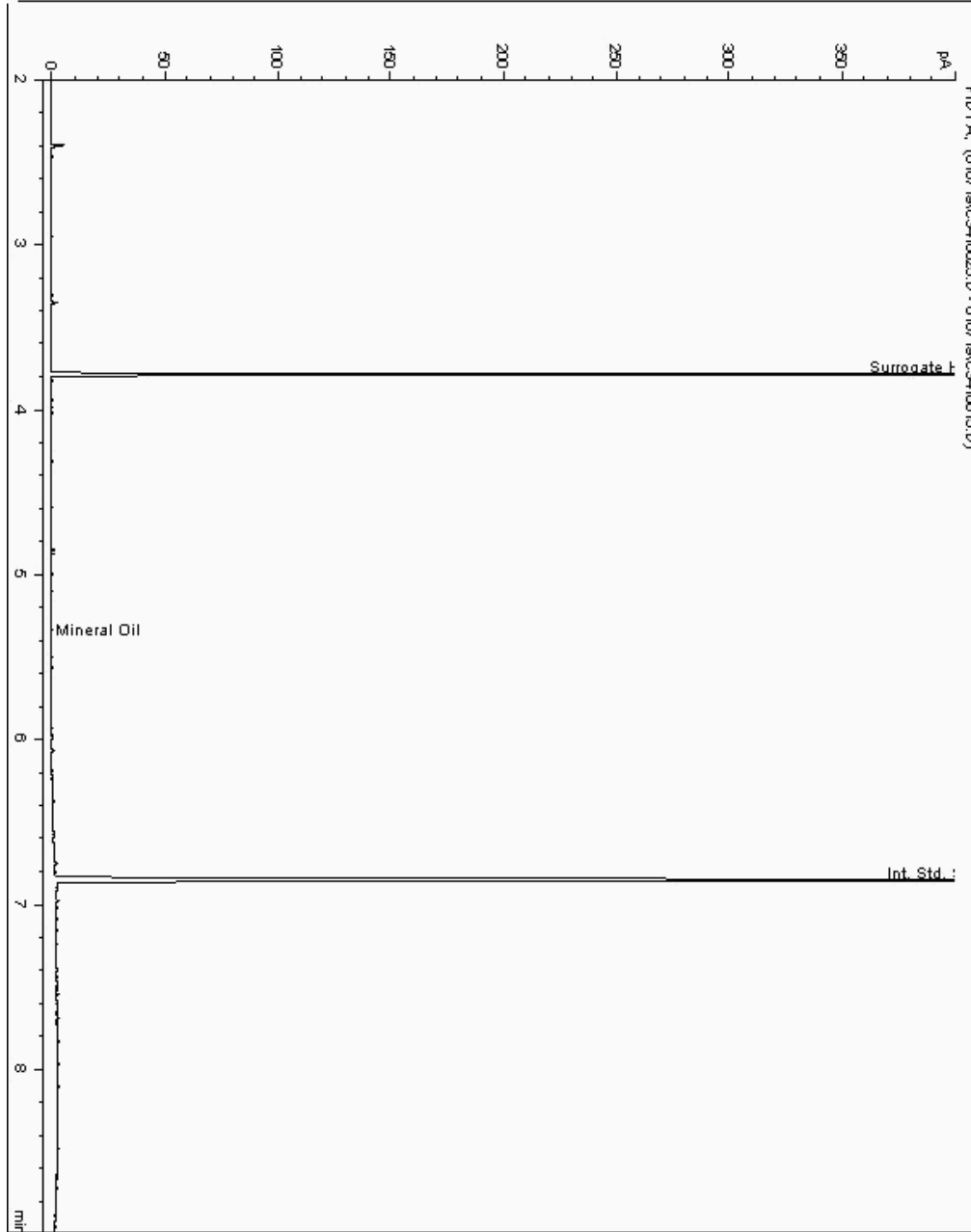
Analysis: Mineral Oil
19032279

Sample No :
Sample ID : BH216

19,032,279 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881142-
Date Acquired : 07/01/19 18:51:03 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

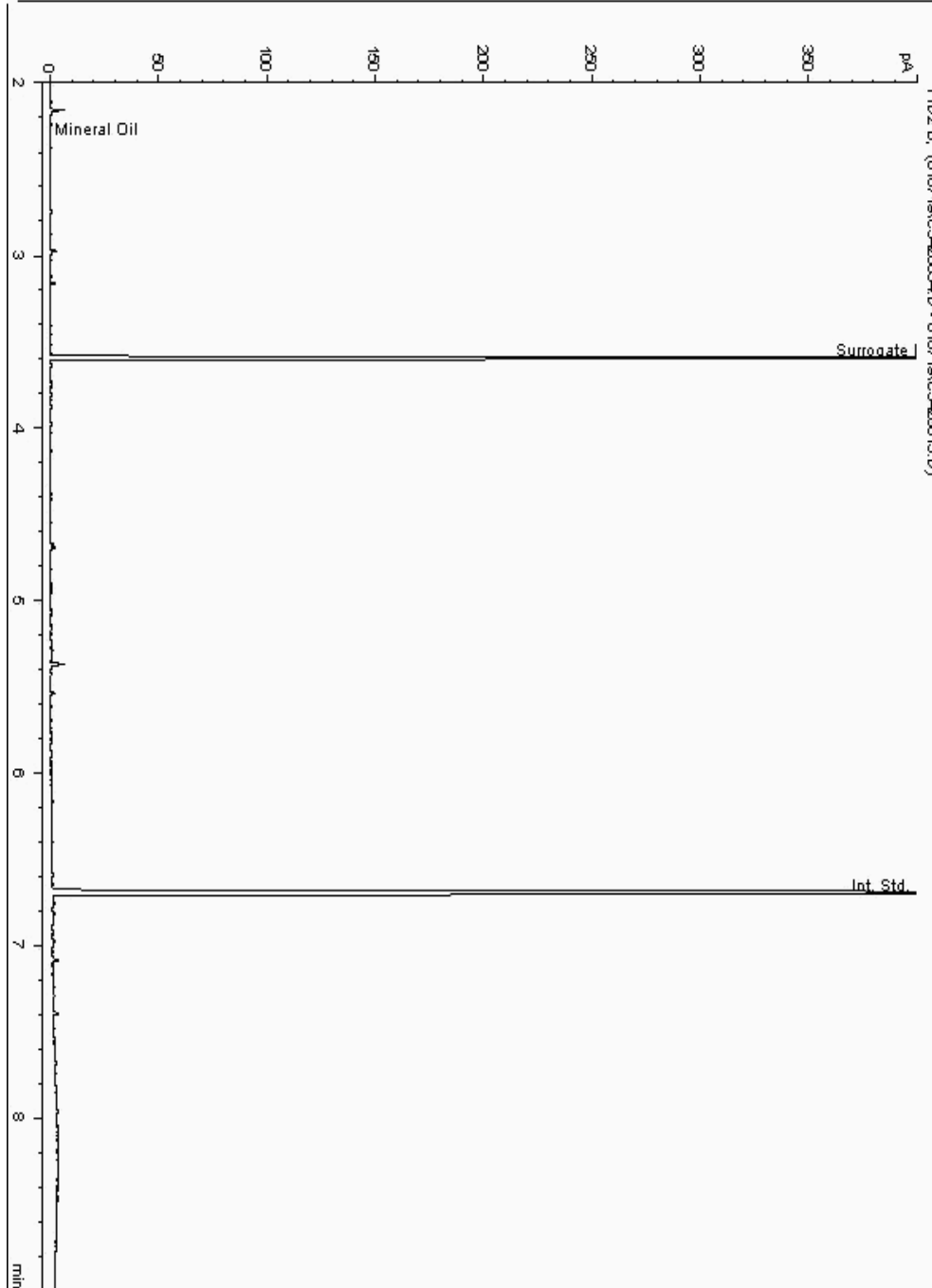
Analysis: Mineral Oil
19032338

Sample No :
Sample ID : BH216

19,032,338 Depth : 6.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881910-
Date Acquired : 07/01/2019 19:30:56 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

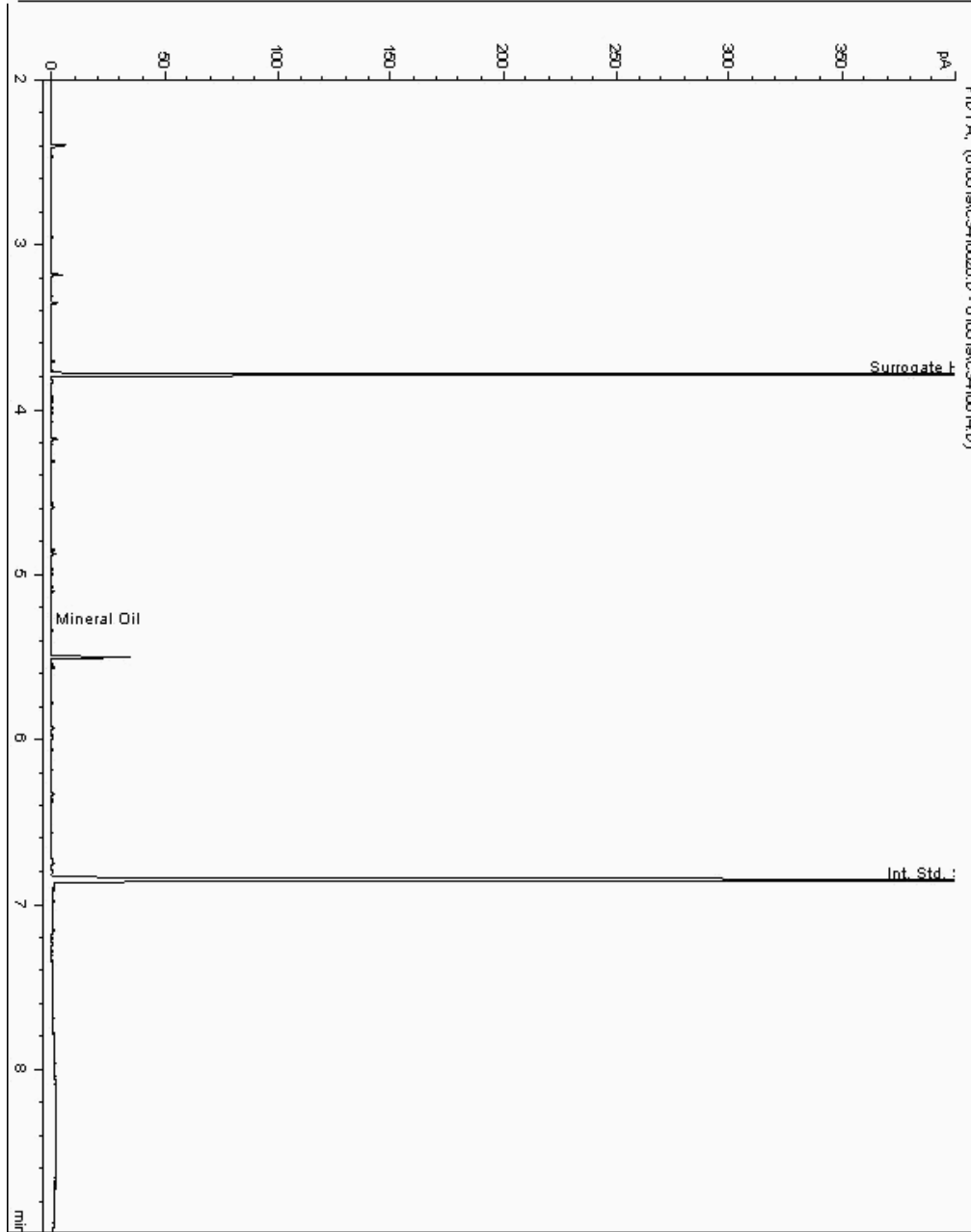
Analysis: Mineral Oil
19032390

Sample No :
Sample ID : BH217

19,032,390 Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881629-
Date Acquired : 05/01/19 15:49:46 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

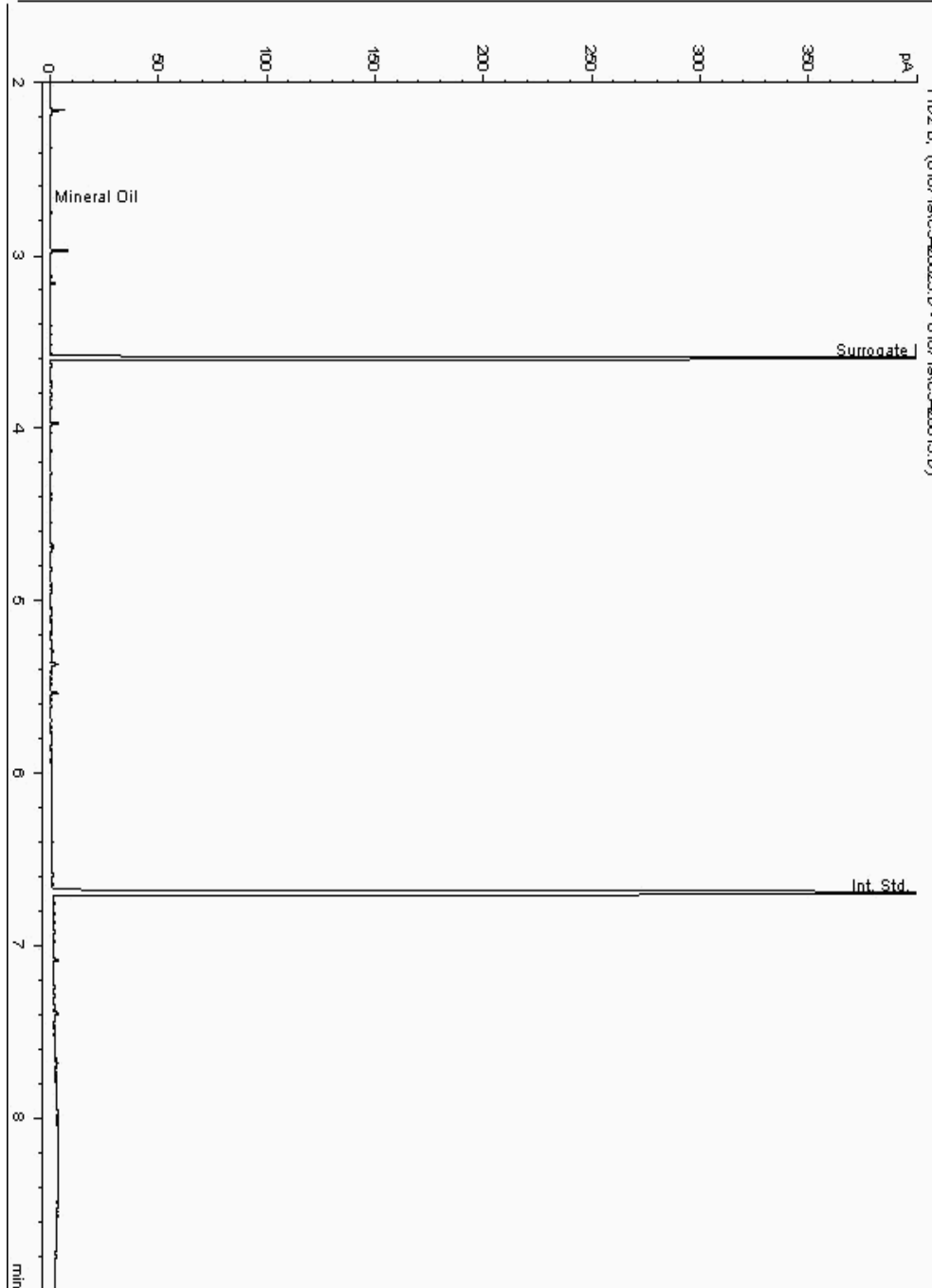
Analysis: Mineral Oil
19032411

Sample No :
Sample ID : BH214

19,032,411Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881675-
Date Acquired : 07/01/2019 16:17:31 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

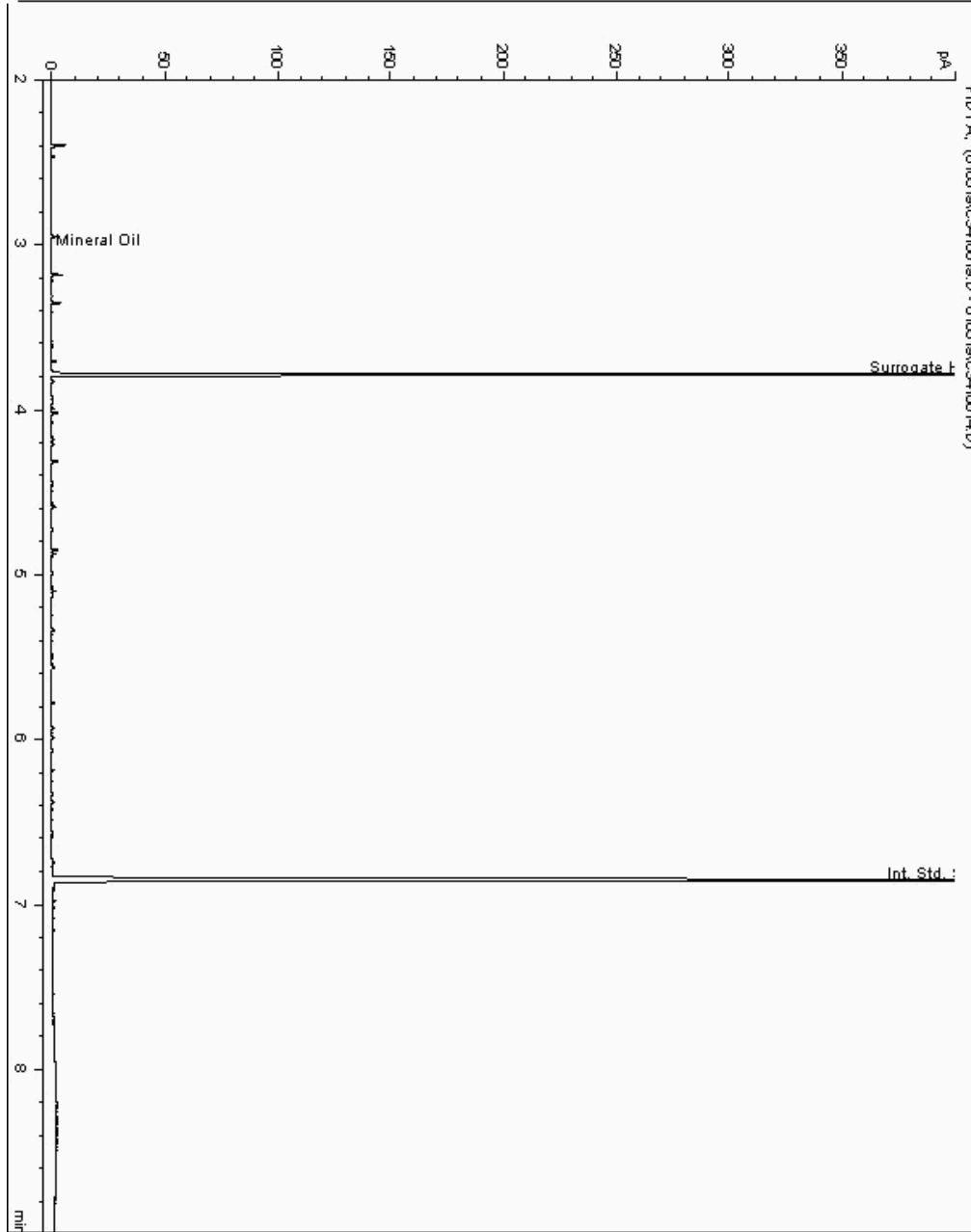
Analysis: Mineral Oil
19032558

Sample No :
Sample ID : BH216

19,032,558 Depth : 15.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881119-
Date Acquired : 05/01/19 15:29:39 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

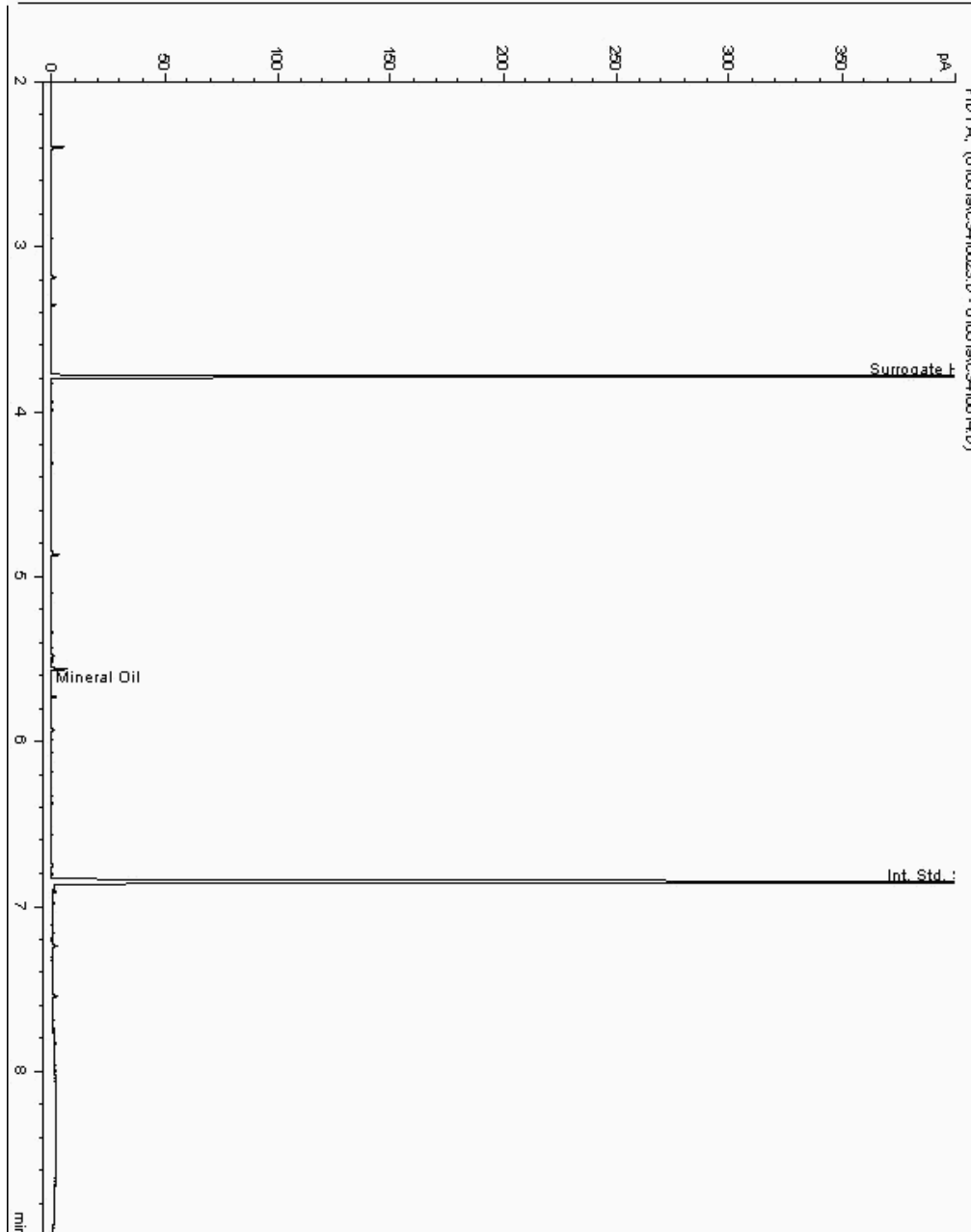
Analysis: Mineral Oil
19032653

Sample No :
Sample ID : BH216

19,032,653Depth :5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881933-
Date Acquired : 05/01/19 16:50:12 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

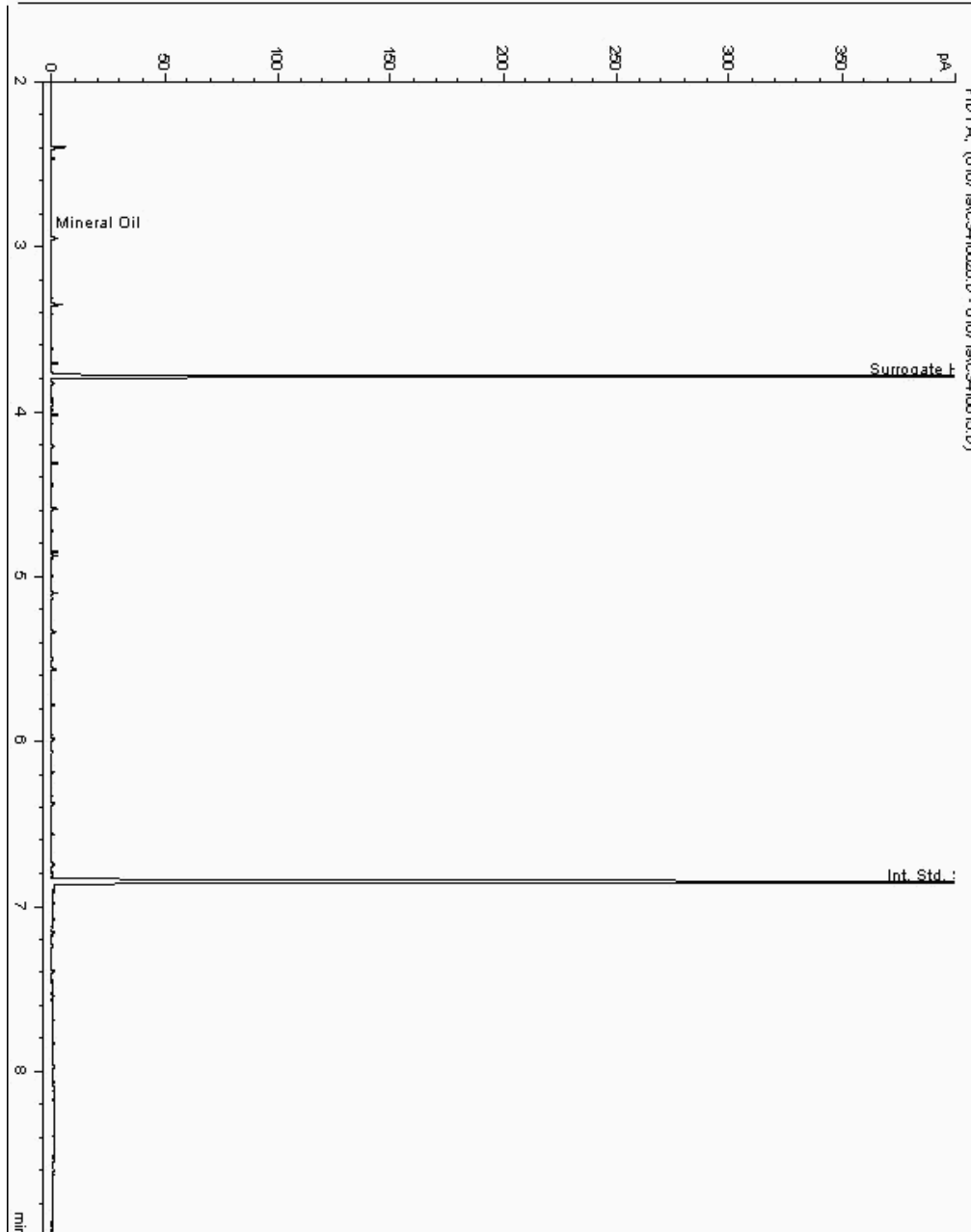
Analysis: Mineral Oil
19032659

Sample No :
Sample ID : BH214

19,032,659 Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881401-
Date Acquired : 07/01/19 17:18:29 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

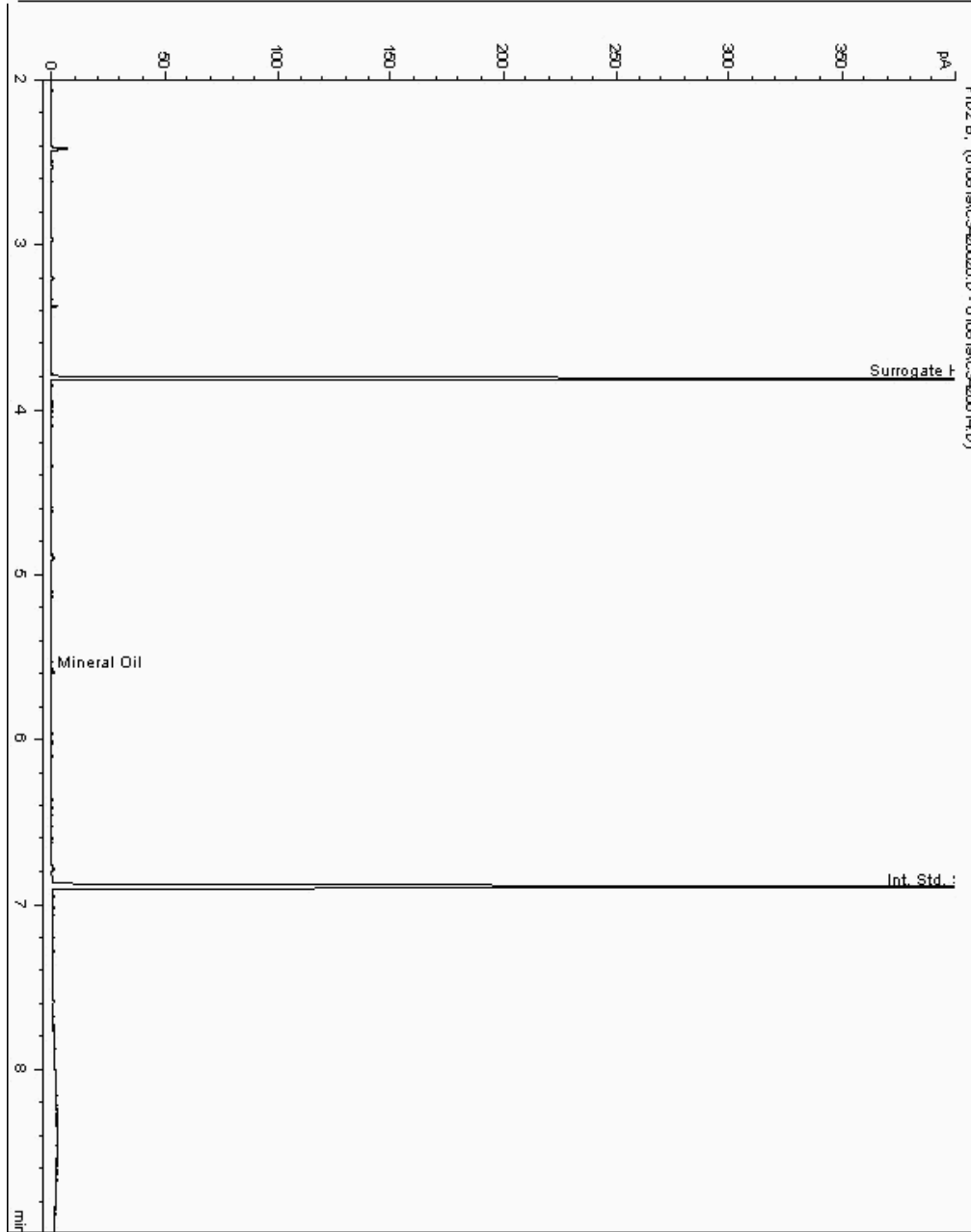
Analysis: Mineral Oil
19032720

Sample No :
Sample ID : BH215

19,032,720Depth :6.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881516-
Date Acquired : 08/01/19 14:35:34 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

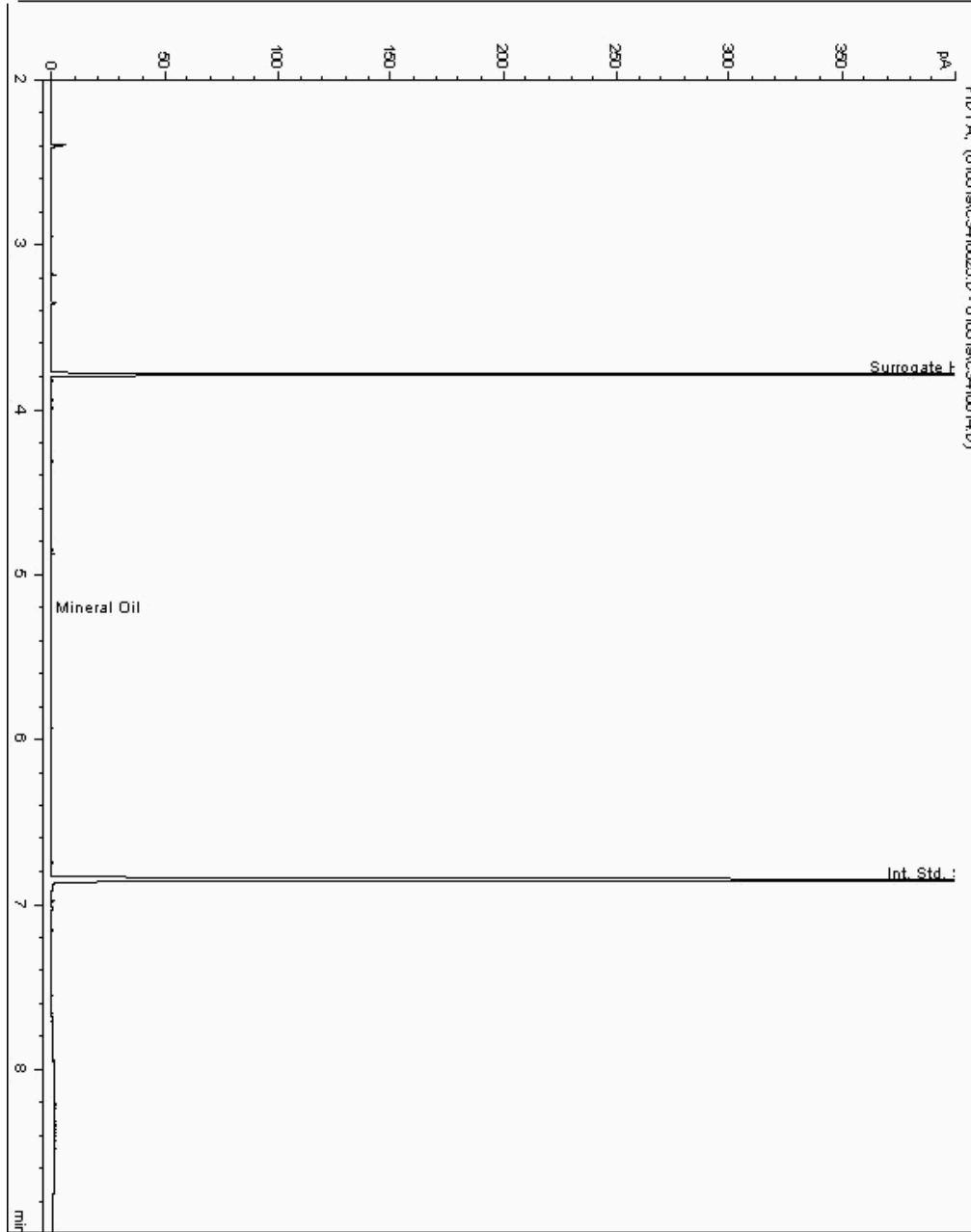
Analysis: Mineral Oil
19032776

Sample No :
Sample ID : BH216

19,032,776Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881097-
Date Acquired : 05/01/19 17:21:55 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

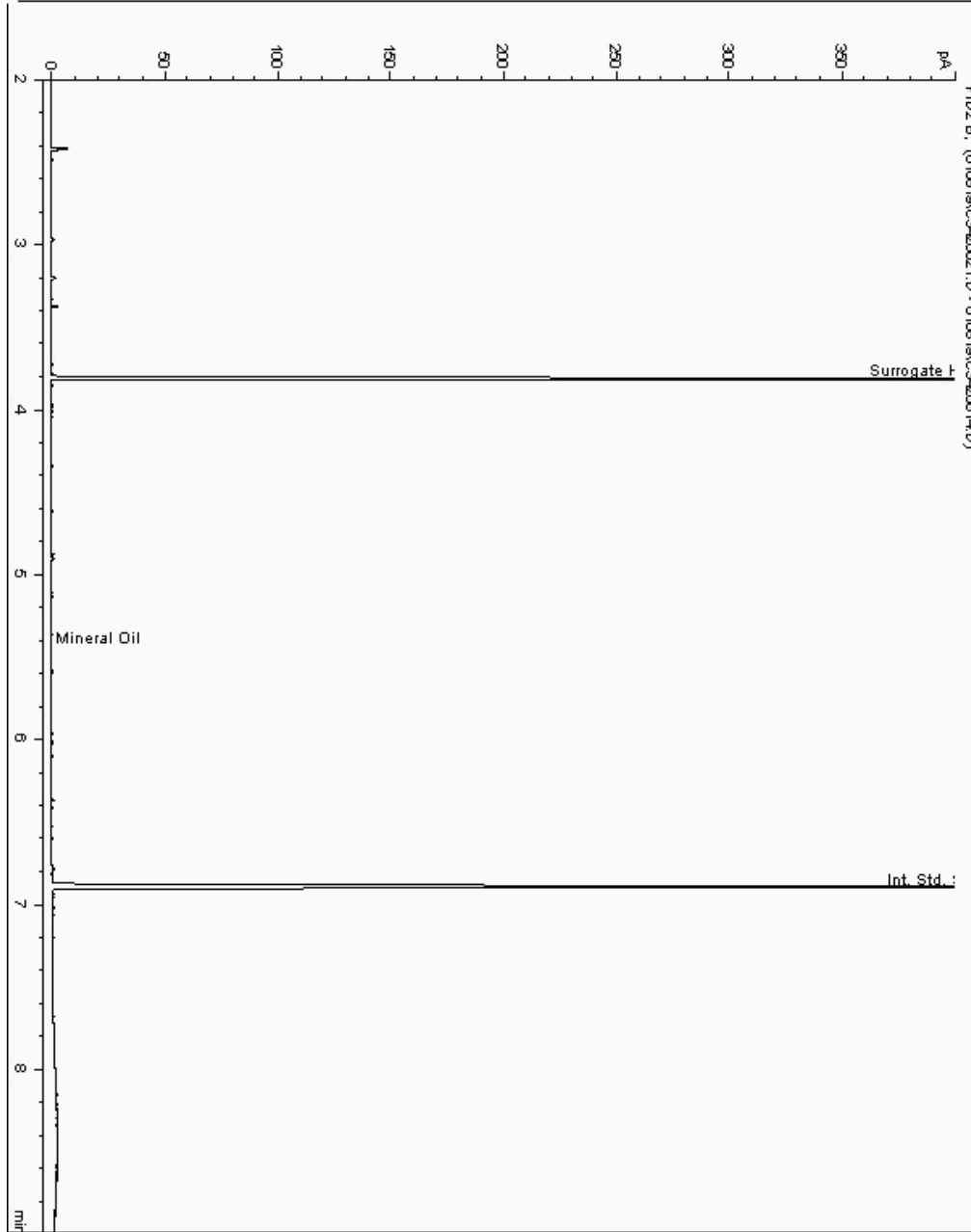
Analysis: Mineral Oil
19032834

Sample No :
Sample ID : BH214

19,032,834 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881333-
Date Acquired : 08/01/19 14:55:47 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

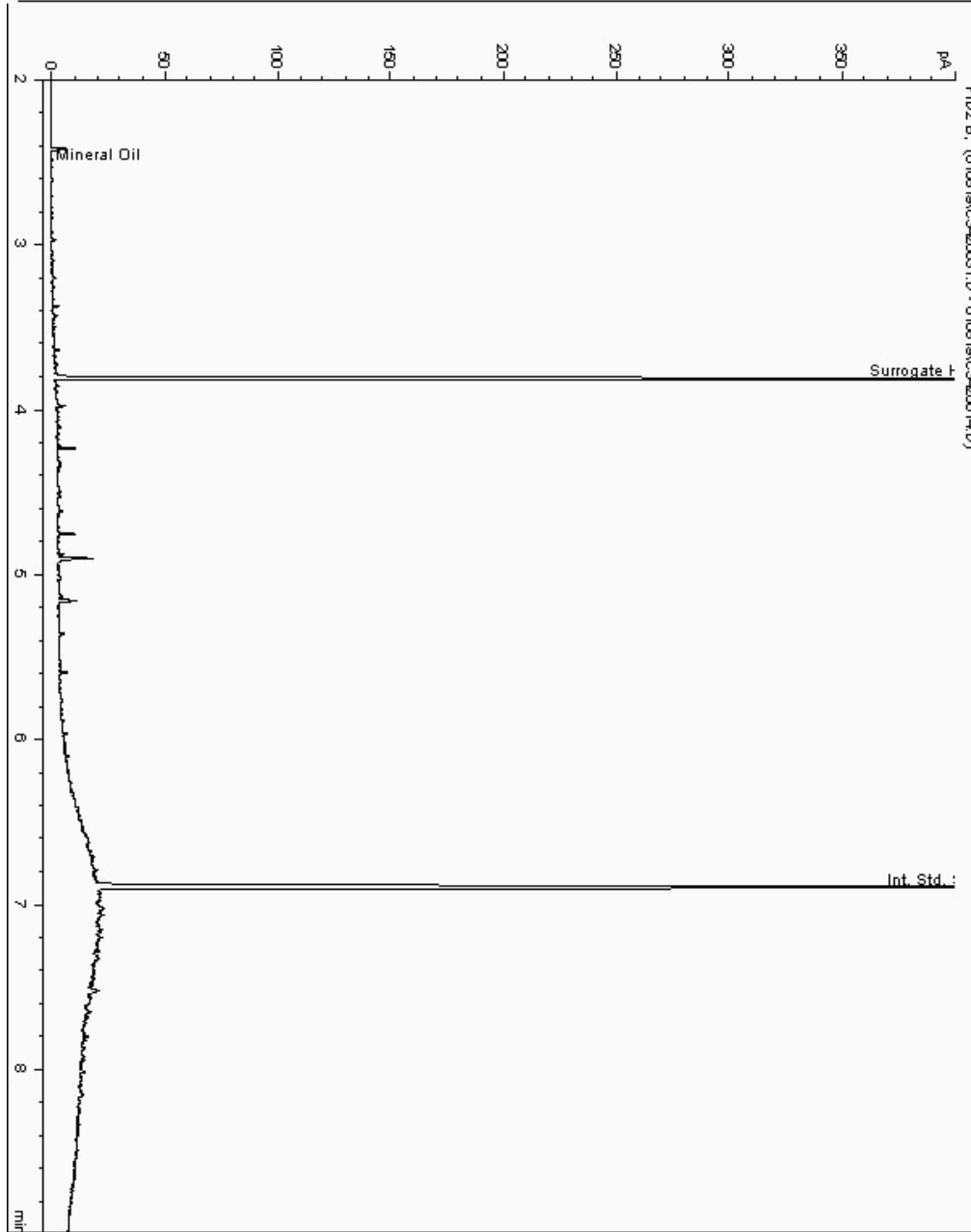
Analysis: Mineral Oil
19032894

Sample No :
Sample ID : BH217

19,032,894Depth :0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17882050-
Date Acquired : 08/01/19 18:09:39 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

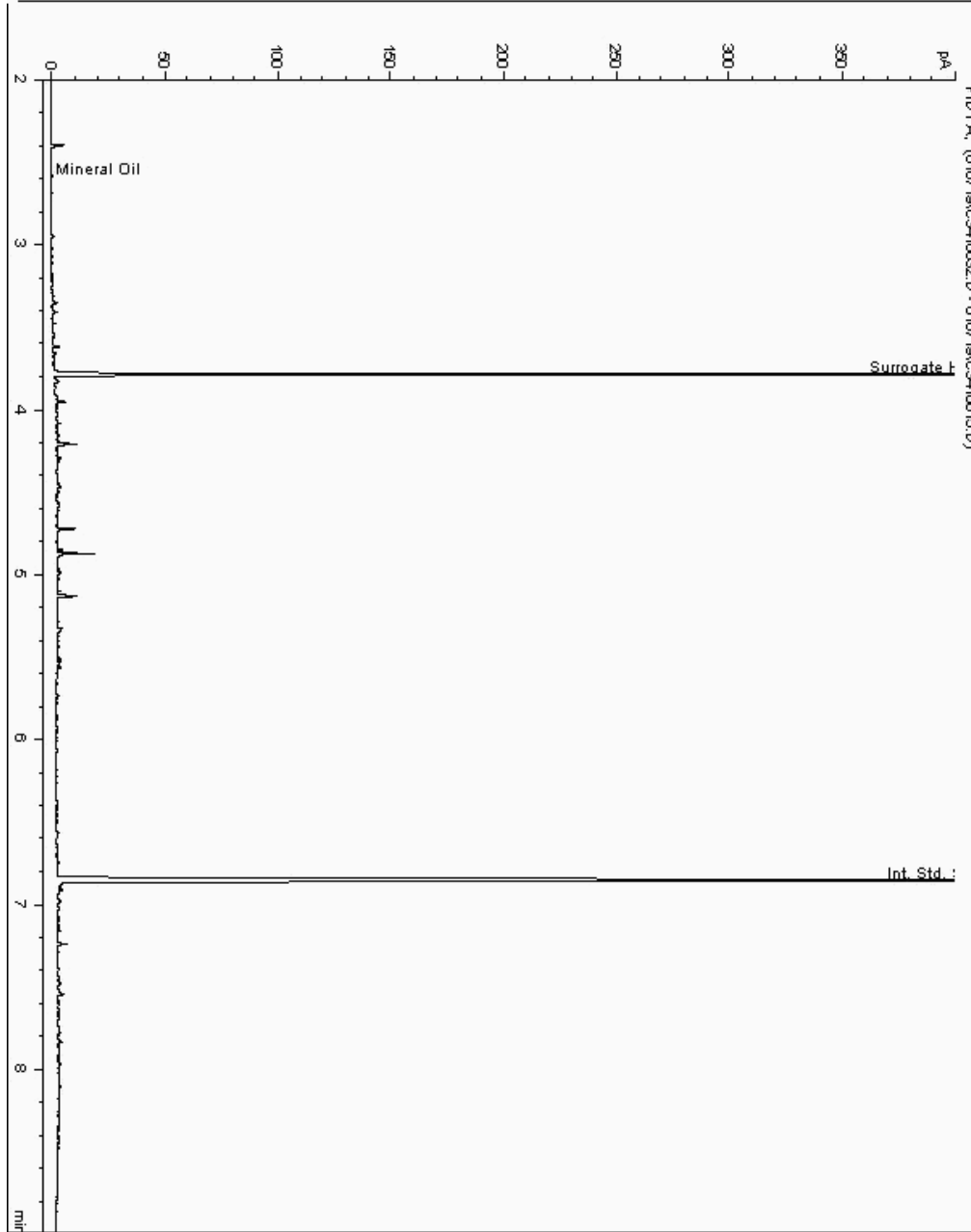
Analysis: Mineral Oil
19032938

Sample No :
Sample ID : BH217

19,032,938Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881470-
Date Acquired : 07/01/19 21:04:14 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

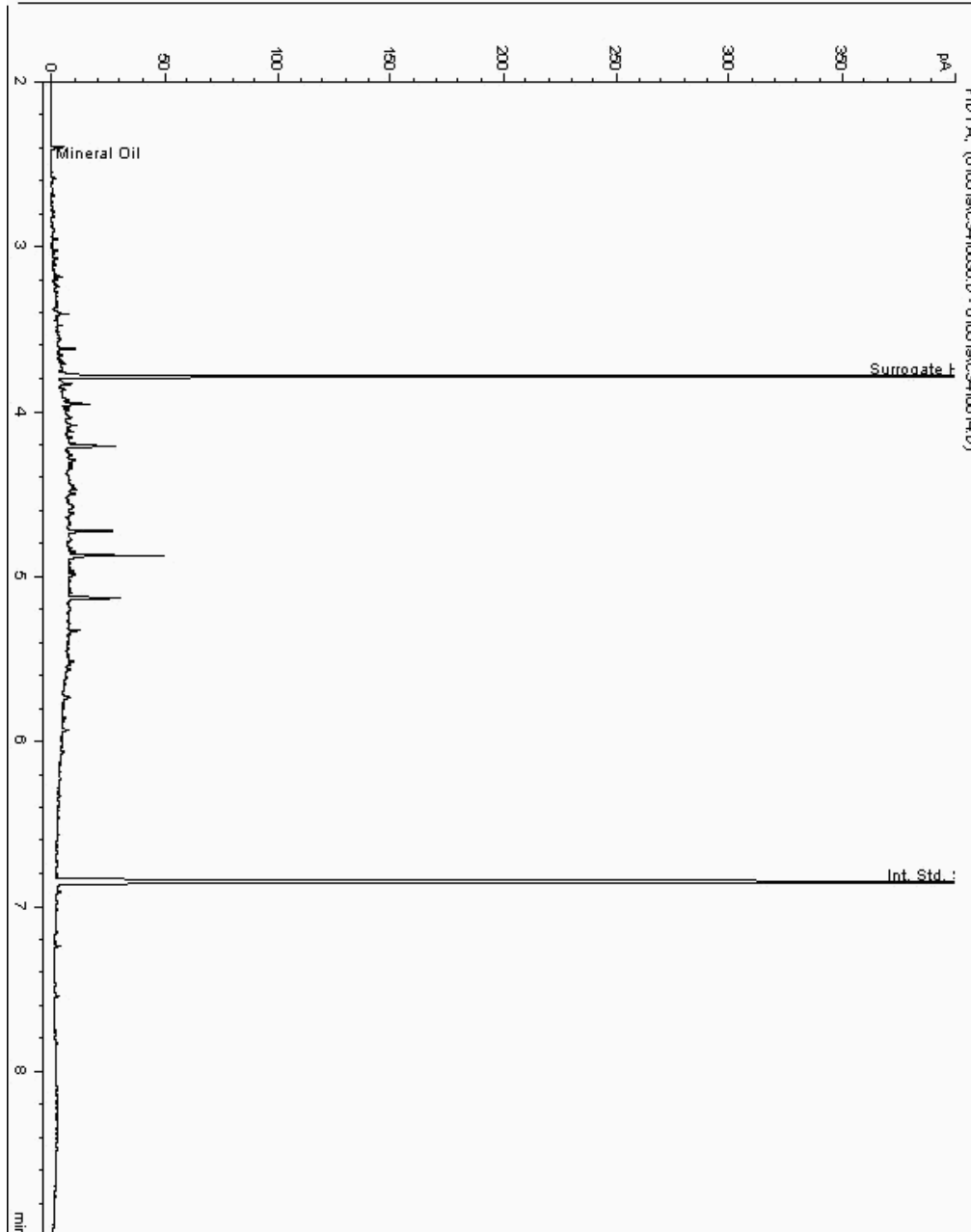
Analysis: Mineral Oil
19032942

Sample No :
Sample ID : BH217

19,032,942Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17882027-
Date Acquired : 05/01/19 18:45:50 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

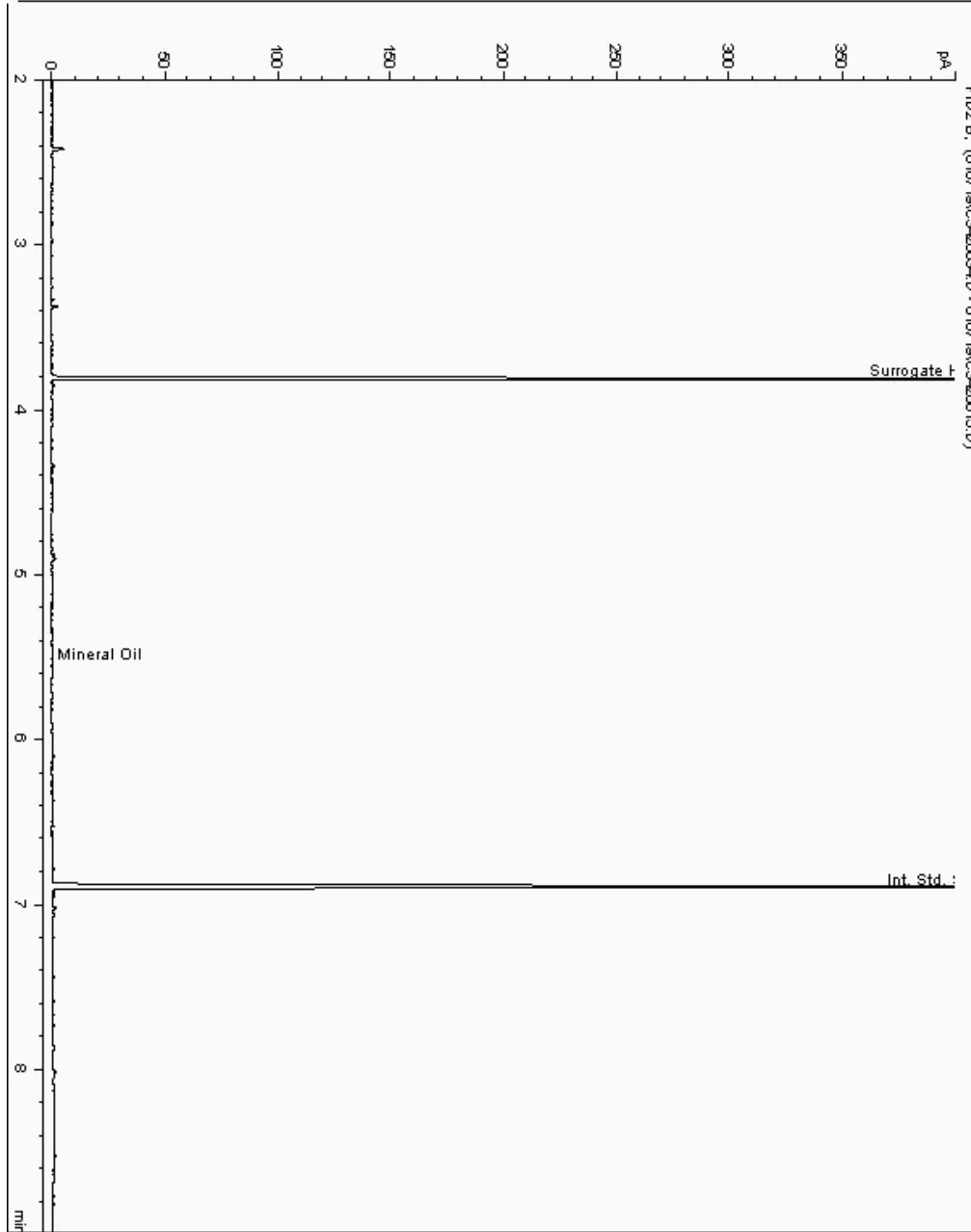
Analysis: Mineral Oil
19033034

Sample No :
Sample ID : BH214

19,033,034Depth :9.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881379-
Date Acquired : 07/01/19 21:36:10 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

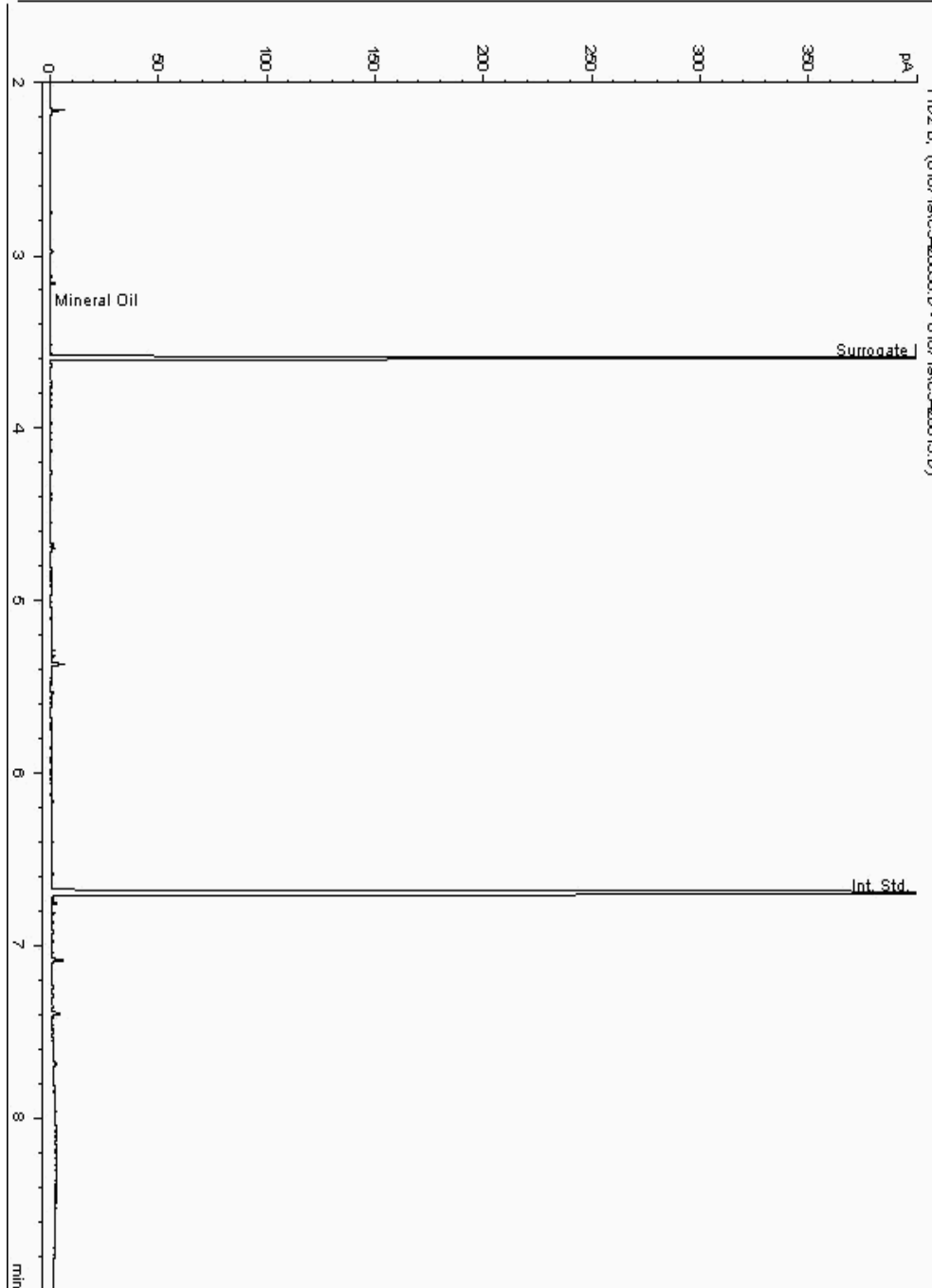
Analysis: Mineral Oil
19033086

Sample No :
Sample ID : BH216

19,033,086Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881816-
Date Acquired : 07/01/2019 20:53:37 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

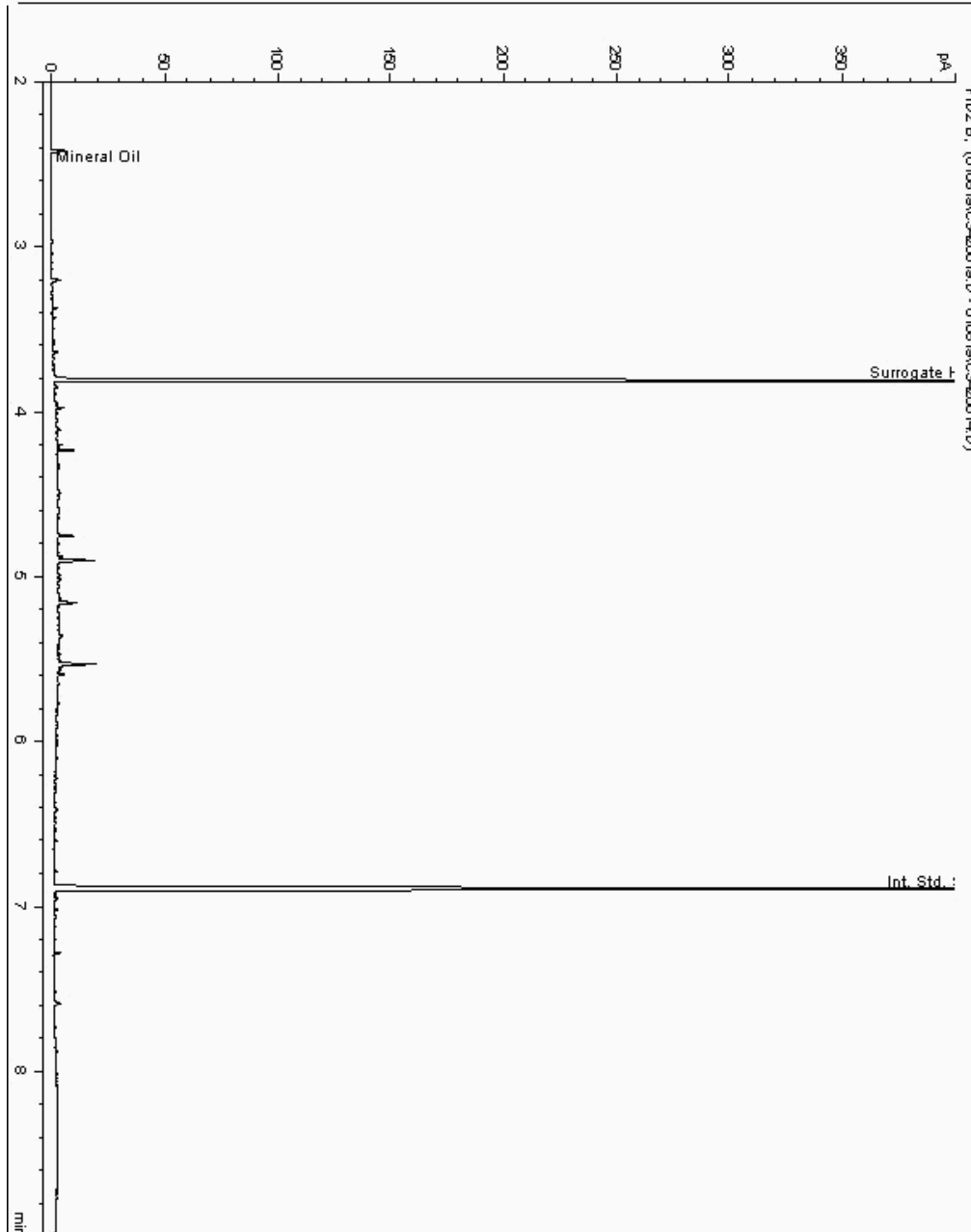
Analysis: Mineral Oil
19033089

Sample No :
Sample ID : BH217

19,033,089Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881447-
Date Acquired : 08/01/19 14:15:31 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

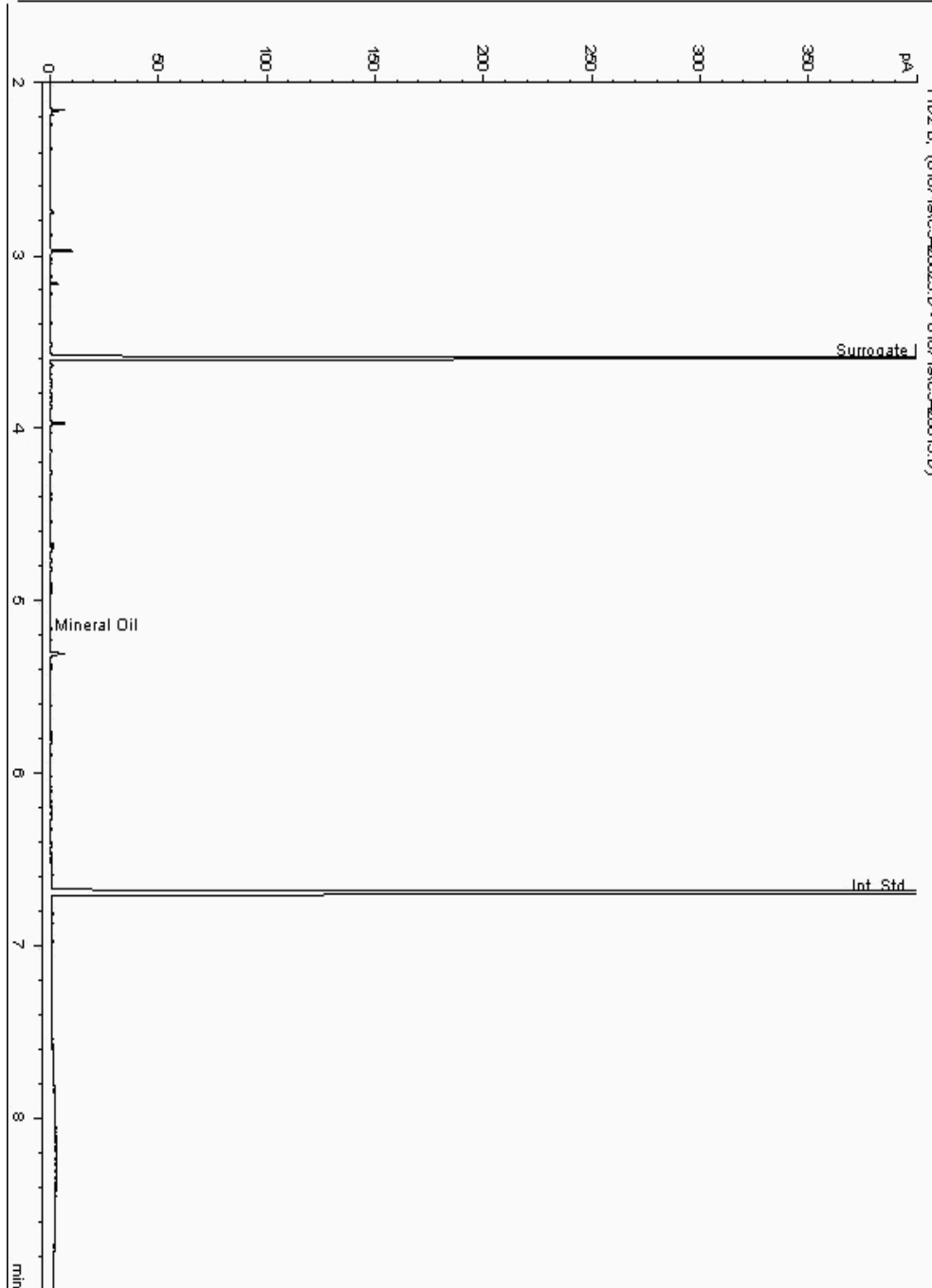
Analysis: Mineral Oil
19033217

Sample No :
Sample ID : BH217

19,033,217Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881164-
Date Acquired : 07/01/2019 16:50:03 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

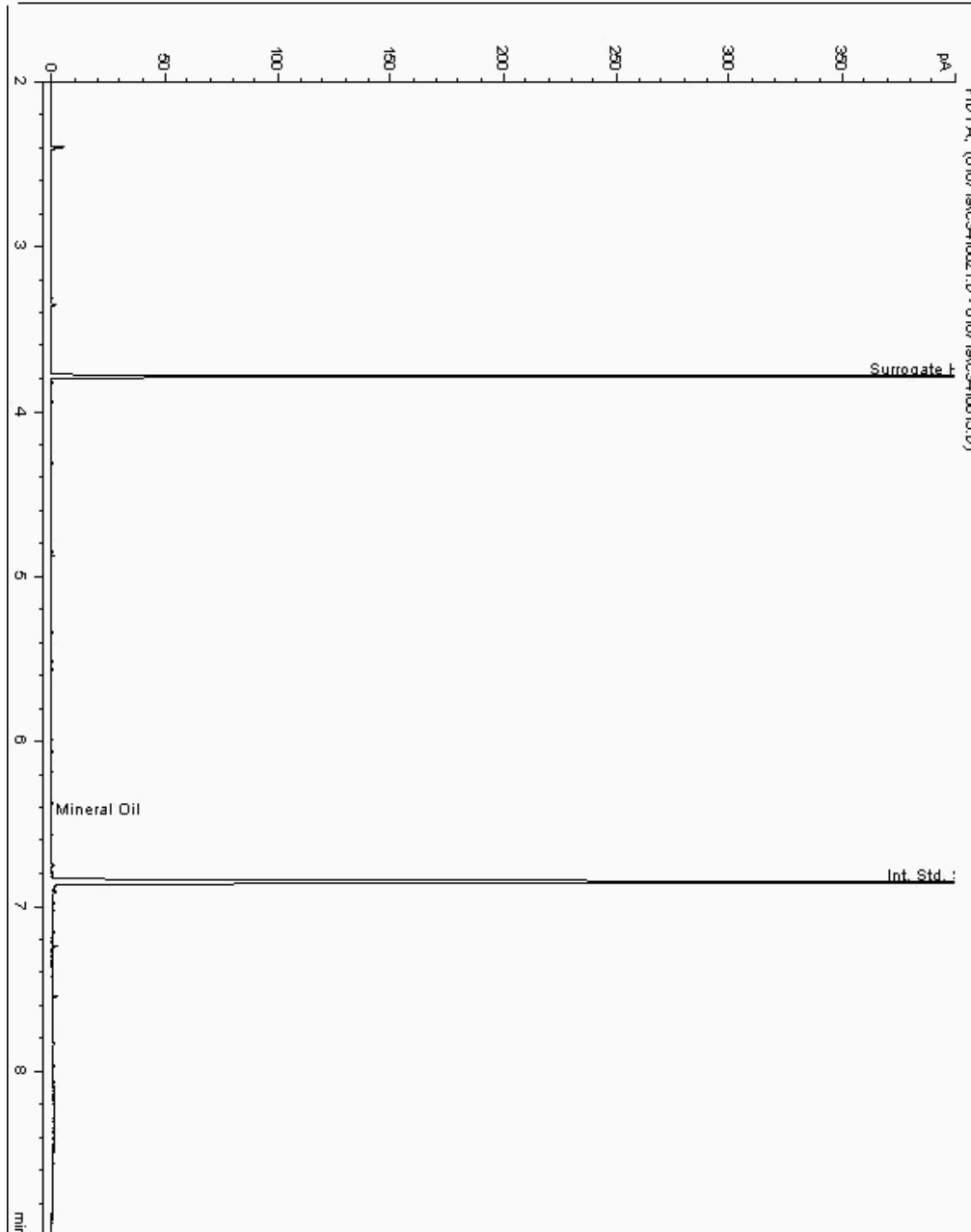
Analysis: Mineral Oil
19033308

Sample No :
Sample ID : BH215

19,033,308Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17882097-
Date Acquired : 07/01/19 17:38:36 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

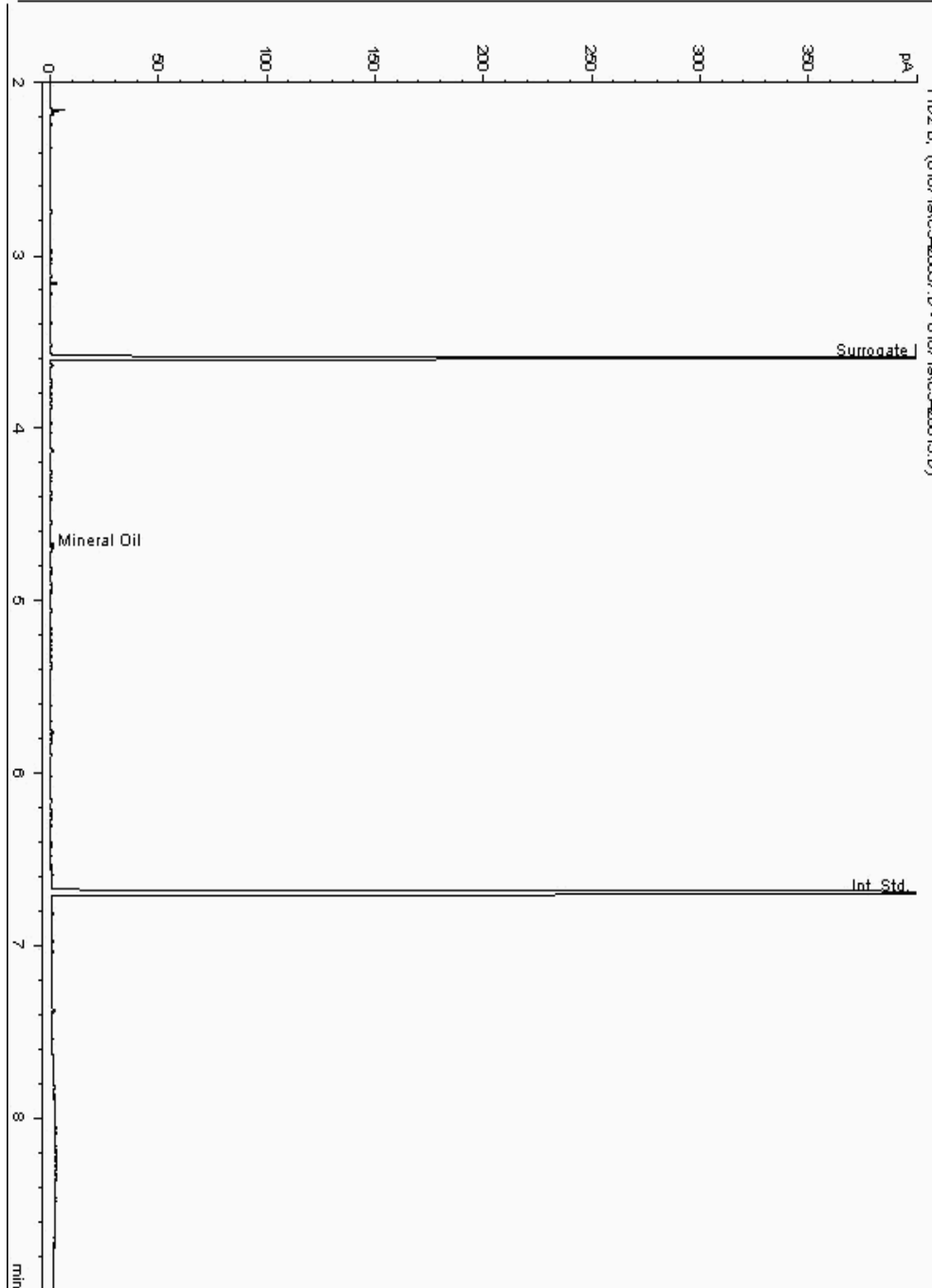
Analysis: Mineral Oil
19033410

Sample No :
Sample ID : BH217

19,033,410 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881562-
Date Acquired : 07/01/2019 20:32:48 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

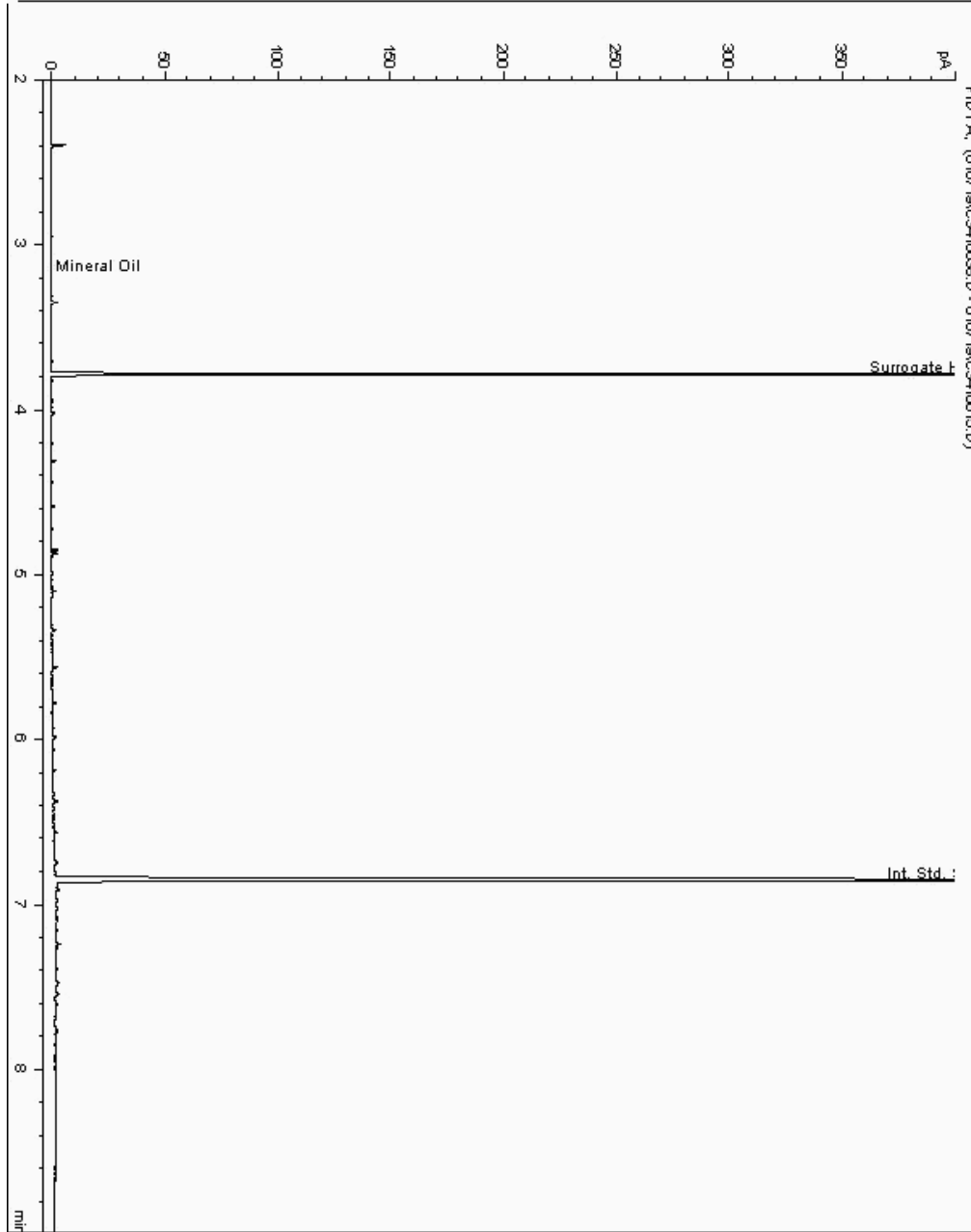
Analysis: Mineral Oil
19033651

Sample No :
Sample ID : BH215

19,033,651 Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881310-
Date Acquired : 07/01/19 22:48:24 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

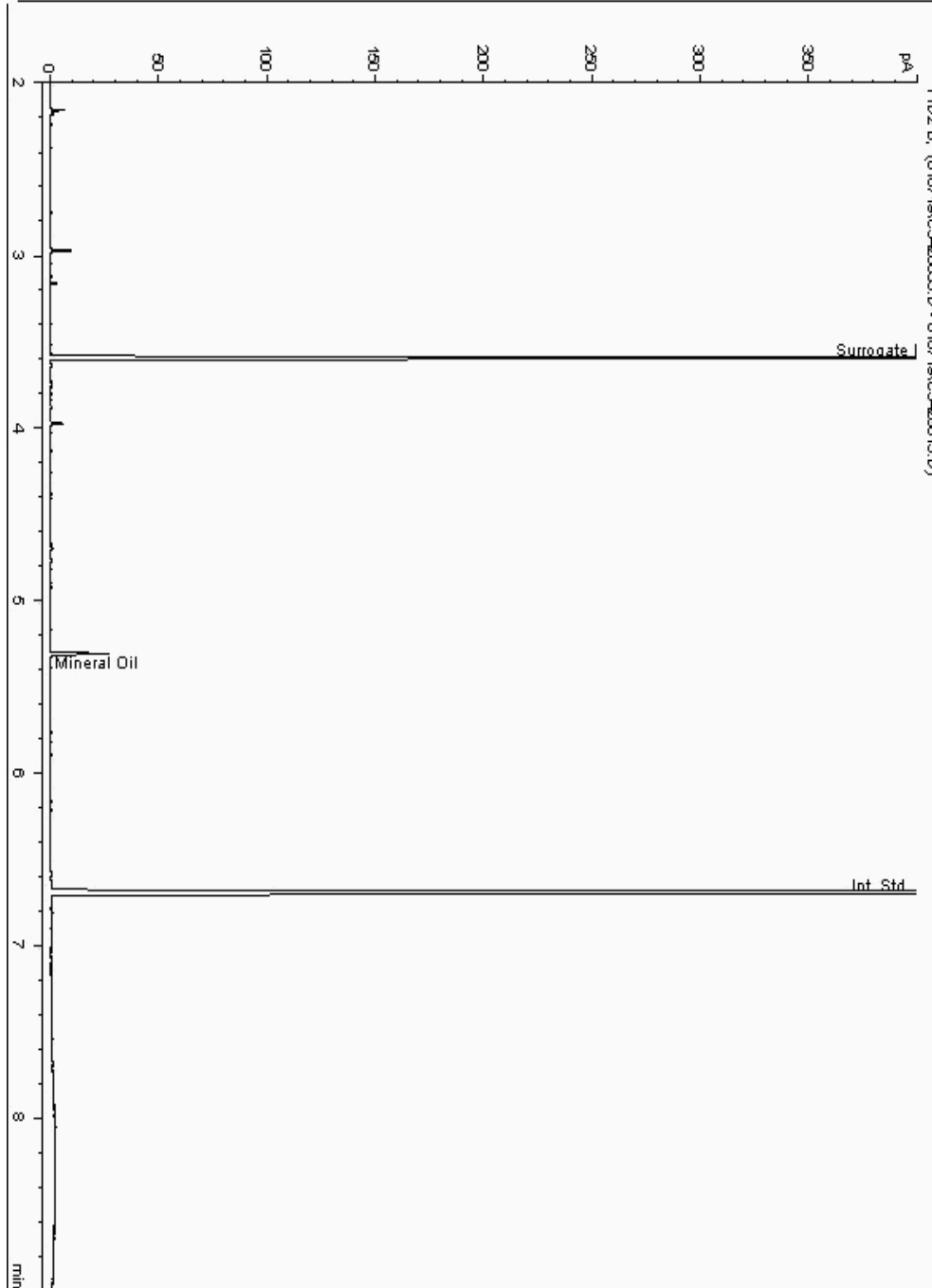
Analysis: Mineral Oil
19033700

Sample No :
Sample ID : BH217

19,033,700Depth : 12.50 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881188-
Date Acquired : 07/01/2019 19:10:19 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

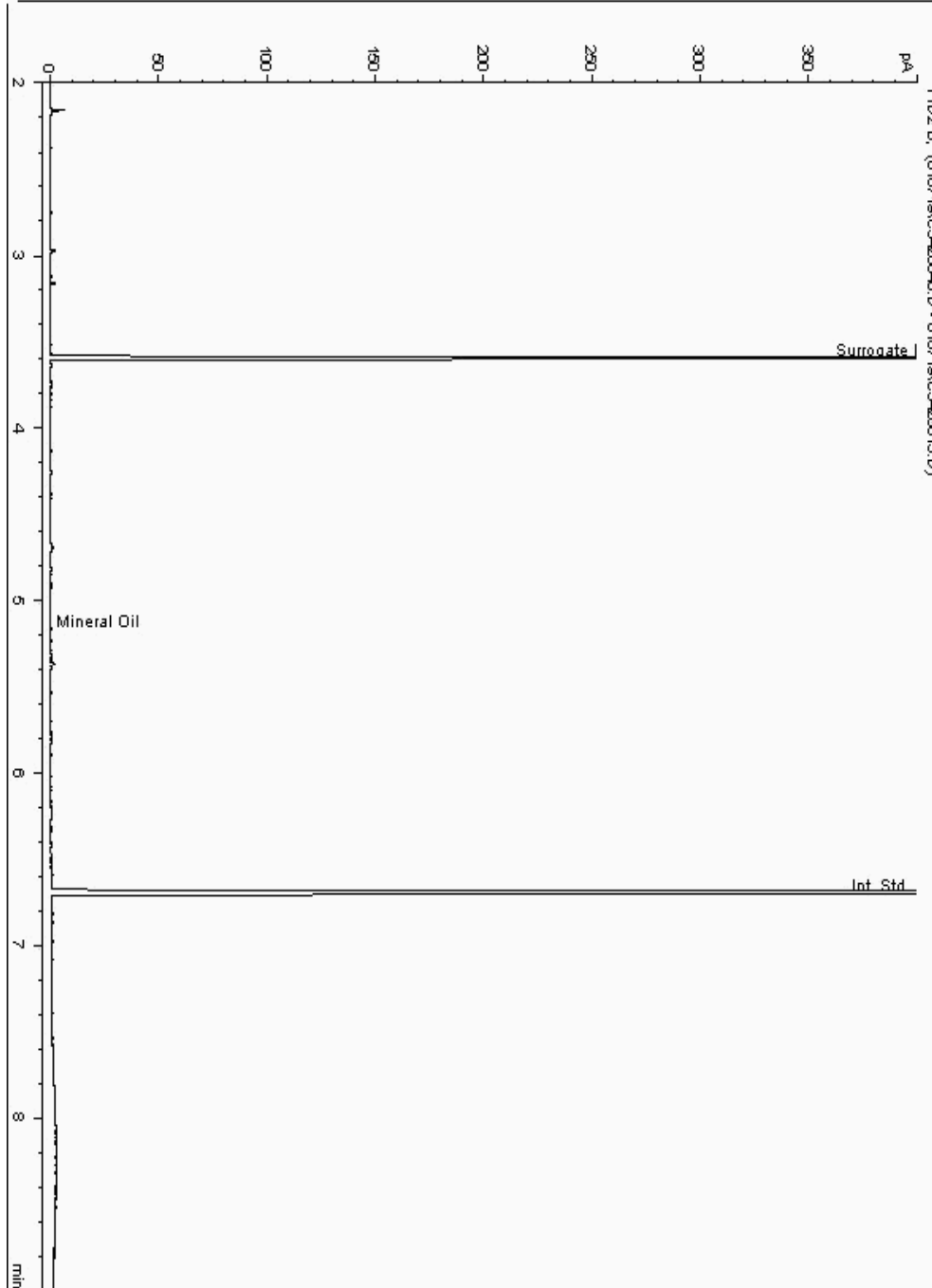
Analysis: Mineral Oil
19033747

Sample No :
Sample ID : BH216

19,033,747Depth :9.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881539-
Date Acquired : 07/01/2019 21:26:17 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

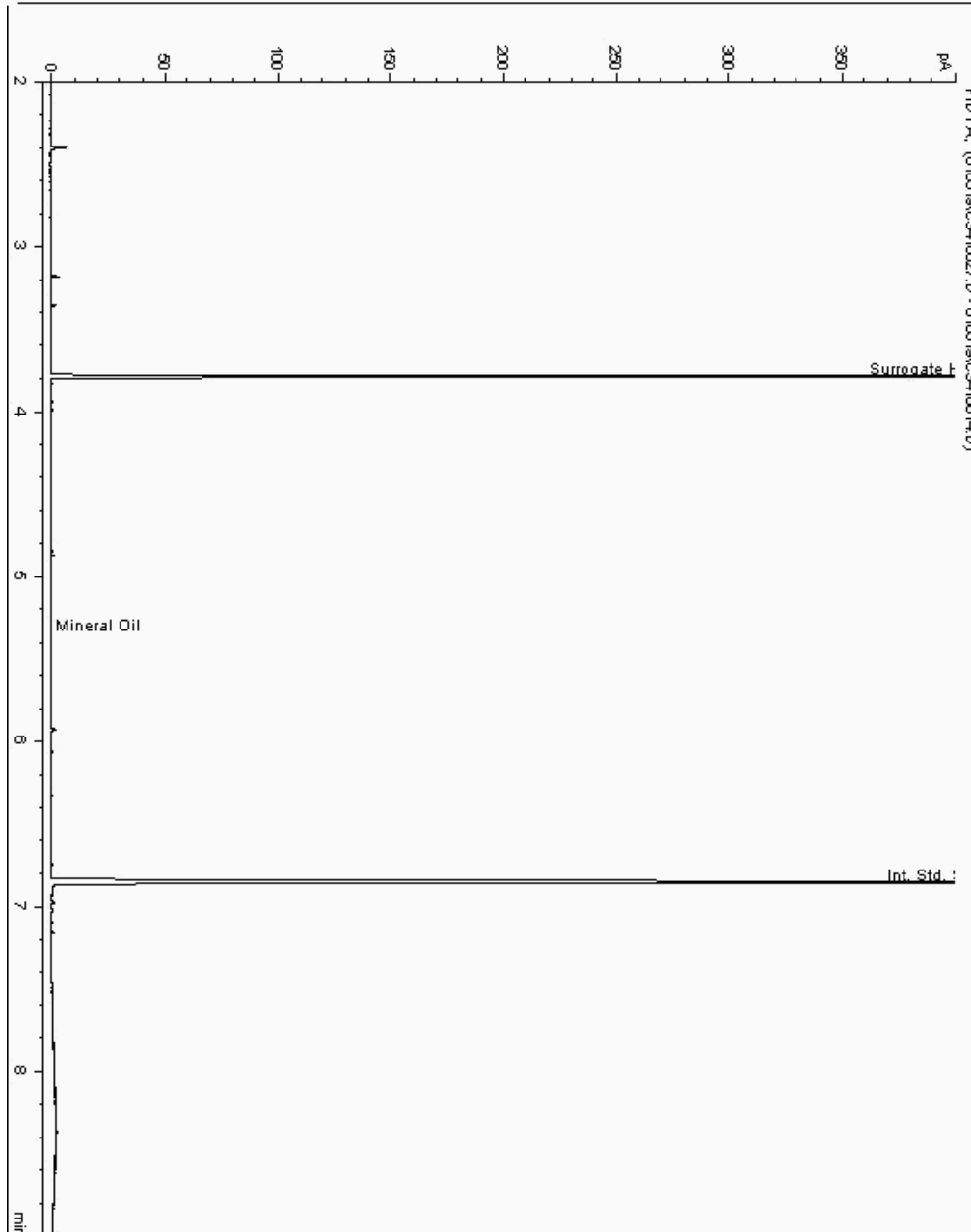
Analysis: Mineral Oil
19033795

Sample No :
Sample ID : BH214

19,033,795Depth :8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881424-
Date Acquired : 05/01/19 18:02:22 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

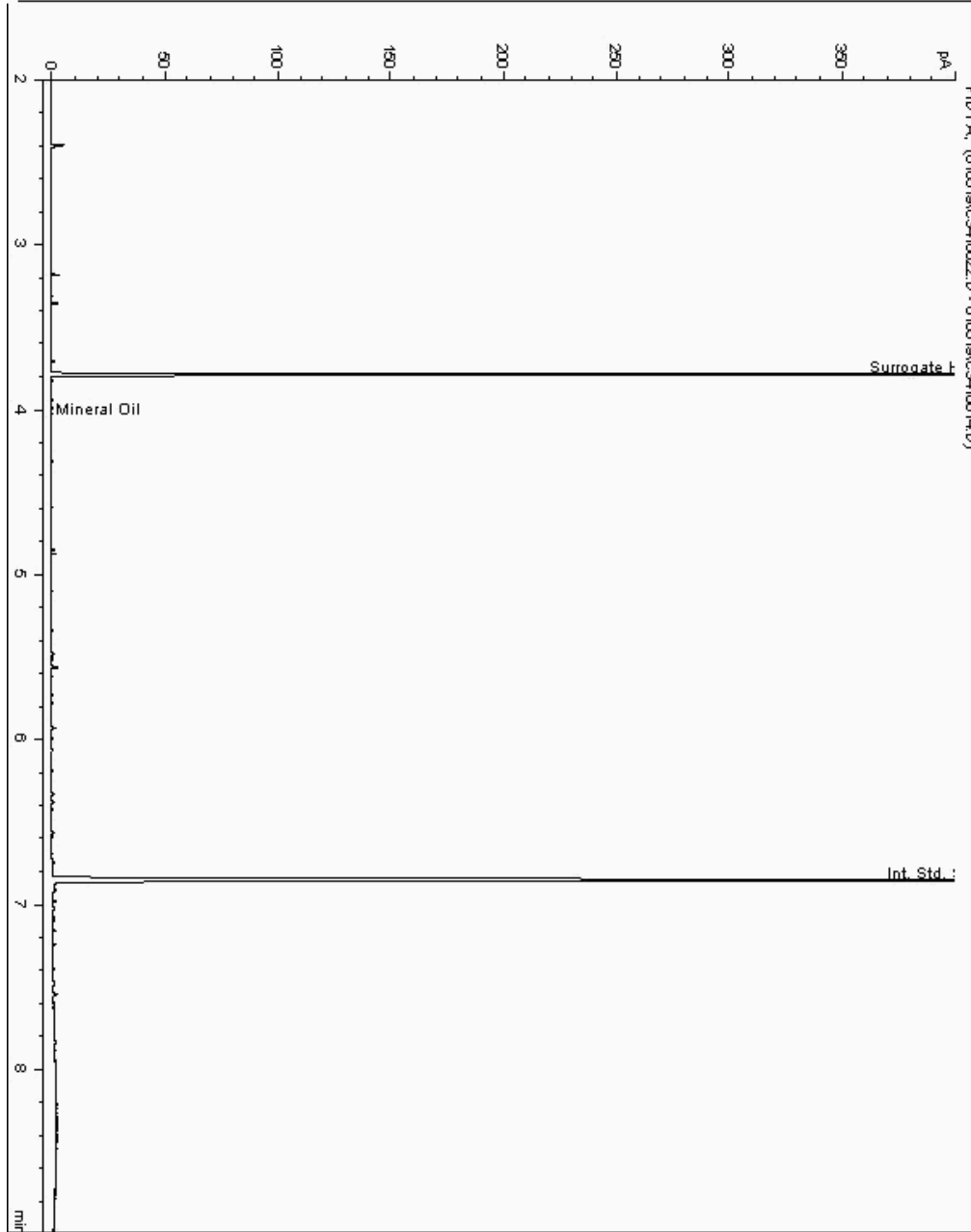
Analysis: Mineral Oil
19033807

Sample No :
Sample ID : BH215

19,033,807Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881263-
Date Acquired : 05/01/19 16:30:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

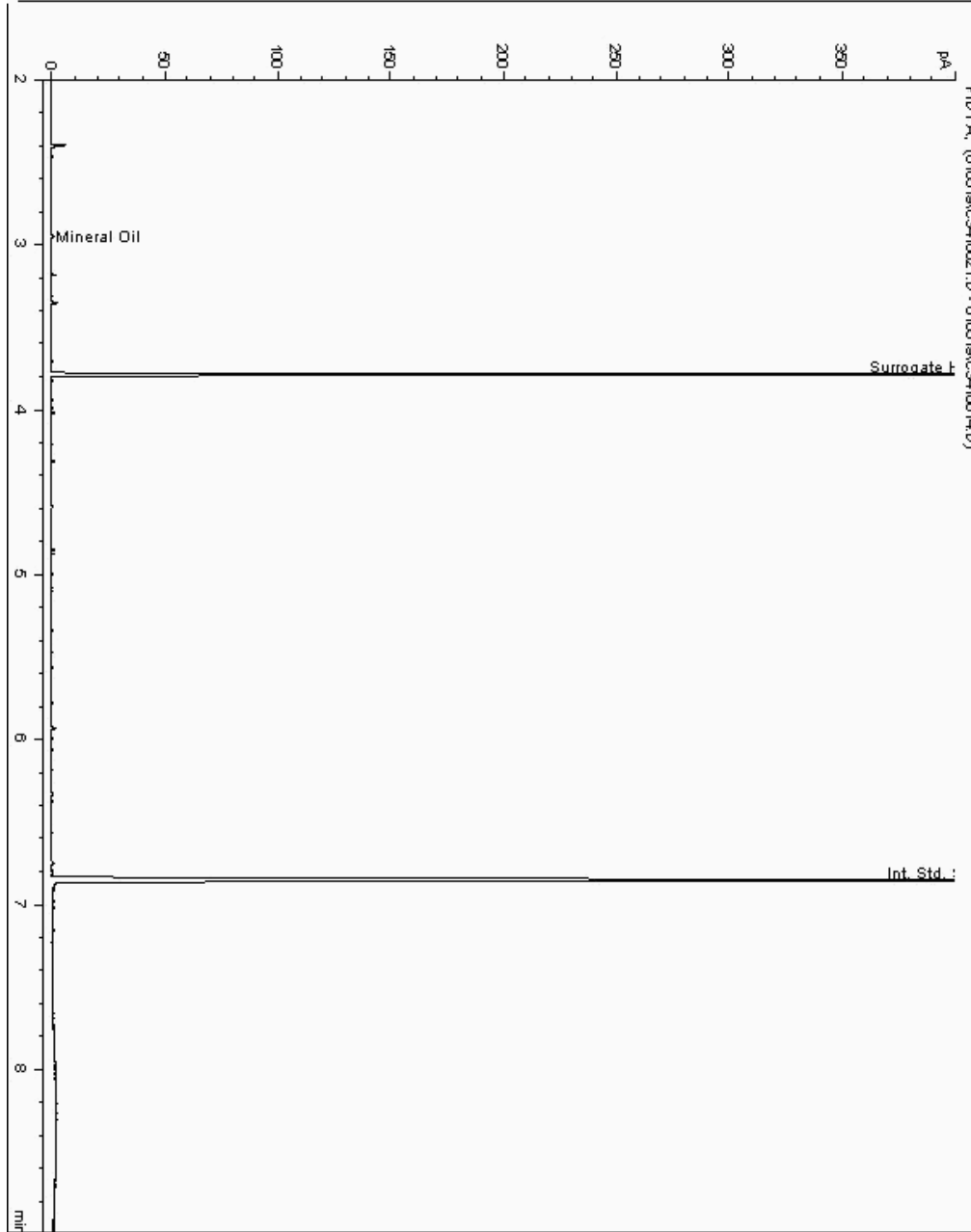
Analysis: Mineral Oil
19033813

Sample No :
Sample ID : BH214

19,033,813 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881356-
Date Acquired : 05/01/19 16:09:54 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

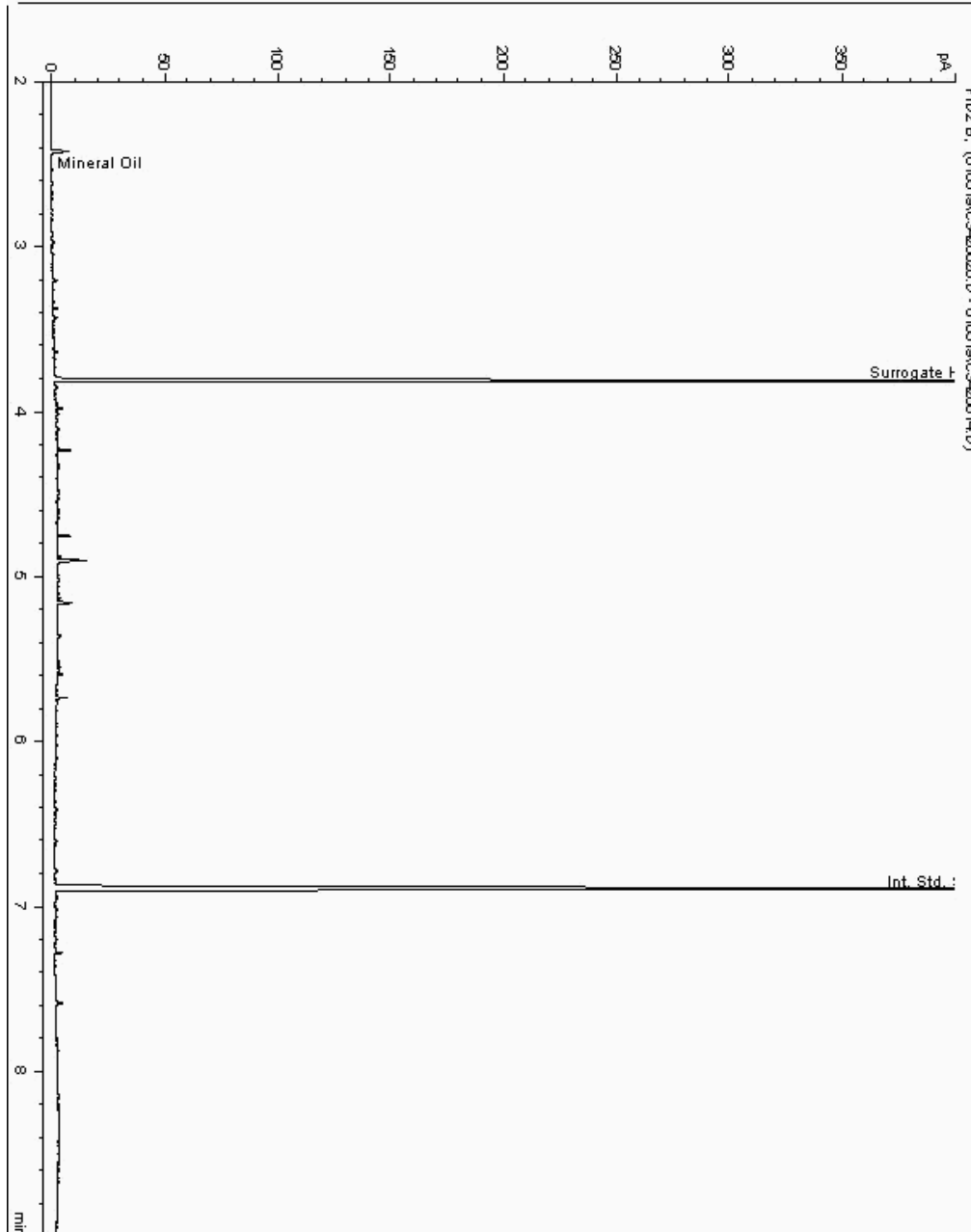
Analysis: Mineral Oil
19034257

Sample No :
Sample ID : BH217

19,034,257Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17882074-
Date Acquired : 05/01/19 17:42:18 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

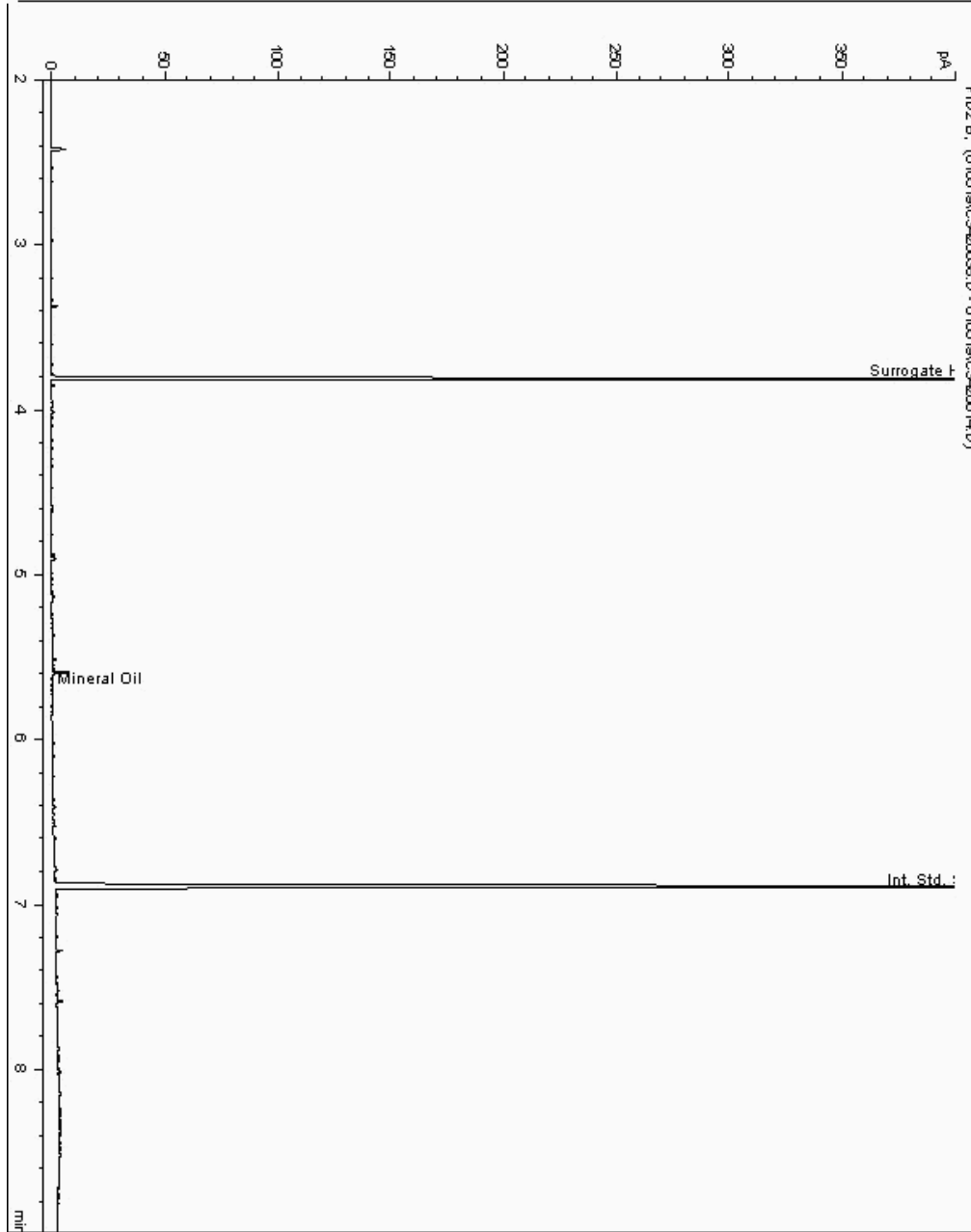
Analysis: Mineral Oil
19034282

Sample No :
Sample ID : BH215

19,034,282Depth :4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881285-
Date Acquired : 05/01/19 21:01:49 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

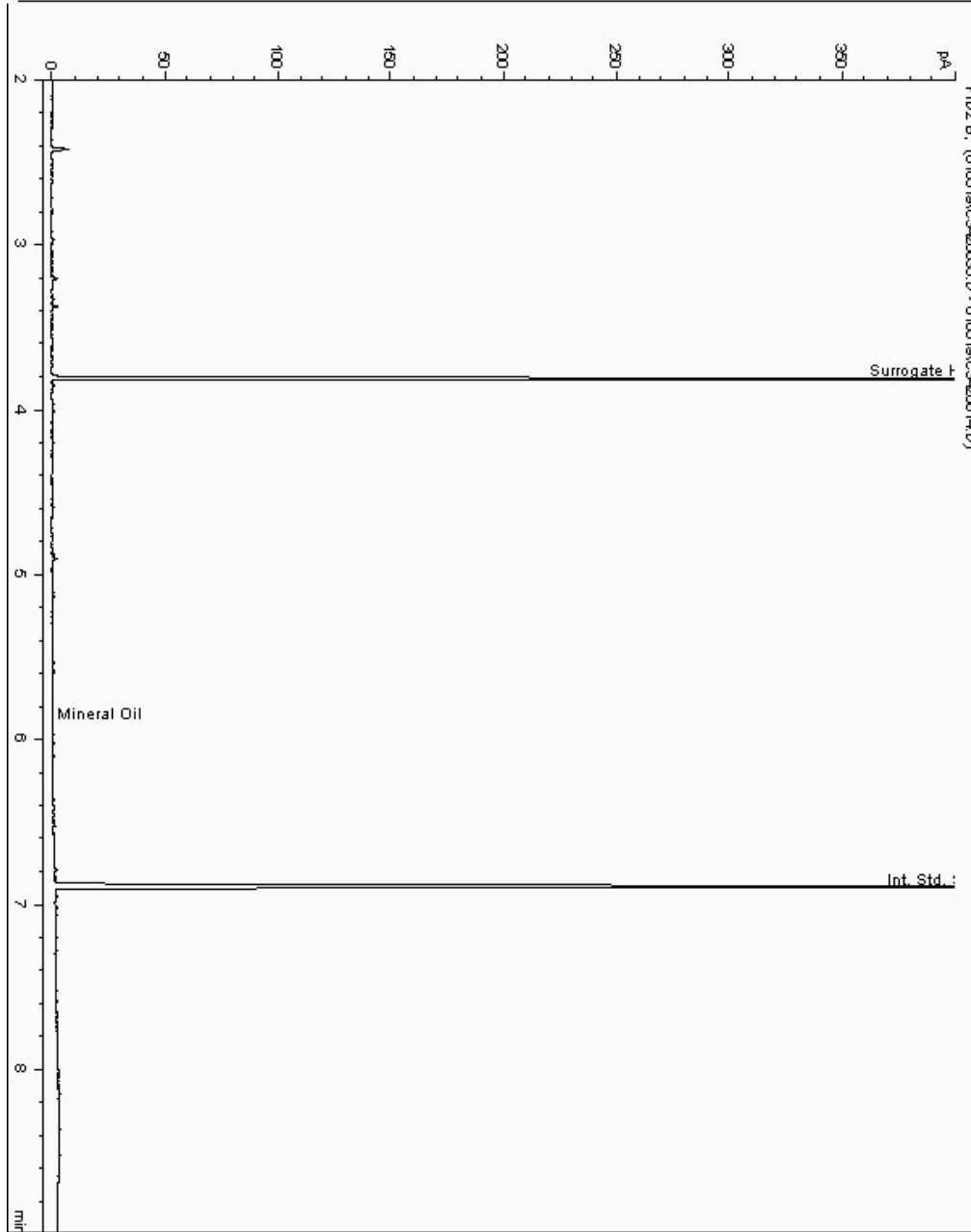
Analysis: Mineral Oil
19034305

Sample No :
Sample ID : BH217

19,034,305Depth :6.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17882003-
Date Acquired : 05/01/19 20:09:52 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

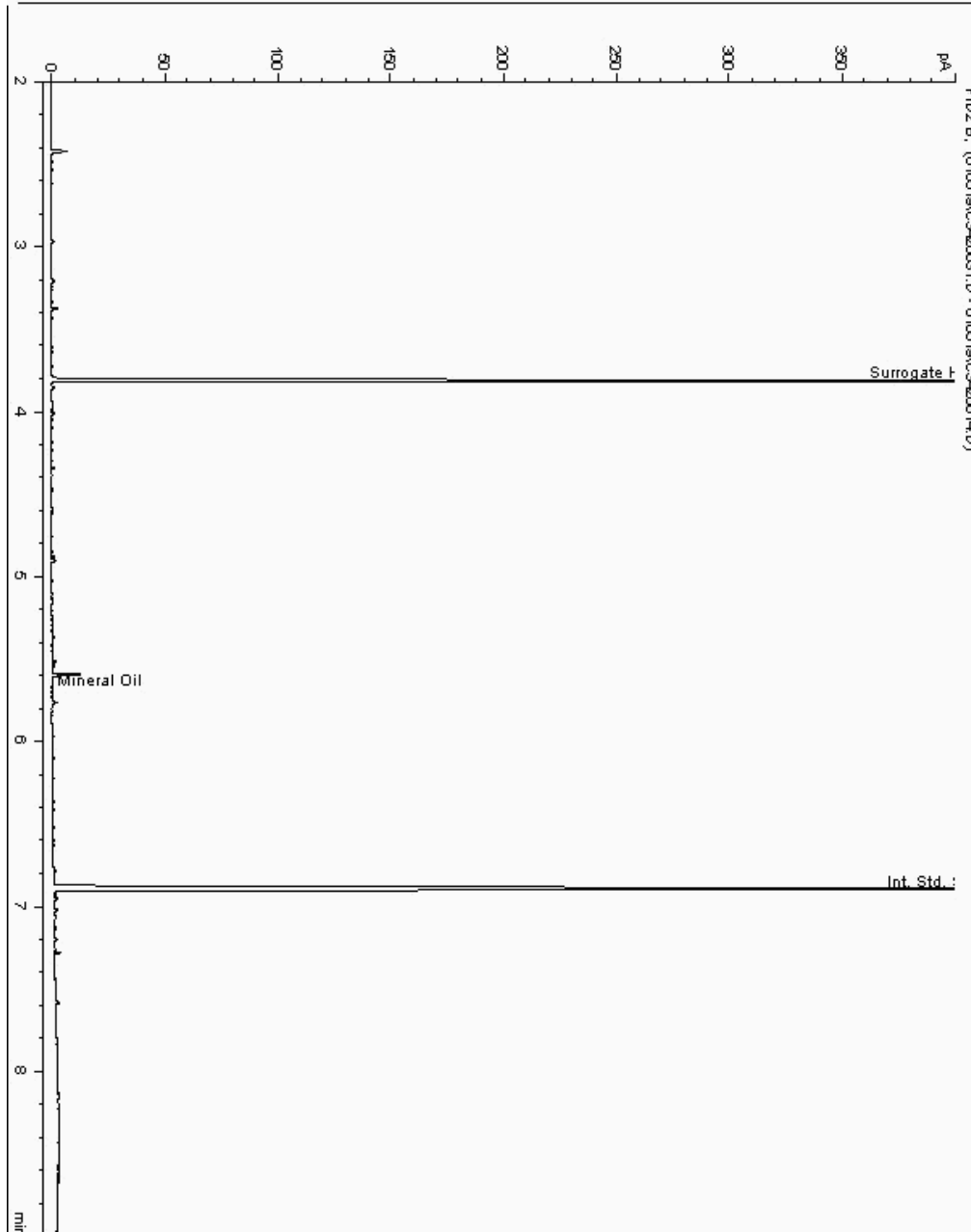
Analysis: Mineral Oil
19034337

Sample No :
Sample ID : BH215

19,034,337Depth :3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17881214-
Date Acquired : 05/01/19 19:05:57 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

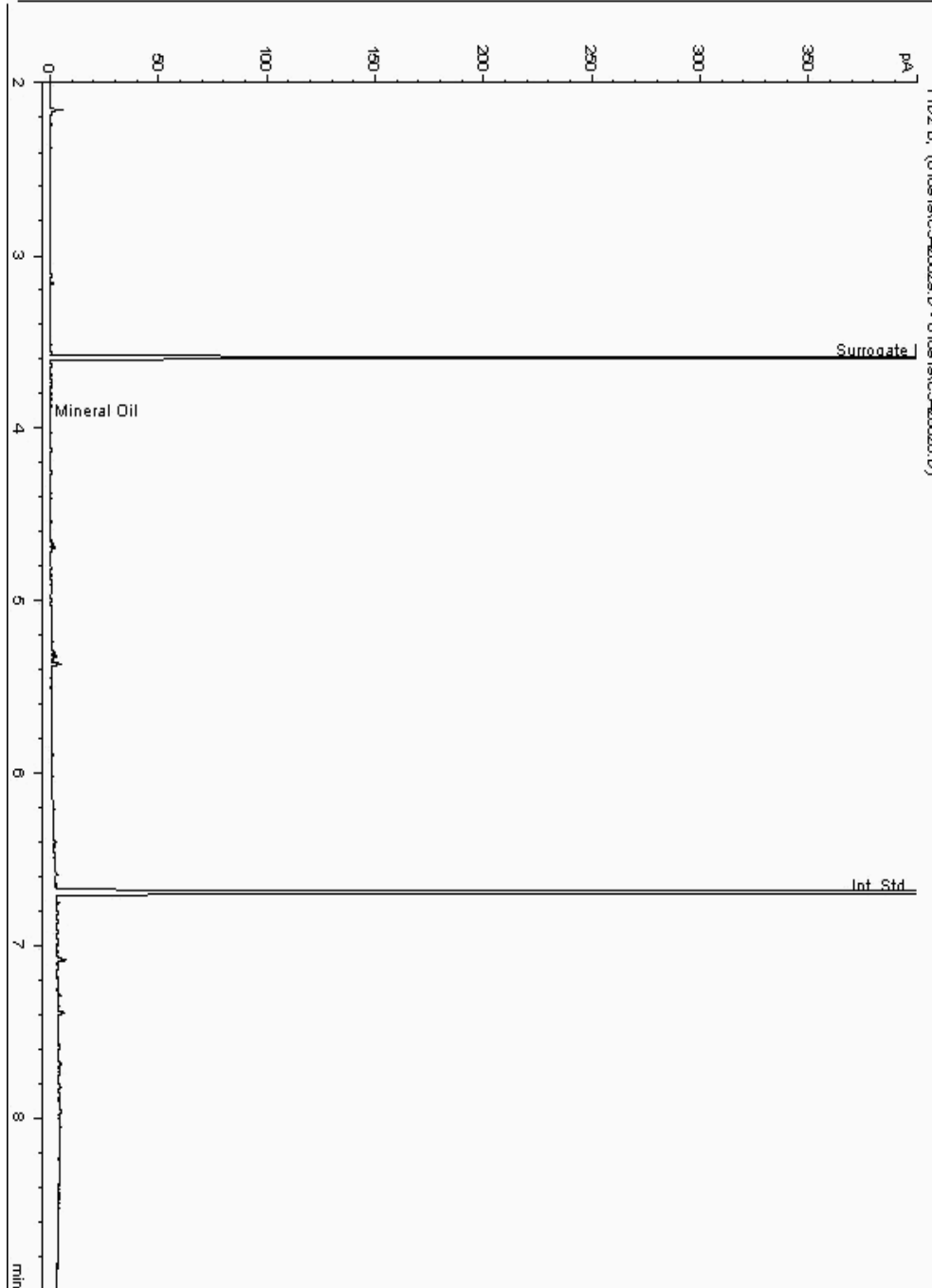
Analysis: Mineral Oil
19067181

Sample No :
Sample ID : BH214

19,067,181 Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17911572-
Date Acquired : 09/01/2019 18:38:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

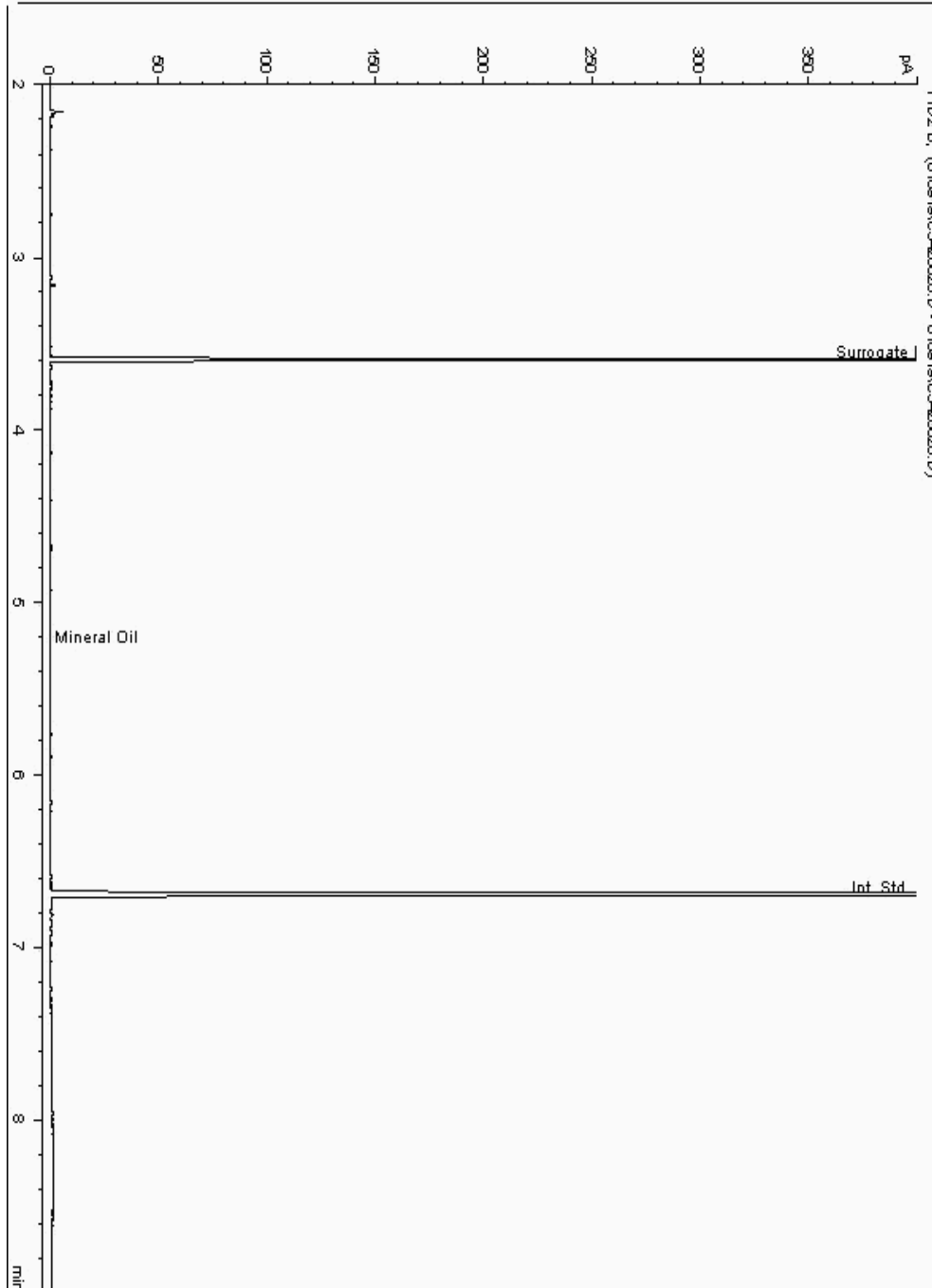
Analysis: Mineral Oil
19067202

Sample No :
Sample ID : BH215

19,067,202Depth : 13.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17911538-
Date Acquired : 09/01/2019 17:45:20 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

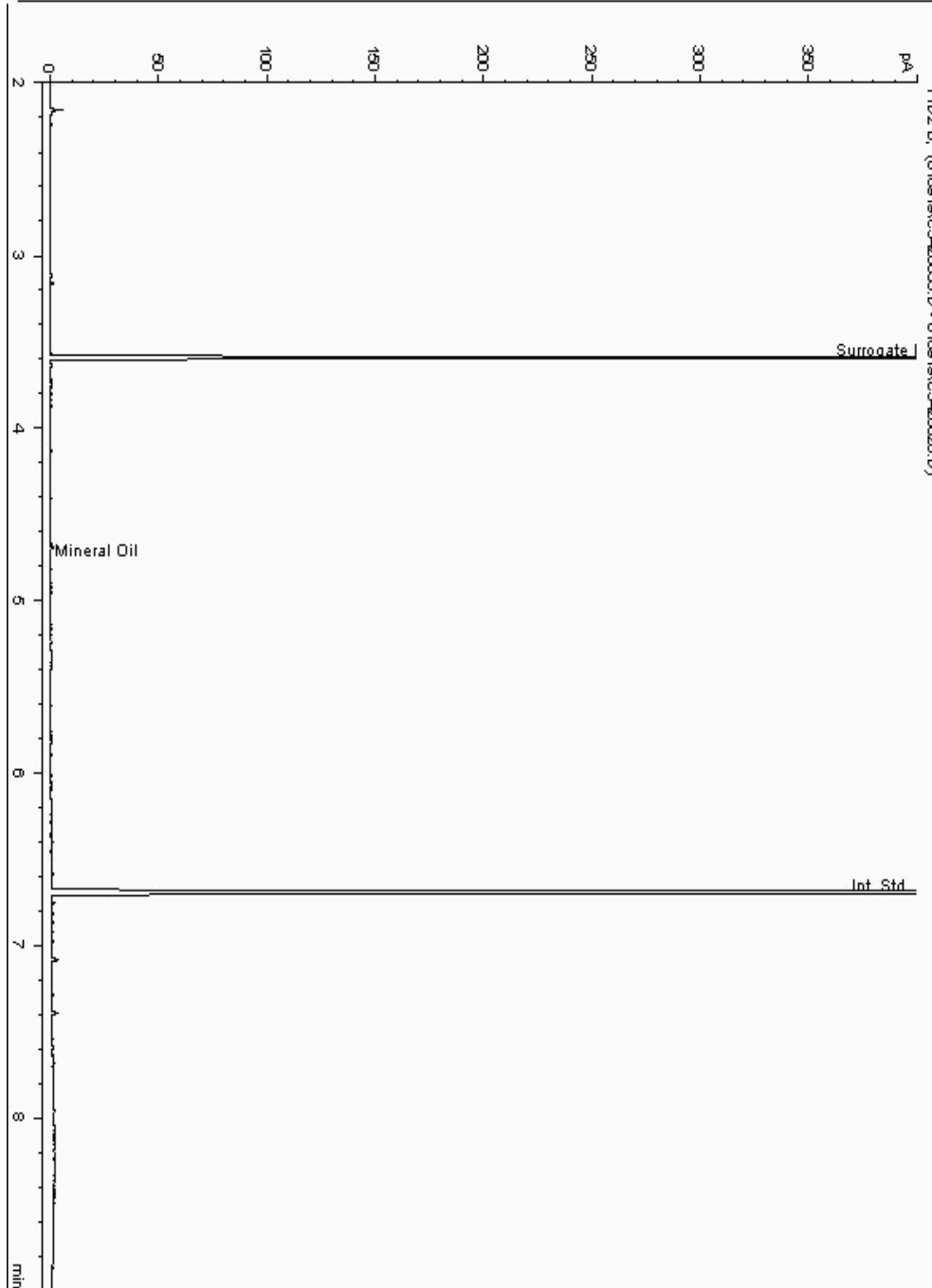
Analysis: Mineral Oil
19069264

Sample No :
Sample ID : BH215

19,069,264Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17914673-
Date Acquired : 09/01/2019 20:15:15 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

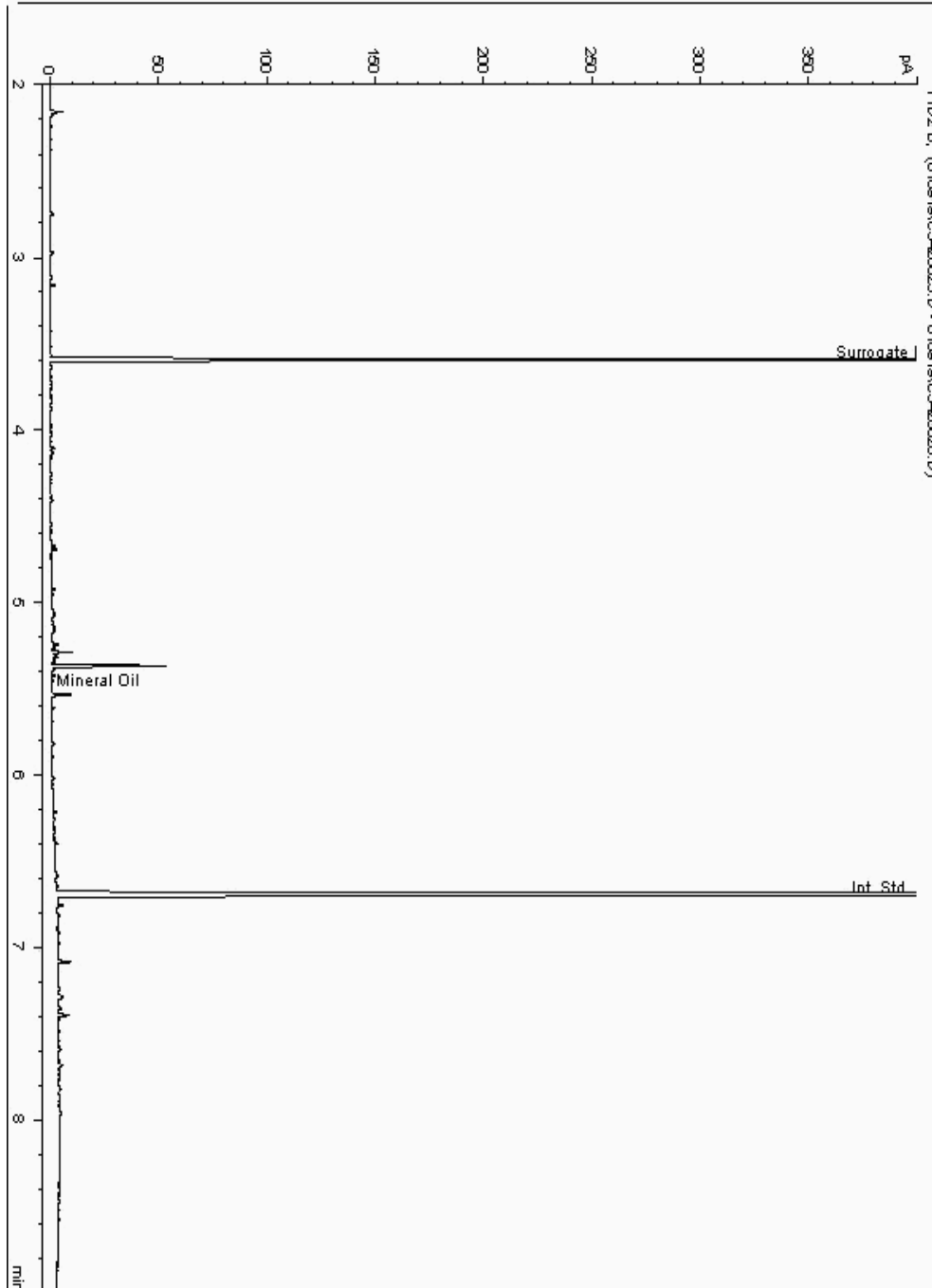
Analysis: Mineral Oil
19070136

Sample No :
Sample ID : BH216

19,070,136Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17914429-
Date Acquired : 09/01/2019 16:52:14 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

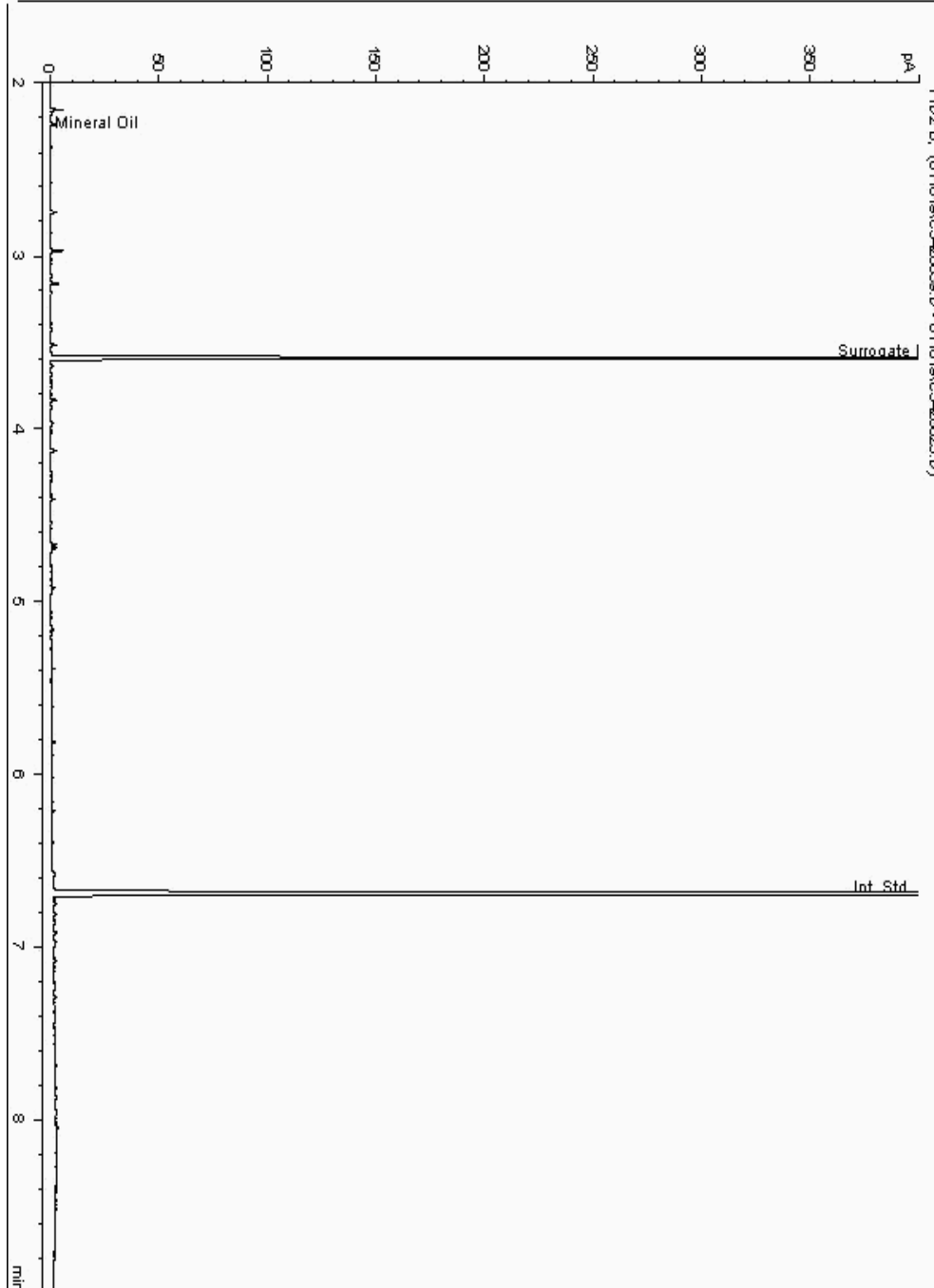
Analysis: Mineral Oil
19073975

Sample No :
Sample ID : BH214

19,073,975Depth :0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17918564-
Date Acquired : 11/01/2019 01:12:49 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

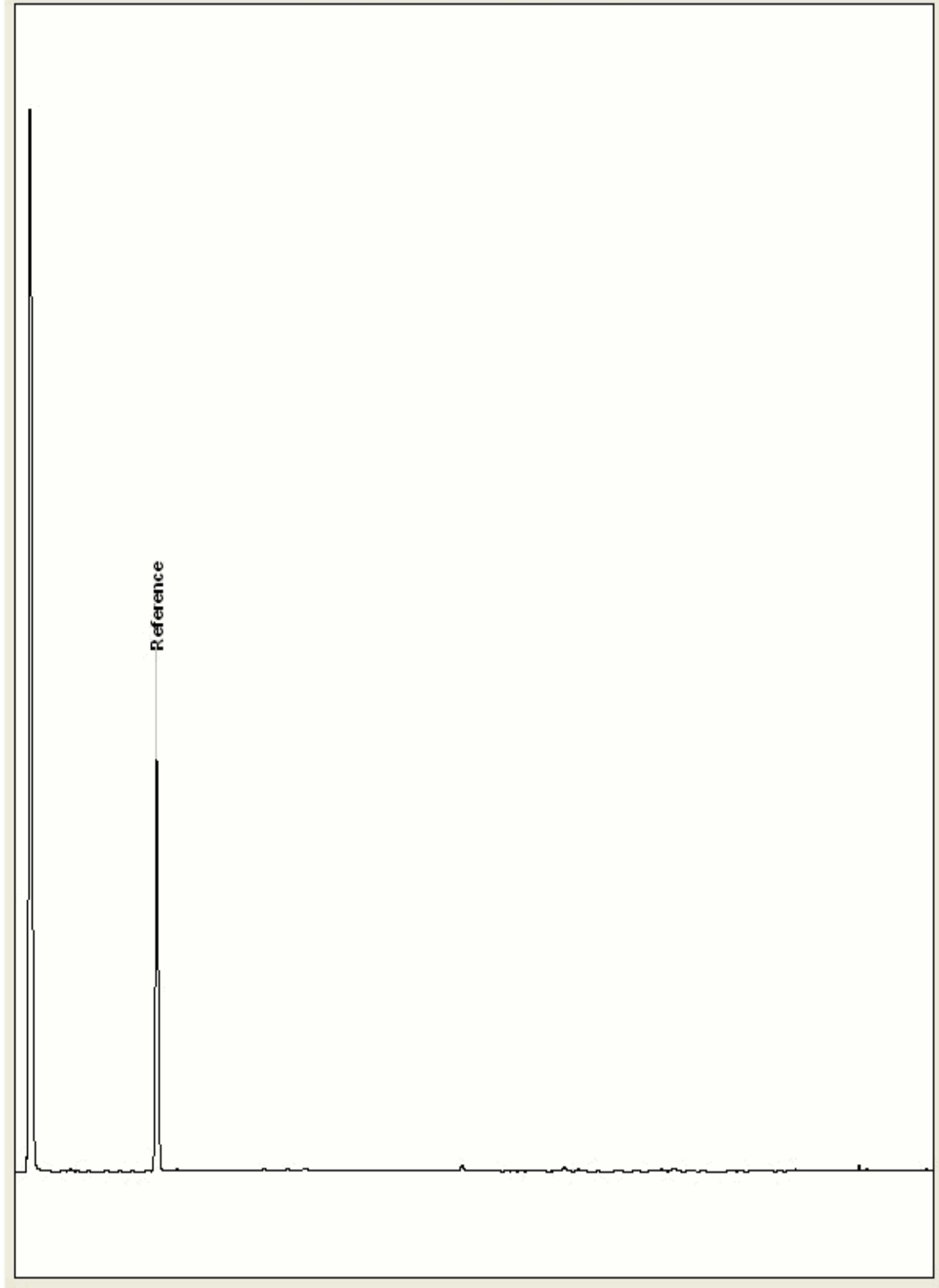
Chromatogram

Analysis: GRO by GC-FID (S)
19068383

Sample No :
Sample ID : BH216

19,068,383Depth :6.00 - 8.00

19068383_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

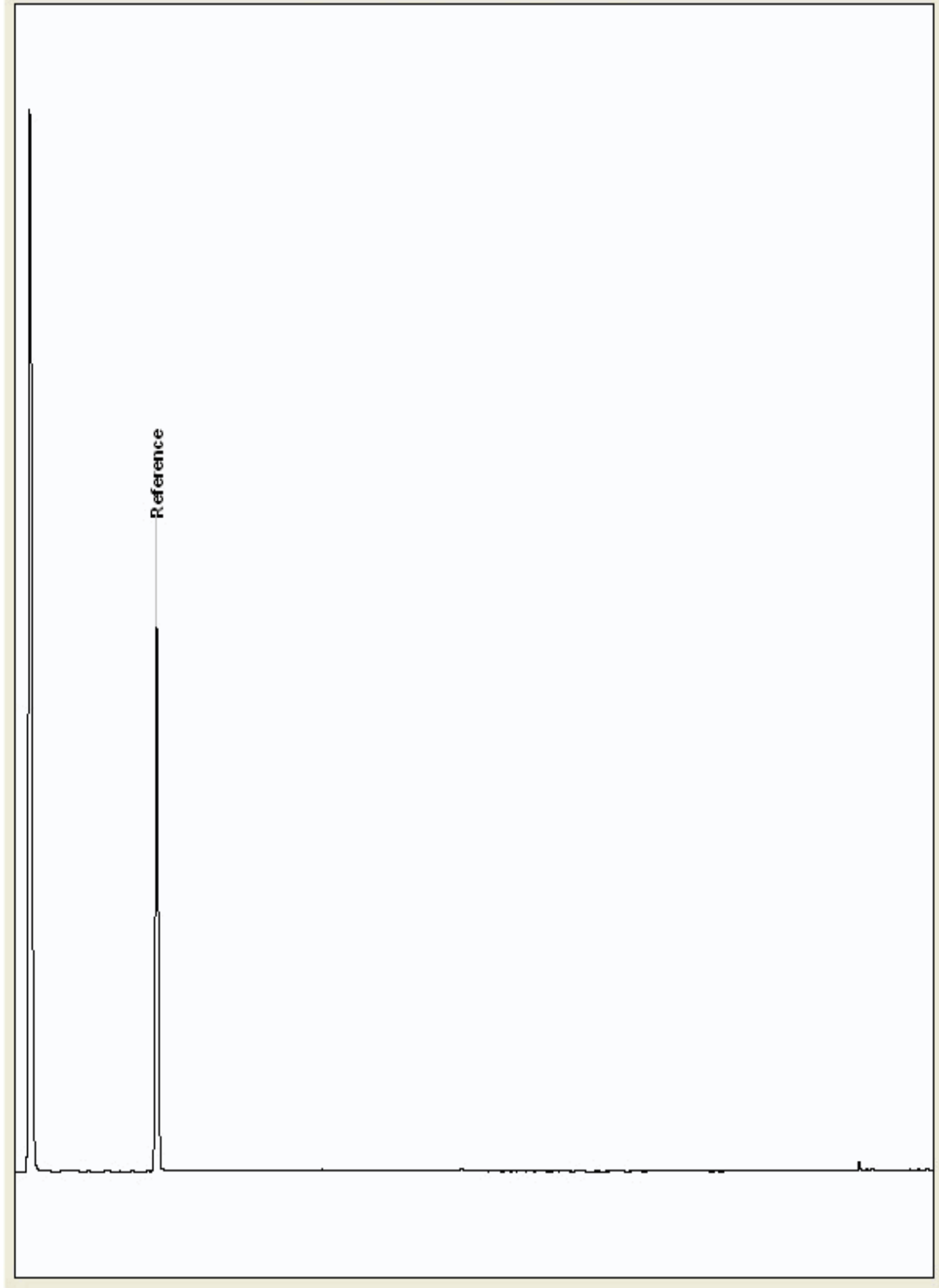
Chromatogram

Analysis: GRO by GC-FID (S)
19068413

Sample No :
Sample ID : BH216

19,068,413 **Depth :** 9.00 - 11.00

19068413_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

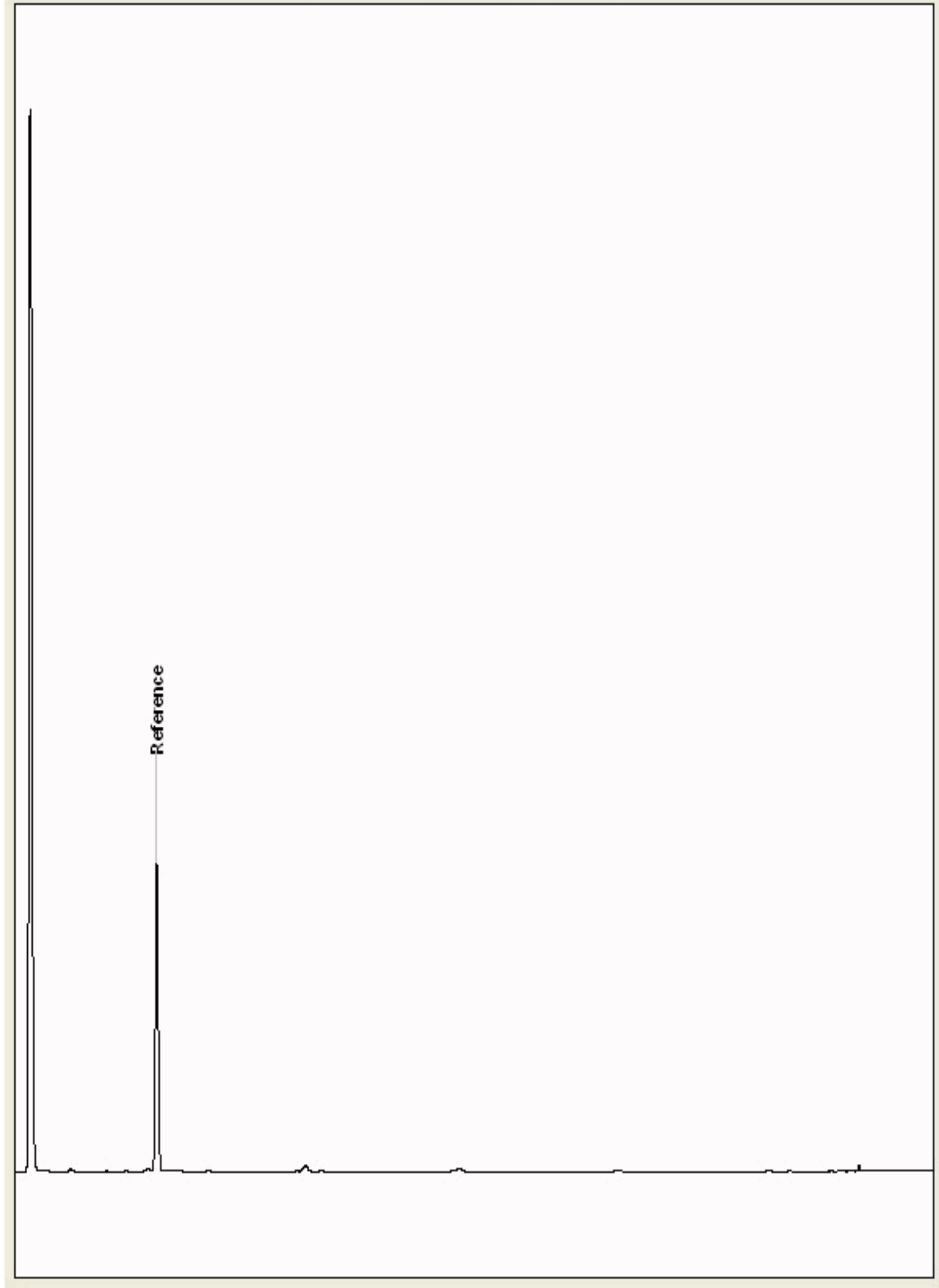
Chromatogram

Analysis: GRO by GC-FID (S)
19068415

Sample No :
Sample ID : BH214

19,068,415 **Depth :** 9.00 - 11.00

19068415_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

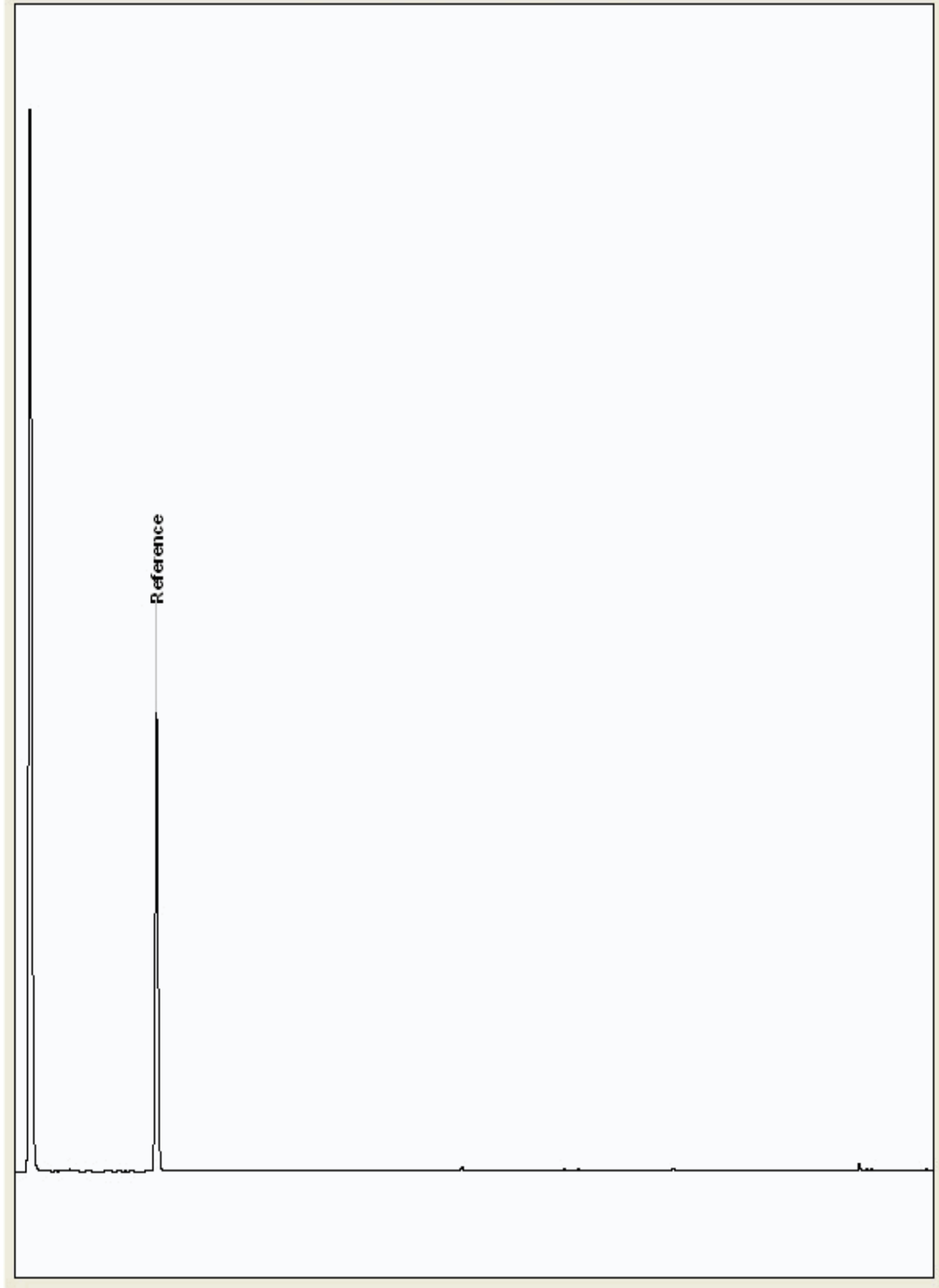
Chromatogram

Analysis: GRO by GC-FID (S)
19068432

Sample No :
Sample ID : BH214

19,068,432Depth :2.00 - 3.00

19068432_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

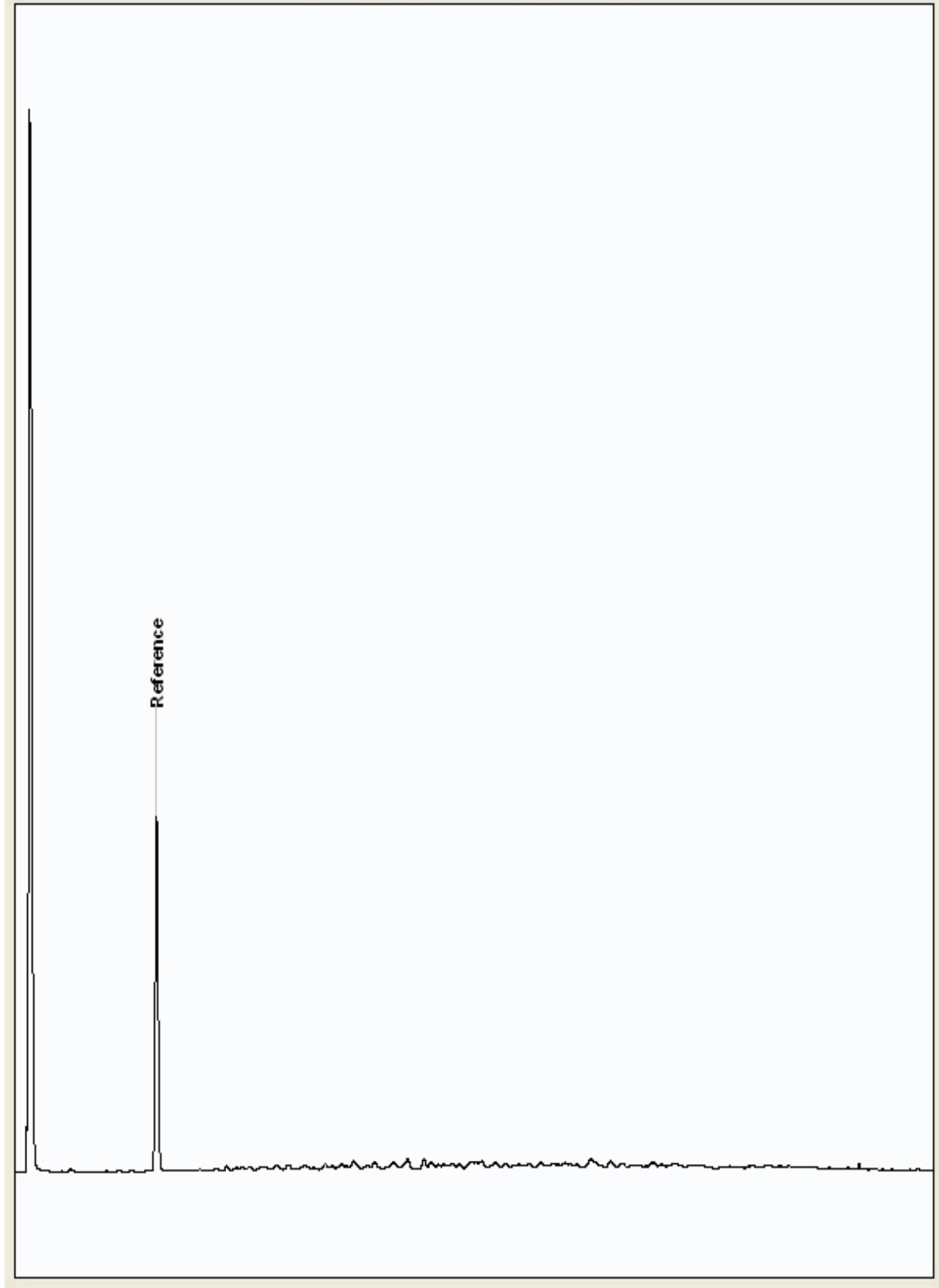
Chromatogram

Analysis: GRO by GC-FID (S)
19068487

Sample No :
Sample ID : BH217

19,068,487Depth :0.50 - 1.00

19068487_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

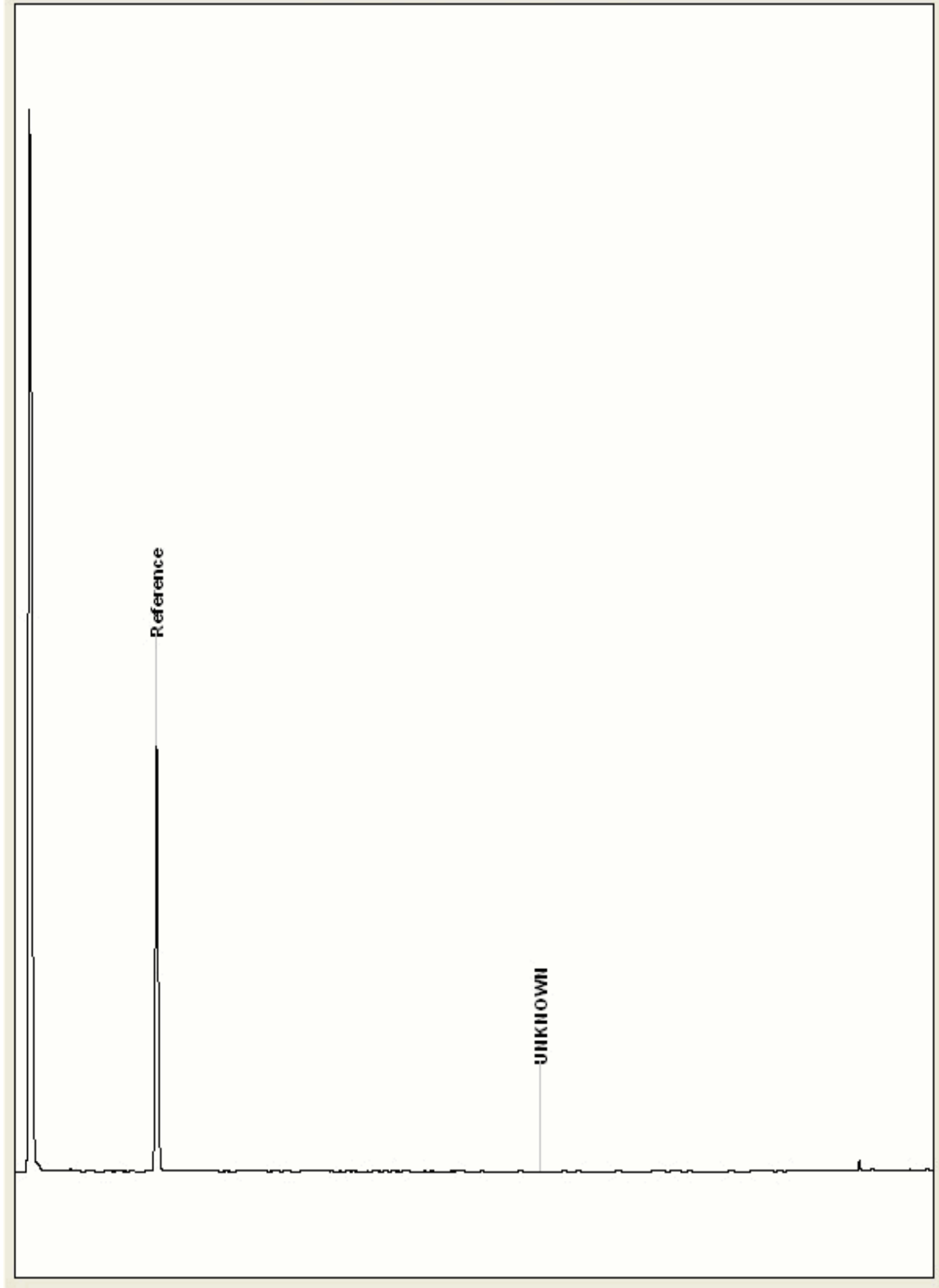
Chromatogram

Analysis: GRO by GC-FID (S)
19068497

Sample No :
Sample ID : BH214

19,068,497Depth :4.00 - 5.00

19068497_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

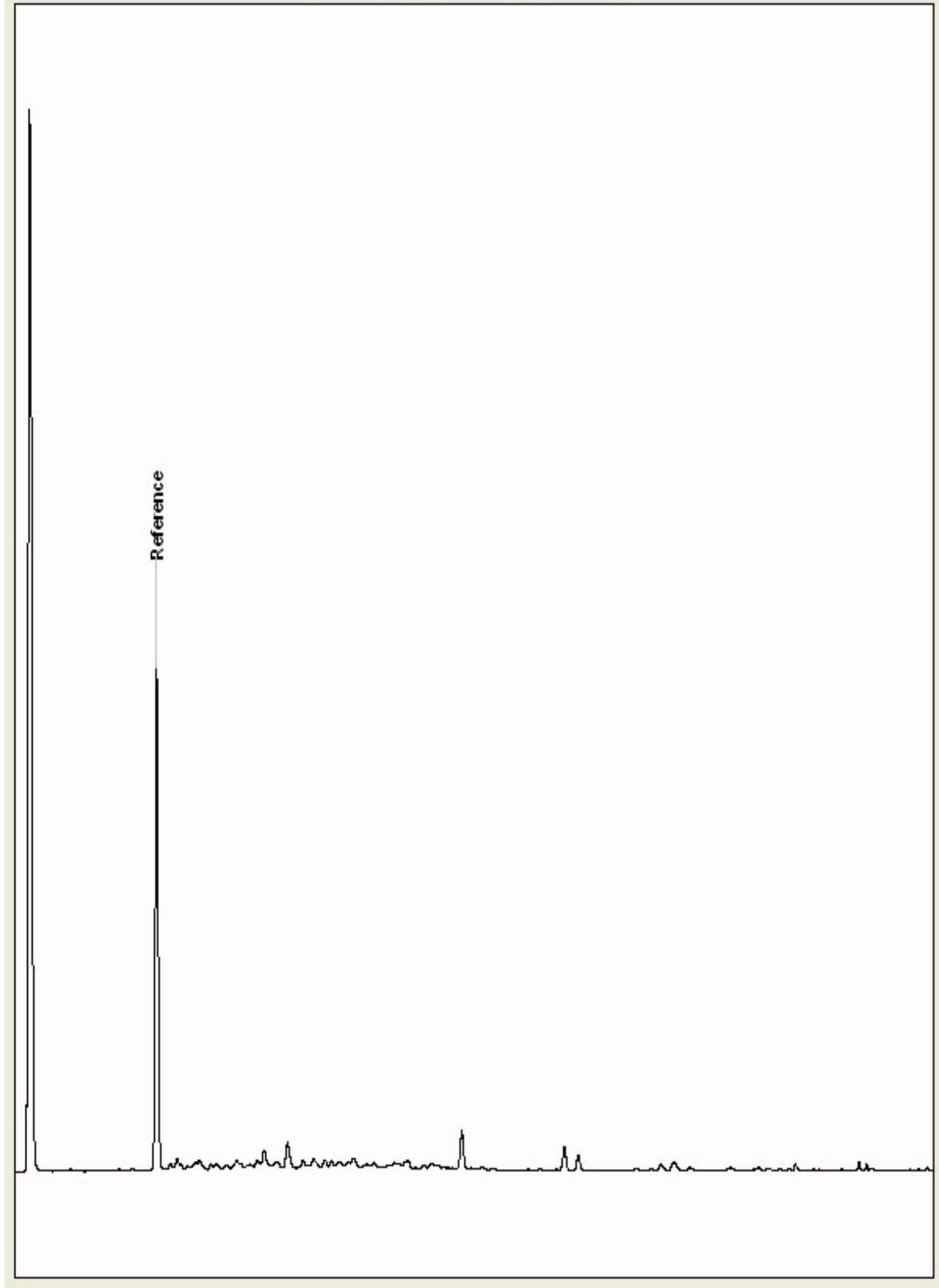
Chromatogram

Analysis: GRO by GC-FID (S)
19068563

Sample No :
Sample ID : BH216

19,068,563Depth :4.00 - 5.00

19068563_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

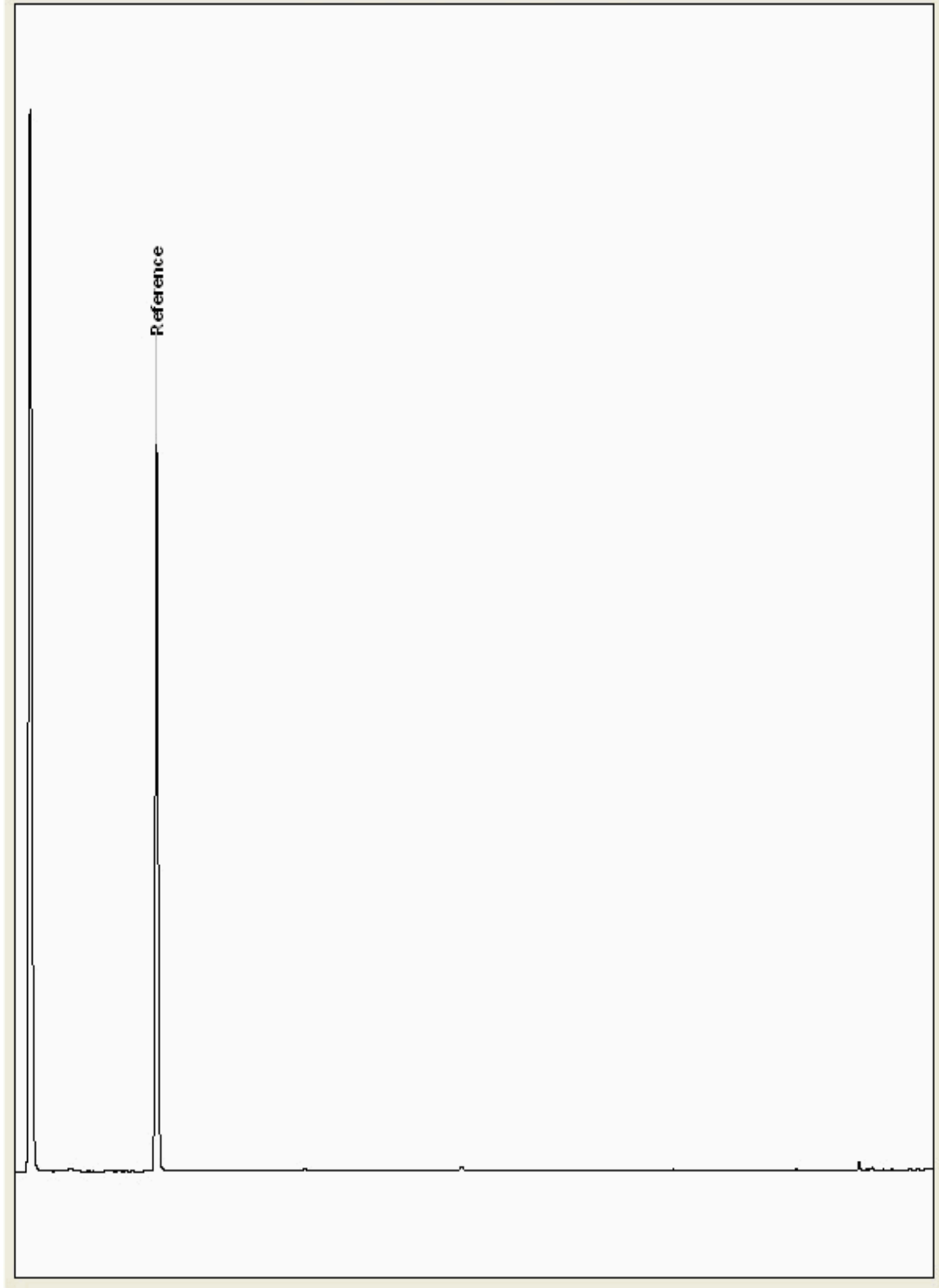
Chromatogram

Analysis: GRO by GC-FID (S)
19068569

Sample No :
Sample ID : BH216

19,068,569Depth : 0.00 - 0.50

19068569_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

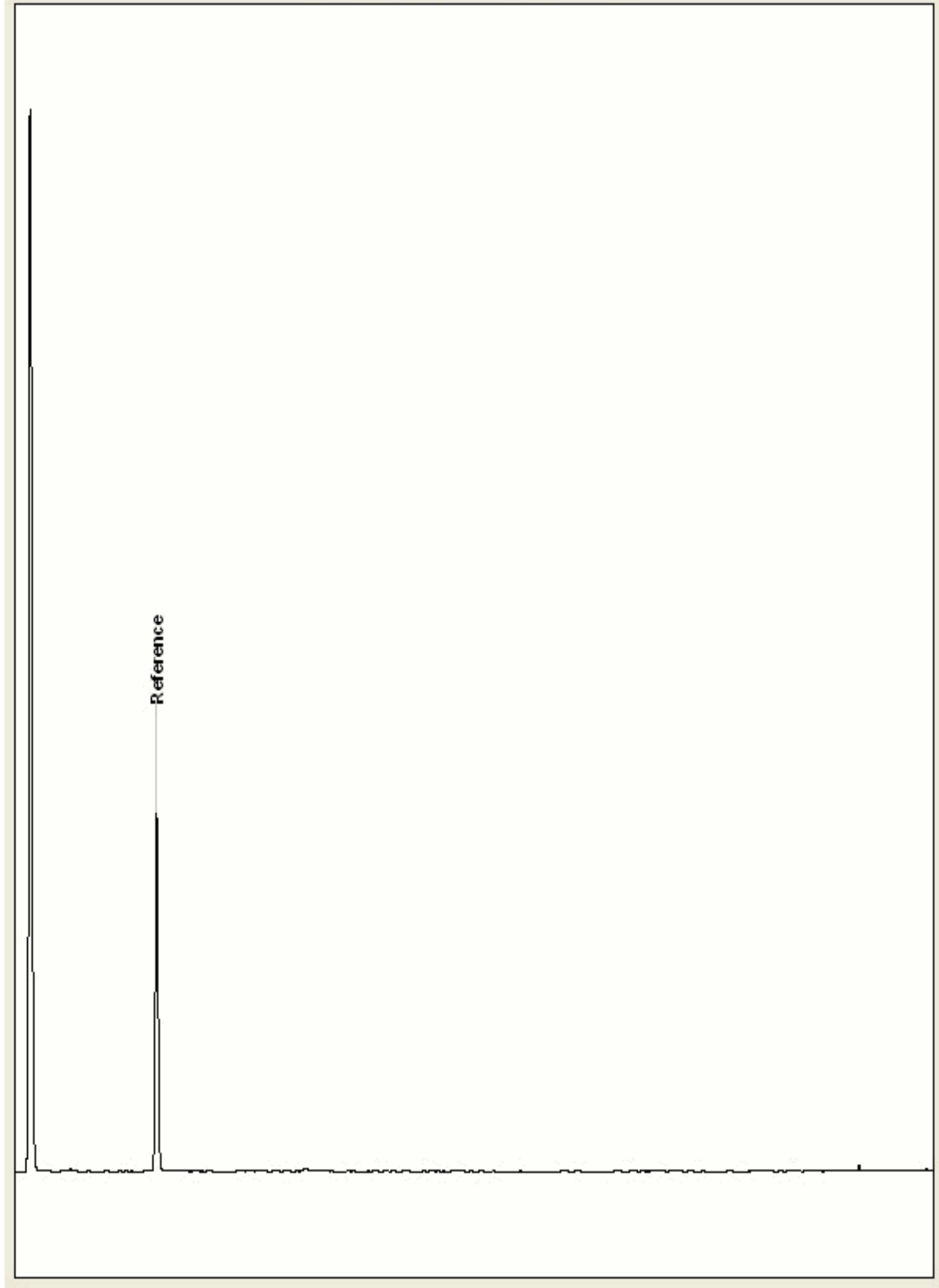
Chromatogram

Analysis: GRO by GC-FID (S)
19068667

Sample No :
Sample ID : BH214

19,068,667Depth :5.00 - 6.00

19068667_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

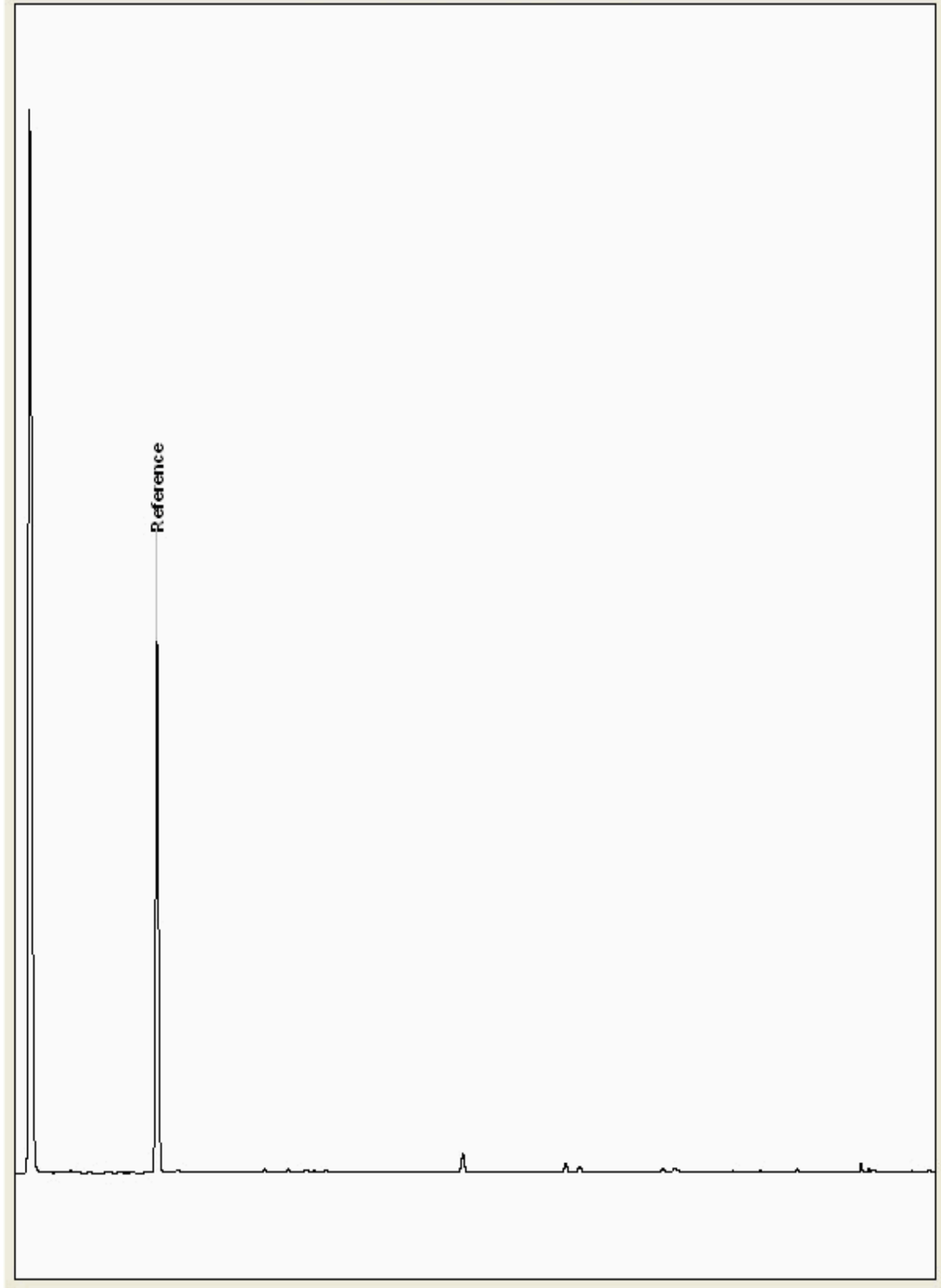
Chromatogram

Analysis: GRO by GC-FID (S)
19068716

Sample No :
Sample ID : BH215

19,068,716 **Depth :** 4.00 - 5.00

19068716_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

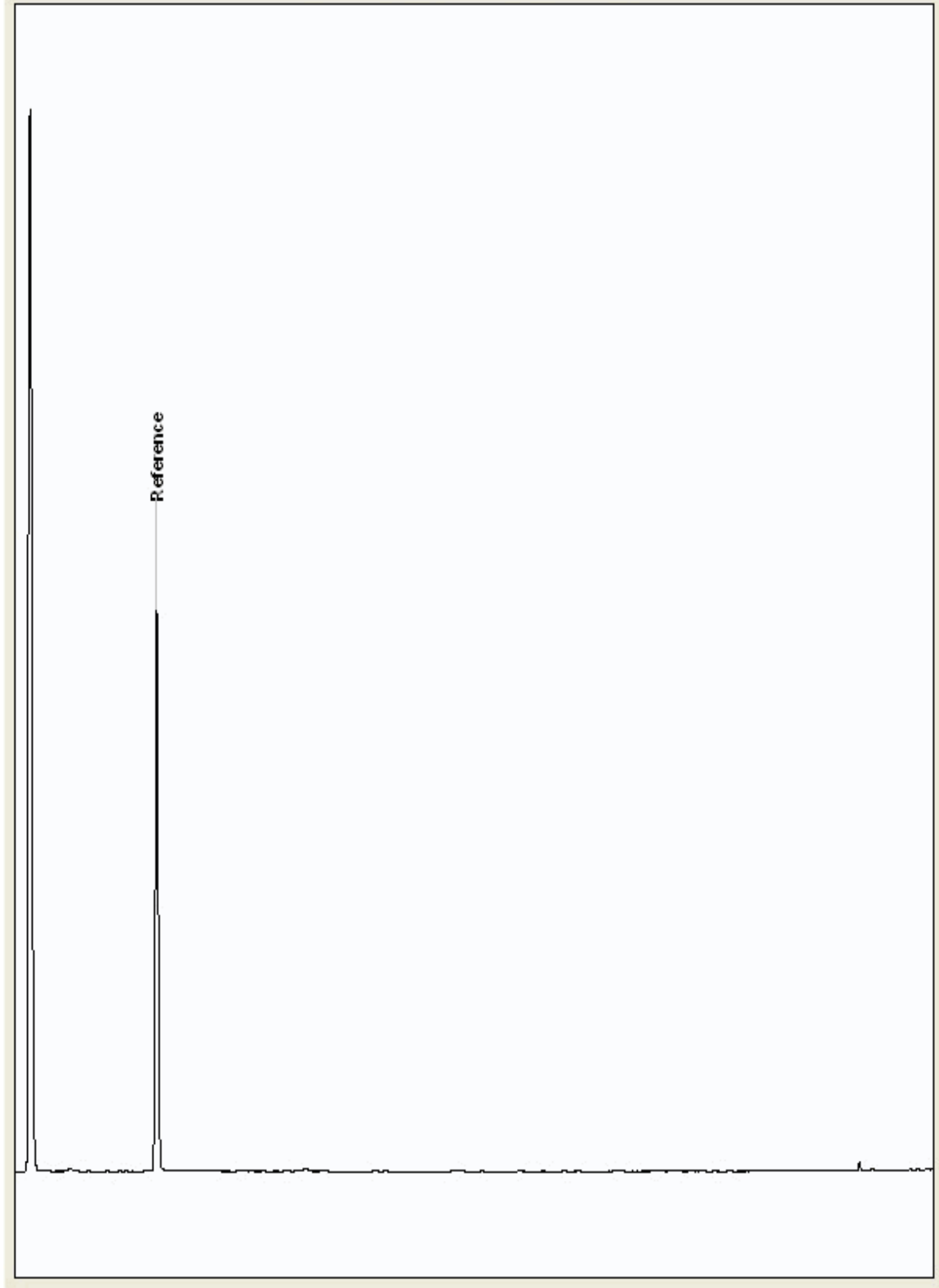
Chromatogram

Analysis: GRO by GC-FID (S)
19068817

Sample No :
Sample ID : BH215

19,068,817 **Depth :** 0.50 - 1.00

19068817_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

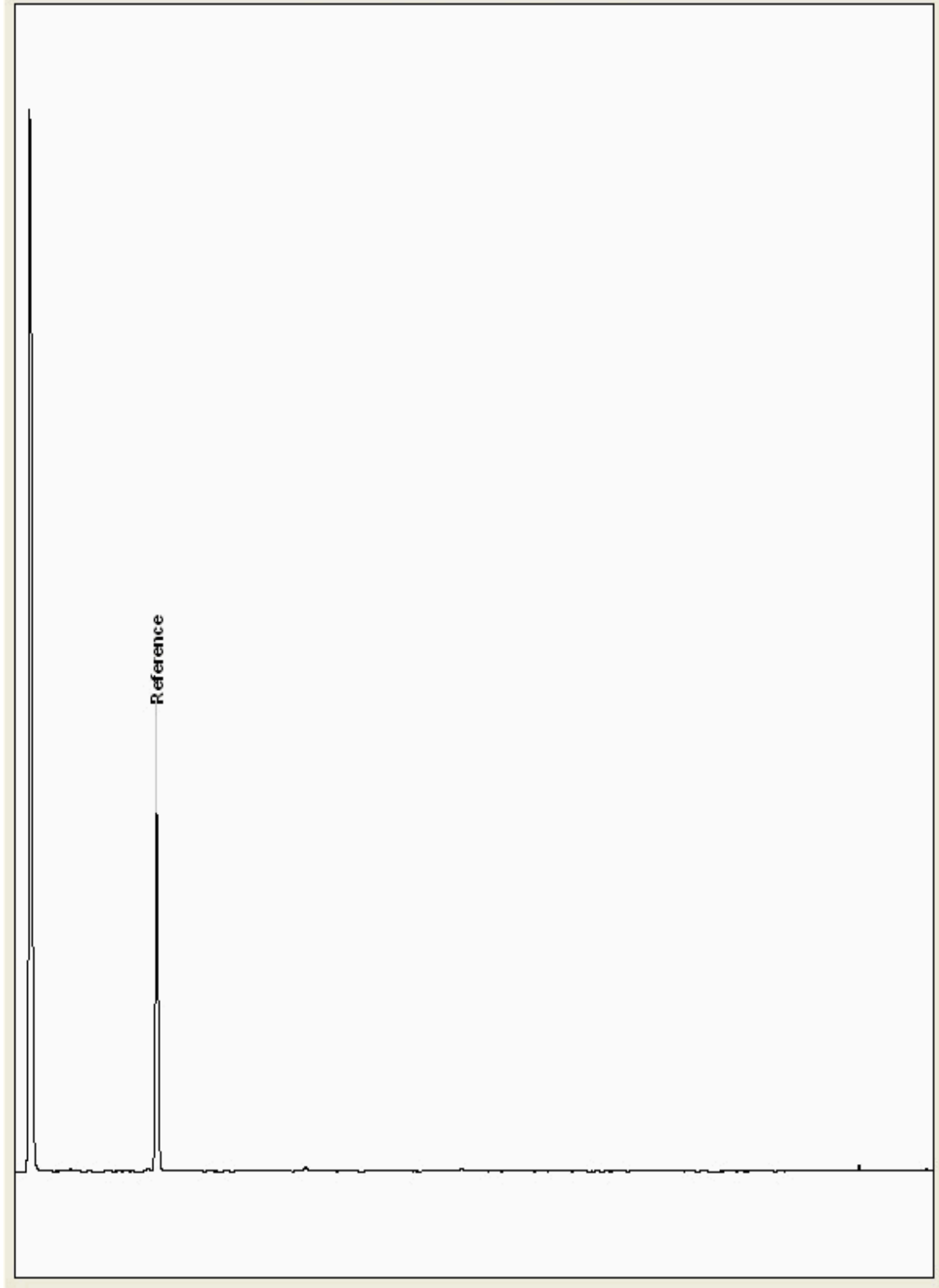
Chromatogram

Analysis: GRO by GC-FID (S)
19069151

Sample No :
Sample ID : BH214

19,069,151 **Depth :** 3.00 - 4.00

19069151_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

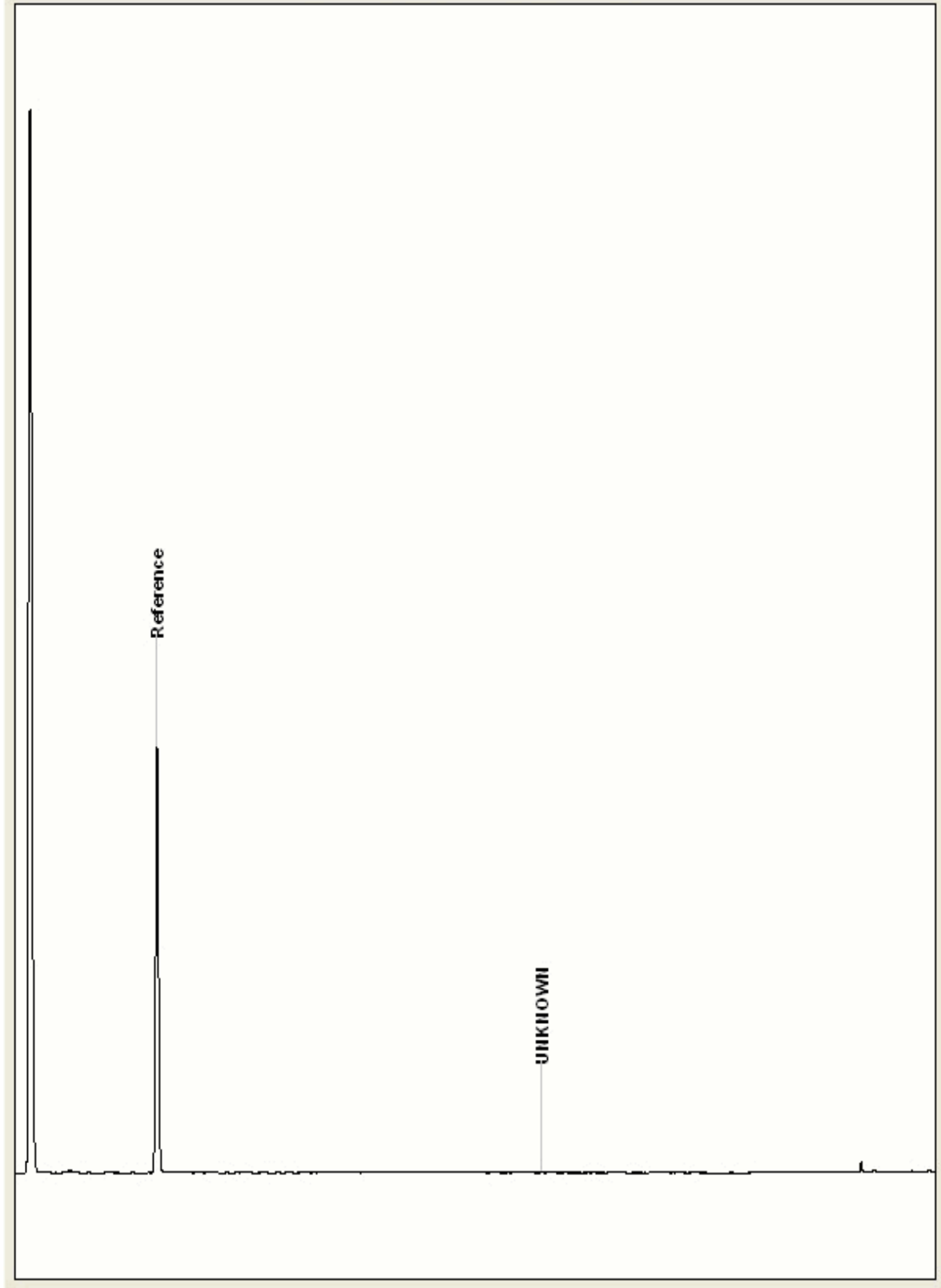
Chromatogram

Analysis: GRO by GC-FID (S)
19069172

Sample No :
Sample ID : BH217

19,069,172 Depth : 10.00 - 12.00

19069172_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

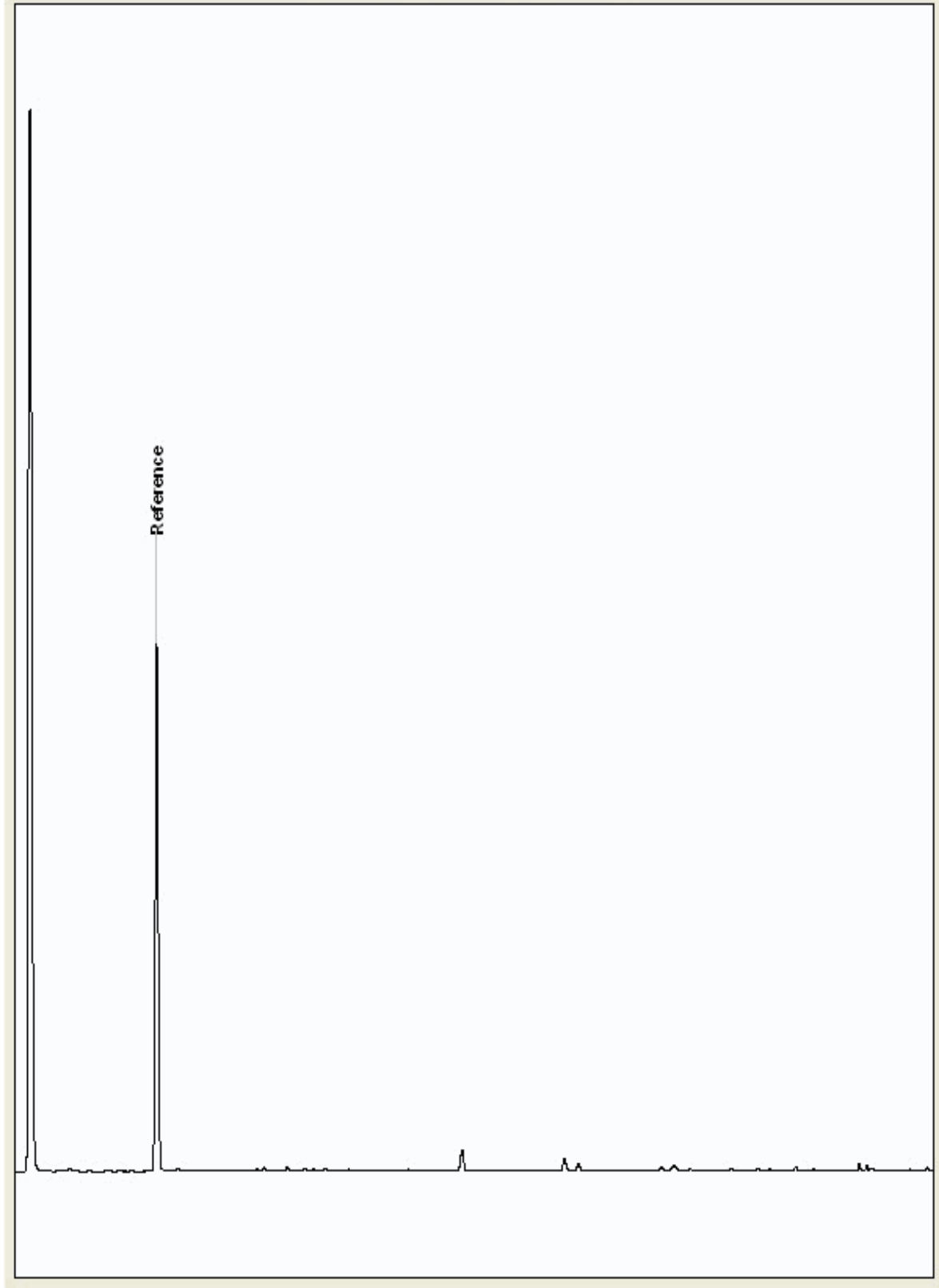
Chromatogram

Analysis: GRO by GC-FID (S)
19069308

Sample No :
Sample ID : BH215

19,069,308 Depth : 3.00 - 4.00

19069308_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

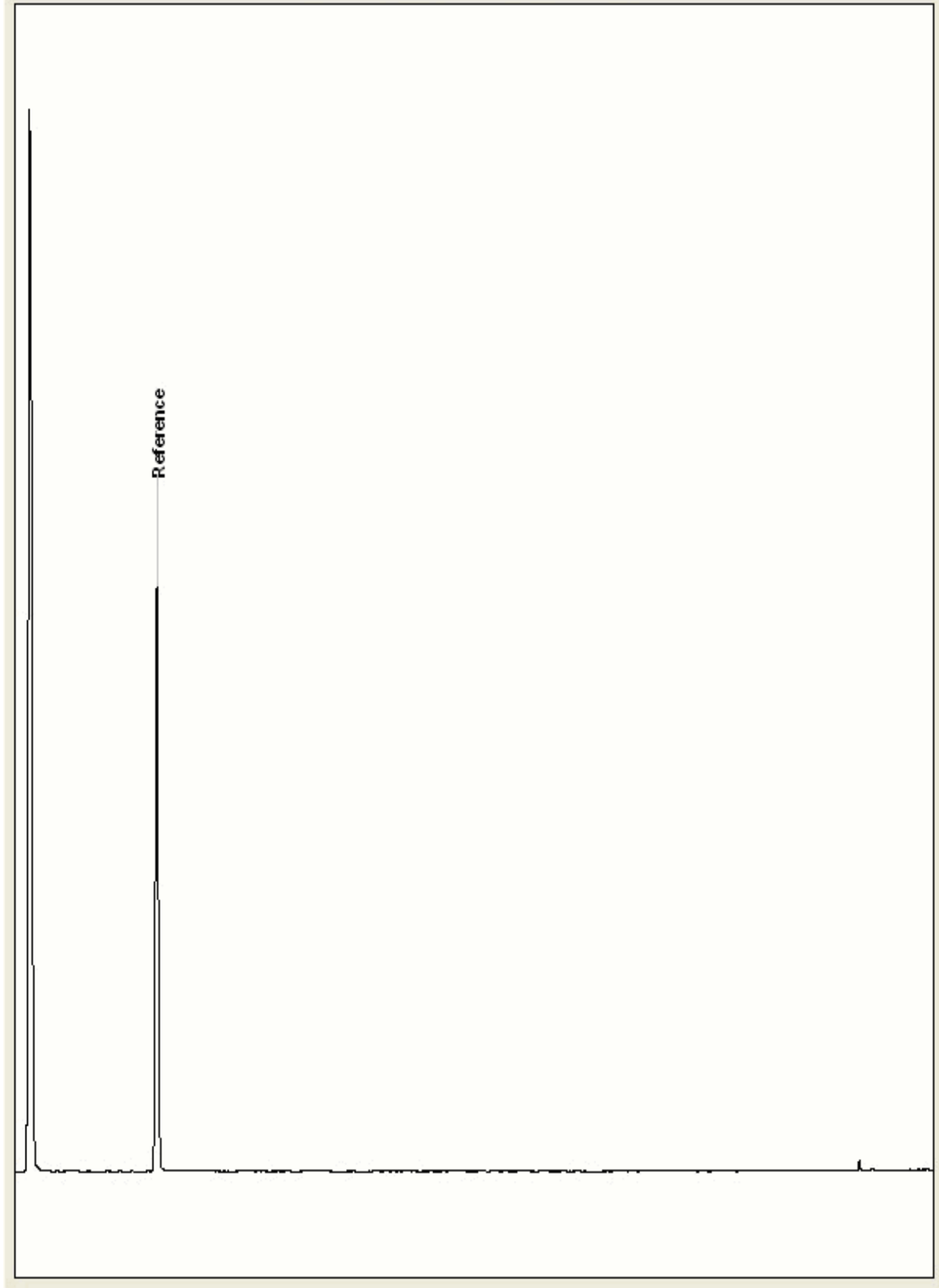
Chromatogram

Analysis: GRO by GC-FID (S)
19069353

Sample No :
Sample ID : BH215

19,069,353 **Depth :** 1.00 - 2.00

19069353_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

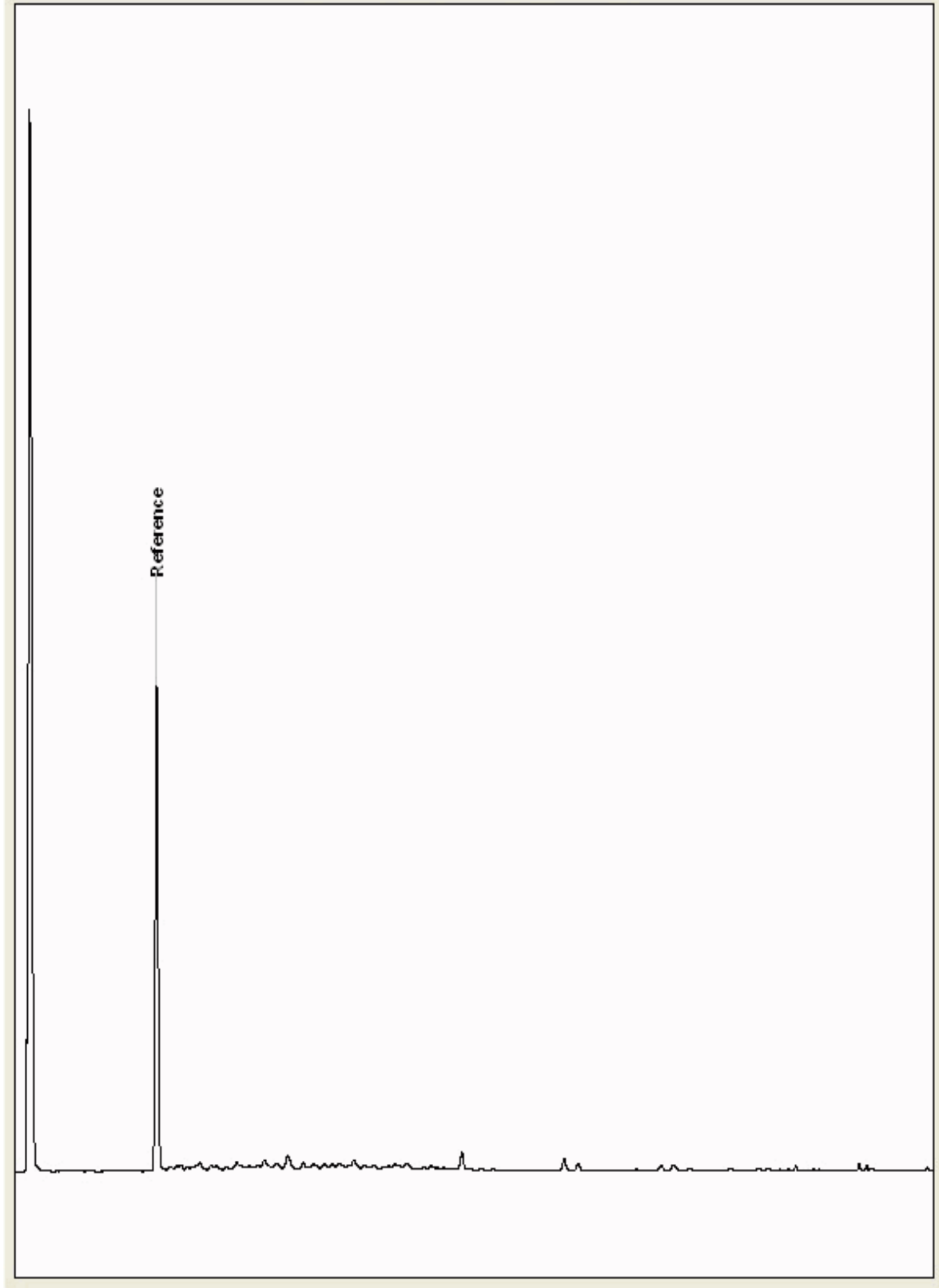
Chromatogram

Analysis: GRO by GC-FID (S)
19069416

Sample No :
Sample ID : BH216

19,069,416 Depth : 5.00 - 6.00

19069416_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

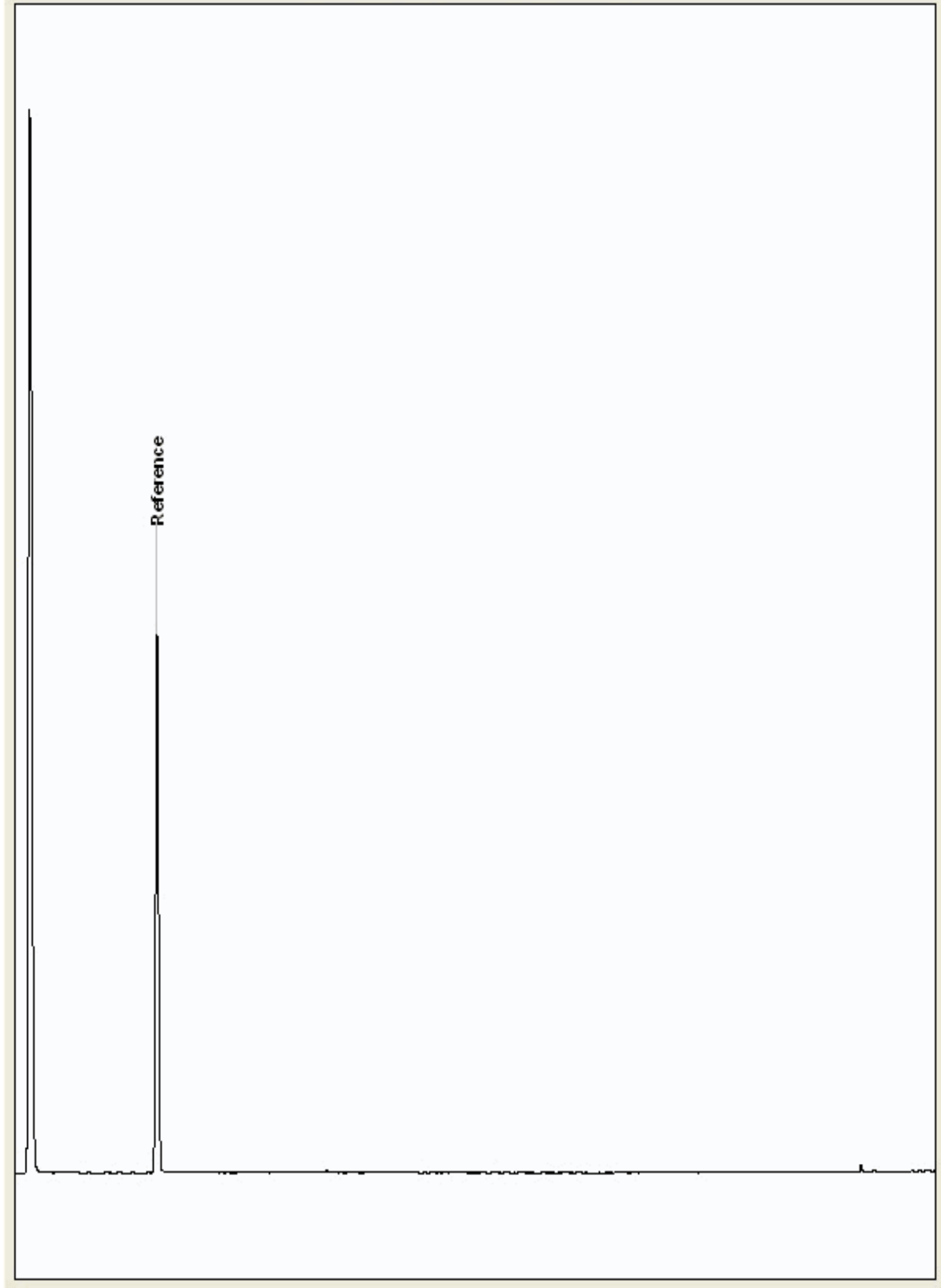
Chromatogram

Analysis: GRO by GC-FID (S)
19069457

Sample No :
Sample ID : BH215

19,069,457Depth :2.00 - 3.00

19069457_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

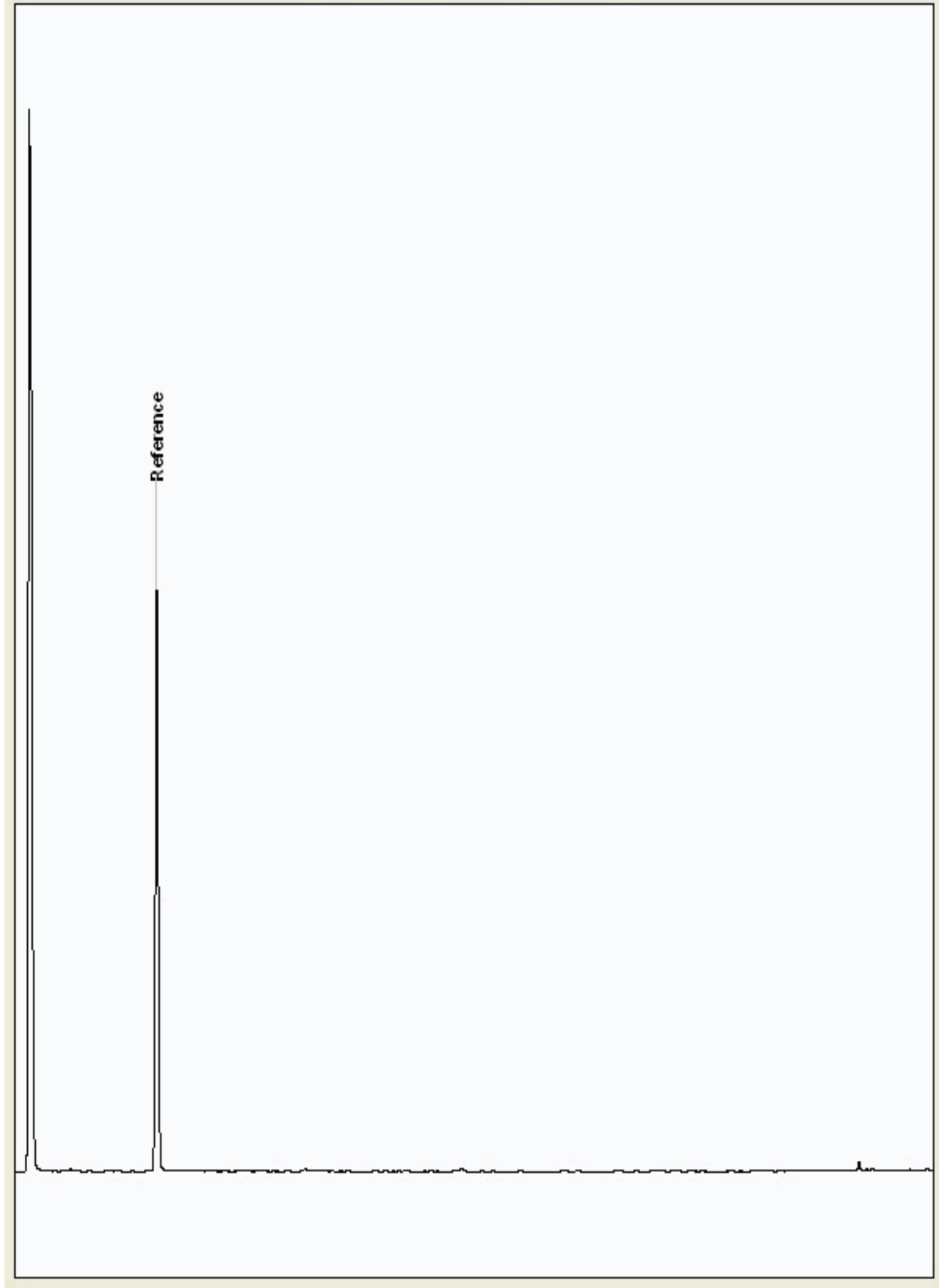
Chromatogram

Analysis: GRO by GC-FID (S)
19069498

Sample No :
Sample ID : BH215

19,069,498 **Depth :** 6.00 - 8.00

19069498_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

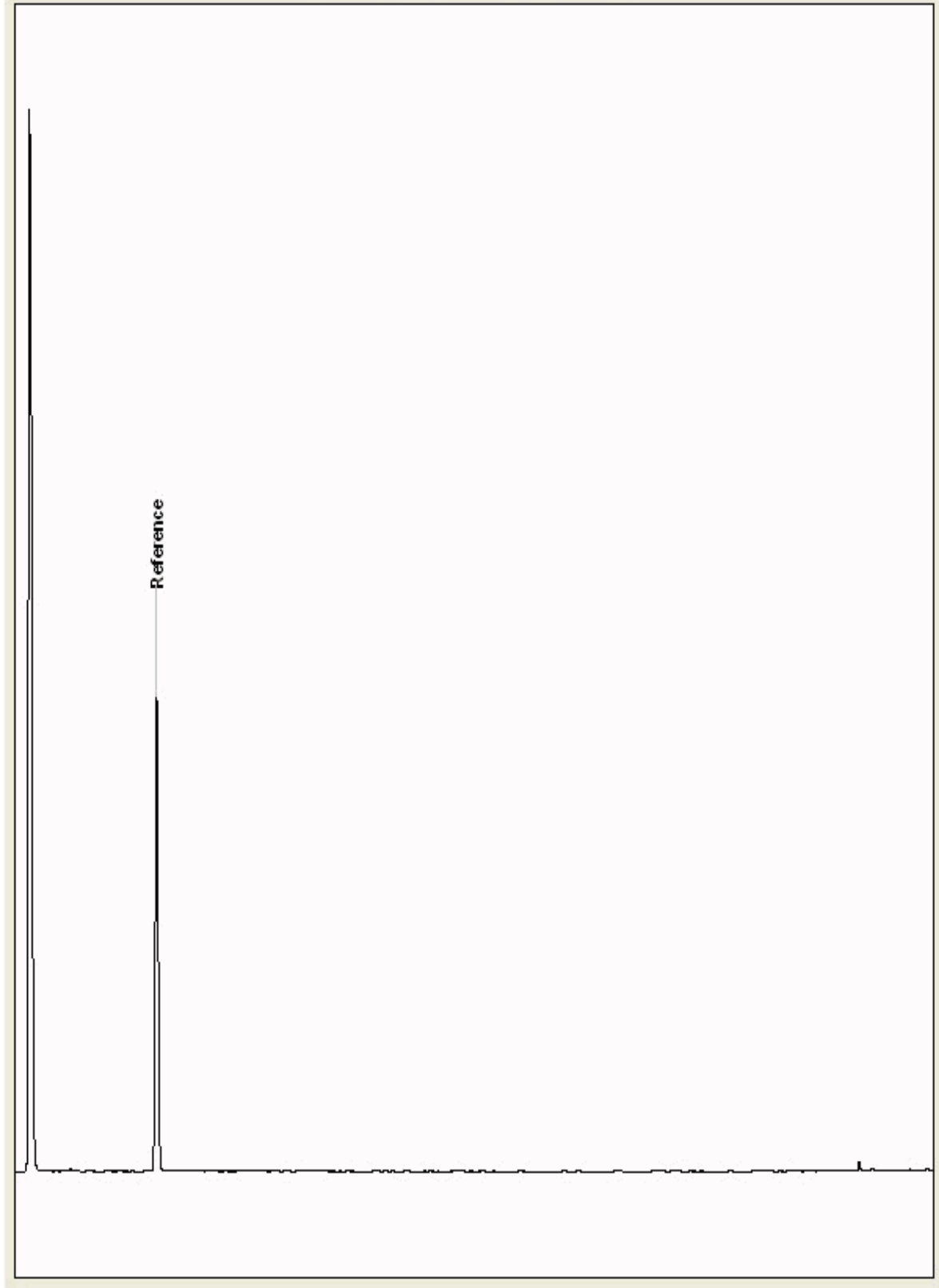
Chromatogram

Analysis: GRO by GC-FID (S)
19069623

Sample No :
Sample ID : BH214

19,069,623 Depth : 1.00 - 2.00

19069623_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

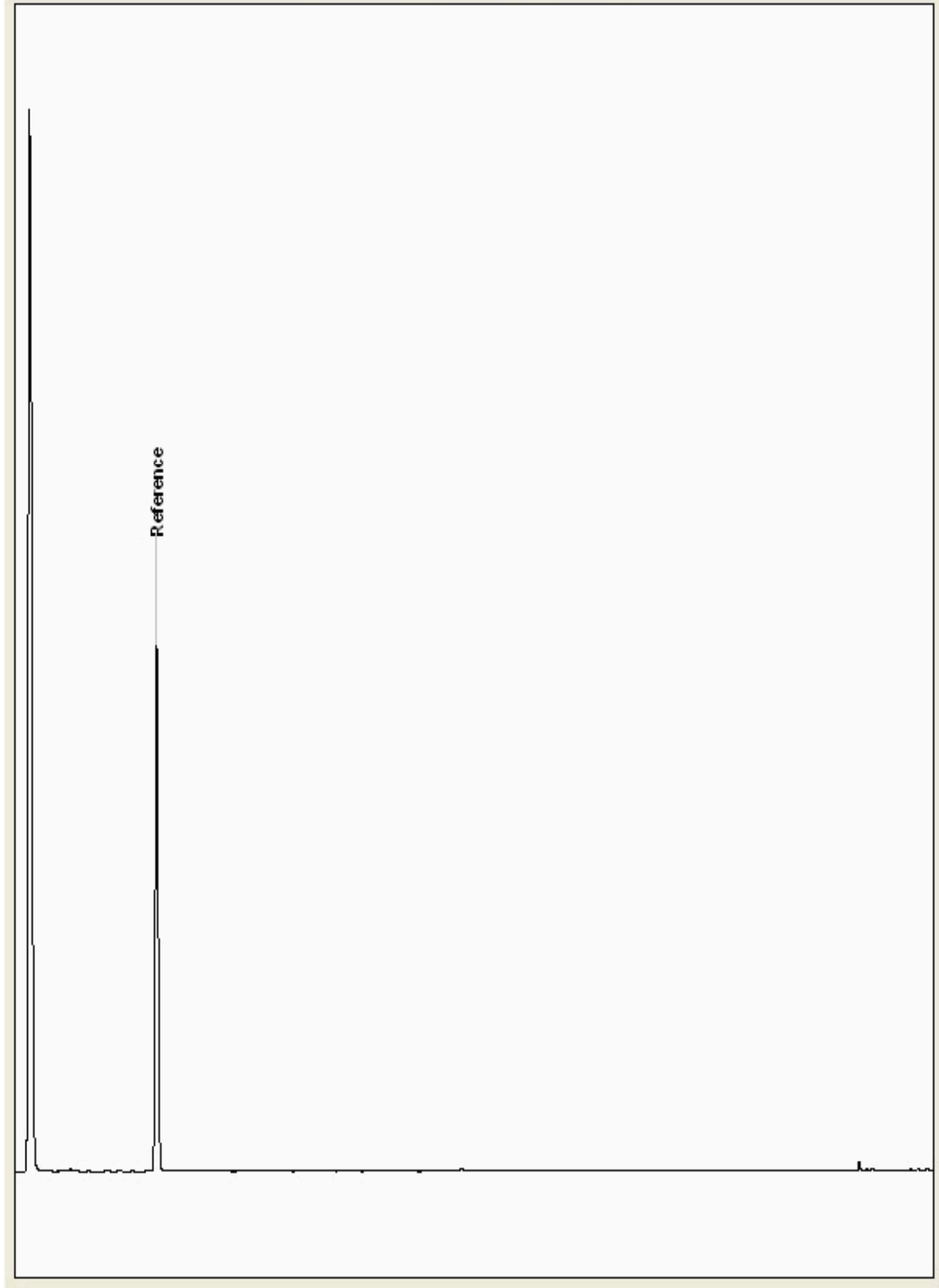
Chromatogram

Analysis: GRO by GC-FID (S)
19069715

Sample No :
Sample ID : BH216

19,069,715 **Depth :** 0.50 - 1.00

19069715_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

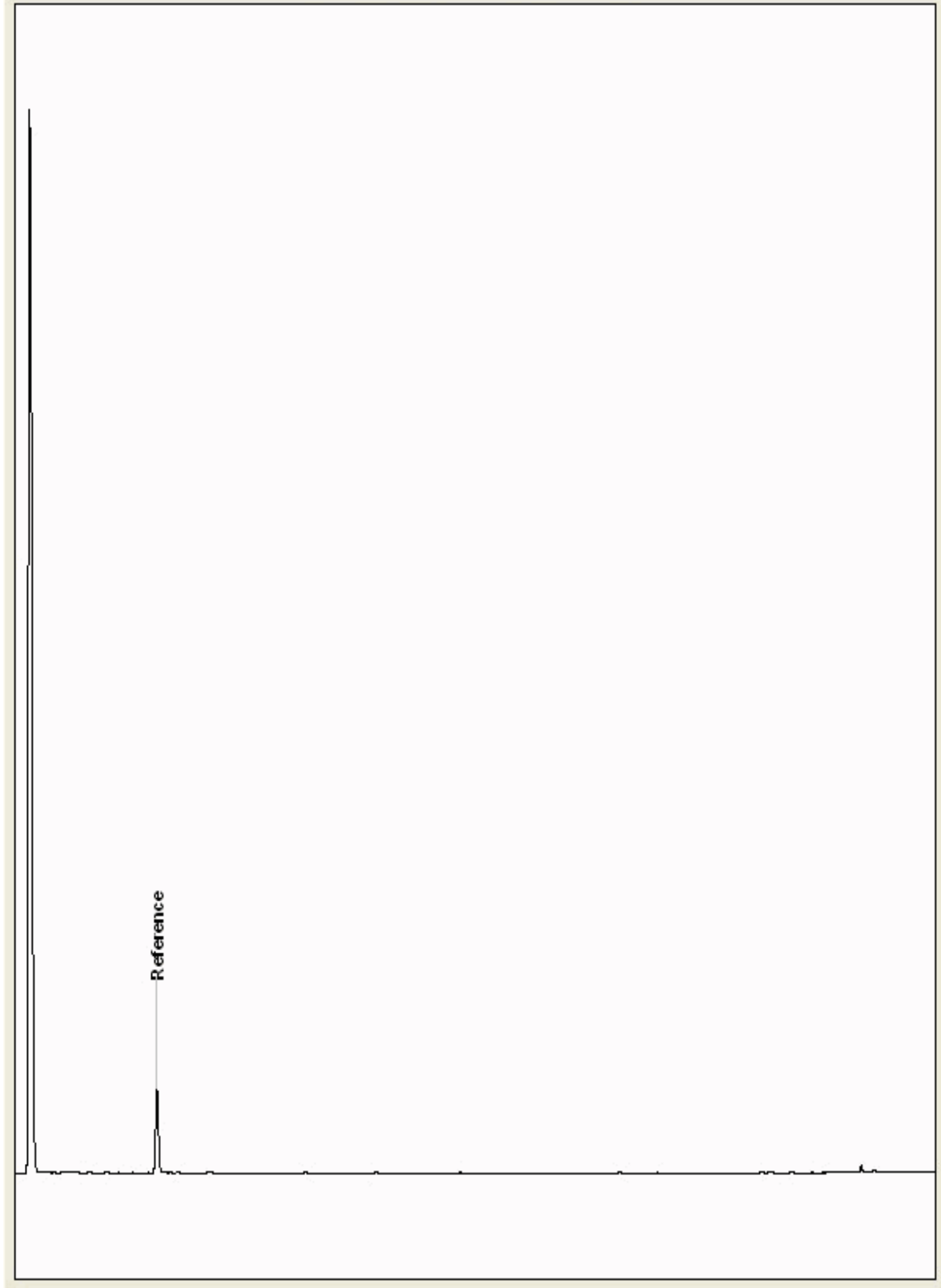
Chromatogram

Analysis: GRO by GC-FID (S)
19084909

Sample No :
Sample ID : BH215

19,084,909 **Depth :** 15.00 - 16.00

19084909_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

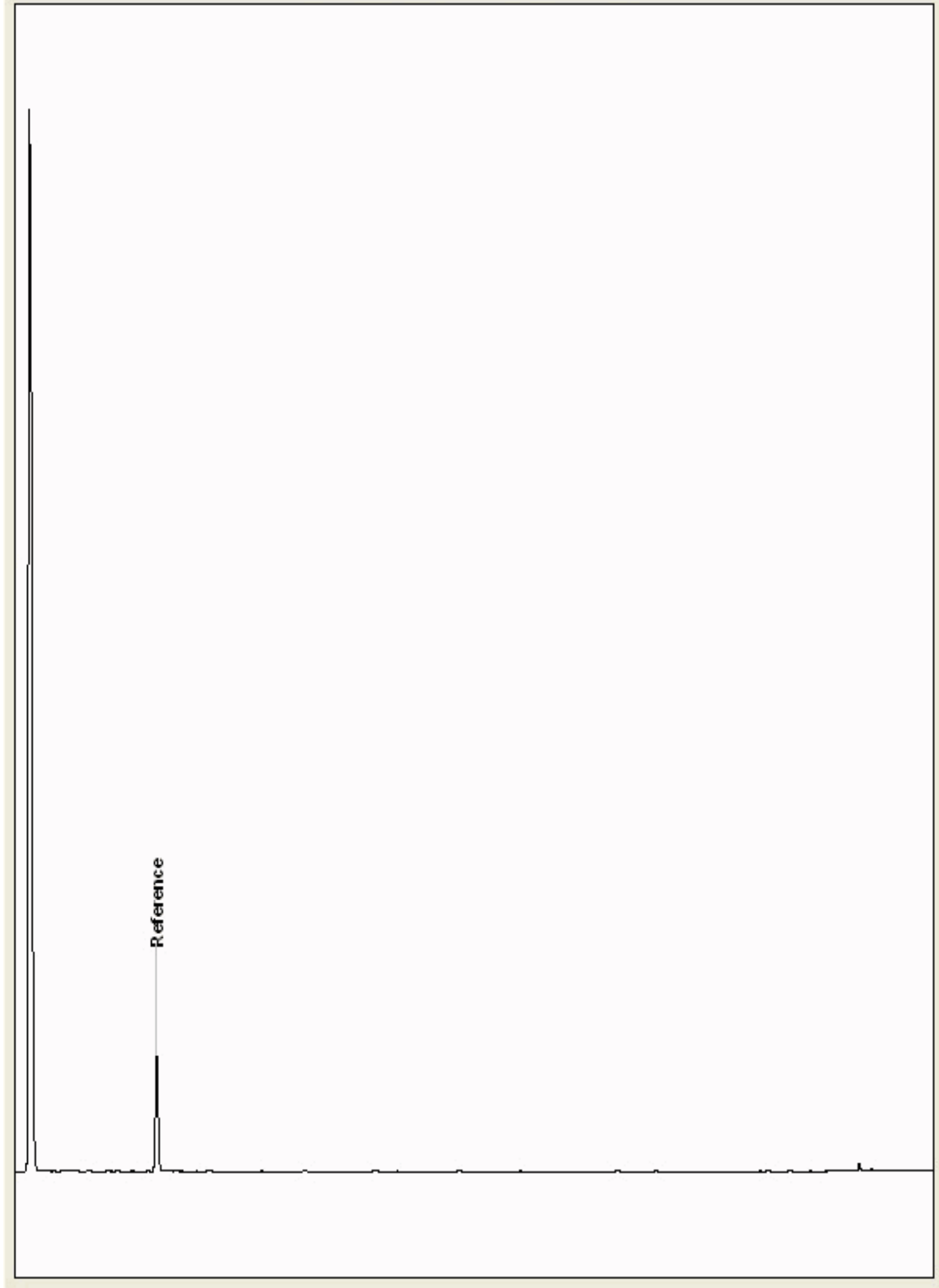
Chromatogram

Analysis: GRO by GC-FID (S)
19084957

Sample No :
Sample ID : BH217

19,084,957 **Depth :** 12.50 - 14.00

19084957_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

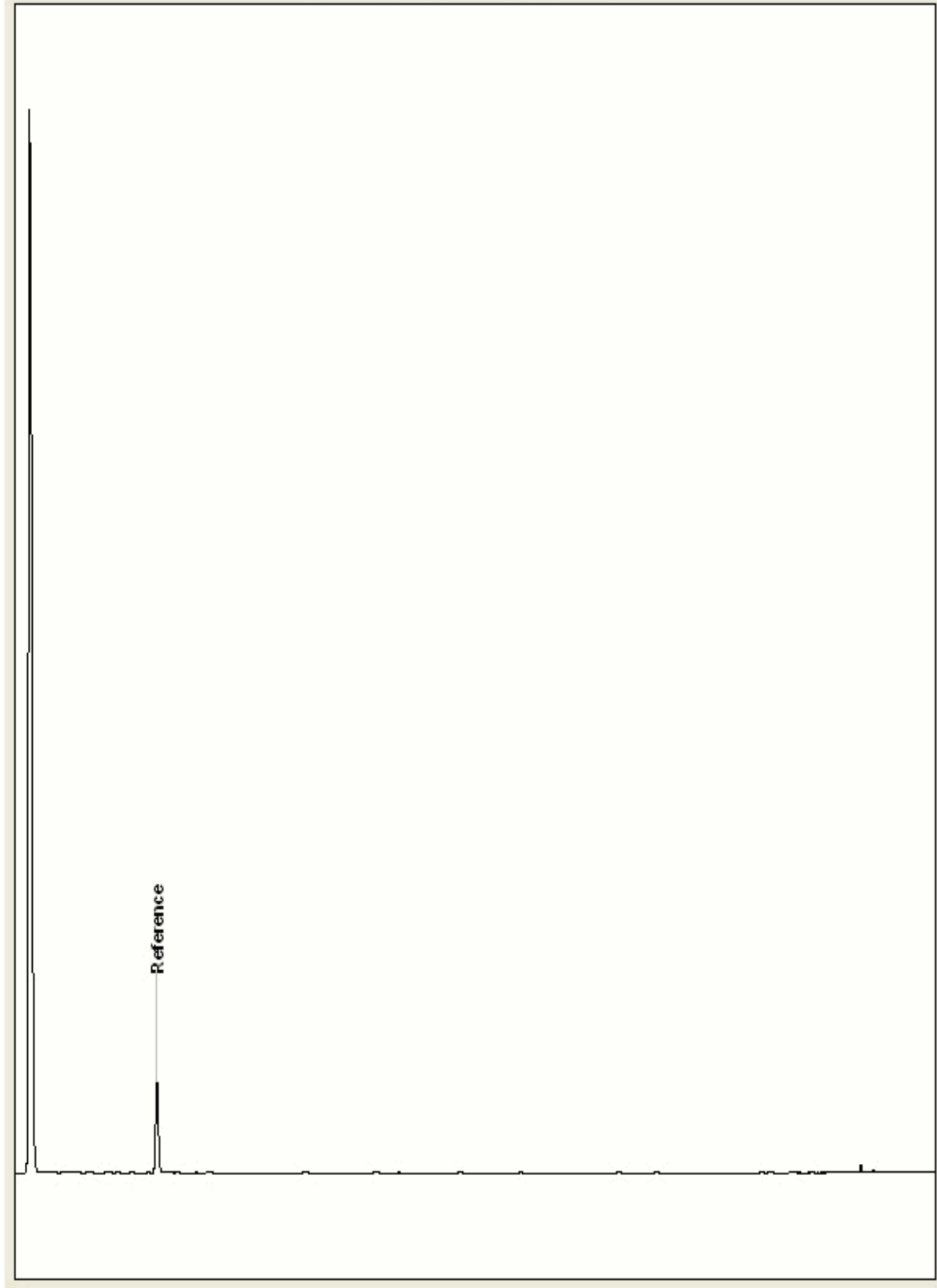
Chromatogram

Analysis: GRO by GC-FID (S)
19085043

Sample No :
Sample ID : BH216

19,085,043 Depth : 15.00 - 17.00

19085043_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

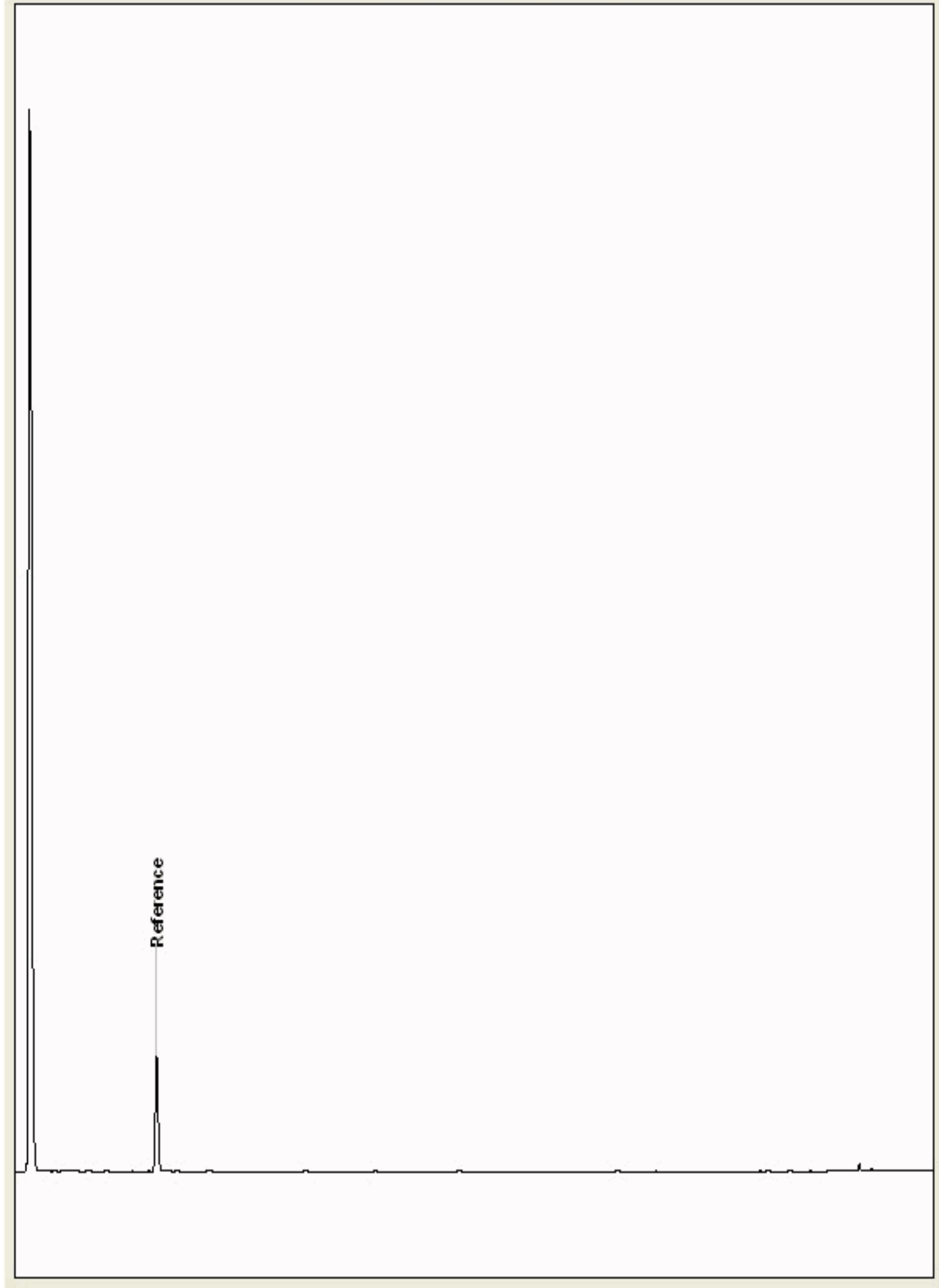
Chromatogram

Analysis: GRO by GC-FID (S)
19085166

Sample No :
Sample ID : BH215

19,085,166Depth : 13.00 - 15.00

19085166_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

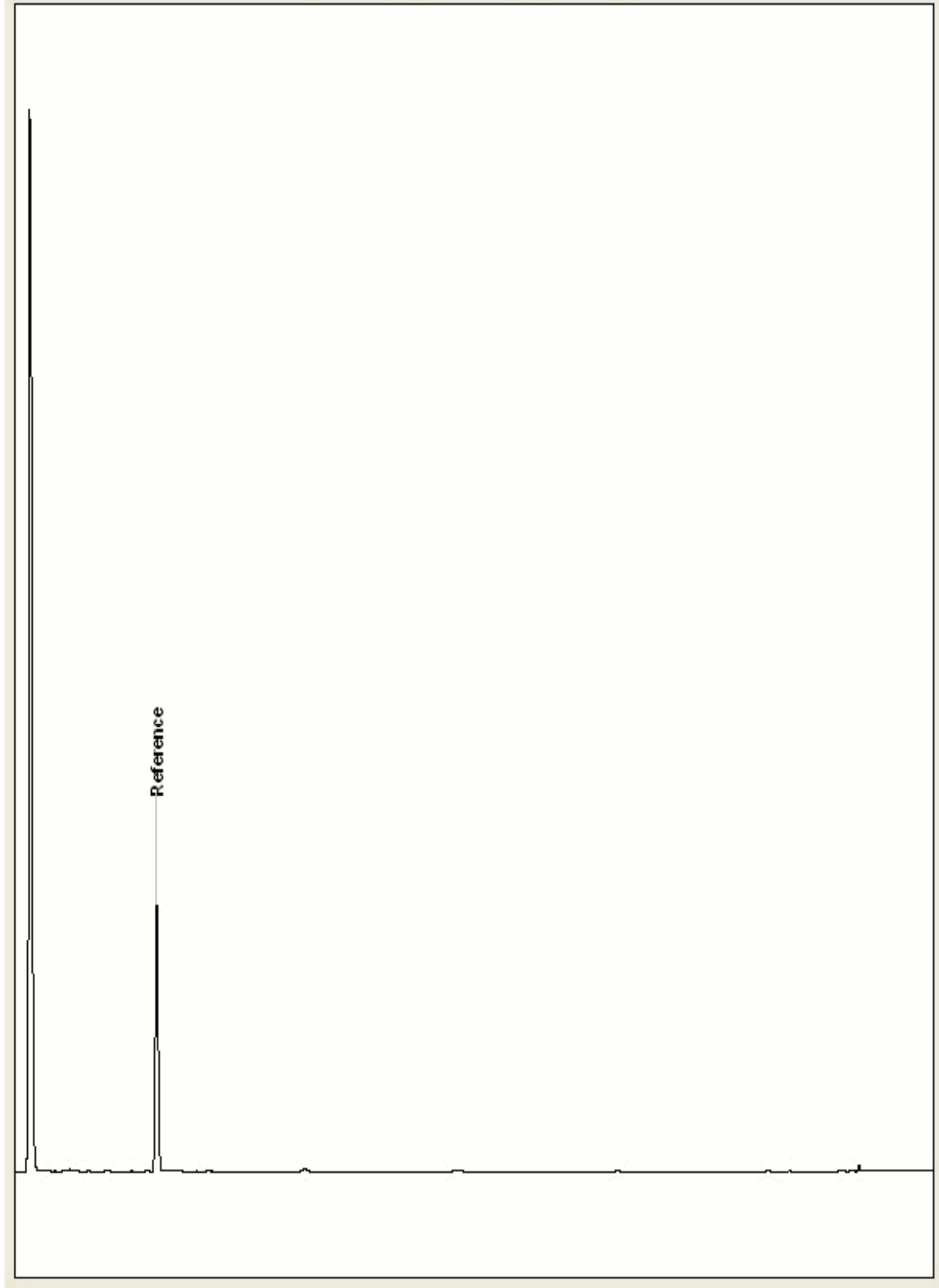
Chromatogram

Analysis: GRO by GC-FID (S)
19085207

Sample No :
Sample ID : BH214

19,085,207 **Depth :** 13.00 - 14.00

19085207_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

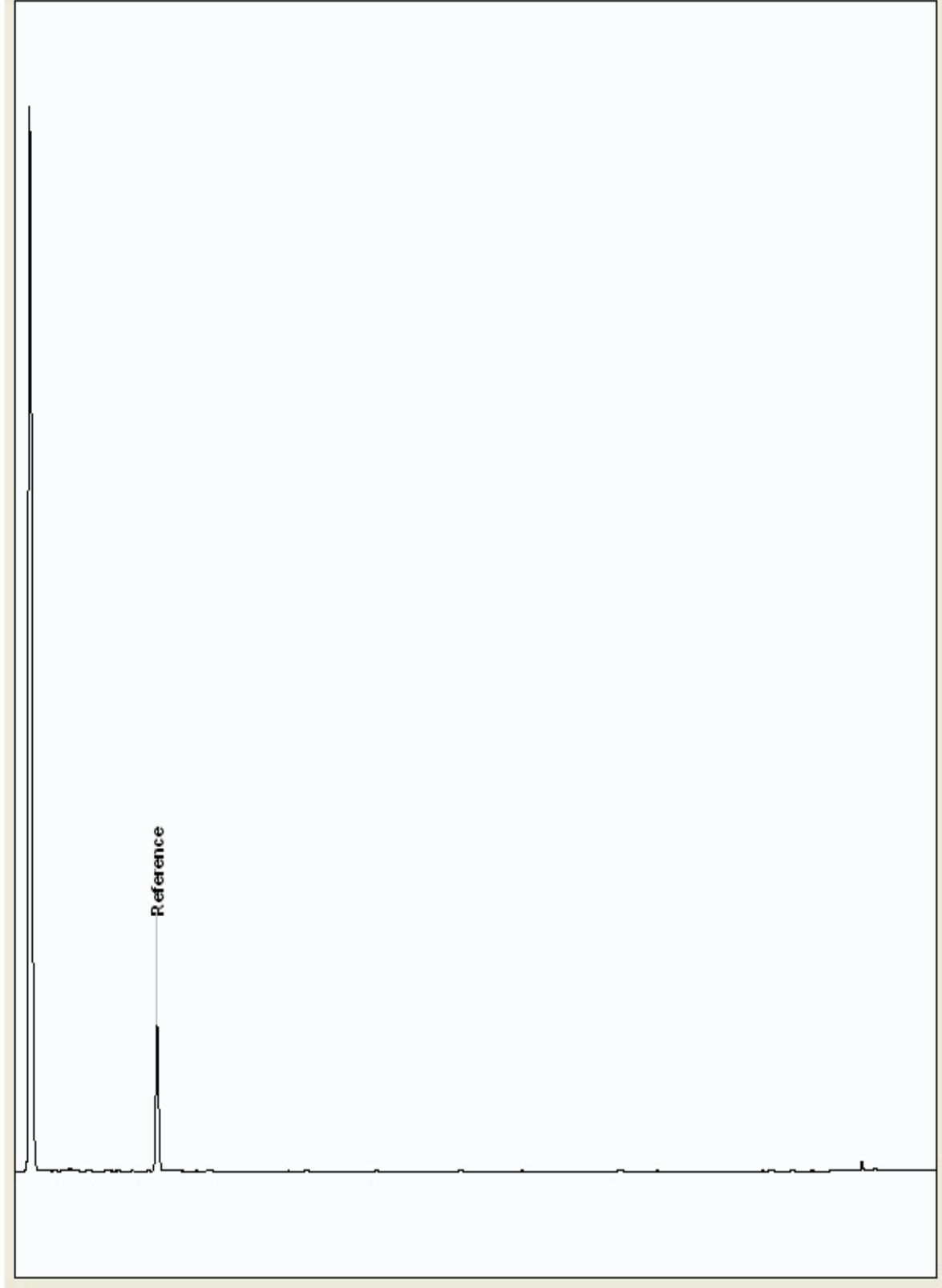
Chromatogram

Analysis: GRO by GC-FID (S)
19085296

Sample No :
Sample ID : BH216

19,085,296Depth : 13.00 - 14.00

19085296_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

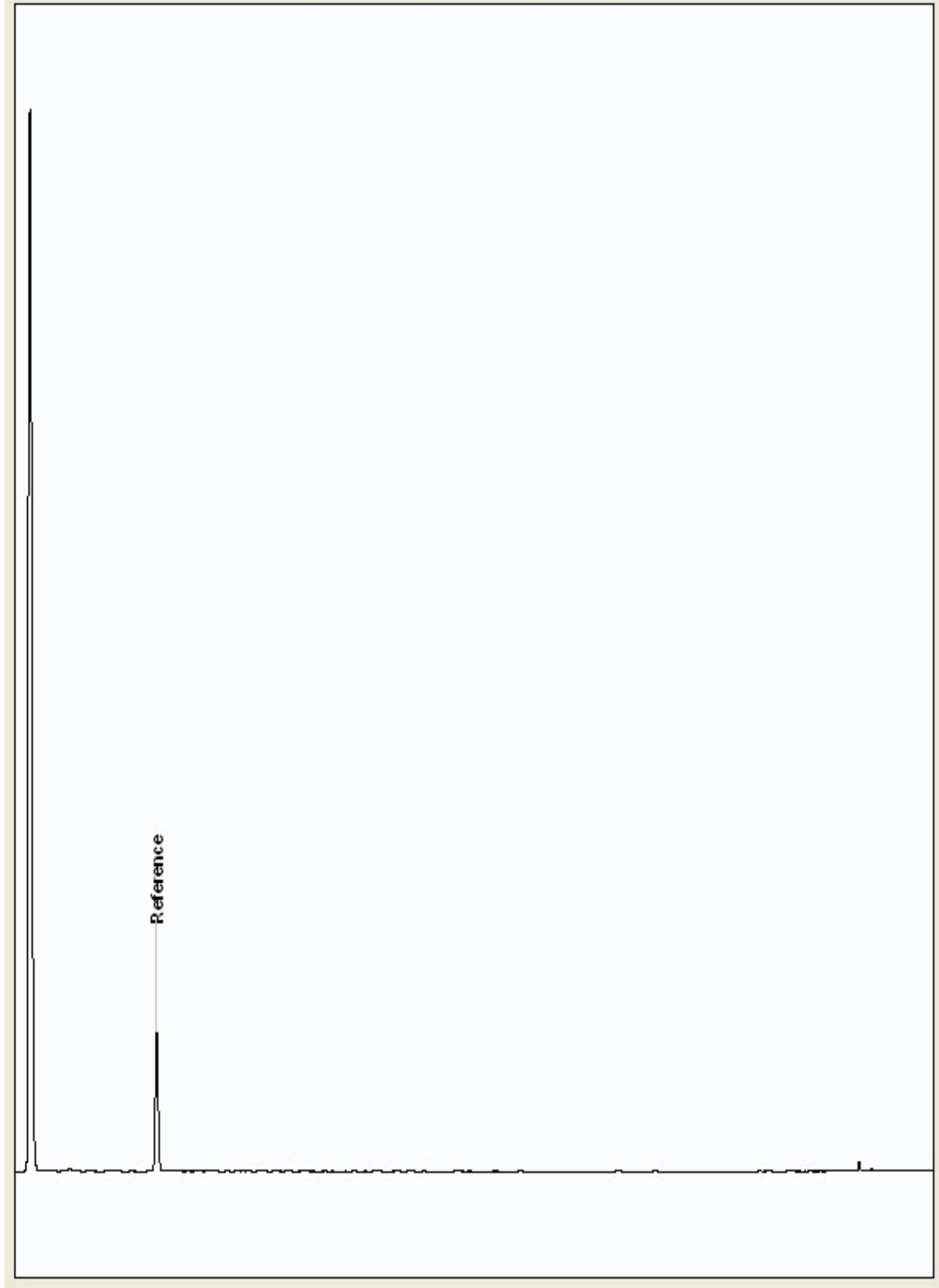
Chromatogram

Analysis: GRO by GC-FID (S)
19085307

Sample No :
Sample ID : BH217

19,085,307 **Depth :** 15.00 - 16.00

19085307_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

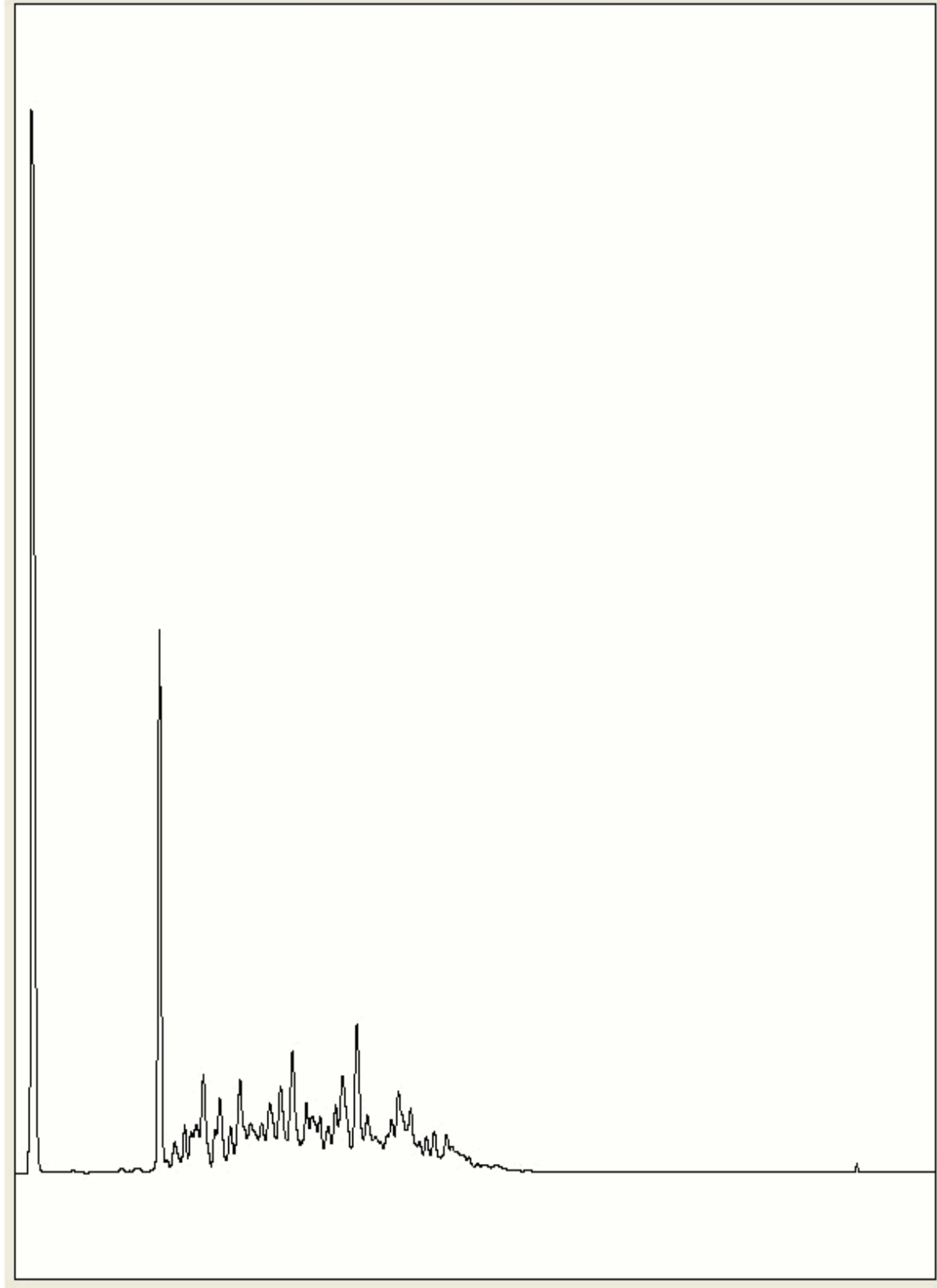
Chromatogram

Analysis: GRO by GC-FID (S)
19085920

Sample No :
Sample ID : BH216

19,085,920**Depth :** 1.00 - 2.00

19085920_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19086241

Sample No :
Sample ID : BH217

19,086,241 **Depth :** 1.00 - 2.00

19086241_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

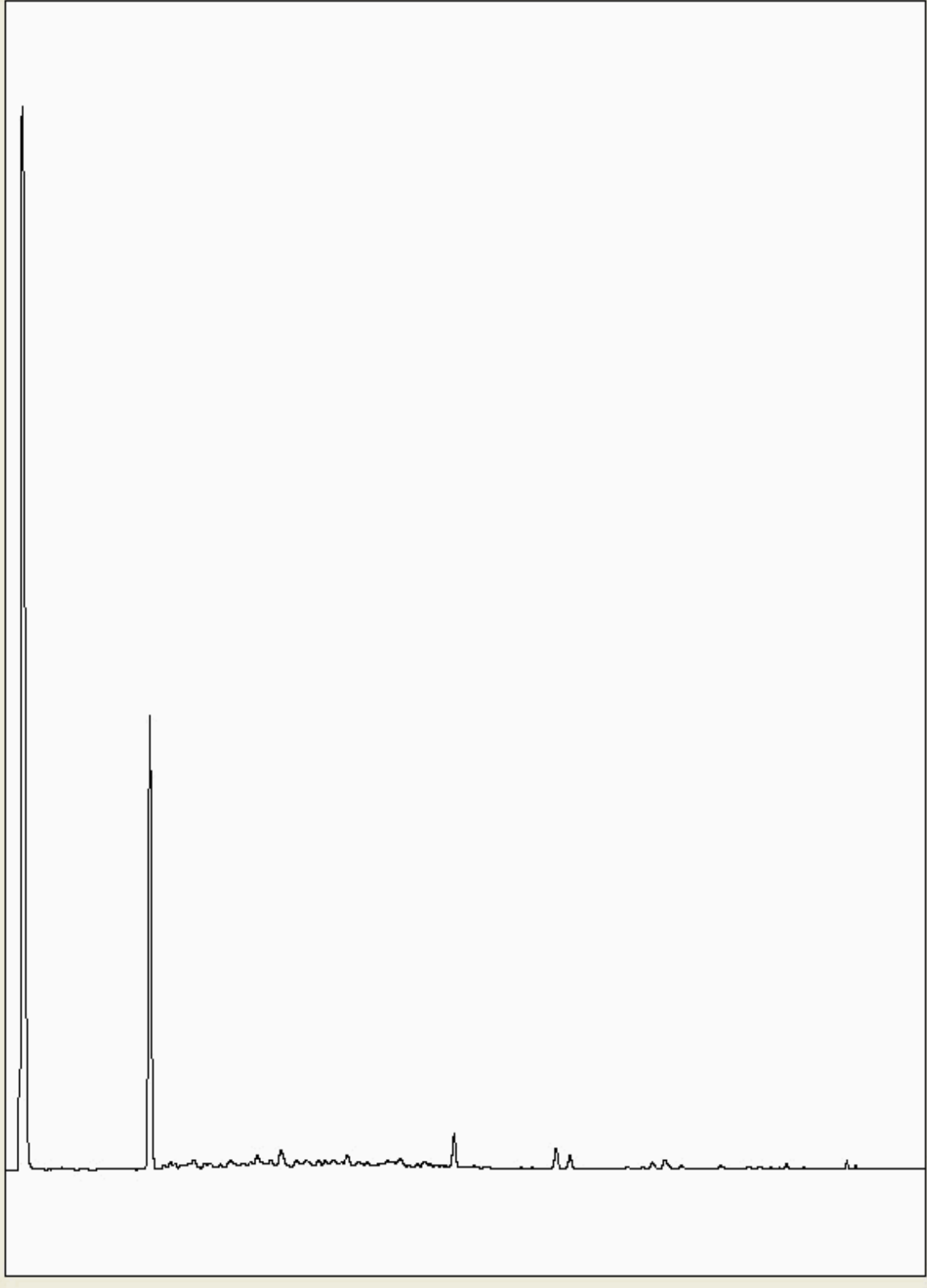
Chromatogram

Analysis: GRO by GC-FID (S)
19086441

Sample No :
Sample ID : BH216

19,086,441 **Depth :** 2.00 - 3.00

19086441_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

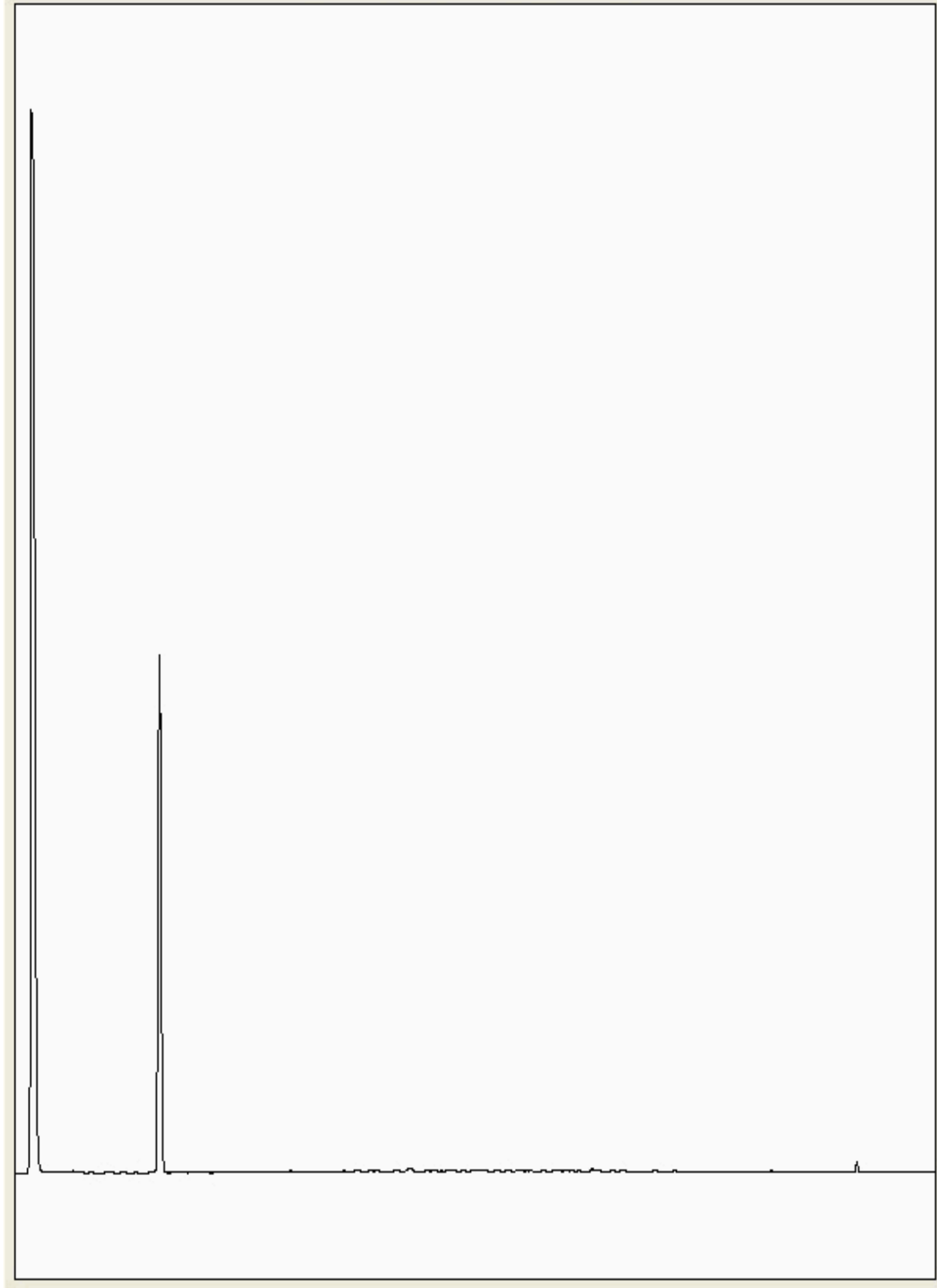
Chromatogram

Analysis: GRO by GC-FID (S)
19086475

Sample No :
Sample ID : BH217

19,086,475 **Depth :** 0.00 - 0.50

19086475_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

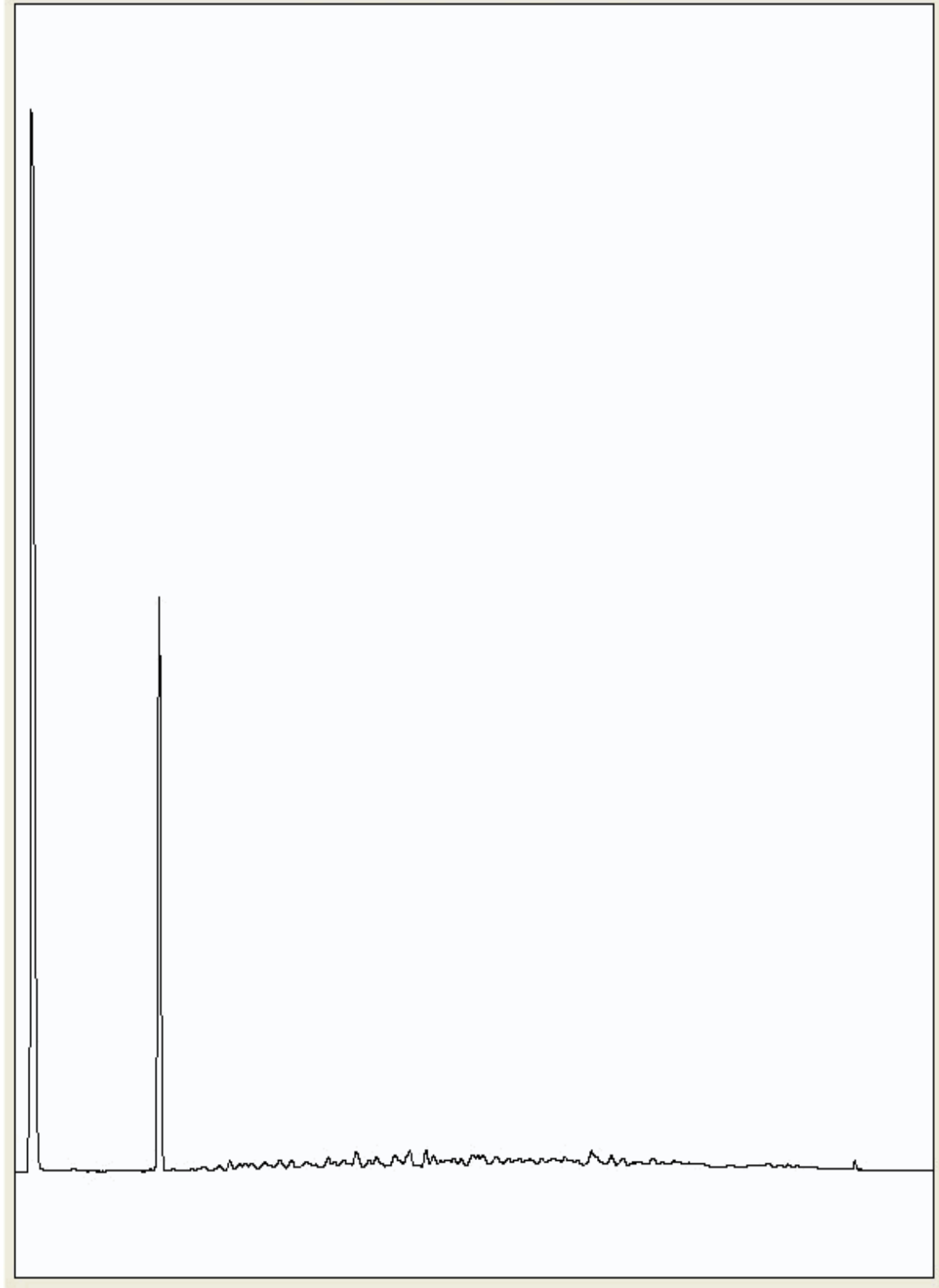
Chromatogram

Analysis: GRO by GC-FID (S)
19086498

Sample No :
Sample ID : BH217

19,086,498 **Depth :** 3.00 - 4.00

19086498_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

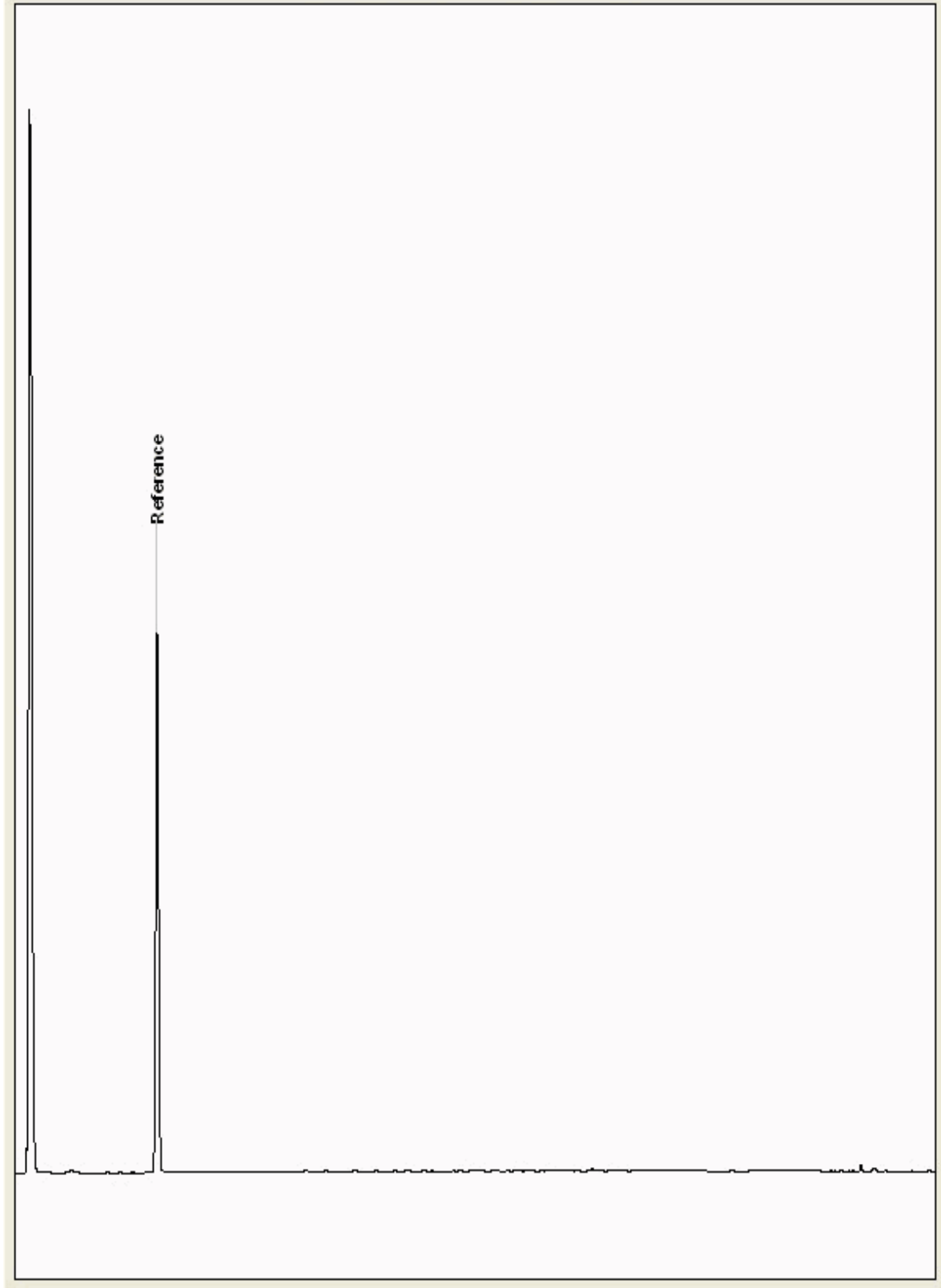
Chromatogram

Analysis: GRO by GC-FID (S)
19087594

Sample No :
Sample ID : BH217

19,087,594Depth :4.00 - 5.00

19087594_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

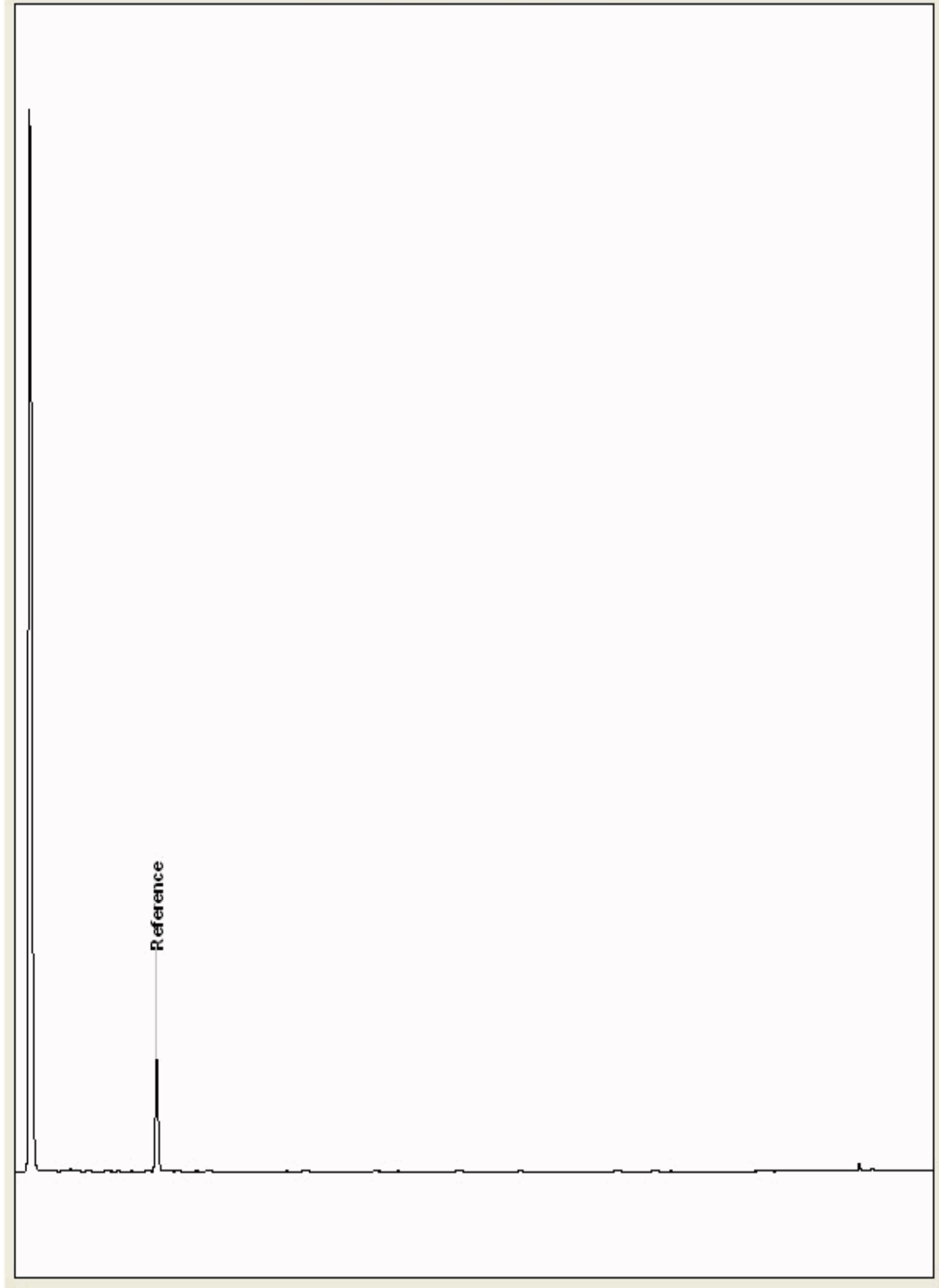
Chromatogram

Analysis: GRO by GC-FID (S)
19087602

Sample No :
Sample ID : BH214

19,087,602 **Depth :** 14.00 - 15.00

19087602_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

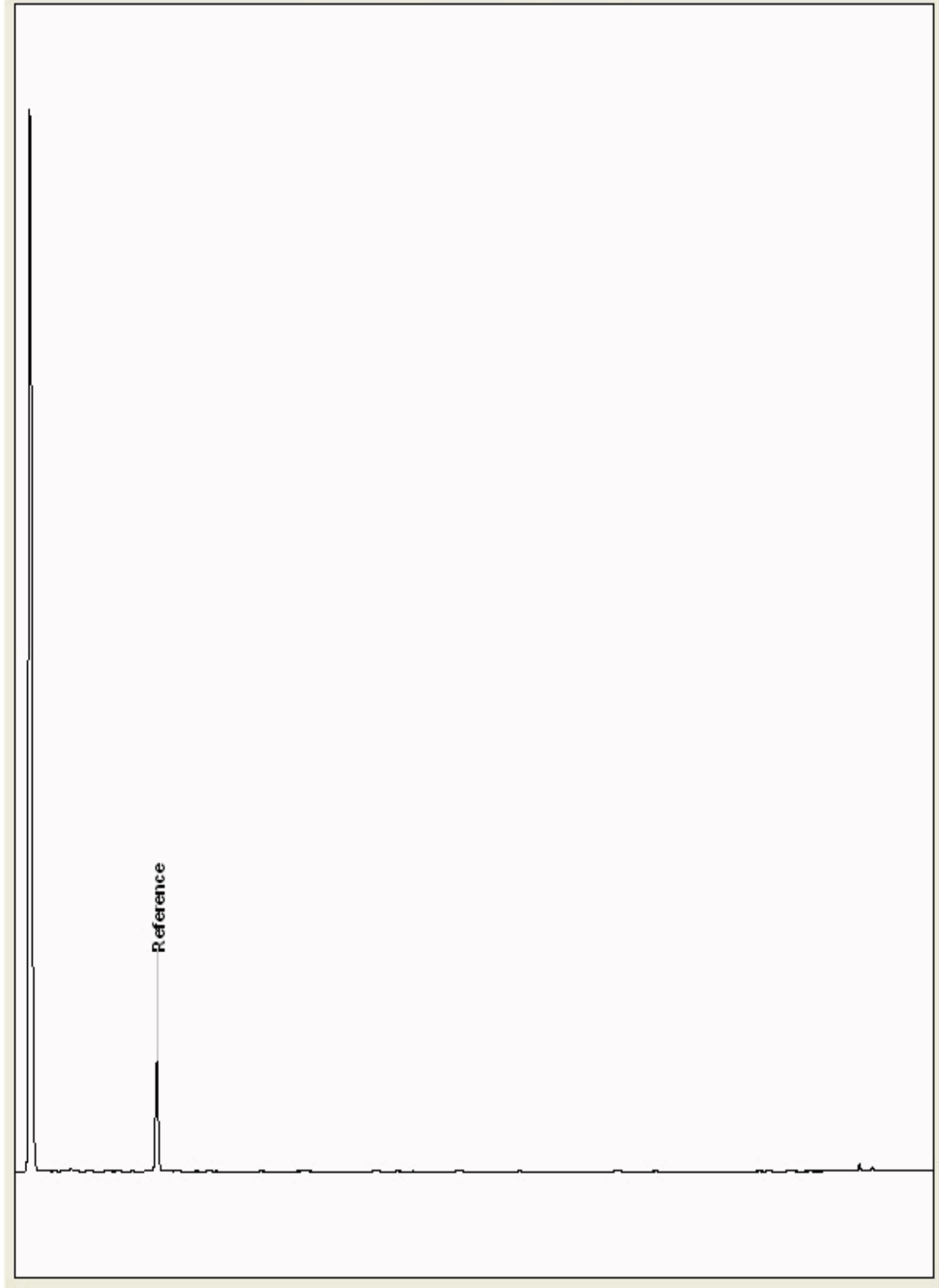
Chromatogram

Analysis: GRO by GC-FID (S)
19087608

Sample No :
Sample ID : BH217

19,087,608 **Depth :** 14.00 - 15.00

19087608_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

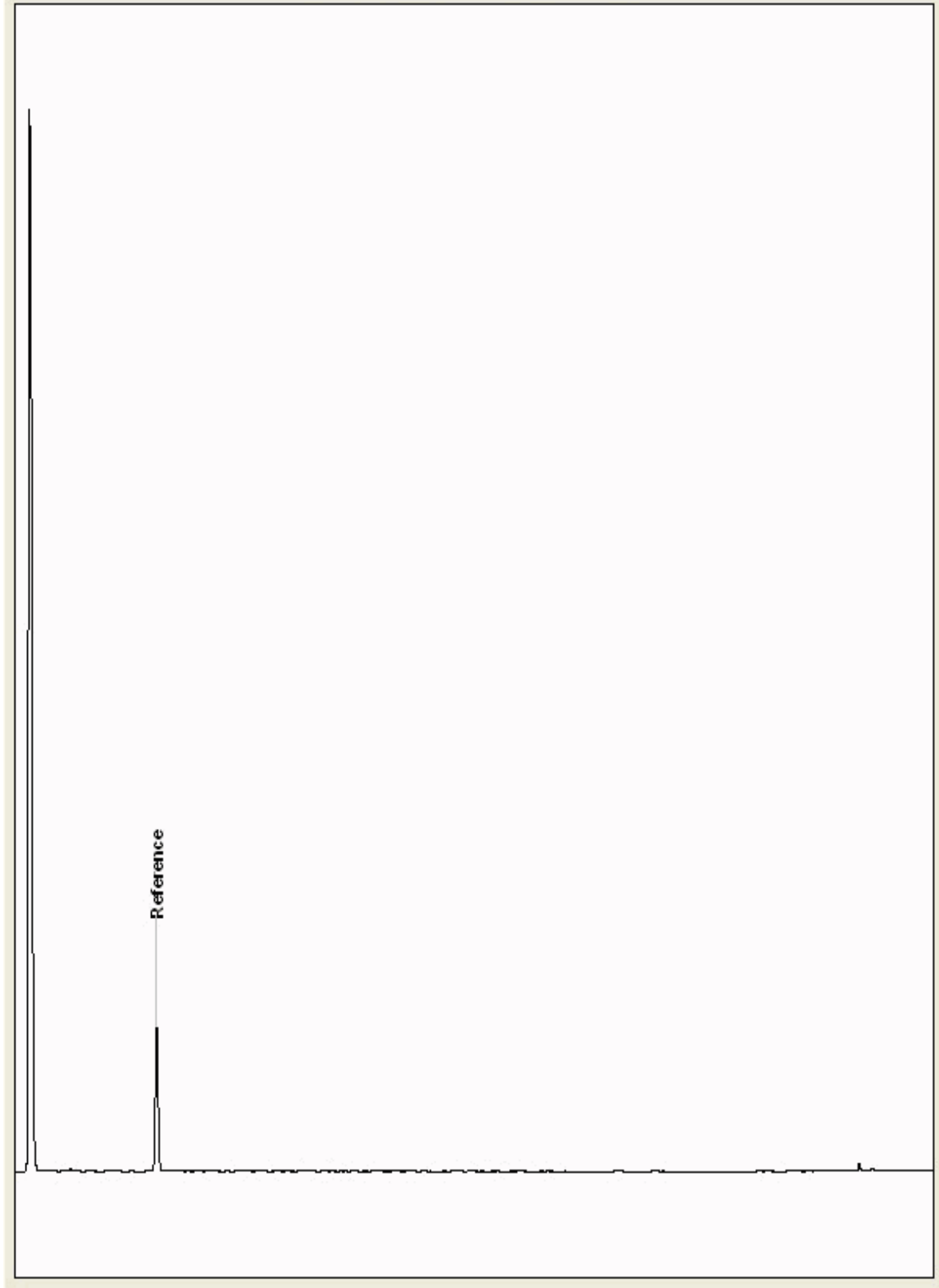
Chromatogram

Analysis: GRO by GC-FID (S)
19087613

Sample No :
Sample ID : BH217

19,087,613 **Depth :** 16.00 - 17.00

19087613_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

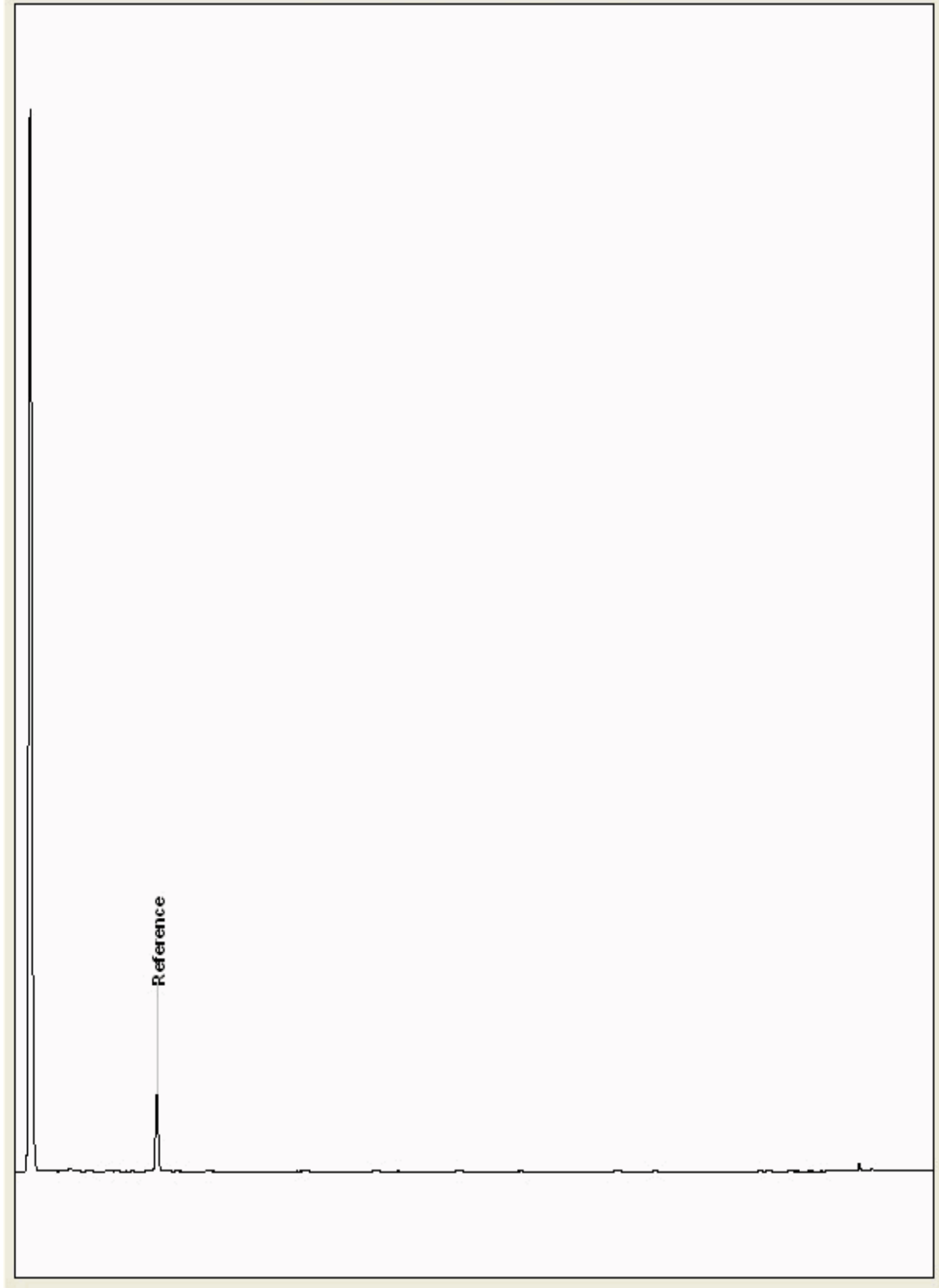
Chromatogram

Analysis: GRO by GC-FID (S)
19087627

Sample No :
Sample ID : BH215

19,087,627 **Depth :** 16.00 - 17.00

19087627_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

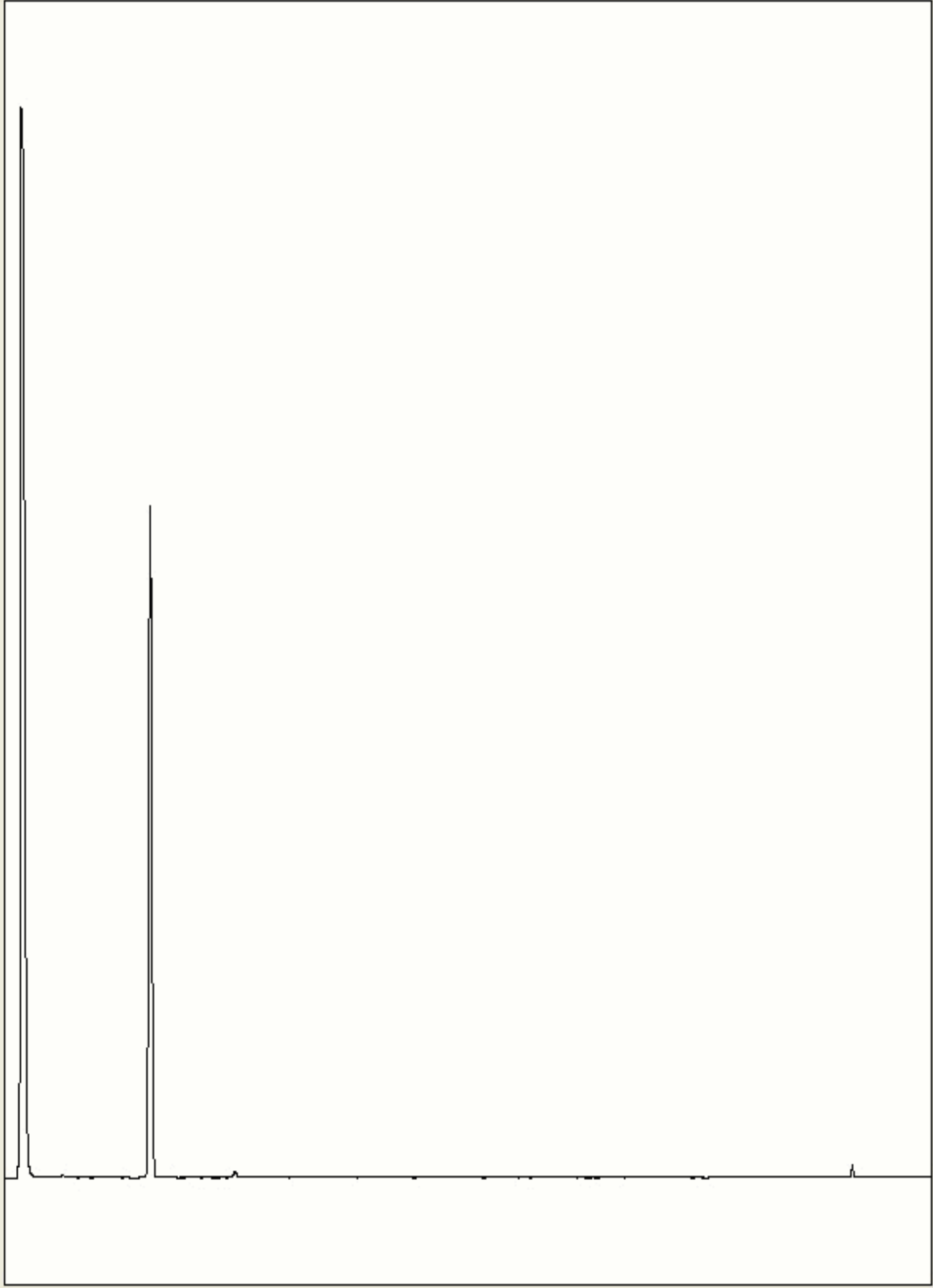
Chromatogram

Analysis: GRO by GC-FID (S)
19093620

Sample No :
Sample ID : BH214

19,093,620**Depth :**4.00 - 5.00

19093620_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

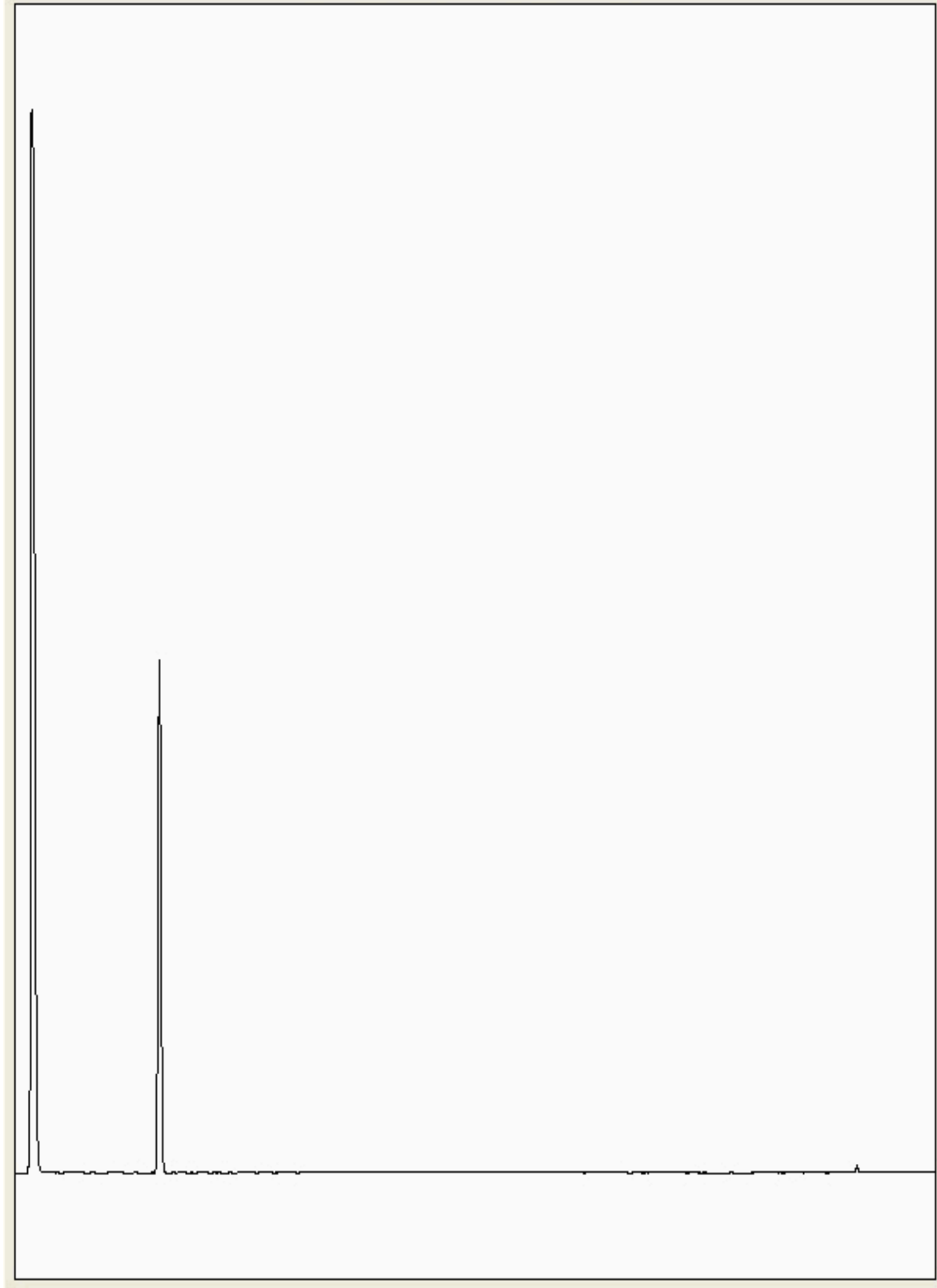
Chromatogram

Analysis: GRO by GC-FID (S)
19093648

Sample No :
Sample ID : BH217

19,093,648 **Depth :** 10.00 - 12.00

19093648_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

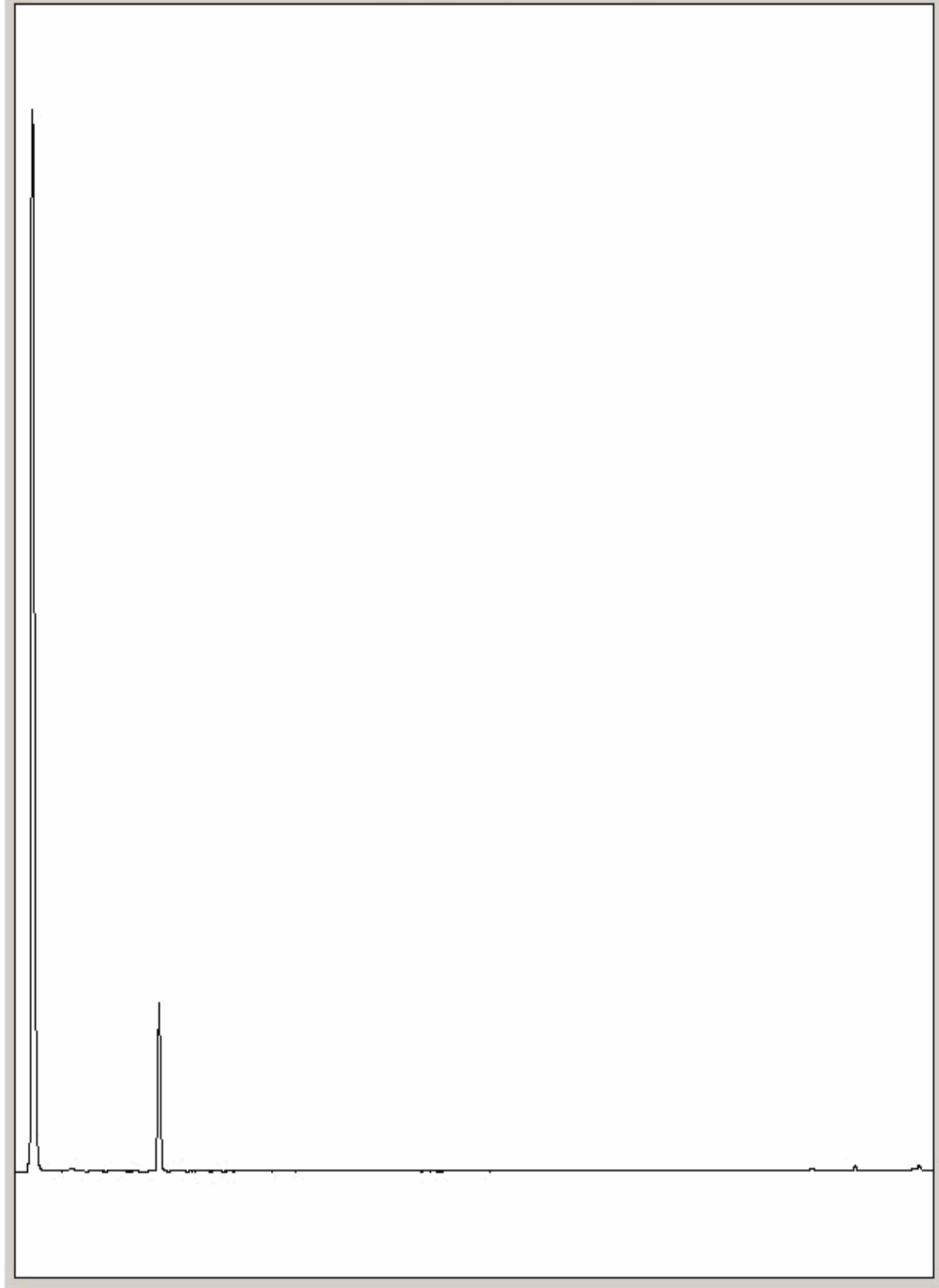
Chromatogram

Analysis: GRO by GC-FID (S)
19096518

Sample No :
Sample ID : BH214

19,096,518 **Depth :** 0.00 - 0.50

19096518_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

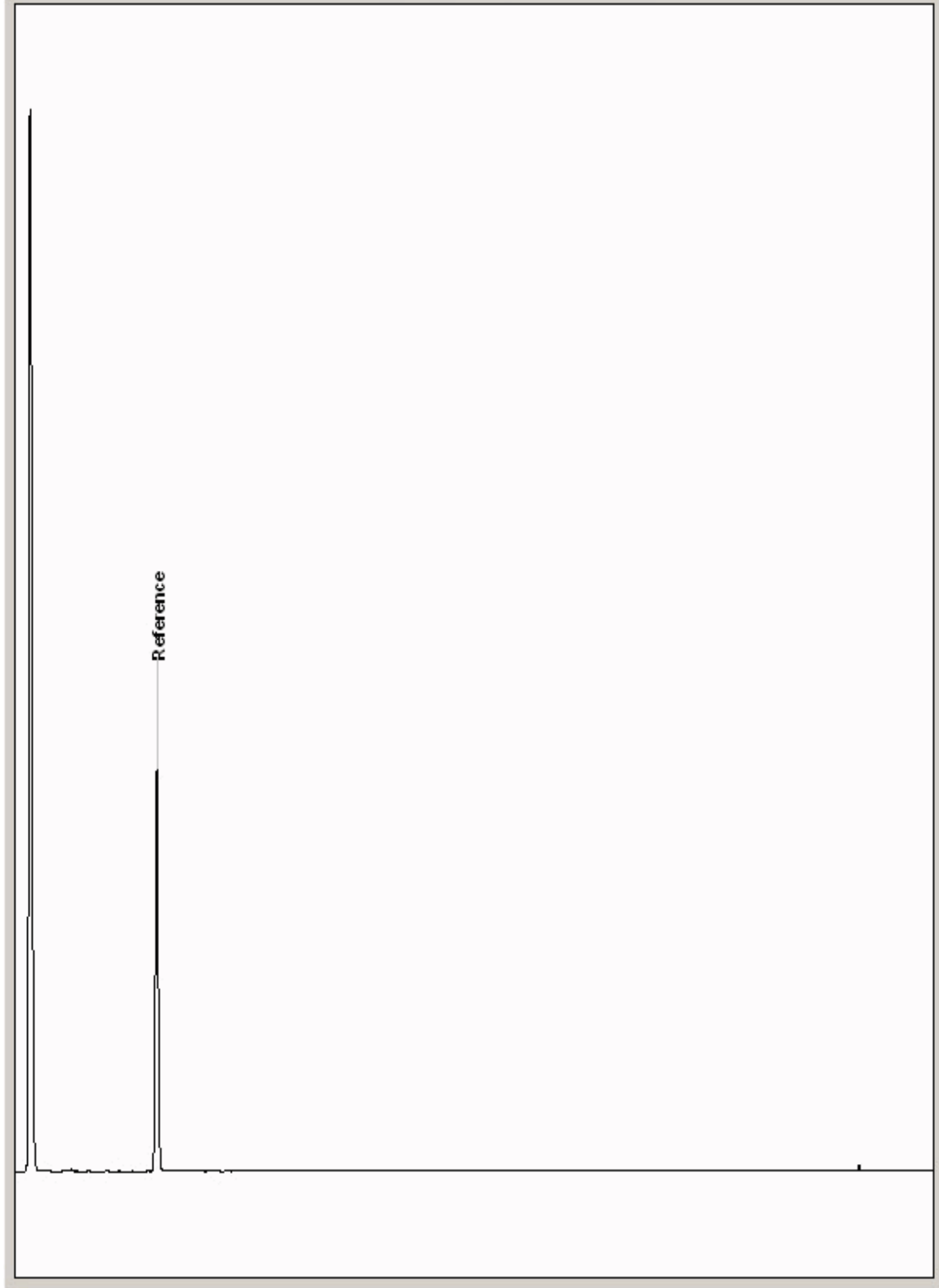
Chromatogram

Analysis: GRO by GC-FID (S)
19105812

Sample No :
Sample ID : BH217

19,105,812 **Depth :** 6.00 - 8.00

19105812_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

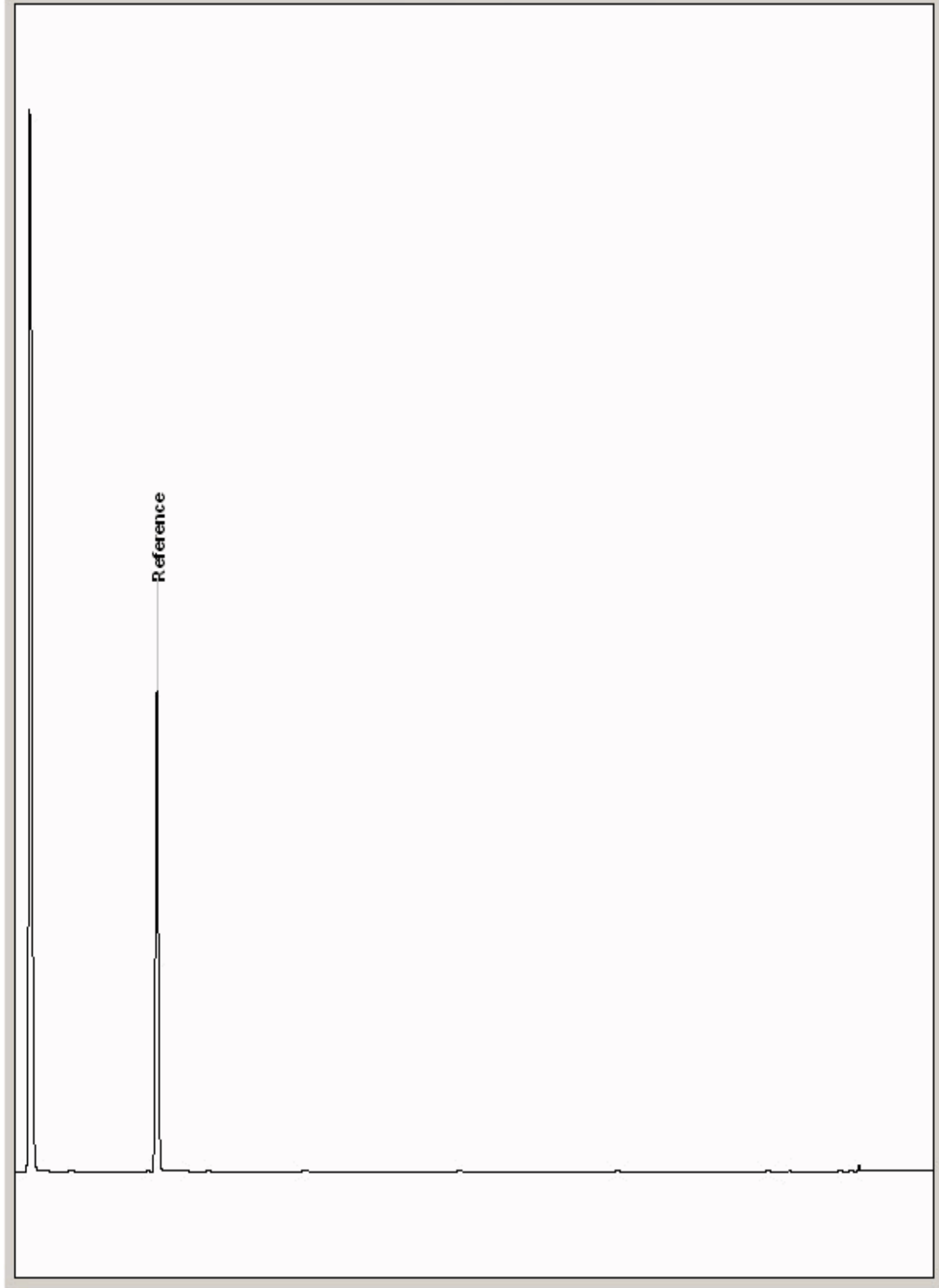
Chromatogram

Analysis: GRO by GC-FID (S)
19105824

Sample No : 19,105,824
Sample ID : BH214

Depth : 8.00 - 9.00

19105824_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

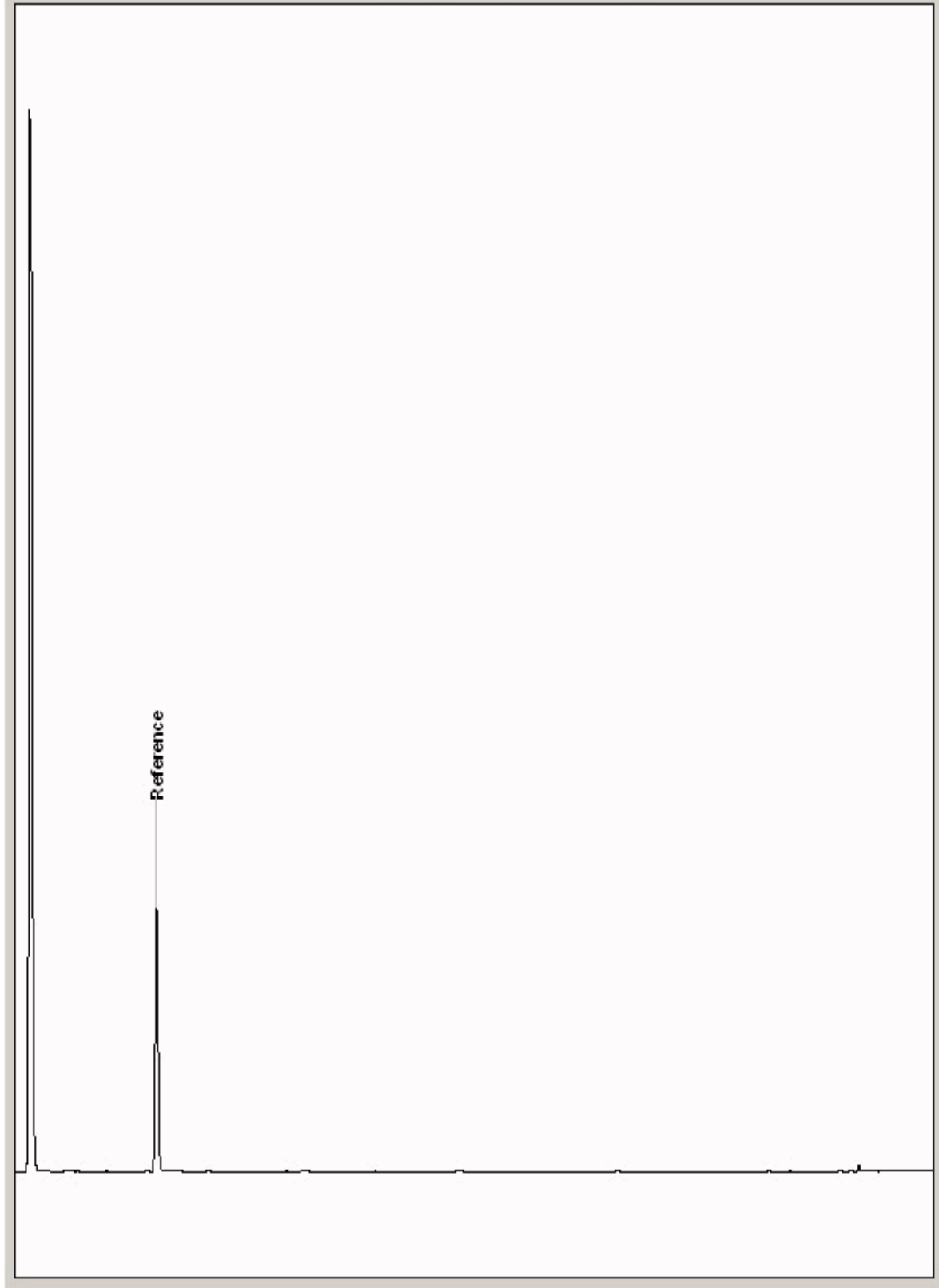
Chromatogram

Analysis: GRO by GC-FID (S)
19105836

Sample No :
Sample ID : BH216

19,105,836 **Depth :** 11.00 - 13.00

19105836_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

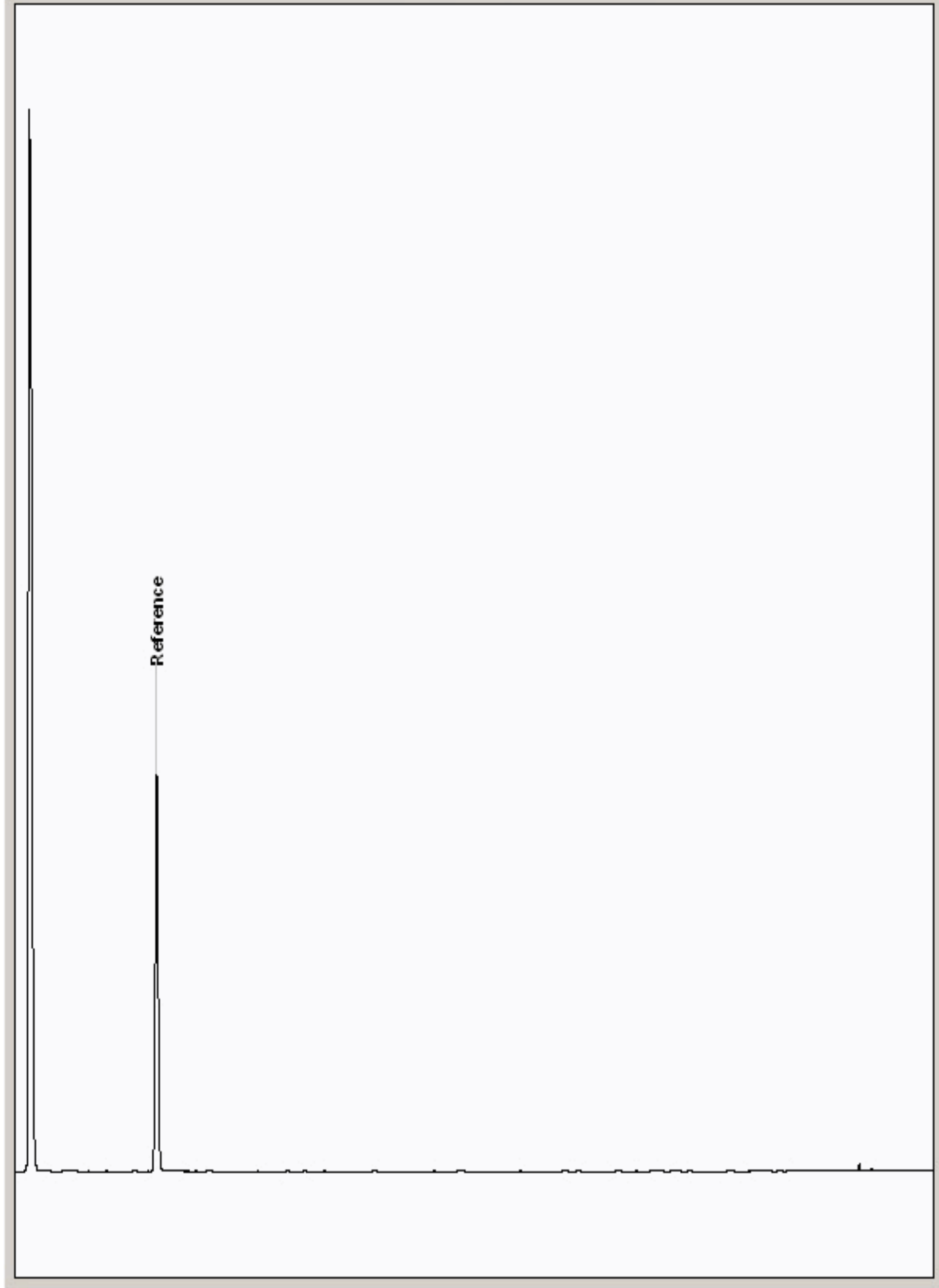
Chromatogram

Analysis: GRO by GC-FID (S)
19105852

Sample No :
Sample ID : BH215

19,105,852Depth :0.00 - 0.50

19105852_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

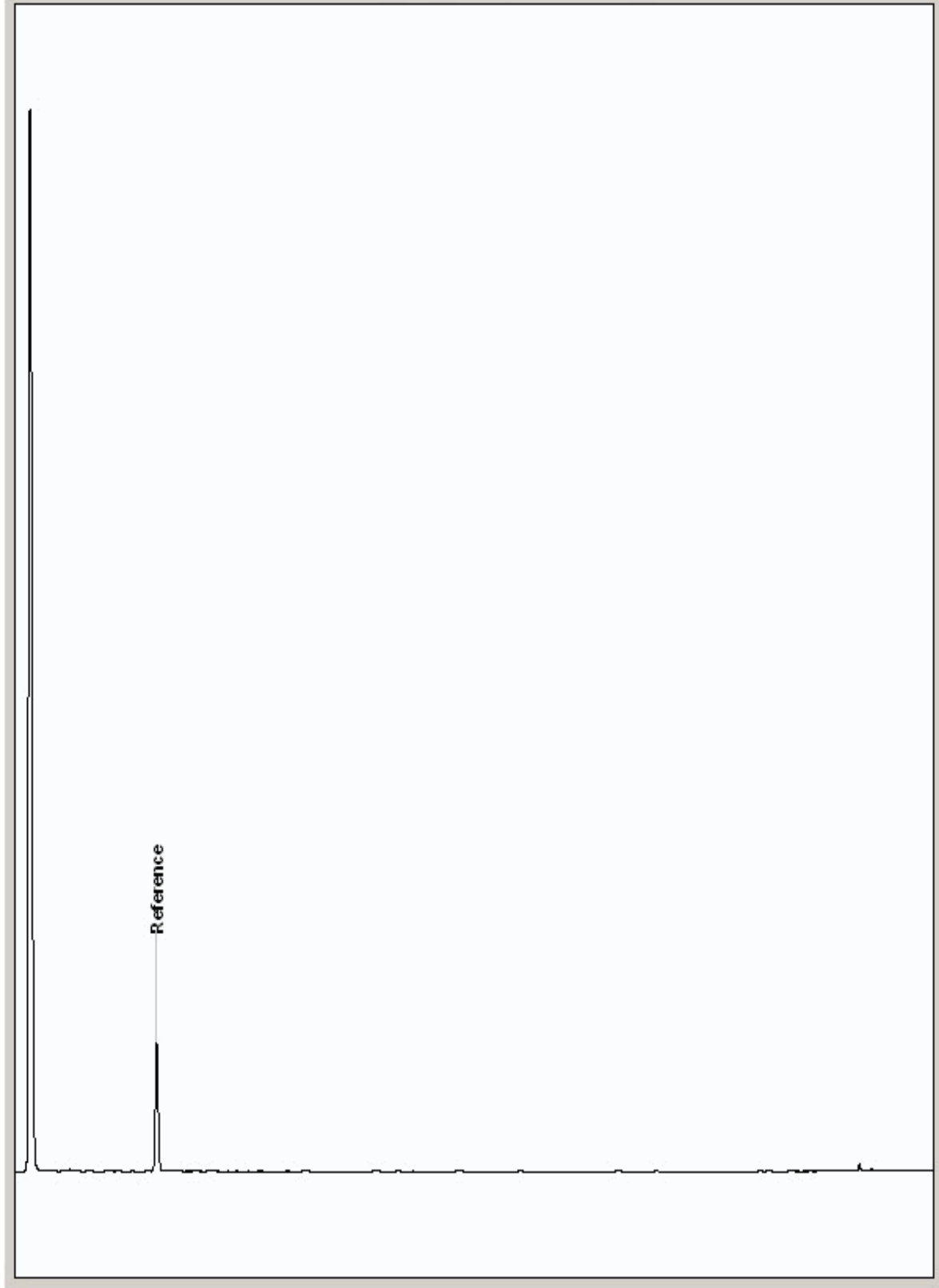
Chromatogram

Analysis: GRO by GC-FID (S)
19105860

Sample No :
Sample ID : BH216

19,105,860 **Depth :** 14.00 - 15.00

19105860_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

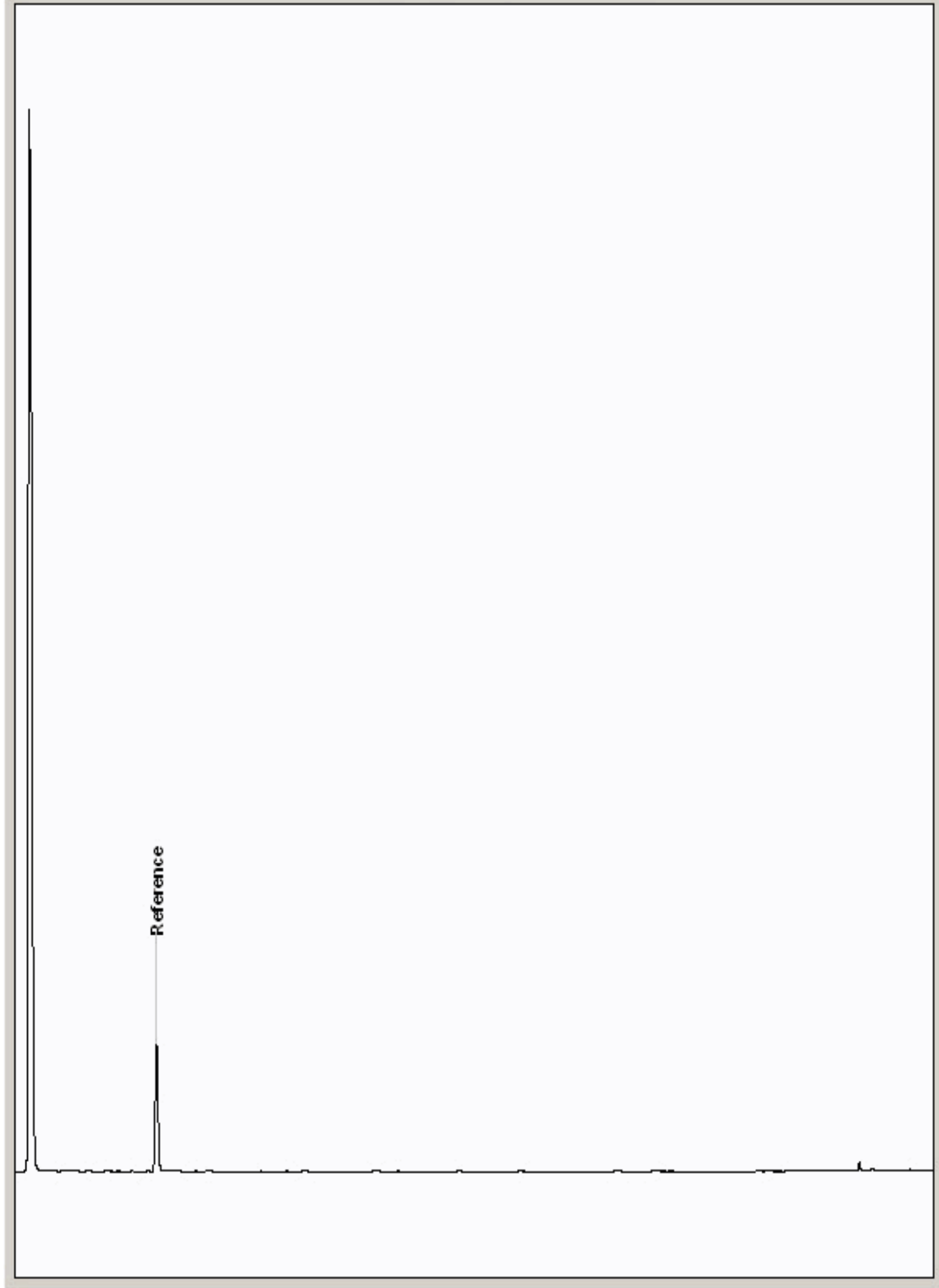
Chromatogram

Analysis: GRO by GC-FID (S)
19105898

Sample No :
Sample ID : BH214

19,105,898 **Depth :** 16.00 - 17.00

19105898_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

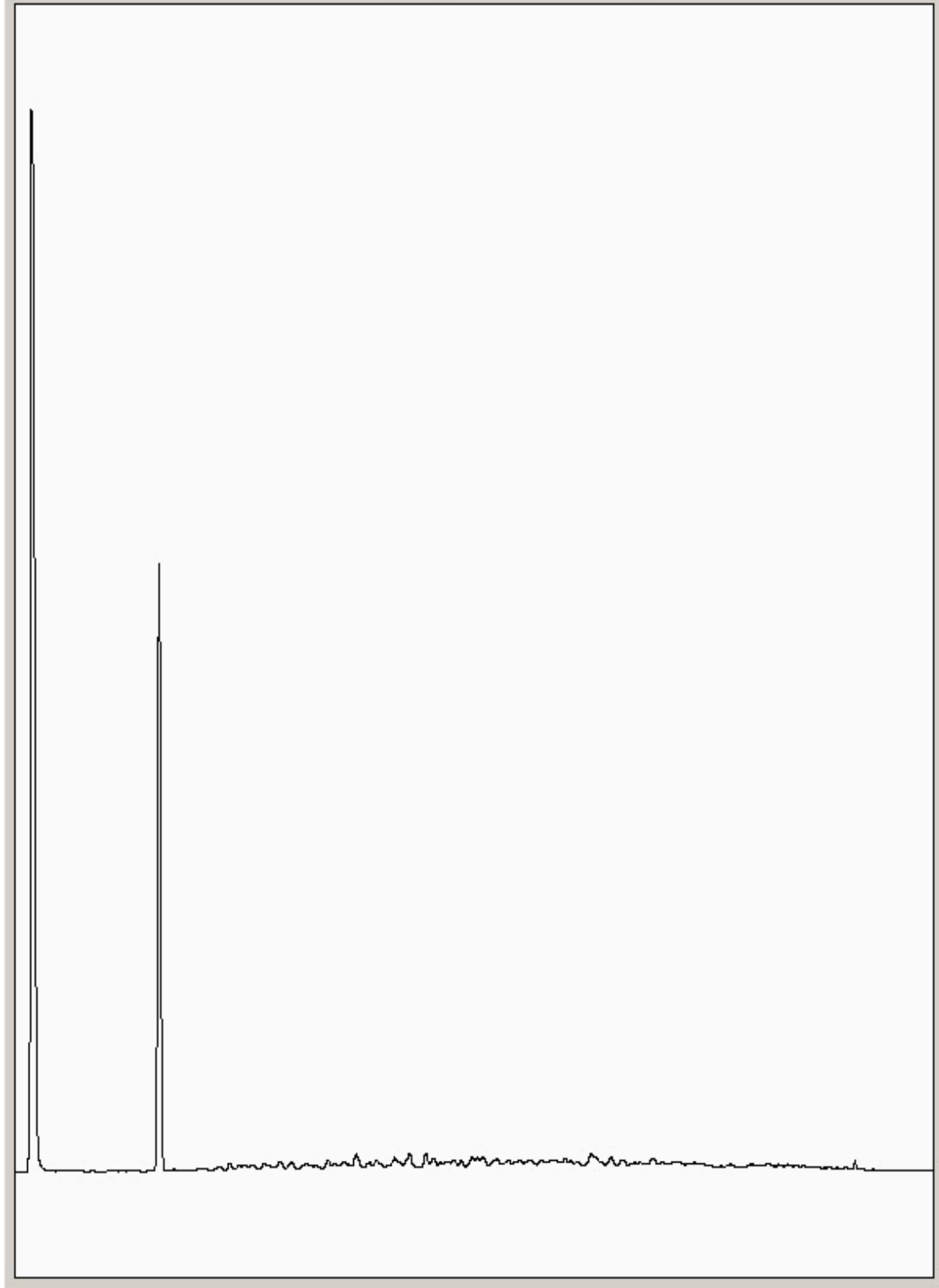
Chromatogram

Analysis: GRO by GC-FID (S)
19109114

Sample No :
Sample ID : BH217

19,109,114Depth :2.00 - 3.00

19109114_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

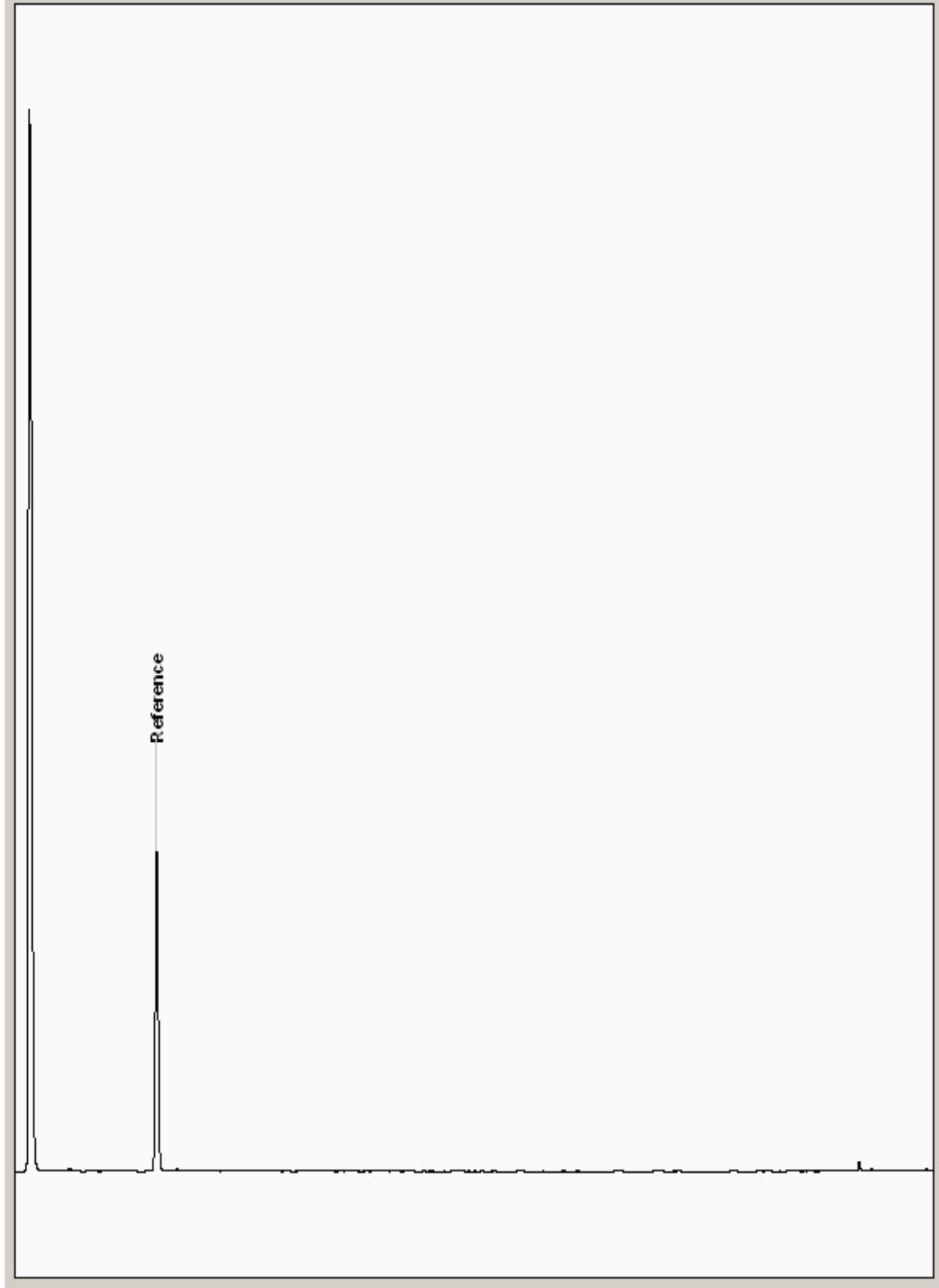
Chromatogram

Analysis: GRO by GC-FID (S)
19110819

Sample No :
Sample ID : BH214

19,110,819 **Depth :** 0.00 - 1.00

19110819_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

Analysis: GRO by GC-FID (S)
19118846

Sample No :
Sample ID : BH214

19,118,846**Depth :** 0.00 - 0.50

19118846_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

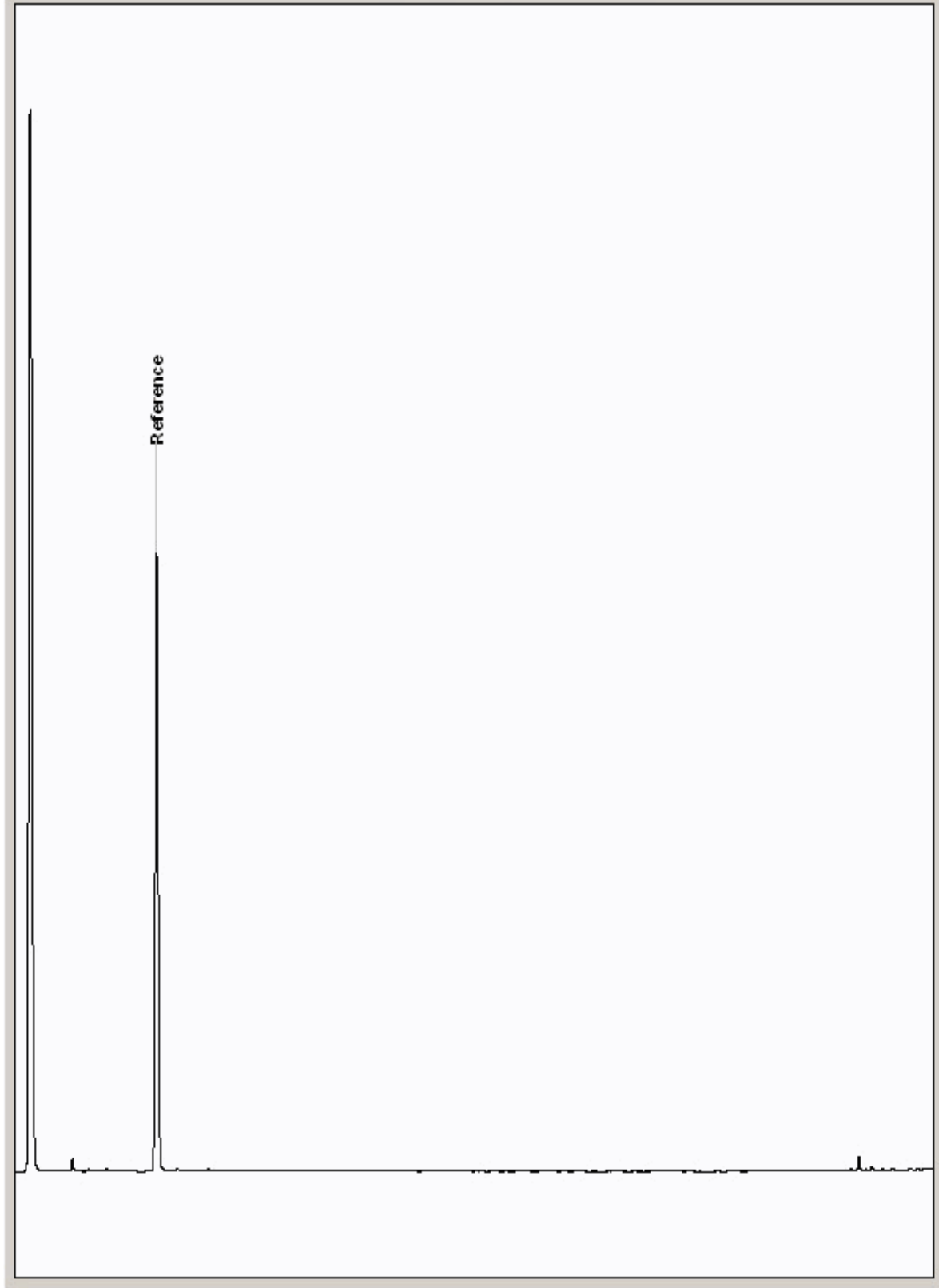
Chromatogram

Analysis: GRO by GC-FID (S)
19122984

Sample No :
Sample ID : BH214

19,122,984Depth :0.00 - 1.00

19122984_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
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Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Post Certification Report

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12
Attention: James Stretton

Date:	05/04/2019	Location:	City Block 9
Customer:	RSK Group Plc	No. Of Samples Received:	36
Your Reference:	602387	Samples Scheduled:	36

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19010982	BH211		0.50 - 1.00	17/12/2018
19010984	BH211		1.00 - 2.00	17/12/2018
19010993	BH211		10.50 - 12.00	17/12/2018
19010994	BH211		12.00 - 13.00	17/12/2018
19010995	BH211		13.00 - 14.00	17/12/2018
19010996	BH211		15.00 - 16.00	17/12/2018
19010985	BH211		2.00 - 3.00	17/12/2018
19010986	BH211		3.00 - 4.00	17/12/2018
19010988	BH211		4.50 - 6.00	17/12/2018
19010990	BH211		8.00 - 9.00	17/12/2018
19010992	BH211		9.00 - 10.00	17/12/2018
19010998	BH212		0.00 - 1.00	17/12/2018
19010999	BH212		1.00 - 2.00	17/12/2018
19011008	BH212		10.50 - 12.00	17/12/2018
19011011	BH212		13.00 - 14.00	17/12/2018
19011012	BH212		14.00 - 15.00	18/12/2018
19011014	BH212		15.00 - 16.00	18/12/2018
19011016	BH212		16.00 - 17.00	18/12/2018
19011000	BH212		2.00 - 3.00	17/12/2018
19011001	BH212		3.00 - 4.00	17/12/2018
19011003	BH212		4.50 - 6.00	17/12/2018
19011004	BH212		6.00 - 7.00	17/12/2018
19011005	BH212		7.00 - 8.00	17/12/2018
19011007	BH212		9.00 - 10.50	17/12/2018
19011018	BH213		0.00 - 0.50	18/12/2018
19011019	BH213		0.50 - 1.00	18/12/2018
19011020	BH213		1.00 - 2.00	18/12/2018
19011029	BH213		10.00 - 12.00	18/12/2018
19011030	BH213		12.50 - 14.00	18/12/2018
19011031	BH213		15.00 - 16.00	18/12/2018
19011033	BH213		16.00 - 17.00	18/12/2018
19011022	BH213		2.00 - 3.00	18/12/2018
19011023	BH213		3.00 - 4.00	18/12/2018
19011024	BH213		4.00 - 5.00	18/12/2018
19011025	BH213		5.00 - 6.00	18/12/2018
19011028	BH213		9.00 - 10.00	18/12/2018

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19011000	19011001	19011003	19011004	19011005	19011007	19011008	19011011	19011012	19011014	19011016	19011018	19011019	19011020
Customer Sample Reference	BH212	BH212	BH212	BH212	BH212	BH212	BH212	BH212	BH212	BH212	BH212	BH213	BH213	BH213
AGS Reference														
Depth (m)	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.50	10.50 - 12.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00
Container	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)	250g Amber Jar 1kg TUB 60g VOC (ALE215)

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	19011000	19011001	19011003	19011004	19011005	19011007	19011008	19011011	19011012	19011014	19011016	19011018	19011019	19011020
					250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar
PCBs by GCMS	All	NDPs: 0 Tests: 36			X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 36			X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 36			X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 36				X	X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 36			X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 36				X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 36			X	X	X	X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 36			X	X	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 36			X	X	X	X	X	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	19011020	19011022	19011023	19011024	19011025	19011028	19011029	19011030	19011031	19011033
Customer Sample Reference	BH213	BH213	BH213	BH213	BH213	BH213	BH213	BH213	BH213	BH213
AGS Reference										
Depth (m)	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	9.00 - 10.00	10.00 - 12.00	12.50 - 14.00	15.00 - 16.00	16.00 - 17.00
Container	60g VOC (ALE215) 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB	60g VOC (ALE215) 250g Amber Jar 1kg TUB

ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
CEN Readings	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Coronene	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Fluoride	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	PCBs by GCMS	pH	Phenols by HPLC (S)	Phenols by HPLC (W)	Sample description	Total Dissolved Solids	Total Organic Carbon	TPH CWG GC (S)	VOC MS (S)
19011020	BH213		1.00 - 2.00	60g VOC (ALE215) 1kg TUB	NDPs: 0 Tests: 36								
19011022	BH213		2.00 - 3.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X
19011023	BH213		3.00 - 4.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X
19011024	BH213		4.00 - 5.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X
19011025	BH213		5.00 - 6.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X
19011028	BH213		9.00 - 10.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X
19011029	BH213		10.00 - 12.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X
19011030	BH213		12.50 - 14.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X
19011031	BH213		15.00 - 16.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X
19011033	BH213		16.00 - 17.00	60g VOC (ALE215) 250g Amber Jar 1kg TUB	X	X	X	X	X	X	X	X	X



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH211	BH211	BH211	BH211	BH211	BH211
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.50 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010982	19010984	19010993	19010994	19010995	19010996
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	22	25	16	9.2	6.3	11
Loss on ignition	<0.7 %	TM018	4.86	3.52	<0.7	2.32	2.28	1.91
Mineral Oil Surrogate % recovery**	%	TM061	63.3	66.8	65.9	63.1	80.1	66.5
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	1.08	<1	<1	39.7	12.6
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.86	2.02	0.577	0.598	0.731	0.629
pH	1 pH Units	TM133	7.39	7.54	8.89	8.71	8.14	8.49
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	12.5	12.4	11.1	8.97	8.21	9.39
Cadmium	<0.02 mg/kg	TM181	0.825	0.624	1.67	2.3	1.53	3.99
Chromium	<0.9 mg/kg	TM181	13.8	15.5	7.79	9.1	5.65	6.42
Copper	<1.4 mg/kg	TM181	35.8	32.2	23.7	27.4	15.1	22.2
Lead	<0.7 mg/kg	TM181	65.9	69	14.6	15.1	9.72	12.5
Mercury	<0.14 mg/kg	TM181	0.472	0.268	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	22.3	23	36	27.9	22.8	27.5
Selenium	<1 mg/kg	TM181	<1	<1	2.4	1.88	2.1	3.26
Zinc	<1.9 mg/kg	TM181	79.1	74	81.6	69.6	113	230
ANC @ pH 4	<0.03 mol/kg	TM182	0.564	0.672	2.18	1.11	1.26	0.701
ANC @ pH 6	<0.03 mol/kg	TM182	0.0509	0.0592	0.273	0.308	0.142	0.0642
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH211	BH211	BH211	BH211	BH211	BH212
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	8.00 - 9.00	9.00 - 10.00	0.00 - 1.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010985	19010986	19010988	19010990	19010992	19010998
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	23	22	14	12	12	9.1
Loss on ignition	<0.7 %	TM018	4.74	6.41	8.62	0.741	<0.7	2.92
Mineral Oil Surrogate % recovery**	%	TM061	81.8	64.4	62.7	67.5	64.7	62.5
Mineral oil >C10-C40	<1 mg/kg	TM061	25.1	20.5	5.89	<1	<1	36.9
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	2.01	3.41	2.3	0.655	0.378	0.999
pH	1 pH Units	TM133	7.78	7.73	8.19	8.25	9.06	11.7
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	3.06
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	13.4	11.8	8.47	4.48	5.47	9.05
Cadmium	<0.02 mg/kg	TM181	0.729	0.623	0.333	0.3	0.588	0.836
Chromium	<0.9 mg/kg	TM181	12.2	12.4	6.69	6.21	5.11	12.8
Copper	<1.4 mg/kg	TM181	35.3	47.2	24.6	8.44	11.3	19.4
Lead	<0.7 mg/kg	TM181	70.3	101	43.1	13	10	38.8
Mercury	<0.14 mg/kg	TM181	0.374	0.644	0.263	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	21.6	20.9	12.4	10.8	12.5	21.1
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	1
Zinc	<1.9 mg/kg	TM181	74.8	69.6	44.9	33.3	44.6	170
ANC @ pH 4	<0.03 mol/kg	TM182	0.386	0.265	0.11	0.328	0.274	0.294
ANC @ pH 6	<0.03 mol/kg	TM182	0.0509	0.0585	0.0331	0.0875	0.0782	0.122
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH212	BH212	BH212	BH212	BH212	BH212
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	10.50 - 12.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010999	19011008	19011011	19011012	19011014	19011016
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	14	13	9.8	11	11	10
Loss on ignition	<0.7 %	TM018	2.71	<0.7	2.6	1.56	2.51	2.15
Mineral Oil Surrogate % recovery**	%	TM061	60.8	74.8	65.8	70.9	68.5	74
Mineral oil >C10-C40	<1 mg/kg	TM061	82.9 @	<1 @	<1 @	<1 @	22.9 @	55.4 @
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06 @	<0.06 @	<0.06 @	<0.06 @	<0.06 @	<0.06 @
Organic Carbon, Total	<0.2 %	TM132	0.803	0.279	0.5	0.529	1.1	0.771
pH	1 pH Units	TM133	8.41	9.23	8.66	8.81	8.17	8.09
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	9.54	3.88	7.53	8.38	9.53	10.4
Cadmium	<0.02 mg/kg	TM181	0.879	0.727	0.944	1.23	1.55	1.61
Chromium	<0.9 mg/kg	TM181	10.4	6.08	6.5	5.76	6.97	7.94
Copper	<1.4 mg/kg	TM181	20.4	9	13.8	20	24.1	26.5
Lead	<0.7 mg/kg	TM181	28.2	7.59	8.85	10.7	13.4	14.8
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	19.6	14.5	21.2	28.8	32.6	36.2
Selenium	<1 mg/kg	TM181	<1	<1	1.23	2.29	3.07	3.24
Zinc	<1.9 mg/kg	TM181	63.8	44.2	44.9	62.1	68.4	75.5
ANC @ pH 4	<0.03 mol/kg	TM182	0.256	0.0821	0.375	1.3	1.35	2.15
ANC @ pH 6	<0.03 mol/kg	TM182	0.0533	0.05	0.117	0.206	0.167	0.151
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH212	BH212	BH212	BH212	BH212	BH212
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.50
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19011000	19011001	19011003	19011004	19011005	19011007
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	28	27	18	11	8.6	11
Loss on ignition	<0.7 %	TM018	8.53	4.91	2.73	2.34	1.06	1.18
Mineral Oil Surrogate % recovery**	%	TM061	63.1	70.2	72.8	66.7	70.2	68.8
Mineral oil >C10-C40	<1 mg/kg	TM061	68.2 @	19.8 @	<1 @	11.2 @	1.52 @	<1 @
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @
Cresols	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @	<0.01 @
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @	<0.015 @
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06 @	<0.06 @	<0.06 @	<0.06 @	<0.06 @	<0.06 @
Organic Carbon, Total	<0.2 %	TM132	2.42	2.37	1.88	0.431	0.402	0.345
pH	1 pH Units	TM133	7.5	7.93	7.75	8.1	8.54	9.39
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	10.4	8.61	6.93	6.53	5.16	4.55
Cadmium	<0.02 mg/kg	TM181	0.569	0.44	0.287	0.207	0.516	0.646
Chromium	<0.9 mg/kg	TM181	15.9	15.8	6.76	6.25	5.68	5.29
Copper	<1.4 mg/kg	TM181	41.4	31.1	17.5	5.48	7.8	8.45
Lead	<0.7 mg/kg	TM181	80.1	61.3	42.9	11.7	8.02	6.81
Mercury	<0.14 mg/kg	TM181	0.526	0.416	0.197	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	21.8	19.1	12.5	7.96	11.5	13.8
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	76.2	61.4	40.3	26.6	33	38.6
ANC @ pH 4	<0.03 mol/kg	TM182	0.614	0.598	0.155	0.0882	1.18	1.02
ANC @ pH 6	<0.03 mol/kg	TM182	0.0945	0.0659	0.0534	0.0479	0.18	0.176
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	<10	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH213	BH213	BH213	BH213	BH213	BH213
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 12.00	12.50 - 14.00	15.00 - 16.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19011018	19011019	19011020	19011029	19011030	19011031
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	10	18	21	15	10	5.5
Loss on ignition	<0.7 %	TM018	5.37	5.25	4.65	1.61	1.05	0.966
Mineral Oil Surrogate % recovery**	%	TM061	81.3	60.1	78.7	76.4	60	73
Mineral oil >C10-C40	<1 mg/kg	TM061	31.1	6.73	1.19	<1	<1	13.2
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	0.0252	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	0.0252	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.02	2.15	3.46	0.452	1.1	0.665
pH	1 pH Units	TM133	8.23	7.5	7.44	8.68	8.25	8.49
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	4.46	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	16.5	11.7	10.9	10.2	8.9	7.9
Cadmium	<0.02 mg/kg	TM181	0.985	0.715	0.861	1.6	1.67	1.57
Chromium	<0.9 mg/kg	TM181	10.1	12.7	10	6.94	6.57	5.22
Copper	<1.4 mg/kg	TM181	75.6	34.6	30.6	22.8	20	22.2
Lead	<0.7 mg/kg	TM181	80.5	72.8	59.4	13.6	12	11.6
Mercury	<0.14 mg/kg	TM181	<0.14	0.446	0.348	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	26.1	20.4	19.4	30.5	27.8	27.1
Selenium	<1 mg/kg	TM181	<1	<1	<1	1.71	2.93	2.41
Zinc	<1.9 mg/kg	TM181	235	86.6	73.6	75.8	68.6	63.6
ANC @ pH 4	<0.03 mol/kg	TM182	0.321	0.311	0.279	2.67	1.3	1.26
ANC @ pH 6	<0.03 mol/kg	TM182	0.0707	0.046	0.0453	0.673	0.262	0.222
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	29.4	23.5	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH213	BH213	BH213	BH213	BH213	BH213
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	9.00 - 10.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19011033	19011022	19011023	19011024	19011025	19011028
		AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	5	26	27	19	14	13
Loss on ignition	<0.7 %	TM018	0.797	5.59	6.62	7	1.43	2.12
Mineral Oil Surrogate % recovery**	%	TM061	66.8	67.9	68.6	60.1	62.9	73.5
Mineral oil >C10-C40	<1 mg/kg	TM061	6.85	49.1	69.5	22.9	16.9	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.92	2.24	2.22	3.46	1.58	0.649
pH	1 pH Units	TM133	8.49	7.5	7.64	7.64	7.44	8.23
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.49	11.9	12.4	12.5	9.6	5.83
Cadmium	<0.02 mg/kg	TM181	1.9	0.766	0.784	0.629	0.621	0.888
Chromium	<0.9 mg/kg	TM181	4.89	10.4	14.9	14.9	9.09	5.72
Copper	<1.4 mg/kg	TM181	16.7	35.5	44.2	43.8	19.3	11.4
Lead	<0.7 mg/kg	TM181	10.5	71.5	85.4	92.7	41.9	14
Mercury	<0.14 mg/kg	TM181	<0.14	0.447	0.491	0.629	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	24.5	20.3	22.8	22.8	14.2	16.7
Selenium	<1 mg/kg	TM181	2.95	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	61.5	85.8	91.7	99.9	51.9	50
ANC @ pH 4	<0.03 mol/kg	TM182	0.75	0.331	0.4	0.406	0.272	0.734
ANC @ pH 6	<0.03 mol/kg	TM182	0.171	0.0622	0.0534	0.0472	0.0674	0.131
PAH Total 17 (inc Coronene)	<10 mg/kg	TM410	<10	<10	18.6	<10	<10	<10
Moisture Corrected Coronene	<200 µg/kg	TM410	<200	<200	<200	<200	<200	<200



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH211	BH211	BH211	BH211	BH211	BH211
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / filtered sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.50 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010982	19010984	19010993	19010994	19010995	19010996
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	101	100	80	100	94.8	92.4
Acenaphthene-d10 % recovery**	%	TM218	98.3	97.7	76.4	99.3	94.4	94.7
Phenanthrene-d10 % recovery**	%	TM218	95	97.7	77.1	91.3	90.7	98.9
Chrysene-d12 % recovery**	%	TM218	92.2	97.6	83	91.3	83.9	107
Perylene-d12 % recovery**	%	TM218	94.1	97.1	72.5	89.3	74.1	111
Naphthalene	<9 µg/kg	TM218	16	40.4	<9	<9	14.4	<9
Acenaphthylene	<12 µg/kg	TM218	<12	18.9	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	13.9	42.7	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	21.8	69.7	<10	<10	22.1	<10
Phenanthrene	<15 µg/kg	TM218	80.3	264	<15	<15	60.1	<15
Anthracene	<16 µg/kg	TM218	75.4	180	<16	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218	246	598	<17	<17	<17	<17
Pyrene	<15 µg/kg	TM218	185	430	<15	<15	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218	134	340	<14	<14	23	<14
Chrysene	<10 µg/kg	TM218	106	269	<10	<10	12.7	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	108	268	<15	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	44	99.3	<14	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	91	231	<15	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	37.3	85.8	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	32.6	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	44	101	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1200	3070	<118	<118	132	<118



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH211	BH211	BH211	BH211	BH211	BH212
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / filtered sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	8.00 - 9.00	9.00 - 10.00	0.00 - 1.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010985	19010986	19010988	19010990	19010992	19010998
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	91.4	76.6	83.7	87	77.6	78
Acenaphthene-d10 % recovery**	%	TM218	96.8	74.7	79.7	82.1	74.9	73
Phenanthrene-d10 % recovery**	%	TM218	103	80	81.6	81.3	77.9	72.5
Chrysene-d12 % recovery**	%	TM218	106	80.5	84.6	87.7	73	82.2
Perylene-d12 % recovery**	%	TM218	87.3	84.2	72	80	70.3	73.3
Naphthalene	<9 µg/kg	TM218	72.7	90.1	39.3	<9	<9	20.6
			@	@	@	@	@	@
Acenaphthylene	<12 µg/kg	TM218	32.9	34.3	<12	<12	<12	<12
			@	@	@	@	@	@
Acenaphthene	<8 µg/kg	TM218	67.3	50.6	18.6	<8	<8	<8
			@	@	@	@	@	@
Fluorene	<10 µg/kg	TM218	156	119	44.1	<10	<10	12.4
			@	@	@	@	@	@
Phenanthrene	<15 µg/kg	TM218	636	426	171	26.9	<15	64
			@	@	@	@	@	@
Anthracene	<16 µg/kg	TM218	306	212	70.7	<16	<16	21.3
			@	@	@	@	@	@
Fluoranthene	<17 µg/kg	TM218	983	609	198	33.8	<17	82.2
			@	@	@	@	@	@
Pyrene	<15 µg/kg	TM218	748	458	154	26.7	<15	63.1
			@	@	@	@	@	@
Benz(a)anthracene	<14 µg/kg	TM218	554	382	122	21.7	<14	53.1
			@	@	@	@	@	@
Chrysene	<10 µg/kg	TM218	372	337	103	17.1	<10	47.8
			@	@	@	@	@	@
Benzo(b)fluoranthene	<15 µg/kg	TM218	290	387	109	<15	<15	65.6
			@	@	@	@	@	@
Benzo(k)fluoranthene	<14 µg/kg	TM218	155	151	45.4	<14	<14	24.4
			@	@	@	@	@	@
Benzo(a)pyrene	<15 µg/kg	TM218	292	253	74.6	<15	<15	45.4
			@	@	@	@	@	@
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	101	111	43.2	<18	<18	37.3
			@	@	@	@	@	@
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	45.6	42.1	<23	<23	<23	<23
			@	@	@	@	@	@
Benzo(g,h,i)perylene	<24 µg/kg	TM218	112	140	32.6	<24	<24	28.1
			@	@	@	@	@	@
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4920	3800	1220	126	<118	565



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH212	BH212	BH212	BH212	BH212	BH212
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	1.00 - 2.00	10.50 - 12.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010999	19011008	19011011	19011012	19011014	19011016
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	81.4	102	80.6	84.5	101	93.5
Acenaphthene-d10 % recovery**	%	TM218	81	97.9	79.4	79.1	99.5	93
Phenanthrene-d10 % recovery**	%	TM218	82.1	91.2	76.3	76.2	92.2	92.2
Chrysene-d12 % recovery**	%	TM218	74	91.6	73.4	78.7	89.9	91.9
Perylene-d12 % recovery**	%	TM218	71.3	92.8	66.7	67.7	85.2	85.1
Naphthalene	<9 µg/kg	TM218	40.2	<9	<9	<9	<9	19.3
Acenaphthylene	<12 µg/kg	TM218	<12	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	31.4	<8	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	61.7	<10	<10	<10	<10	28.6
Phenanthrene	<15 µg/kg	TM218	102	<15	<15	<15	40.2	74
Anthracene	<16 µg/kg	TM218	46.7	<16	<16	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218	409	<17	<17	<17	<17	<17
Pyrene	<15 µg/kg	TM218	378	<15	<15	<15	<15	21.4
Benz(a)anthracene	<14 µg/kg	TM218	177	<14	<14	<14	<14	<14
Chrysene	<10 µg/kg	TM218	172	<10	<10	<10	13.9	19
Benzo(b)fluoranthene	<15 µg/kg	TM218	205	<15	<15	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	76.9	<14	<14	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	126	<15	<15	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	59.9	<18	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	62.3	<24	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1950	<118	<118	<118	<118	162



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH212	BH212	BH212	BH212	BH212	BH212
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / filtered sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.50
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19011000	19011001	19011003	19011004	19011005	19011007
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	74.6	100	95.2	79.4	86.6	85.3
Acenaphthene-d10 % recovery**	%	TM218	77.1	98.6	90.7	77.6	83.8	78.6
Phenanthrene-d10 % recovery**	%	TM218	79.4	95	85.7	81.1	85.7	76.1
Chrysene-d12 % recovery**	%	TM218	78.2	94.6	83.9	97.2	94.5	84.5
Perylene-d12 % recovery**	%	TM218	81.3	95.2	85.4	80.7	79.6	77.2
Naphthalene	<9 µg/kg	TM218	333	22	43.7	<9	<9	<9
Acenaphthylene	<12 µg/kg	TM218	51.9	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	128	15.5	15.7	<8	<8	<8
Fluorene	<10 µg/kg	TM218	268	25.1	34	<10	<10	<10
Phenanthrene	<15 µg/kg	TM218	620	96.8	148	21.1	18.7	<15
Anthracene	<16 µg/kg	TM218	312	37.7	60.9	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218	959	135	197	25.2	<17	<17
Pyrene	<15 µg/kg	TM218	825	93.3	144	22.4	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218	588	62.3	102	18.6	<14	<14
Chrysene	<10 µg/kg	TM218	528	54.8	82	16.3	12.1	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	641	48.2	68.7	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	262	23.9	31.2	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	501	44.3	74.2	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	202	<18	29.8	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	72.5	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	204	<24	41.2	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	6490	659	1070	<118	<118	<118



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH213	BH213	BH213	BH213	BH213	BH213
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / filtered sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 12.00	12.50 - 14.00	15.00 - 16.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19011018	19011019	19011020	19011029	19011030	19011031
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	92.8	80.1	71.8	101	100	101
Acenaphthene-d10 % recovery**	%	TM218	96.1	77.4	73.5	100	100	102
Phenanthrene-d10 % recovery**	%	TM218	98.5	79.4	76.7	92.6	91.1	92.8
Chrysene-d12 % recovery**	%	TM218	96.9	92.4	83.5	92.4	90	89.7
Perylene-d12 % recovery**	%	TM218	77.5	82.4	76.4	93.7	87.6	84
Naphthalene	<9 µg/kg	TM218	35.3	188	995	<9	<9	<9
			@	@	@	@	@	@
Acenaphthylene	<12 µg/kg	TM218	17.9	406	349	<12	<12	<12
			@	@	@	@	@	@
Acenaphthene	<8 µg/kg	TM218	24.7	74.3	253	<8	<8	<8
			@	@	@	@	@	@
Fluorene	<10 µg/kg	TM218	35.7	356	766	<10	<10	<10
			@	@	@	@	@	@
Phenanthrene	<15 µg/kg	TM218	268	2170	3240	<15	21.2	35.6
			@	@	@	@	@	@
Anthracene	<16 µg/kg	TM218	54.7	1360	1320	<16	<16	<16
			@	@	@	@	@	@
Fluoranthene	<17 µg/kg	TM218	369	4260	3660	<17	<17	<17
			@	@	@	@	@	@
Pyrene	<15 µg/kg	TM218	342	3320	3120	<15	<15	<15
			@	@	@	@	@	@
Benz(a)anthracene	<14 µg/kg	TM218	185	3040	2310	<14	<14	<14
			@	@	@	@	@	@
Chrysene	<10 µg/kg	TM218	169	2770	1960	<10	15.7	10.8
			@	@	@	@	@	@
Benzo(b)fluoranthene	<15 µg/kg	TM218	168	3760	1470	<15	<15	<15
			@	@	@	@	@	@
Benzo(k)fluoranthene	<14 µg/kg	TM218	67.4	1710	724	<14	<14	<14
			@	@	@	@	@	@
Benzo(a)pyrene	<15 µg/kg	TM218	146	2620	1600	<15	<15	<15
			@	@	@	@	@	@
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	68.7	1730	694	<18	<18	<18
			@	@	@	@	@	@
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	450	274	<23	<23	<23
			@	@	@	@	@	@
Benzo(g,h,i)perylene	<24 µg/kg	TM218	98.1	1170	739	<24	<24	<24
			@	@	@	@	@	@
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2050	29400	23500	<118	<118	<118



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH213	BH213	BH213	BH213	BH213	BH213
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	9.00 - 10.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19011033	19011022	19011023	19011024	19011025	19011028
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	77.5	82	91.4	73.8	77.7	99.8
Acenaphthene-d10 % recovery**	%	TM218	78.7	83.7	84.1	74.6	71.9	95.1
Phenanthrene-d10 % recovery**	%	TM218	77.5	88.2	81.7	76.3	73.5	90.1
Chrysene-d12 % recovery**	%	TM218	71.1	97.3	89	81.9	84.8	89.8
Perylene-d12 % recovery**	%	TM218	67.3	82	98.6	73.9	72.3	92.1
Naphthalene	<9 µg/kg	TM218	<9	429	636	324	137	104
			@	@	@	@	@	@
Acenaphthylene	<12 µg/kg	TM218	<12	93.5	190	96.1	30.9	17.3
			@	@	@	@	@	@
Acenaphthene	<8 µg/kg	TM218	<8	110	198	72.6	30	27.2
			@	@	@	@	@	@
Fluorene	<10 µg/kg	TM218	<10	283	541	162	92.8	67.7
			@	@	@	@	@	@
Phenanthrene	<15 µg/kg	TM218	17.4	1140	2710	728	370	270
			@	@	@	@	@	@
Anthracene	<16 µg/kg	TM218	<16	471	1210	299	151	135
			@	@	@	@	@	@
Fluoranthene	<17 µg/kg	TM218	<17	1410	3180	940	443	292
			@	@	@	@	@	@
Pyrene	<15 µg/kg	TM218	<15	1150	2490	831	350	223
			@	@	@	@	@	@
Benz(a)anthracene	<14 µg/kg	TM218	<14	923	1580	648	291	141
			@	@	@	@	@	@
Chrysene	<10 µg/kg	TM218	<10	824	1310	527	229	117
			@	@	@	@	@	@
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	886	1100	554	285	107
			@	@	@	@	@	@
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	315	703	258	104	48.1
			@	@	@	@	@	@
Benzo(a)pyrene	<15 µg/kg	TM218	<15	584	1340	591	201	96
			@	@	@	@	@	@
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	235	516	296	120	39.1
			@	@	@	@	@	@
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	58.6	208	106	<23	<23
			@	@	@	@	@	@
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	248	646	350	83.4	46.4
			@	@	@	@	@	@
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	9160	18600	6780	2920	1730



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH211	BH211	BH211	BH211	BH211	BH211
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.50 - 1.00	1.00 - 2.00	10.50 - 12.00	12.00 - 13.00	13.00 - 14.00	15.00 - 16.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010982	19010984	19010993	19010994	19010995	19010996
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	82.3	129	109	31.3	10.2	14.5
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @	233 @	<100 @	<100 @	<100 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	10.6 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	27.9 @	<10 @	<10 @	<10 @	12.3 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	62.5 @	19 @	<10 @	<10 @	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	53.2 @	<10 @	<10 @	<10 @	13.4 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	<100	236	3160	1740
Aliphatics >C16-C21	<100 µg/kg	TM173	1390	5830	<100	484	2830	2010
Aliphatics >C21-C35	<100 µg/kg	TM173	3710	14900	<100	6970	13900	26200
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	2390	6610	15400
Total Aliphatics >C12-C44	<100 µg/kg	TM173	5110	20700	<100	10100	26500	45400
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	41.2 @	13.1 @	<10 @	<10 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	35.9 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	1670	3020	<100	<100	388	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	9360	30800	<100	937	<100	1300
Aromatics >EC21-EC35	<100 µg/kg	TM173	34200	80300	<100	4130	<100	8670
Aromatics >EC35-EC44	<100 µg/kg	TM173	5090	15400	<100	128	<100	4640
Aromatics >EC40-EC44	<100 µg/kg	TM173	826	3780	<100	<100	<100	1810
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	50300	129000	<100	5190	388	14600
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	55400	150000	<100	15300	26900	60000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH211	BH211	BH211	BH211	BH211	BH212
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	8.00 - 9.00	9.00 - 10.00	0.00 - 1.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010985	19010986	19010988	19010990	19010992	19010998
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	112	86	86	129	84.5	86.5
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	706 @	255 @	<100 @	279 @	<100 @	117 @
Aliphatics >C5-C6	<10 µg/kg	TM089	16.9 @	14.1 @	<10 @	12.5 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	58.5 @	42.2 @	<10 @	38.8 @	<10 @	19.8 @
Aliphatics >C8-C10	<10 µg/kg	TM089	118 @	47.4 @	<10 @	77.5 @	<10 @	33 @
Aliphatics >C10-C12	<10 µg/kg	TM089	257 @	70.4 @	<10 @	57 @	<10 @	19.8 @
Aliphatics >C12-C16	<100 µg/kg	TM173	1640	1000	694	<100	171	840
Aliphatics >C16-C21	<100 µg/kg	TM173	6240	3360	3320	515	352	12600
Aliphatics >C21-C35	<100 µg/kg	TM173	86400	24800	55500	11700	7380	99400
Aliphatics >C35-C44	<100 µg/kg	TM173	44900	9500	29200	6860	4500	33800
Total Aliphatics >C12-C44	<100 µg/kg	TM173	139000	38700	88700	19100	12400	147000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	79.3 @	32 @	<10 @	51.3 @	<10 @	22 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	172 @	47.4 @	<10 @	37.6 @	<10 @	13.2 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	4530	4830	1120	193	211	1440
Aromatics >EC16-EC21	<100 µg/kg	TM173	25100	25500	10300	635	<100	6560
Aromatics >EC21-EC35	<100 µg/kg	TM173	90000	83000	51300	8180	4220	32700
Aromatics >EC35-EC44	<100 µg/kg	TM173	27500	22000	16500	4020	1430	15000
Aromatics >EC40-EC44	<100 µg/kg	TM173	9310	7310	4810	1680	<100	5680
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	147000	135000	79200	13000	5860	55800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	287000	174000	168000	32400	18300	202000



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH212	BH212	BH212	BH212	BH212	BH212	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00 - 2.00	10.50 - 12.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	
M	mCERTS accredited.		Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	
aq	Aqueous / settled sample.		17/12/2018	17/12/2018	17/12/2018	18/12/2018	18/12/2018	18/12/2018	
diss.filt	Dissolved / filtered sample.		19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	
tot.unfilt	Total / unfiltered sample.		181220-73	181220-73	181220-73	181220-73	181220-73	181220-73	
*	Subcontracted - refer to subcontractor report for accreditation status.		19010999	19011008	19011011	19011012	19011014	19011016	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-3*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
GRO Surrogate % recovery**	%		TM089	104	94.8	55.2	33	19.3	23.8
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	4680	<100	<100	<100	<100	<100	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
Aliphatics >C6-C8	<10 µg/kg	TM089	83.5	<10	<10	11.3	<10	<10	
Aliphatics >C8-C10	<10 µg/kg	TM089	730	<10	<10	13.6	<10	<10	
Aliphatics >C10-C12	<10 µg/kg	TM089	2020	<10	<10	<10	<10	<10	
Aliphatics >C12-C16	<100 µg/kg	TM173	35900	<100	759	<100	2230	2630	
Aliphatics >C16-C21	<100 µg/kg	TM173	87000	<100	580	<100	2980	4490	
Aliphatics >C21-C35	<100 µg/kg	TM173	114000	<100	3570	<100	10700	29200	
Aliphatics >C35-C44	<100 µg/kg	TM173	39600	<100	970	<100	3620	11000	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	277000	<100	5880	<100	19500	47300	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	486	<10	<10	<10	<10	<10	
Aromatics >EC10-EC12	<10 µg/kg	TM089	1350	<10	<10	<10	<10	<10	
Aromatics >EC12-EC16	<100 µg/kg	TM173	5690	<100	370	<100	1530	1790	
Aromatics >EC16-EC21	<100 µg/kg	TM173	34700	<100	397	<100	2220	2860	
Aromatics >EC21-EC35	<100 µg/kg	TM173	74000	1140	1640	<100	5760	10700	
Aromatics >EC35-EC44	<100 µg/kg	TM173	19300	<100	<100	<100	1060	3940	
Aromatics >EC40-EC44	<100 µg/kg	TM173	6730	<100	<100	<100	<100	1480	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	134000	1140	2410	<100	10600	19300	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	415000	1140	8290	<100	30100	66500	



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH212	BH212	BH212	BH212	BH212	BH212
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.50
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19011000	19011001	19011003	19011004	19011005	19011007
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	92.4	86.4	93	92.9	92	99.2
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	2120 @	358 @	142 @	<100 @	<100 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	17.9 @	12.3 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	82.8 @	38.4 @	19.5 @	<10 @	<10 @	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089	397 @	84.9 @	25.6 @	<10 @	<10 @	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	811 @	100 @	41.5 @	<10 @	<10 @	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173	13500	1460	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	35200	6210	<100	2320	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	32400	9790	5070	64700	10200	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	4870	769	<100	41000	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	85900	18200	5070	108000	10200	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	265 @	56.2 @	17.1 @	<10 @	<10 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	541 @	65.8 @	28.1 @	<10 @	<10 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	6950	1850	1080	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	36000	33700	5730	1860	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	91500	51500	19400	19400	4230	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	17500	15300	3970	9410	2410	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	4150	4930	<100	3490	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	152000	102000	30200	30700	6640	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	240000	121000	35400	139000	16900	<100



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH213	BH213	BH213	BH213	BH213	BH213
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	10.00 - 12.00	12.50 - 14.00	15.00 - 16.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19011018	19011019	19011020	19011029	19011030	19011031
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	56.1	73.7	100	112	24.8	21.1
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	304 @	<100 @	1810 @	<100 @	<100 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	15.1 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	28.9 @	<10 @	73.1 @	<10 @	<10 @	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089	67.7 @	<10 @	367 @	<10 @	<10 @	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	89.9 @	<10 @	660 @	<10 @	<10 @	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173	7560	3080	2690	267	2290	2040
Aliphatics >C16-C21	<100 µg/kg	TM173	30300	5220	10900	<100	1480	1600
Aliphatics >C21-C35	<100 µg/kg	TM173	41500	14200	13800	7520	5770	2830
Aliphatics >C35-C44	<100 µg/kg	TM173	7920	3930	866	4570	784	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	87200	26500	28300	12400	10300	6470
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	45.5 @	<10 @	244 @	<10 @	<10 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	59.9 @	<10 @	441 @	<10 @	<10 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	2060	8820	27500	<100	667	381
Aromatics >EC16-EC21	<100 µg/kg	TM173	10500	64600	139000	<100	801	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	34000	211000	269000	1700	1040	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	11800	51000	44700	969	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	3480	13600	13900	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	58400	336000	480000	2670	2510	381
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	146000	362000	510000	15000	12800	6850



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH213	BH213	BH213	BH213	BH213	BH213
#	ISO17025 accredited.	Depth (m)	16.00 - 17.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	9.00 - 10.00
M	mCERTS accredited.	Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
aq	Aqueous / settled sample.	Date Sampled	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018	18/12/2018
diss.filt	Dissolved / filtered sample.	Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
tot.unfilt	Total / unfiltered sample.	SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
*	Subcontracted - refer to subcontractor report for accreditation status.	Lab Sample No.(s)	19011033	19011022	19011023	19011024	19011025	19011028
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference						
1-3*§@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	29	86.4	103	86.5	78.1	102
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @	385 @	1840 @	771 @	<100 @	163 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	12.2 @	23.1 @	13.6 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	36.5 @	78.9 @	49.6 @	<10 @	24.2 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	94.5 @	320 @	160 @	13.9 @	41.4 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	105 @	718 @	260 @	12.8 @	36.8 @
Aliphatics >C12-C16	<100 µg/kg	TM173	1550	<100	<100	660	996	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	1820	4260	2900	4320	2130	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	4770	32300	25400	64000	17500	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	1020	12000	12800	31500	6880	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	9150	48600	41100	101000	27500	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	62.1 @	214 @	107 @	<10 @	27.6 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	70.2 @	479 @	174 @	<10 @	25.3 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	3860	5670	2910	2930	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	26500	29500	21500	13700	2090
Aromatics >EC21-EC35	<100 µg/kg	TM173	2230	82600	73700	84900	44700	5990
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	18300	14200	23400	12000	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	4600	3650	6630	4180	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	2230	131000	123000	133000	73400	8070
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	11400	180000	166000	234000	101000	8230



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Results Legend		Customer Sample Ref.	BH211	BH211	BH211	BH211	BH211	BH211
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-3*§@	Sample deviation (see appendix)							
		Depth (m)	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	8.00 - 9.00	9.00 - 10.00	0.00 - 1.00
		Sample Type	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)	Unspecified Solid (UNS)
		Date Sampled	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-73	181220-73	181220-73	181220-73	181220-73	181220-73
		Lab Sample No.(s)	19010985	19010986	19010988	19010990	19010992	19010998
		AGS Reference						
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	107 @	104 @	102 @	124 @	126 @	109 @
Toluene-d8**	%	TM116	97.9 @	97.5 @	96.2 @	97.1 @	95.3 @	98.8 @
4-Bromofluorobenzene**	%	TM116	94.9 @	93.3 @	95.3 @	82.9 @	90.3 @	98.8 @
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<100 @	<100 @	<100 @	<10 @	<10 @	<200 @
Benzene	<9 µg/kg	TM116	<90 @	<90 @	<90 @	<9 @	<9 @	<180 @
Toluene	<7 µg/kg	TM116	<70 @	<70 @	<70 @	8.52 @	<7 @	<140 @
Ethylbenzene	<4 µg/kg	TM116	<40 @	<40 @	<40 @	<4 @	<4 @	<80 @
p/m-Xylene	<10 µg/kg	TM116	<100 @	<100 @	<100 @	<10 @	<10 @	<200 @
o-Xylene	<10 µg/kg	TM116	<100 @	<100 @	<100 @	<10 @	<10 @	<200 @
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.2 @	<0.2 @	<0.2 @	<0.02 @	<0.02 @	<0.4 @
Sum of BTEX	<40 µg/kg	TM116	<400 @	<400 @	<400 @	<40 @	<40 @	<800 @



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Asbestos Identification Asbestos Identification - Soil

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&+@ Sample deviation (see appendix)

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
07/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
07/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
07/01/2019	Paul Poynton	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
07/01/2019	Paul Poynton	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH211 NS Z 15.00 - 16.00 MISC_SOLID 17/12/2018 00:00:00 21/12/2018 14:48:25 181220-73 19,010,996 TM048	07/01/2019	Paul Poynton	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH211 NS Z 2.00 - 3.00 MISC_SOLID 17/12/2018 00:00:00 29/12/2018 09:05:21 181220-73 19,010,985 TM048	04/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH211 NS Z 3.00 - 4.00 MISC_SOLID 17/12/2018 00:00:00 29/12/2018 09:03:04 181220-73 19,010,986 TM048	04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH211 NS Z 4.50 - 6.00 MISC_SOLID 17/12/2018 00:00:00 22/12/2018 11:23:12 181220-73 19,010,988 TM048	07/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH211 NS Z 8.00 - 10.00 MISC_SOLID 17/12/2018 00:00:00 21/12/2018 14:25:39 181220-73 19,010,990 TM048	07/01/2019	Paul Poynton	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH211 NS Z 9.00 - 10.00 MISC_SOLID 17/12/2018 00:00:00 22/12/2018 11:25:03 181220-73 19,010,992 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 0.00 - 1.00 MISC_SOLID 17/12/2018 00:00:00 21/12/2018 14:01:33 181220-73 19,010,998 TM048	04/01/2019	Lucy Caroe	Soil containing debris typical of asbestos cement	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 1.00 - 2.00 MISC_SOLID 17/12/2018 00:00:00 21/12/2018 14:06:01 181220-73 19,010,999 TM048	04/01/2019	Marcin Magdziarek	Loose fibre in soil	Not Detected	Trace	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 10.50 - 12.00 MISC_SOLID 17/12/2018 00:00:00 22/12/2018 11:32:56 181220-73 19,011,008 TM048	04/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 13.00 - 14.00 MISC_SOLID 17/12/2018 00:00:00 22/12/2018 11:08:47 181220-73 19,011,011 TM048	07/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 14.00 - 15.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 11:07:26 181220-73 19,011,012 TM048	07/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 15.00 - 16.00 MISC_SOLID 18/12/2018 00:00:00 21/12/2018 14:46:17 181220-73 19,011,014 TM048	07/01/2019	Paul Poynton	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 16.00 - 17.00 MISC_SOLID 18/12/2018 00:00:00 21/12/2018 15:02:32 181220-73 19,011,016 TM048	04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 2.00 - 3.00 MISC_SOLID 17/12/2018 00:00:00 22/12/2018 10:49:14 181220-73 19,011,000 TM048	07/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 3.00 - 4.00 MISC_SOLID 17/12/2018 00:00:00 29/12/2018 09:06:29 181220-73 19,011,001 TM048	04/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 4.50 - 6.00 MISC_SOLID 17/12/2018 00:00:00 29/12/2018 09:02:25 181220-73 19,011,003 TM048	04/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 6.00 - 7.00 MISC_SOLID 17/12/2018 00:00:00 22/12/2018 11:24:59 181220-73 19,011,004 TM048	07/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 7.00 - 8.00 MISC_SOLID 17/12/2018 00:00:00 22/12/2018 11:24:17 181220-73 19,011,005 TM048	07/01/2019	Andrzej Ferrecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH212 NS Z 9.00 - 10.50 MISC_SOLID 17/12/2018 00:00:00 21/12/2018 14:24:17 181220-73 19,011,007 TM048	04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 0.00 - 0.50 MISC_SOLID 18/12/2018 00:00:00 21/12/2018 14:02:56 181220-73 19,011,018 TM048	04/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 0.50 - 1.00 MISC_SOLID 18/12/2018 00:00:00 21/12/2018 13:59:21 181220-73 19,011,019 TM048	04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 1.00 - 2.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 10:47:17 181220-73 19,011,020 TM048	07/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 10.00 - 12.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 11:27:19 181220-73 19,011,029 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 12.50 - 14.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 11:22:03 181220-73 19,011,030 TM048	04/01/2019	Marcin Magdziarek	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 15.00 - 16.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 11:04:32 181220-73 19,011,031 TM048	07/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 16.00 - 17.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 11:05:31 181220-73 19,011,033 TM048	07/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 16.00 - 17.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 10:50:22 181220-73 19,011,022 TM048	07/01/2019	James Richards	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 2.00 - 3.00 MISC_SOLID 18/12/2018 00:00:00 29/12/2018 09:03:44 181220-73 19,011,023 TM048	04/01/2019	Andrzej Ferfecki	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 4.00 - 5.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 11:26:10 181220-73 19,011,024 TM048	04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 5.00 - 6.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 11:22:29 181220-73 19,011,025 TM048	04/01/2019	Lucy Caroe	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH213 NS Z 9.00 - 10.00 MISC_SOLID 18/12/2018 00:00:00 22/12/2018 11:34:41 181220-73 19,011,028 TM048	07/01/2019	Barbara Urbanek-Walsh	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010982
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.86
Loss on Ignition (%)	4.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.39
ANC to pH 6 (mol/kg)	0.0509
ANC to pH 4 (mol/kg)	0.564

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00177	<0.0005	0.0177	<0.005	0.5	2	25
Barium	0.00585	<0.0002	0.0585	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000456	<0.0003	0.00456	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0456	<0.003	0.456	<0.03	0.5	10	30
Nickel	0.00173	<0.0004	0.0173	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0044	<0.001	0.044	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00369	<0.001	0.0369	<0.01	4	50	200
Chloride	4.5	<2	45	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	50.1	<2	501	<20	1000	20000	50000
Total Dissolved Solids	154	<5	1540	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.2	<3	132	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.32
Conductivity (µS/cm)	202
Temperature (°C)	16.90
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 14:32:16



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.115
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010982
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.86
Loss on Ignition (%)	4.86
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.39
ANC to pH 6 (mol/kg)	0.0509
ANC to pH 4 (mol/kg)	0.564

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.32
Conductivity (µS/cm)	202
Temperature (°C)	16.90
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 14:32:16



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010984
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.02
Loss on Ignition (%)	3.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.08
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.54
ANC to pH 6 (mol/kg)	0.0592
ANC to pH 4 (mol/kg)	0.672

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00394	<0.0005	0.0394	<0.005	0.5	2	25
Barium	0.00789	<0.0002	0.0789	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0255	<0.003	0.255	<0.03	0.5	10	30
Nickel	0.00135	<0.0004	0.0135	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00219	<0.001	0.0219	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00112	<0.001	0.0112	<0.01	4	50	200
Chloride	2.7	<2	27	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	60.1	<2	601	<20	1000	20000	50000
Total Dissolved Solids	184	<5	1840	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.21	<3	92.1	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	244
Temperature (°C)	15.90
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.120
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	33.3
Dry Matter Content (%)	75.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010984
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.02
Loss on Ignition (%)	3.52
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.08
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.54
ANC to pH 6 (mol/kg)	0.0592
ANC to pH 4 (mol/kg)	0.672

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.50
Conductivity (µS/cm)	244
Temperature (°C)	15.90
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010985
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.01
Loss on Ignition (%)	4.74
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	25.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.78
ANC to pH 6 (mol/kg)	0.0509
ANC to pH 4 (mol/kg)	0.386

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00476	<0.0005	0.0476	<0.005	0.5	2	25
Barium	0.00482	<0.0002	0.0482	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000334	<0.0003	0.00334	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0259	<0.003	0.259	<0.03	0.5	10	30
Nickel	0.0011	<0.0004	0.011	<0.004	0.4	10	40
Lead	0.0048	<0.0002	0.048	<0.002	0.5	10	50
Antimony	0.00198	<0.001	0.0198	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00455	<0.001	0.0455	<0.01	4	50	200
Chloride	9.2	<2	92	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	34.2	<2	342	<20	1000	20000	50000
Total Dissolved Solids	185	<5	1850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.3	<3	113	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	240
Temperature (°C)	16.90
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.117
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	29.9
Dry Matter Content (%)	77.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010985
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.01
Loss on Ignition (%)	4.74
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	25.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.78
ANC to pH 6 (mol/kg)	0.0509
ANC to pH 4 (mol/kg)	0.386

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	240
Temperature (°C)	16.90
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.116
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010986
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.41
Loss on Ignition (%)	6.41
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.73
ANC to pH 6 (mol/kg)	0.0585
ANC to pH 4 (mol/kg)	0.265

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00252	<0.0005	0.0252	<0.005	0.5	2	25
Barium	0.00336	<0.0002	0.0336	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0288	<0.003	0.288	<0.03	0.5	10	30
Nickel	0.00116	<0.0004	0.0116	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00224	<0.001	0.0224	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	9.4	<2	94	<20	800	15000	25000
Fluoride	0.504	<0.5	5.04	<5	10	150	500
Sulphate (soluble)	40.9	<2	409	<20	1000	20000	50000
Total Dissolved Solids	201	<5	2010	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.8	<3	138	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.91
Conductivity (µS/cm)	288
Temperature (°C)	16.70
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.116
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	28.2
Dry Matter Content (%)	78.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010986
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.41
Loss on Ignition (%)	6.41
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	20.5
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.73
ANC to pH 6 (mol/kg)	0.0585
ANC to pH 4 (mol/kg)	0.265

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.91
Conductivity (µS/cm)	288
Temperature (°C)	16.70
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010988
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	4.50 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.30
Loss on Ignition (%)	8.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.89
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.19
ANC to pH 6 (mol/kg)	0.0331
ANC to pH 4 (mol/kg)	0.110

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00104	<0.0005	0.0104	<0.005	0.5	2	25
Barium	0.00953	<0.0002	0.0953	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0139	<0.003	0.139	<0.03	0.5	10	30
Nickel	0.000772	<0.0004	0.00772	<0.004	0.4	10	40
Lead	0.000746	<0.0002	0.00746	<0.002	0.5	10	50
Antimony	0.00161	<0.001	0.0161	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0104	<0.001	0.104	<0.01	4	50	200
Chloride	2.4	<2	24	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	132	<2	1320	<20	1000	20000	50000
Total Dissolved Solids	310	<5	3100	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.07	<0.016	0.7	<0.16	1	-	-
Dissolved Organic Carbon	3.8	<3	38	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.05
Conductivity (µS/cm)	398
Temperature (°C)	18.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.105	Natural Moisture Content (%)	16.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	86.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19010988
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	4.50 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.30
Loss on Ignition (%)	8.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.89
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.19
ANC to pH 6 (mol/kg)	0.0331
ANC to pH 4 (mol/kg)	0.110

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.05
Conductivity (µS/cm)	398
Temperature (°C)	18.00
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010990
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.655
Loss on Ignition (%)	0.741
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.0875
ANC to pH 4 (mol/kg)	0.328

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00104	<0.0005	0.0104	<0.005	0.5	2	25
Barium	0.0067	<0.0002	0.067	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000487	<0.0003	0.00487	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0105	<0.003	0.105	<0.03	0.5	10	30
Nickel	0.000472	<0.0004	0.00472	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00266	<0.001	0.0266	<0.01	0.06	0.7	5
Selenium	0.00112	<0.001	0.0112	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	30	<2	300	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	52.3	<2	523	<20	1000	20000	50000
Total Dissolved Solids	229	<5	2290	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.73	<3	37.3	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	295
Temperature (°C)	16.40
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19010990
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.655
Loss on Ignition (%)	0.741
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.0875
ANC to pH 4 (mol/kg)	0.328

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.42
Conductivity (µS/cm)	295
Temperature (°C)	16.40
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010992
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.378
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.06
ANC to pH 6 (mol/kg)	0.0782
ANC to pH 4 (mol/kg)	0.274

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00097	<0.0005	0.0097	<0.005	0.5	2	25
Barium	0.00649	<0.0002	0.0649	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000587	<0.0003	0.00587	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00372	<0.003	0.0372	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00215	<0.001	0.0215	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	85.1	<2	851	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	24.9	<2	249	<20	1000	20000	50000
Total Dissolved Solids	278	<5	2780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.89
Conductivity (µS/cm)	382
Temperature (°C)	16.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010992
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.378
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.06
ANC to pH 6 (mol/kg)	0.0782
ANC to pH 4 (mol/kg)	0.274

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.89
Conductivity (µS/cm)	382
Temperature (°C)	16.60
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010993
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	10.50 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.577
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.273
ANC to pH 4 (mol/kg)	2.18

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00103	<0.0005	0.0103	<0.005	0.5	2	25
Barium	0.0262	<0.0002	0.262	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000821	<0.0003	0.00821	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00672	<0.003	0.0672	<0.03	0.5	10	30
Nickel	0.000537	<0.0004	0.00537	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0105	<0.001	0.105	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	157	<2	1570	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	38.1	<2	381	<20	1000	20000	50000
Total Dissolved Solids	477	<5	4770	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.08	<3	30.8	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.59
Conductivity (µS/cm)	652
Temperature (°C)	15.80
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.107
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	19.0
Dry Matter Content (%)	84.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010993
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	10.50 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.577
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.89
ANC to pH 6 (mol/kg)	0.273
ANC to pH 4 (mol/kg)	2.18

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.59
Conductivity (µS/cm)	652
Temperature (°C)	15.80
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.1
Dry Matter Content (%)	90.8

Case	
SDG	181220-73
Lab Sample Number(s)	19010994
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.598
Loss on Ignition (%)	2.32
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.71
ANC to pH 6 (mol/kg)	0.308
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0562	<0.0002	0.562	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000669	<0.0003	0.00669	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0117	<0.003	0.117	<0.03	0.5	10	30
Nickel	0.000943	<0.0004	0.00943	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00206	<0.001	0.0206	<0.01	0.06	0.7	5
Selenium	0.0194	<0.001	0.194	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	169	<2	1690	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.7	<2	547	<20	1000	20000	50000
Total Dissolved Solids	522	<5	5220	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.28
Conductivity (µS/cm)	696
Temperature (°C)	16.10
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.8
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19010994
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.598
Loss on Ignition (%)	2.32
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.71
ANC to pH 6 (mol/kg)	0.308
ANC to pH 4 (mol/kg)	1.11

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.28
Conductivity (µS/cm)	696
Temperature (°C)	16.10
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.72
Dry Matter Content (%)	93.7

Case	
SDG	181220-73
Lab Sample Number(s)	19010995
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.731
Loss on Ignition (%)	2.28
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.14
ANC to pH 6 (mol/kg)	0.142
ANC to pH 4 (mol/kg)	1.26

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0347	<0.0002	0.347	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000779	<0.0003	0.00779	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0214	<0.003	0.214	<0.03	0.5	10	30
Nickel	0.000948	<0.0004	0.00948	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00168	<0.001	0.0168	<0.01	0.06	0.7	5
Selenium	0.0357	<0.001	0.357	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	166	<2	1660	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	81.1	<2	811	<20	1000	20000	50000
Total Dissolved Solids	464	<5	4640	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.02
Conductivity (µS/cm)	637
Temperature (°C)	15.60
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.097
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	6.72
Dry Matter Content (%)	93.7

Case	
SDG	181220-73
Lab Sample Number(s)	19010995
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.731
Loss on Ignition (%)	2.28
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.7
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.14
ANC to pH 6 (mol/kg)	0.142
ANC to pH 4 (mol/kg)	1.26

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.02
Conductivity (µS/cm)	637
Temperature (°C)	15.60
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010996
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.629
Loss on Ignition (%)	1.91
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.49
ANC to pH 6 (mol/kg)	0.0642
ANC to pH 4 (mol/kg)	0.701

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0293	<0.0002	0.293	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000688	<0.0003	0.00688	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0164	<0.003	0.164	<0.03	0.5	10	30
Nickel	0.00155	<0.0004	0.0155	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00152	<0.001	0.0152	<0.01	0.06	0.7	5
Selenium	0.0159	<0.001	0.159	<0.01	0.1	0.5	7
Zinc	0.00117	<0.001	0.0117	<0.01	4	50	200
Chloride	209	<4	2090	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	75.9	<2	759	<20	1000	20000	50000
Total Dissolved Solids	633	<5	6330	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.56
Conductivity (µS/cm)	837
Temperature (°C)	16.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010996
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH211
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.629
Loss on Ignition (%)	1.91
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.6
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.49
ANC to pH 6 (mol/kg)	0.0642
ANC to pH 4 (mol/kg)	0.701

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.56
Conductivity (µS/cm)	837
Temperature (°C)	16.00
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.099
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.0
Dry Matter Content (%)	90.9

Case	
SDG	181220-73
Lab Sample Number(s)	19010998
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.999
Loss on Ignition (%)	2.92
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	36.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.69
ANC to pH 6 (mol/kg)	0.122
ANC to pH 4 (mol/kg)	0.294

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00256	<0.0005	0.0256	<0.005	0.5	2	25
Barium	0.0156	<0.0002	0.156	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0226	<0.001	0.226	<0.01	0.5	10	70
Copper	0.0299	<0.0003	0.299	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00891	<0.003	0.0891	<0.03	0.5	10	30
Nickel	0.01	<0.0004	0.1	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00229	<0.001	0.0229	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	28.4	<2	284	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	26.9	<2	269	<20	1000	20000	50000
Total Dissolved Solids	551	<5	5510	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.33	<3	63.3	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	11.24
Conductivity (µS/cm)	794
Temperature (°C)	16.60
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.9
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19010998
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.999
Loss on Ignition (%)	2.92
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	36.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	11.69
ANC to pH 6 (mol/kg)	0.122
ANC to pH 4 (mol/kg)	0.294

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	11.24
Conductivity (µS/cm)	794
Temperature (°C)	16.60
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010999
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.803
Loss on Ignition (%)	2.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	82.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.0533
ANC to pH 4 (mol/kg)	0.256

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00345	<0.0005	0.0345	<0.005	0.5	2	25
Barium	0.00645	<0.0002	0.0645	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00189	<0.0003	0.0189	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.017	<0.003	0.17	<0.03	0.5	10	30
Nickel	0.00123	<0.0004	0.0123	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.002	<0.001	0.02	<0.01	0.06	0.7	5
Selenium	0.00136	<0.001	0.0136	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	12.9	<2	129	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	64	<2	640	<20	1000	20000	50000
Total Dissolved Solids	173	<5	1730	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.74	<3	67.4	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	231
Temperature (°C)	16.30
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	181220-73
Lab Sample Number(s)	19010999
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.803
Loss on Ignition (%)	2.71
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	82.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.0533
ANC to pH 4 (mol/kg)	0.256

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	231
Temperature (°C)	16.30
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.125
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	38.9
Dry Matter Content (%)	72.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011000
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.42
Loss on Ignition (%)	8.53
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	68.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.50
ANC to pH 6 (mol/kg)	0.0945
ANC to pH 4 (mol/kg)	0.614

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00158	<0.0005	0.0158	<0.005	0.5	2	25
Barium	0.00773	<0.0002	0.0773	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0302	<0.003	0.302	<0.03	0.5	10	30
Nickel	0.0031	<0.0004	0.031	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00149	<0.001	0.0149	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00102	<0.001	0.0102	<0.01	4	50	200
Chloride	8.7	<2	87	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	92.8	<2	928	<20	1000	20000	50000
Total Dissolved Solids	250	<5	2500	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.5	<3	115	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.90
Conductivity (µS/cm)	339
Temperature (°C)	16.70
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.125	Natural Moisture Content (%)	38.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	72.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19011000
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.42
Loss on Ignition (%)	8.53
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	68.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.50
ANC to pH 6 (mol/kg)	0.0945
ANC to pH 4 (mol/kg)	0.614

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.90
Conductivity (µS/cm)	339
Temperature (°C)	16.70
Volume Leachant (Litres)	0.865

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.124
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011001
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.37
Loss on Ignition (%)	4.91
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0659
ANC to pH 4 (mol/kg)	0.598

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00167	<0.0005	0.0167	<0.005	0.5	2	25
Barium	0.004	<0.0002	0.04	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00112	<0.0003	0.0112	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0333	<0.003	0.333	<0.03	0.5	10	30
Nickel	0.000578	<0.0004	0.00578	<0.004	0.4	10	40
Lead	0.000234	<0.0002	0.00234	<0.002	0.5	10	50
Antimony	0.00246	<0.001	0.0246	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	14	<2	140	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	42	<2	420	<20	1000	20000	50000
Total Dissolved Solids	201	<5	2010	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.8	<3	138	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	265
Temperature (°C)	16.80
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.124
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011001
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.37
Loss on Ignition (%)	4.91
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.8
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.93
ANC to pH 6 (mol/kg)	0.0659
ANC to pH 4 (mol/kg)	0.598

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	265
Temperature (°C)	16.80
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011003
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	4.50 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.88
Loss on Ignition (%)	2.73
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.75
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.155

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00138	<0.0005	0.0138	<0.005	0.5	2	25
Barium	0.00432	<0.0002	0.0432	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0048	<0.0003	0.048	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0254	<0.003	0.254	<0.03	0.5	10	30
Nickel	0.000905	<0.0004	0.00905	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0029	<0.001	0.029	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	4.9	<2	49	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	75.2	<2	752	<20	1000	20000	50000
Total Dissolved Solids	244	<5	2440	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.14	<3	71.4	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.26
Conductivity (µS/cm)	319
Temperature (°C)	16.90
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22.0
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19011003
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	4.50 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.88
Loss on Ignition (%)	2.73
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.75
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.155

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.26
Conductivity (µS/cm)	319
Temperature (°C)	16.90
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011004
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.431
Loss on Ignition (%)	2.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.10
ANC to pH 6 (mol/kg)	0.0479
ANC to pH 4 (mol/kg)	0.0882

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000945	<0.0005	0.00945	<0.005	0.5	2	25
Barium	0.00485	<0.0002	0.0485	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00819	<0.003	0.0819	<0.03	0.5	10	30
Nickel	0.000426	<0.0004	0.00426	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00104	<0.001	0.0104	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	5.2	<2	52	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	85.6	<2	856	<20	1000	20000	50000
Total Dissolved Solids	201	<5	2010	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.17
Conductivity (µS/cm)	260
Temperature (°C)	17.90
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19011004
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.431
Loss on Ignition (%)	2.34
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.10
ANC to pH 6 (mol/kg)	0.0479
ANC to pH 4 (mol/kg)	0.0882

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.17
Conductivity (µS/cm)	260
Temperature (°C)	17.90
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.41
Dry Matter Content (%)	91.4

Case	
SDG	181220-73
Lab Sample Number(s)	19011005
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.402
Loss on Ignition (%)	1.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.52
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.54
ANC to pH 6 (mol/kg)	0.180
ANC to pH 4 (mol/kg)	1.18

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00115	<0.0005	0.0115	<0.005	0.5	2	25
Barium	0.00377	<0.0002	0.0377	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00638	<0.003	0.0638	<0.03	0.5	10	30
Nickel	0.000536	<0.0004	0.00536	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00183	<0.001	0.0183	<0.01	0.06	0.7	5
Selenium	0.00113	<0.001	0.0113	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	5	<2	50	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	62.1	<2	621	<20	1000	20000	50000
Total Dissolved Solids	164	<5	1640	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.71
Conductivity (µS/cm)	193
Temperature (°C)	15.60
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.098
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	9.41
Dry Matter Content (%)	91.4

Case	
SDG	181220-73
Lab Sample Number(s)	19011005
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.402
Loss on Ignition (%)	1.06
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.52
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.54
ANC to pH 6 (mol/kg)	0.180
ANC to pH 4 (mol/kg)	1.18

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.71
Conductivity (µS/cm)	193
Temperature (°C)	15.60
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011007
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	9.00 - 10.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.345
Loss on Ignition (%)	1.18
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.39
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	1.02

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00201	<0.0005	0.0201	<0.005	0.5	2	25
Barium	0.0105	<0.0002	0.105	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0116	<0.003	0.116	<0.03	0.5	10	30
Nickel	0.000545	<0.0004	0.00545	<0.004	0.4	10	40
Lead	0.000236	<0.0002	0.00236	<0.002	0.5	10	50
Antimony	0.0018	<0.001	0.018	<0.01	0.06	0.7	5
Selenium	0.00338	<0.001	0.0338	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	50.4	<2	504	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	16.2	<2	162	<20	1000	20000	50000
Total Dissolved Solids	183	<5	1830	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	09-Jan-2019
pH (pH Units)	6.98
Conductivity (µS/cm)	232
Temperature (°C)	18.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011007
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	9.00 - 10.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.345
Loss on Ignition (%)	1.18
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.39
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	1.02

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	09-Jan-2019
pH (pH Units)	6.98
Conductivity (µS/cm)	232
Temperature (°C)	18.60
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011008
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	10.50 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.279
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.23
ANC to pH 6 (mol/kg)	0.0500
ANC to pH 4 (mol/kg)	0.0821

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00116	<0.0005	0.0116	<0.005	0.5	2	25
Barium	0.00442	<0.0002	0.0442	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00198	<0.001	0.0198	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	98.3	<2	983	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	18.7	<2	187	<20	1000	20000	50000
Total Dissolved Solids	293	<5	2930	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.35
Conductivity (µS/cm)	395
Temperature (°C)	16.70
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011008
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	10.50 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.279
Loss on Ignition (%)	<0.700
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	9.23
ANC to pH 6 (mol/kg)	0.0500
ANC to pH 4 (mol/kg)	0.0821

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.35
Conductivity (µS/cm)	395
Temperature (°C)	16.70
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.9
Dry Matter Content (%)	90.2

Case	
SDG	181220-73
Lab Sample Number(s)	19011011
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.500
Loss on Ignition (%)	2.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.66
ANC to pH 6 (mol/kg)	0.117
ANC to pH 4 (mol/kg)	0.375

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000805	<0.0005	0.00805	<0.005	0.5	2	25
Barium	0.0243	<0.0002	0.243	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00689	<0.003	0.0689	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00108	<0.001	0.0108	<0.01	0.06	0.7	5
Selenium	0.01	<0.001	0.1	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	173	<2	1730	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	32.3	<2	323	<20	1000	20000	50000
Total Dissolved Solids	489	<5	4890	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	9.42
Conductivity (µS/cm)	673
Temperature (°C)	16.80
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	10.9
Dry Matter Content (%)	90.2

Case	
SDG	181220-73
Lab Sample Number(s)	19011011
Sampled Date	17-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.500
Loss on Ignition (%)	2.60
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.66
ANC to pH 6 (mol/kg)	0.117
ANC to pH 4 (mol/kg)	0.375

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	9.42
Conductivity (µS/cm)	673
Temperature (°C)	16.80
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011012
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.529
Loss on Ignition (%)	1.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.81
ANC to pH 6 (mol/kg)	0.206
ANC to pH 4 (mol/kg)	1.30

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0472	<0.0002	0.472	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000486	<0.0003	0.00486	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0142	<0.003	0.142	<0.03	0.5	10	30
Nickel	0.00125	<0.0004	0.0125	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00195	<0.001	0.0195	<0.01	0.06	0.7	5
Selenium	0.0234	<0.001	0.234	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	234	<4	2340	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	49.8	<2	498	<20	1000	20000	50000
Total Dissolved Solids	657	<5	6570	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.47
Conductivity (µS/cm)	906
Temperature (°C)	16.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19011012
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.529
Loss on Ignition (%)	1.56
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.81
ANC to pH 6 (mol/kg)	0.206
ANC to pH 4 (mol/kg)	1.30

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.47
Conductivity (µS/cm)	906
Temperature (°C)	16.20
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011014
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.10
Loss on Ignition (%)	2.51
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.17
ANC to pH 6 (mol/kg)	0.167
ANC to pH 4 (mol/kg)	1.35

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0336	<0.0002	0.336	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00113	<0.0003	0.0113	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0203	<0.003	0.203	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0016	<0.001	0.016	<0.01	0.06	0.7	5
Selenium	0.0299	<0.001	0.299	<0.01	0.1	0.5	7
Zinc	0.00118	<0.001	0.0118	<0.01	4	50	200
Chloride	158	<2	1580	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	62.5	<2	625	<20	1000	20000	50000
Total Dissolved Solids	453	<5	4530	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.63
Conductivity (µS/cm)	605
Temperature (°C)	15.90
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011014
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.10
Loss on Ignition (%)	2.51
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.17
ANC to pH 6 (mol/kg)	0.167
ANC to pH 4 (mol/kg)	1.35

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.63
Conductivity (µS/cm)	605
Temperature (°C)	15.90
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011016
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.771
Loss on Ignition (%)	2.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	55.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.09
ANC to pH 6 (mol/kg)	0.151
ANC to pH 4 (mol/kg)	2.15

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0279	<0.0002	0.279	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000793	<0.0003	0.00793	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0247	<0.003	0.247	<0.03	0.5	10	30
Nickel	0.00135	<0.0004	0.0135	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0016	<0.001	0.016	<0.01	0.06	0.7	5
Selenium	0.0344	<0.001	0.344	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	154	<2	1540	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	76.1	<2	761	<20	1000	20000	50000
Total Dissolved Solids	466	<5	4660	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.15
Conductivity (µS/cm)	622
Temperature (°C)	15.70
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011016
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH212
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.771
Loss on Ignition (%)	2.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	55.4
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.09
ANC to pH 6 (mol/kg)	0.151
ANC to pH 4 (mol/kg)	2.15

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.15
Conductivity (µS/cm)	622
Temperature (°C)	15.70
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011018
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.02
Loss on Ignition (%)	5.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.23
ANC to pH 6 (mol/kg)	0.0707
ANC to pH 4 (mol/kg)	0.321

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00512	<0.0005	0.0512	<0.005	0.5	2	25
Barium	0.0183	<0.0002	0.183	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00222	<0.001	0.0222	<0.01	0.5	10	70
Copper	0.00121	<0.0003	0.0121	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00632	<0.003	0.0632	<0.03	0.5	10	30
Nickel	0.000688	<0.0004	0.00688	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0011	<0.001	0.011	<0.01	0.06	0.7	5
Selenium	0.00275	<0.001	0.0275	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	12.8	<2	128	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.4	<2	564	<20	1000	20000	50000
Total Dissolved Solids	168	<5	1680	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.13	<3	31.3	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.51
Conductivity (µS/cm)	226
Temperature (°C)	16.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19011018
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.02
Loss on Ignition (%)	5.37
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	31.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.23
ANC to pH 6 (mol/kg)	0.0707
ANC to pH 4 (mol/kg)	0.321

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.51
Conductivity (µS/cm)	226
Temperature (°C)	16.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011019
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.15
Loss on Ignition (%)	5.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.73
PAH Sum of 17 (mg/kg)	29.4
pH (pH Units)	7.50
ANC to pH 6 (mol/kg)	0.0460
ANC to pH 4 (mol/kg)	0.311

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00107	<0.0005	0.0107	<0.005	0.5	2	25
Barium	0.0181	<0.0002	0.181	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00324	<0.0003	0.0324	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00937	<0.003	0.0937	<0.03	0.5	10	30
Nickel	0.00221	<0.0004	0.0221	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00211	<0.001	0.0211	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00347	<0.001	0.0347	<0.01	4	50	200
Chloride	3.8	<2	38	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	180	<2	1800	<20	1000	20000	50000
Total Dissolved Solids	372	<5	3720	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.9	<3	49	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.06
Conductivity (µS/cm)	495
Temperature (°C)	16.70
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.110
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	22.0
Dry Matter Content (%)	82.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011019
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.15
Loss on Ignition (%)	5.25
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.73
PAH Sum of 17 (mg/kg)	29.4
pH (pH Units)	7.50
ANC to pH 6 (mol/kg)	0.0460
ANC to pH 4 (mol/kg)	0.311

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.06
Conductivity (µS/cm)	495
Temperature (°C)	16.70
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.114
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	26.6
Dry Matter Content (%)	79.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011020
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.46
Loss on Ignition (%)	4.65
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.19
PAH Sum of 17 (mg/kg)	23.5
pH (pH Units)	7.44
ANC to pH 6 (mol/kg)	0.0453
ANC to pH 4 (mol/kg)	0.279

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00166	<0.0005	0.0166	<0.005	0.5	2	25
Barium	0.0105	<0.0002	0.105	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0158	<0.003	0.158	<0.03	0.5	10	30
Nickel	0.00184	<0.0004	0.0184	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00161	<0.001	0.0161	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	149	<2	1490	<20	1000	20000	50000
Total Dissolved Solids	321	<5	3210	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.71	<3	67.1	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.25
Conductivity (µS/cm)	448
Temperature (°C)	16.50
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19011020
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.46
Loss on Ignition (%)	4.65
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.19
PAH Sum of 17 (mg/kg)	23.5
pH (pH Units)	7.44
ANC to pH 6 (mol/kg)	0.0453
ANC to pH 4 (mol/kg)	0.279

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.25
Conductivity (µS/cm)	448
Temperature (°C)	16.50
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.121
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011022
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.24
Loss on Ignition (%)	5.59
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	49.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.50
ANC to pH 6 (mol/kg)	0.0622
ANC to pH 4 (mol/kg)	0.331

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00276	<0.0005	0.0276	<0.005	0.5	2	25
Barium	0.00834	<0.0002	0.0834	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00053	<0.0003	0.0053	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0222	<0.003	0.222	<0.03	0.5	10	30
Nickel	0.00124	<0.0004	0.0124	<0.004	0.4	10	40
Lead	0.000277	<0.0002	0.00277	<0.002	0.5	10	50
Antimony	0.00191	<0.001	0.0191	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00222	<0.001	0.0222	<0.01	4	50	200
Chloride	11.8	<2	118	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	114	<2	1140	<20	1000	20000	50000
Total Dissolved Solids	306	<5	3060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.7	<3	107	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8115.00
Conductivity (µS/cm)	419
Temperature (°C)	16.00
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.121
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	35.1
Dry Matter Content (%)	74.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011022
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.24
Loss on Ignition (%)	5.59
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	49.1
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.50
ANC to pH 6 (mol/kg)	0.0622
ANC to pH 4 (mol/kg)	0.331

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8115.00
Conductivity (µS/cm)	419
Temperature (°C)	16.00
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.124
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011023
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.22
Loss on Ignition (%)	6.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	69.5
PAH Sum of 17 (mg/kg)	18.6
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.400

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00329	<0.0005	0.0329	<0.005	0.5	2	25
Barium	0.00937	<0.0002	0.0937	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0282	<0.003	0.282	<0.03	0.5	10	30
Nickel	0.000993	<0.0004	0.00993	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00174	<0.001	0.0174	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	10.8	<2	108	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.2	<2	562	<20	1000	20000	50000
Total Dissolved Solids	234	<5	2340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11	<3	110	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.93
Conductivity (µS/cm)	317
Temperature (°C)	16.70
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.124
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	37.0
Dry Matter Content (%)	73.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011023
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.22
Loss on Ignition (%)	6.62
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	69.5
PAH Sum of 17 (mg/kg)	18.6
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0534
ANC to pH 4 (mol/kg)	0.400

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	7.93
Conductivity (µS/cm)	317
Temperature (°C)	16.70
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011024
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.46
Loss on Ignition (%)	7.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0472
ANC to pH 4 (mol/kg)	0.406

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00289	<0.0005	0.0289	<0.005	0.5	2	25
Barium	0.0118	<0.0002	0.118	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0257	<0.003	0.257	<0.03	0.5	10	30
Nickel	0.00103	<0.0004	0.0103	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00135	<0.001	0.0135	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0016	<0.001	0.016	<0.01	4	50	200
Chloride	12.7	<2	127	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	117	<2	1170	<20	1000	20000	50000
Total Dissolved Solids	335	<5	3350	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.52	<3	95.2	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	433
Temperature (°C)	18.10
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.111
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	23.5
Dry Matter Content (%)	81.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011024
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.46
Loss on Ignition (%)	7.00
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.64
ANC to pH 6 (mol/kg)	0.0472
ANC to pH 4 (mol/kg)	0.406

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.23
Conductivity (µS/cm)	433
Temperature (°C)	18.10
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.105
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	16.3
Dry Matter Content (%)	86.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011025
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.58
Loss on Ignition (%)	1.43
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	16.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.44
ANC to pH 6 (mol/kg)	0.0674
ANC to pH 4 (mol/kg)	0.272

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00108	<0.0005	0.0108	<0.005	0.5	2	25
Barium	0.0106	<0.0002	0.106	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.017	<0.003	0.17	<0.03	0.5	10	30
Nickel	0.00144	<0.0004	0.0144	<0.004	0.4	10	40
Lead	0.000222	<0.0002	0.00222	<0.002	0.5	10	50
Antimony	0.00281	<0.001	0.0281	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00169	<0.001	0.0169	<0.01	4	50	200
Chloride	8	<2	80	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	183	<2	1830	<20	1000	20000	50000
Total Dissolved Solids	401	<5	4010	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.24	<3	52.4	<30	500	800	1000

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.20
Conductivity (µS/cm)	518
Temperature (°C)	17.40
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.105	Natural Moisture Content (%)	16.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	86.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19011025
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.58
Loss on Ignition (%)	1.43
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	16.9
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	7.44
ANC to pH 6 (mol/kg)	0.0674
ANC to pH 4 (mol/kg)	0.272

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	03-Jan-2019
pH (pH Units)	8.20
Conductivity (µS/cm)	518
Temperature (°C)	17.40
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011028
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.649
Loss on Ignition (%)	2.12
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.23
ANC to pH 6 (mol/kg)	0.131
ANC to pH 4 (mol/kg)	0.734

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00157	<0.0005	0.0157	<0.005	0.5	2	25
Barium	0.0171	<0.0002	0.171	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00113	<0.0003	0.0113	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00939	<0.003	0.0939	<0.03	0.5	10	30
Nickel	0.000828	<0.0004	0.00828	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00227	<0.001	0.0227	<0.01	0.06	0.7	5
Selenium	0.00121	<0.001	0.0121	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	75.7	<2	757	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	57.1	<2	571	<20	1000	20000	50000
Total Dissolved Solids	337	<5	3370	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.33
Conductivity (µS/cm)	461
Temperature (°C)	16.50
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.103
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	14.9
Dry Matter Content (%)	87.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011028
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	9.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.649
Loss on Ignition (%)	2.12
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.23
ANC to pH 6 (mol/kg)	0.131
ANC to pH 4 (mol/kg)	0.734

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.33
Conductivity (µS/cm)	461
Temperature (°C)	16.50
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011029
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.452
Loss on Ignition (%)	1.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.673
ANC to pH 4 (mol/kg)	2.67

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000958	<0.0005	0.00958	<0.005	0.5	2	25
Barium	0.0197	<0.0002	0.197	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000638	<0.0003	0.00638	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00894	<0.003	0.0894	<0.03	0.5	10	30
Nickel	0.000405	<0.0004	0.00405	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0103	<0.001	0.103	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	170	<2	1700	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	32.8	<2	328	<20	1000	20000	50000
Total Dissolved Solids	499	<5	4990	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.39	<3	33.9	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	9.10
Conductivity (µS/cm)	666
Temperature (°C)	14.00
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.106
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	17.6
Dry Matter Content (%)	85.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011029
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.452
Loss on Ignition (%)	1.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.68
ANC to pH 6 (mol/kg)	0.673
ANC to pH 4 (mol/kg)	2.67

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	9.10
Conductivity (µS/cm)	666
Temperature (°C)	14.00
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011030
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	12.50 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.10
Loss on Ignition (%)	1.05
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.262
ANC to pH 4 (mol/kg)	1.30

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0436	<0.0002	0.436	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000386	<0.0003	0.00386	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0163	<0.003	0.163	<0.03	0.5	10	30
Nickel	0.000634	<0.0004	0.00634	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00186	<0.001	0.0186	<0.01	0.06	0.7	5
Selenium	0.0271	<0.001	0.271	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	183	<2	1830	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.6	<2	566	<20	1000	20000	50000
Total Dissolved Solids	519	<5	5190	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.07	<3	30.7	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	703
Temperature (°C)	16.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.100
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	11.1
Dry Matter Content (%)	90.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011030
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	12.50 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.10
Loss on Ignition (%)	1.05
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1.00
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.25
ANC to pH 6 (mol/kg)	0.262
ANC to pH 4 (mol/kg)	1.30

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.49
Conductivity (µS/cm)	703
Temperature (°C)	16.40
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.82
Dry Matter Content (%)	94.5

Case	
SDG	181220-73
Lab Sample Number(s)	19011031
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.665
Loss on Ignition (%)	0.966
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.49
ANC to pH 6 (mol/kg)	0.222
ANC to pH 4 (mol/kg)	1.26

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0424	<0.0002	0.424	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00035	<0.0003	0.0035	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0192	<0.003	0.192	<0.03	0.5	10	30
Nickel	0.000637	<0.0004	0.00637	<0.004	0.4	10	40
Lead	0.00129	<0.0002	0.0129	<0.002	0.5	10	50
Antimony	0.00174	<0.001	0.0174	<0.01	0.06	0.7	5
Selenium	0.0335	<0.001	0.335	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	138	<2	1380	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	56.5	<2	565	<20	1000	20000	50000
Total Dissolved Solids	405	<5	4050	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.40
Conductivity (µS/cm)	552
Temperature (°C)	15.70
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.096
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.82
Dry Matter Content (%)	94.5

Case	
SDG	181220-73
Lab Sample Number(s)	19011031
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.665
Loss on Ignition (%)	0.966
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.2
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.49
ANC to pH 6 (mol/kg)	0.222
ANC to pH 4 (mol/kg)	1.26

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.40
Conductivity (µS/cm)	552
Temperature (°C)	15.70
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.095
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	5.26
Dry Matter Content (%)	95.0

Case	
SDG	181220-73
Lab Sample Number(s)	19011033
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.920
Loss on Ignition (%)	0.797
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.85
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.49
ANC to pH 6 (mol/kg)	0.171
ANC to pH 4 (mol/kg)	0.750

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0449	<0.0002	0.449	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0151	<0.003	0.151	<0.03	0.5	10	30
Nickel	0.000605	<0.0004	0.00605	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00168	<0.001	0.0168	<0.01	0.06	0.7	5
Selenium	0.0233	<0.001	0.233	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	109	<2	1090	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.8	<2	418	<20	1000	20000	50000
Total Dissolved Solids	324	<5	3240	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	445
Temperature (°C)	16.50
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
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Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.095	Natural Moisture Content (%)	5.26
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	95.0
Particle Size <4mm	>95%		

Case	
SDG	181220-73
Lab Sample Number(s)	19011033
Sampled Date	18-Dec-2018
Customer Sample Ref.	BH213
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.920
Loss on Ignition (%)	0.797
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	6.85
PAH Sum of 17 (mg/kg)	<10.0
pH (pH Units)	8.49
ANC to pH 6 (mol/kg)	0.171
ANC to pH 4 (mol/kg)	0.750

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg
	Result	Limit of Detection	Result	Limit of Detection	
Metal Prep	0	<0	0	<0	-

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.45
Conductivity (µS/cm)	445
Temperature (°C)	16.50
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates
 05/04/2019 14:32:16



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : RSK Group Plc
 Client Reference : 602387

Location : City Block 9

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19010982	19010984	19010985	19010986	19010988	19010990	19010992	19010993	19010994	19010995
	BH211	BH211	BH211	BH211	BH211	BH211	BH211	BH211	BH211	BH211
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	8.00 - 9.00	9.00 - 10.00	10.50 - 12.00	12.00 - 13.00	13.00 - 14.00
	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID
ANC at pH4 and ANC at pH 6	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019
Anions by Kone (w)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Asbestos ID in Solid Samples	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
CEN 10:1 Leachate (1 Stage)	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019	02-Jan-2019	02-Jan-2019	27-Dec-2018	27-Dec-2018	27-Dec-2018
CEN Readings	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019
Coronene	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Dissolved Metals by ICP-MS	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019	08-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Dissolved Organic/Inorganic Carbon	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	08-Jan-2019	07-Jan-2019	03-Jan-2019	03-Jan-2019	05-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	11-Jan-2019	10-Jan-2019	08-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	11-Jan-2019	10-Jan-2019	08-Jan-2019
Fluoride	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	31-Dec-2018	31-Dec-2018	04-Jan-2019
GRO by GC-FID (S)	10-Jan-2019	09-Jan-2019	10-Jan-2019	15-Jan-2019	10-Jan-2019	09-Jan-2019	12-Jan-2019	10-Jan-2019	14-Jan-2019	14-Jan-2019
Hexavalent Chromium (s)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019
Loss on Ignition in soils	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	14-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	10-Jan-2019	31-Dec-2018
Mercury Dissolved	07-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019
Metals in solid samples by OES	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	04-Jan-2019	08-Jan-2019	04-Jan-2019
Mineral Oil	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	10-Jan-2019
PAH 16 & 17 Calc	09-Jan-2019	09-Jan-2019	11-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019
PAH by GCMS	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019
PCBs by GCMS	08-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	09-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	09-Jan-2019
pH	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	12-Jan-2019	15-Jan-2019	12-Jan-2019	15-Jan-2019	15-Jan-2019	12-Jan-2019	15-Jan-2019	12-Jan-2019	12-Jan-2019	12-Jan-2019
Phenols by HPLC (W)	11-Jan-2019	11-Jan-2019	12-Jan-2019	11-Jan-2019	10-Jan-2019	11-Jan-2019	12-Jan-2019	12-Jan-2019	12-Jan-2019	11-Jan-2019
Sample description	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	21-Dec-2018	21-Dec-2018	22-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	31-Dec-2018	31-Dec-2018	03-Jan-2019
Total Organic Carbon	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
TPH CWG GC (S)	10-Jan-2019	09-Jan-2019	10-Jan-2019	15-Jan-2019	10-Jan-2019	09-Jan-2019	12-Jan-2019	11-Jan-2019	14-Jan-2019	14-Jan-2019
VOC MS (S)	09-Jan-2019	09-Jan-2019	10-Jan-2019	14-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	11-Jan-2019	14-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19010996	19010998	19010999	19011000	19011001	19011003	19011004	19011005	19011007	19011008
	BH211	BH212	BH212	BH212	BH212	BH212	BH212	BH212	BH212	BH212
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	15.00 - 16.00	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.50 - 6.00	6.00 - 7.00	7.00 - 8.00	9.00 - 10.50	10.50 - 12.00
	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID
ANC at pH4 and ANC at pH 6	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
Anions by Kone (w)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	08-Jan-2019
Asbestos ID in Solid Samples	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019
CEN 10:1 Leachate (1 Stage)	27-Dec-2018	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019	09-Jan-2019	02-Jan-2019
CEN Readings	03-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	10-Jan-2019	05-Jan-2019
Coronene	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Dissolved Metals by ICP-MS	04-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	07-Jan-2019
Dissolved Organic/Inorganic Carbon	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	08-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Fluoride	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	09-Jan-2019	09-Jan-2019	11-Jan-2019	07-Jan-2019
GRO by GC-FID (S)	14-Jan-2019	10-Jan-2019	15-Jan-2019	10-Jan-2019	10-Jan-2019	15-Jan-2019	12-Jan-2019	10-Jan-2019	09-Jan-2019	10-Jan-2019
Hexavalent Chromium (s)	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	09-Jan-2019
Loss on Ignition in soils	31-Dec-2018	14-Jan-2019	14-Jan-2019	14-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	31-Dec-2018	09-Jan-2019	08-Jan-2019
Mercury Dissolved	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	11-Jan-2019	09-Jan-2019
Metals in solid samples by OES	04-Jan-2019	03-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019	03-Jan-2019	08-Jan-2019	09-Jan-2019
Mineral Oil	08-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019
PAH 16 & 17 Calc	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	11-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
PAH by GCMS	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
PCBs by GCMS	09-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	09-Jan-2019	07-Jan-2019	08-Jan-2019
pH	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	12-Jan-2019	15-Jan-2019	12-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	12-Jan-2019	12-Jan-2019	15-Jan-2019
Phenols by HPLC (W)	12-Jan-2019	11-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019	12-Jan-2019	11-Jan-2019	14-Jan-2019	12-Jan-2019
Sample description	21-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018
Total Dissolved Solids	03-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	07-Jan-2019
Total Organic Carbon	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	03-Jan-2019
TPH CWG GC (S)	14-Jan-2019	10-Jan-2019	15-Jan-2019	10-Jan-2019	10-Jan-2019	15-Jan-2019	12-Jan-2019	10-Jan-2019	09-Jan-2019	10-Jan-2019
VOC MS (S)	11-Jan-2019	10-Jan-2019	14-Jan-2019	09-Jan-2019	10-Jan-2019	14-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	19011011	19011012	19011014	19011016	19011018	19011019	19011020	19011022	19011023	19011024
	BH212	BH212	BH212	BH212	BH213	BH213	BH213	BH213	BH213	BH213
	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	0.00 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID
ANC at pH4 and ANC at pH 6	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Anions by Kone (w)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019
Asbestos ID in Solid Samples	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019
CEN 10:1 Leachate (1 Stage)	02-Jan-2019	02-Jan-2019	27-Dec-2018	27-Dec-2018	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019
CEN Readings	05-Jan-2019	05-Jan-2019	03-Jan-2019	03-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019
Coronene	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019
Dissolved Metals by ICP-MS	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019
Dissolved Organic/Inorganic Carbon	08-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019
EPH CWG (Aliphatic) GC (S)	10-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	11-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019
EPH CWG (Aromatic) GC (S)	10-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	11-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019
Fluoride	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	09-Jan-2019
GRO by GC-FID (S)	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	12-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	15-Jan-2019	10-Jan-2019
Hexavalent Chromium (s)	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Loss on Ignition in soils	10-Jan-2019	08-Jan-2019	31-Dec-2018	08-Jan-2019	09-Jan-2019	14-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019
Mercury Dissolved	08-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019
Metals in solid samples by OES	08-Jan-2019	08-Jan-2019	04-Jan-2019	04-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019
Mineral Oil	09-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019
PAH 16 & 17 Calc	09-Jan-2019	11-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019
PAH by GCMS	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	08-Jan-2019
PCBs by GCMS	07-Jan-2019	07-Jan-2019	09-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	04-Jan-2019
pH	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	12-Jan-2019	12-Jan-2019	11-Jan-2019	11-Jan-2019	15-Jan-2019	15-Jan-2019	14-Jan-2019	15-Jan-2019	14-Jan-2019	15-Jan-2019
Phenols by HPLC (W)	11-Jan-2019	11-Jan-2019	12-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019	10-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018	22-Dec-2018
Total Dissolved Solids	07-Jan-2019	07-Jan-2019	03-Jan-2019	03-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	09-Jan-2019
Total Organic Carbon	08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
TPH CWG GC (S)	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	12-Jan-2019	10-Jan-2019	11-Jan-2019	10-Jan-2019	15-Jan-2019	10-Jan-2019
VOC MS (S)	11-Jan-2019	11-Jan-2019	11-Jan-2019	14-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	14-Jan-2019	10-Jan-2019

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	19011025	19011028	19011029	19011030	19011031	19011033
	BH213	BH213	BH213	BH213	BH213	BH213
	5.00 - 6.00	9.00 - 10.00	10.00 - 12.00	12.50 - 14.00	15.00 - 16.00	16.00 - 17.00
	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID	MISC_SOLID
ANC at pH4 and ANC at pH 6	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Anions by Kone (w)	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Asbestos ID in Solid Samples	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
CEN 10:1 Leachate (1 Stage)	03-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
CEN Readings	08-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
Coronene	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019
Dissolved Metals by ICP-MS	09-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Dissolved Organic/Inorganic Carbon	09-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
EPH CWG (Aliphatic) GC (S)	08-Jan-2019	07-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019
EPH CWG (Aromatic) GC (S)	08-Jan-2019	07-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019
Fluoride	09-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
GRO by GC-FID (S)	10-Jan-2019	10-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
Hexavalent Chromium (s)	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019
Loss on Ignition in soils	09-Jan-2019	09-Jan-2019	09-Jan-2019	04-Jan-2019	14-Jan-2019	04-Jan-2019
Mercury Dissolved	10-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
Metals in solid samples by OES	04-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019
Mineral Oil	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019
PAH 16 & 17 Calc	09-Jan-2019	10-Jan-2019	11-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019
PAH by GCMS	09-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019
PCBs by GCMS	09-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
pH	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	12-Jan-2019	12-Jan-2019	12-Jan-2019	12-Jan-2019	11-Jan-2019	12-Jan-2019
Phenols by HPLC (W)	10-Jan-2019	12-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019	12-Jan-2019
Sample description	22-Dec-2018	22-Dec-2018	22-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	09-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Total Organic Carbon	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
TPH CWG GC (S)	10-Jan-2019	10-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
VOC MS (S)	10-Jan-2019	09-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019



Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

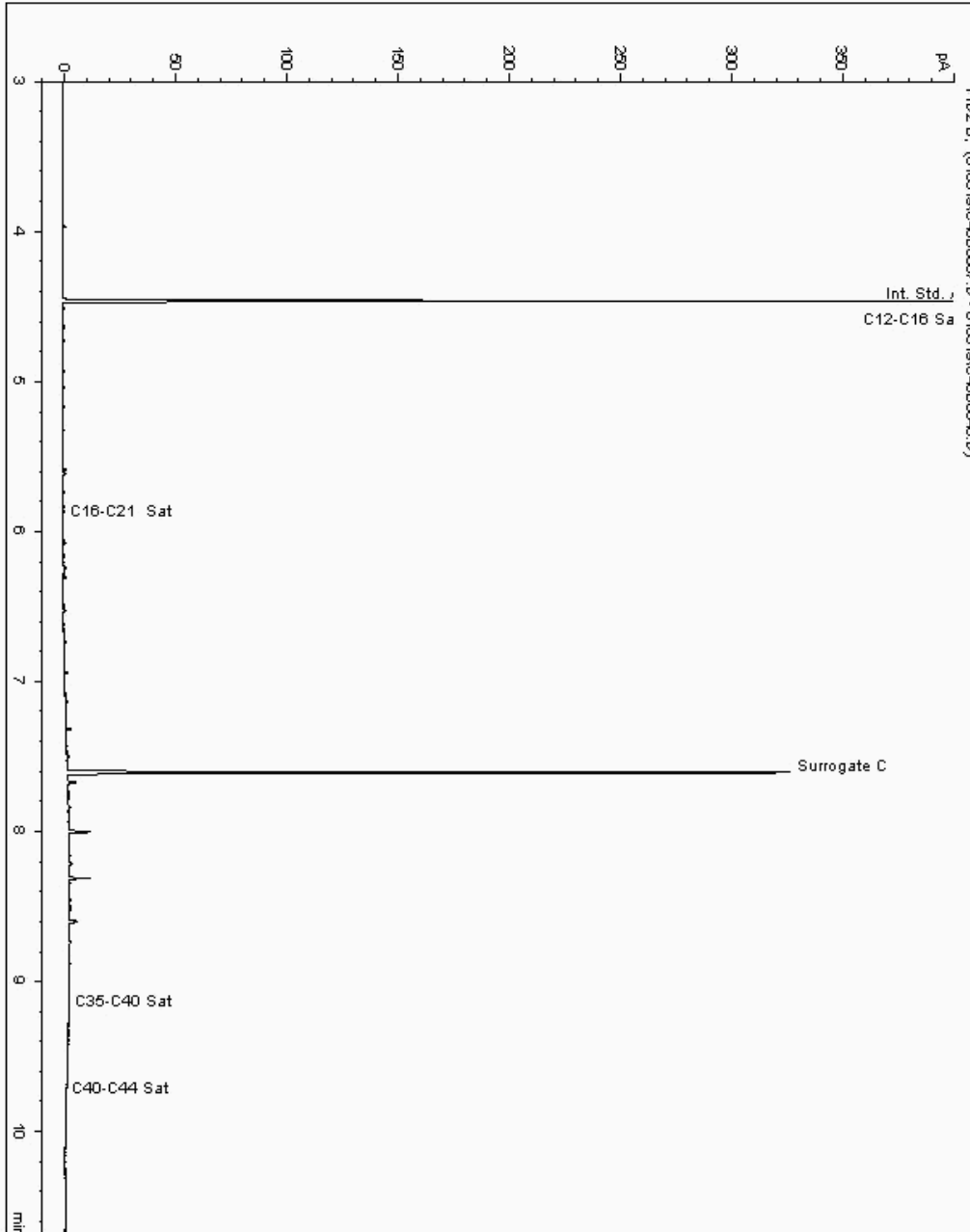
Analysis: EPH CWG (Aliphatic) GC (S)
19021985

Sample No :
Sample ID : BH211

19,021,985Depth :4.50 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874768-
Date Acquired : 07/01/2019 22:24:34 PM
Units : ppb
Dilution: BH211[4.50 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

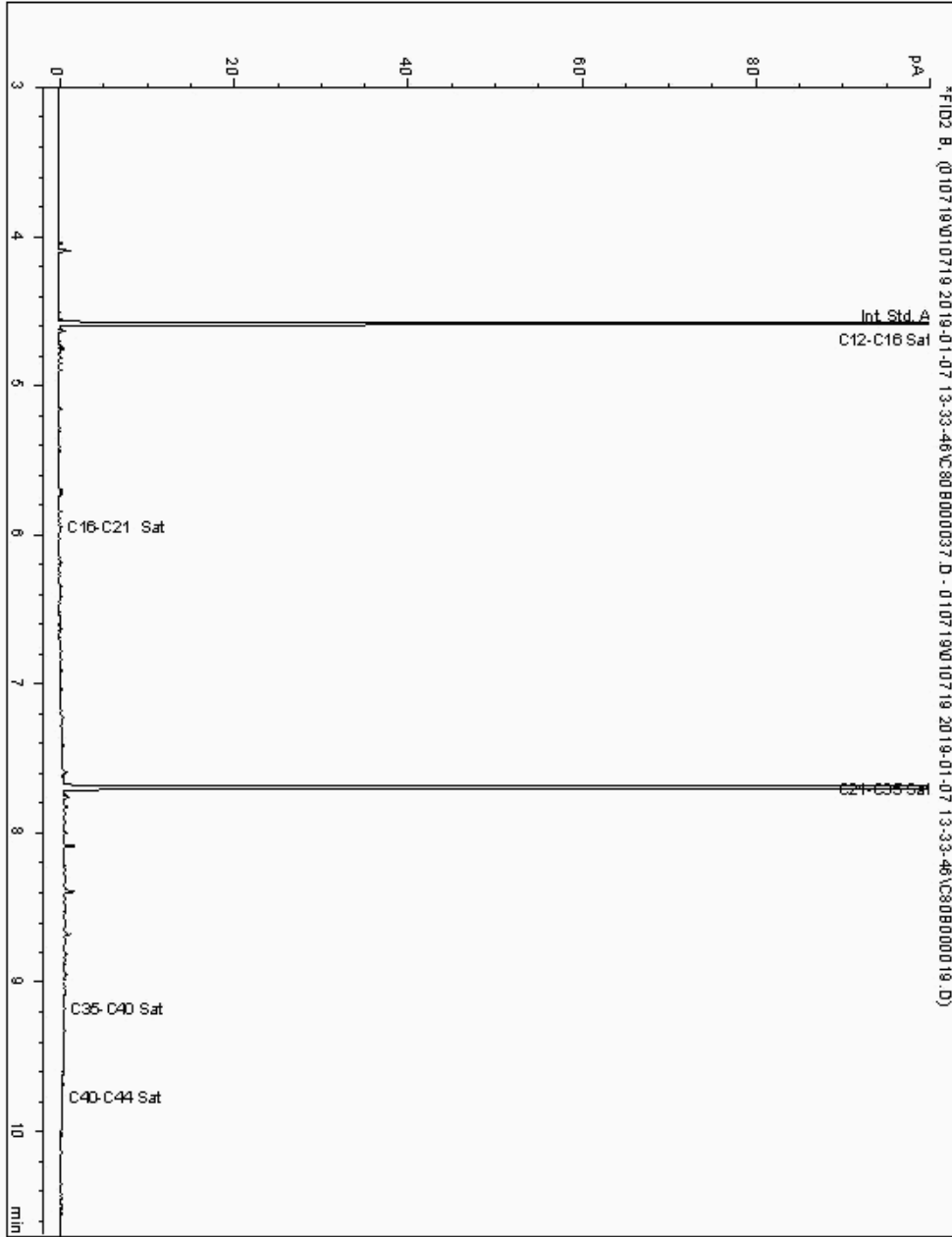
Analysis: EPH CWG (Aliphatic) GC (S)
19022329

Sample No :
Sample ID : BH211

19,022,329Depth :8.00 - 9.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17874791-
Date Acquired : 08/01/19 00:40:06
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

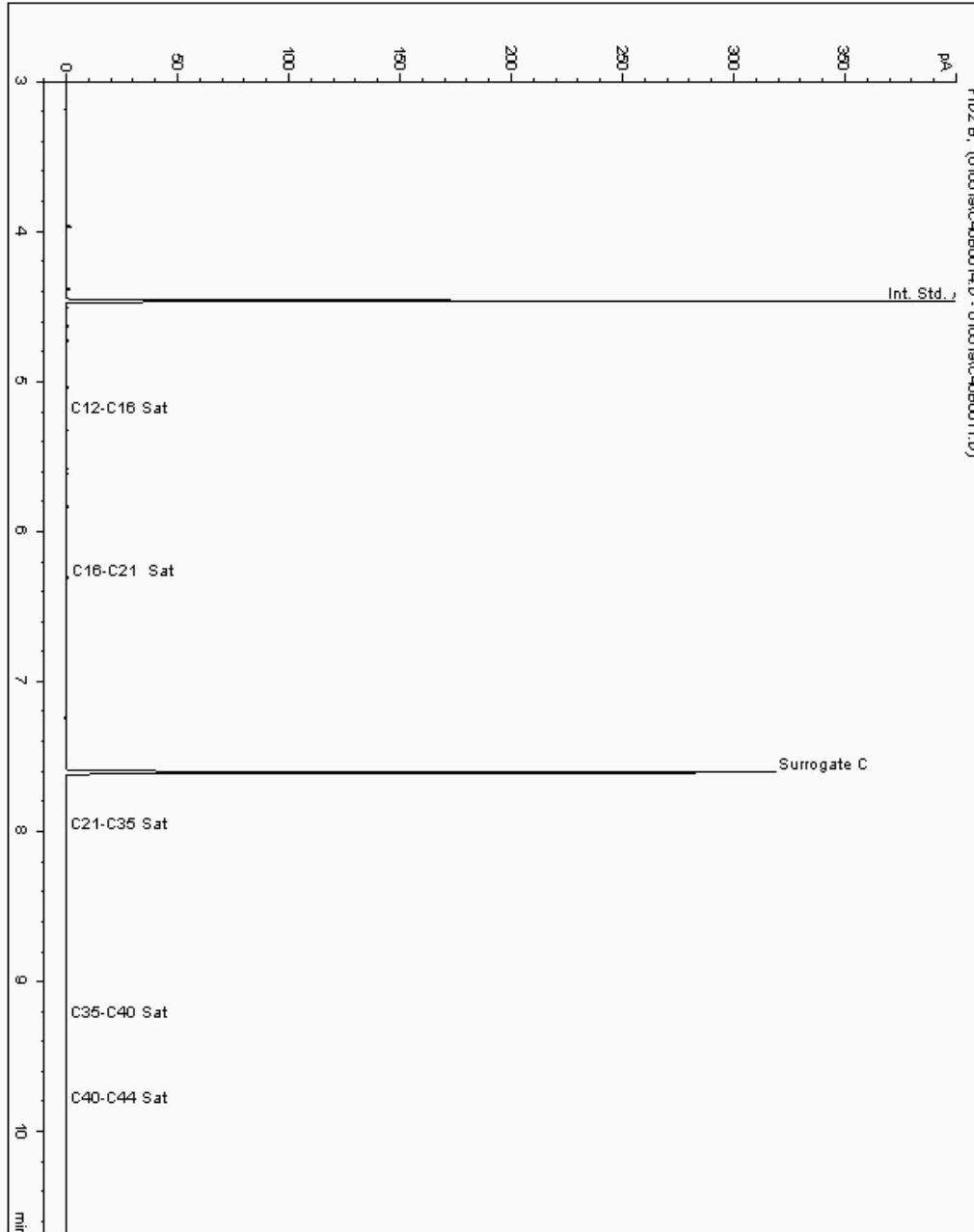
Analysis: EPH CWG (Aliphatic) GC (S)
19022859

Sample No :
Sample ID : BH212

19,022,859Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875312-
Date Acquired : 05/01/2019 13:59:39 PM
Units : ppb
Dilution: BH212[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

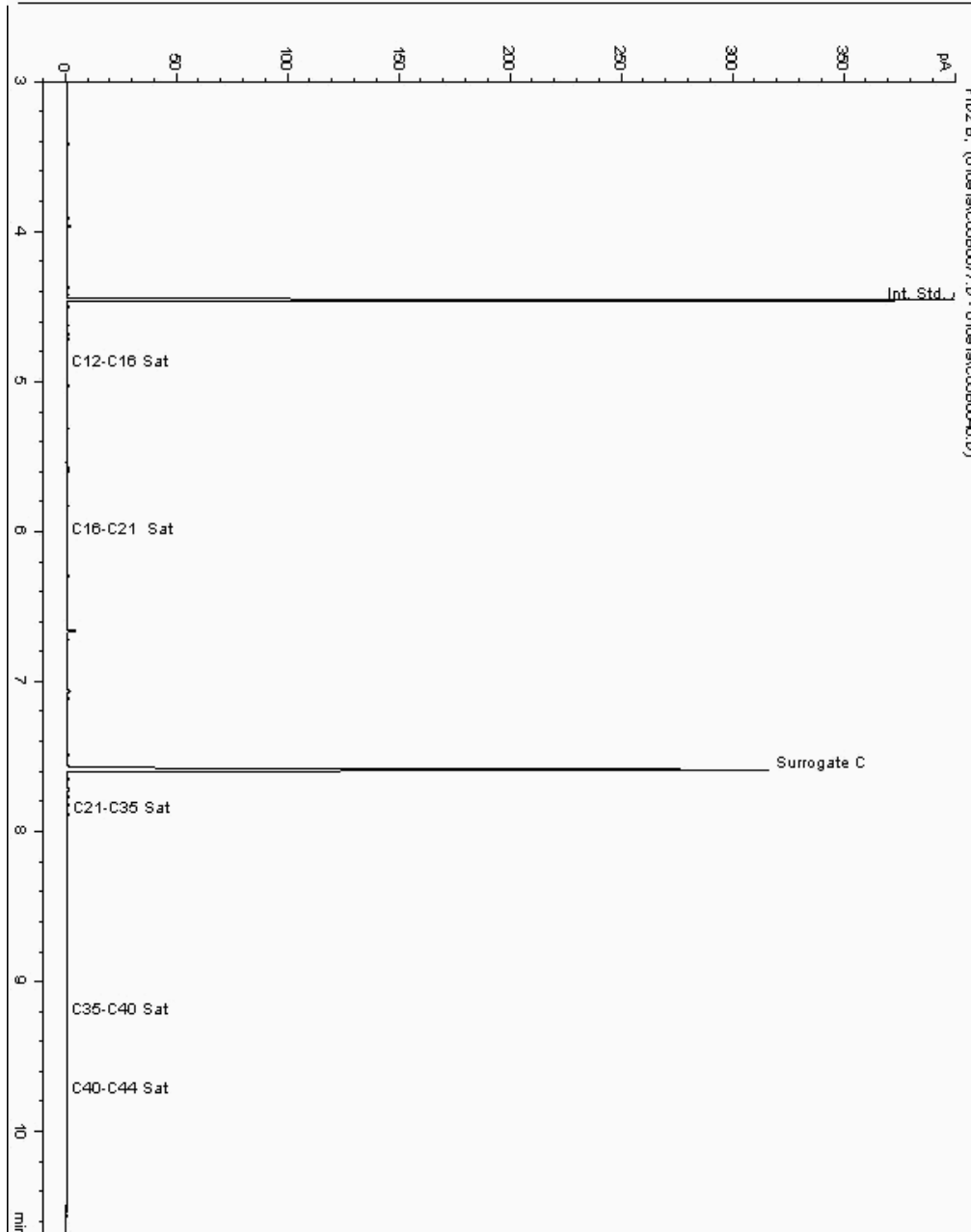
Analysis: EPH CWG (Aliphatic) GC (S)
19022920

Sample No :
Sample ID : BH211

19,022,920Depth : 10.50 - 12.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17874858-
Date Acquired : 10/01/2019 10:23:53 PM
Units : ppb
Dilution: BH211[10.50 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

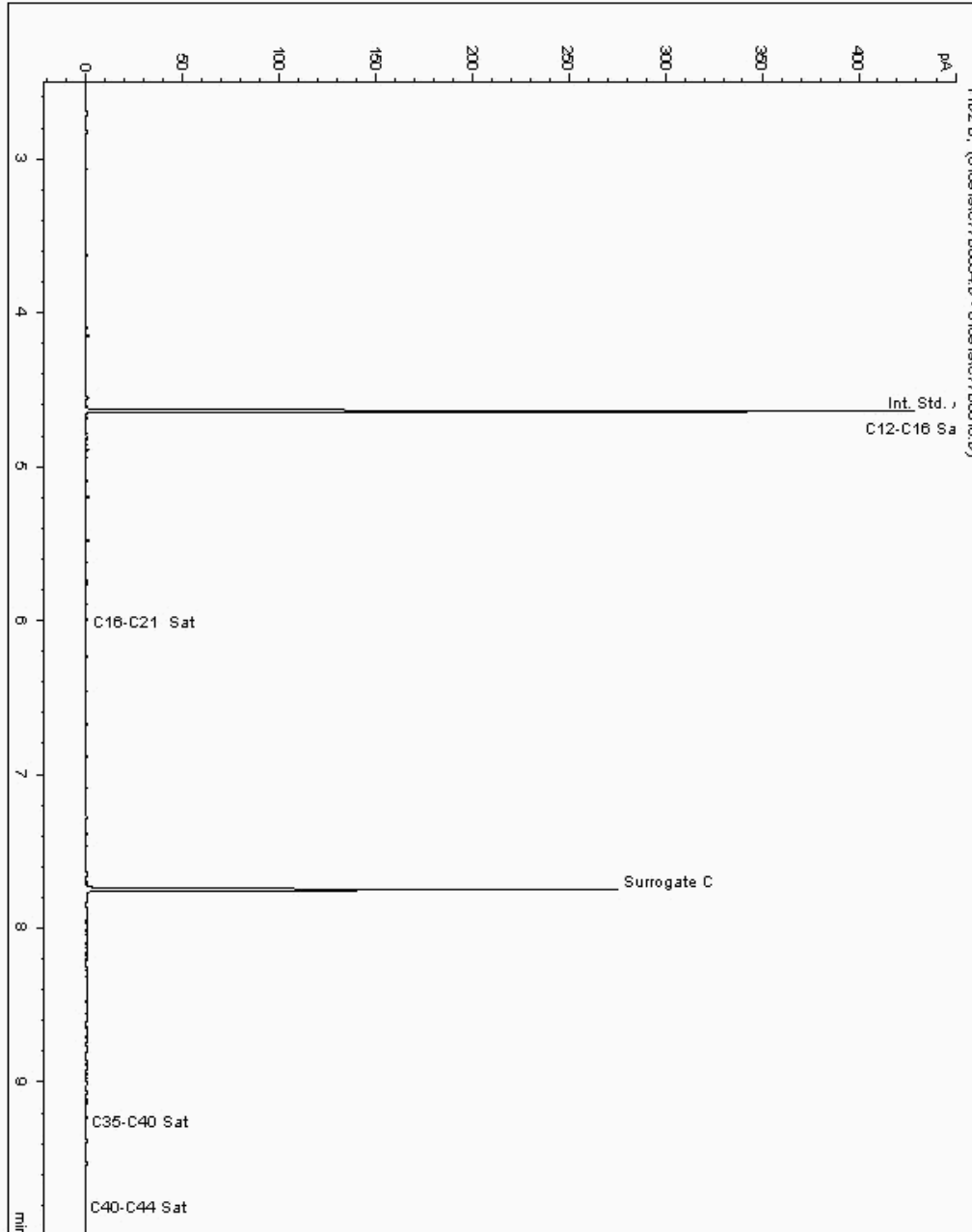
Analysis: EPH CWG (Aliphatic) GC (S)
19023048

Sample No :
Sample ID : BH211

19,023,048 Depth : 12.00 - 13.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875873-
Date Acquired : 1/9/2019 5:00:29 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.050





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

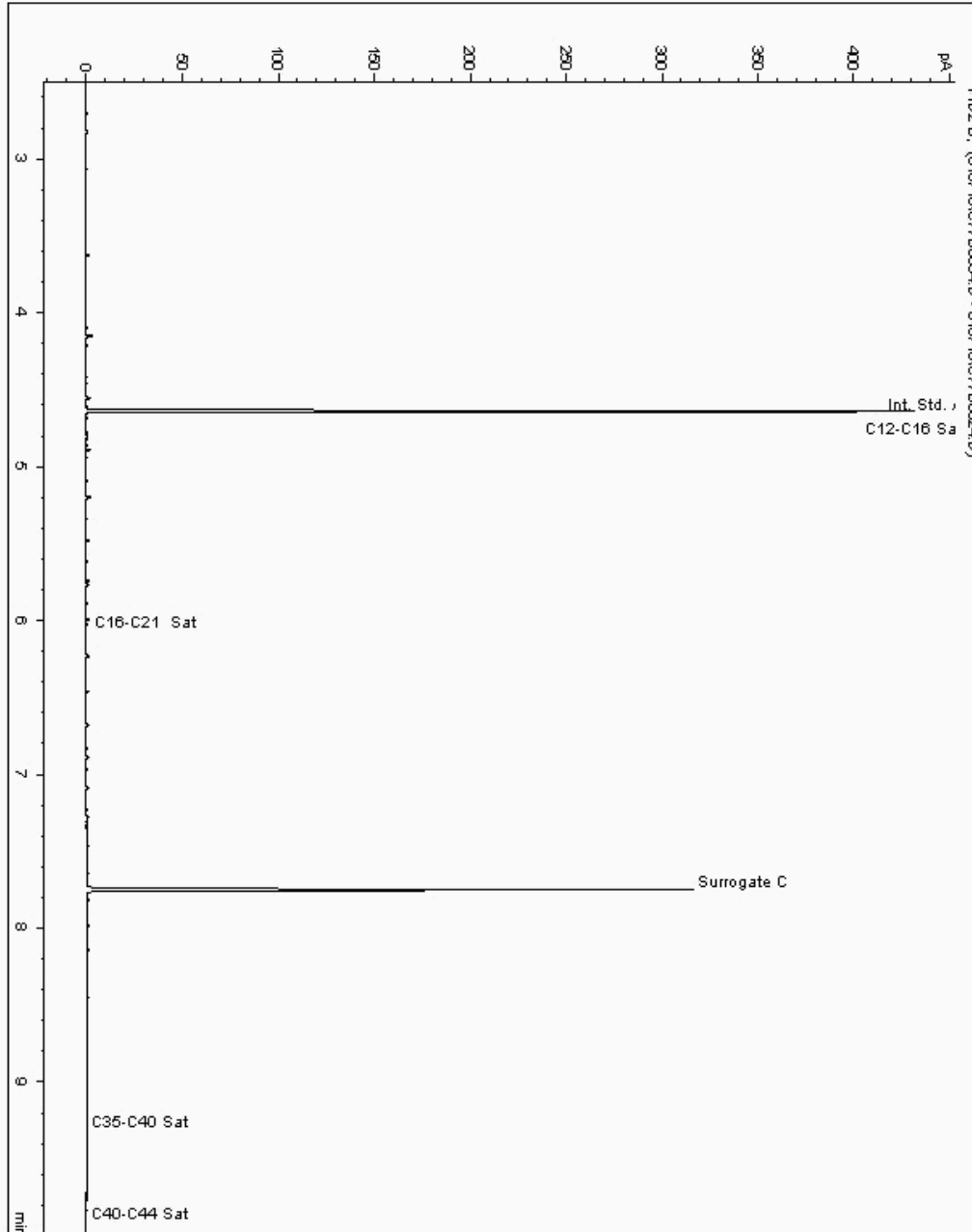
Analysis: EPH CWG (Aliphatic) GC (S)
19023103

Sample No :
Sample ID : BH211

19,023,103Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17874885-
Date Acquired : 1/7/2019 9:40:20 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

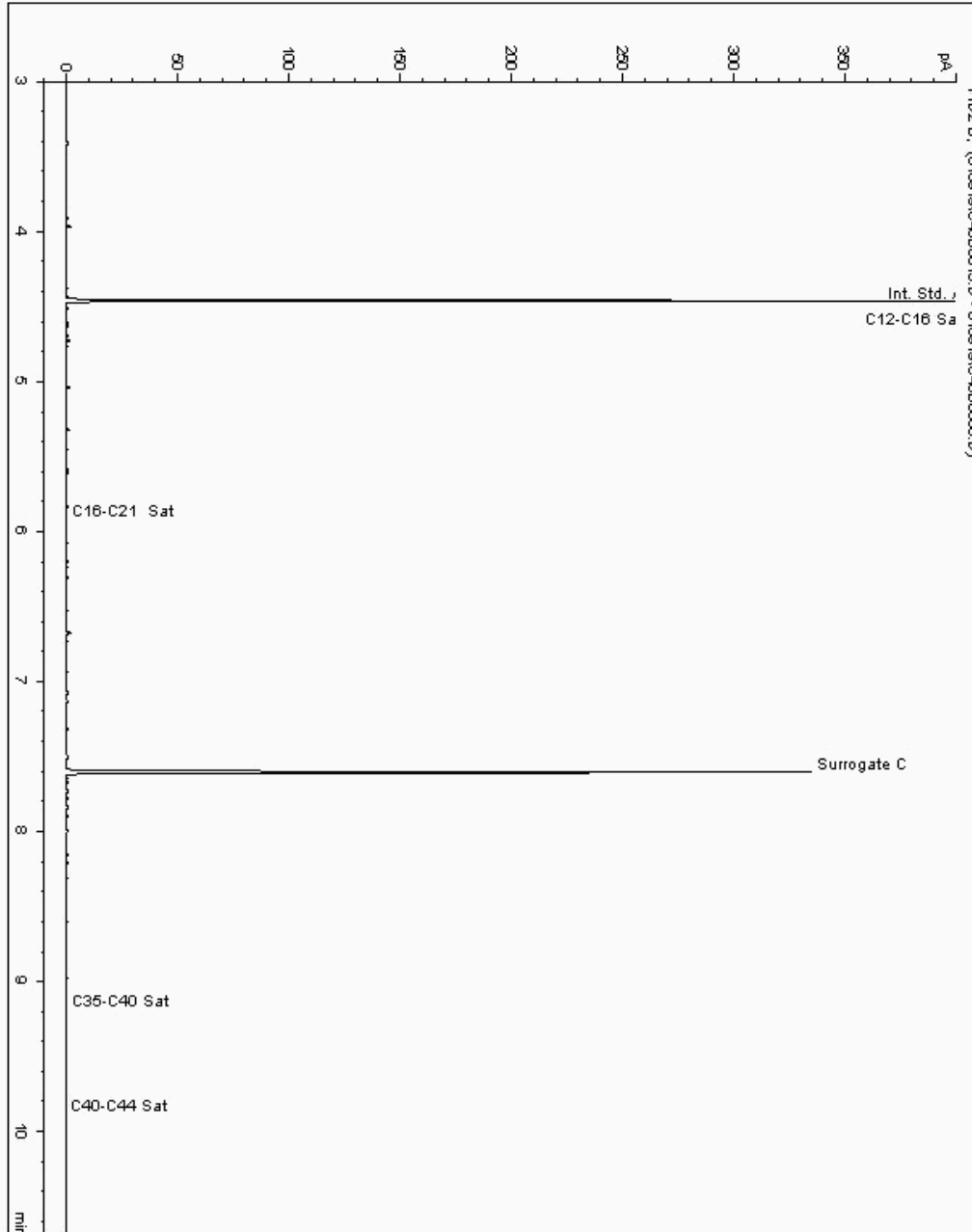
Analysis: EPH CWG (Aliphatic) GC (S)
19023219

Sample No :
Sample ID : BH212

19,023,219 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875284-
Date Acquired : 09/01/2019 18:54:10 PM
Units : ppb
Dilution: BH212[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

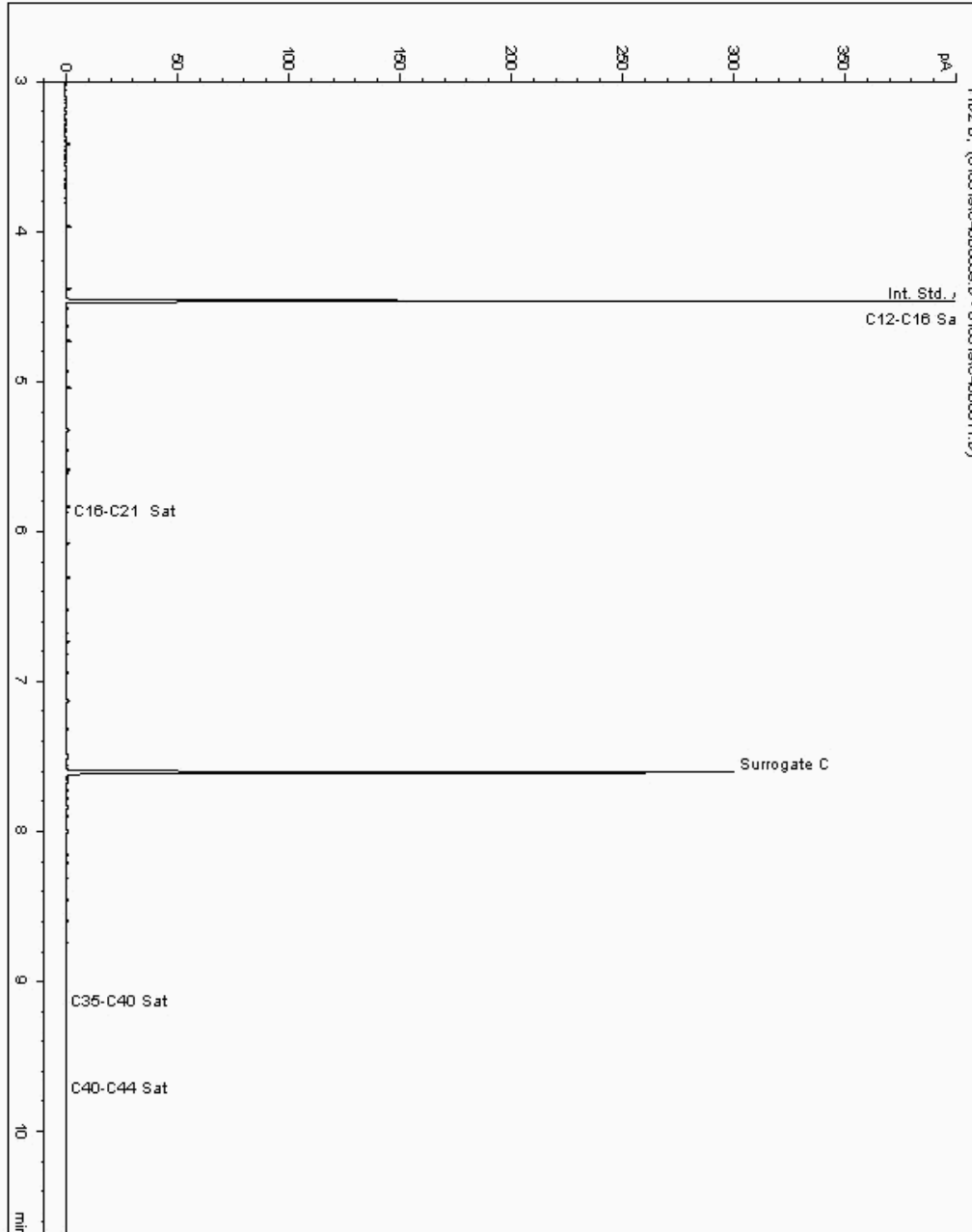
Analysis: EPH CWG (Aliphatic) GC (S)
19023264

Sample No :
Sample ID : BH212

19,023,264Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875342-
Date Acquired : 05/01/2019 21:06:54 PM
Units : ppb
Dilution: BH212[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

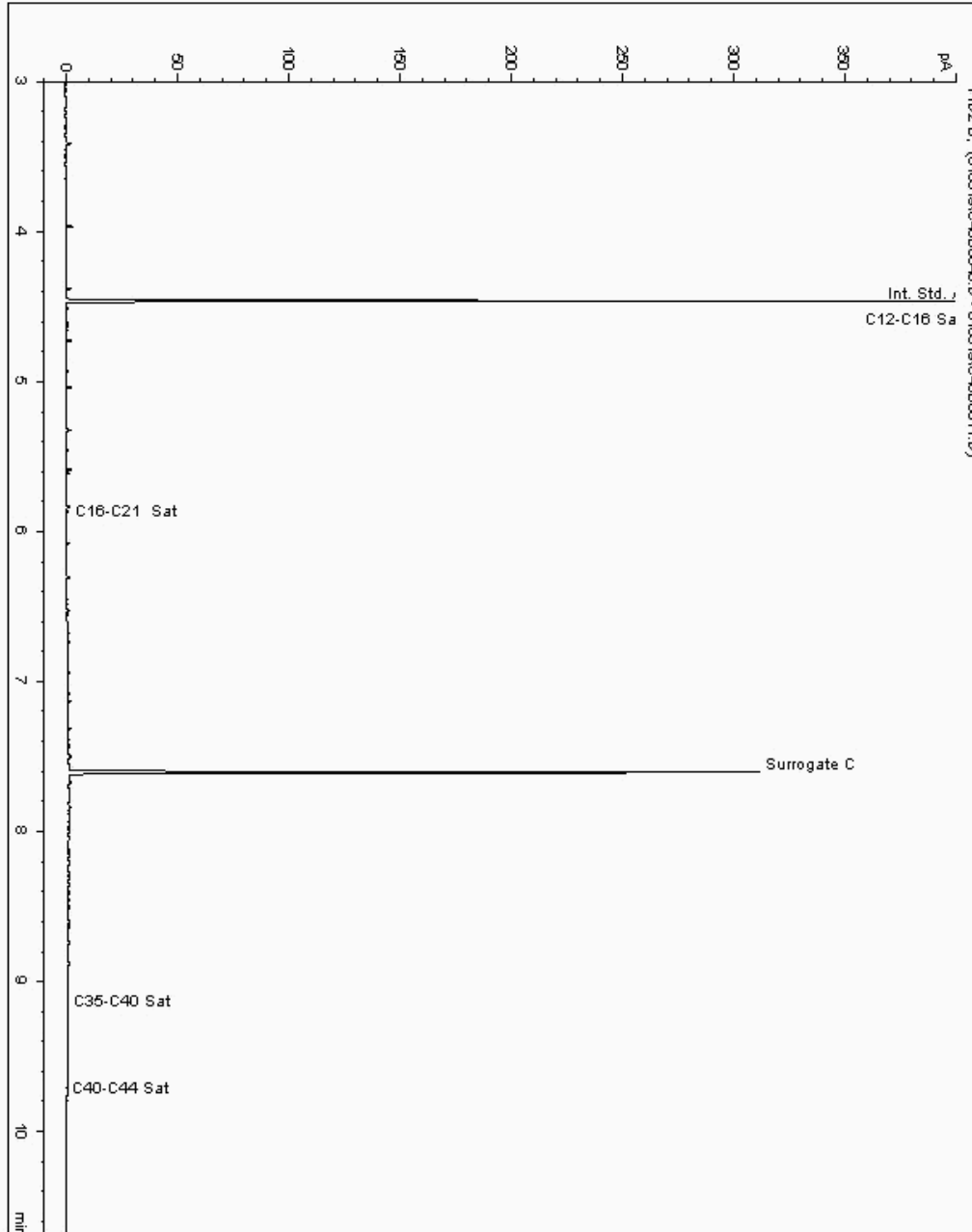
Analysis: EPH CWG (Aliphatic) GC (S)
19023304

Sample No :
Sample ID : BH212

19,023,304Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875377-
Date Acquired : 05/01/2019 21:26:47 PM
Units : ppb
Dilution: BH212[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

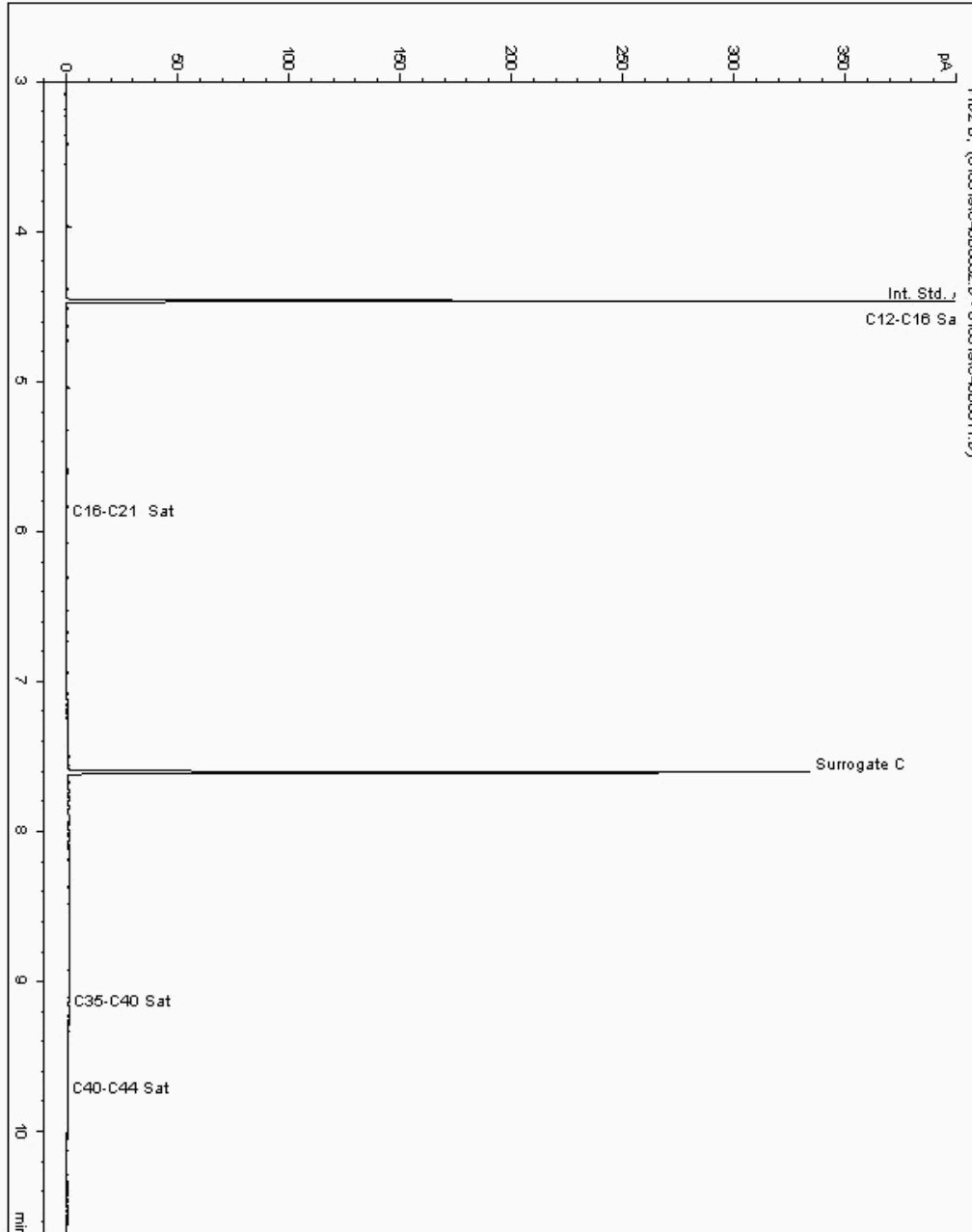
Analysis: EPH CWG (Aliphatic) GC (S)
19023426

Sample No :
Sample ID : BH211

19,023,426Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874910-
Date Acquired : 05/01/2019 19:10:48 PM
Units : ppb
Dilution: BH211[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

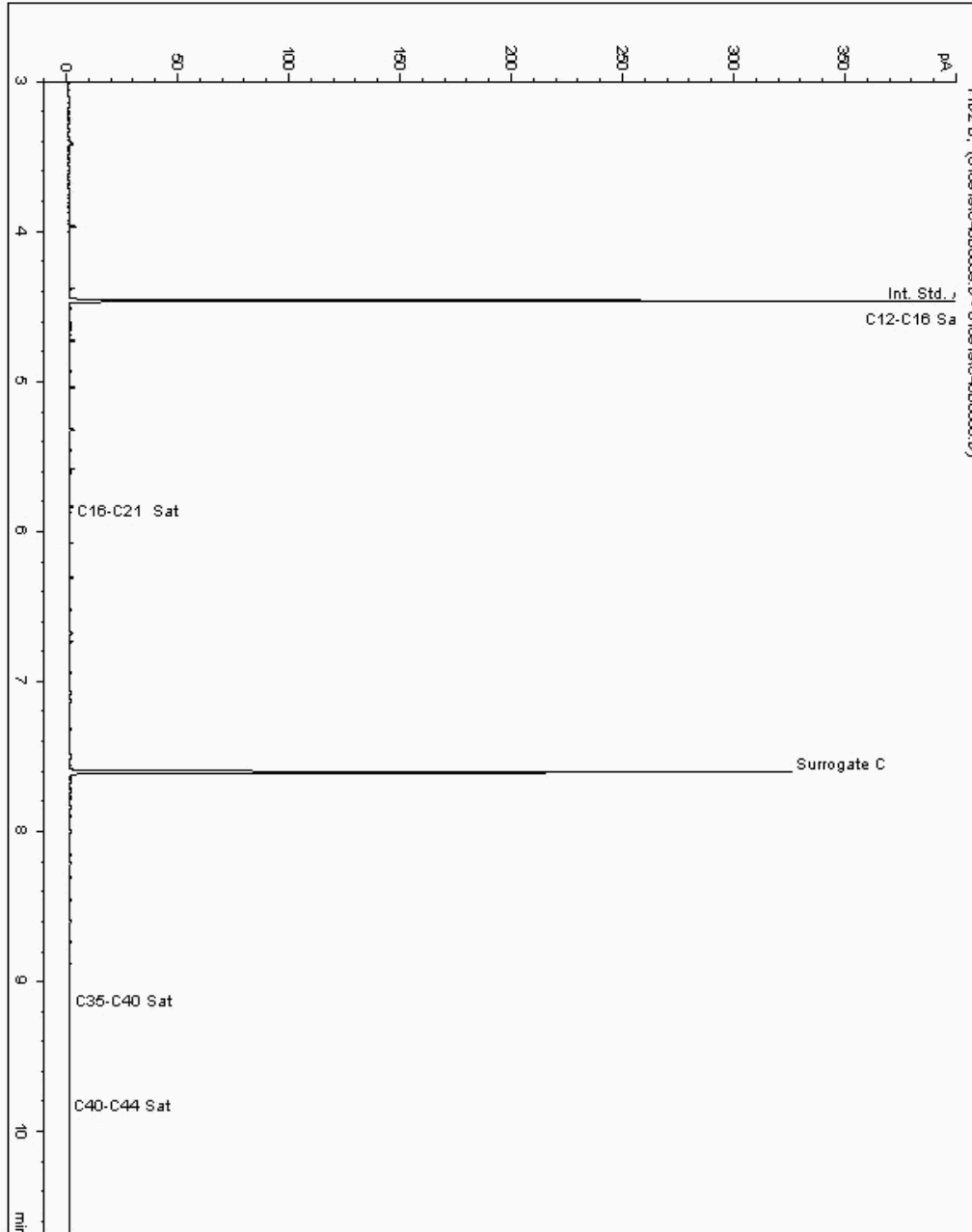
Analysis: EPH CWG (Aliphatic) GC (S)
19023589

Sample No :
Sample ID : BH213

19,023,589Depth : 12.50 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875751-
Date Acquired : 10/01/2019 07:39:14 PM
Units : ppb
Dilution: BH213[12.50 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

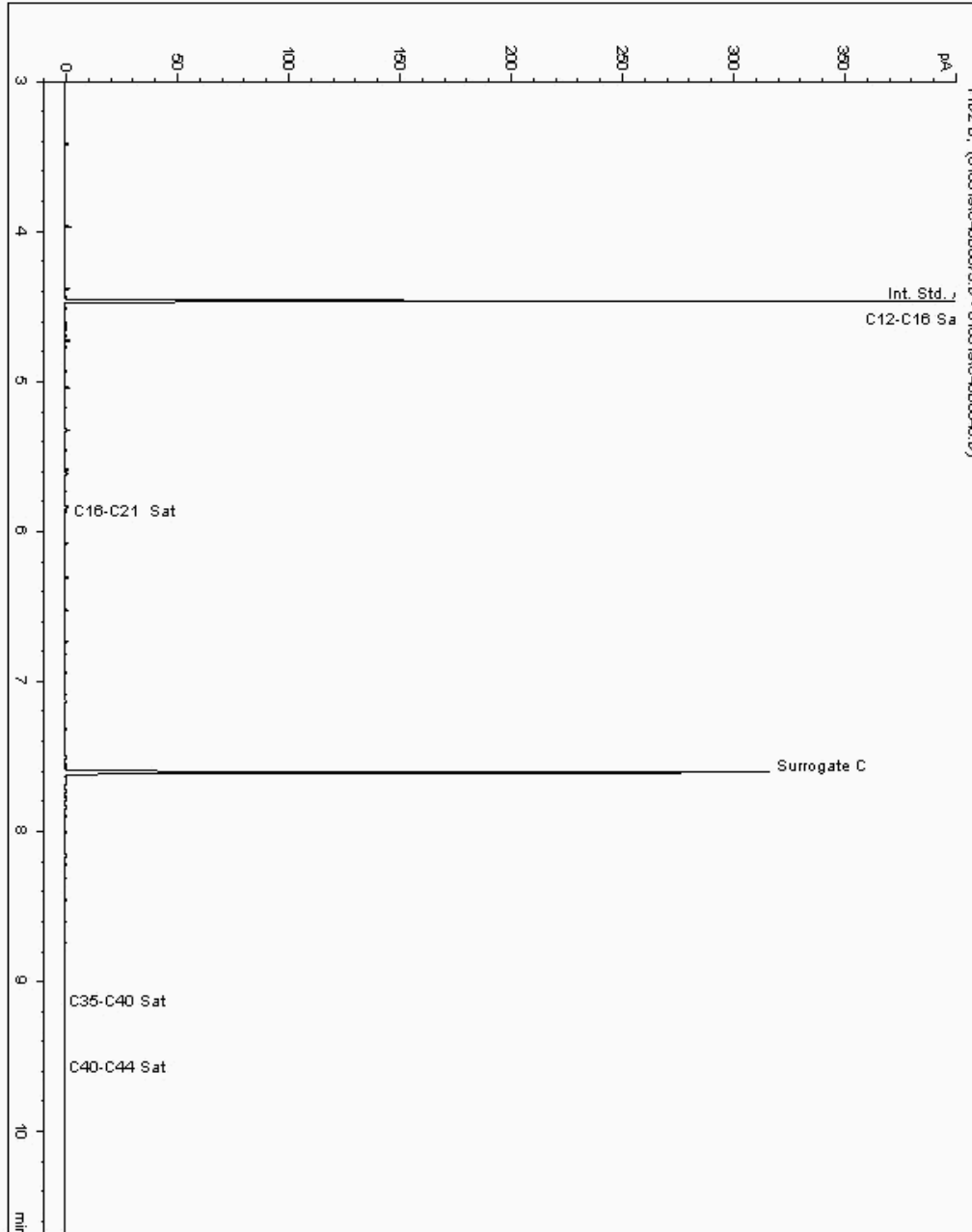
Analysis: EPH CWG (Aliphatic) GC (S)
19023652

Sample No :
Sample ID : BH213

19,023,652Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875832-
Date Acquired : 08/01/2019 00:34:16 PM
Units : ppb
Dilution: BH213[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

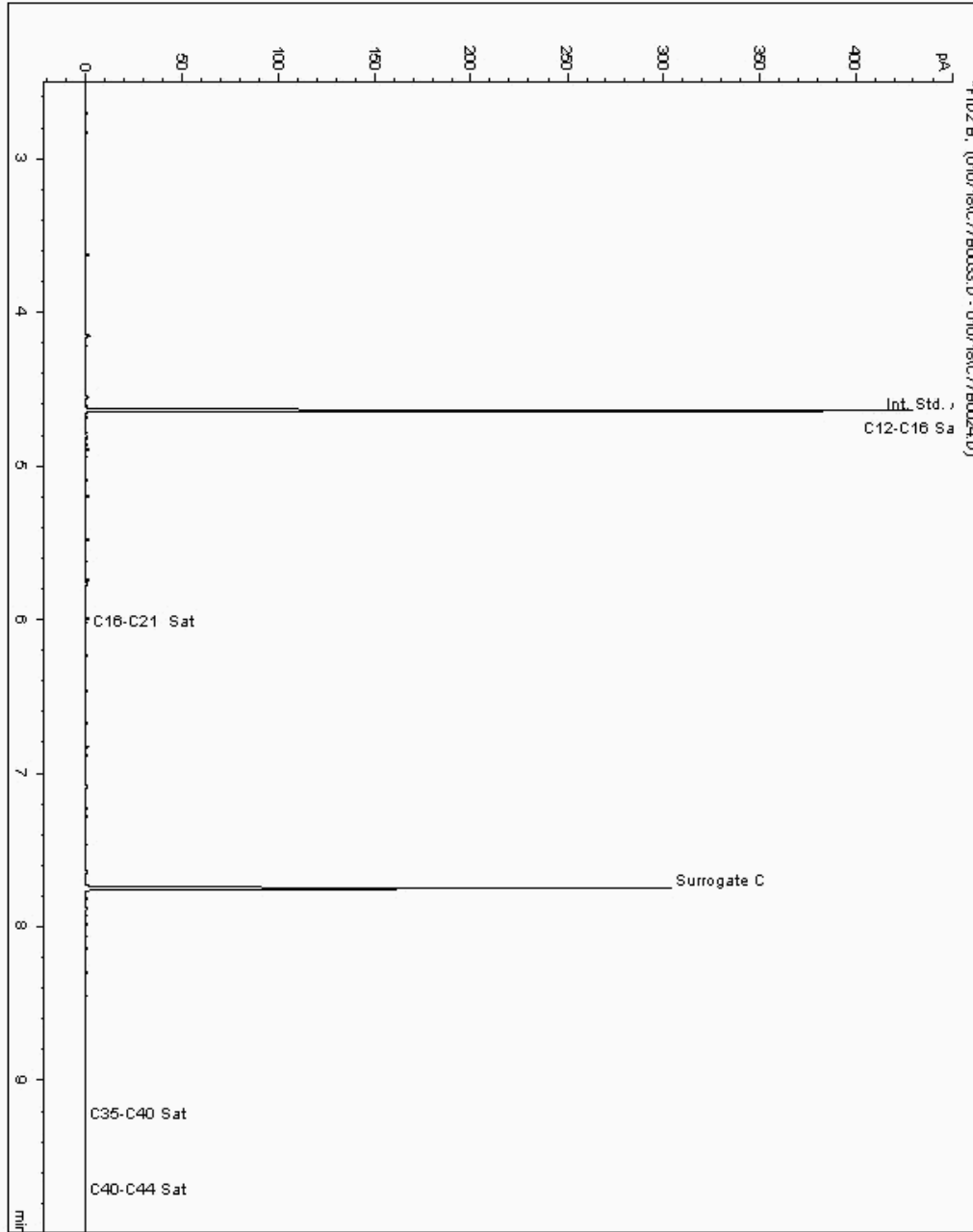
Analysis: EPH CWG (Aliphatic) GC (S)
19023706

Sample No :
Sample ID : BH213

19,023,706 Depth : 15.00 - 16.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875788-
Date Acquired : 1/7/2019 9:20:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

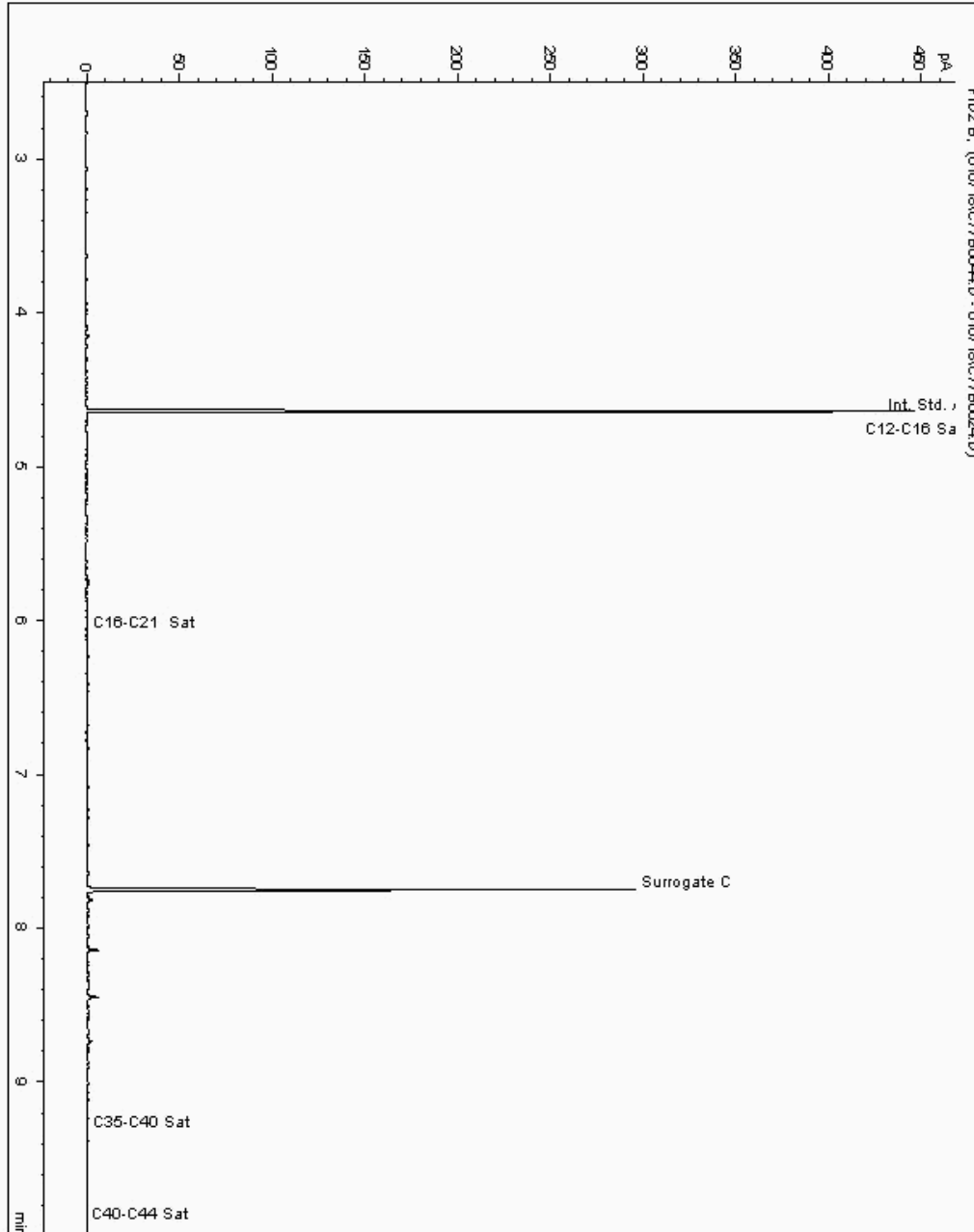
Analysis: EPH CWG (Aliphatic) GC (S)
19027467

Sample No :
Sample ID : BH213

19,027,467Depth :5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875631-
Date Acquired : 1/8/2019 12:35:53 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

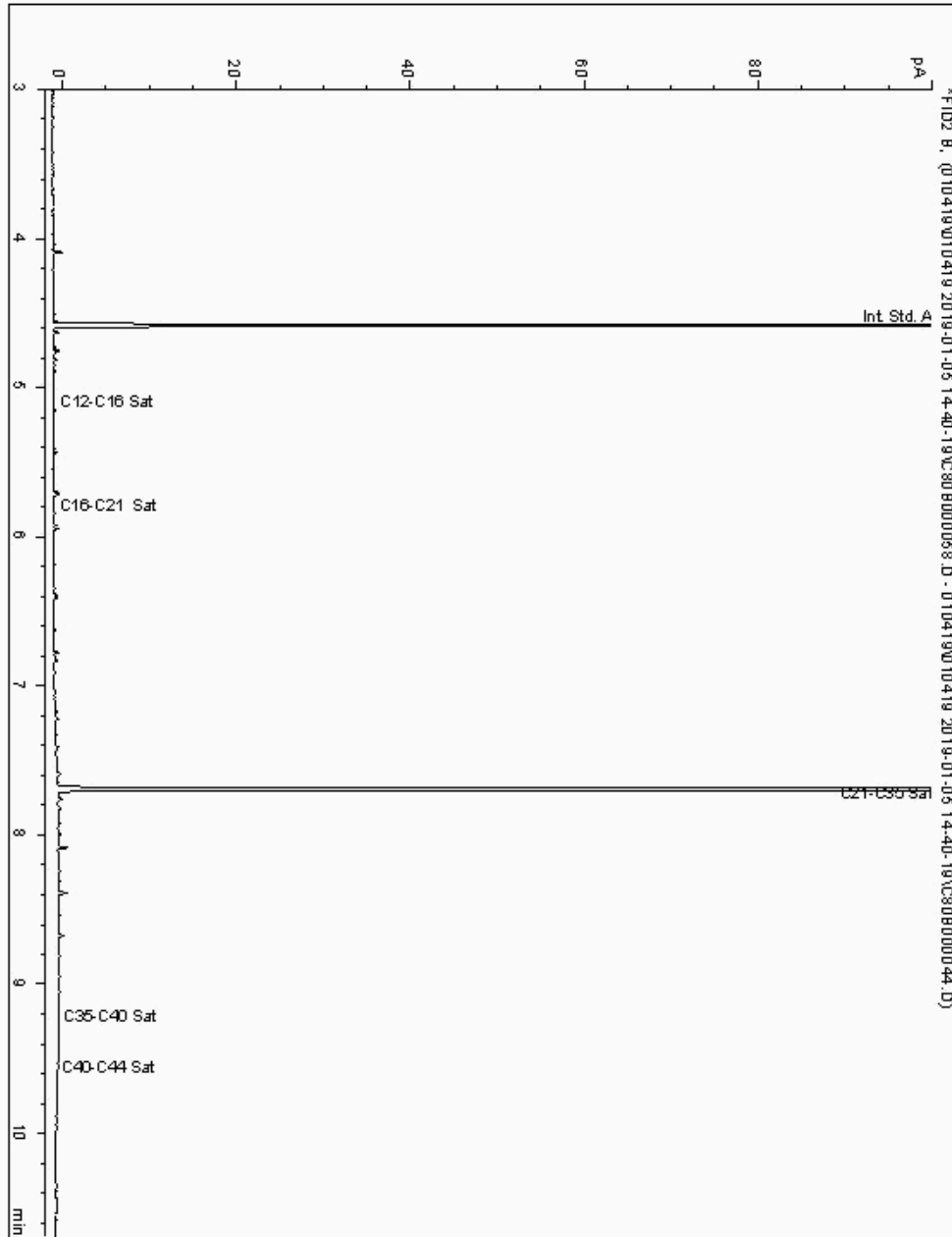
Analysis: EPH CWG (Aliphatic) GC (S)
19027526

Sample No :
Sample ID : BH212

19,027,526Depth : 7.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875199-
Date Acquired : 05/01/19 20:03:30
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

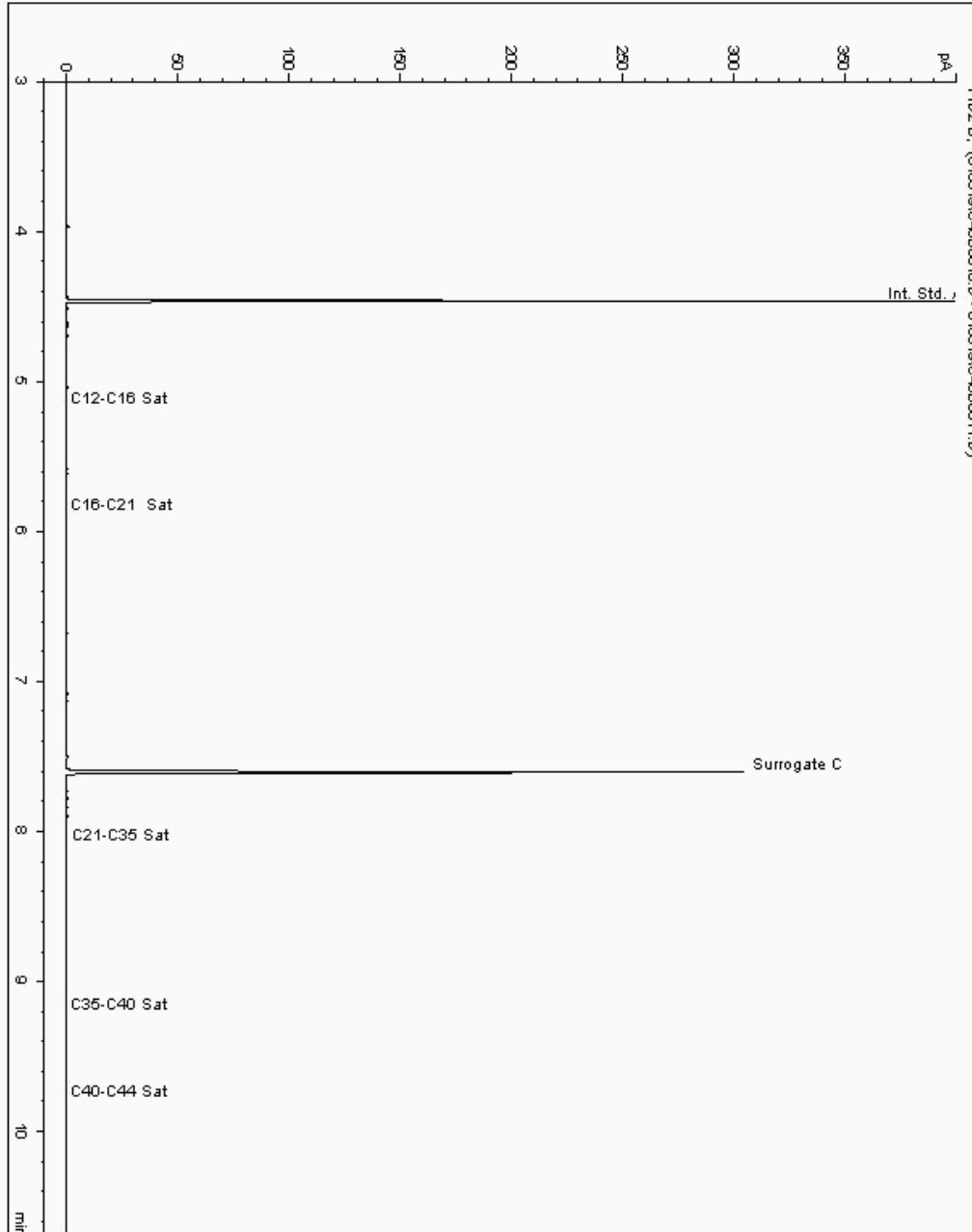
Analysis: EPH CWG (Aliphatic) GC (S)
19027611

Sample No :
Sample ID : BH212

19,027,611 Depth : 10.50 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875256-
Date Acquired : 05/01/2019 15:10:58 PM
Units : ppb
Dilution: BH212[10.50 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

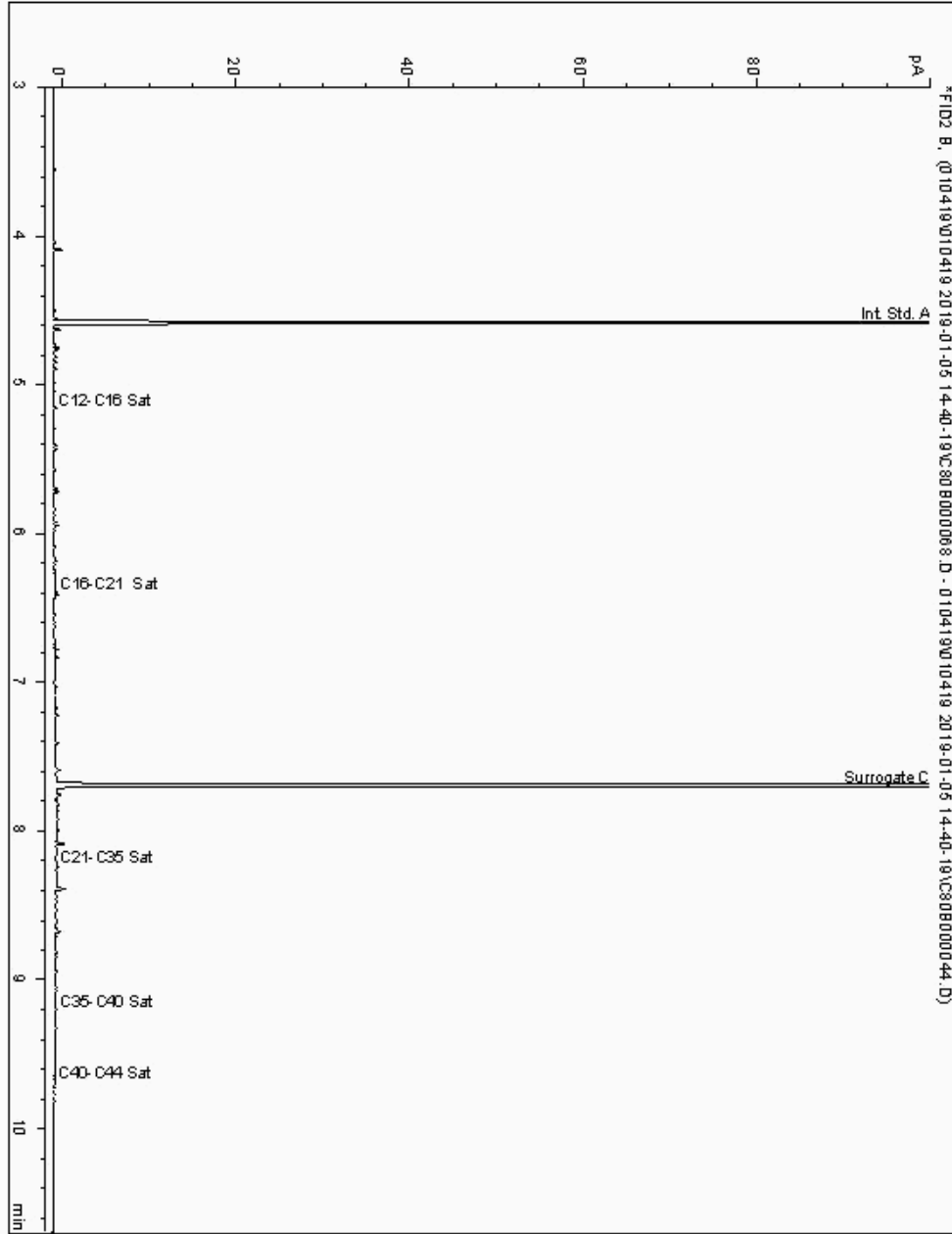
Analysis: EPH CWG (Aliphatic) GC (S)
19027648

Sample No :
Sample ID : BH213

19,027,648 Depth : 9.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875677-
Date Acquired : 05/01/19 22:57:35
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

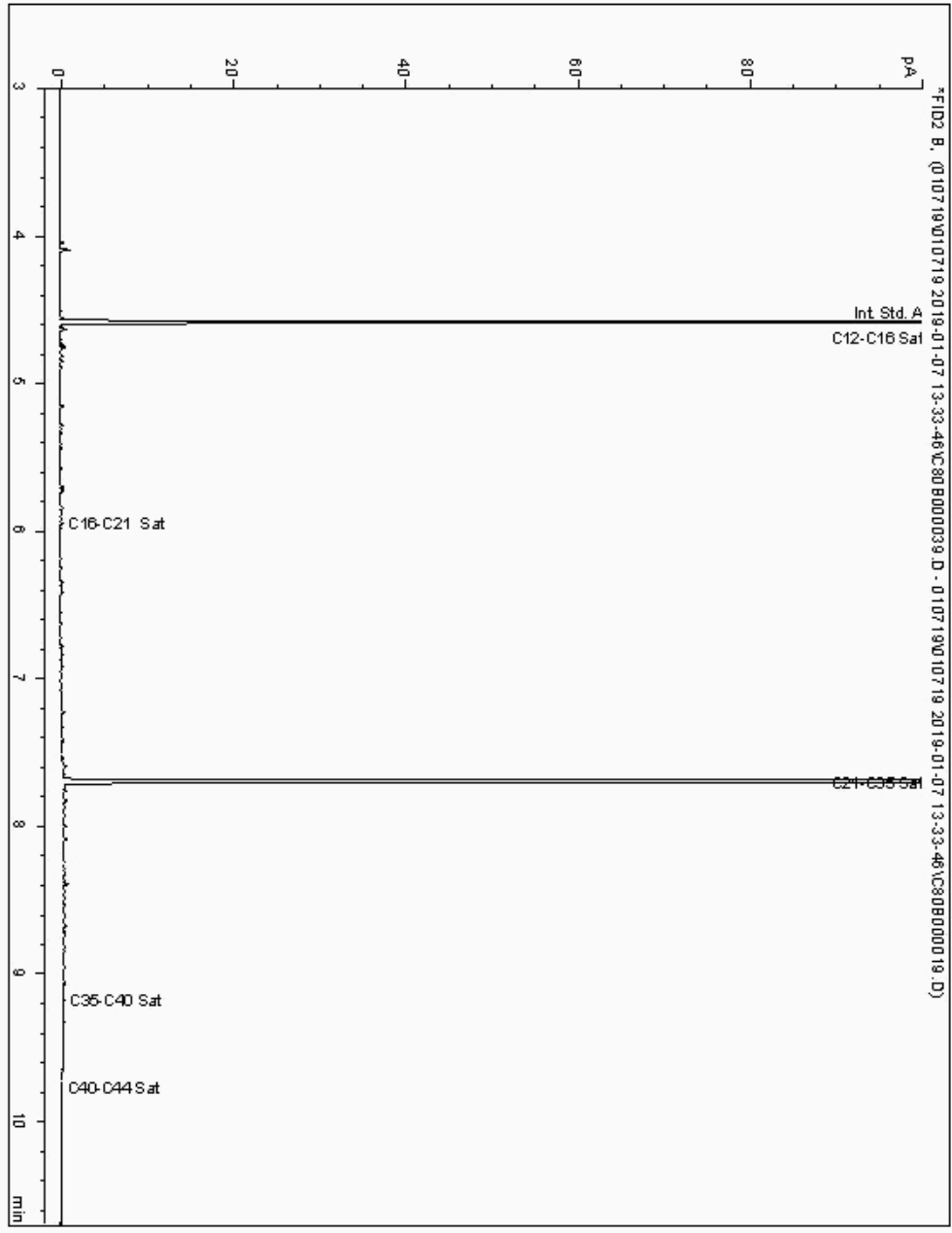
Analysis: EPH CWG (Aliphatic) GC (S)
19027662

Sample No :
Sample ID : BH211

19,027,662Depth :9.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17874818-
Date Acquired : 08/01/19 01:20:17
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

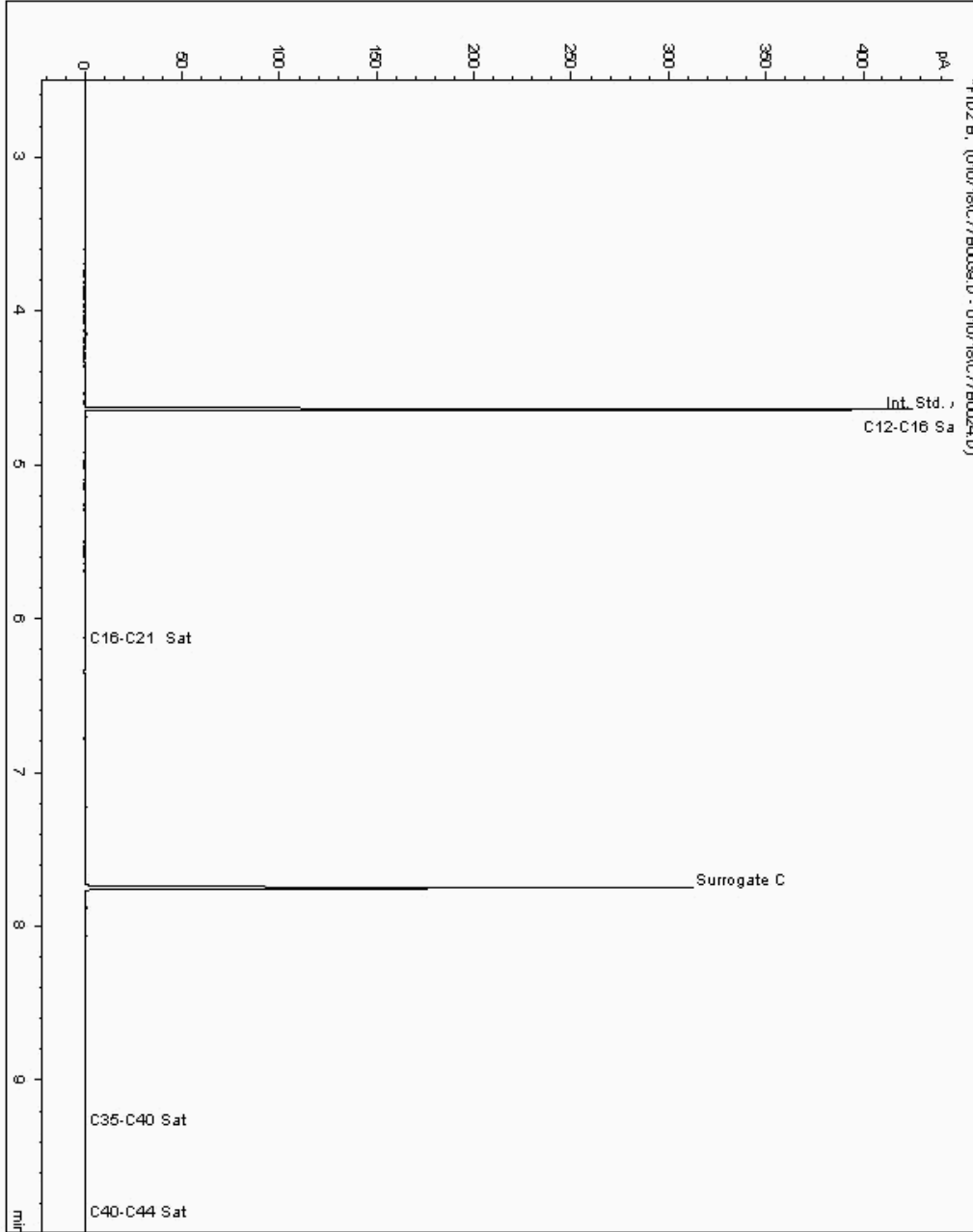
Analysis: EPH CWG (Aliphatic) GC (S)
19027678

Sample No :
Sample ID : BH213

19,027,678 Depth : 10.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875724-
Date Acquired : 1/7/2019 11:11:51 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

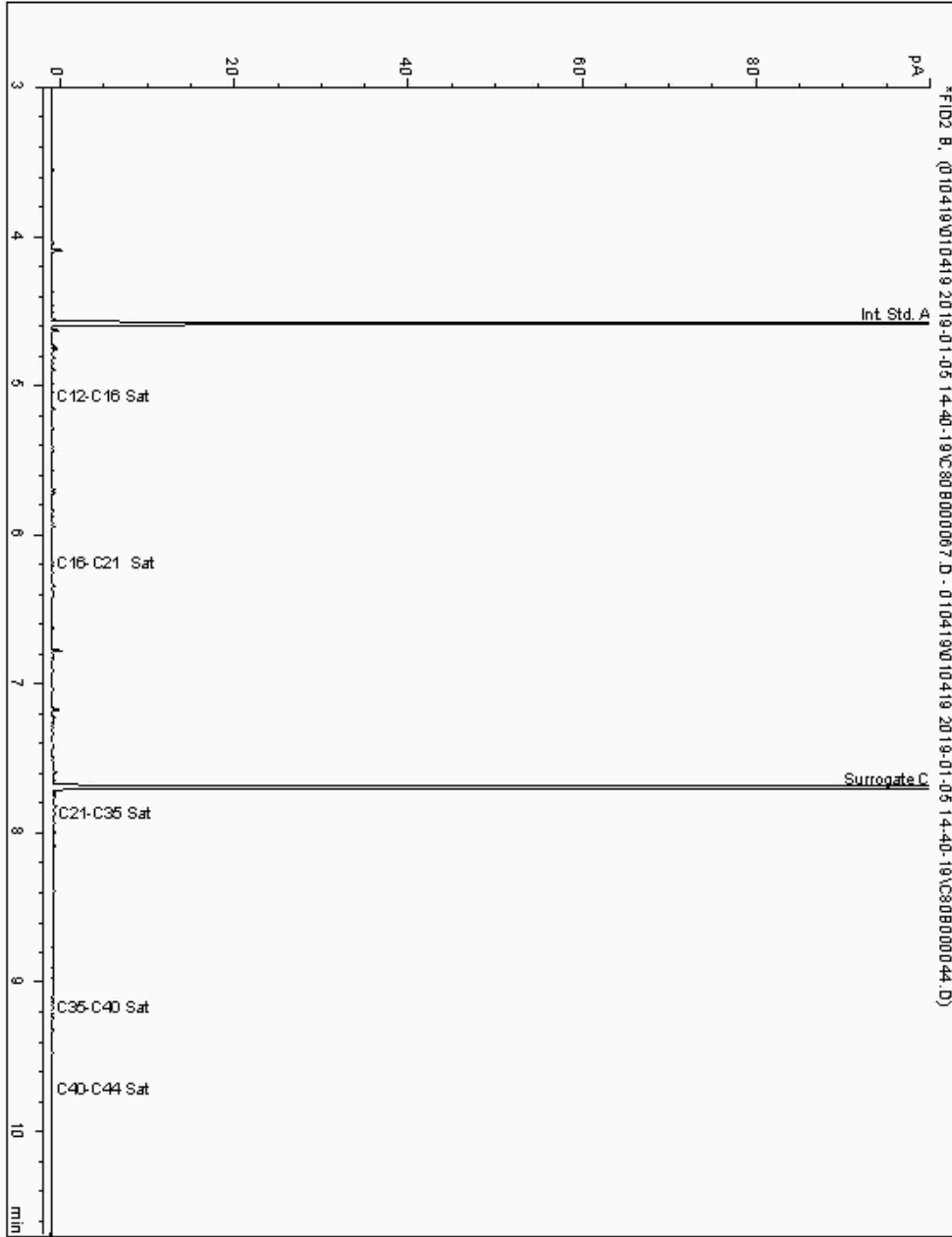
Analysis: EPH CWG (Aliphatic) GC (S)
19027812

Sample No :
Sample ID : BH212

19,027,812 Depth : 9.00 - 10.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875228-
Date Acquired : 05/01/19 22:37:39
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

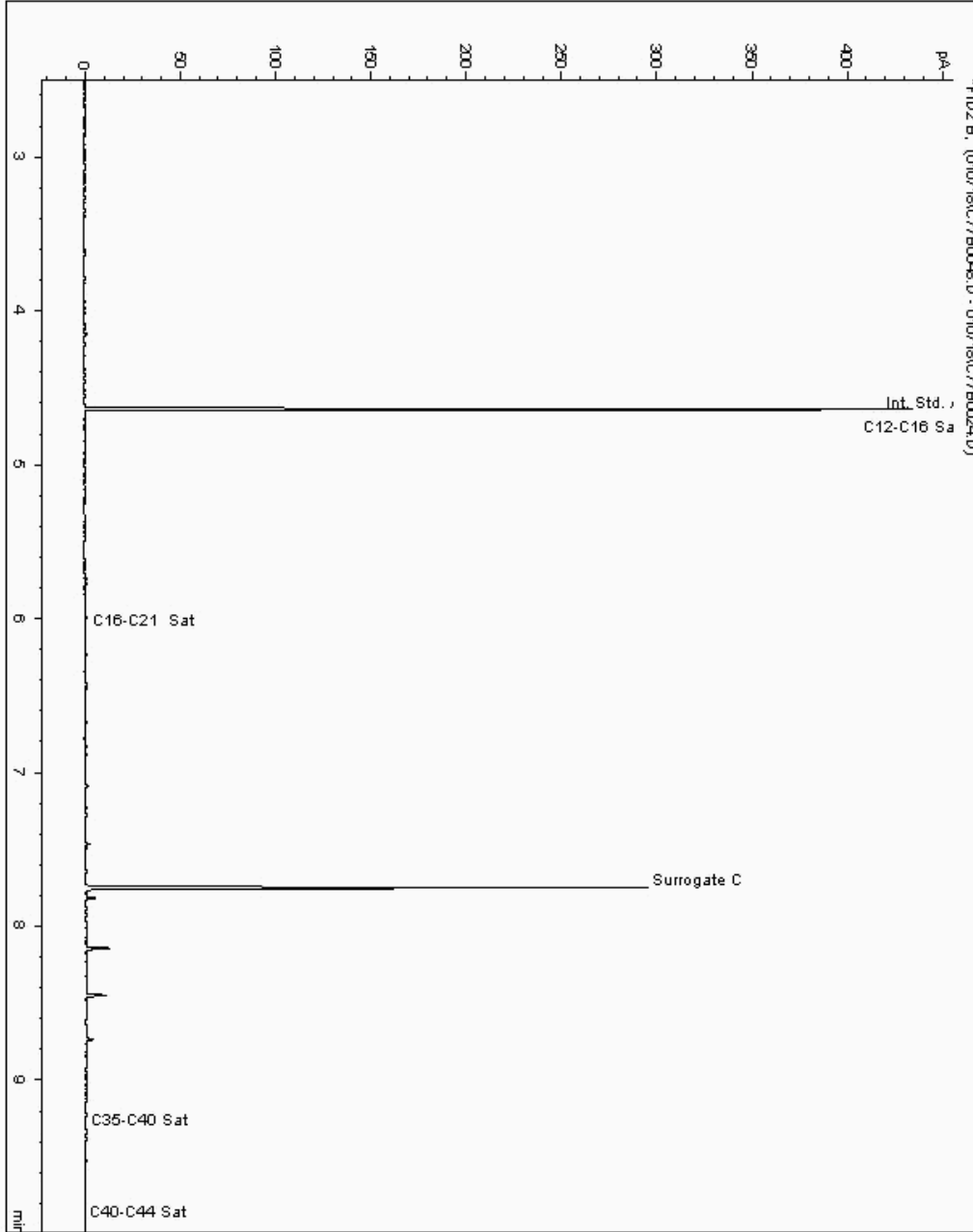
Analysis: EPH CWG (Aliphatic) GC (S)
19028376

Sample No :
Sample ID : BH211

19,028,376Depth :3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17874720-
Date Acquired : 1/8/2019 1:47:35 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

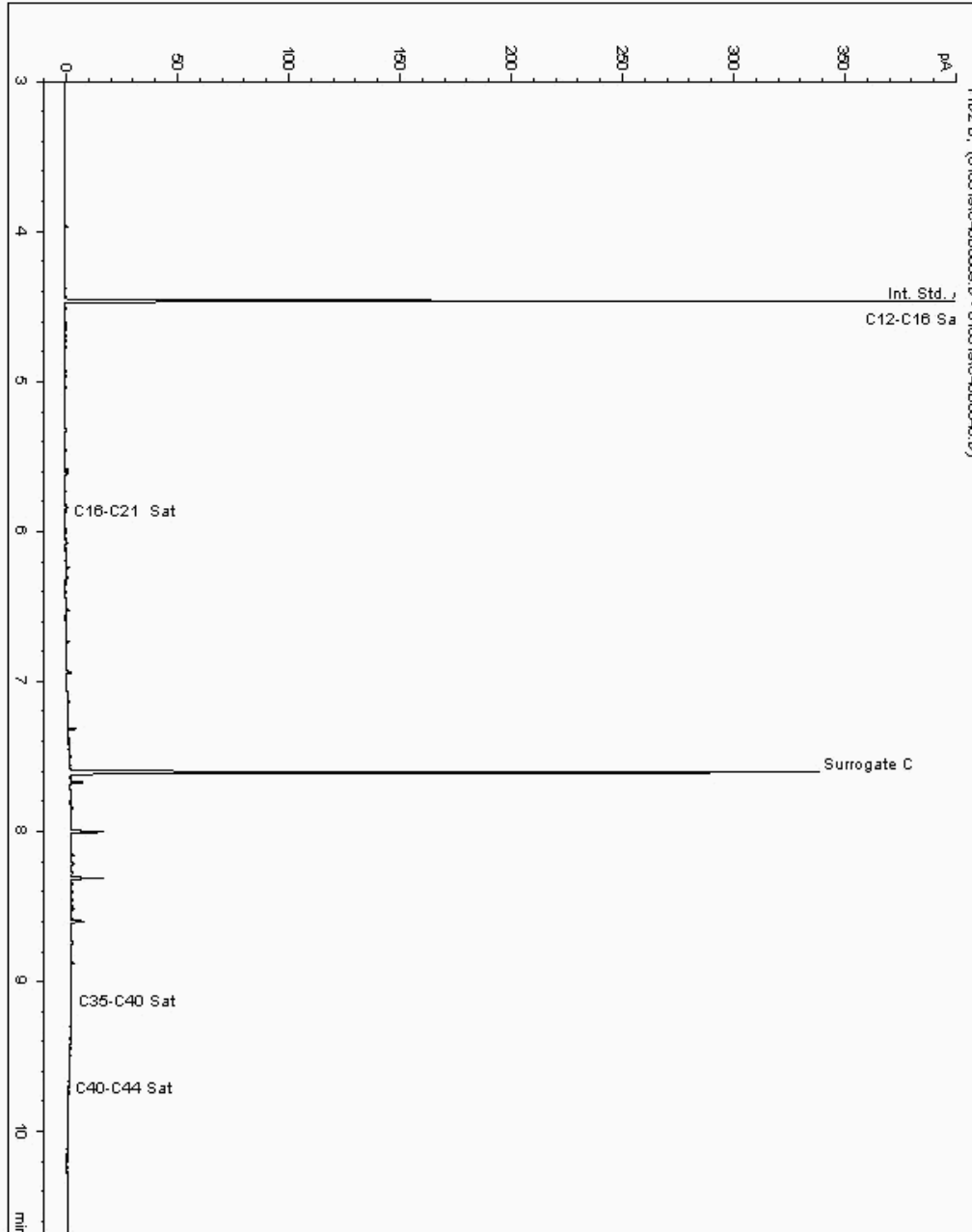
Analysis: EPH CWG (Aliphatic) GC (S)
19028382

Sample No :
Sample ID : BH213

19,028,382Depth :4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875608-
Date Acquired : 07/01/2019 22:57:11 PM
Units : ppb
Dilution: BH213[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

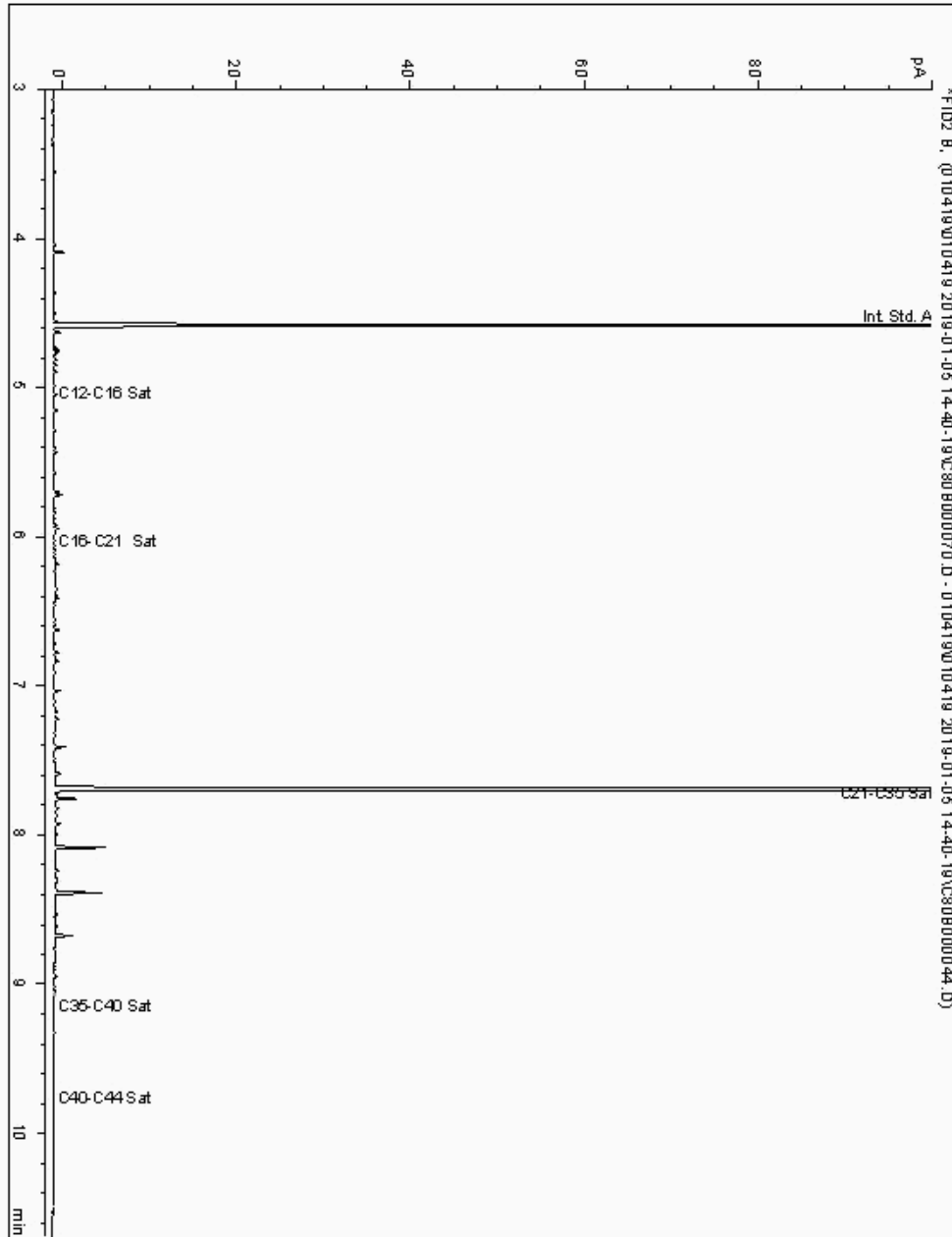
Analysis: EPH CWG (Aliphatic) GC (S)
19028394

Sample No :
Sample ID : BH212

19,028,394 Depth : 4.50 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875066-
Date Acquired : 05/01/19 23:36:56
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

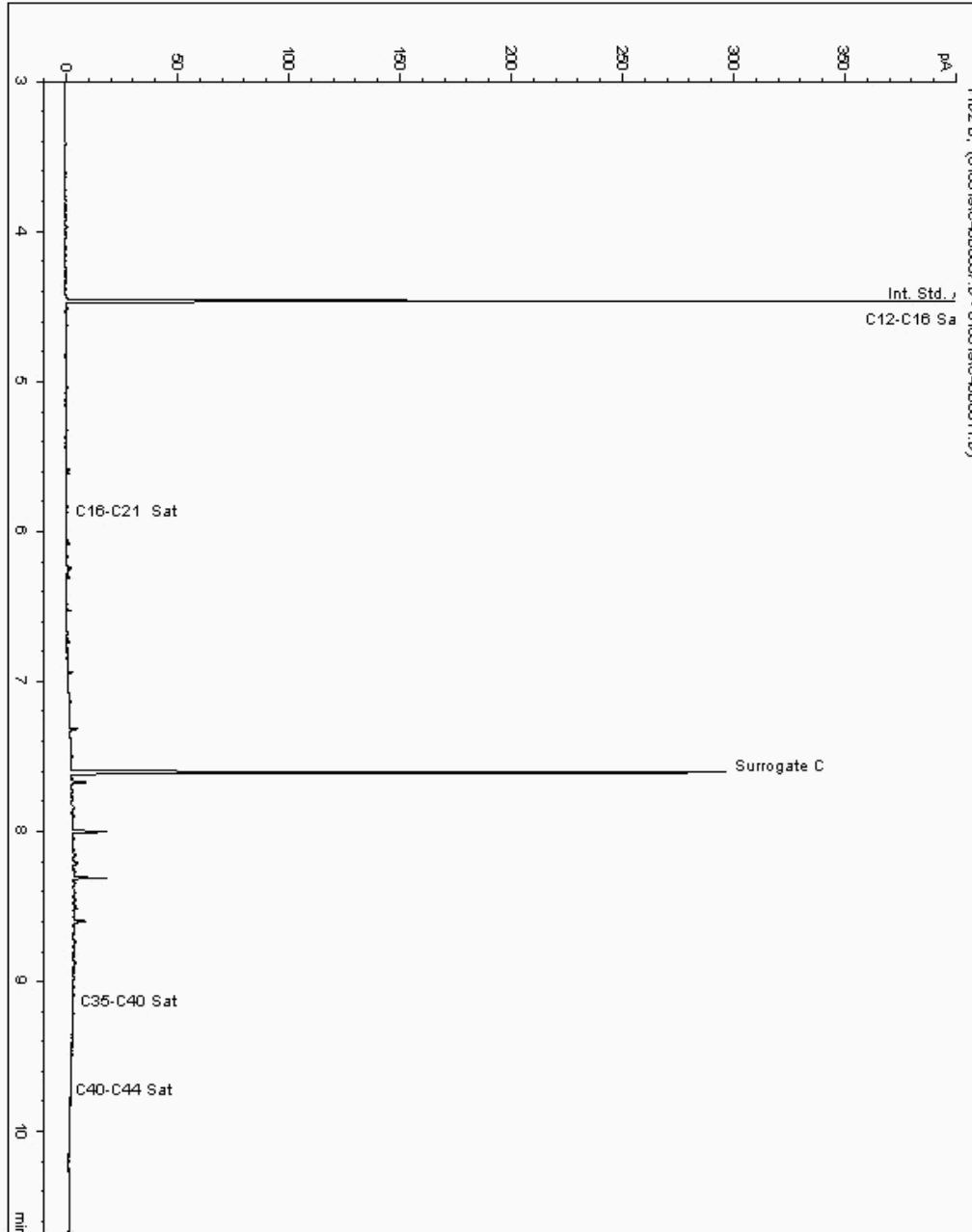
Analysis: EPH CWG (Aliphatic) GC (S)
19028414

Sample No :
Sample ID : BH211

19,028,414 Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874656-
Date Acquired : 05/01/2019 20:34:37 PM
Units : ppb
Dilution: BH211[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

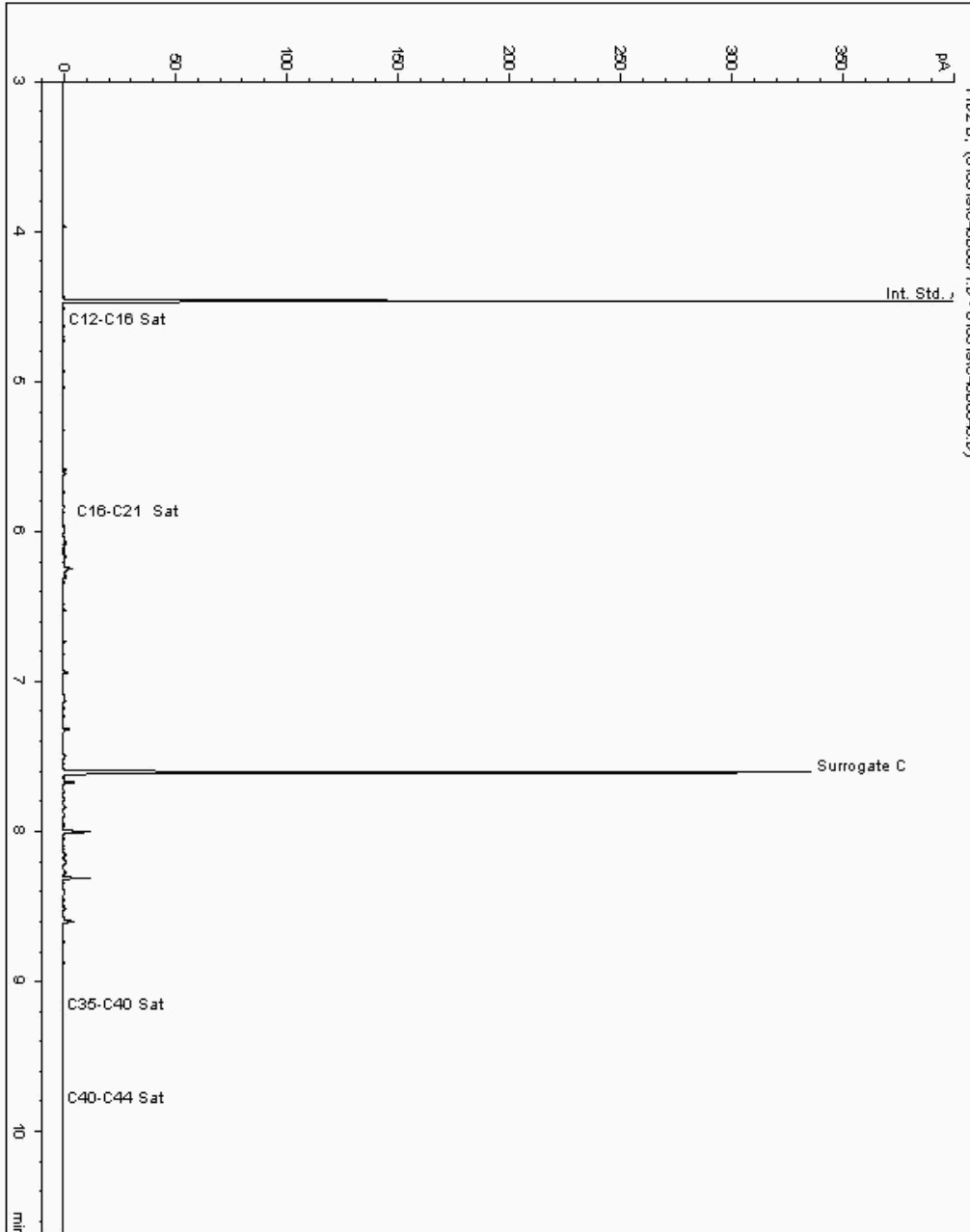
Analysis: EPH CWG (Aliphatic) GC (S)
19028425

Sample No :
Sample ID : BH211

19,028,425 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874619-
Date Acquired : 07/01/2019 23:29:30 PM
Units : ppb
Dilution: BH211[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

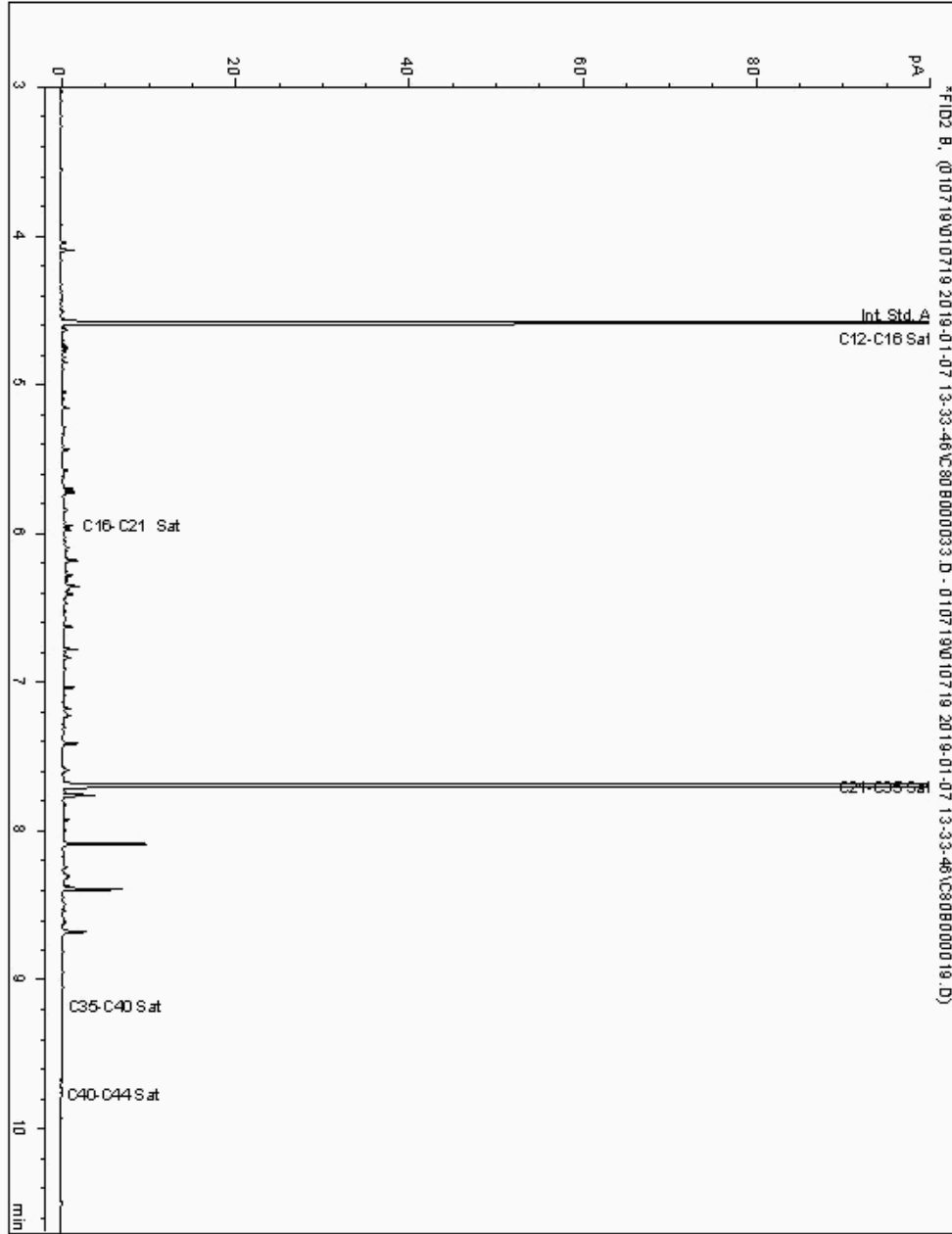
Analysis: EPH CWG (Aliphatic) GC (S)
19028431

Sample No :
Sample ID : BH212

19,028,431 Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875012-
Date Acquired : 07/01/19 23:35:38
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

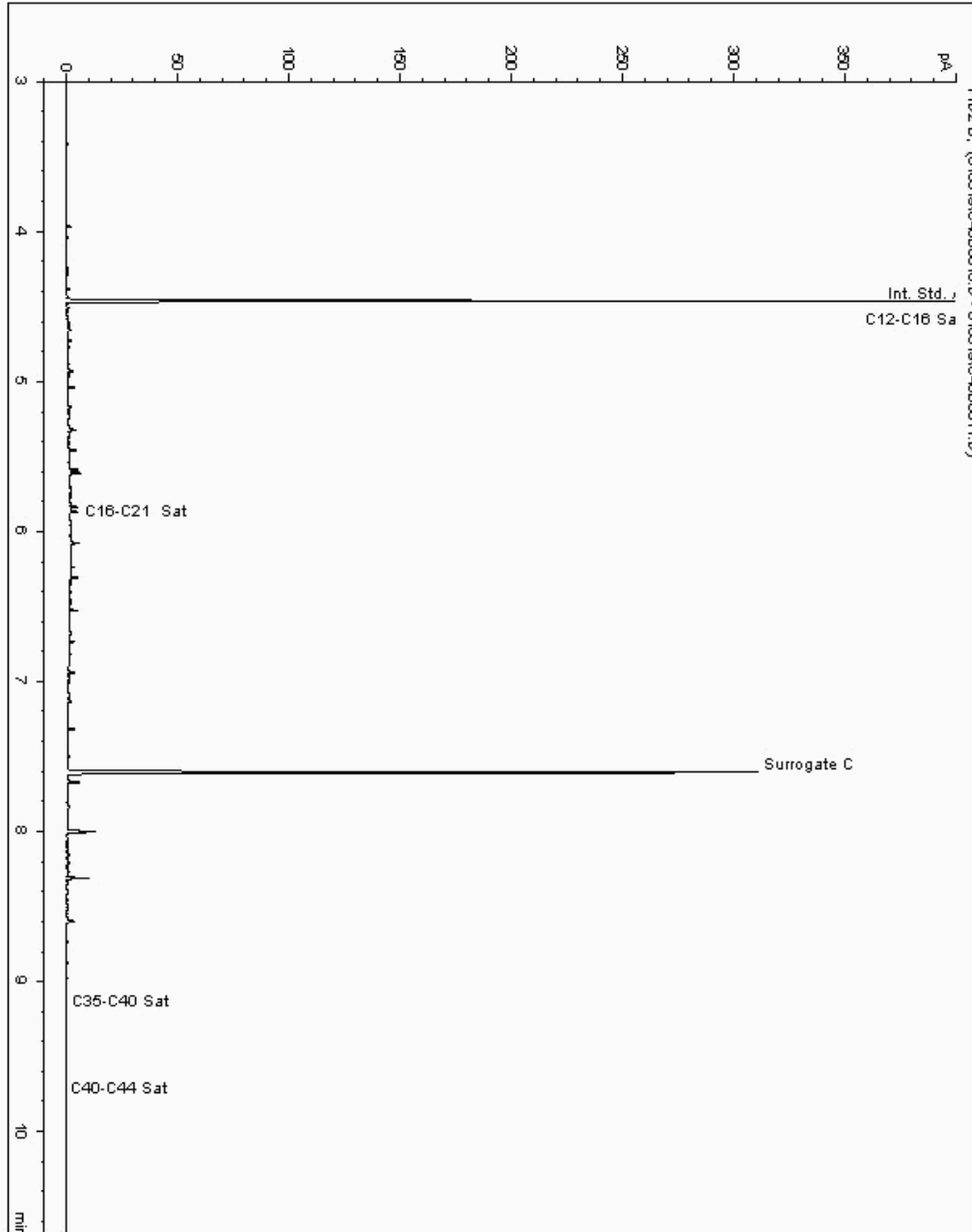
Analysis: EPH CWG (Aliphatic) GC (S)
19028463

Sample No :
Sample ID : BH212

19,028,463Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874985-
Date Acquired : 05/01/2019 14:39:12 PM
Units : ppb
Dilution: BH212[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

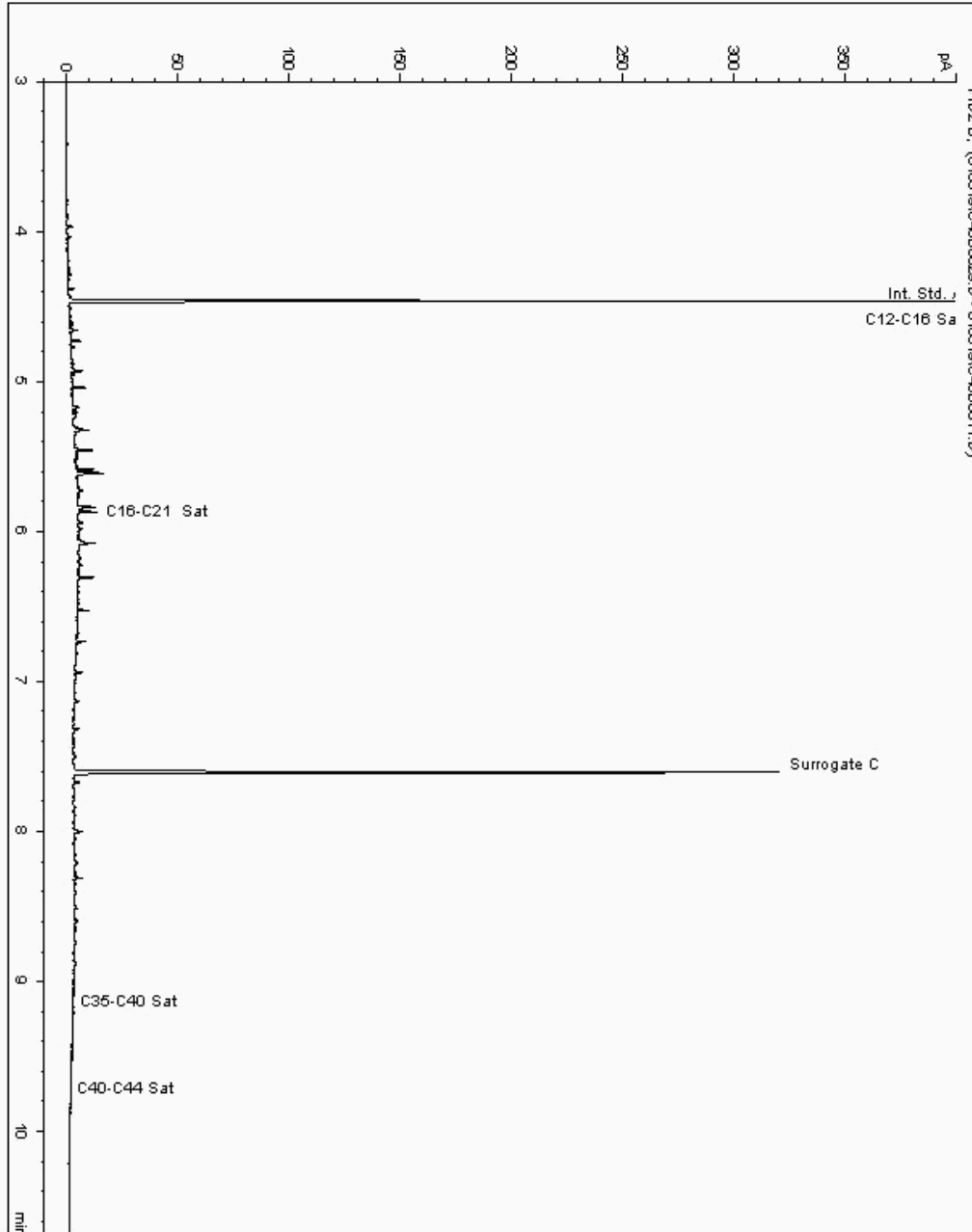
Analysis: EPH CWG (Aliphatic) GC (S)
19028566

Sample No :
Sample ID : BH212

19,028,566Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874962-
Date Acquired : 05/01/2019 18:18:48 PM
Units : ppb
Dilution: BH212[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

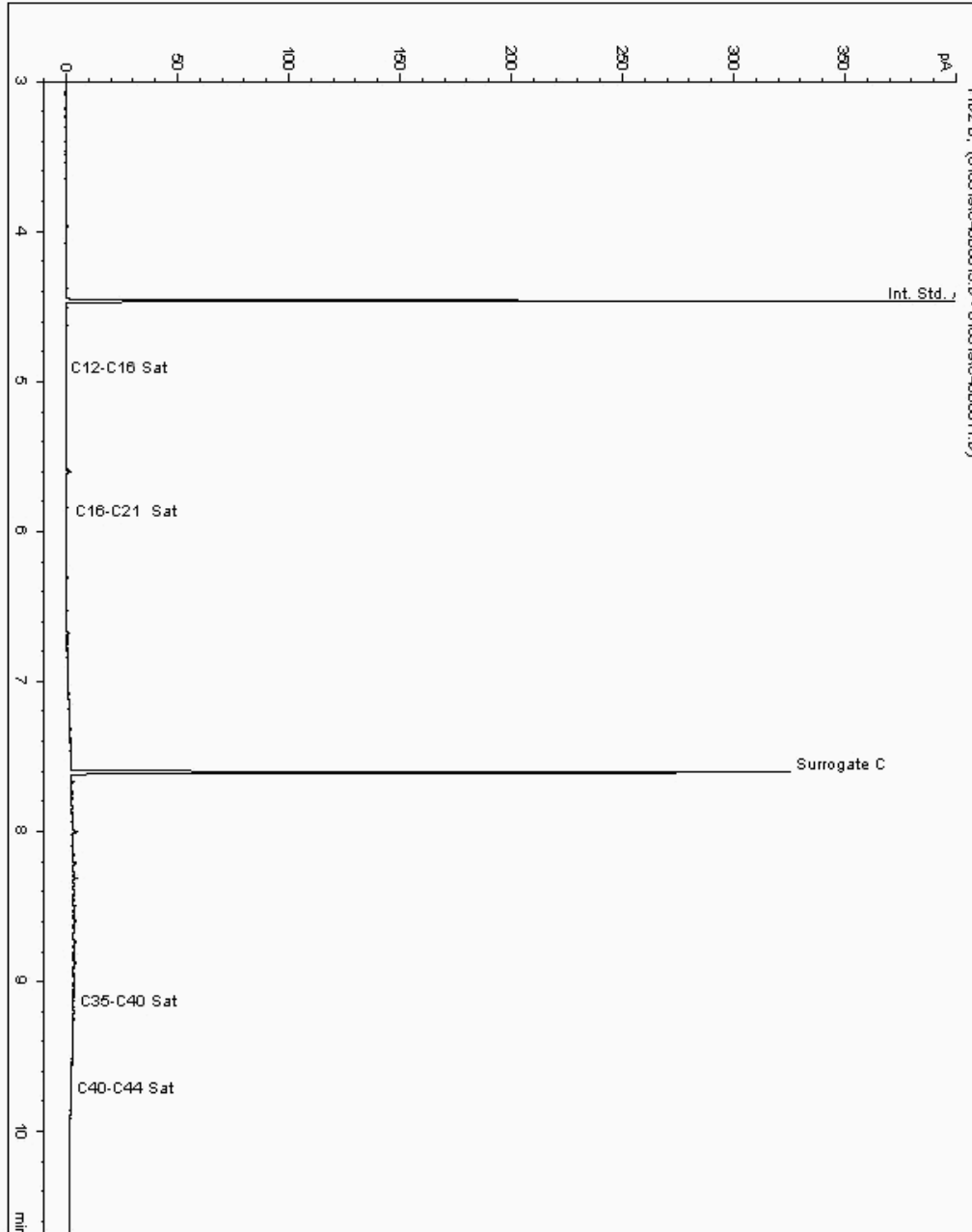
Analysis: EPH CWG (Aliphatic) GC (S)
19028586

Sample No :
Sample ID : BH212

19,028,586Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875160-
Date Acquired : 05/01/2019 14:19:25 PM
Units : ppb
Dilution: BH212[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

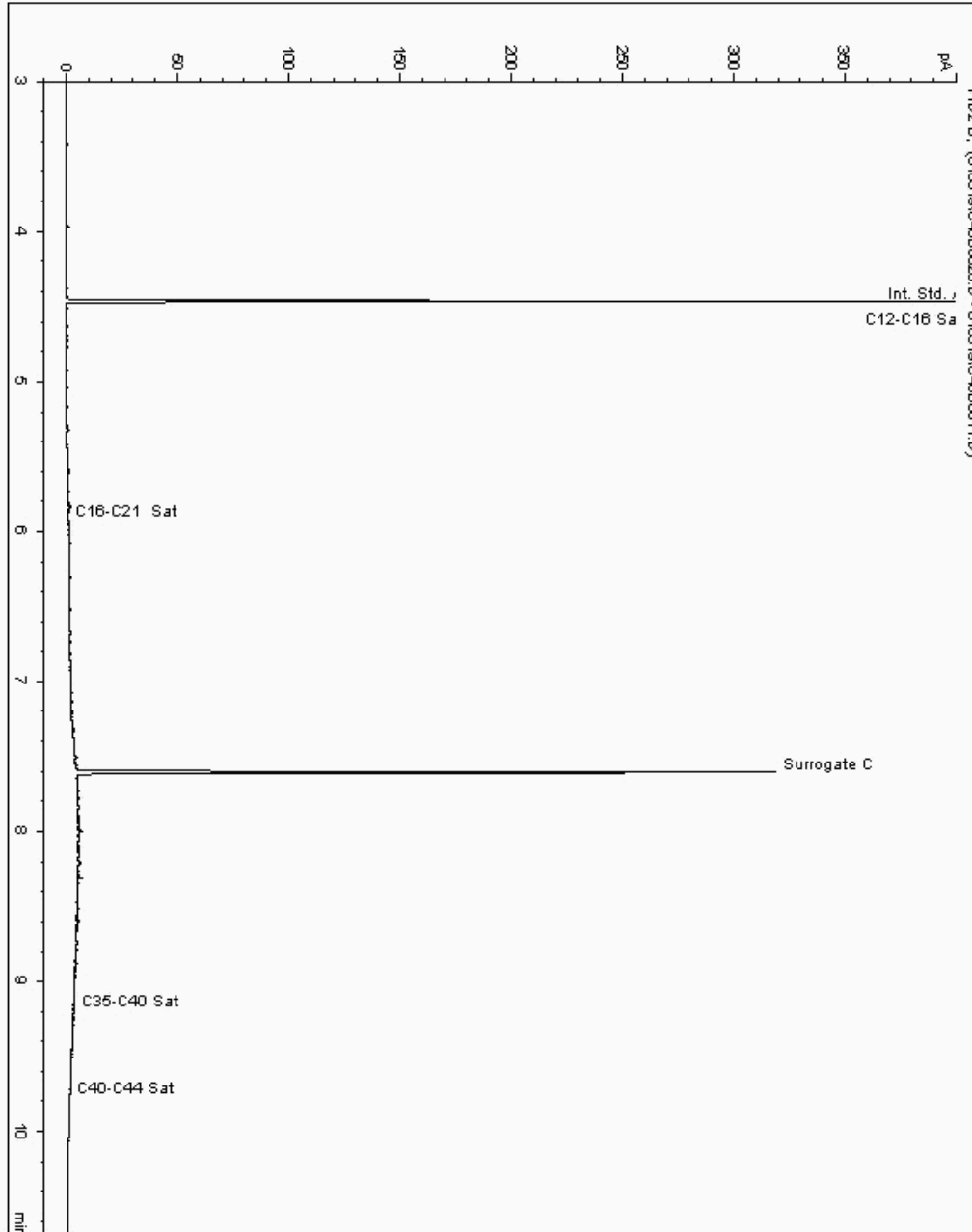
Analysis: EPH CWG (Aliphatic) GC (S)
19028619

Sample No :
Sample ID : BH212

19,028,619 Depth : 0.00 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874938-
Date Acquired : 05/01/2019 17:58:58 PM
Units : ppb
Dilution: BH212[0.00 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

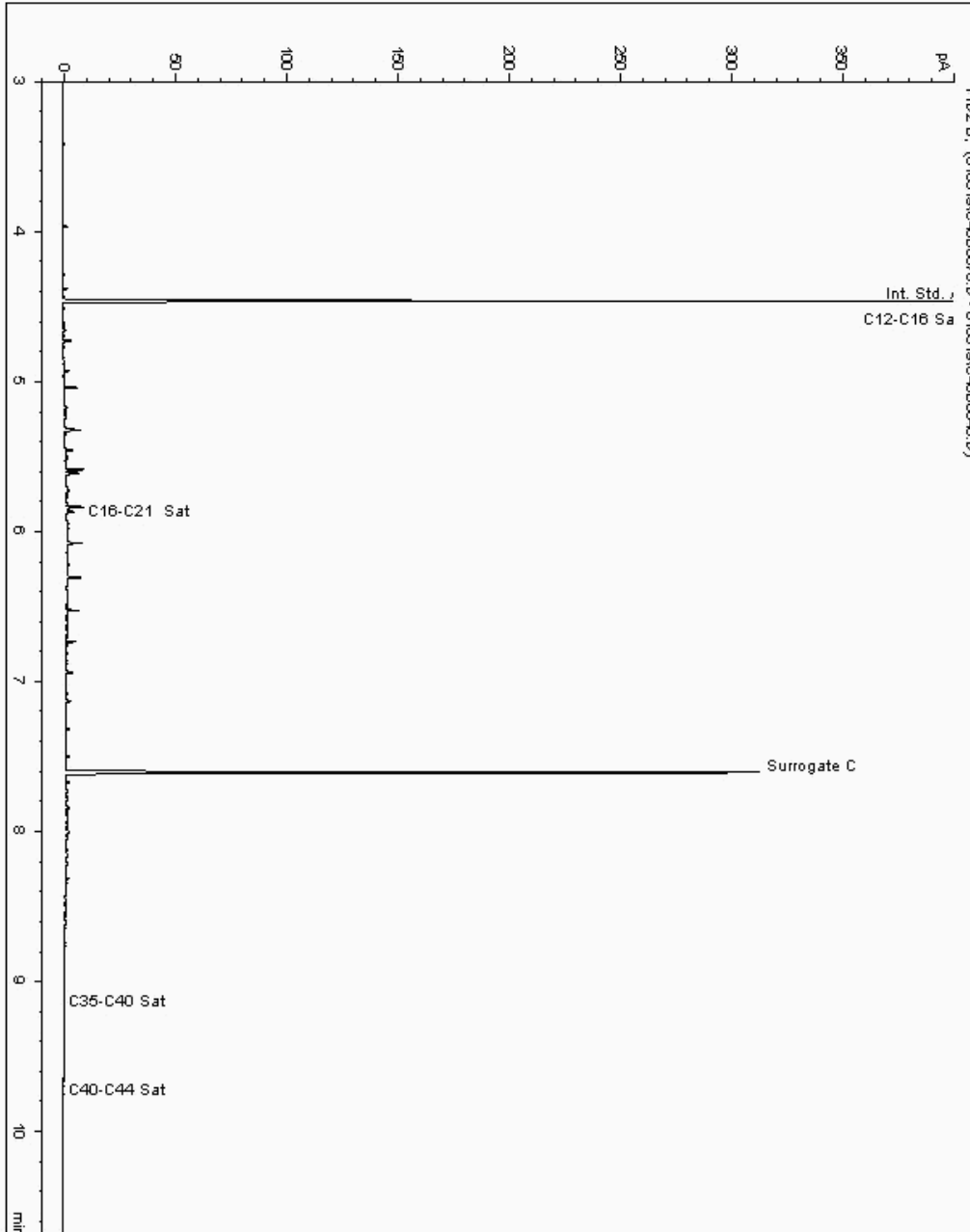
Analysis: EPH CWG (Aliphatic) GC (S)
19028665

Sample No :
Sample ID : BH213

19,028,665Depth :0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875448-
Date Acquired : 08/01/2019 00:54:39 PM
Units : ppb
Dilution: BH213[0.00 - 0.50] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

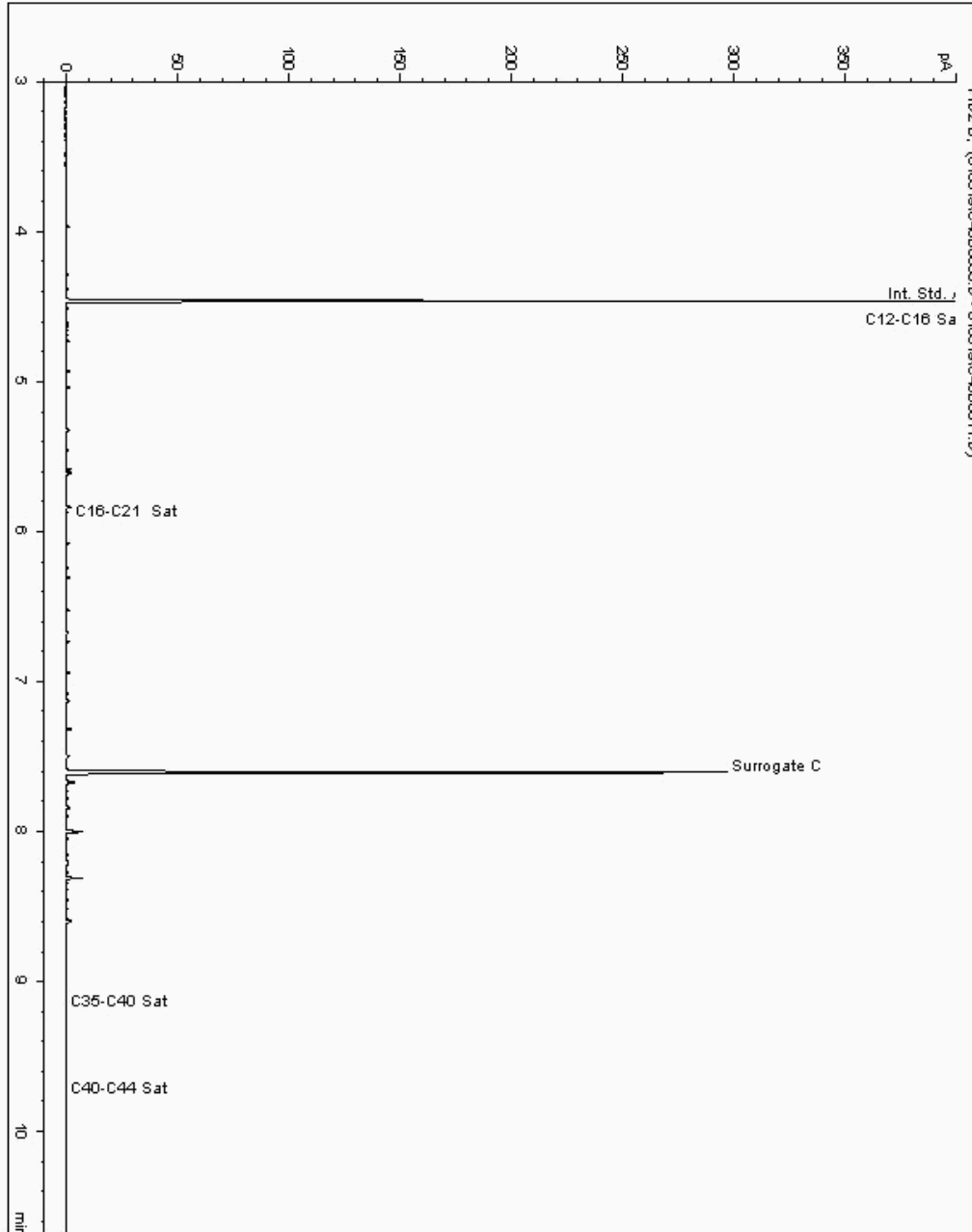
Analysis: EPH CWG (Aliphatic) GC (S)
19028678

Sample No :
Sample ID : BH213

19,028,678 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875473-
Date Acquired : 05/01/2019 19:30:37 PM
Units : ppb
Dilution: BH213[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

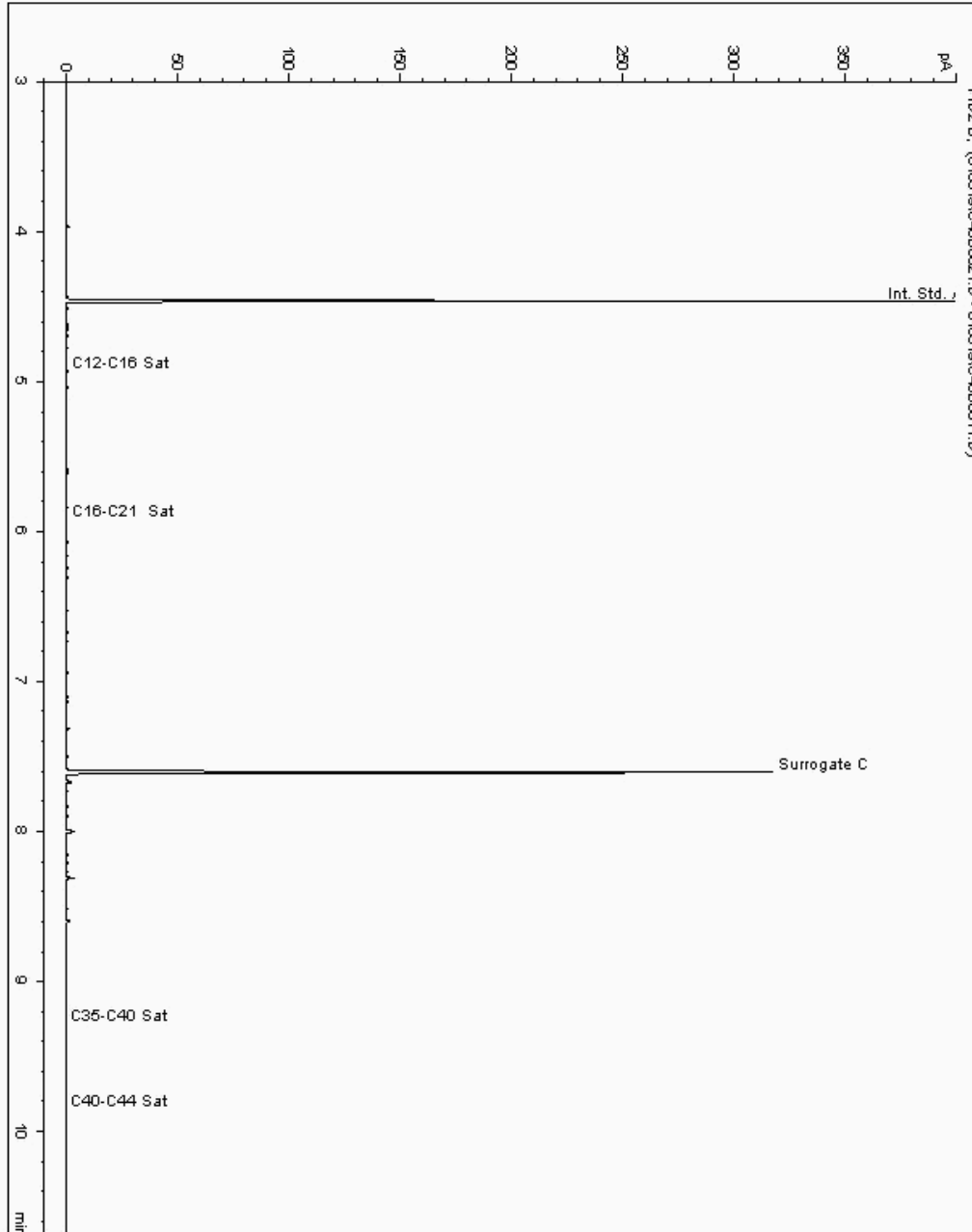
Analysis: EPH CWG (Aliphatic) GC (S)
19028690

Sample No :
Sample ID : BH211

19,028,690Depth :0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874576-
Date Acquired : 05/01/2019 16:02:43 PM
Units : ppb
Dilution: BH211[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

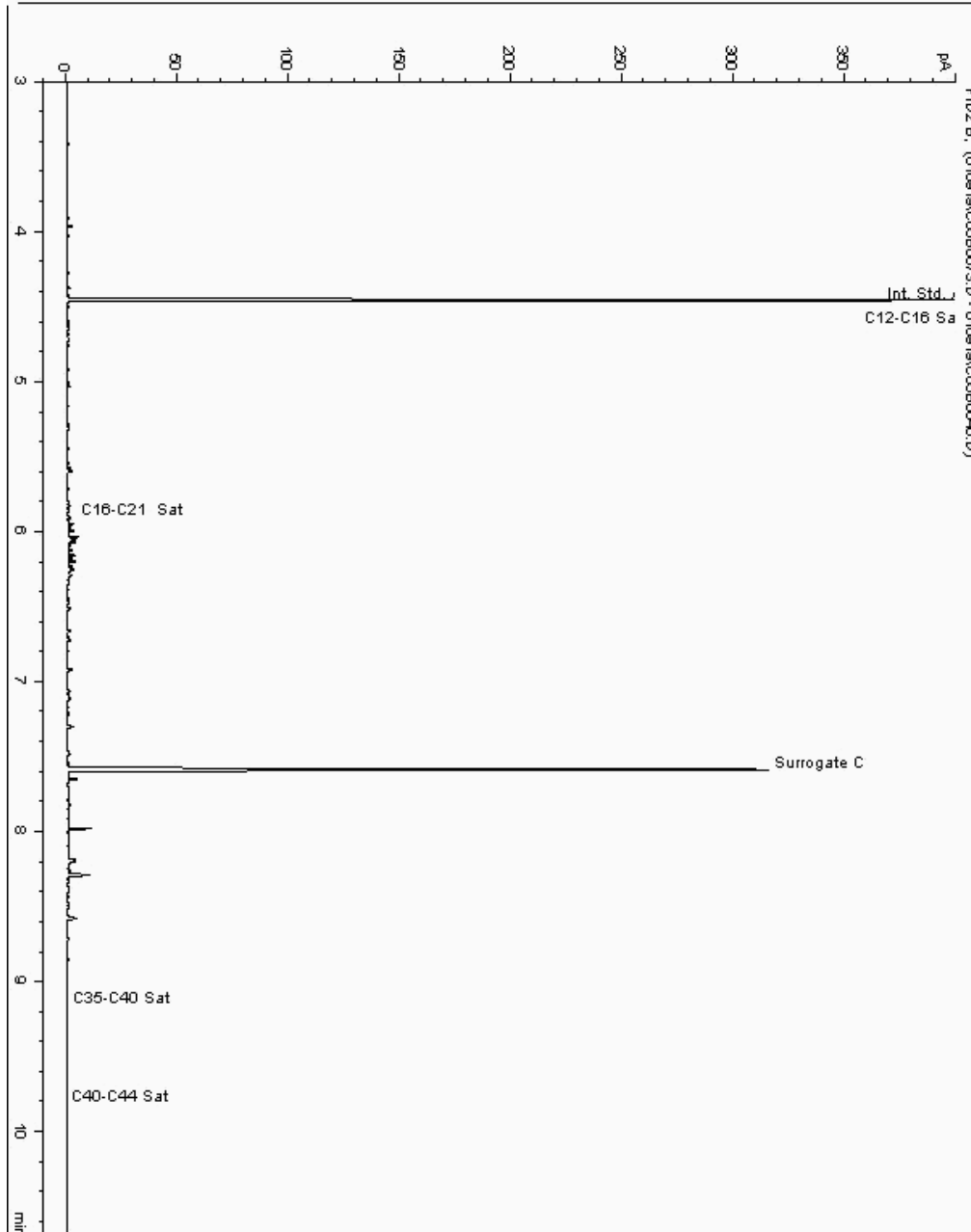
Analysis: EPH CWG (Aliphatic) GC (S)
19028701

Sample No :
Sample ID : BH213

19,028,701 Depth : 1.00 - 2.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17875511-
Date Acquired : 10/01/2019 09:18:50 PM
Units : ppb
Dilution: BH213[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

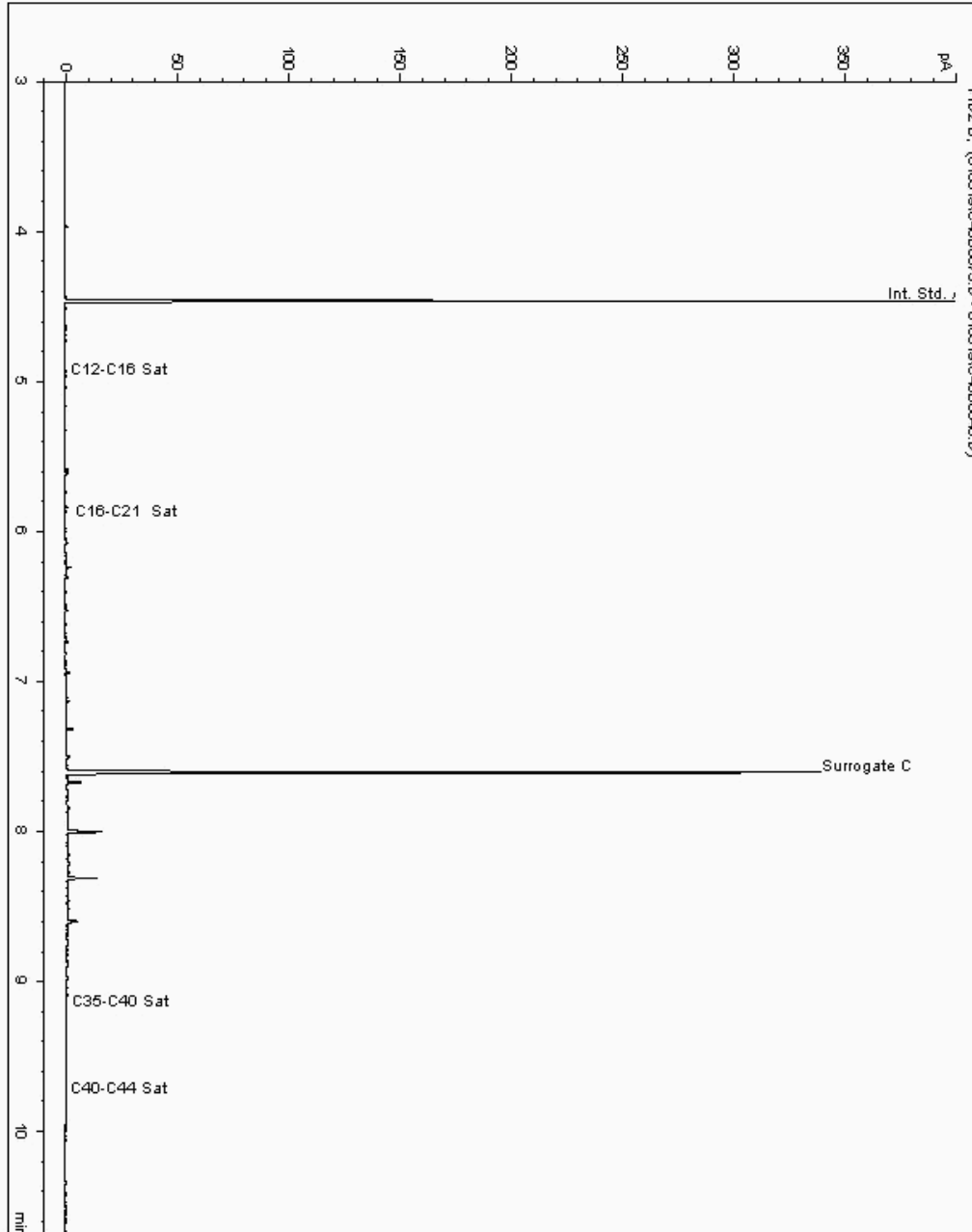
Analysis: EPH CWG (Aliphatic) GC (S)
19028707

Sample No :
Sample ID : BH213

19,028,707Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875554-
Date Acquired : 08/01/2019 00:01:50 PM
Units : ppb
Dilution: BH213[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

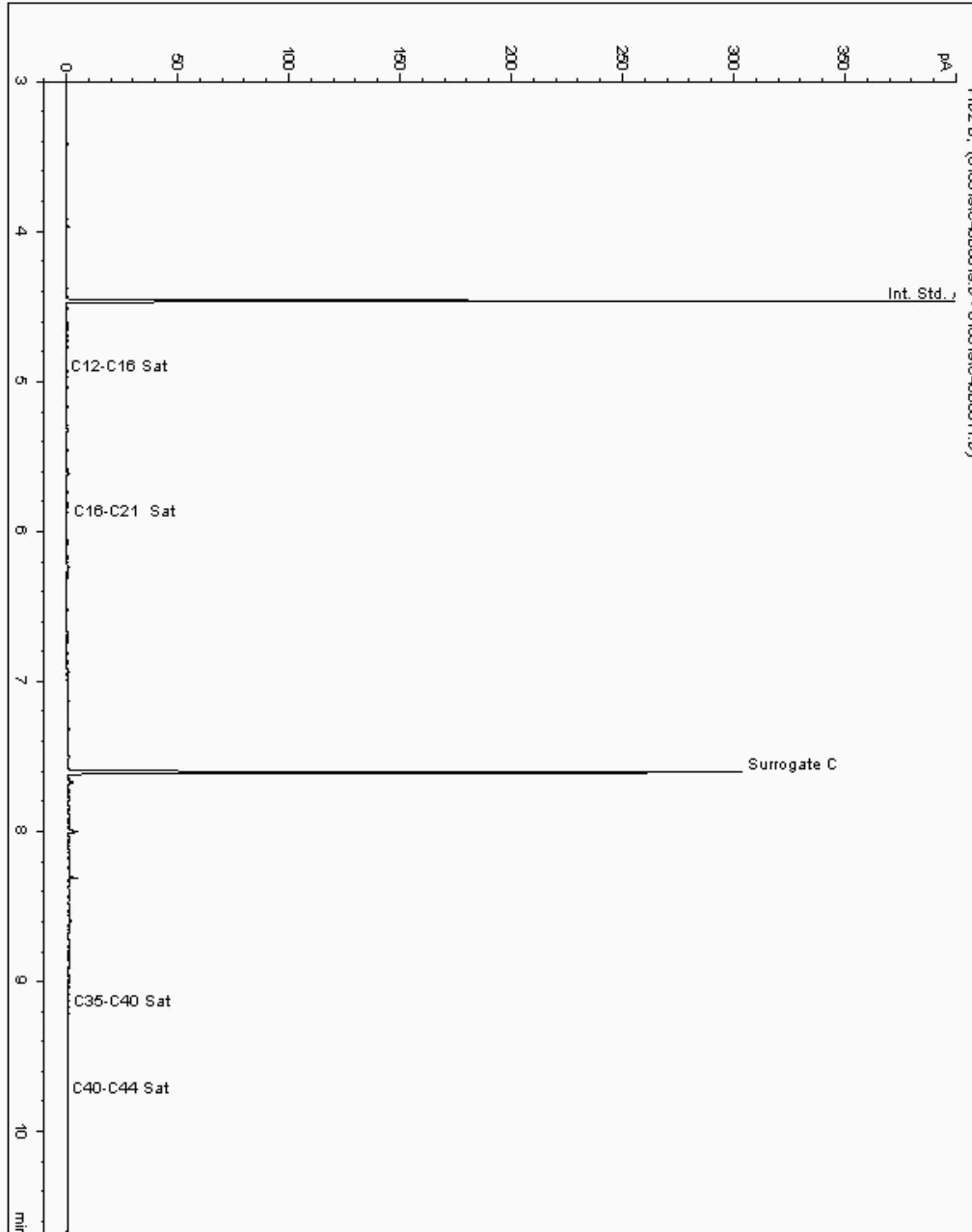
Analysis: EPH CWG (Aliphatic) GC (S)
19028713

Sample No :
Sample ID : BH213

19,028,713 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875581-
Date Acquired : 05/01/2019 15:30:59 PM
Units : ppb
Dilution: BH213[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

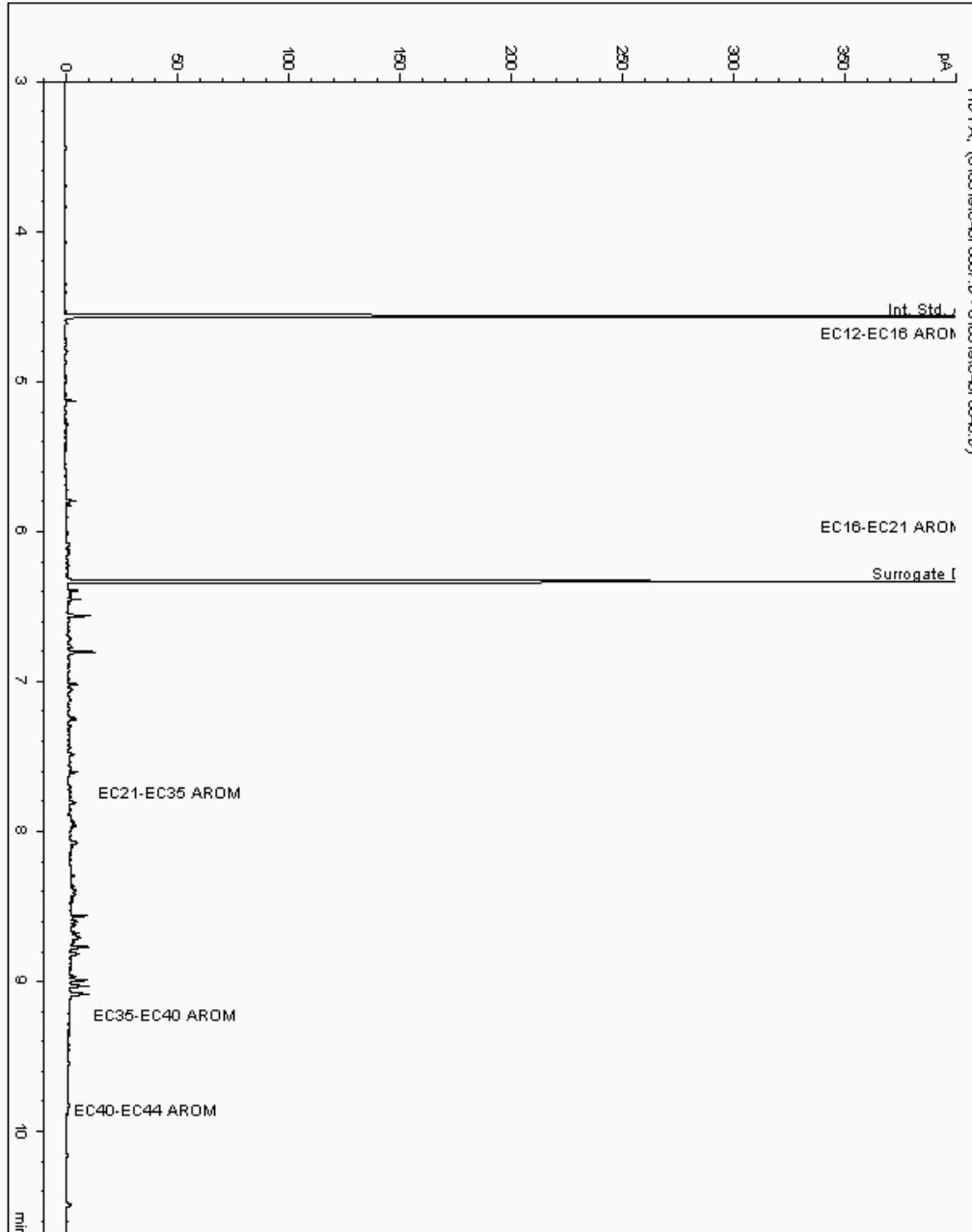
Analysis: EPH CWG (Aromatic) GC (S)
19021985

Sample No :
Sample ID : BH211

19,021,985Depth :4.50 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874769-
Date Acquired : 07/01/2019 22:24:35 PM
Units : ppb
Dilution: BH211[4.50 - 6.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

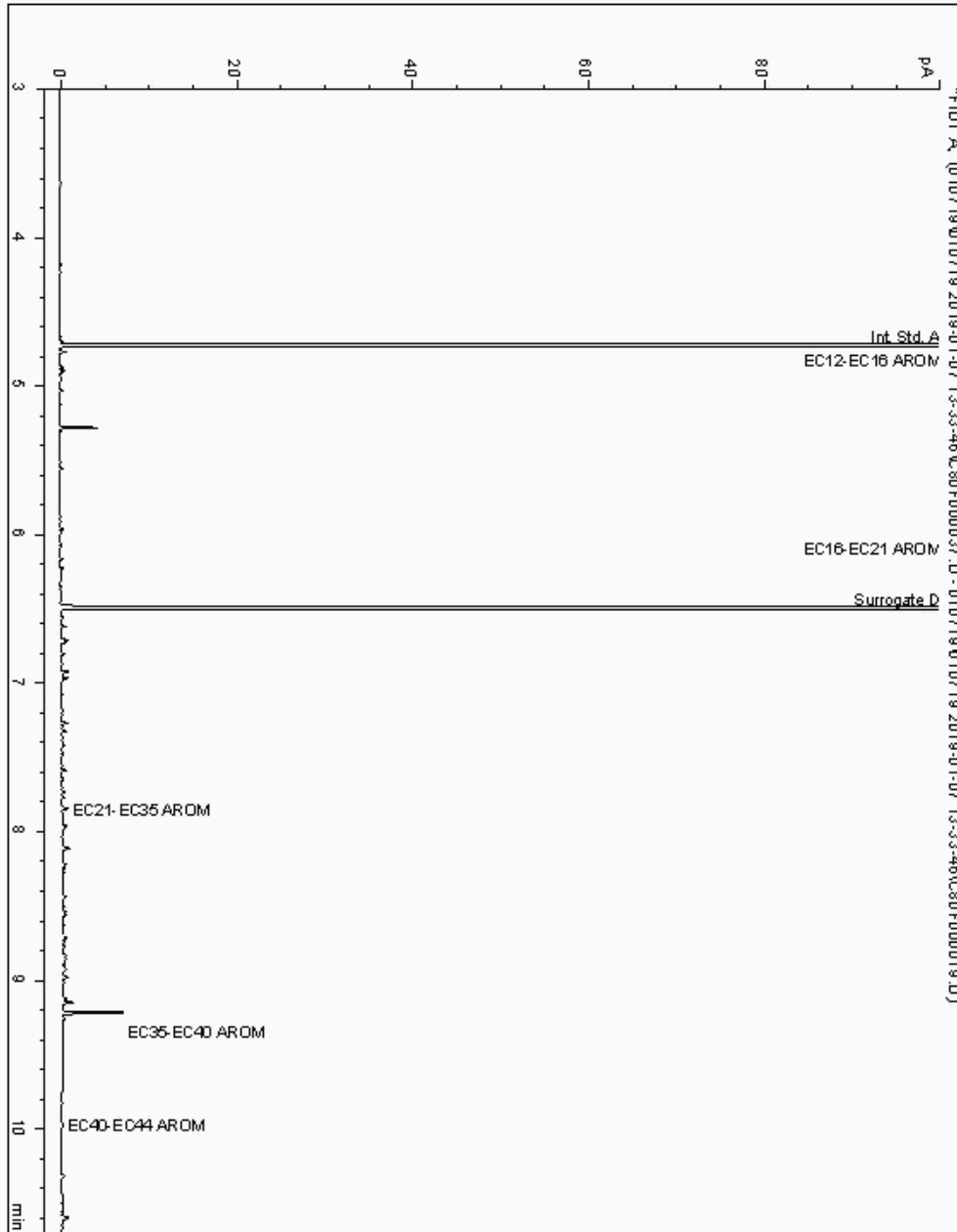
Analysis: EPH CWG (Aromatic) GC (S)
19022329

Sample No :
Sample ID : BH211

19,022,329Depth :8.00 - 9.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17874792-
Date Acquired : 08/01/19 00:40:06
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

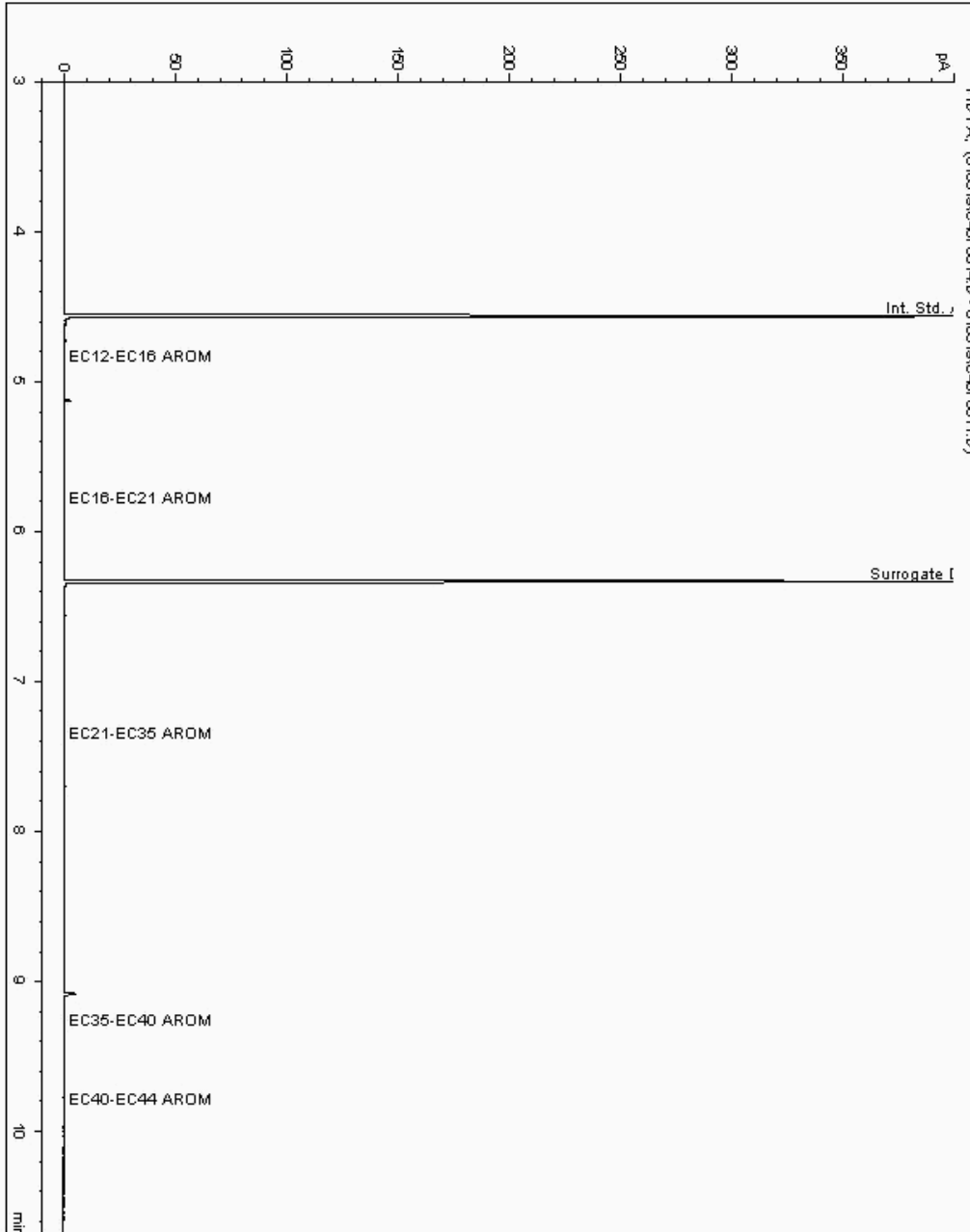
Analysis: EPH CWG (Aromatic) GC (S)
19022859

Sample No :
Sample ID : BH212

19,022,859Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875313-
Date Acquired : 05/01/2019 13:59:39 PM
Units : ppb
Dilution: BH212[14.00 - 15.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

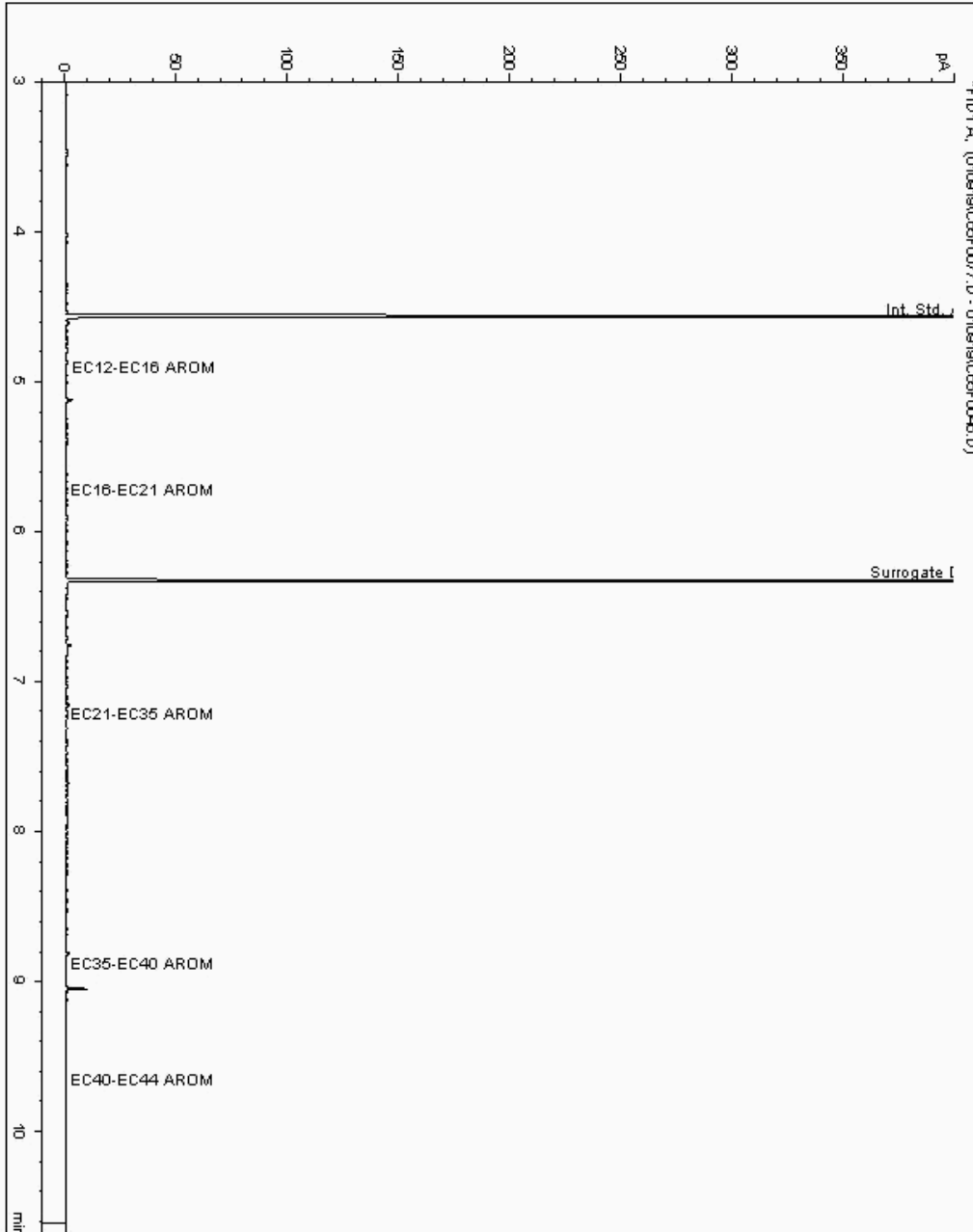
Analysis: EPH CWG (Aromatic) GC (S)
19022920

Sample No :
Sample ID : BH211

19,022,920Depth : 10.50 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874859-
Date Acquired : 10/01/2019 10:23:53 PM
Units : ppb
Dilution: BH211[10.50 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

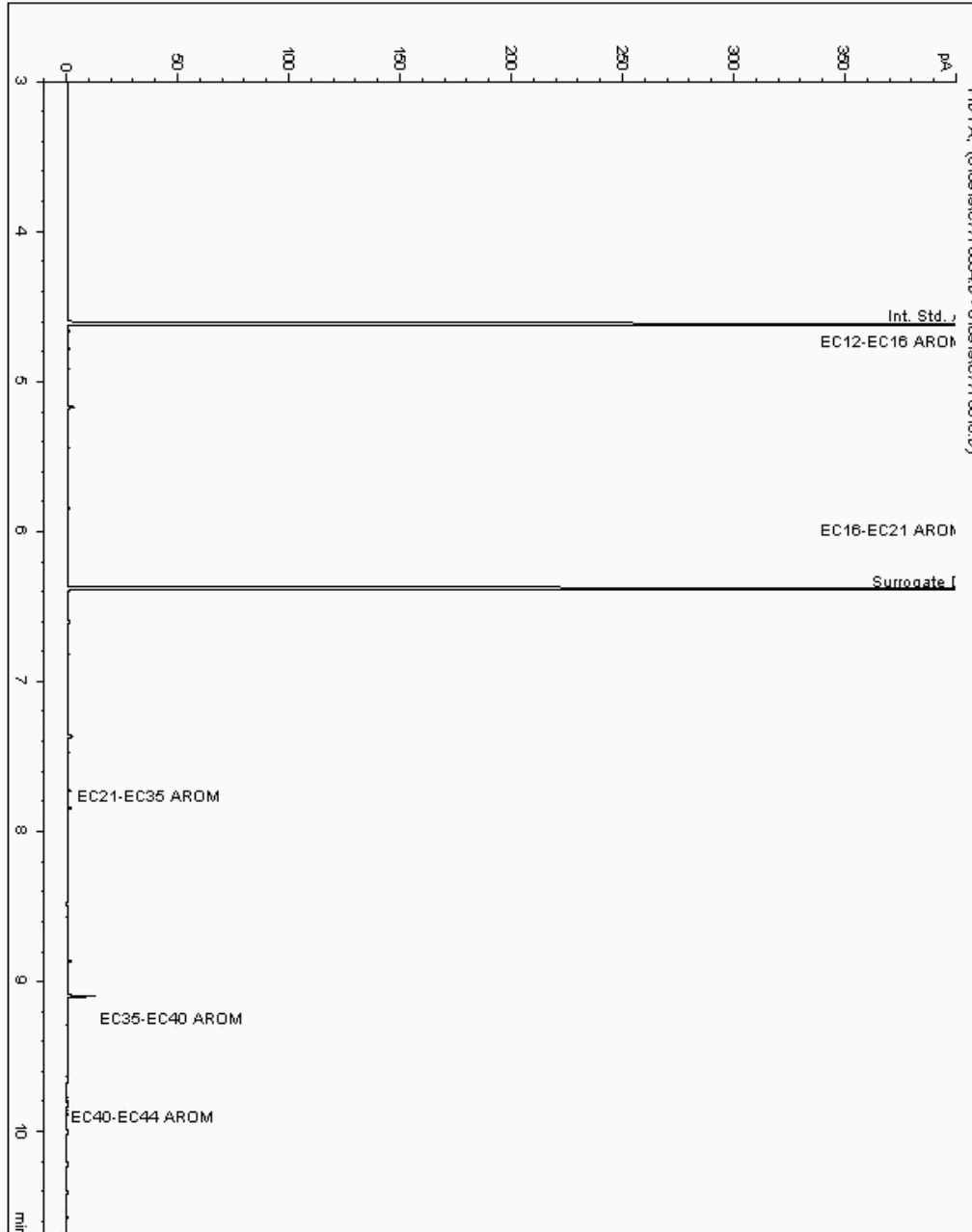
Analysis: EPH CWG (Aromatic) GC (S)
19023048

Sample No :
Sample ID : BH211

19,023,048 Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875874-
Date Acquired : 1/9/2019 5:00:29 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

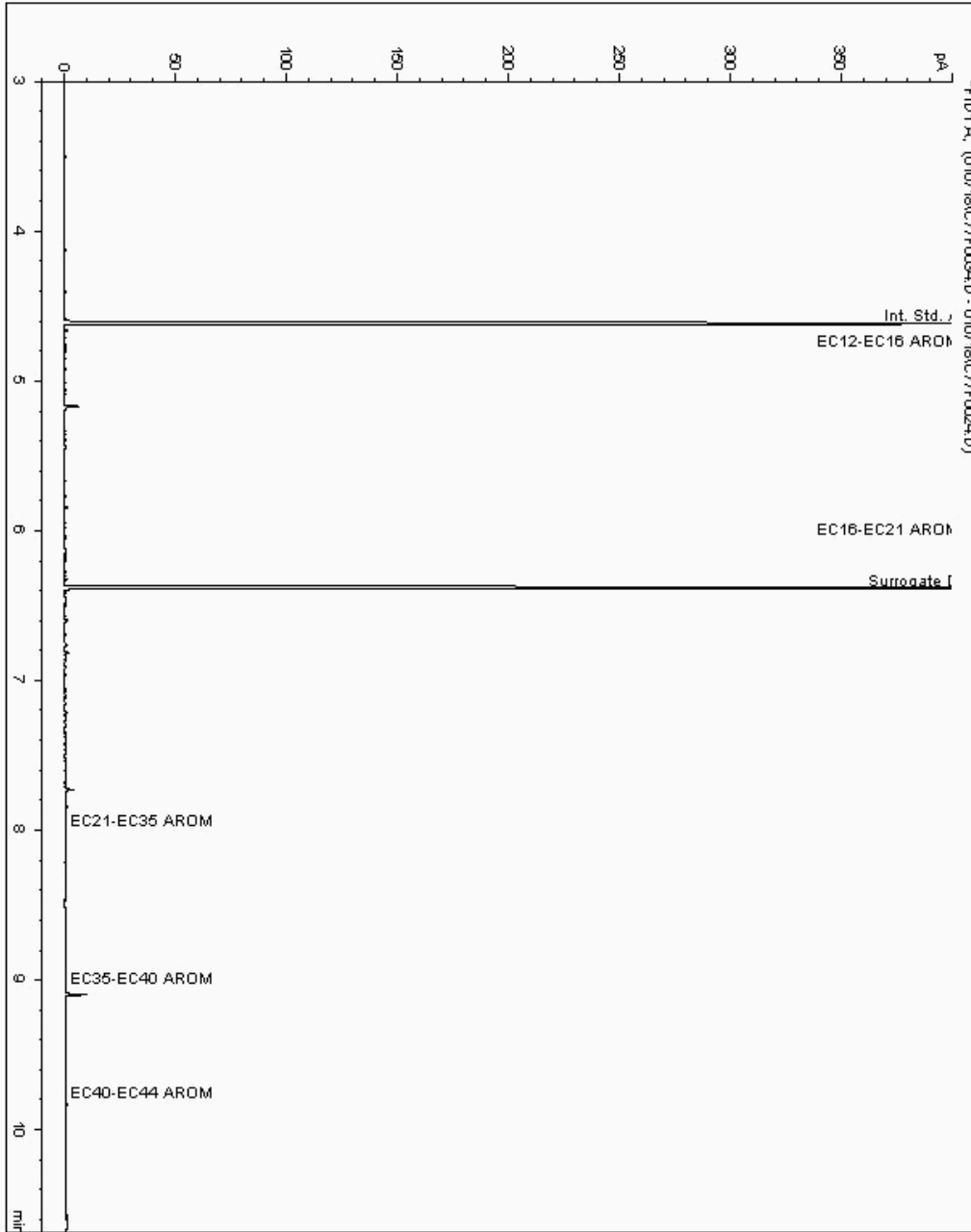
Analysis: EPH CWG (Aromatic) GC (S)
19023103

Sample No :
Sample ID : BH211

19,023,103Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874886-
Date Acquired : 1/7/2019 9:40:20 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

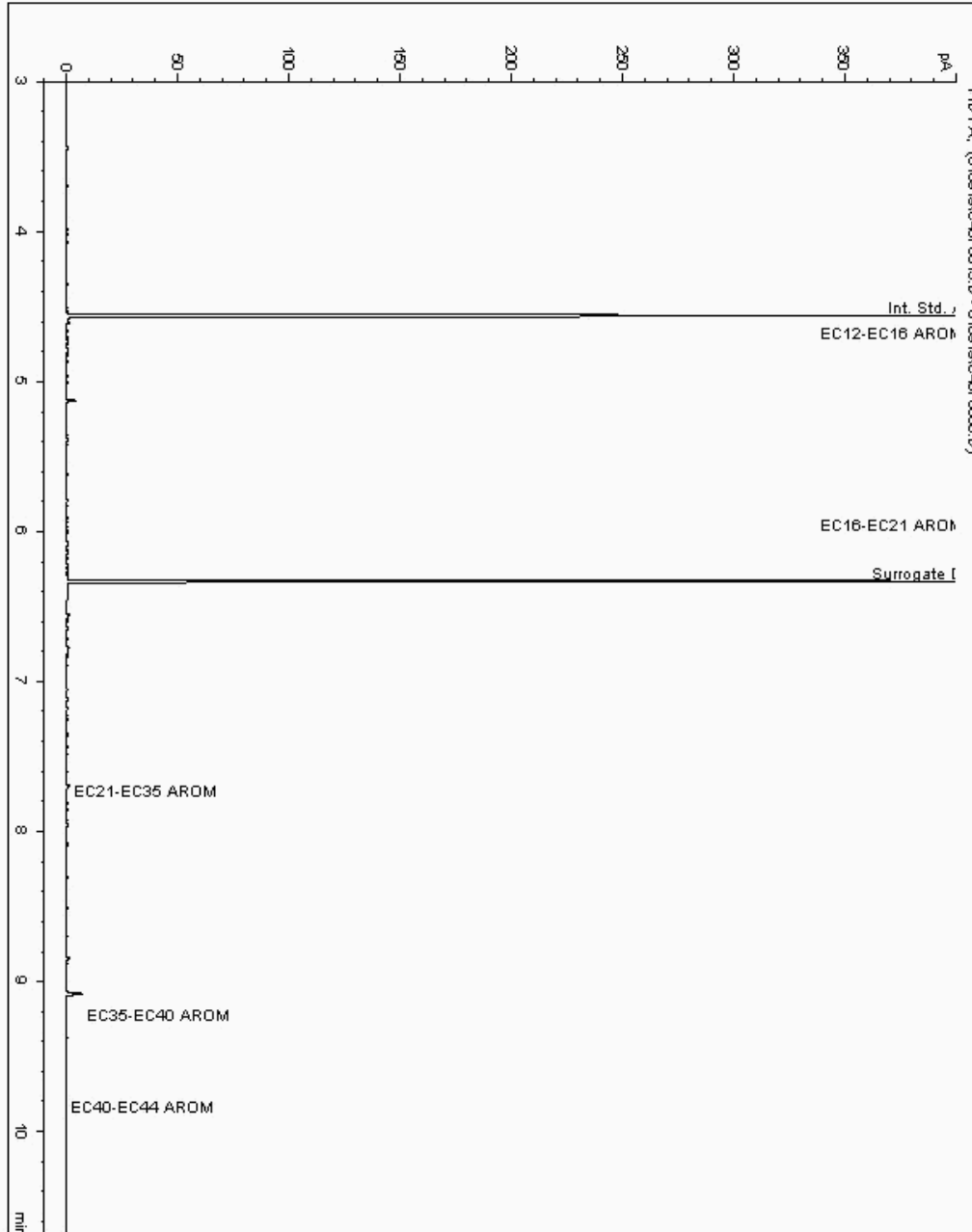
Analysis: EPH CWG (Aromatic) GC (S)
19023219

Sample No :
Sample ID : BH212

19,023,219 Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875285-
Date Acquired : 09/01/2019 18:54:11 PM
Units : ppb
Dilution: BH212[13.00 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

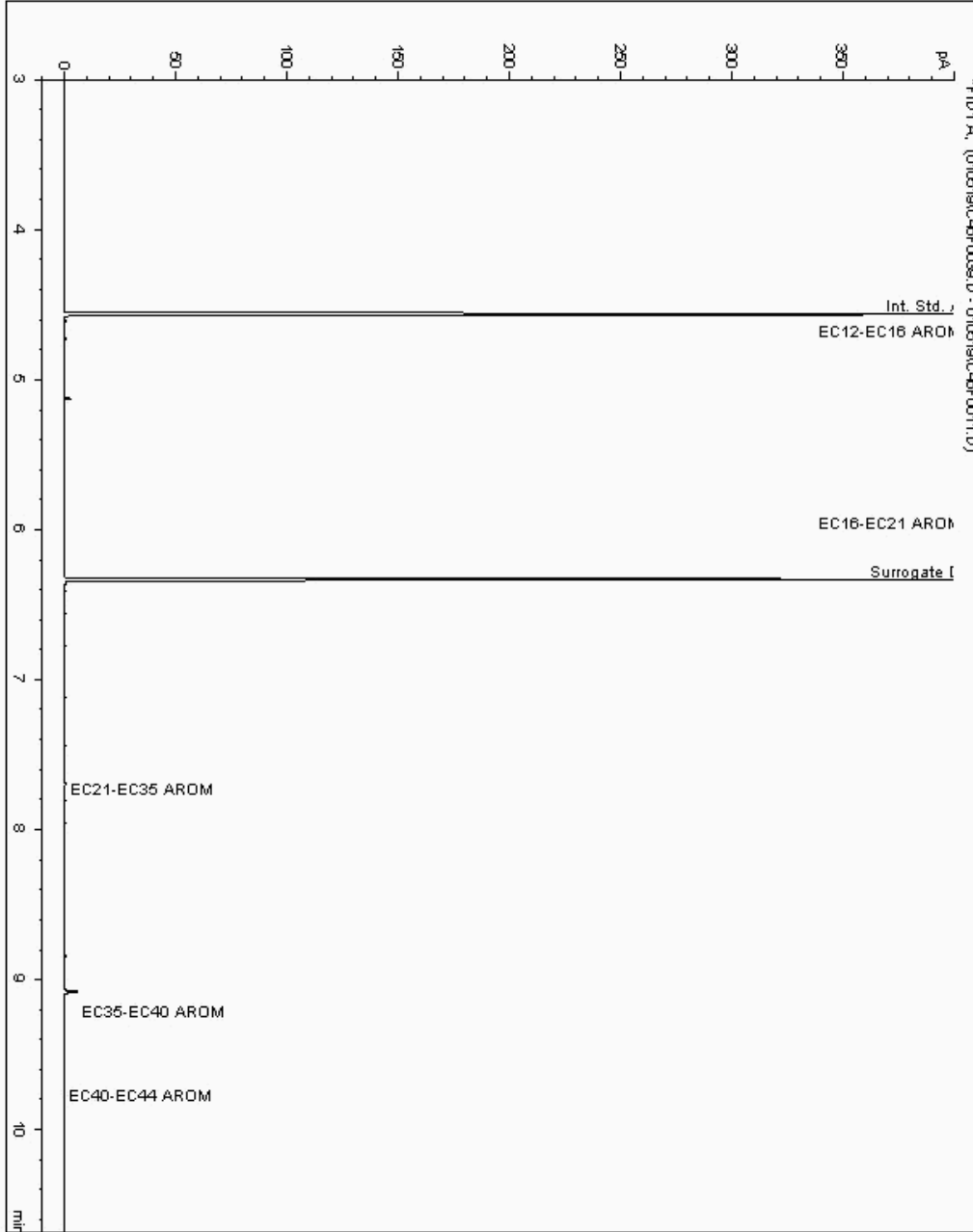
Analysis: EPH CWG (Aromatic) GC (S)
19023264

Sample No :
Sample ID : BH212

19,023,264Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875343-
Date Acquired : 05/01/2019 21:06:54 PM
Units : ppb
Dilution: BH212[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

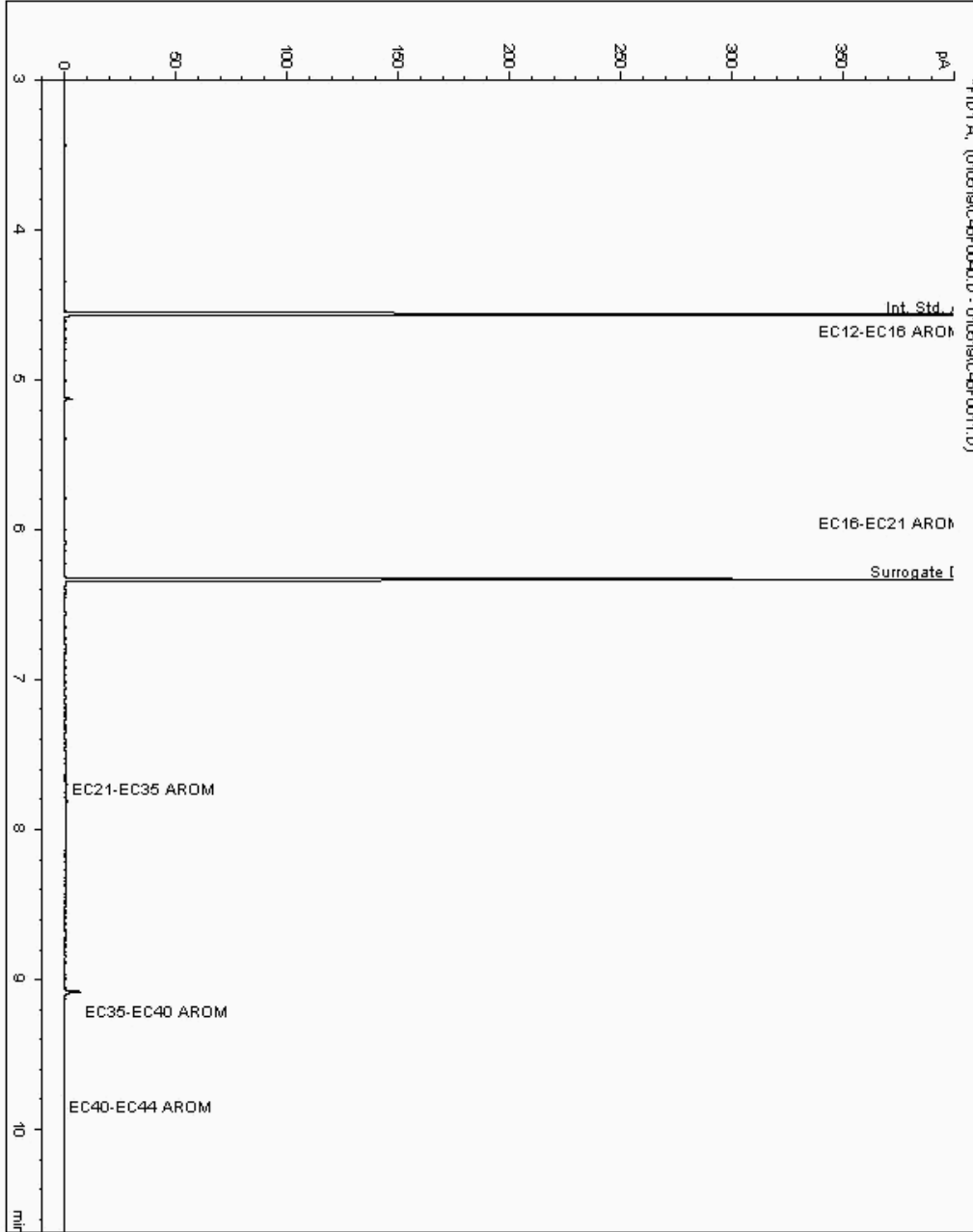
Analysis: EPH CWG (Aromatic) GC (S)
19023304

Sample No :
Sample ID : BH212

19,023,304Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875378-
Date Acquired : 05/01/2019 21:26:47 PM
Units : ppb
Dilution: BH212[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

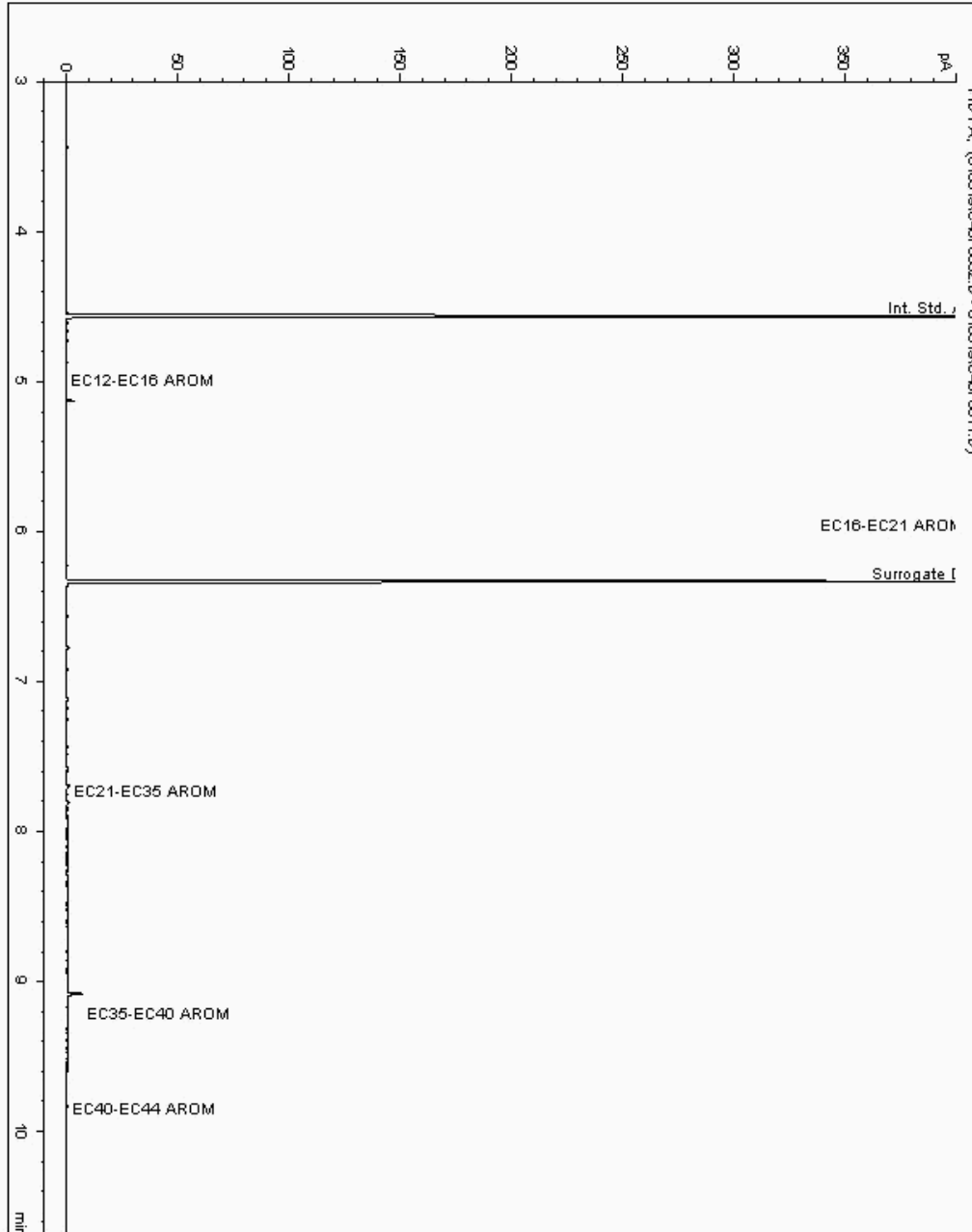
Analysis: EPH CWG (Aromatic) GC (S)
19023426

Sample No :
Sample ID : BH211

19,023,426Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874911-
Date Acquired : 05/01/2019 19:10:49 PM
Units : ppb
Dilution: BH211[15.00 - 16.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

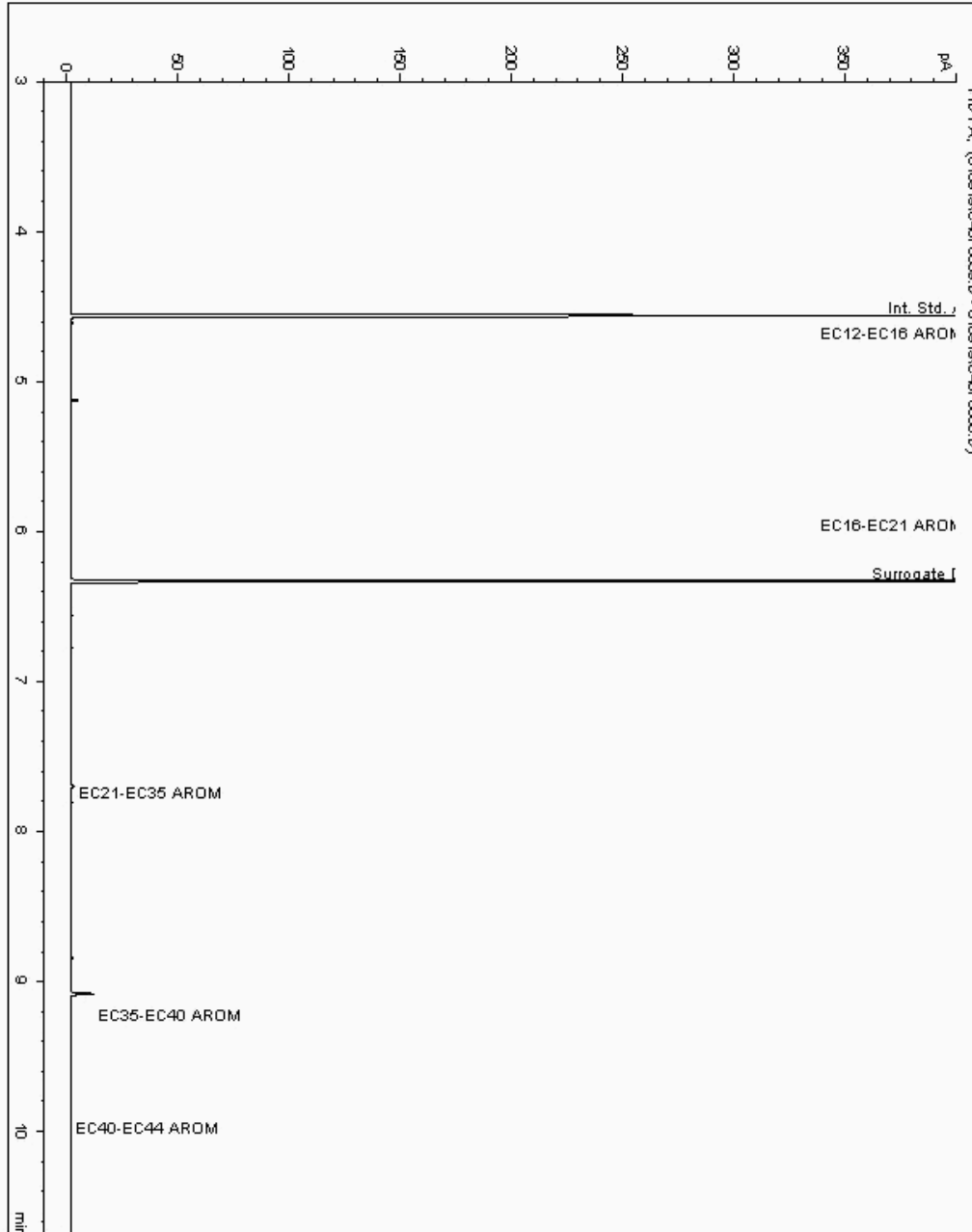
Analysis: EPH CWG (Aromatic) GC (S)
19023589

Sample No :
Sample ID : BH213

19,023,589Depth : 12.50 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875752-
Date Acquired : 10/01/2019 07:39:14 PM
Units : ppb
Dilution: BH213[12.50 - 14.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

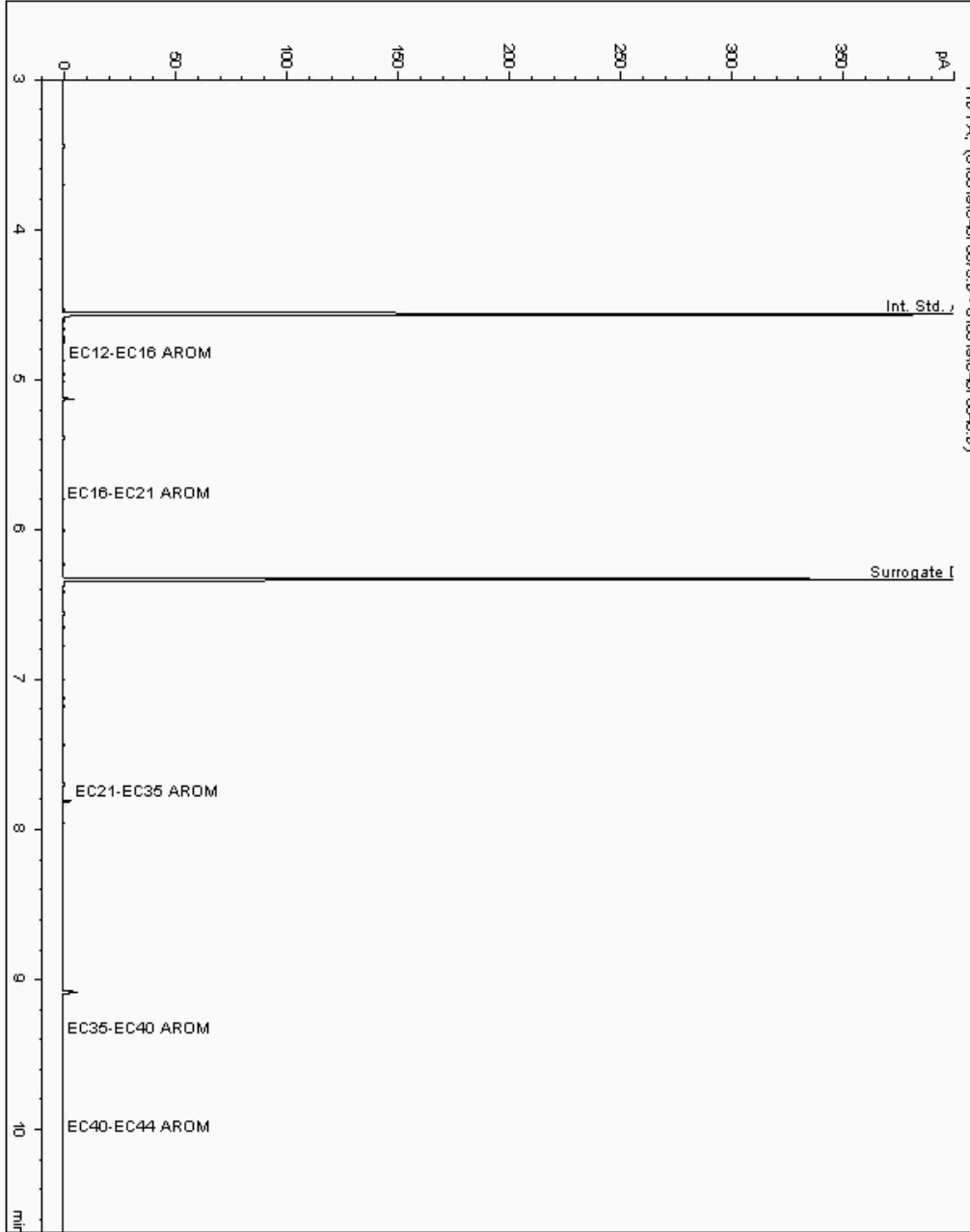
Analysis: EPH CWG (Aromatic) GC (S)
19023652

Sample No :
Sample ID : BH213

19,023,652Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875833-
Date Acquired : 08/01/2019 00:34:16 PM
Units : ppb
Dilution: BH213[16.00 - 17.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

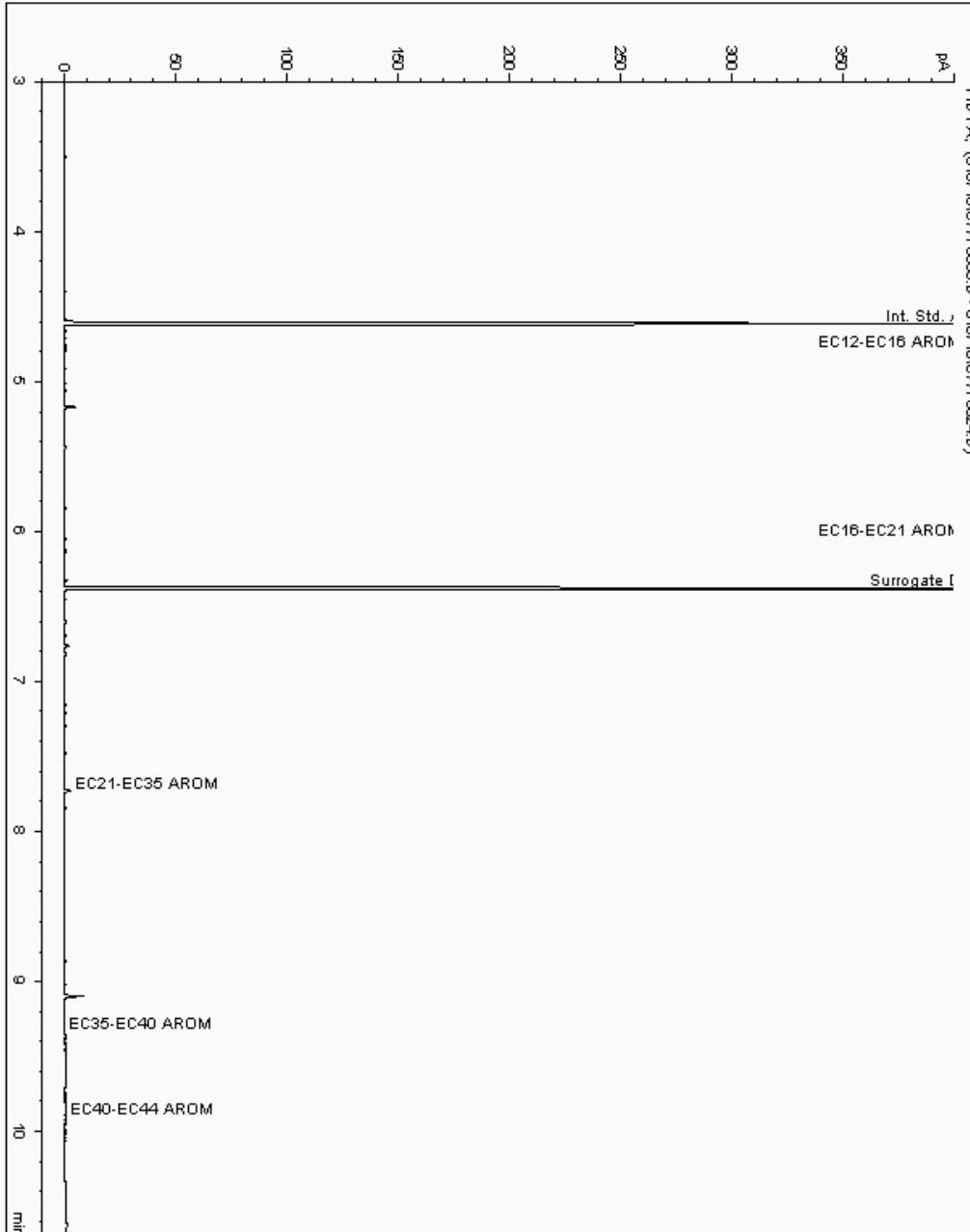
Analysis: EPH CWG (Aromatic) GC (S)
19023706

Sample No :
Sample ID : BH213

19,023,706Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875789-
Date Acquired : 1/7/2019 9:20:30 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

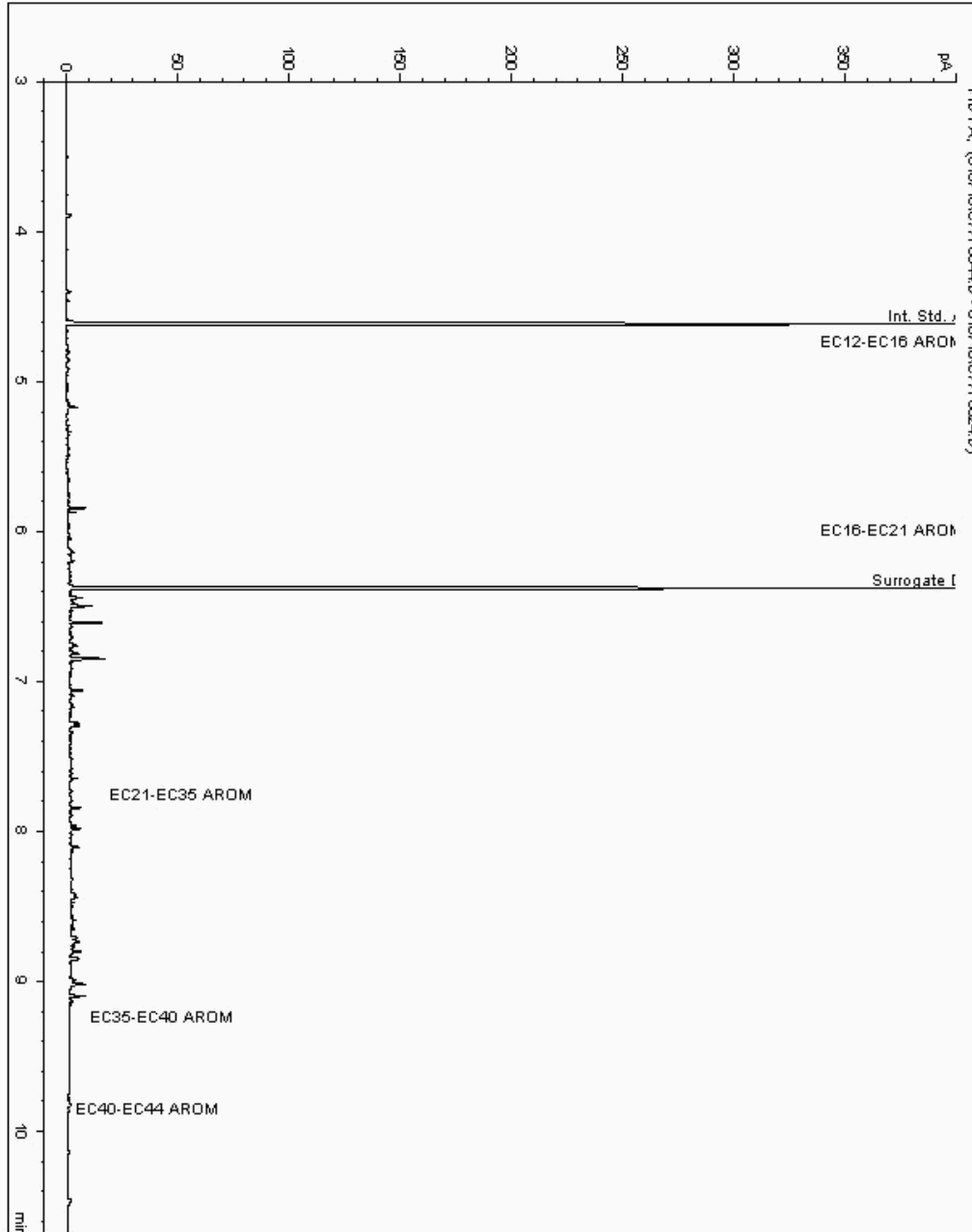
Analysis: EPH CWG (Aromatic) GC (S)
19027467

Sample No :
Sample ID : BH213

19,027,467Depth :5.00 - 6.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875632-
Date Acquired : 1/8/2019 12:35:53 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

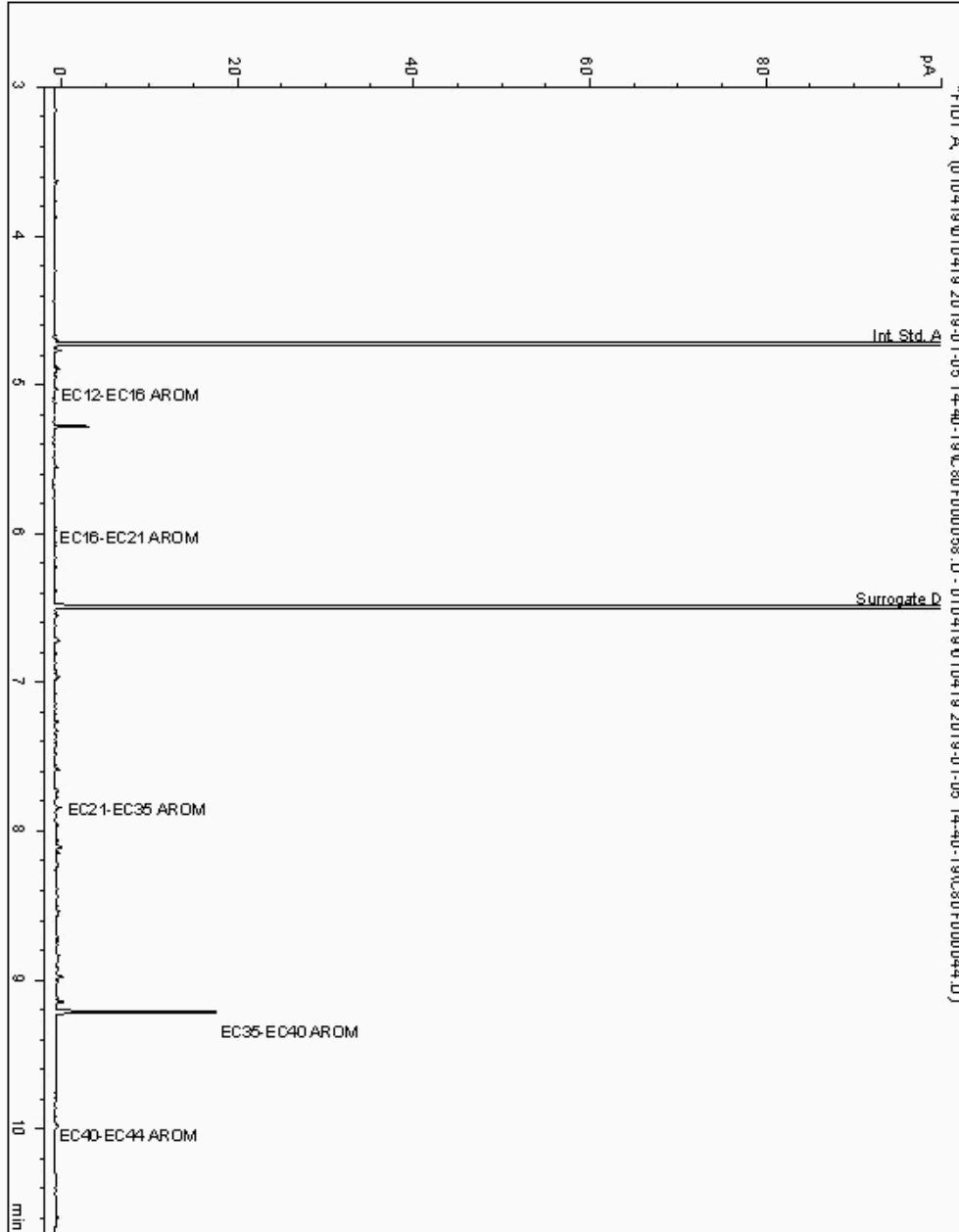
Analysis: EPH CWG (Aromatic) GC (S)
19027526

Sample No :
Sample ID : BH212

19,027,526Depth : 7.00 - 8.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17875200-
Date Acquired : 05/01/19 20:03:30
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

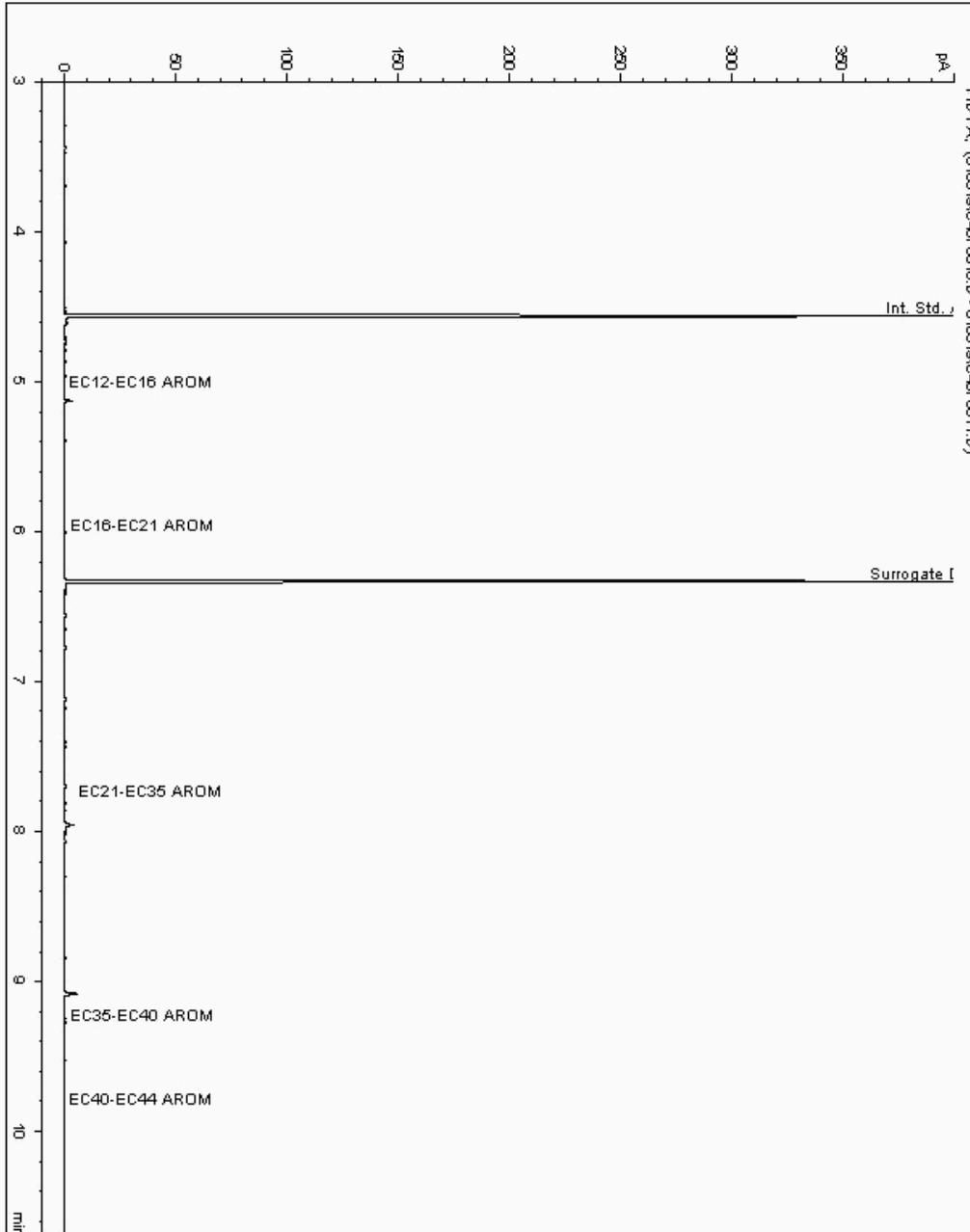
Analysis: EPH CWG (Aromatic) GC (S)
19027611

Sample No :
Sample ID : BH212

19,027,611 Depth : 10.50 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875257-
Date Acquired : 05/01/2019 15:10:58 PM
Units : ppb
Dilution: BH212[10.50 - 12.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

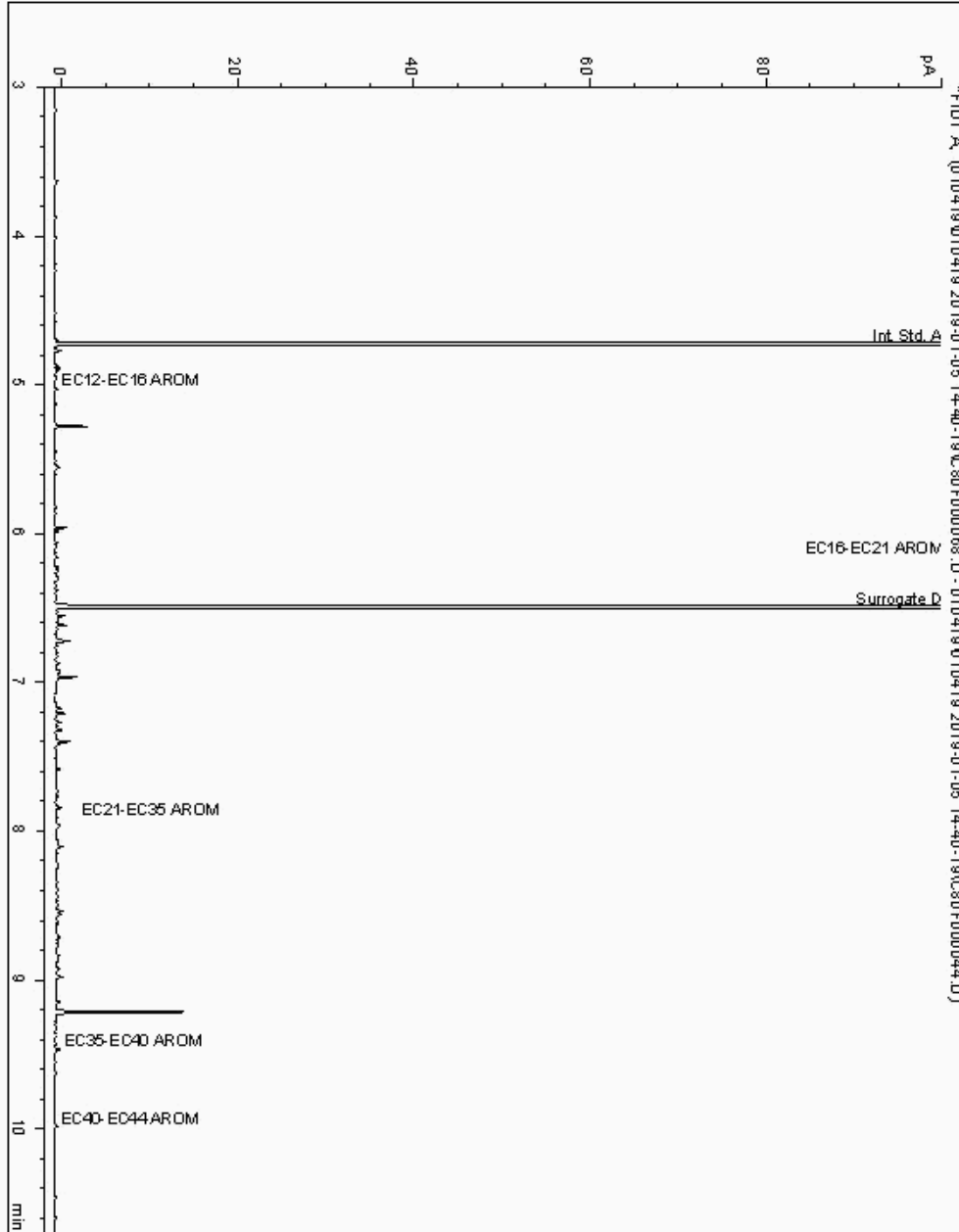
Analysis: EPH CWG (Aromatic) GC (S)
19027648

Sample No :
Sample ID : BH213

19,027,648 Depth : 9.00 - 10.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17875678-
Date Acquired : 05/01/19 22:57:35
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

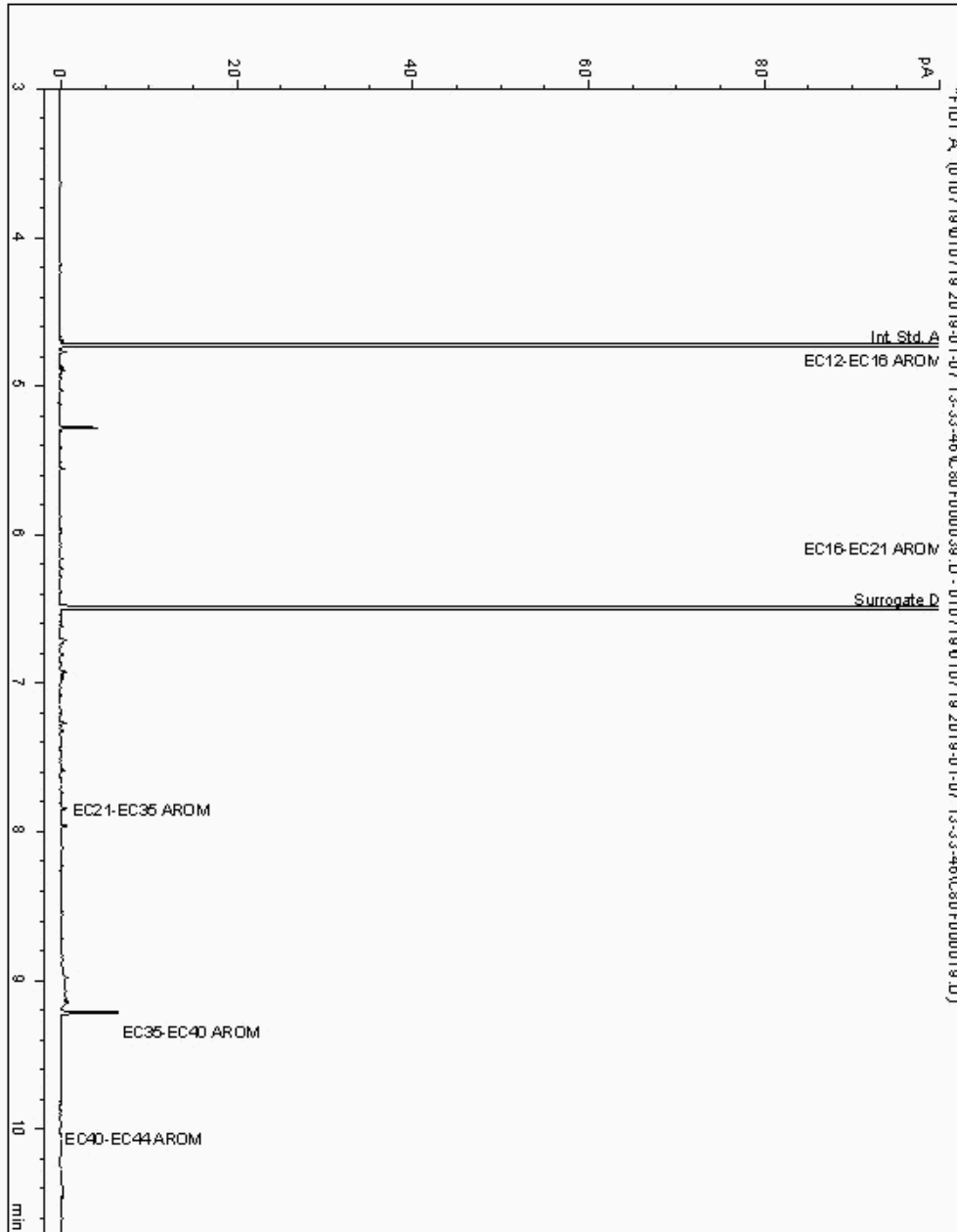
Analysis: EPH CWG (Aromatic) GC (S)
19027662

Sample No :
Sample ID : BH211

19,027,662Depth :9.00 - 10.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17874819-
Date Acquired : 08/01/19 01:20:17
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

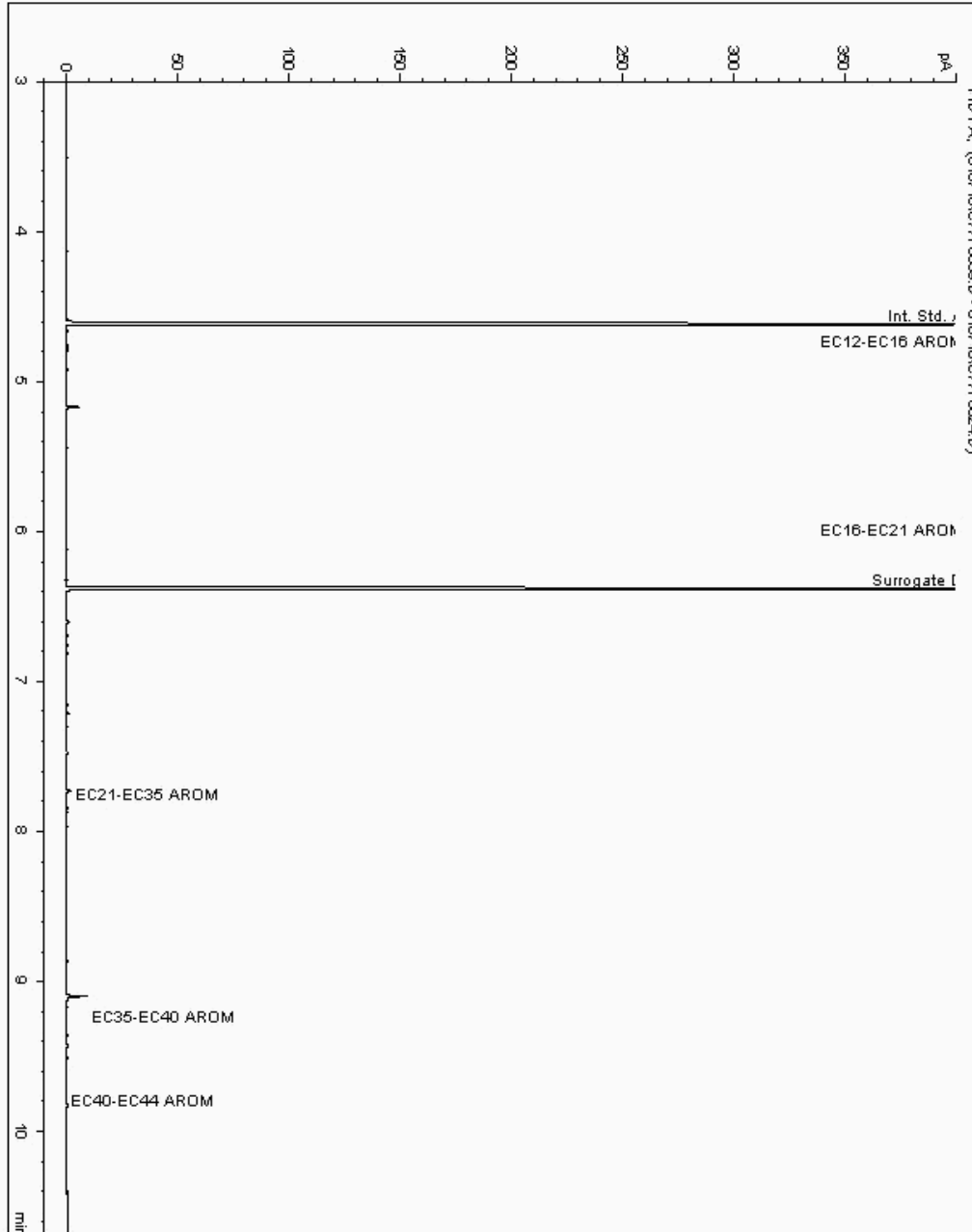
Analysis: EPH CWG (Aromatic) GC (S)
19027678

Sample No :
Sample ID : BH213

19,027,678 Depth : 10.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875725-
Date Acquired : 1/7/2019 11:11:51 PM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

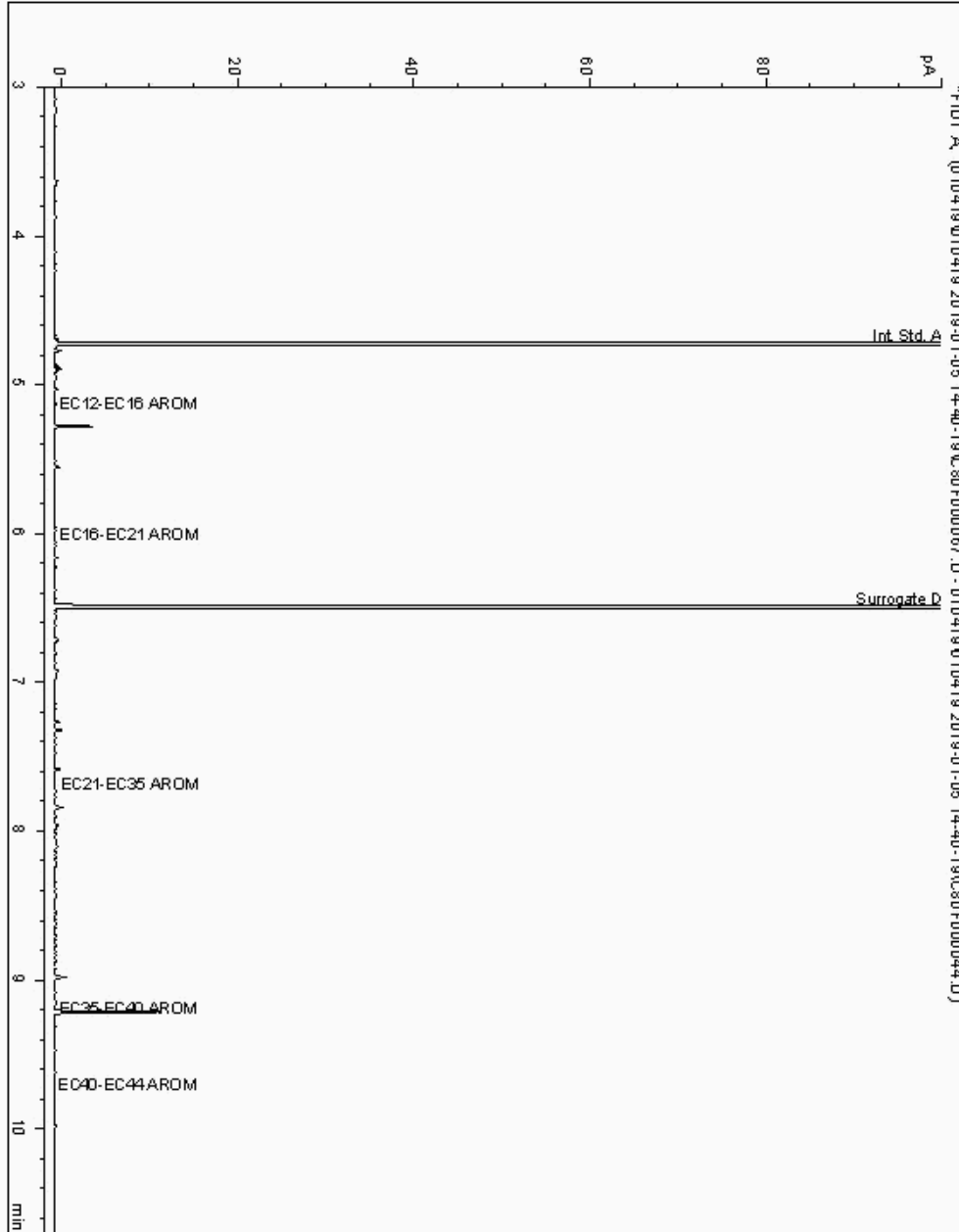
Analysis: EPH CWG (Aromatic) GC (S)
19027812

Sample No :
Sample ID : BH212

19,027,812 Depth : 9.00 - 10.50

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17875229-
Date Acquired : 05/01/19 22:37:39
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

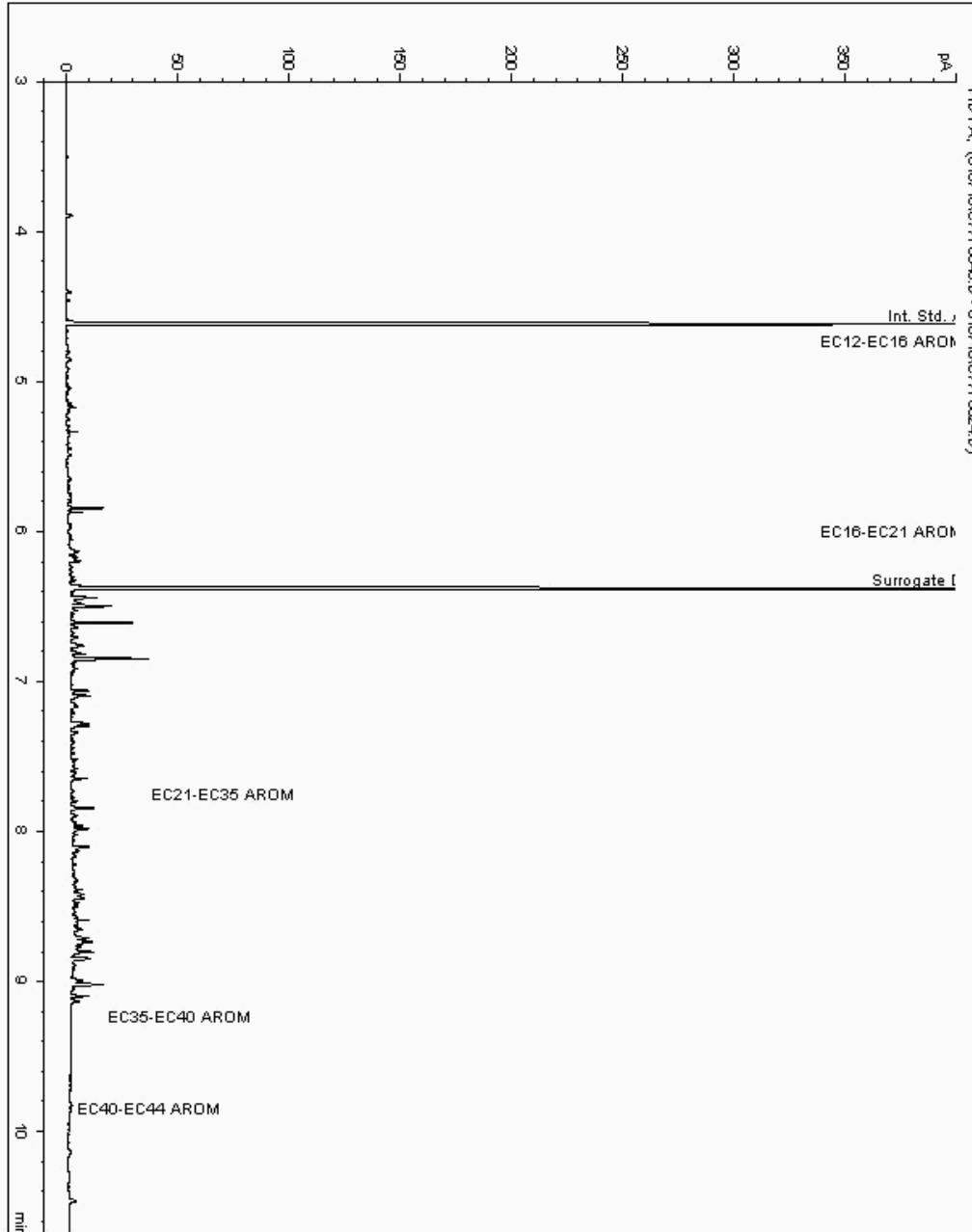
Analysis: EPH CWG (Aromatic) GC (S)
19028376

Sample No :
Sample ID : BH211

19,028,376Depth :3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874721-
Date Acquired : 1/8/2019 1:47:35 AM
Units : ppb
Dilution:





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

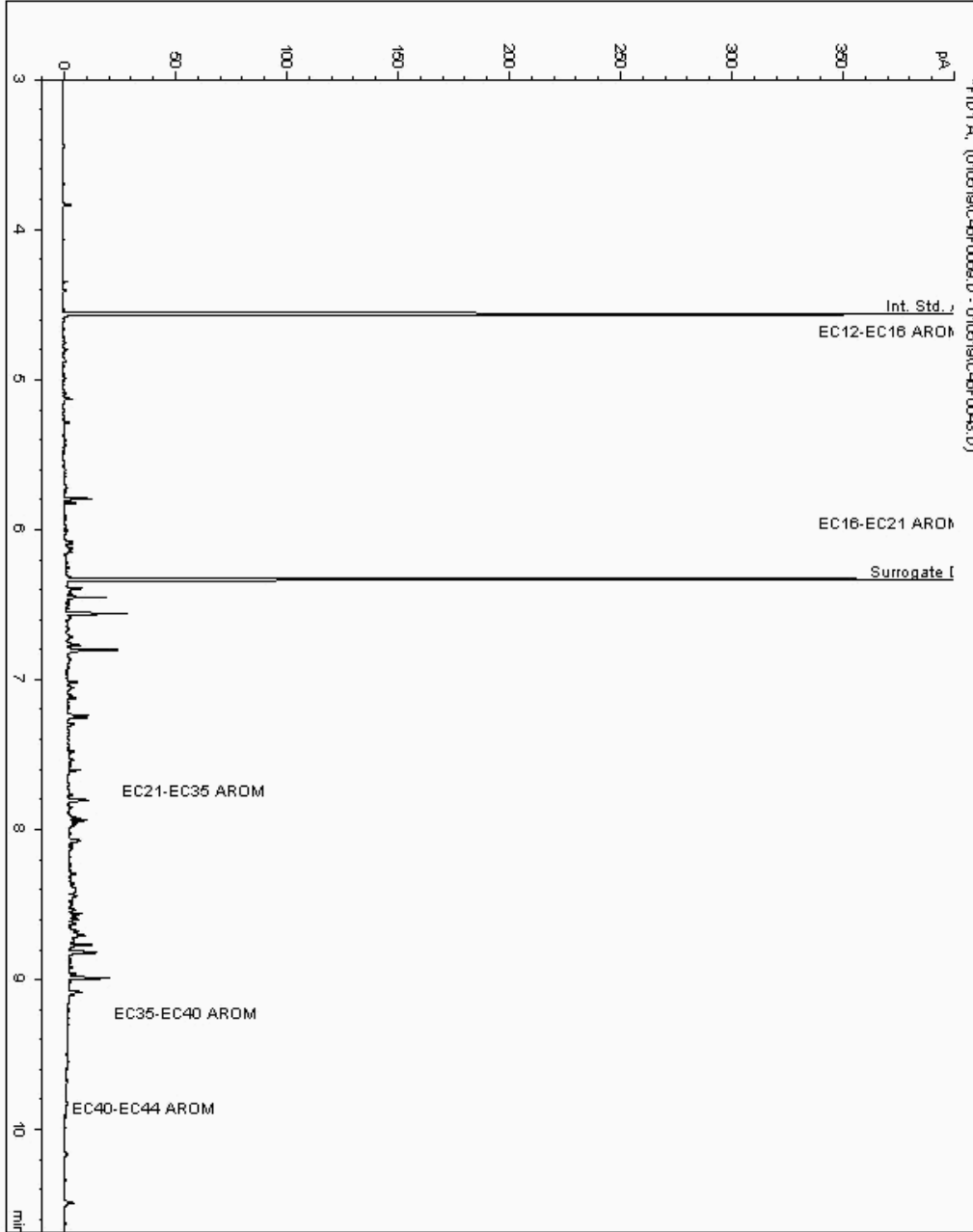
Analysis: EPH CWG (Aromatic) GC (S)
19028382

Sample No :
Sample ID : BH213

19,028,382 Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875609-
Date Acquired : 07/01/2019 22:57:11 PM
Units : ppb
Dilution: BH213[4.00 - 5.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

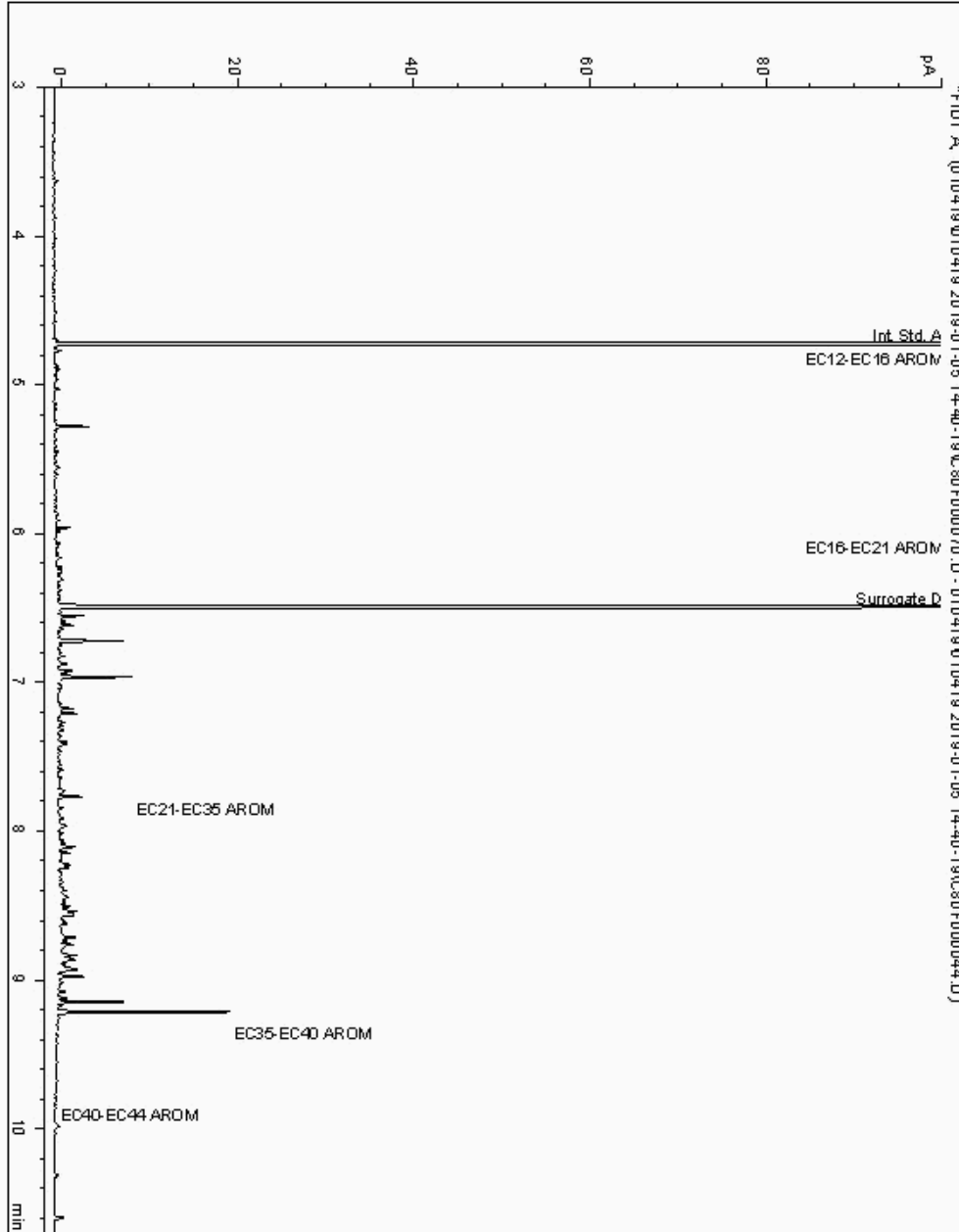
Analysis: EPH CWG (Aromatic) GC (S)
19028394

Sample No :
Sample ID : BH212

19,028,394Depth :4.50 - 6.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17875067-
Date Acquired : 05/01/19 23:36:56
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

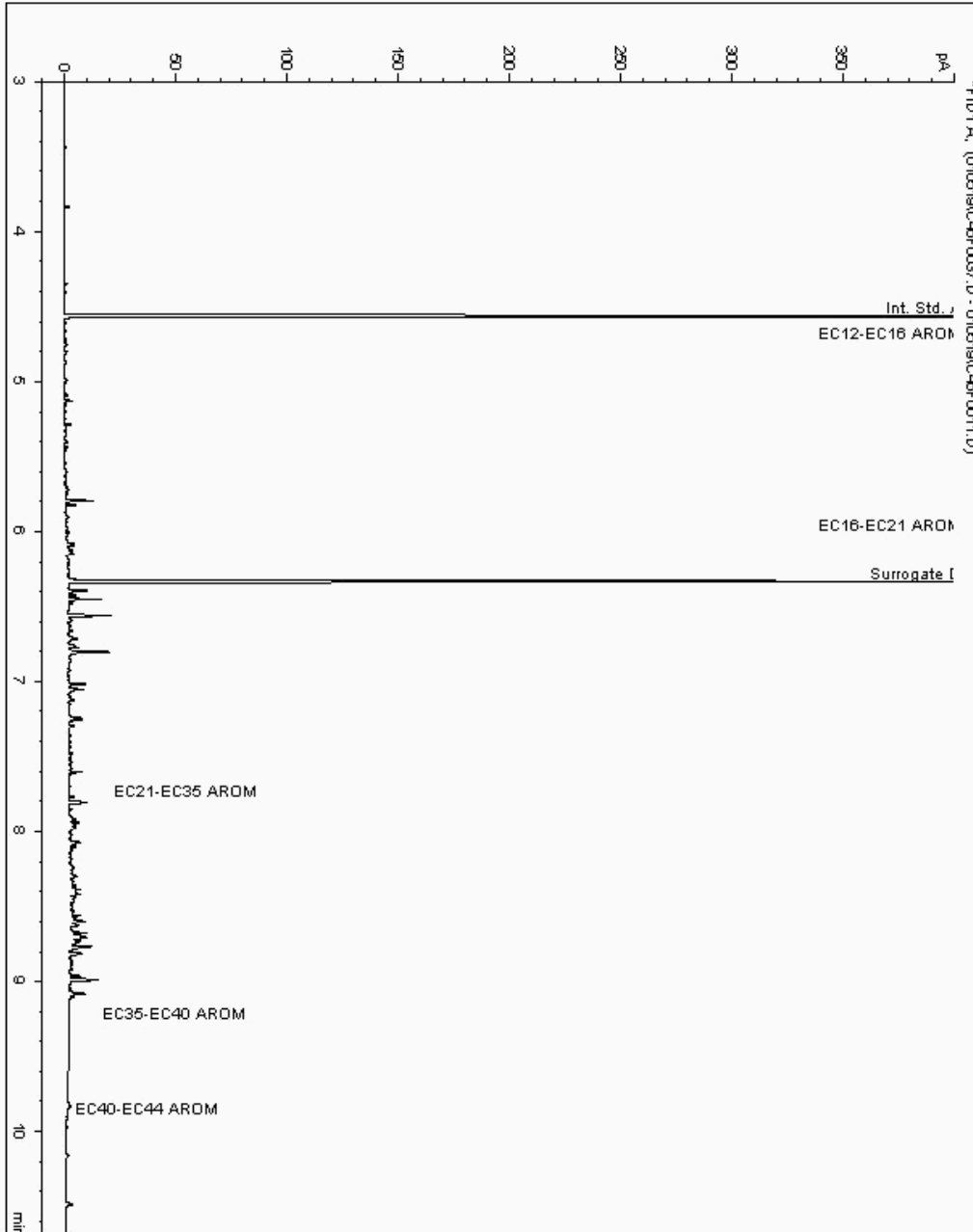
Analysis: EPH CWG (Aromatic) GC (S)
19028414

Sample No :
Sample ID : BH211

19,028,414Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874657-
Date Acquired : 05/01/2019 20:34:36 PM
Units : ppb
Dilution: BH211[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

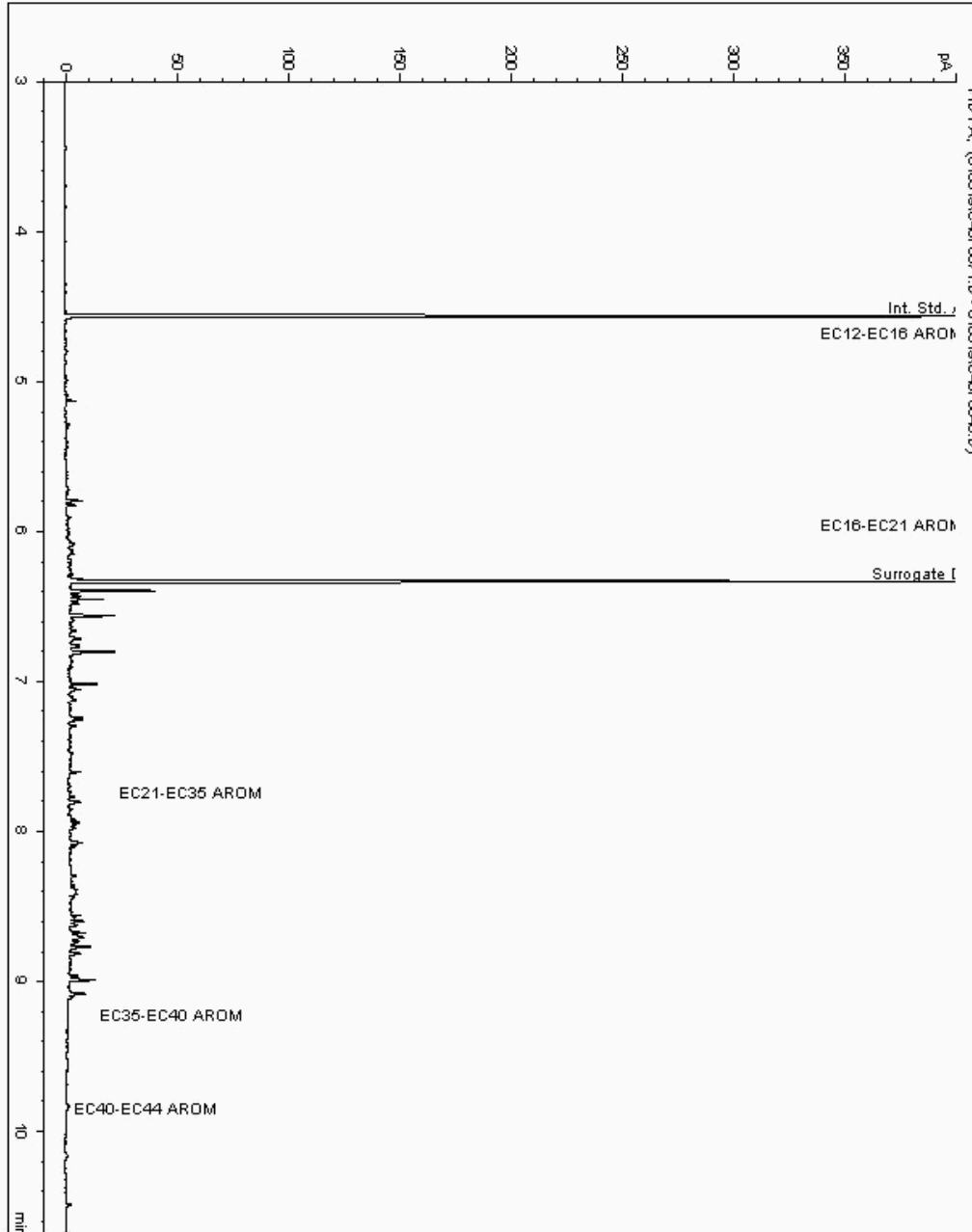
Analysis: EPH CWG (Aromatic) GC (S)
19028425

Sample No :
Sample ID : BH211

19,028,425Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874620-
Date Acquired : 07/01/2019 23:29:29 PM
Units : ppb
Dilution: BH211[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

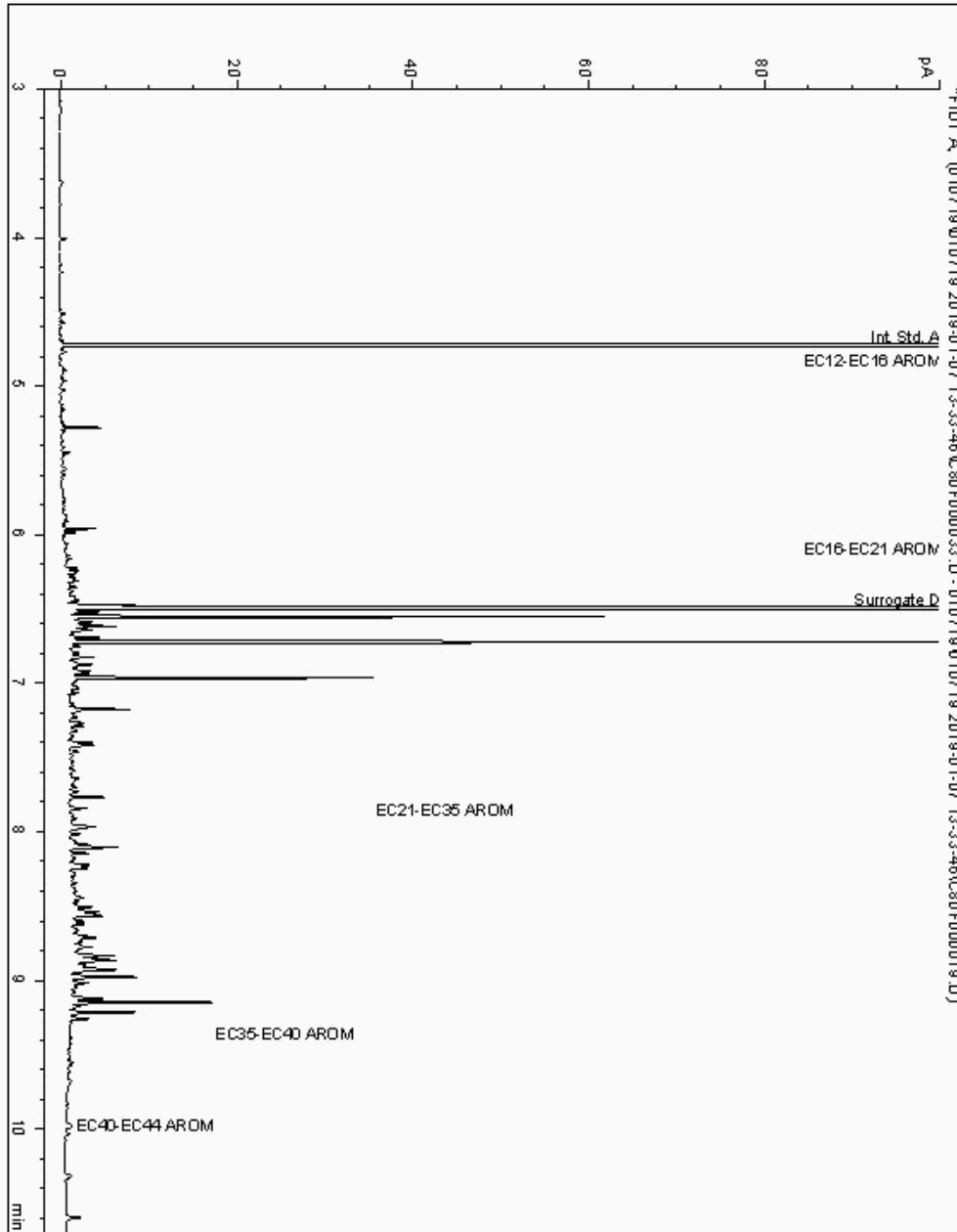
Analysis: EPH CWG (Aromatic) GC (S)
19028431

Sample No :
Sample ID : BH212

19,028,431 Depth : 3.00 - 4.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17875013-
Date Acquired : 07/01/19 23:35:38
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

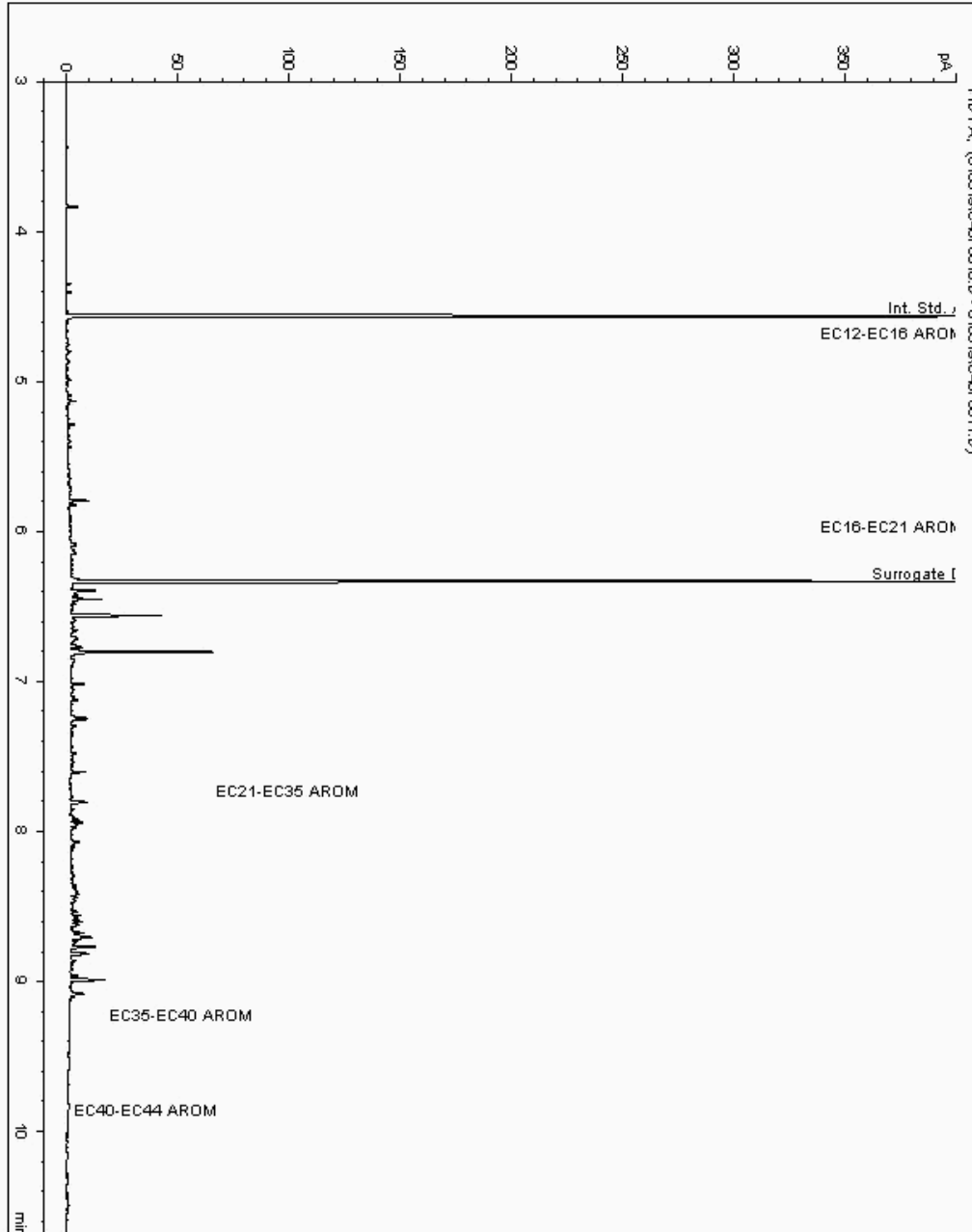
Analysis: EPH CWG (Aromatic) GC (S)
19028463

Sample No :
Sample ID : BH212

19,028,463Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874986-
Date Acquired : 05/01/2019 14:39:12 PM
Units : ppb
Dilution: BH212[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

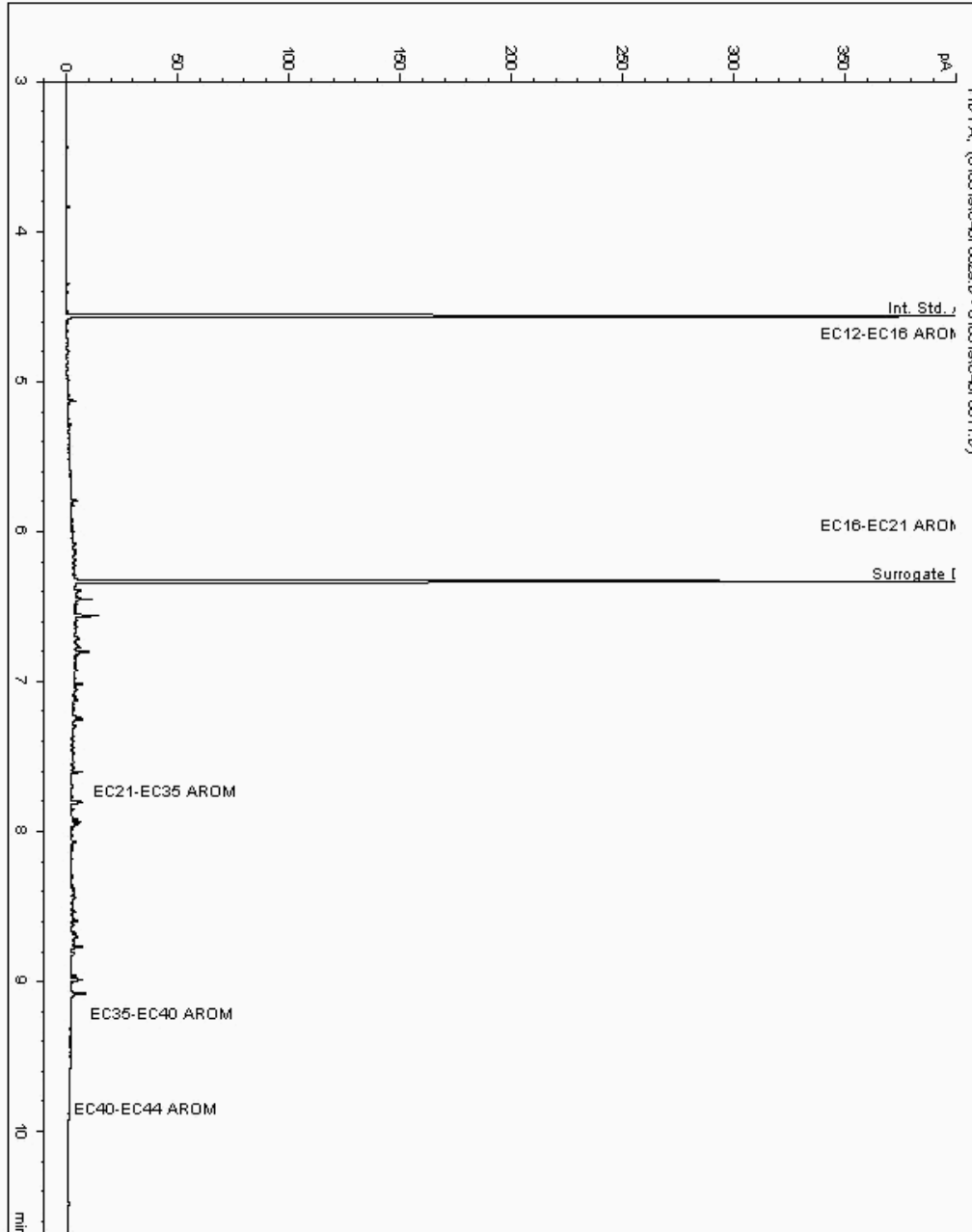
Analysis: EPH CWG (Aromatic) GC (S)
19028566

Sample No :
Sample ID : BH212

19,028,566Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874963-
Date Acquired : 05/01/2019 18:18:47 PM
Units : ppb
Dilution: BH212[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

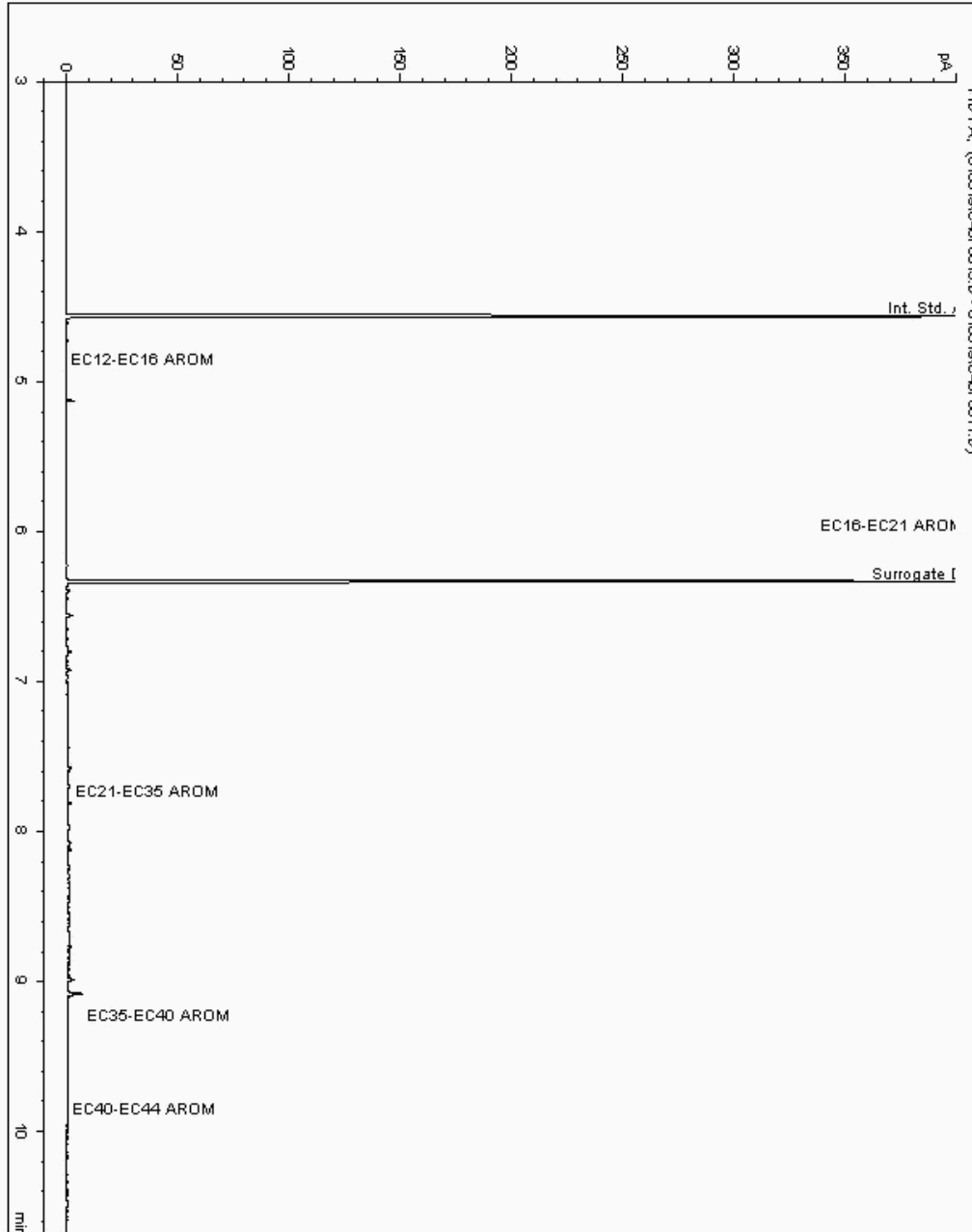
Analysis: EPH CWG (Aromatic) GC (S)
19028586

Sample No :
Sample ID : BH212

19,028,586Depth :6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875161-
Date Acquired : 05/01/2019 14:19:25 PM
Units : ppb
Dilution: BH212[6.00 - 7.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

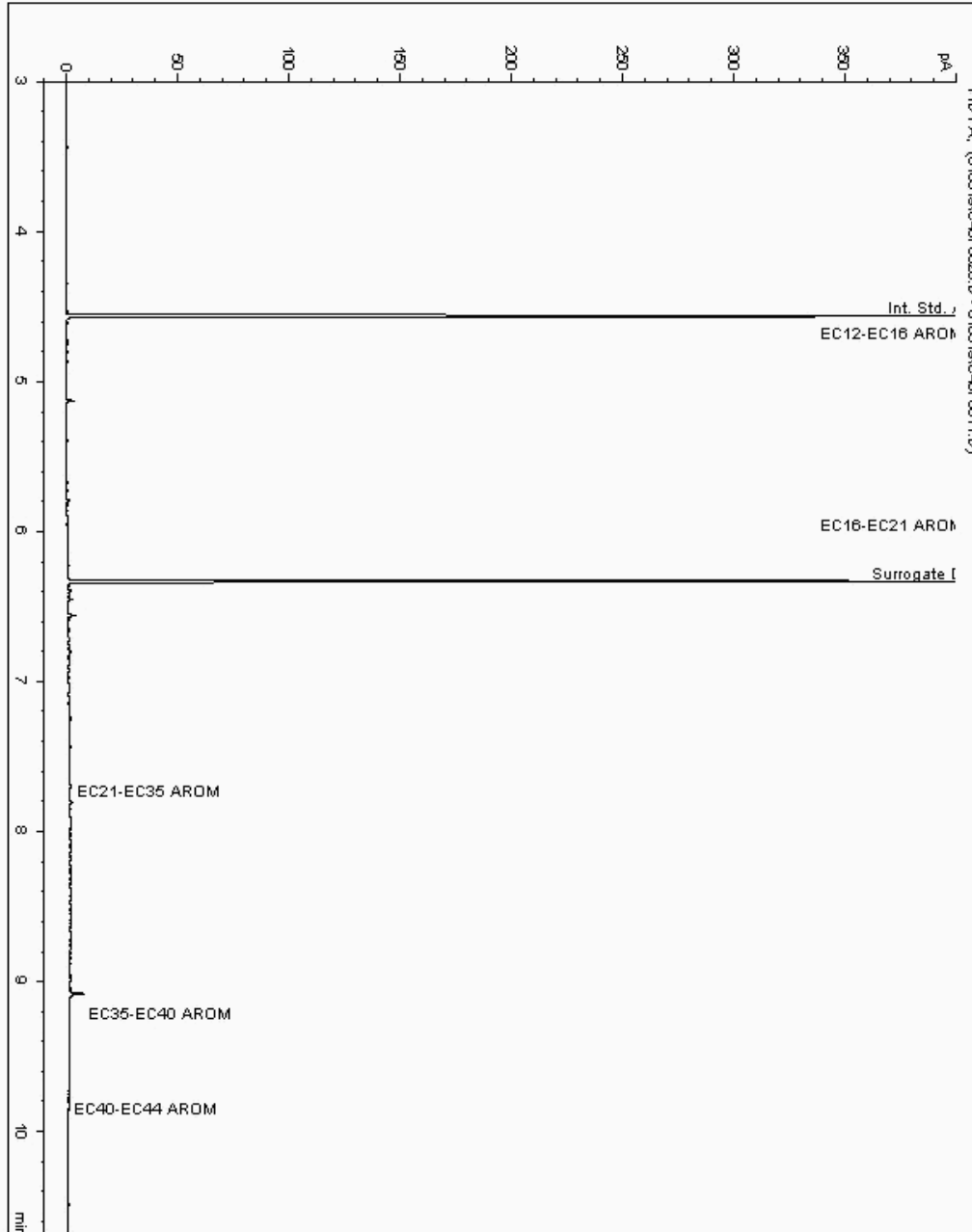
Analysis: EPH CWG (Aromatic) GC (S)
19028619

Sample No :
Sample ID : BH212

19,028,619 Depth : 0.00 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874939-
Date Acquired : 05/01/2019 17:58:58 PM
Units : ppb
Dilution: BH212[0.00 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

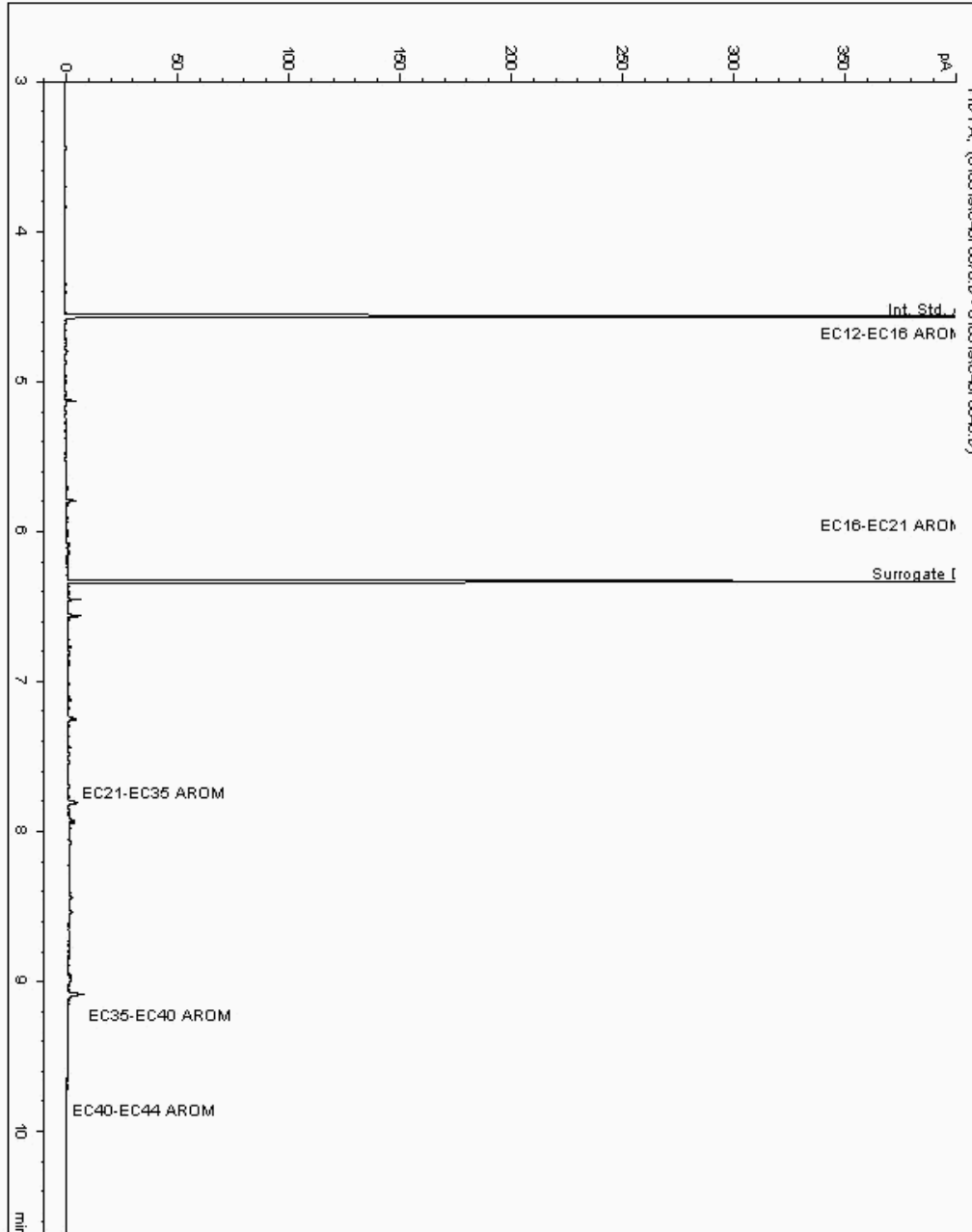
Analysis: EPH CWG (Aromatic) GC (S)
19028665

Sample No :
Sample ID : BH213

19,028,665Depth :0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875449-
Date Acquired : 08/01/2019 00:54:39 PM
Units : ppb
Dilution: BH213[0.00 - 0.50] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

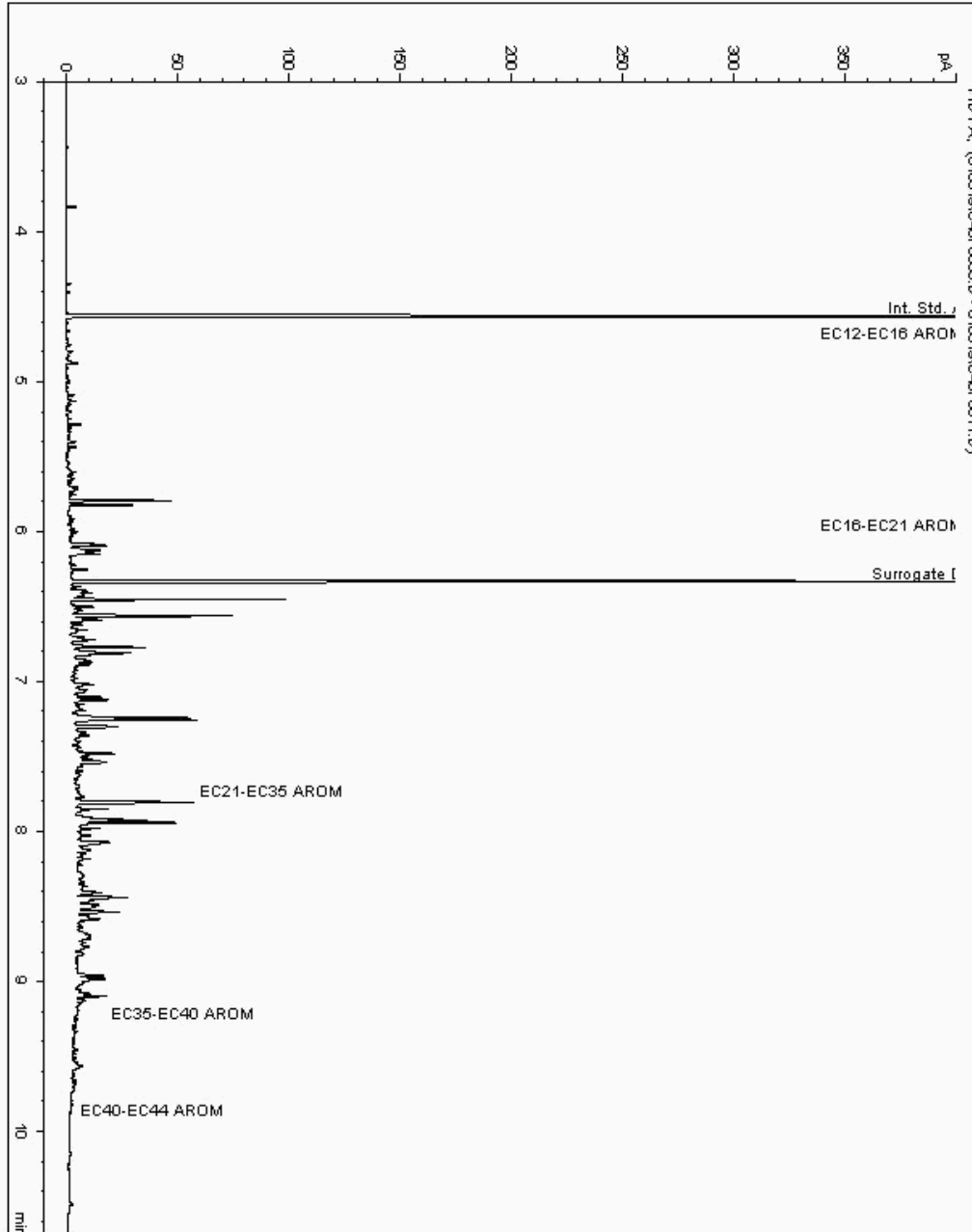
Analysis: EPH CWG (Aromatic) GC (S)
19028678

Sample No :
Sample ID : BH213

19,028,678 Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875474-
Date Acquired : 05/01/2019 19:30:36 PM
Units : ppb
Dilution: BH213[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

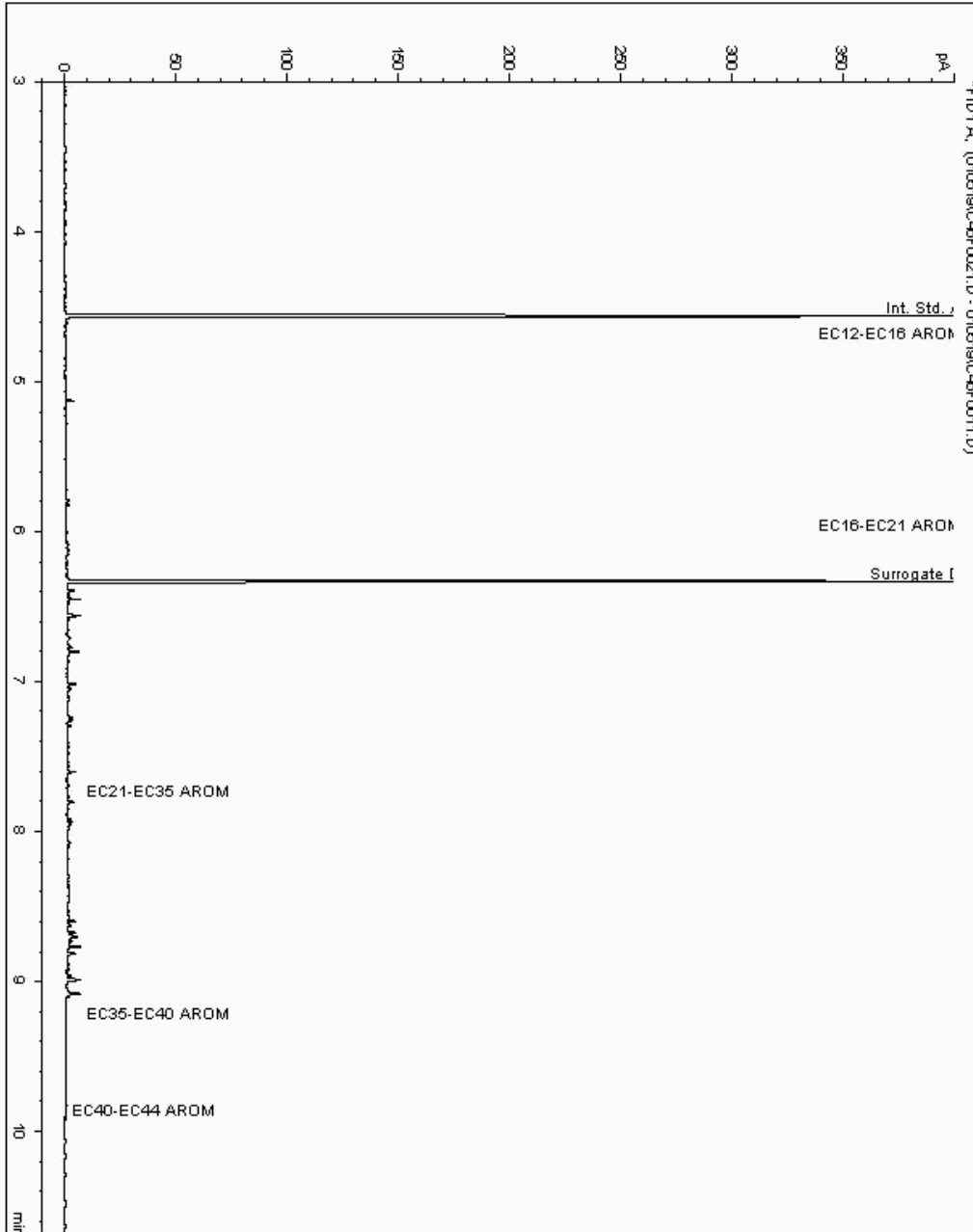
Analysis: EPH CWG (Aromatic) GC (S)
19028690

Sample No :
Sample ID : BH211

19,028,690Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17874577-
Date Acquired : 05/01/2019 16:02:43 PM
Units : ppb
Dilution: BH211[0.50 - 1.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

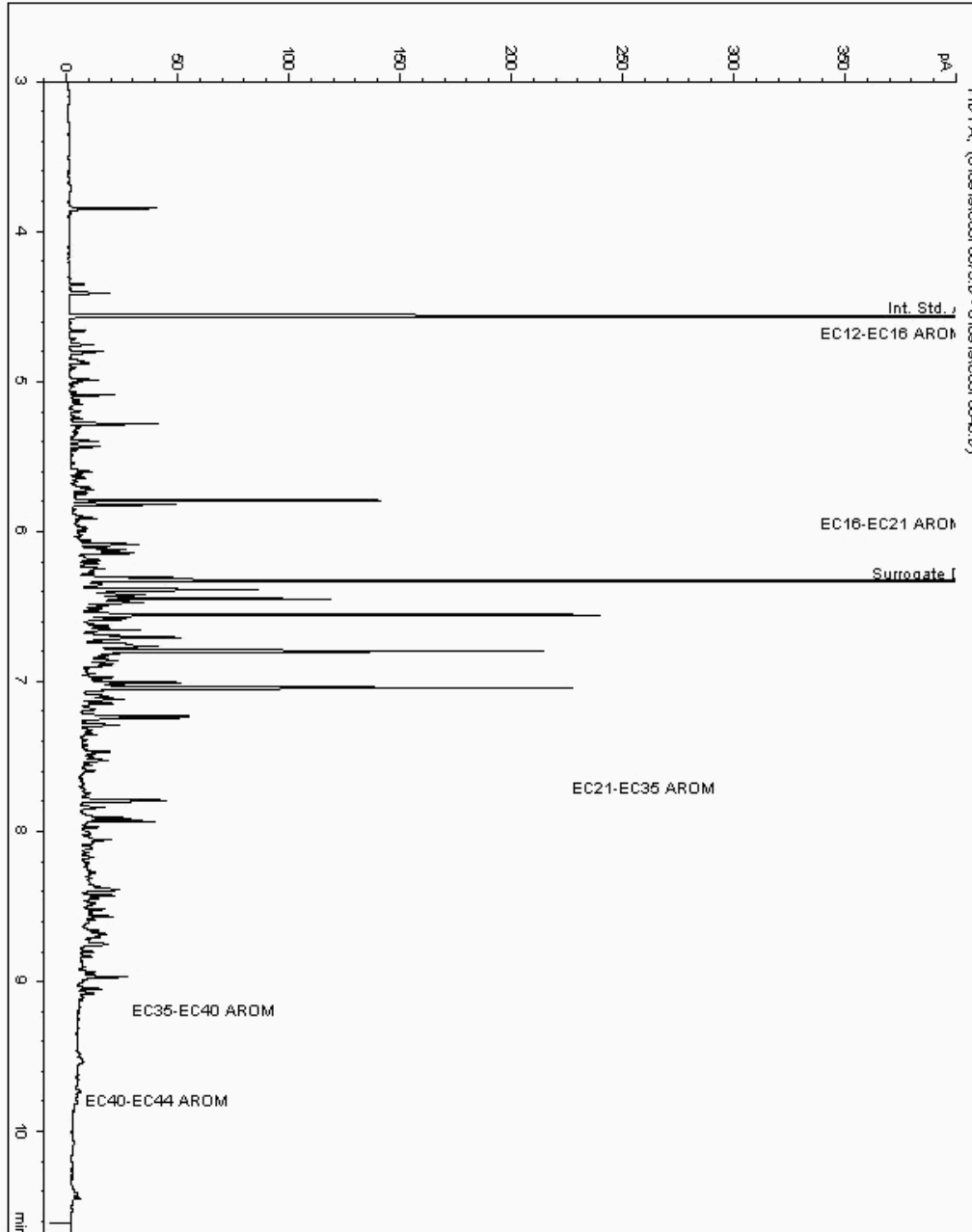
Analysis: EPH CWG (Aromatic) GC (S)
19028701

Sample No :
Sample ID : BH213

19,028,701 Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875512-
Date Acquired : 10/01/2019 09:18:49 PM
Units : ppb
Dilution: BH213[1.00 - 2.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

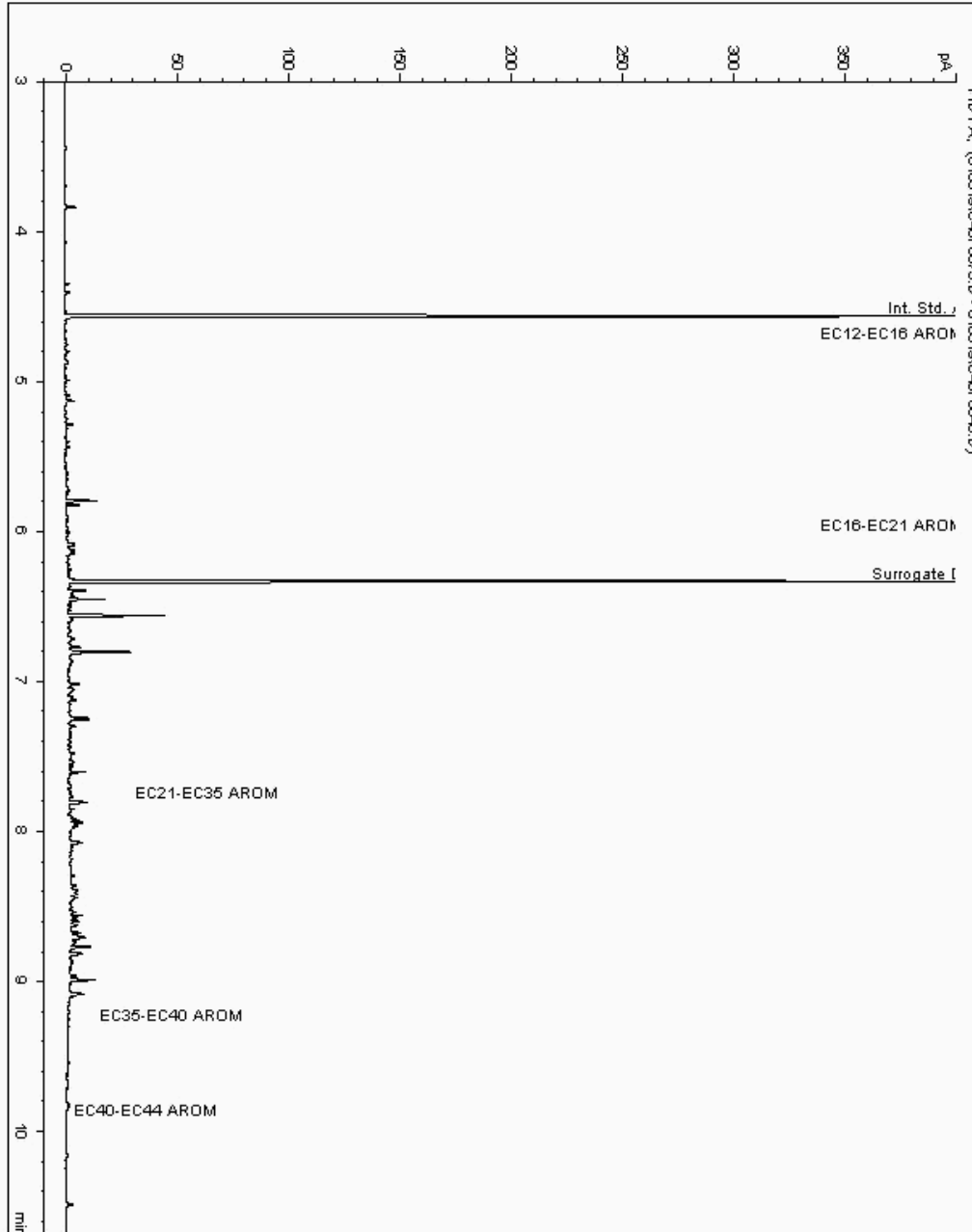
Analysis: EPH CWG (Aromatic) GC (S)
19028707

Sample No :
Sample ID : BH213

19,028,707Depth :2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875555-
Date Acquired : 08/01/2019 00:01:50 PM
Units : ppb
Dilution: BH213[2.00 - 3.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

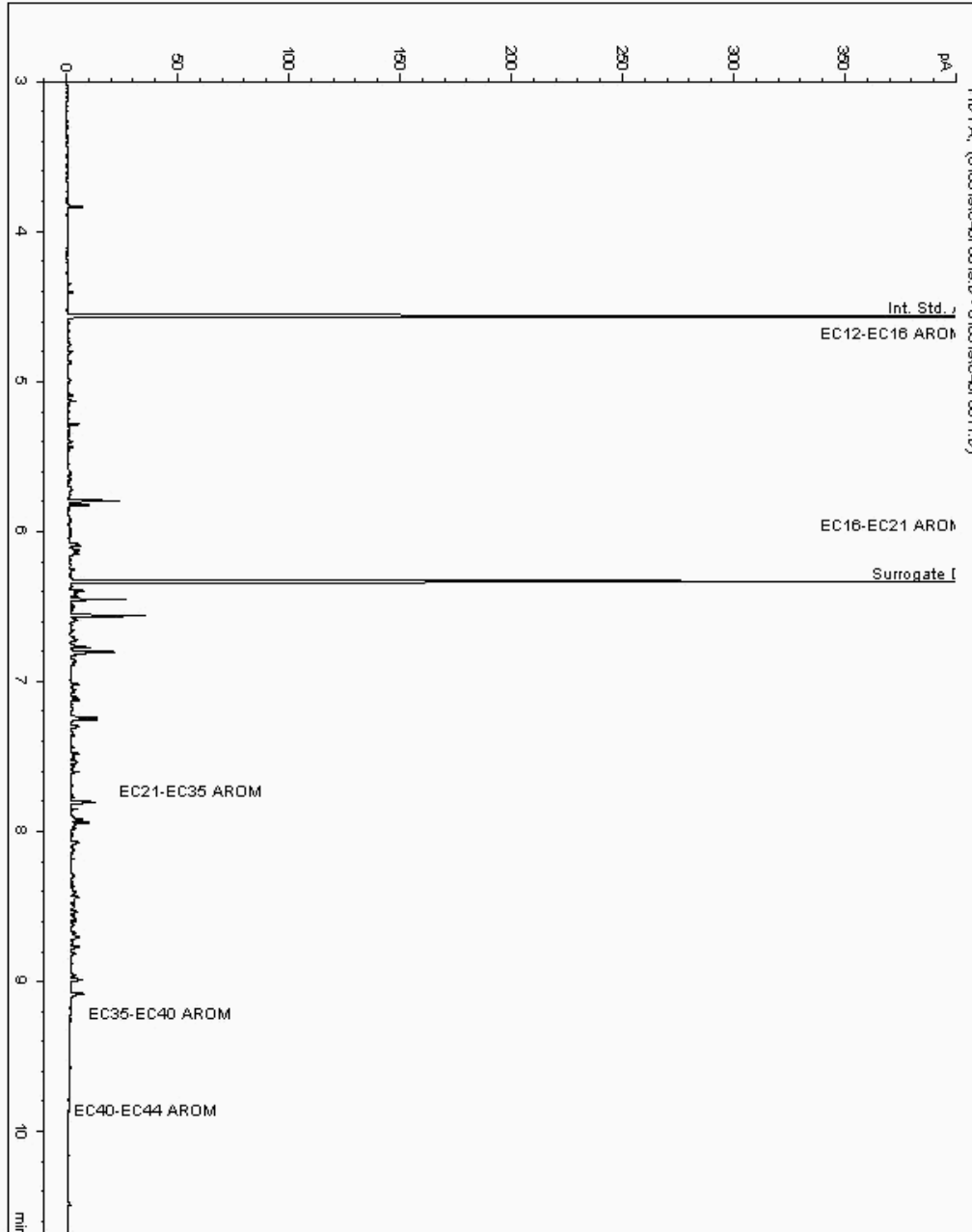
Analysis: EPH CWG (Aromatic) GC (S)
19028713

Sample No :
Sample ID : BH213

19,028,713 Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17875582-
Date Acquired : 05/01/2019 15:30:59 PM
Units : ppb
Dilution: BH213[3.00 - 4.00] ->





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

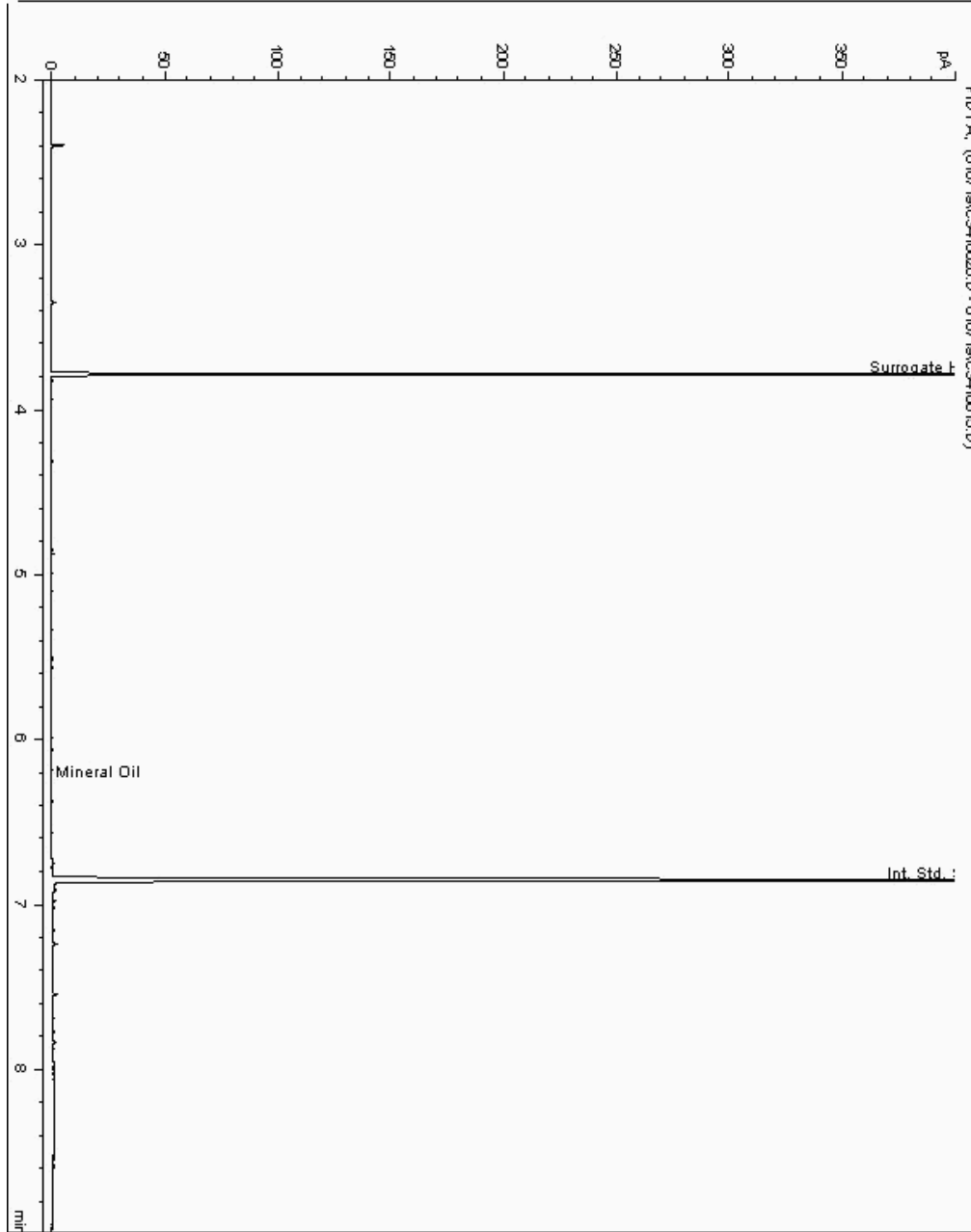
Analysis: Mineral Oil
19022029

Sample No :
Sample ID : BH211

19,022,029Depth :4.50 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874770-
Date Acquired : 07/01/19 19:11:01 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

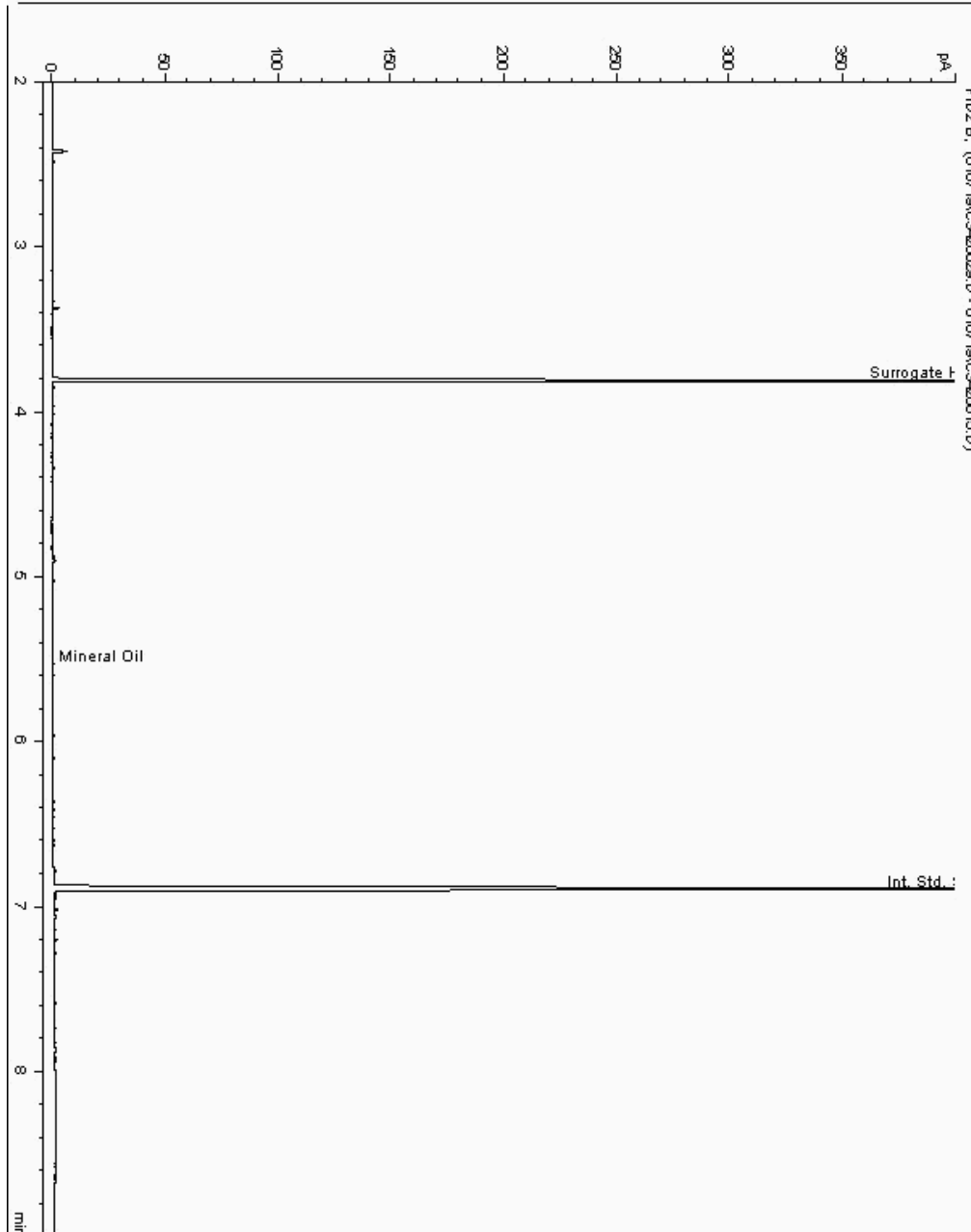
Analysis: Mineral Oil
19022350

Sample No :
Sample ID : BH211

19,022,350 Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874793-
Date Acquired : 07/01/19 20:03:50 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

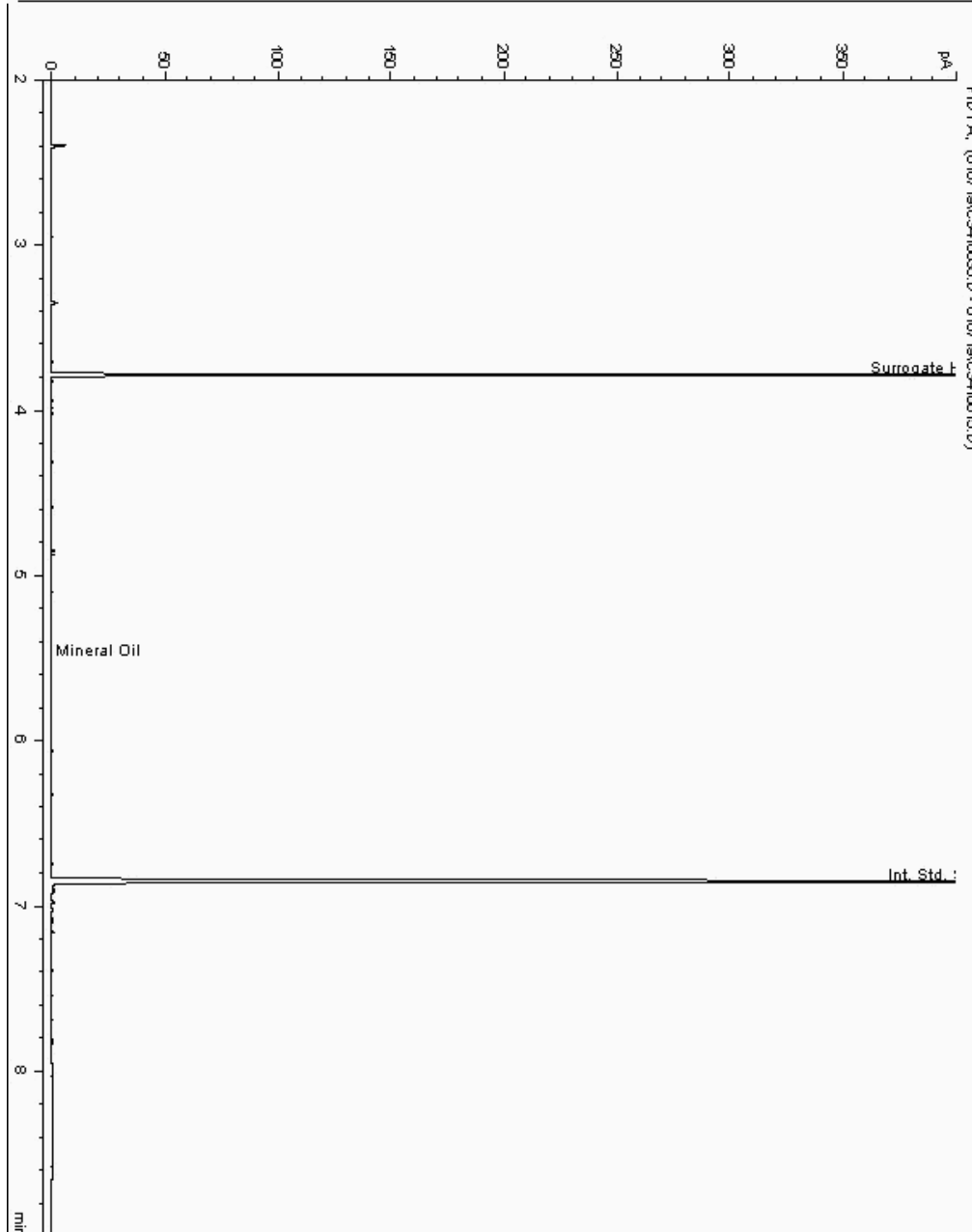
Analysis: Mineral Oil
19022879

Sample No :
Sample ID : BH212

19,022,879 Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875314-
Date Acquired : 07/01/19 21:56:26 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

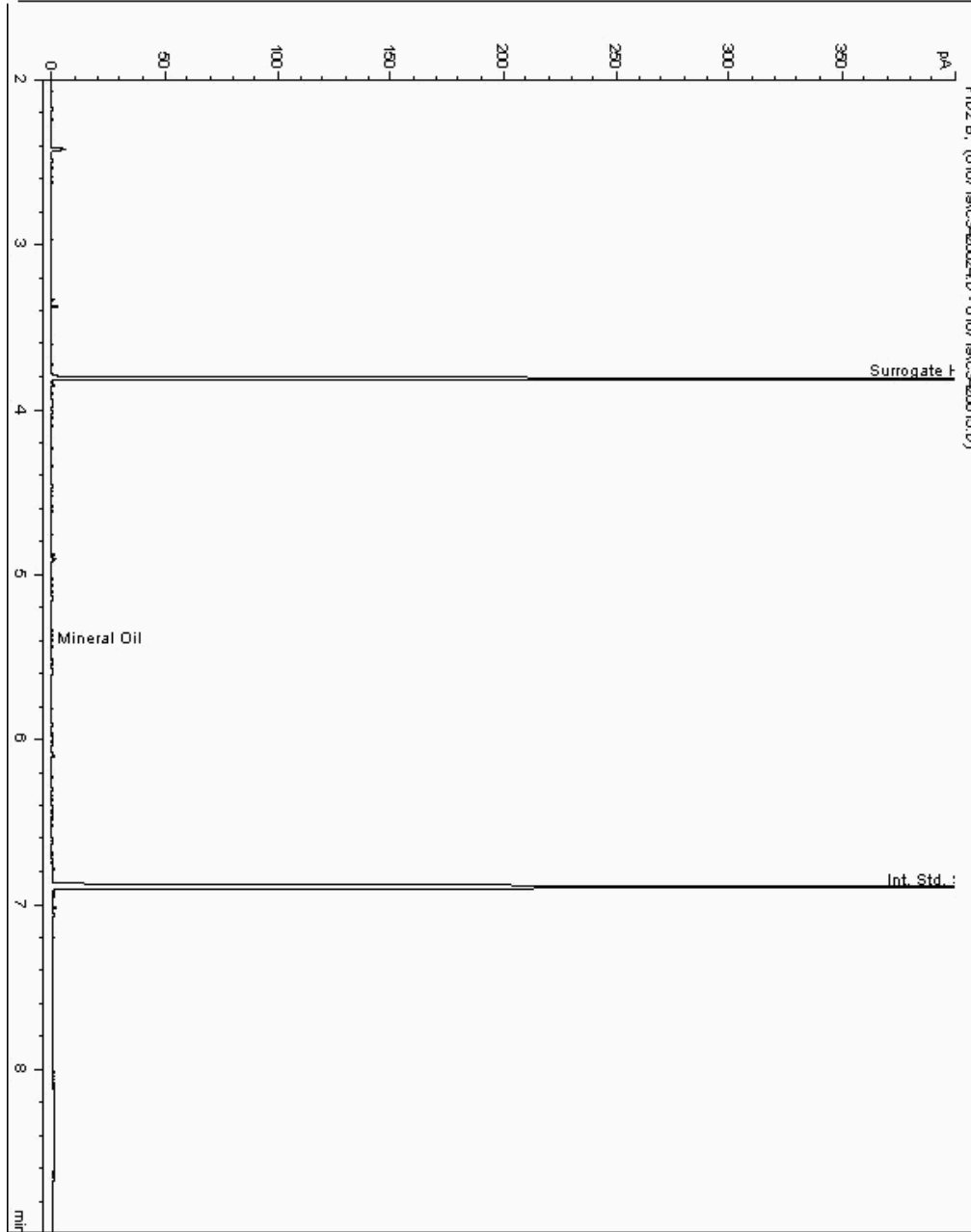
Analysis: Mineral Oil
19022941

Sample No :
Sample ID : BH211

19,022,941 Depth : 10.50 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874860-
Date Acquired : 07/01/19 18:31:00 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

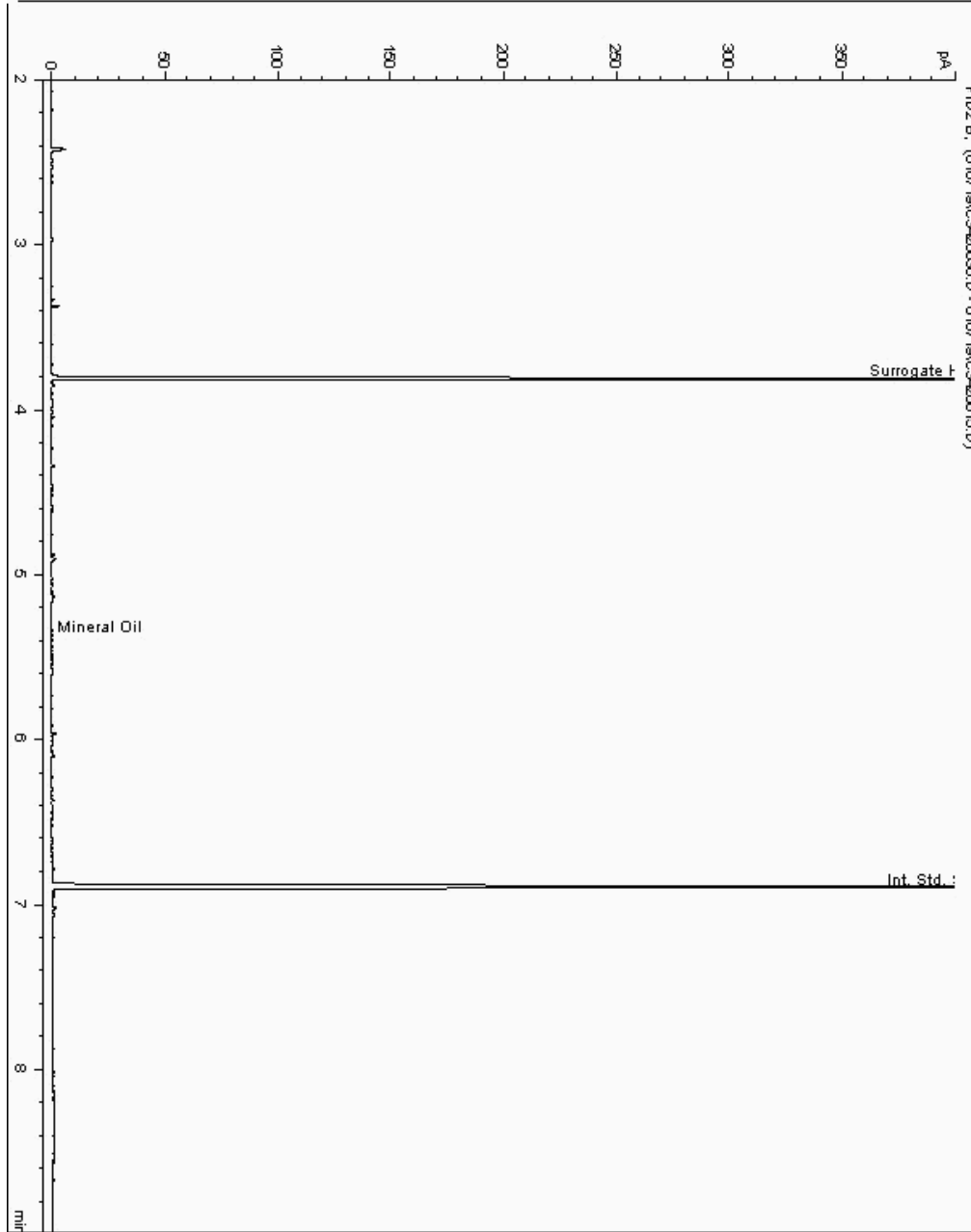
Analysis: Mineral Oil
19023080

Sample No :
Sample ID : BH211

19,023,080 Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875875-
Date Acquired : 07/01/19 20:23:57 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

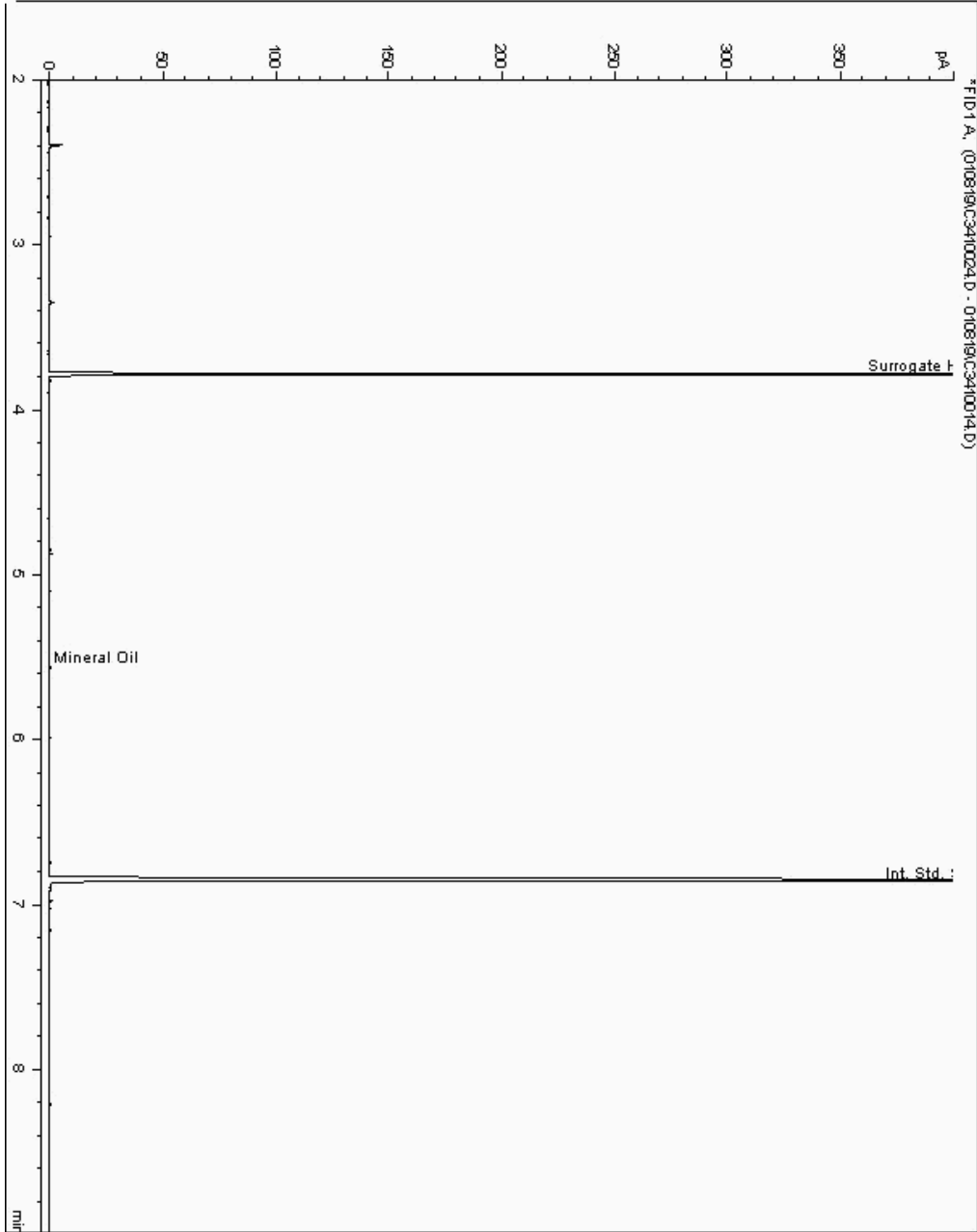
Analysis: Mineral Oil
19023246

Sample No :
Sample ID : BH212

19,023,246 Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875286-
Date Acquired : 08/01/19 15:56:15 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

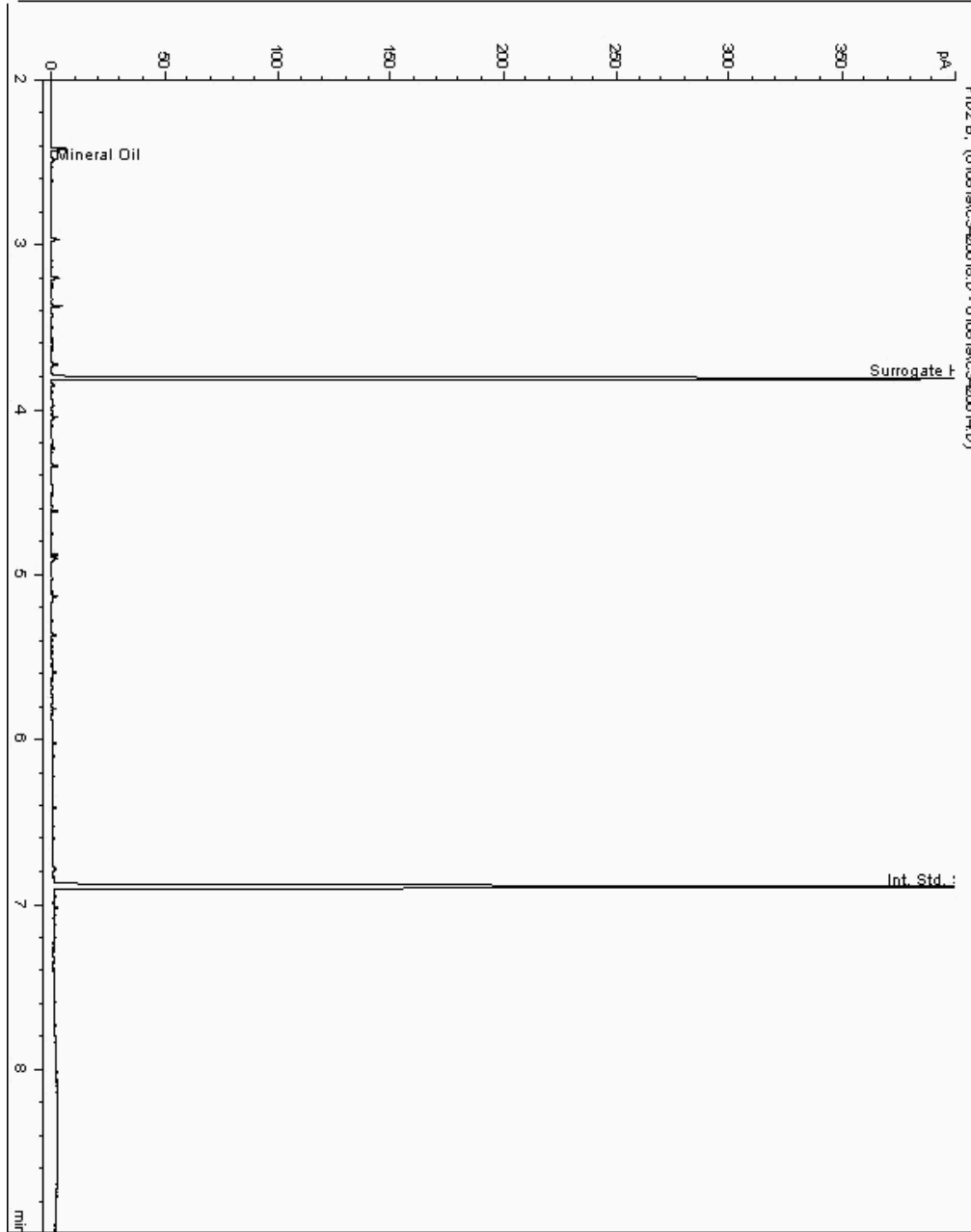
Analysis: Mineral Oil
19023277

Sample No :
Sample ID : BH212

19,023,277Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875344-
Date Acquired : 08/01/19 13:55:32 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

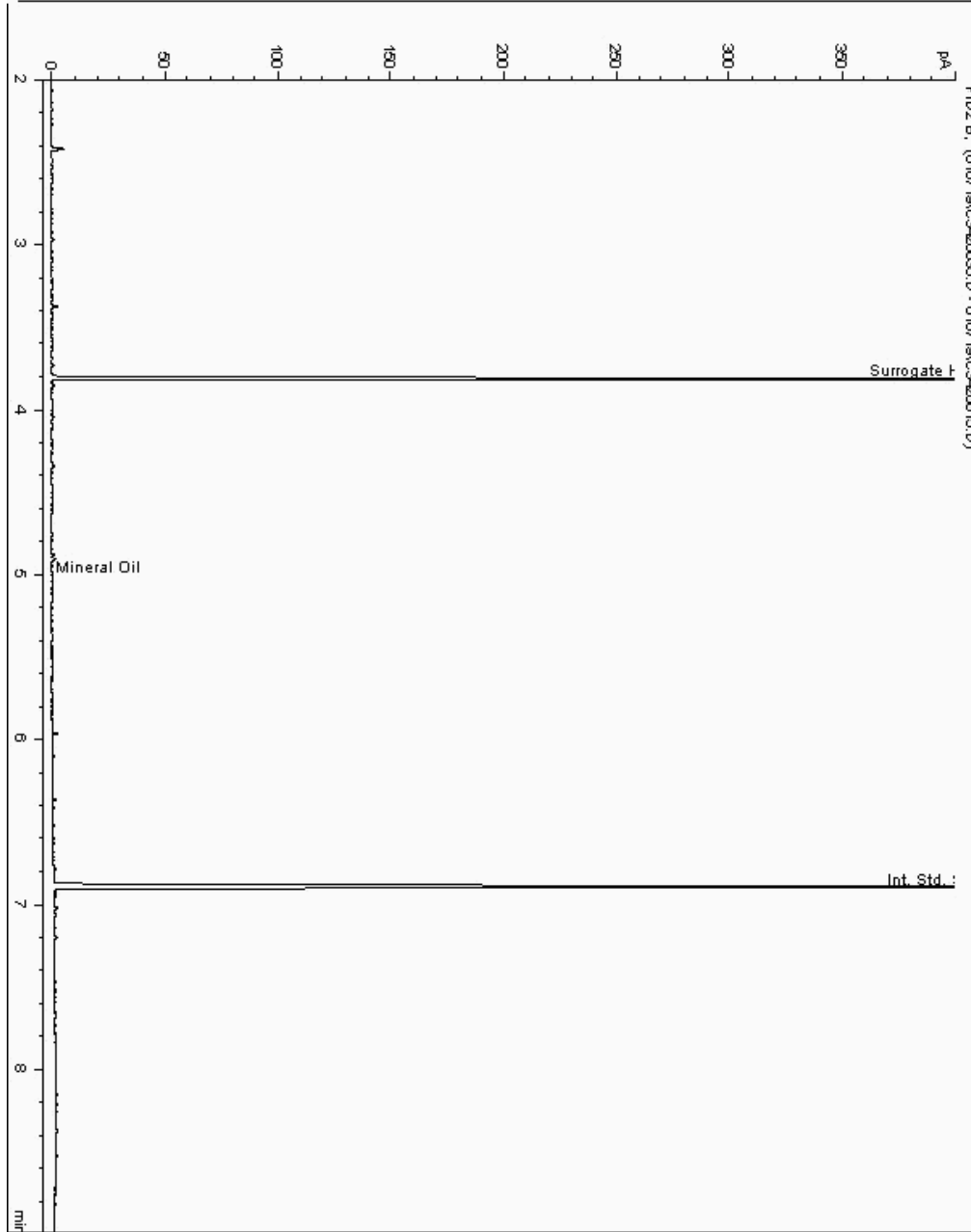
Analysis: Mineral Oil
19023507

Sample No :
Sample ID : BH211

19,023,507Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874912-
Date Acquired : 07/01/19 21:56:26 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

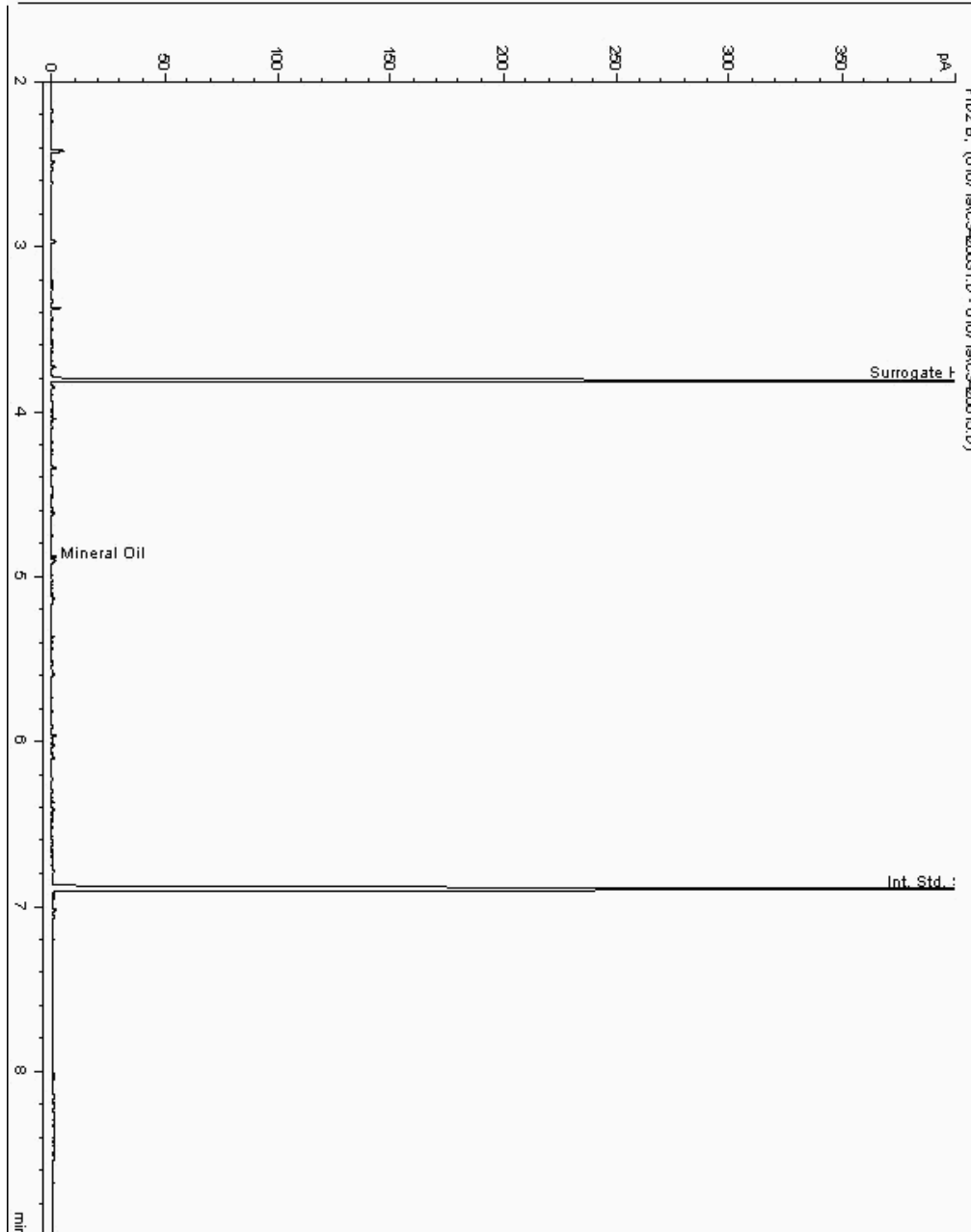
Analysis: Mineral Oil
19023617

Sample No :
Sample ID : BH213

19,023,617 Depth : 12.50 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875753-
Date Acquired : 07/01/19 20:44:11 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

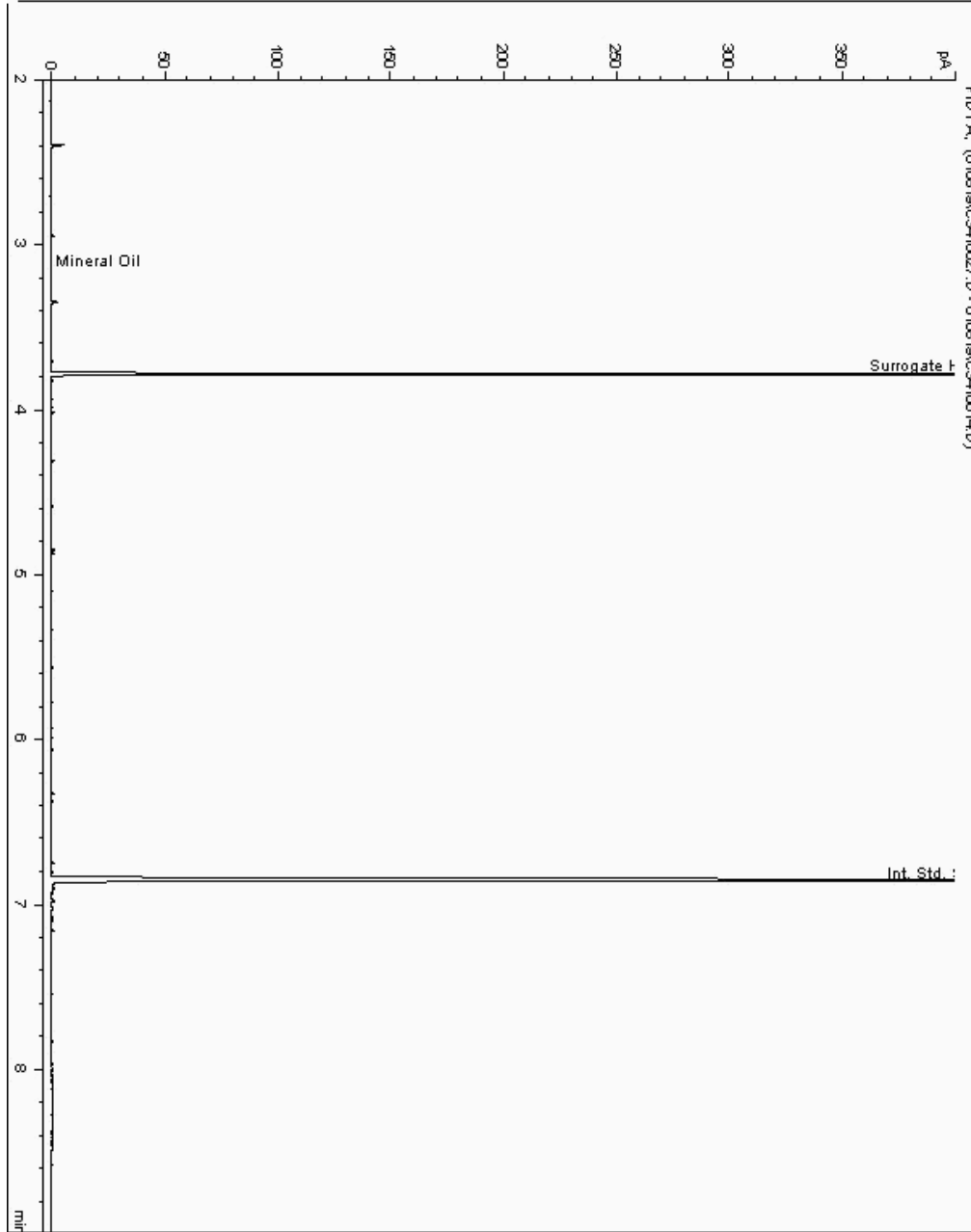
Analysis: Mineral Oil
19023669

Sample No :
Sample ID : BH213

19,023,669Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875834-
Date Acquired : 08/01/19 16:48:34 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

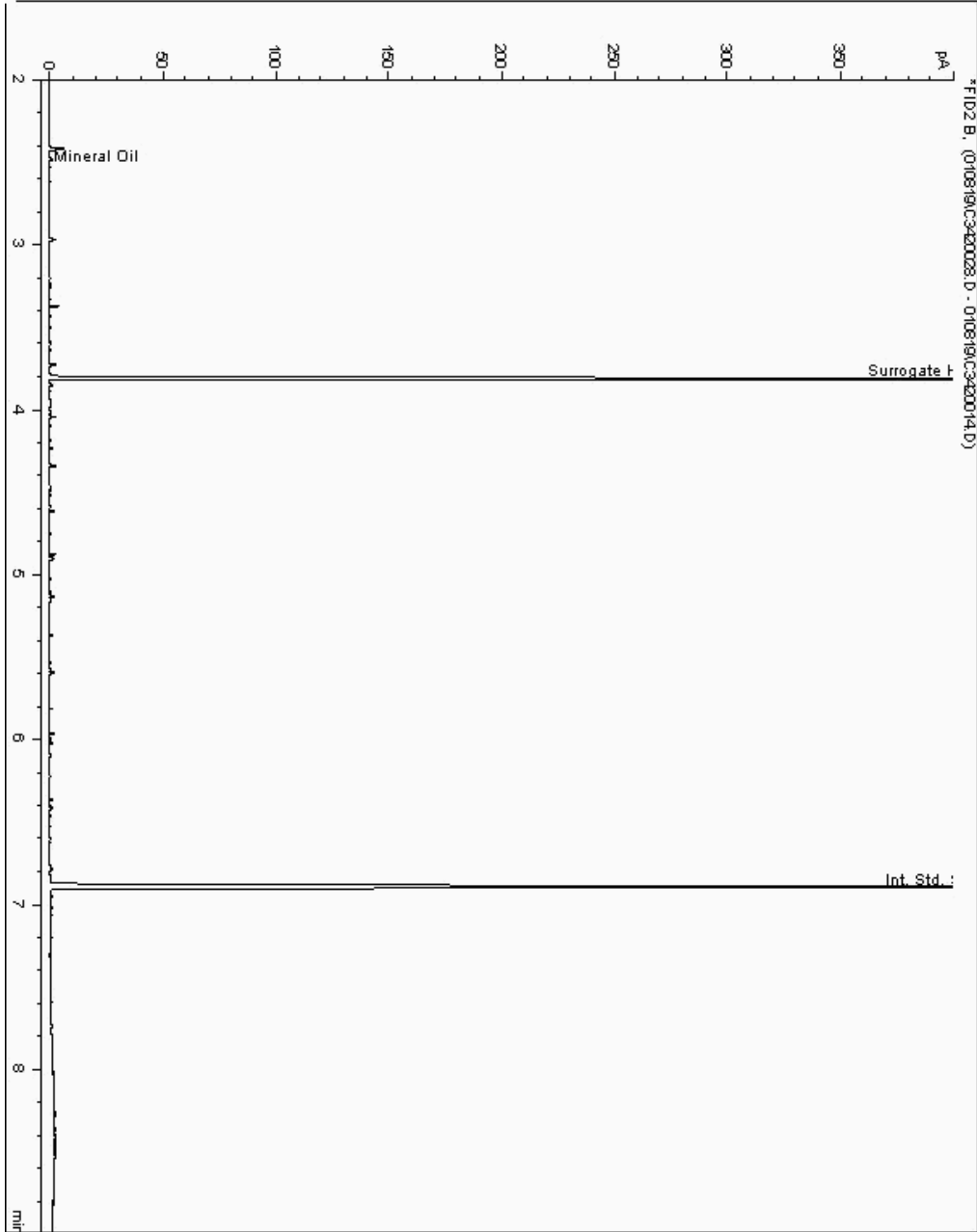
Analysis: Mineral Oil
19023717

Sample No :
Sample ID : BH213

19,023,717 Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875790-
Date Acquired : 08/01/19 17:08:49 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

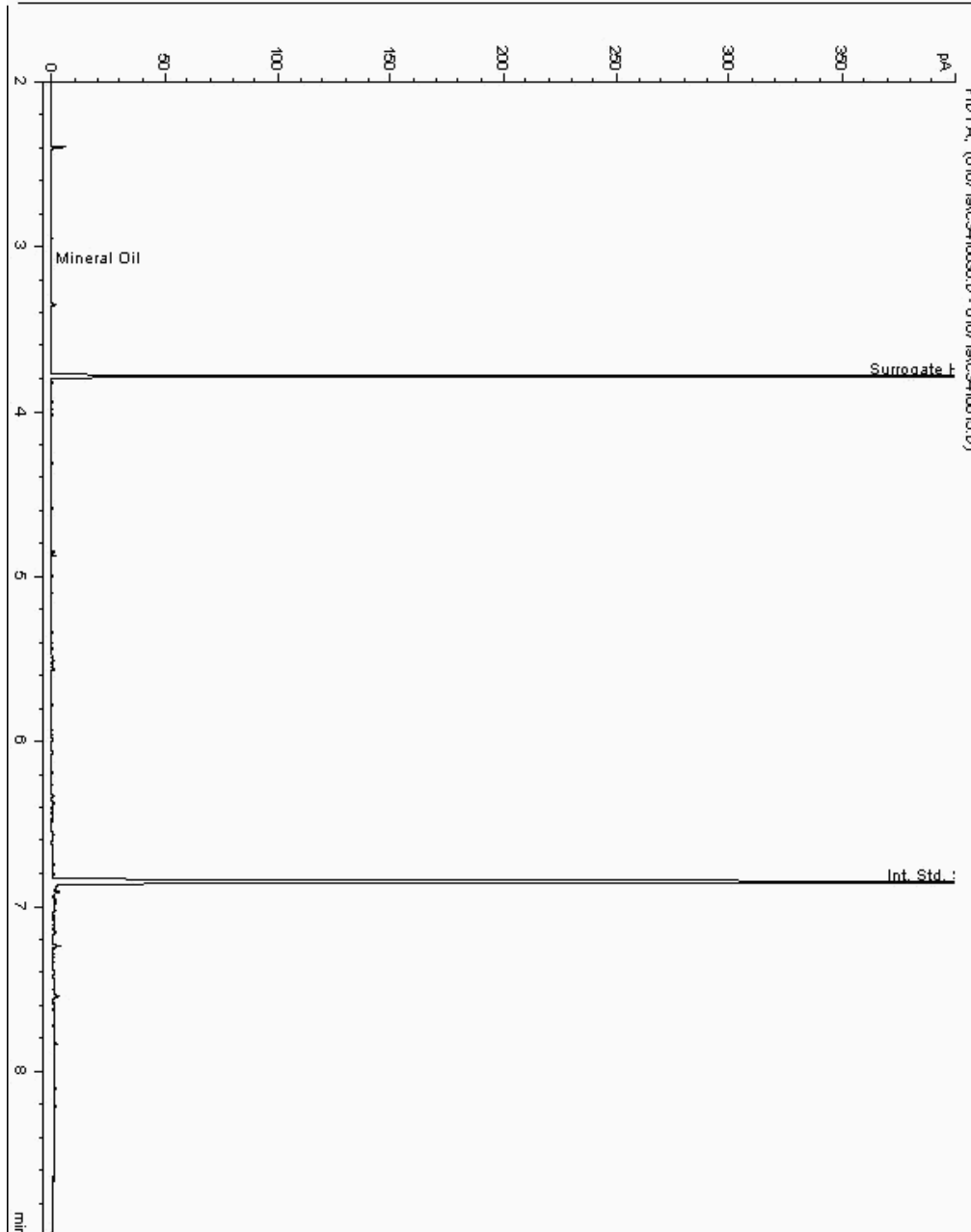
Analysis: Mineral Oil
19027503

Sample No :
Sample ID : BH213

19,027,503 Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875633-
Date Acquired : 07/01/19 20:23:57 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

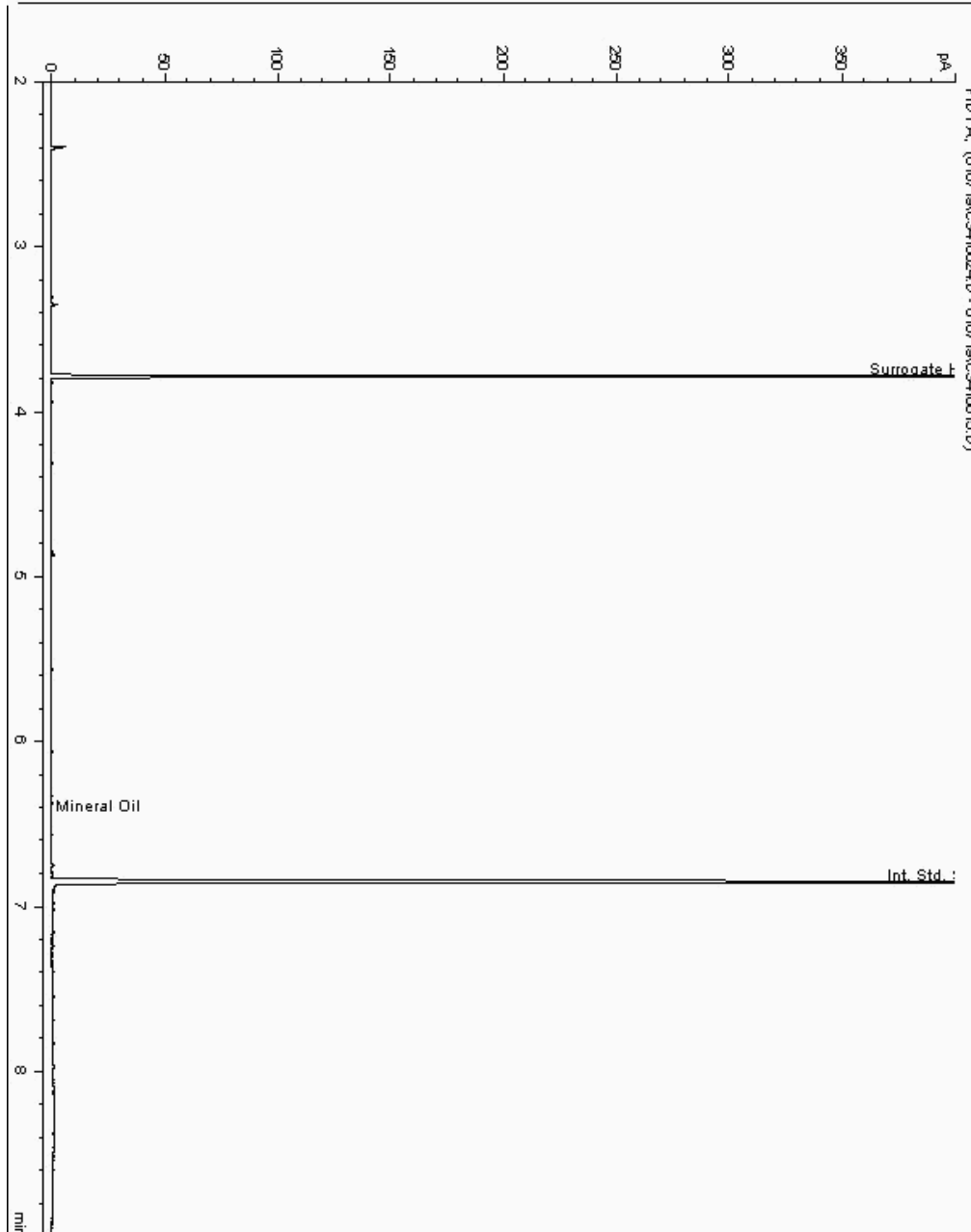
Analysis: Mineral Oil
19027545

Sample No :
Sample ID : BH212

19,027,545 Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875201-
Date Acquired : 07/01/19 18:31:00 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

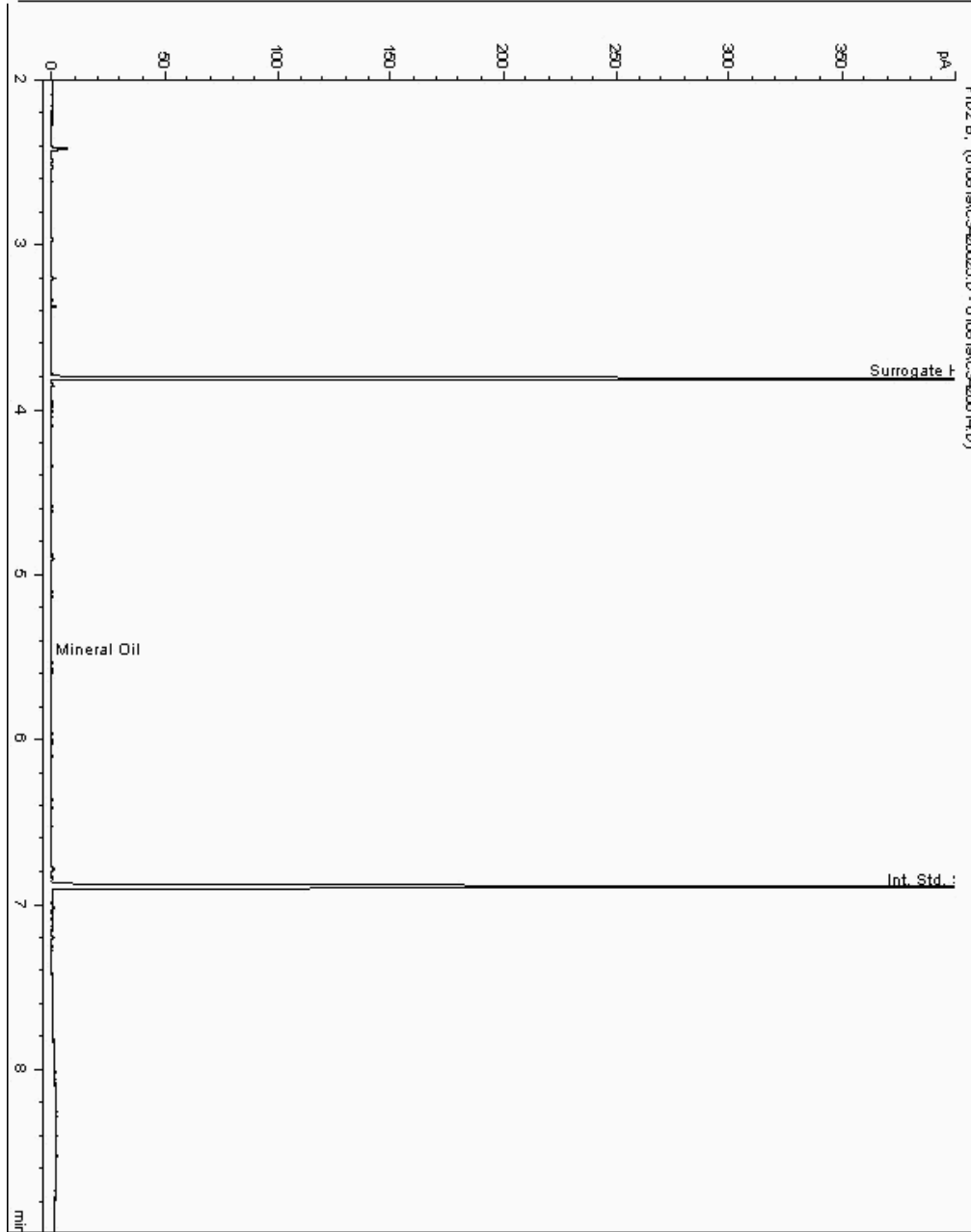
Analysis: Mineral Oil
19027630

Sample No :
Sample ID : BH212

19,027,630Depth : 10.50 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875258-
Date Acquired : 08/01/19 16:16:35 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

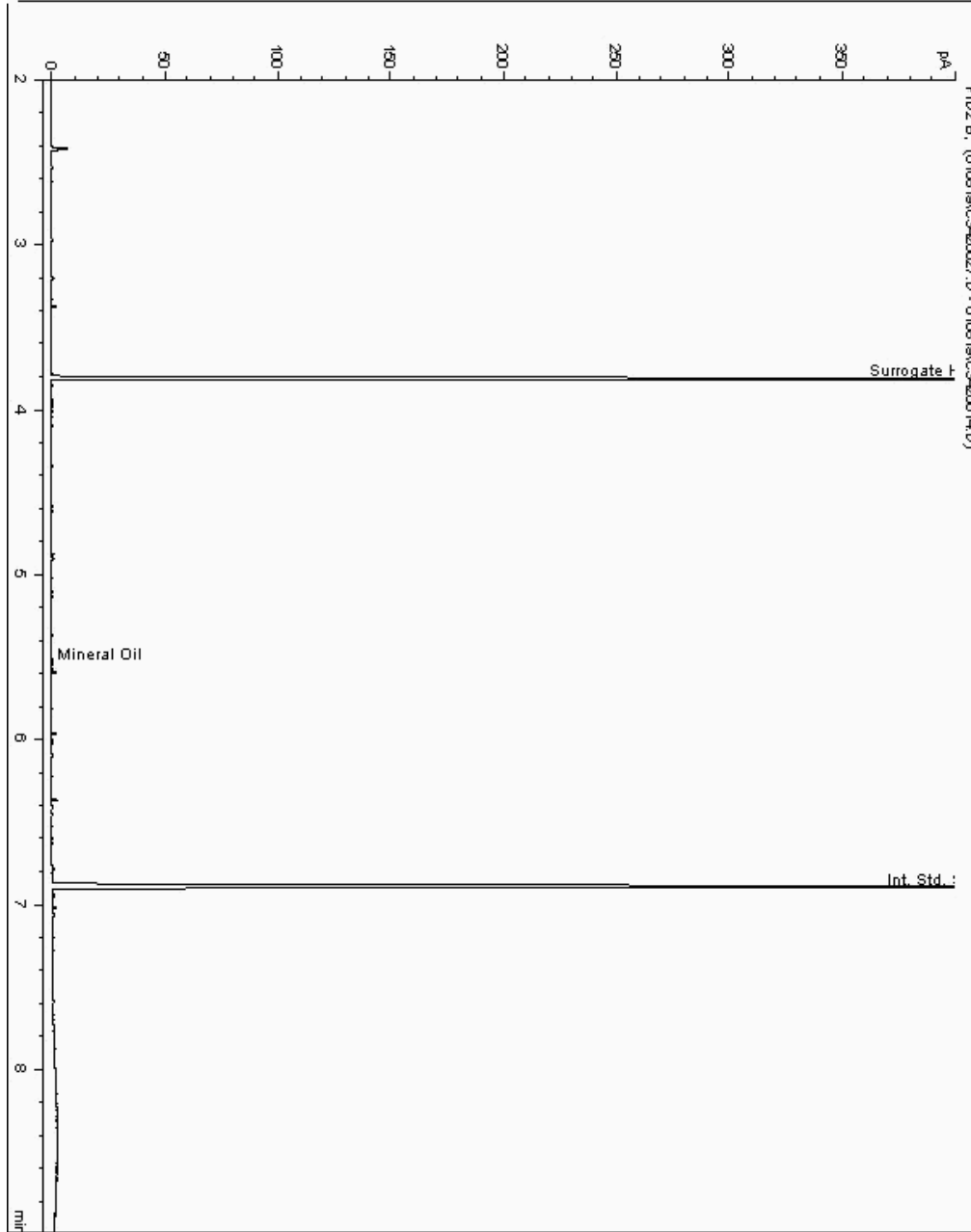
Analysis: Mineral Oil
19027660

Sample No :
Sample ID : BH213

19,027,660Depth :9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875679-
Date Acquired : 08/01/19 16:48:34 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

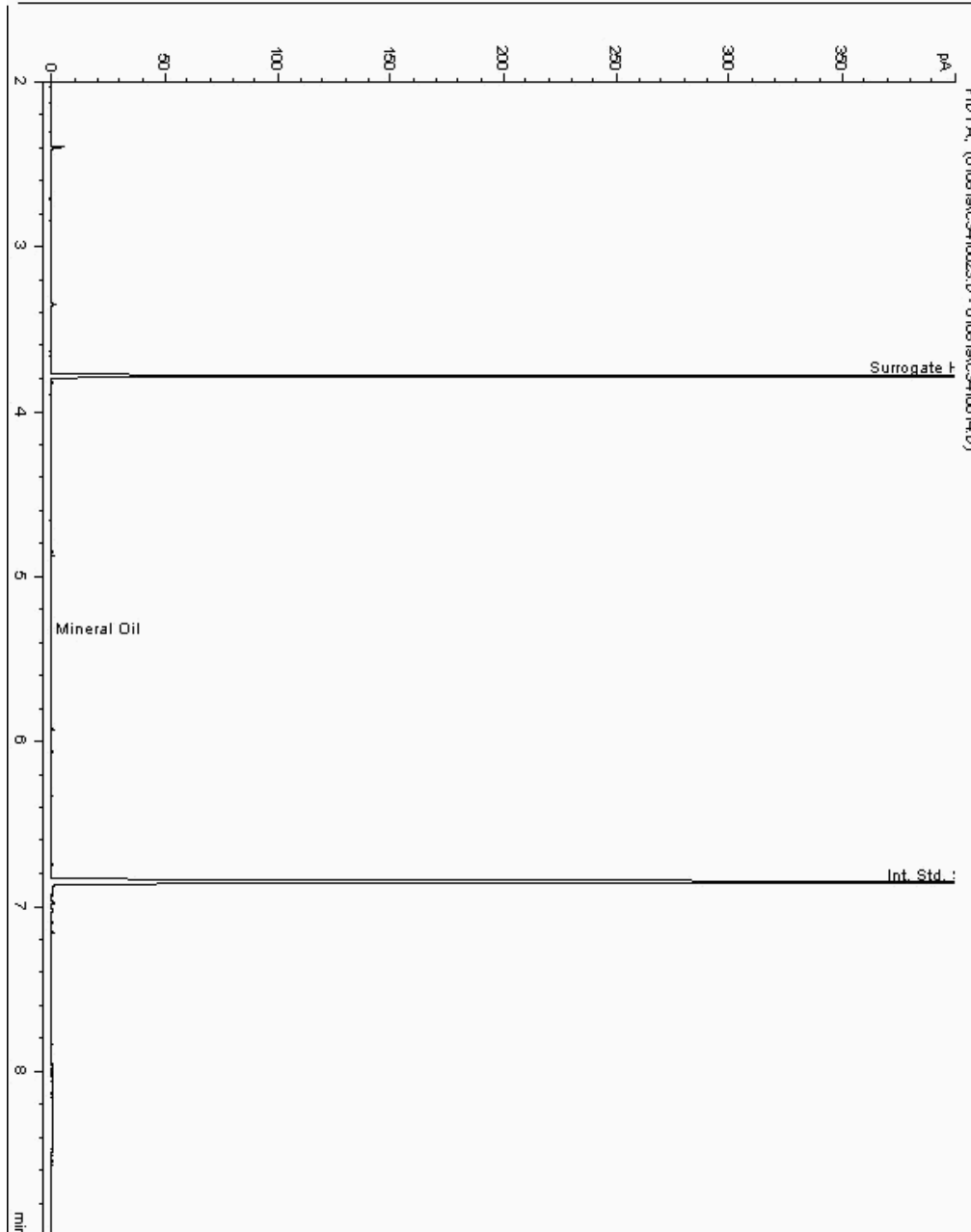
Analysis: Mineral Oil
19027682

Sample No :
Sample ID : BH211

19,027,682Depth :9.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874820-
Date Acquired : 08/01/19 15:36:09 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

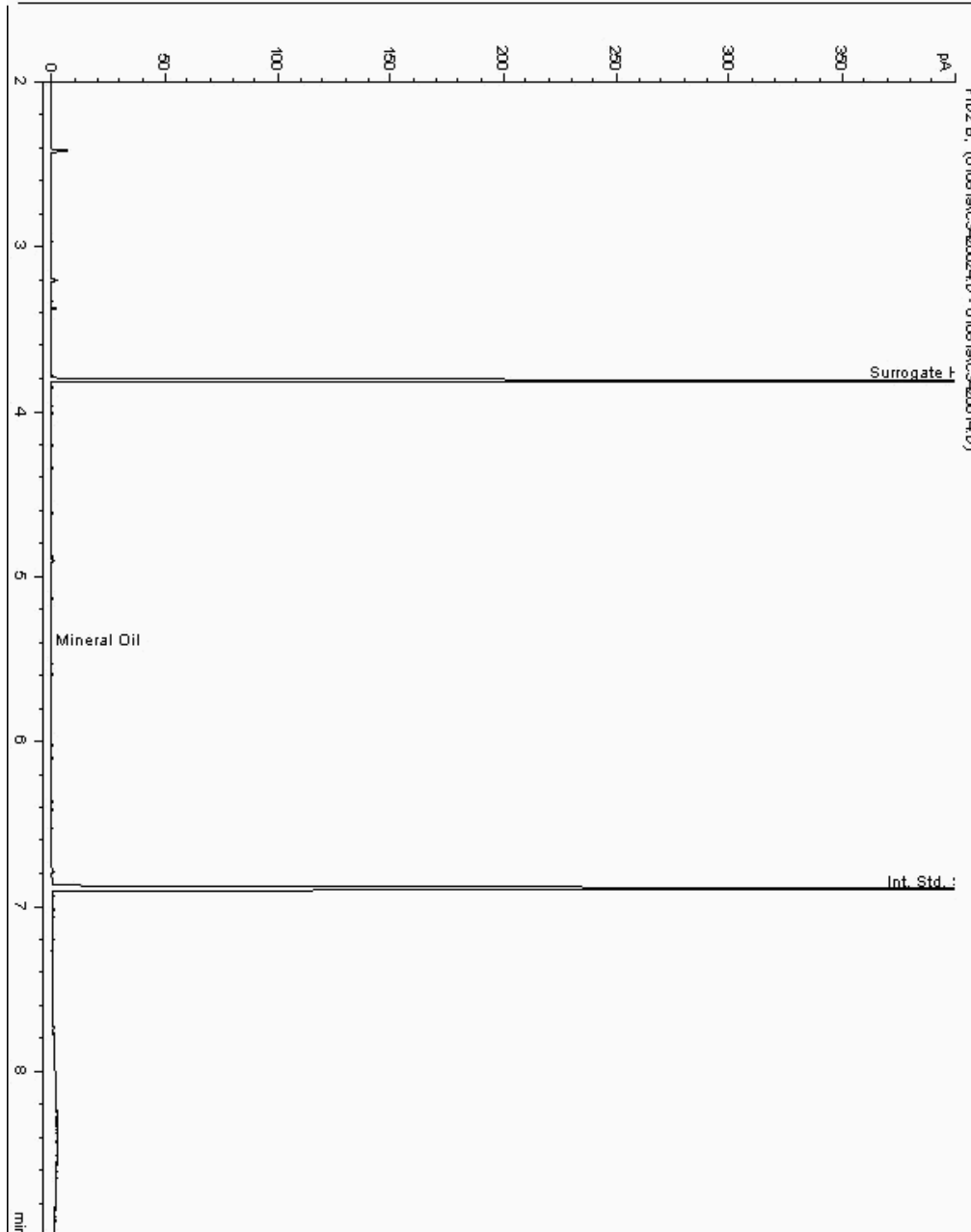
Analysis: Mineral Oil
19027699

Sample No :
Sample ID : BH213

19,027,699Depth : 10.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875726-
Date Acquired : 08/01/19 15:56:15 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

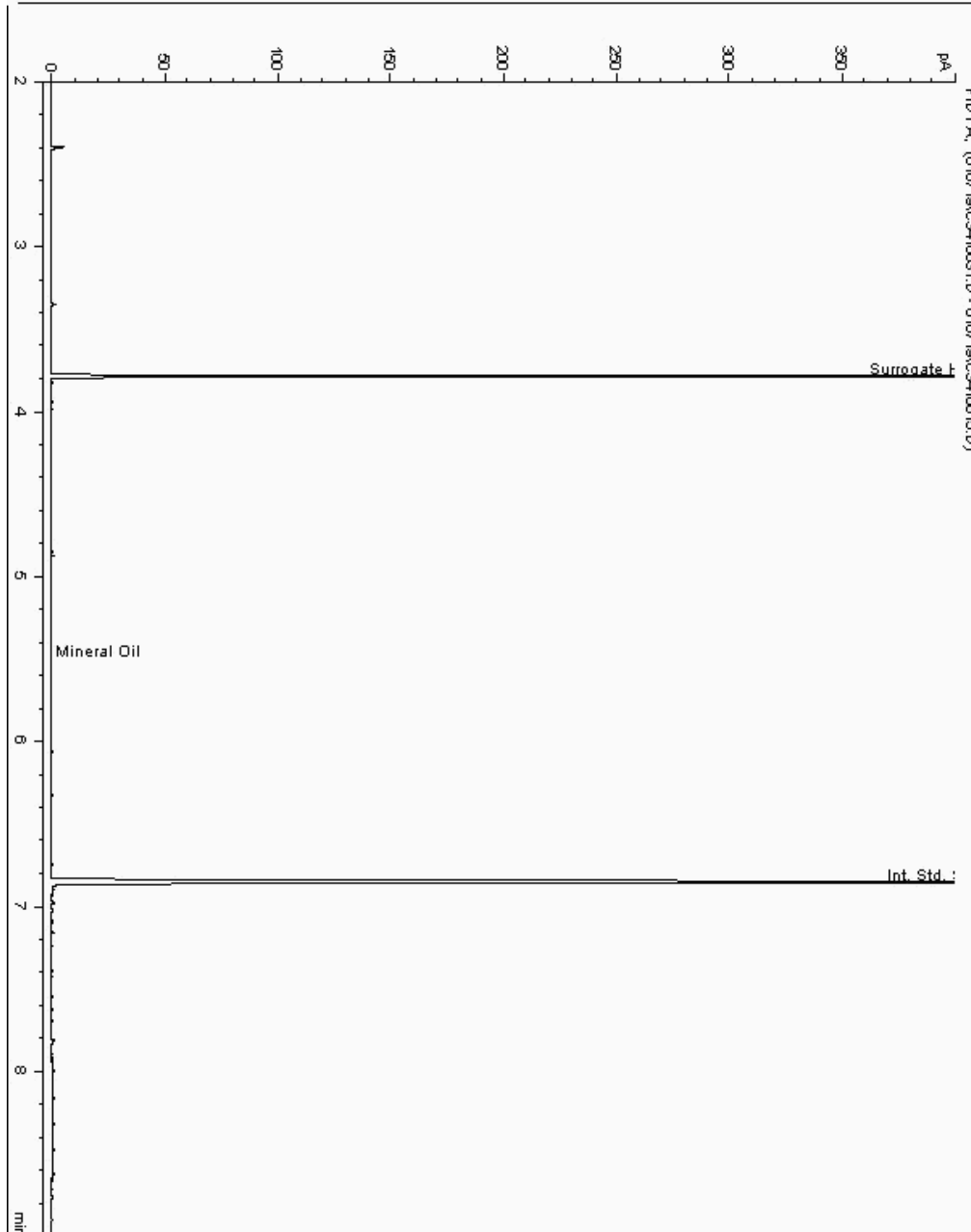
Analysis: Mineral Oil
19027824

Sample No :
Sample ID : BH212

19,027,824Depth :9.00 - 10.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875230-
Date Acquired : 07/01/19 20:44:11 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

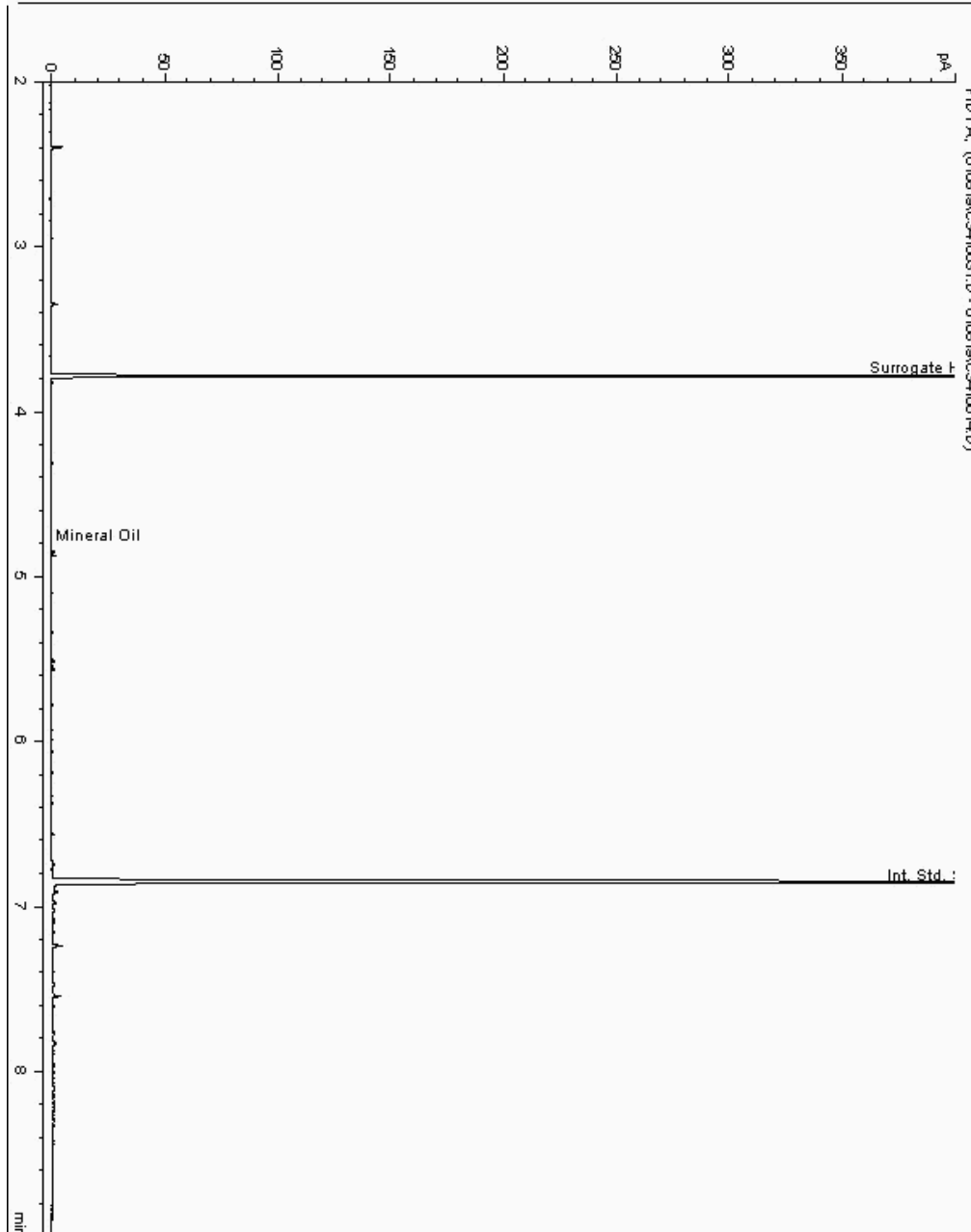
Analysis: Mineral Oil
19028379

Sample No :
Sample ID : BH211

19,028,379 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874722-
Date Acquired : 08/01/19 18:09:39 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

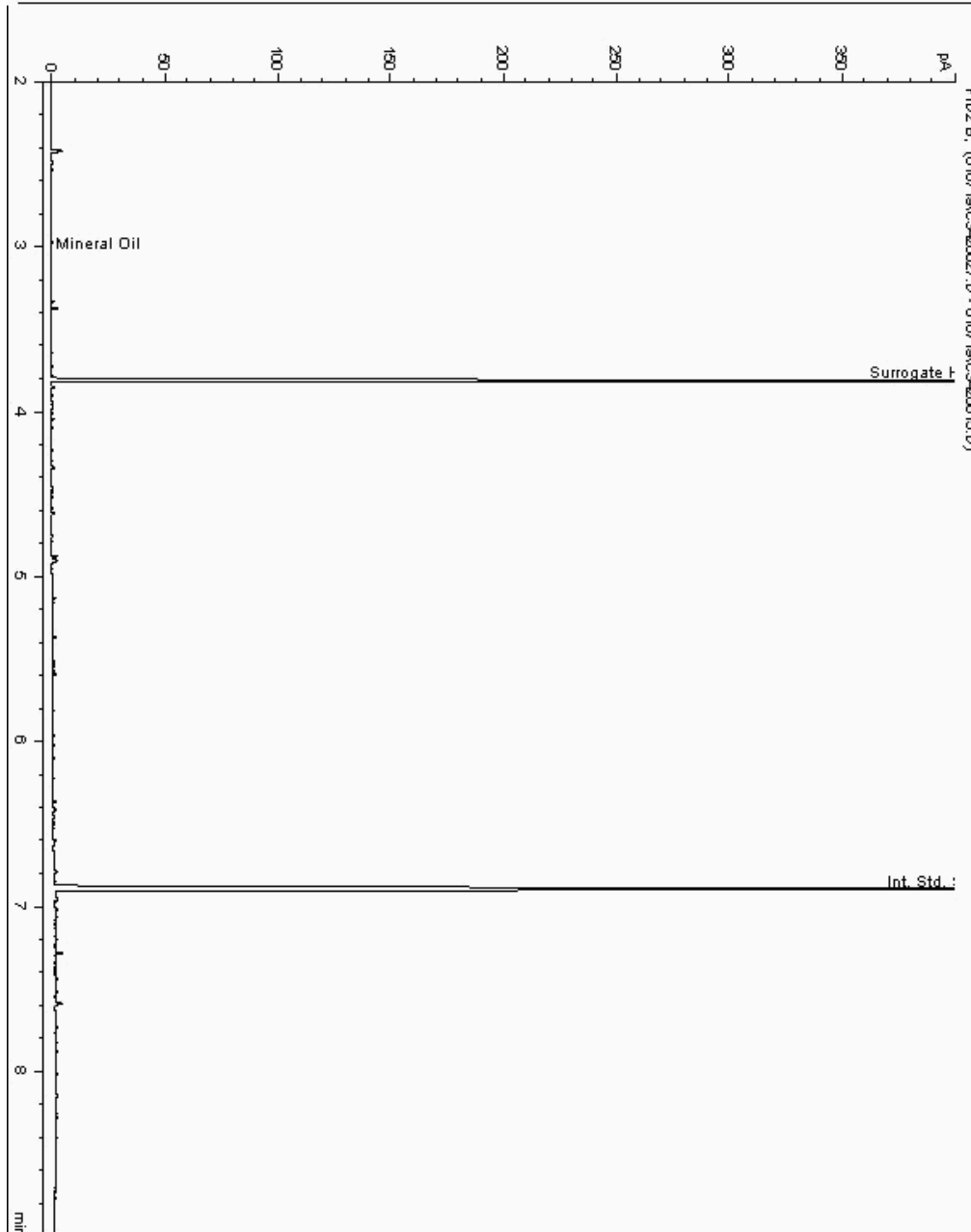
Analysis: Mineral Oil
19028391

Sample No :
Sample ID : BH213

19,028,391 Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875610-
Date Acquired : 07/01/19 19:31:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

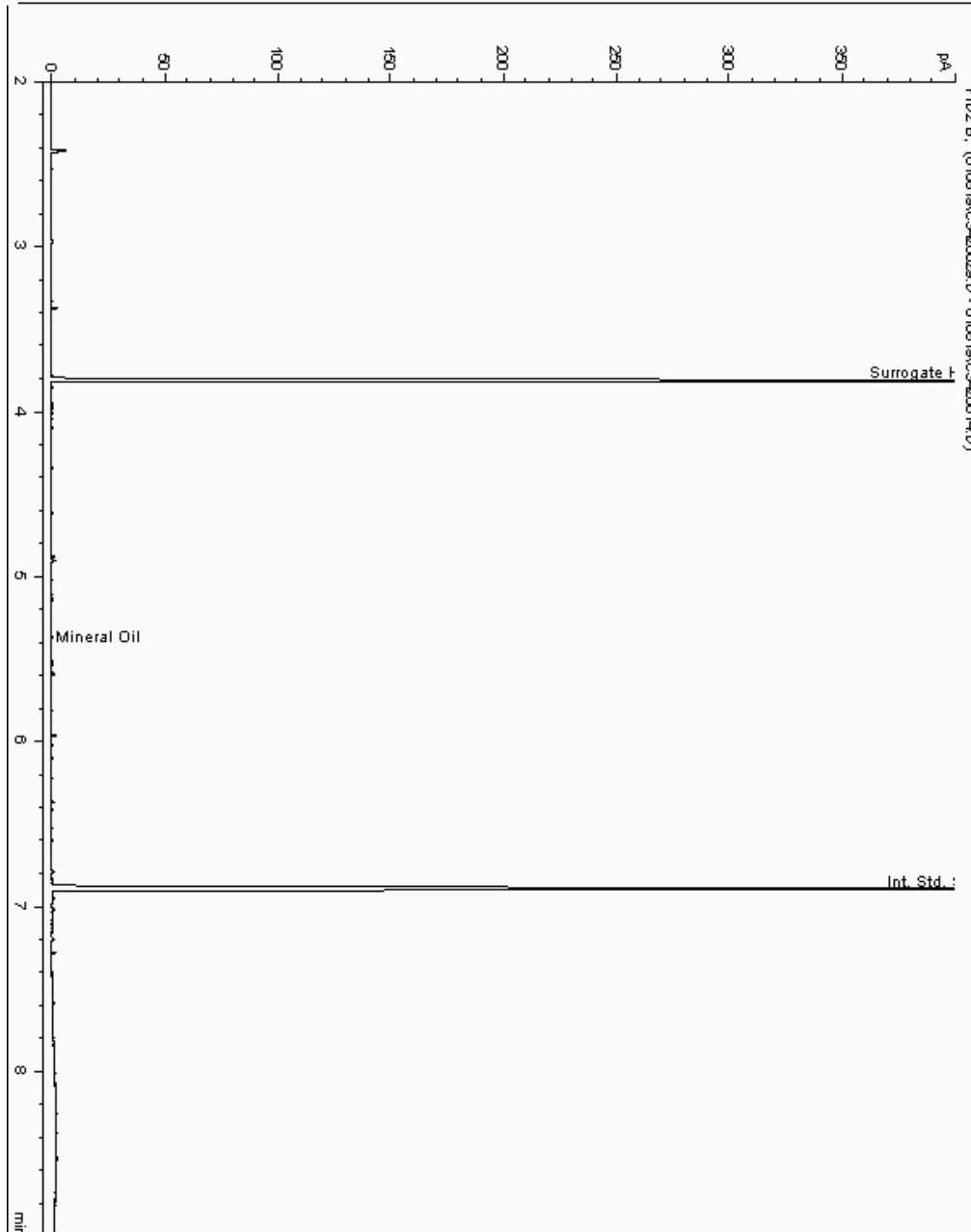
Analysis: Mineral Oil
19028398

Sample No :
Sample ID : BH212

19,028,398Depth :4.50 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875068-
Date Acquired : 08/01/19 17:29:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

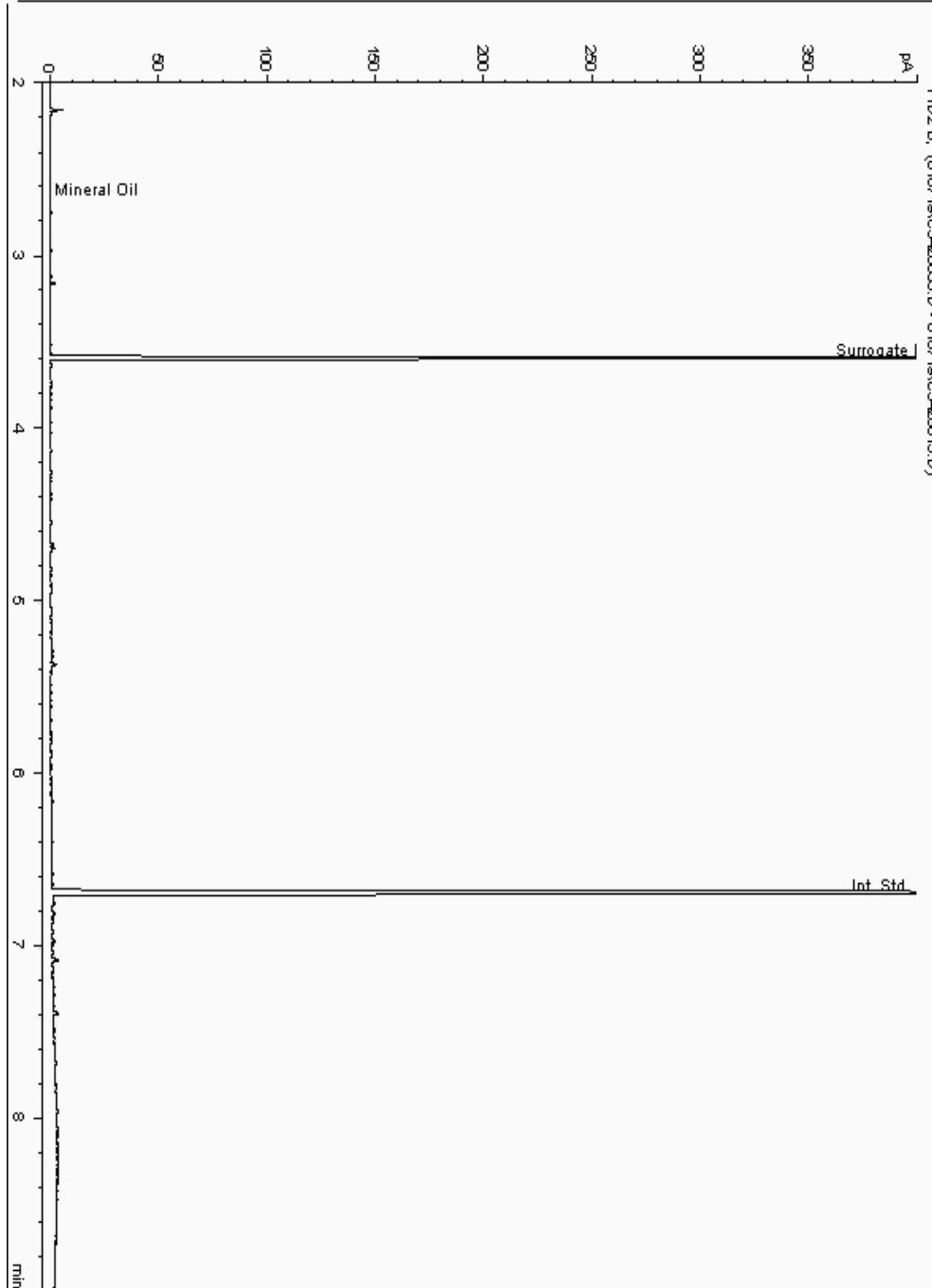
Analysis: Mineral Oil
19028417

Sample No :
Sample ID : BH211

19,028,417Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874658-
Date Acquired : 07/01/2019 19:51:46 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

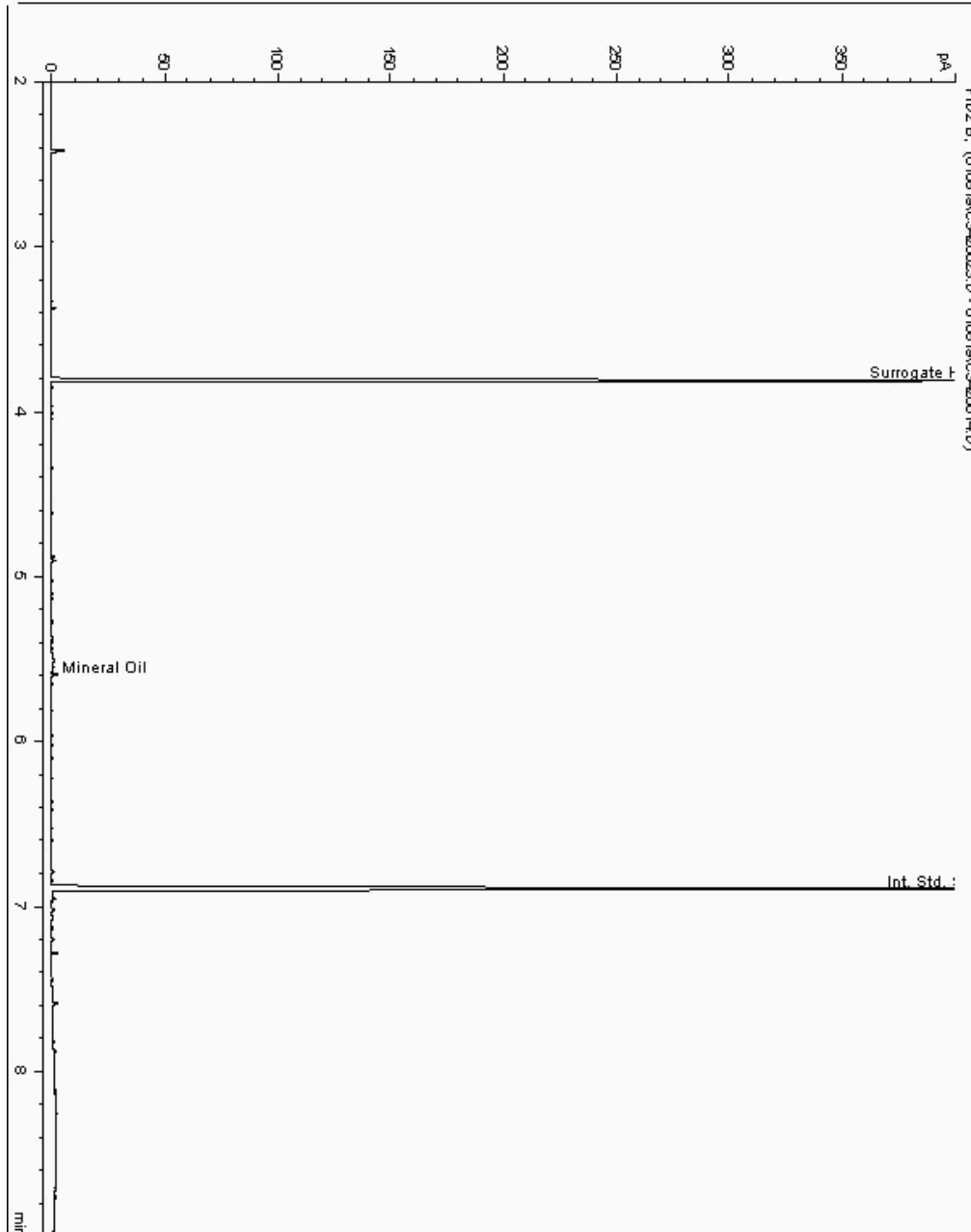
Analysis: Mineral Oil
19028428

Sample No :
Sample ID : BH211

19,028,428 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874621-
Date Acquired : 08/01/19 15:36:09 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

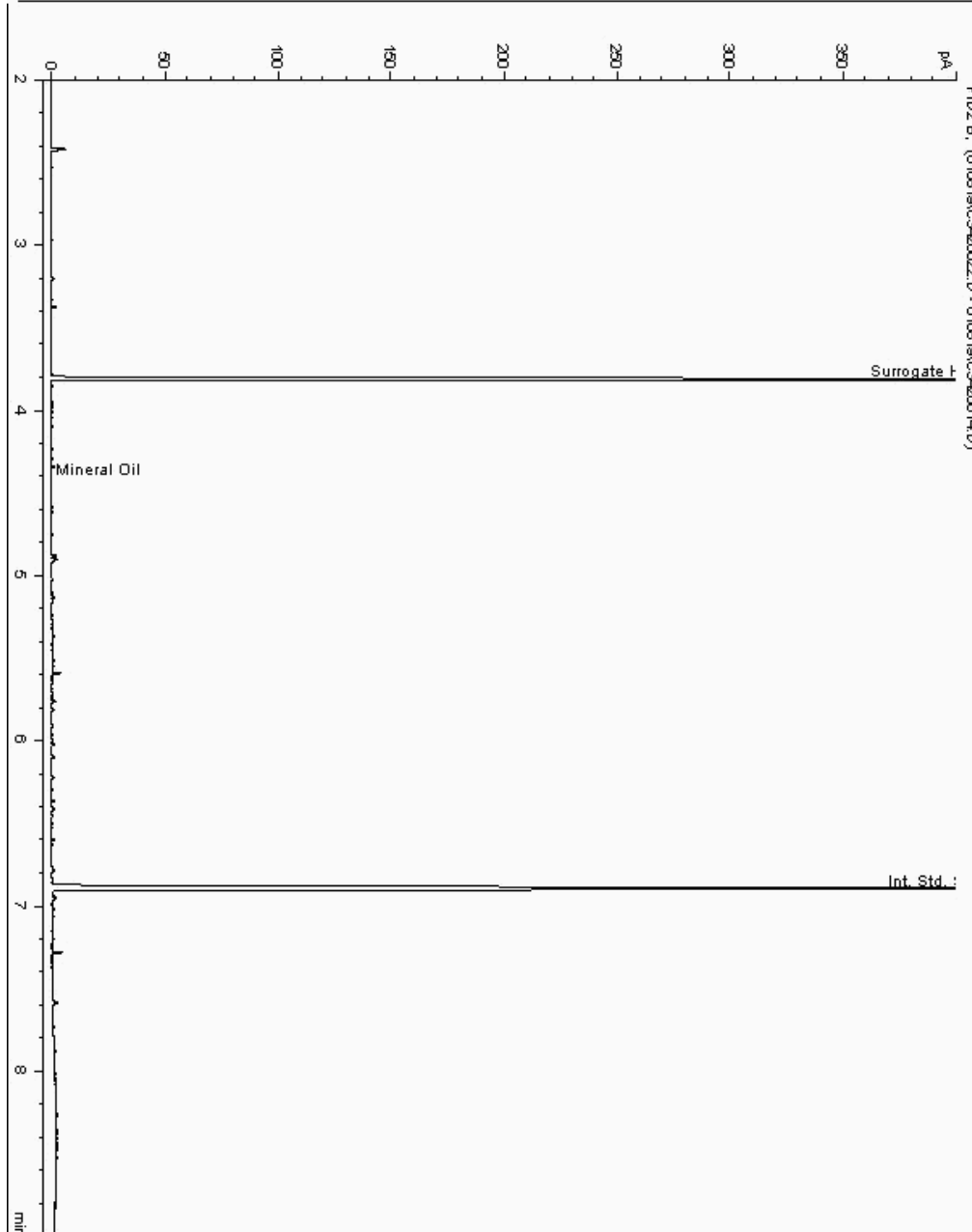
Analysis: Mineral Oil
19028438

Sample No :
Sample ID : BH212

19,028,438 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875014-
Date Acquired : 08/01/19 15:15:47 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

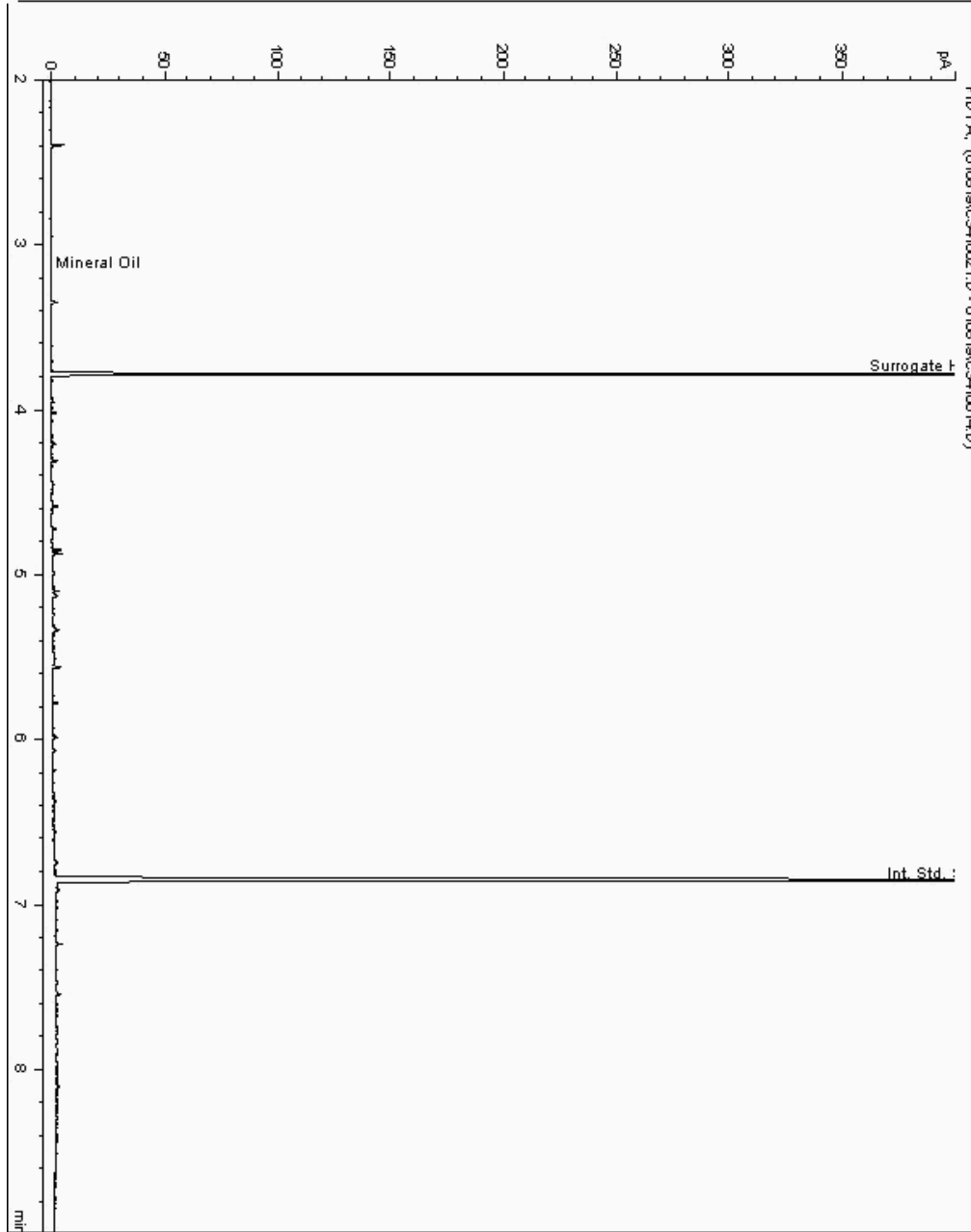
Analysis: Mineral Oil
19028467

Sample No :
Sample ID : BH212

19,028,467Depth :2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874987-
Date Acquired : 08/01/19 14:55:47 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

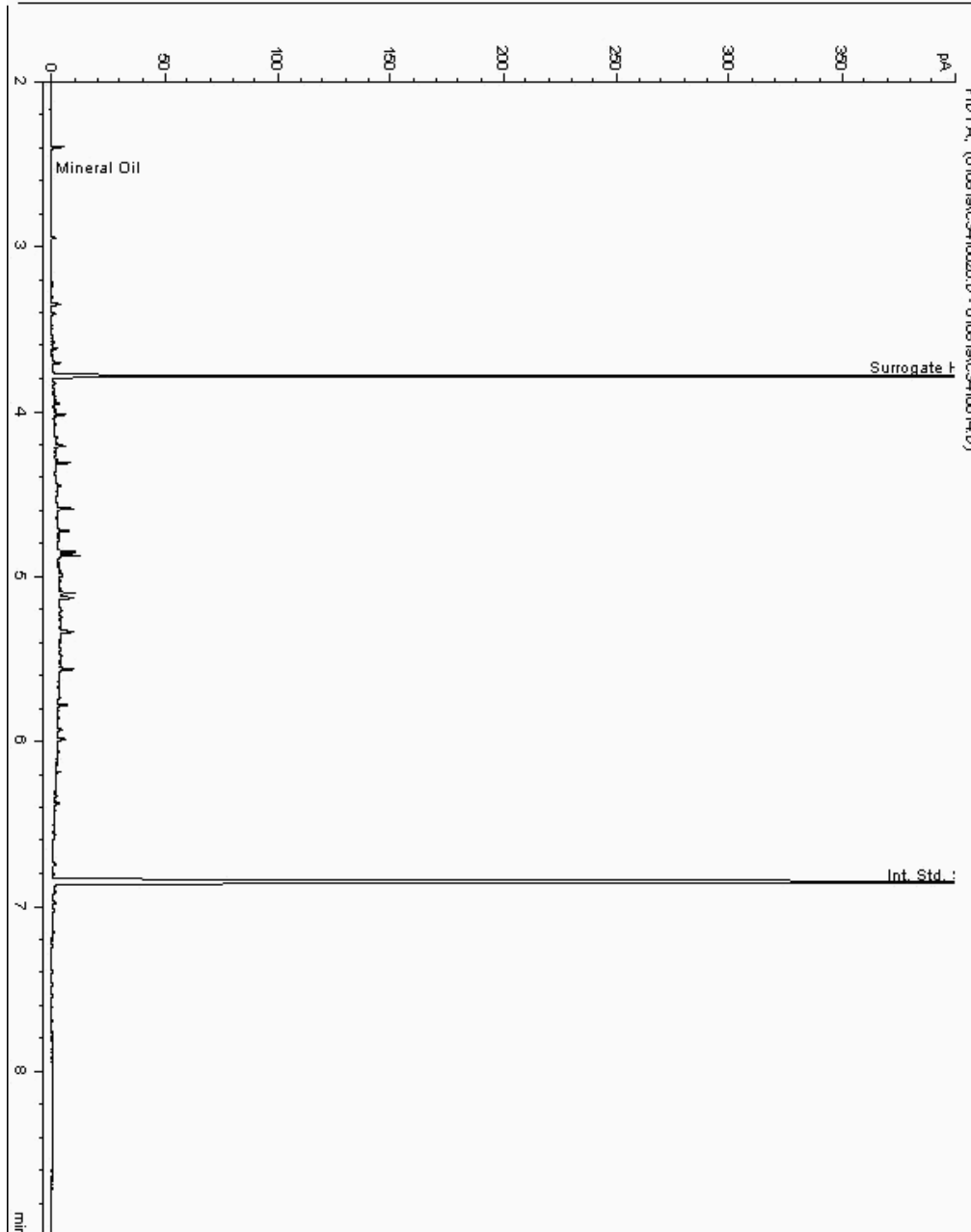
Analysis: Mineral Oil
19028569

Sample No :
Sample ID : BH212

19,028,569Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874964-
Date Acquired : 08/01/19 14:35:34 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

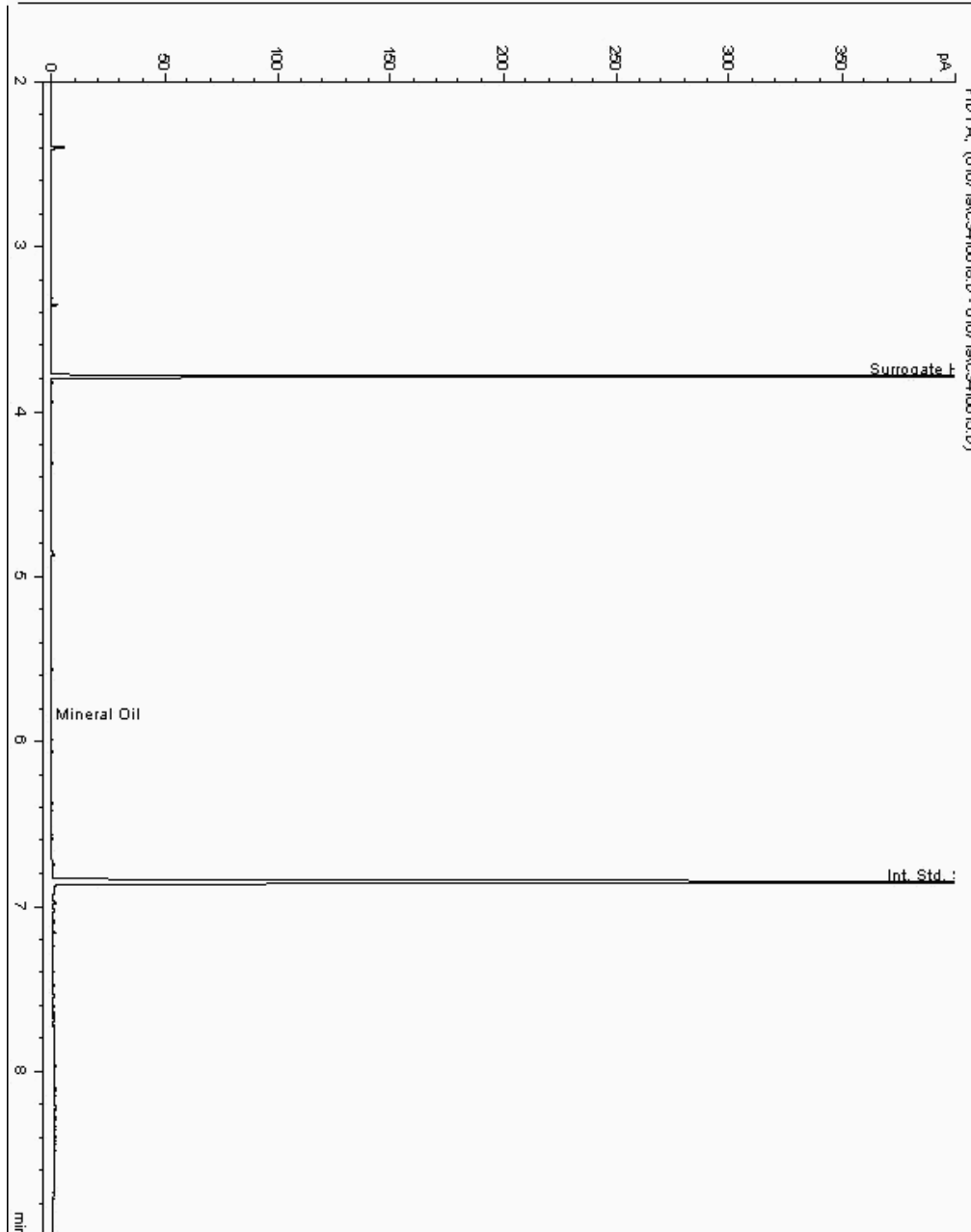
Analysis: Mineral Oil
19028601

Sample No :
Sample ID : BH212

19,028,601 Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875162-
Date Acquired : 07/01/19 16:46:17 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

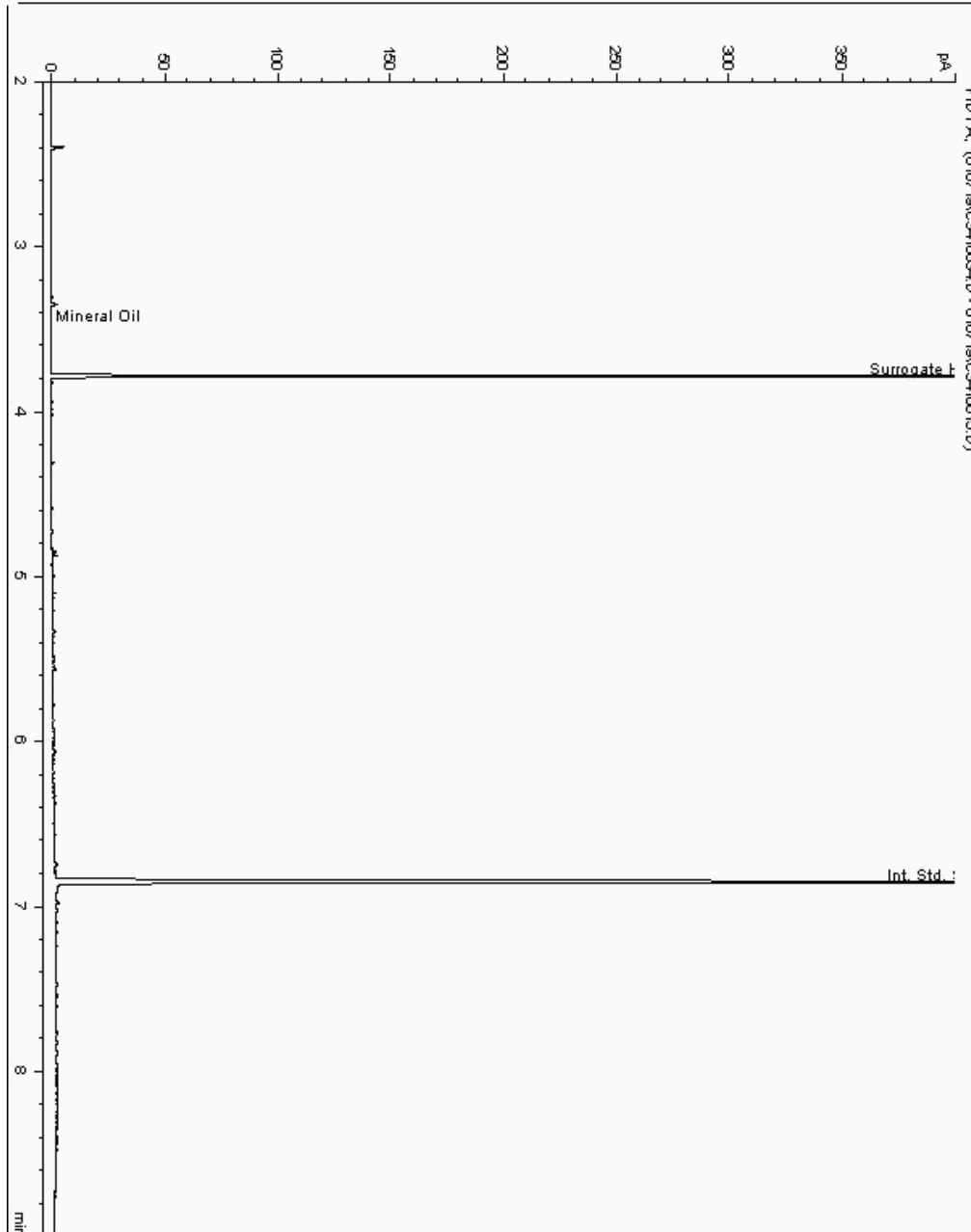
Analysis: Mineral Oil
19028622

Sample No :
Sample ID : BH212

19,028,622Depth :0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874940-
Date Acquired : 07/01/19 21:36:10 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

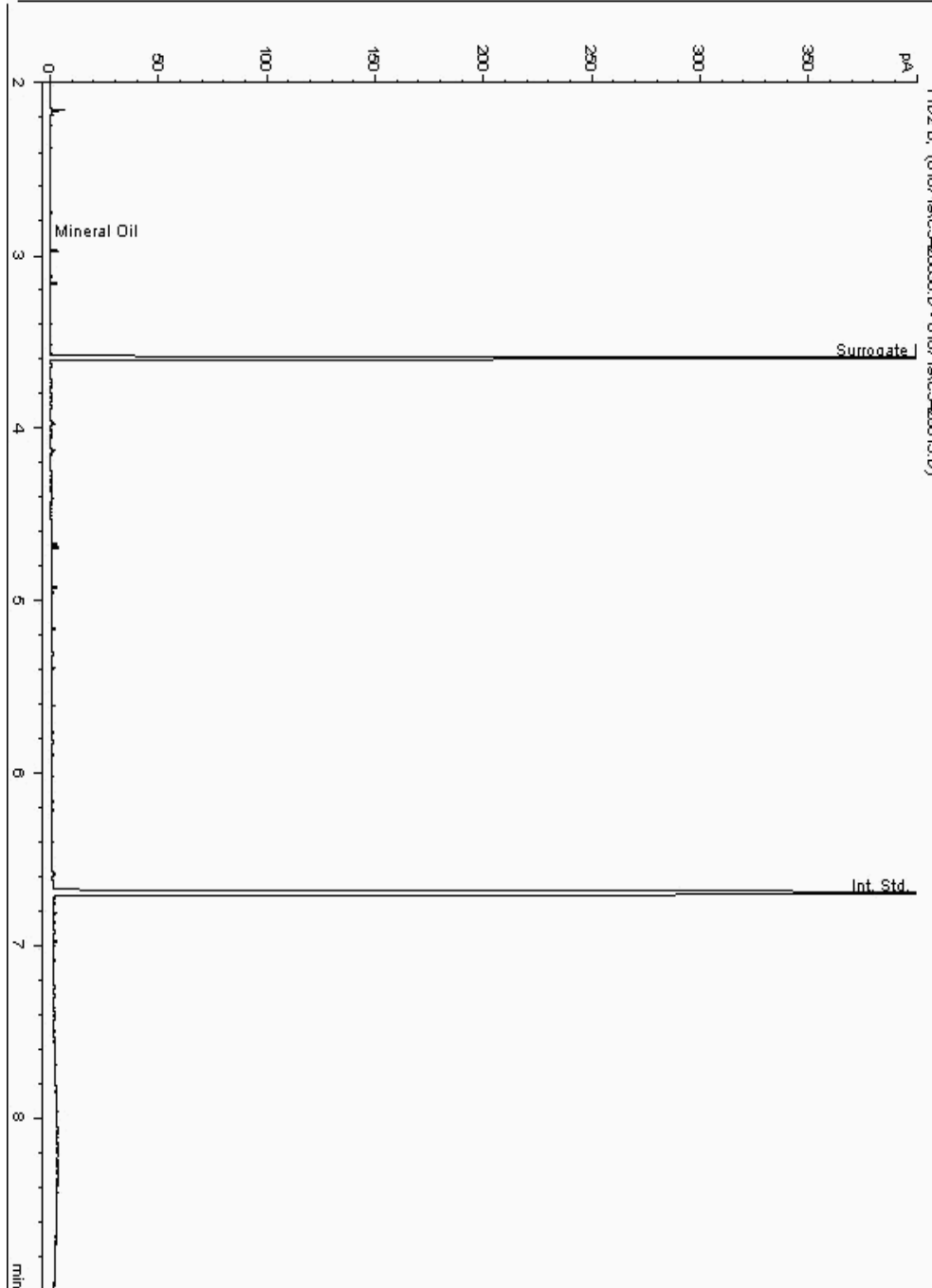
Analysis: Mineral Oil
19028668

Sample No :
Sample ID : BH213

19,028,668Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875450-
Date Acquired : 07/01/2019 20:12:23 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

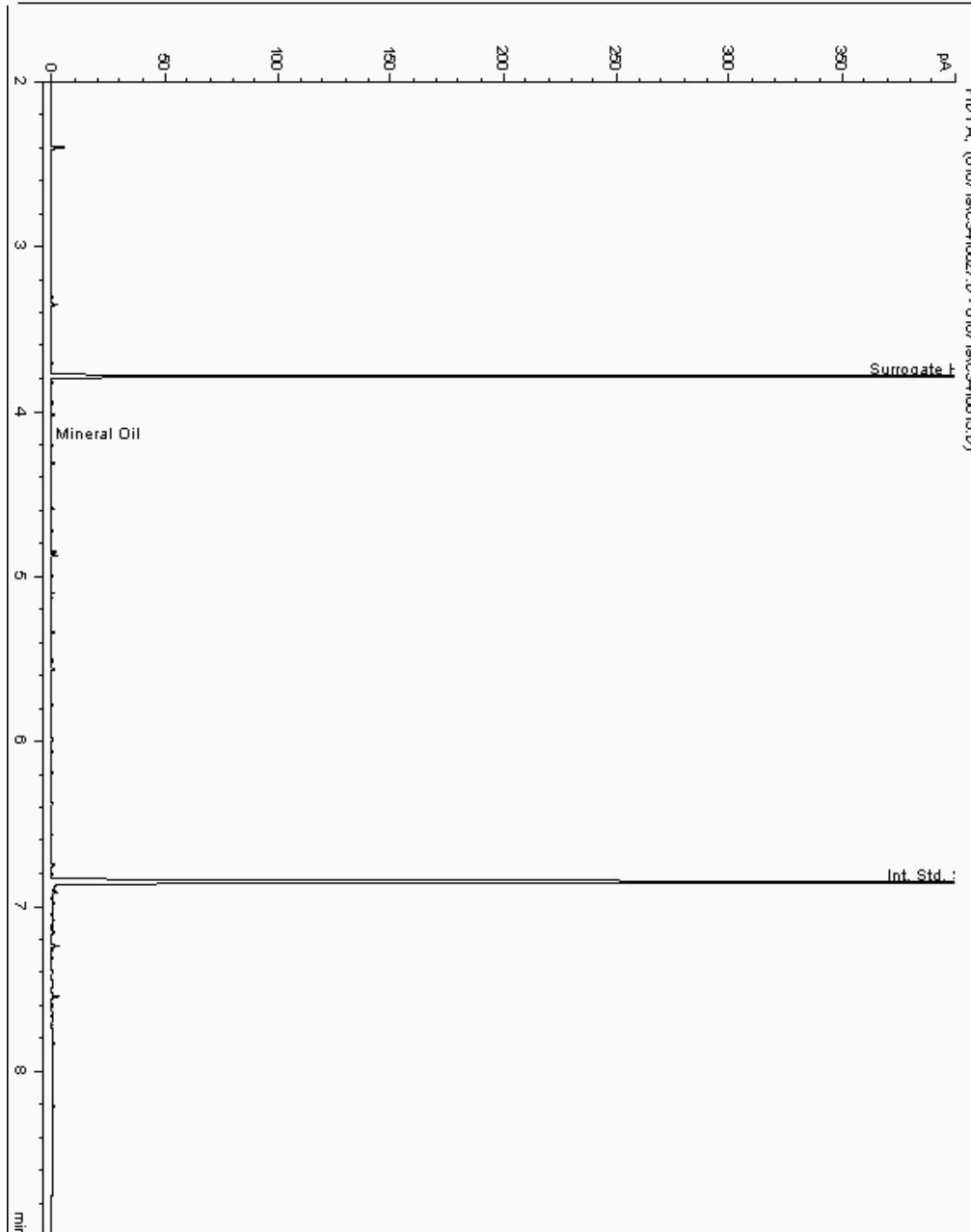
Analysis: Mineral Oil
19028681

Sample No :
Sample ID : BH213

19,028,681 Depth : 0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875475-
Date Acquired : 07/01/19 19:31:41 PM
Units : mc/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

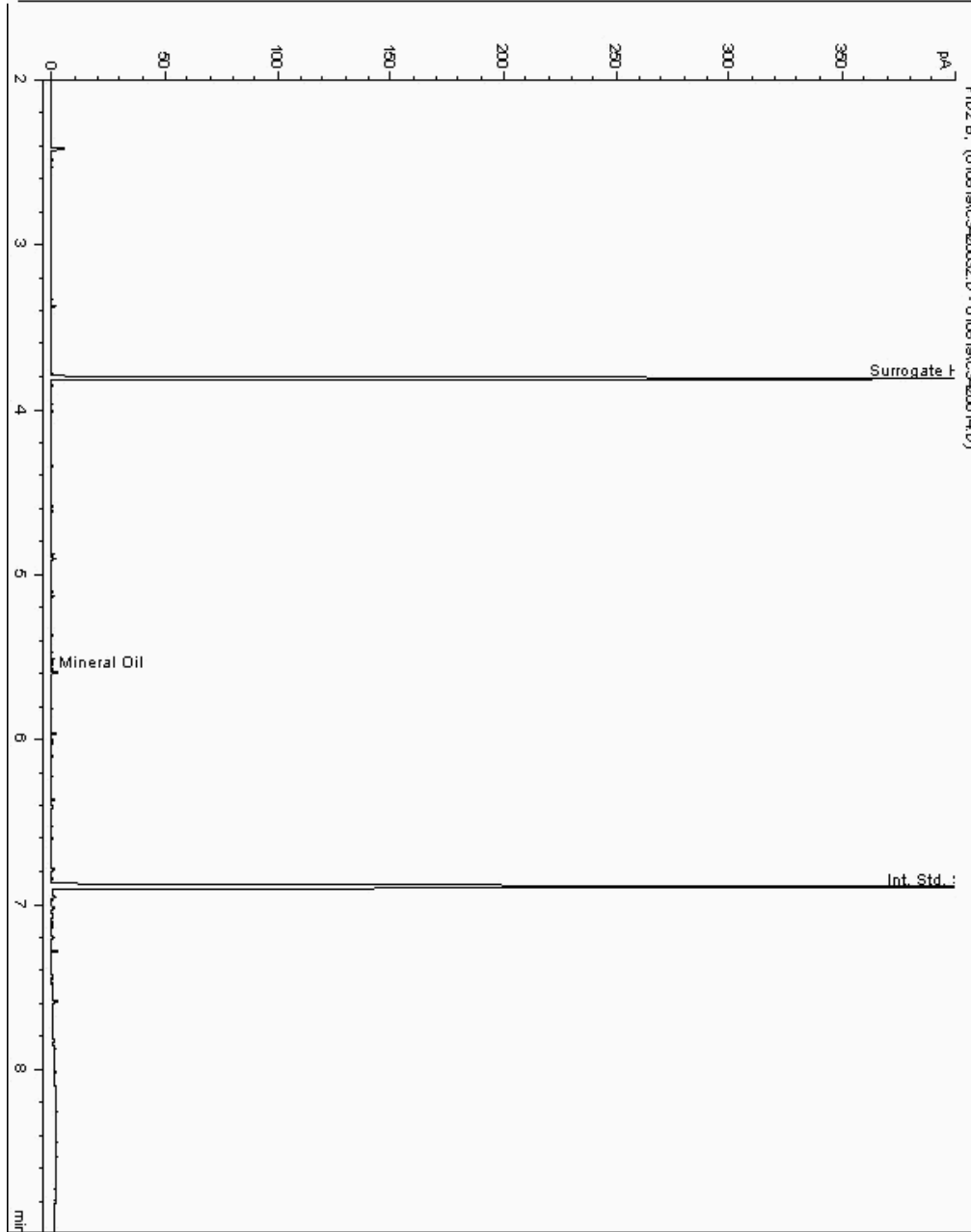
Analysis: Mineral Oil
19028696

Sample No :
Sample ID : BH211

19,028,696Depth :0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17874578-
Date Acquired : 08/01/19 18:30:01 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

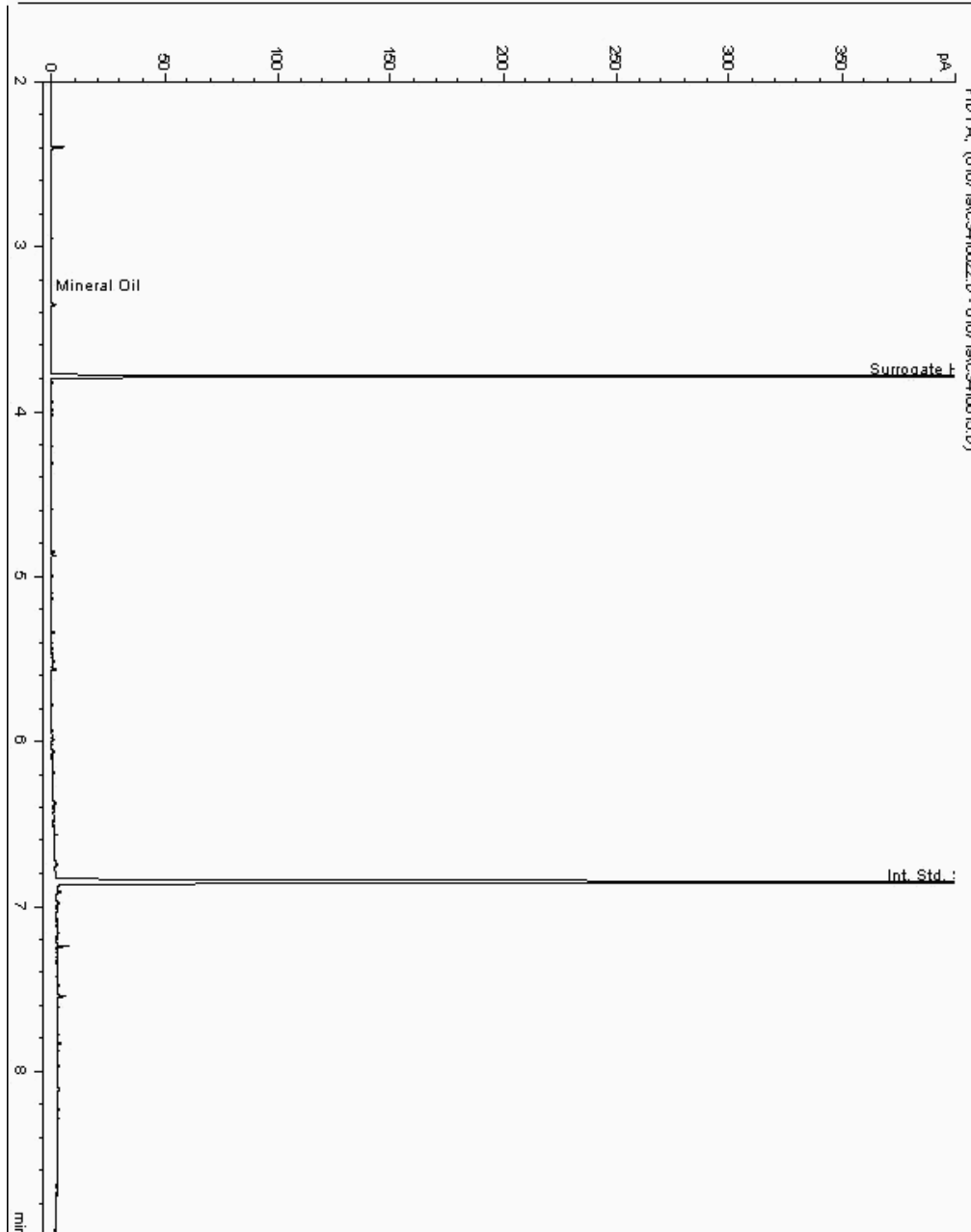
Analysis: Mineral Oil
19028710

Sample No :
Sample ID : BH213

19,028,710 Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875556-
Date Acquired : 07/01/19 17:58:38 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

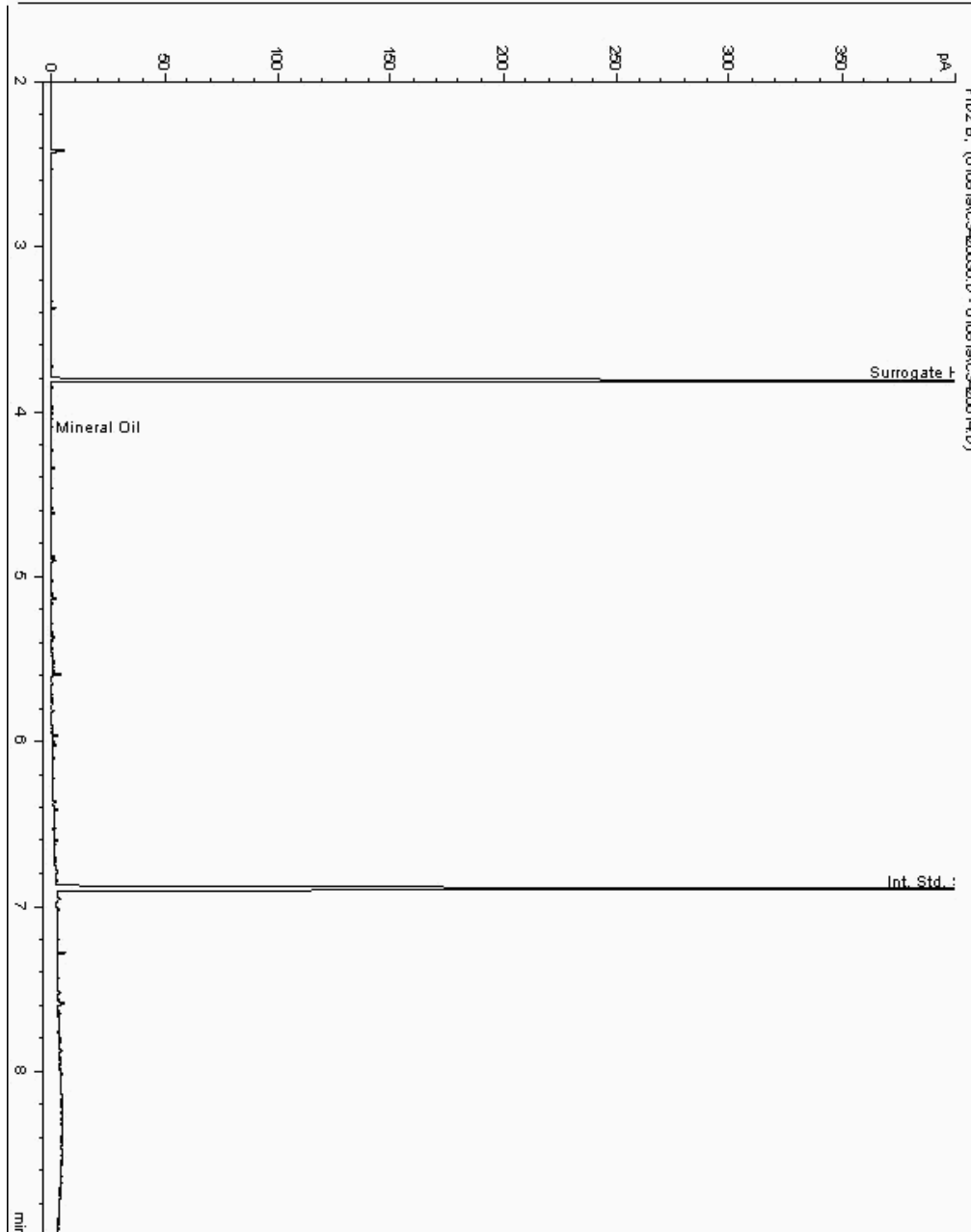
Analysis: Mineral Oil
19028718

Sample No :
Sample ID : BH213

19,028,718 Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17875583-
Date Acquired : 08/01/19 17:49:06 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

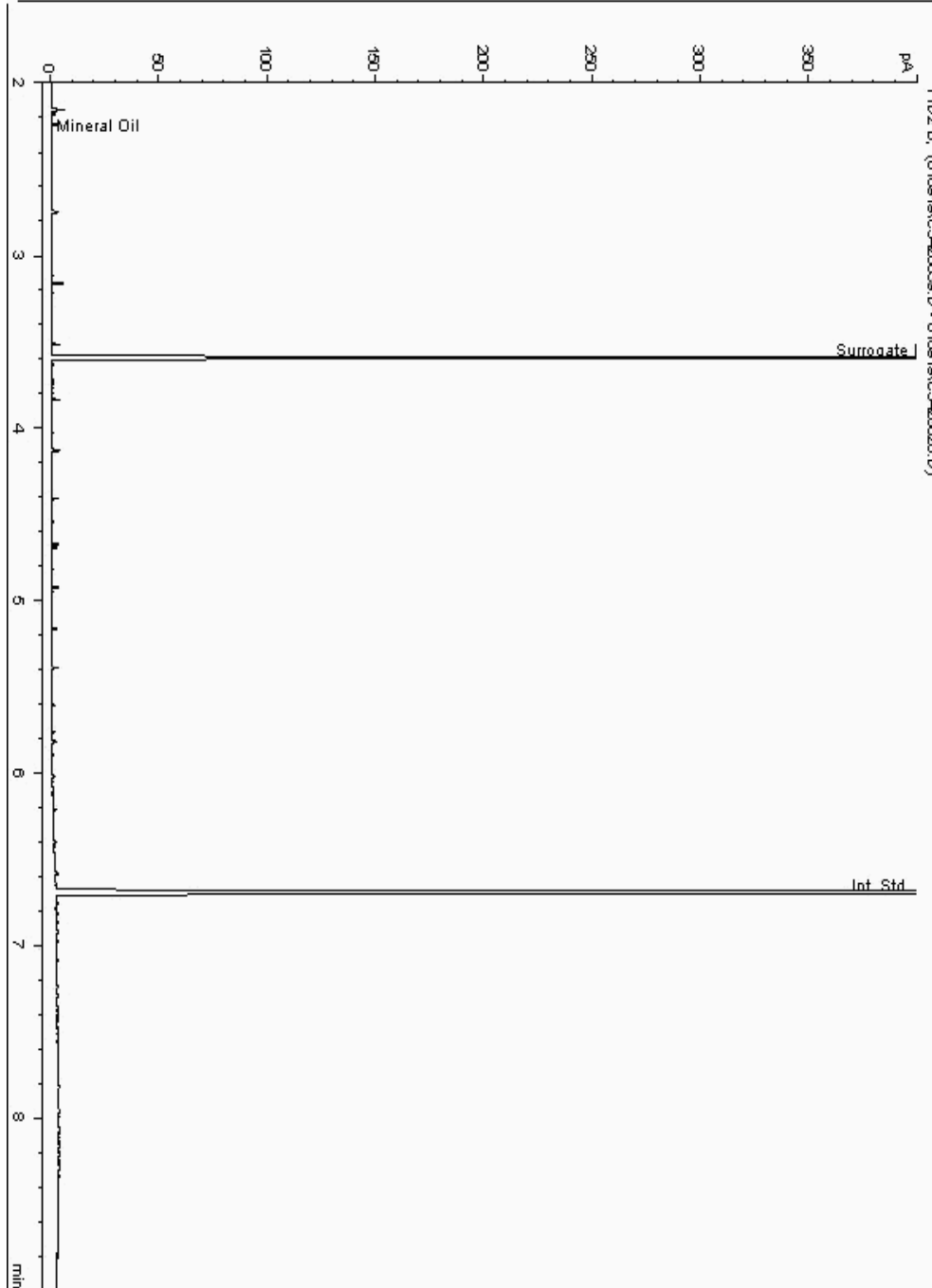
Analysis: Mineral Oil
19068536

Sample No :
Sample ID : BH211

19,068,536Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17914454-
Date Acquired : 09/01/2019 21:28:39 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

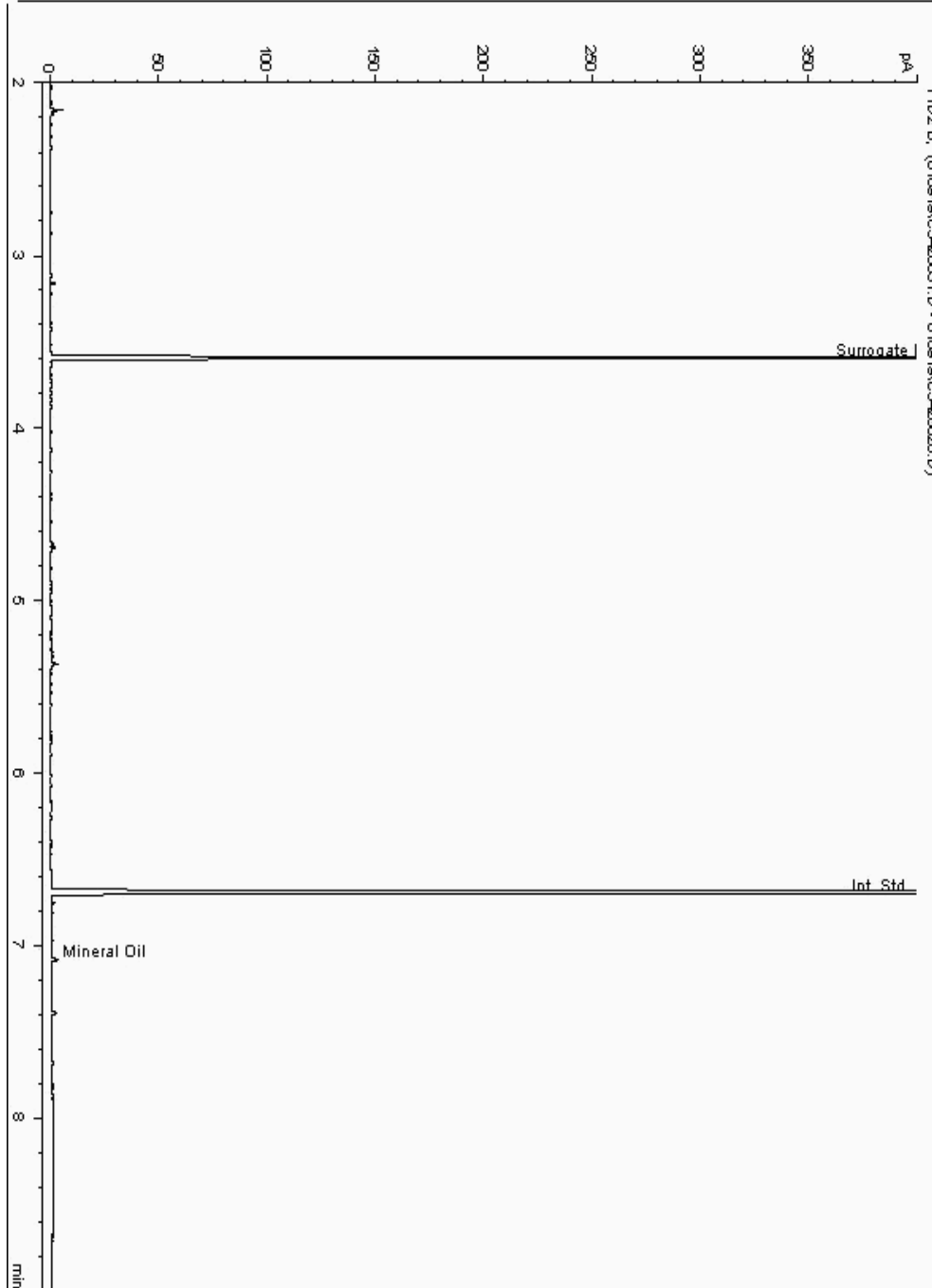
Analysis: Mineral Oil
19069926

Sample No :
Sample ID : BH213

19,069,926 Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17914713-
Date Acquired : 09/01/2019 19:10:11 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Chromatogram

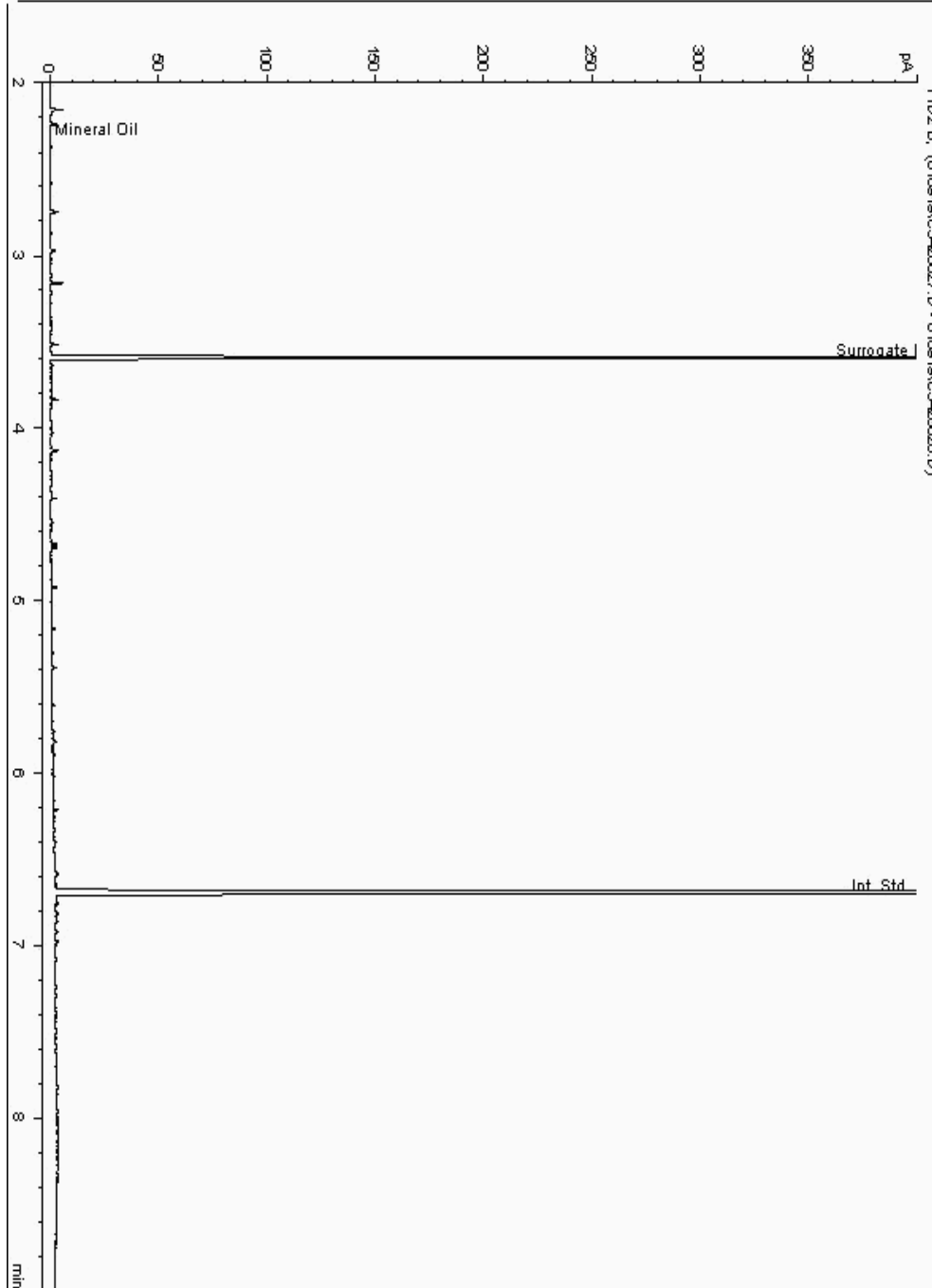
Analysis: Mineral Oil
19070119

Sample No :
Sample ID : BH212

19,070,119Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17914827-
Date Acquired : 09/01/2019 18:05:43 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

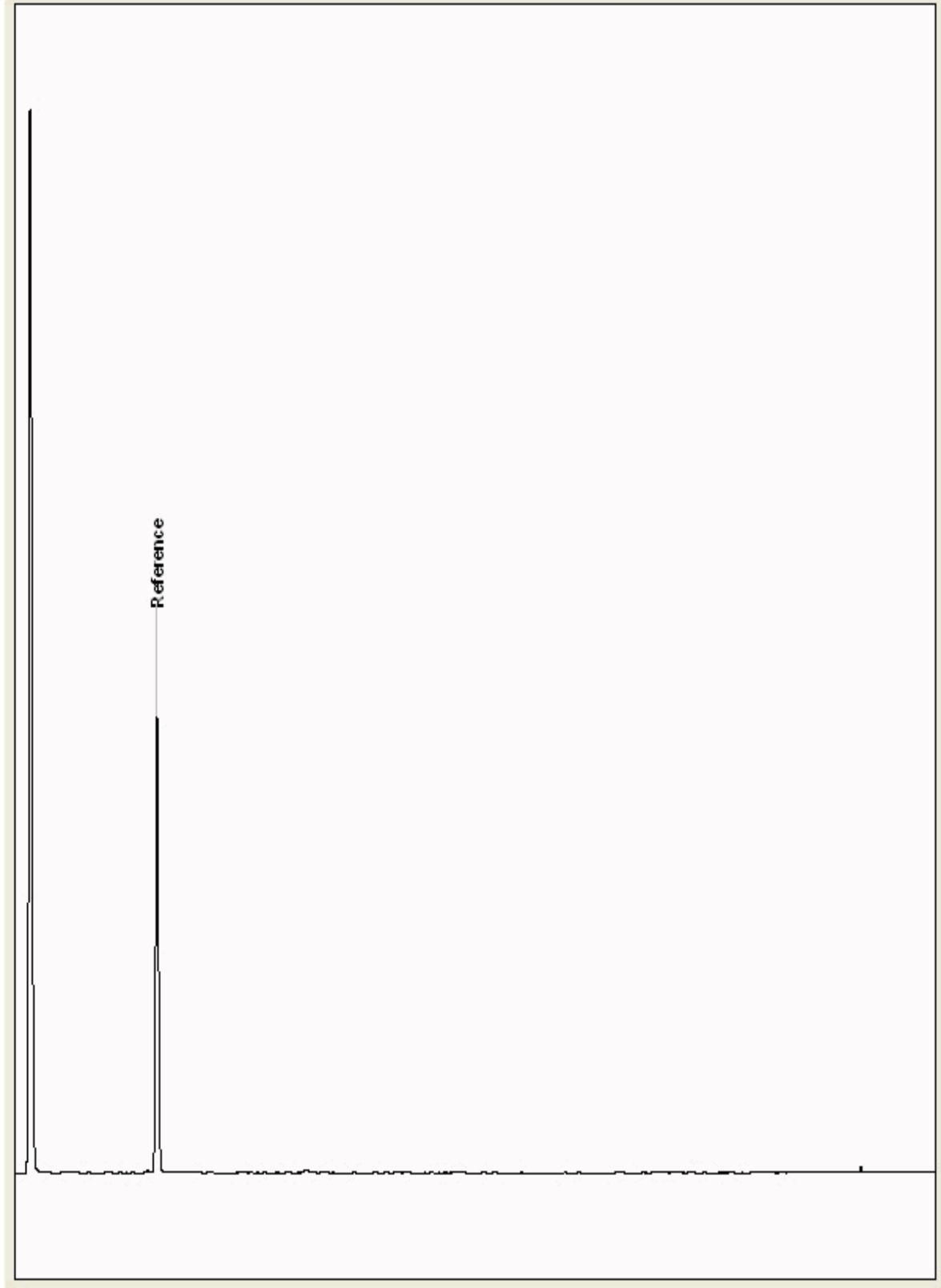
Chromatogram

Analysis: GRO by GC-FID (S)
19068189

Sample No :
Sample ID : BH211

19,068,189Depth :8.00 - 9.00

19068189_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

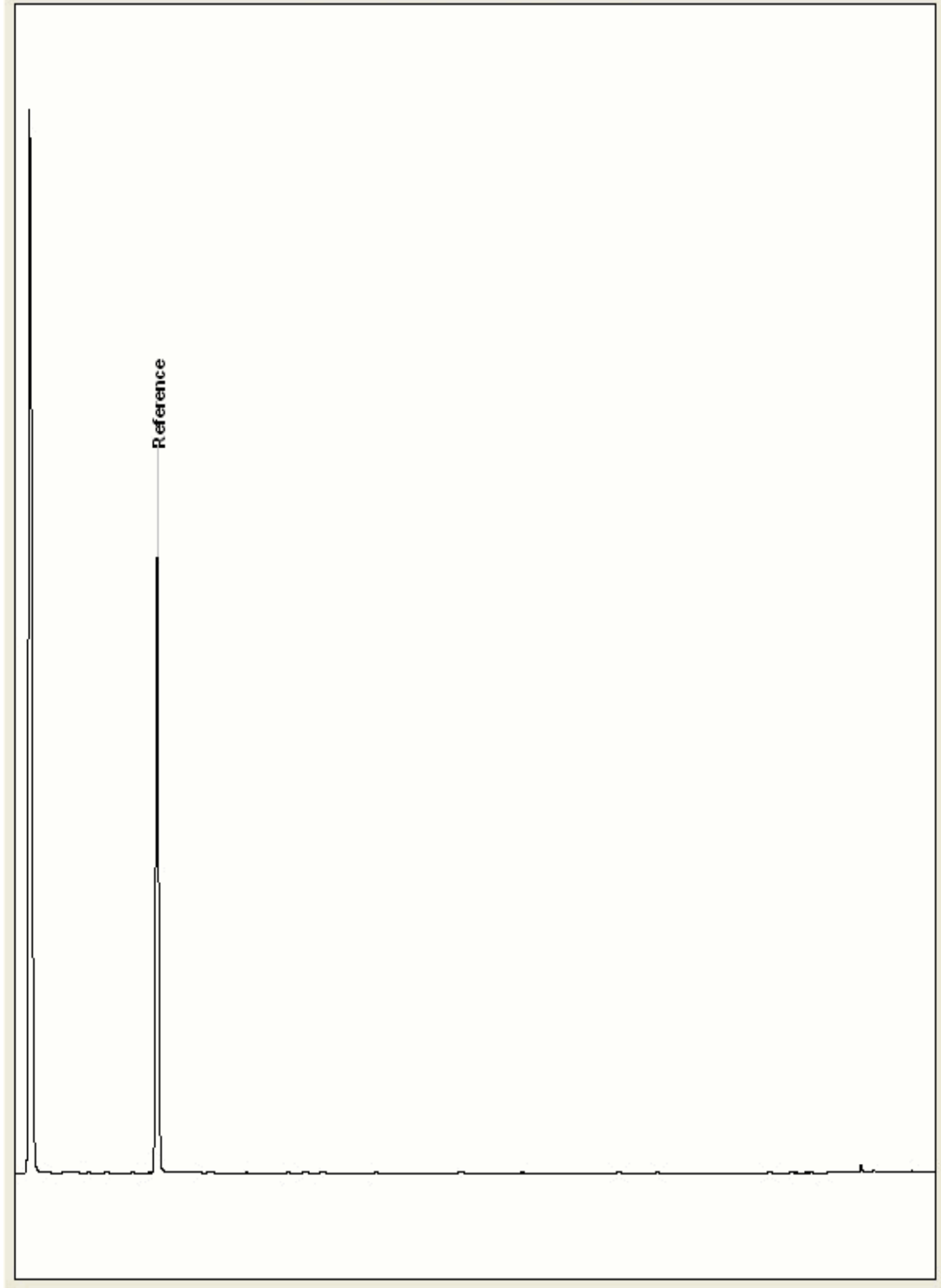
Chromatogram

Analysis: GRO by GC-FID (S)
19068240

Sample No :
Sample ID : BH212

19,068,240**Depth :** 9.00 - 10.50

19068240_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

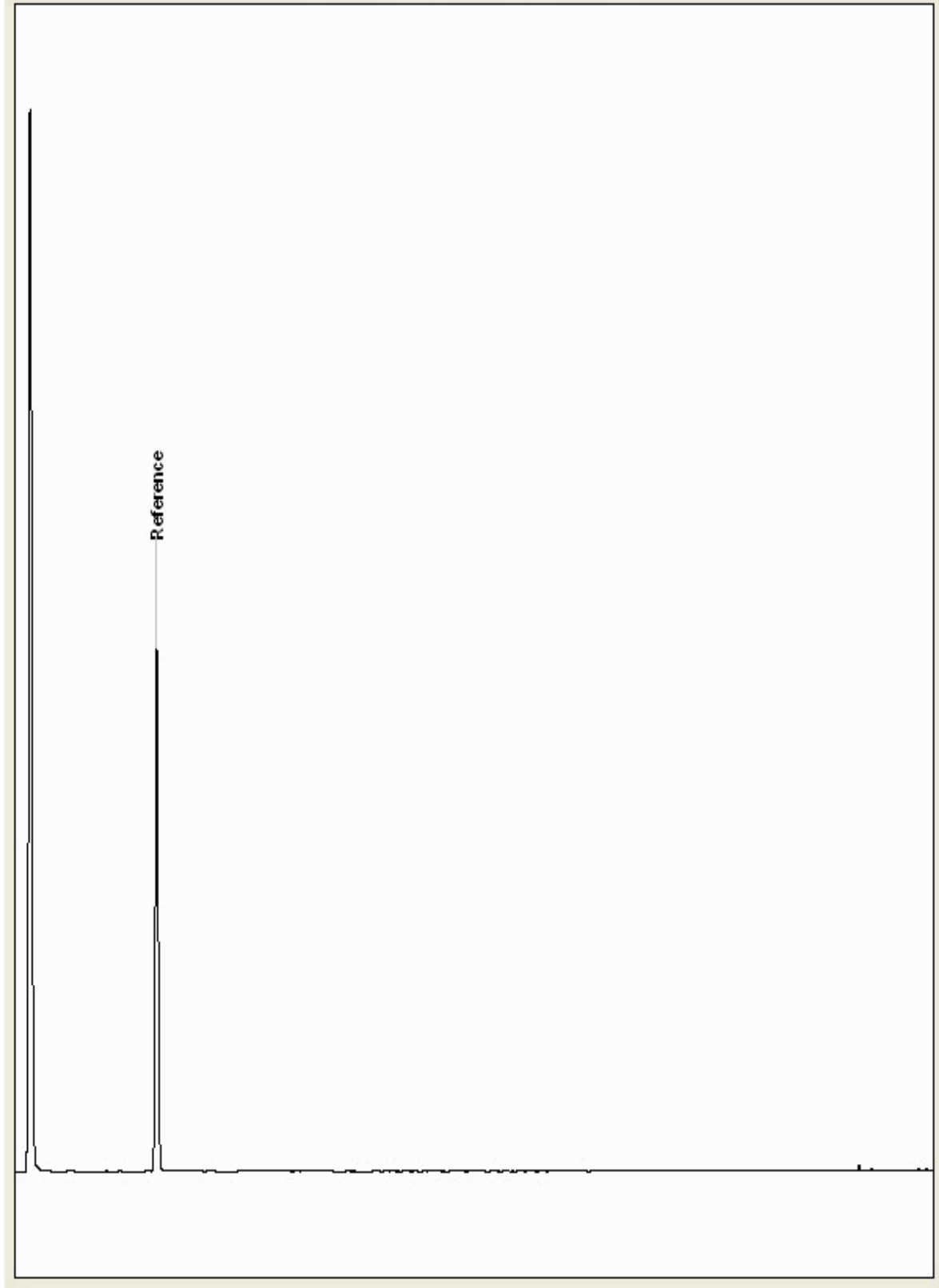
Chromatogram

Analysis: GRO by GC-FID (S)
19068296

Sample No :
Sample ID : BH211

19,068,296Depth : 1.00 - 2.00

19068296_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

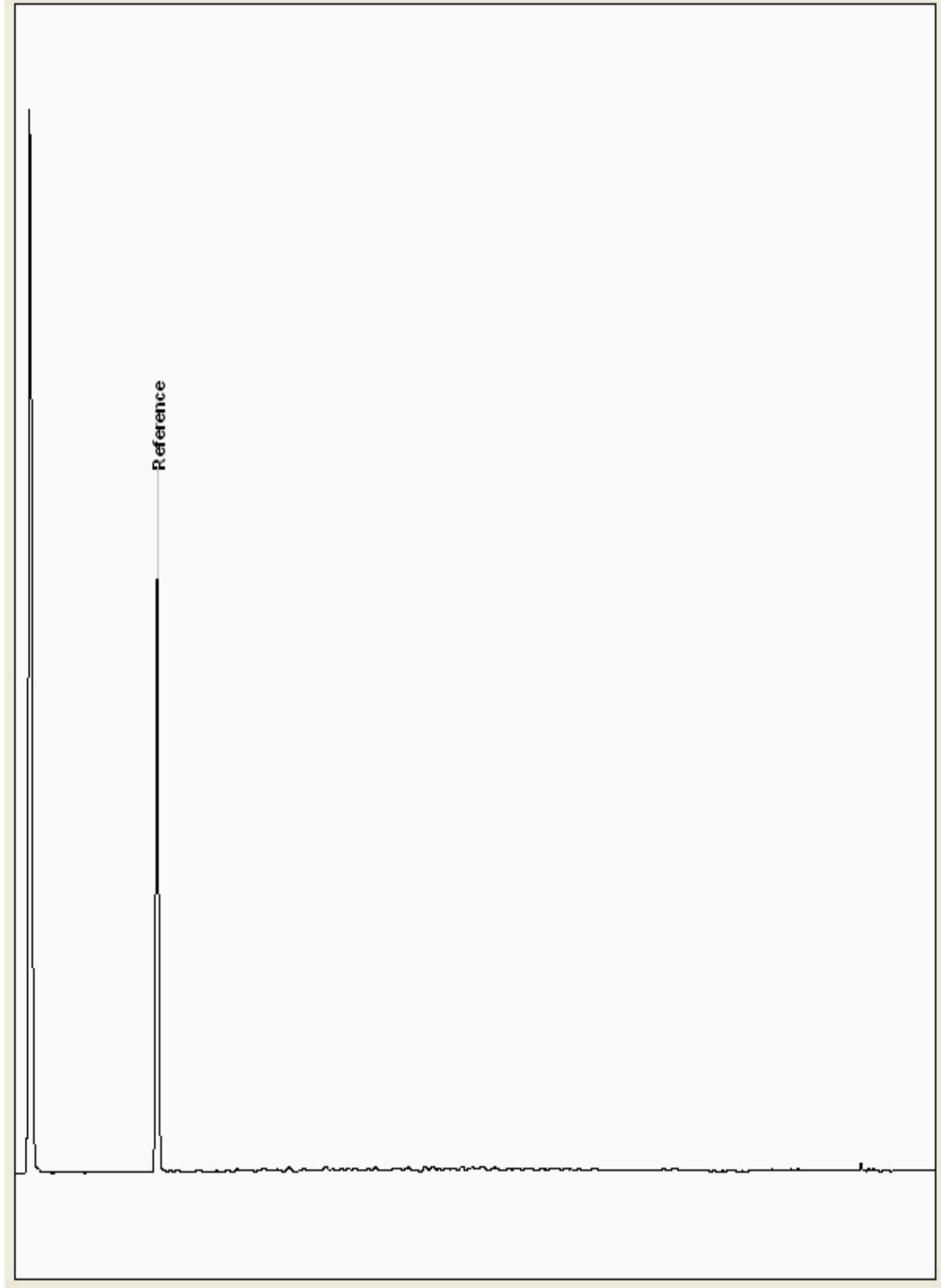
Chromatogram

Analysis: GRO by GC-FID (S)
19068425

Sample No :
Sample ID : BH212

19,068,425Depth :2.00 - 3.00

19068425_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

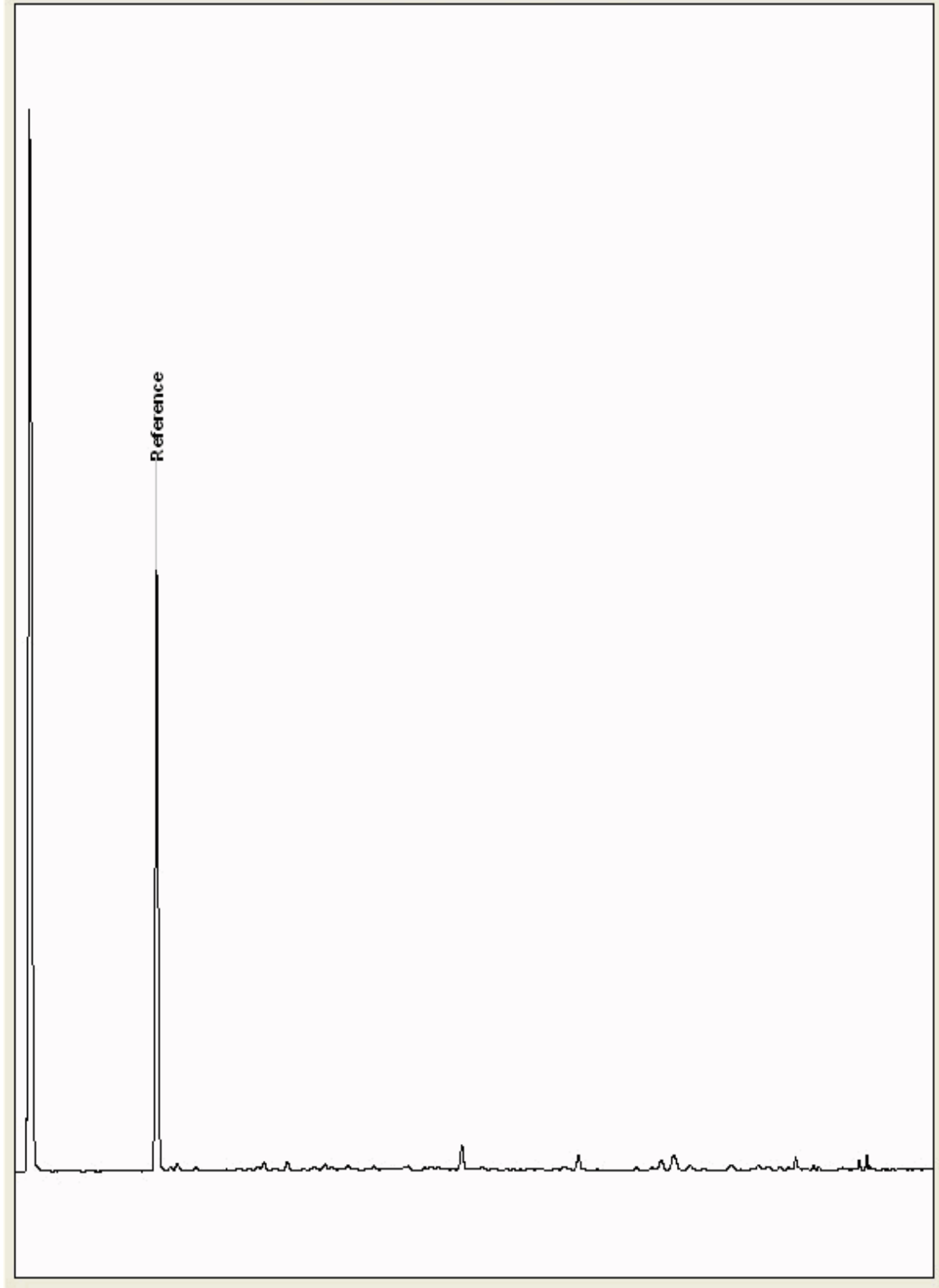
Chromatogram

Analysis: GRO by GC-FID (S)
19068442

Sample No :
Sample ID : BH213

19,068,442Depth : 1.00 - 2.00

19068442_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

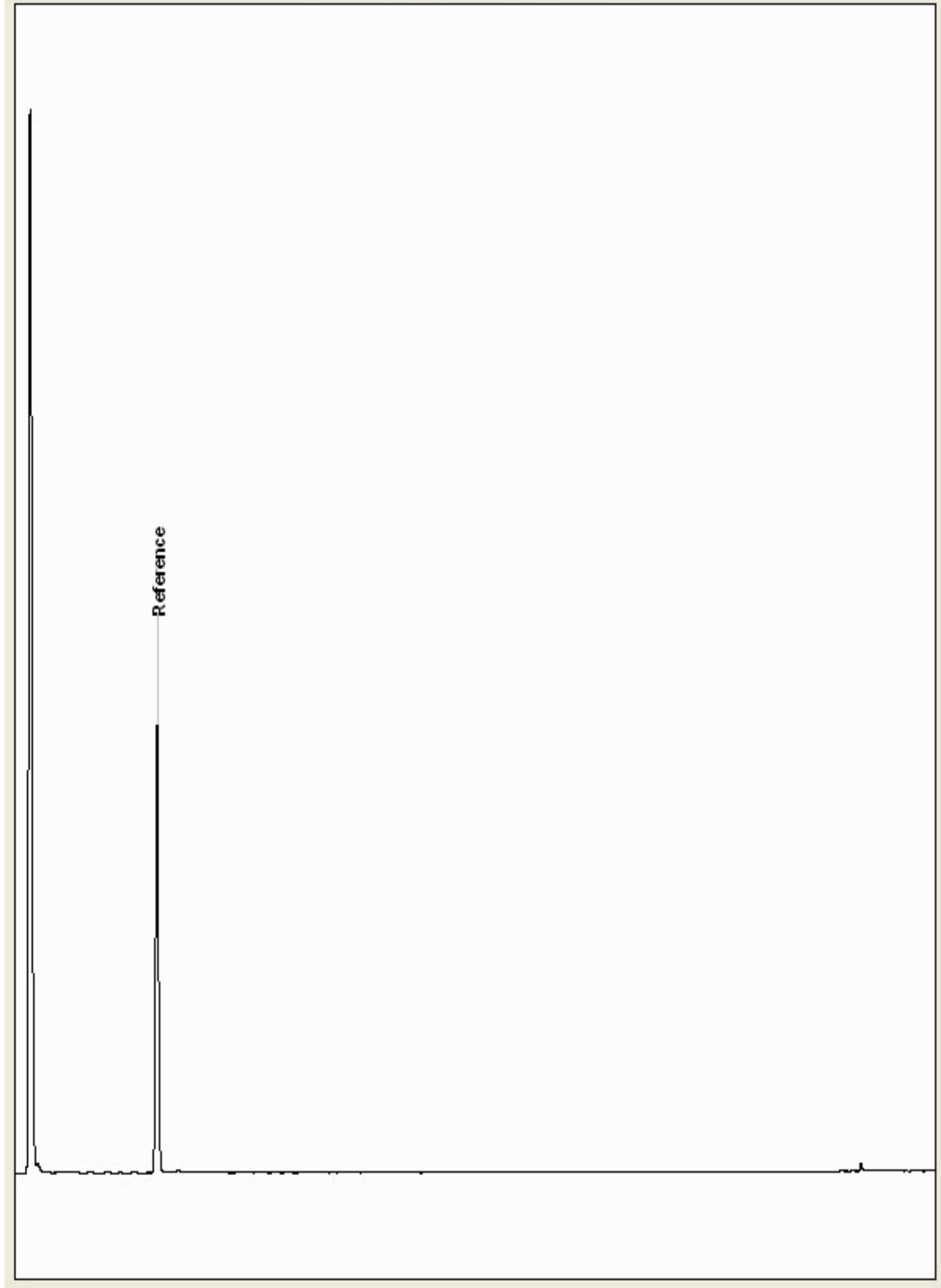
Chromatogram

Analysis: GRO by GC-FID (S)
19068527

Sample No :
Sample ID : BH212

19,068,527Depth :0.00 - 1.00

19068527_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

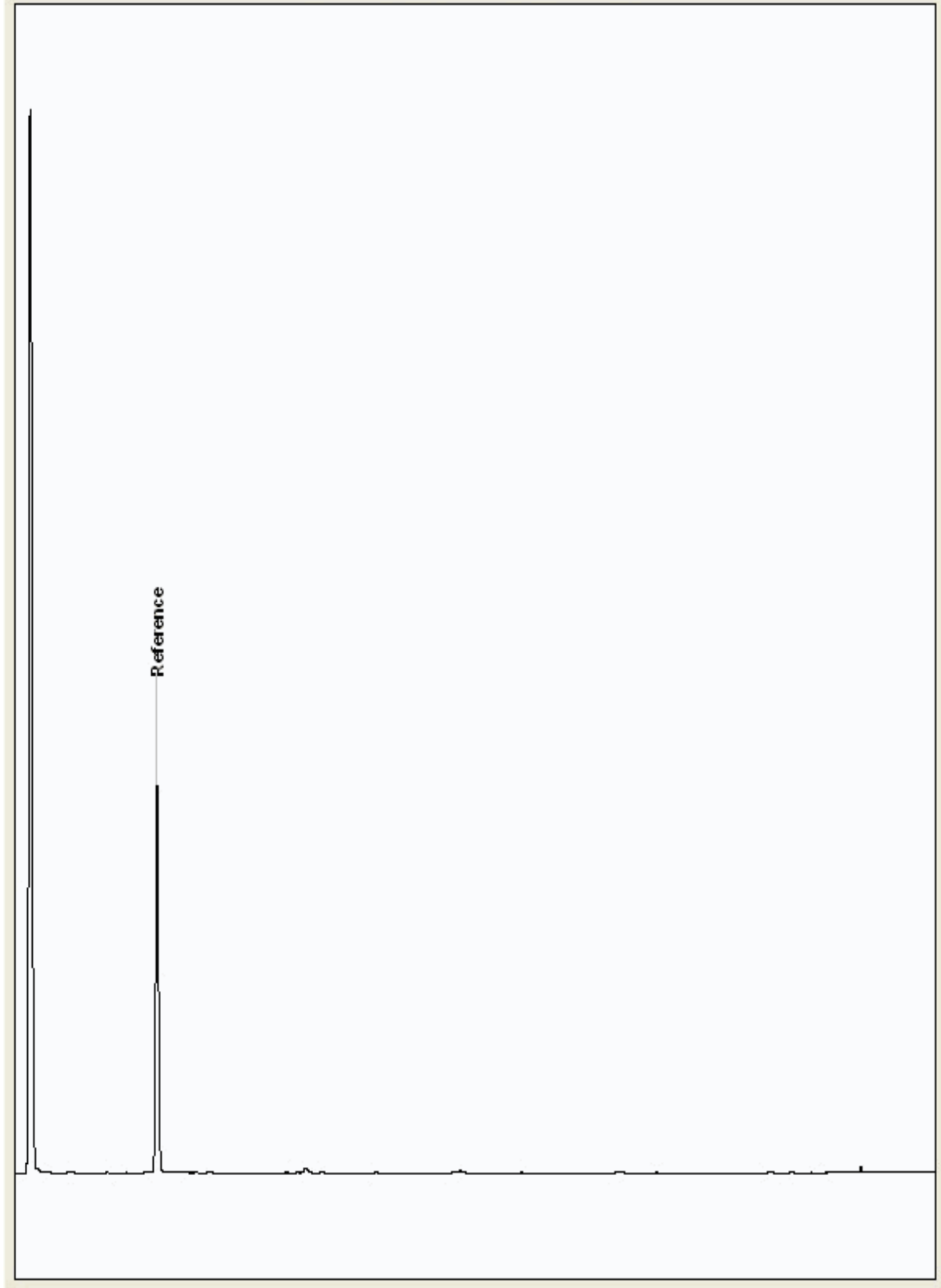
Chromatogram

Analysis: GRO by GC-FID (S)
19068537

Sample No :
Sample ID : BH211

19,068,537 **Depth :** 10.50 - 12.00

19068537_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

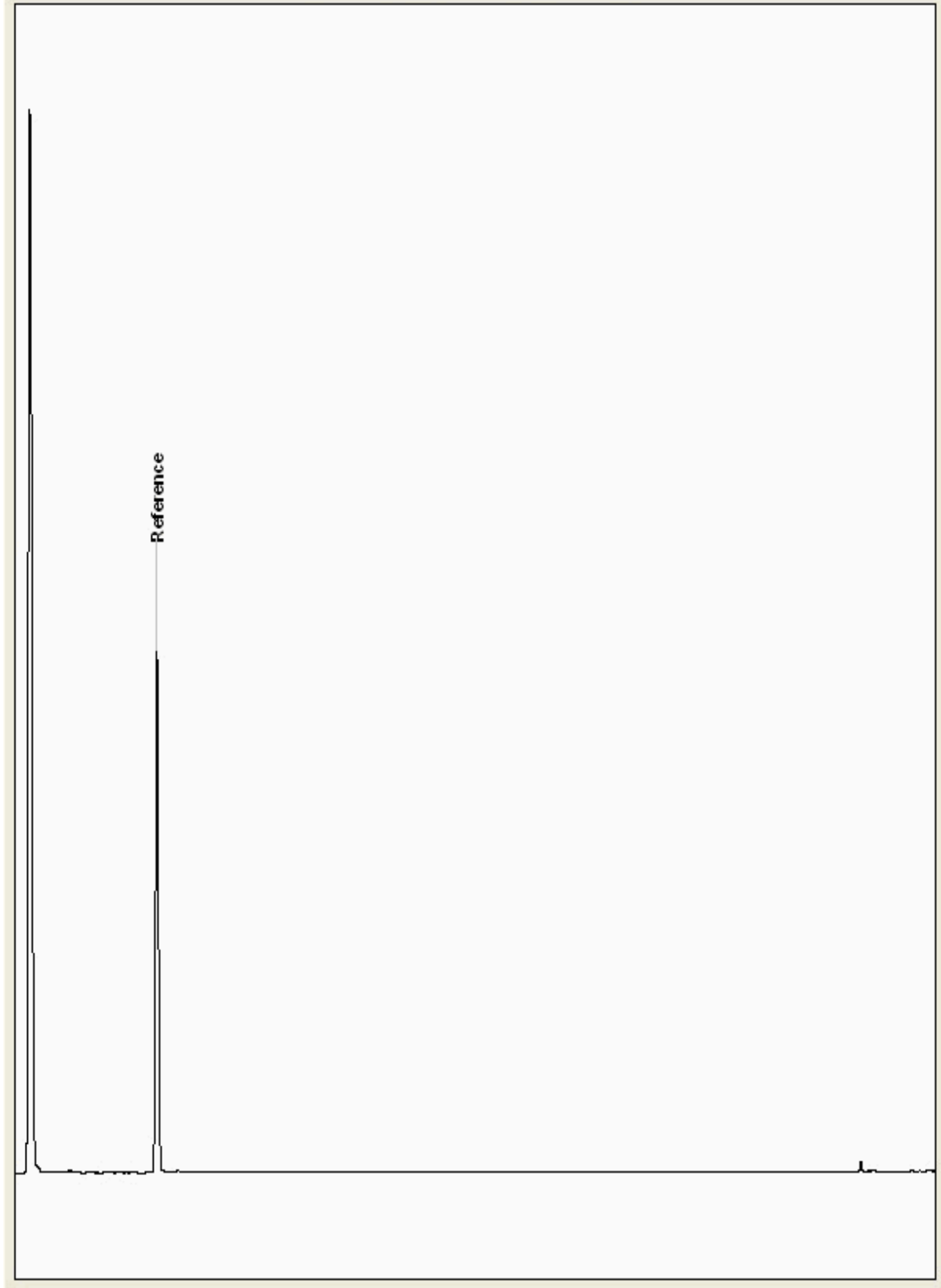
Chromatogram

Analysis: GRO by GC-FID (S)
19068562

Sample No :
Sample ID : BH213

19,068,562**Depth :** 0.50 - 1.00

19068562_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

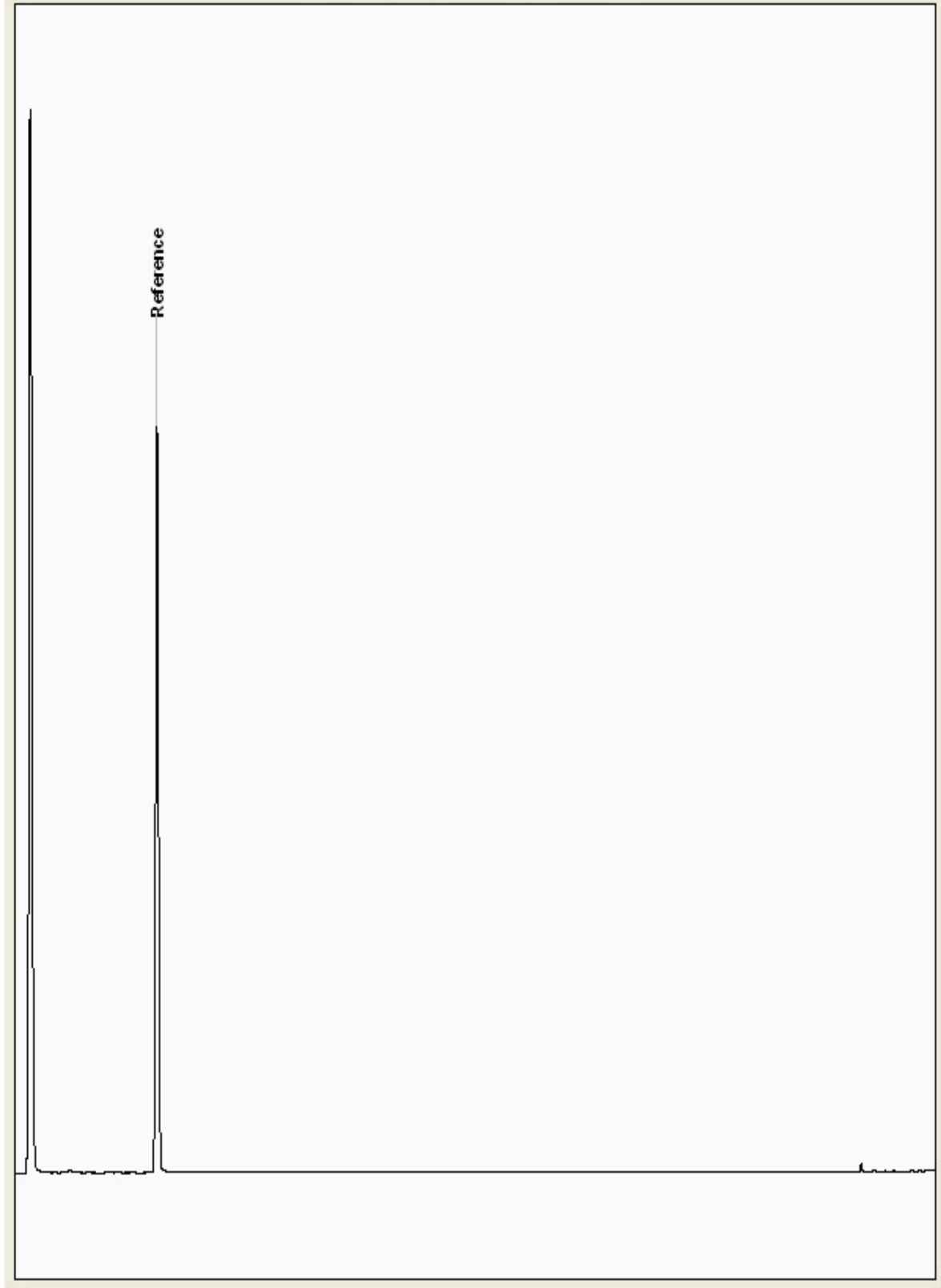
Chromatogram

Analysis: GRO by GC-FID (S)
19068694

Sample No :
Sample ID : BH212

19,068,694Depth :7.00 - 8.00

19068694_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

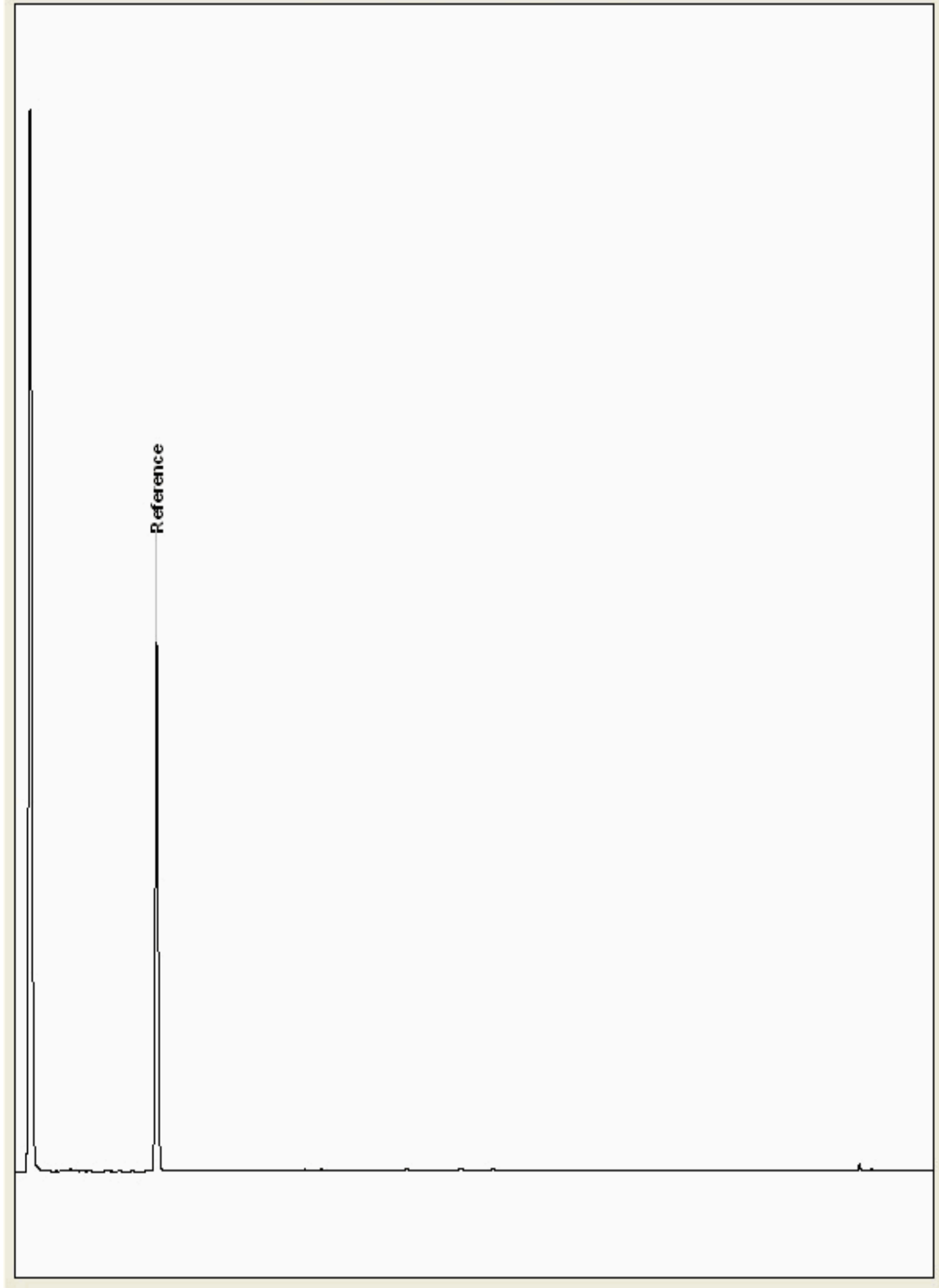
Chromatogram

Analysis: GRO by GC-FID (S)
19068828

Sample No :
Sample ID : BH211

19,068,828 **Depth :** 2.00 - 3.00

19068828_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

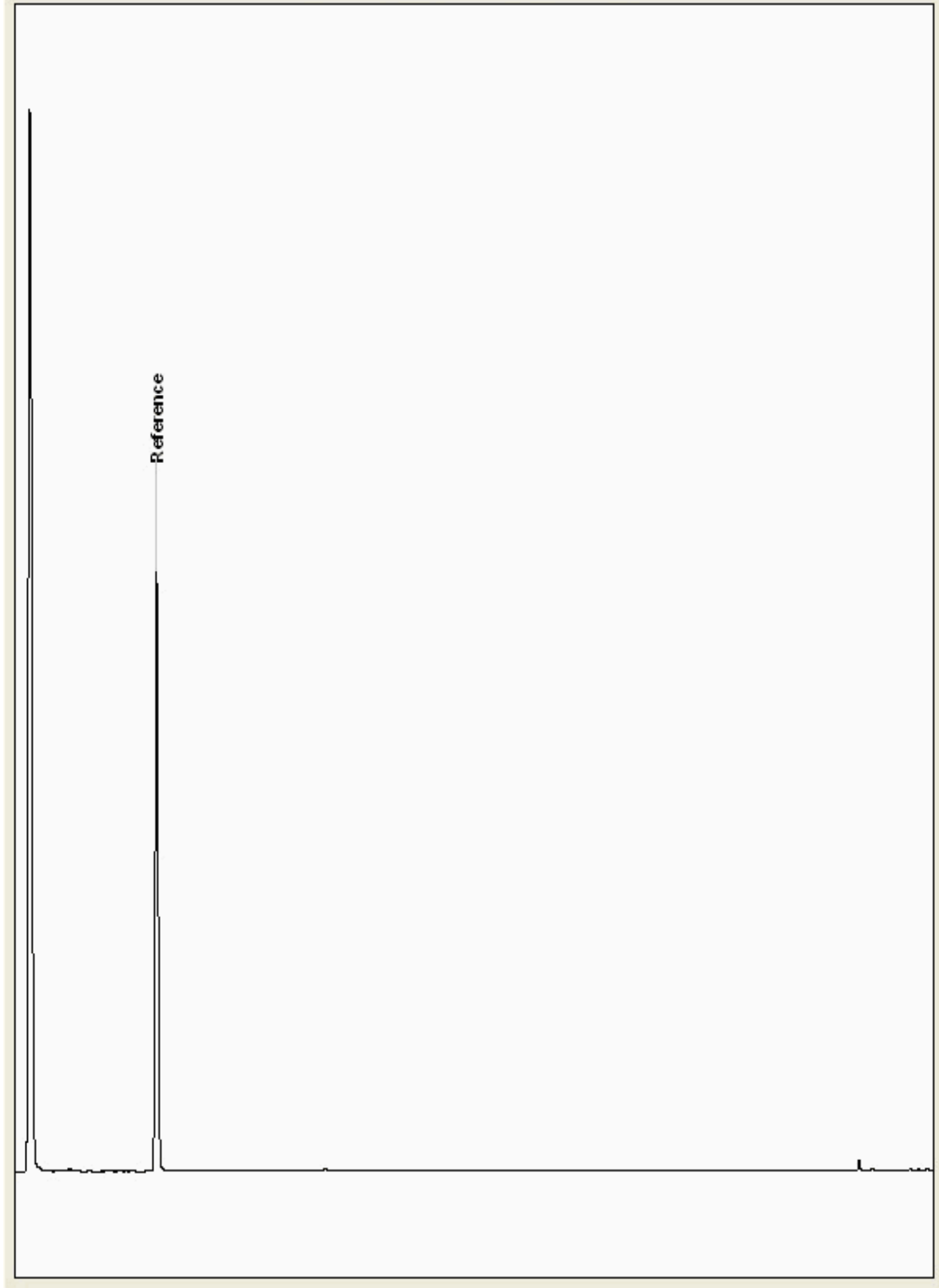
Chromatogram

Analysis: GRO by GC-FID (S)
19069224

Sample No :
Sample ID : BH212

19,069,224**Depth :**3.00 - 4.00

19069224_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

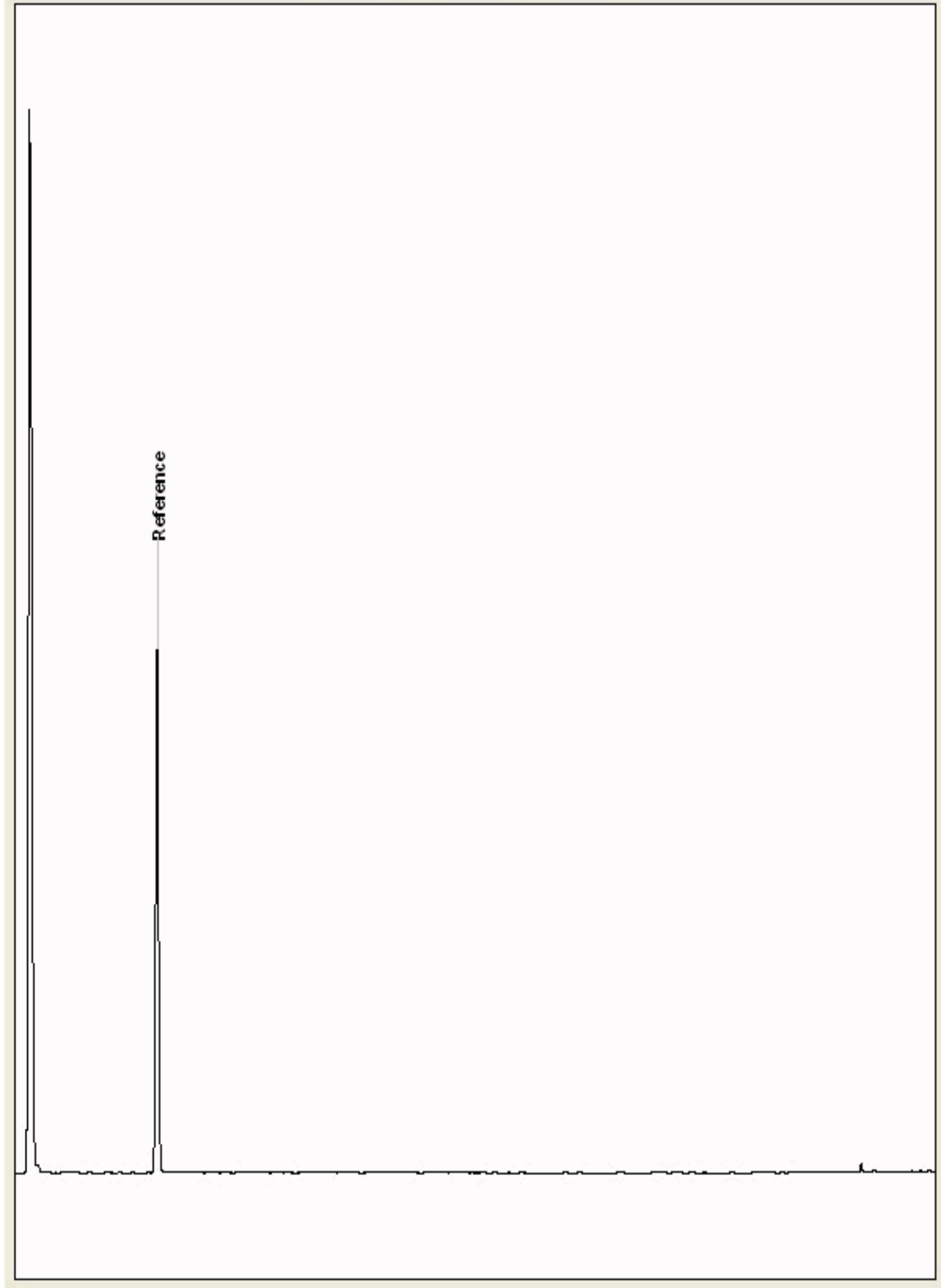
Chromatogram

Analysis: GRO by GC-FID (S)
19069291

Sample No :
Sample ID : BH213

19,069,291 **Depth :** 5.00 - 6.00

19069291_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

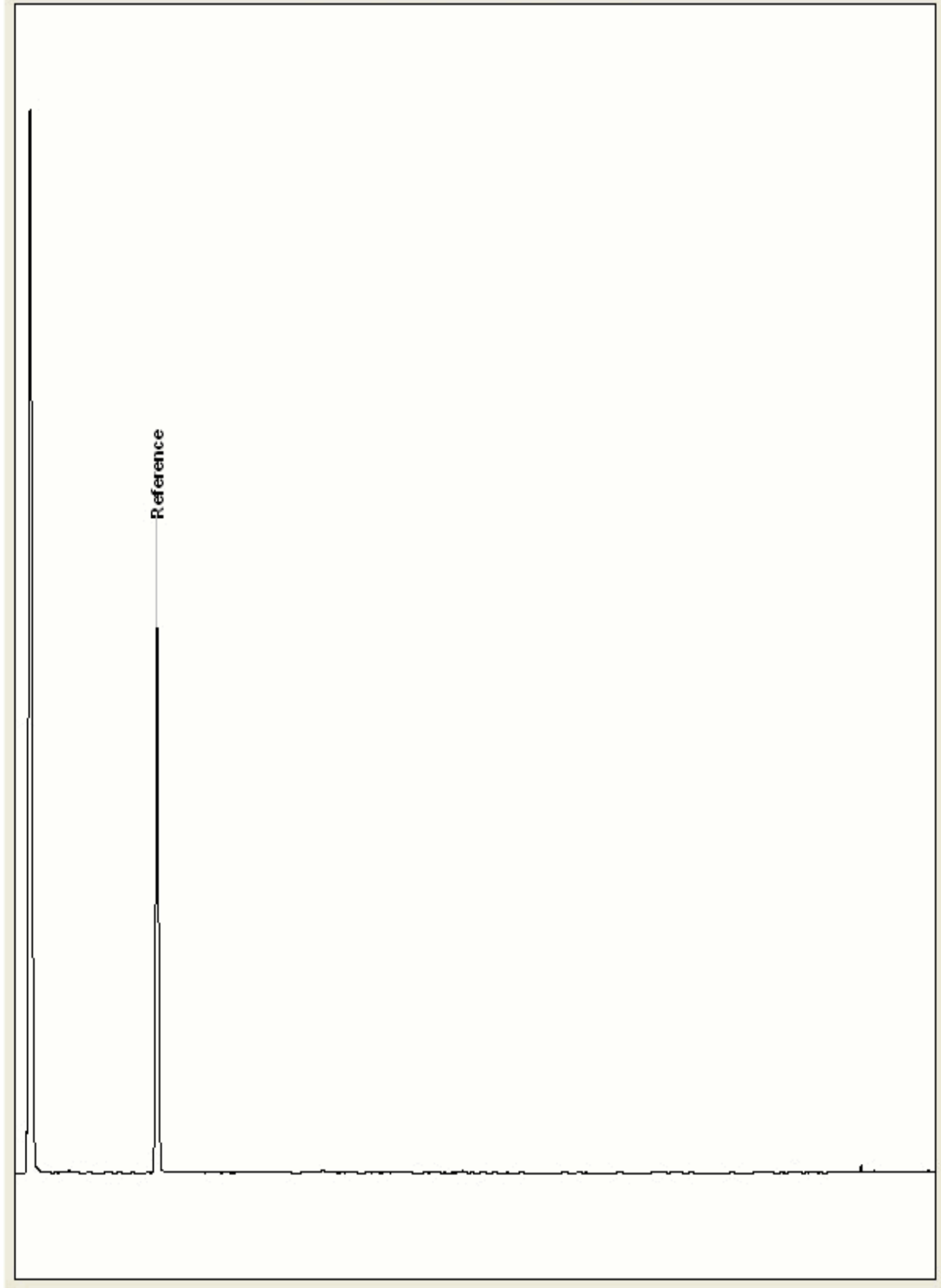
Chromatogram

Analysis: GRO by GC-FID (S)
19069356

Sample No :
Sample ID : BH213

19,069,356**Depth :** 9.00 - 10.00

19069356_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

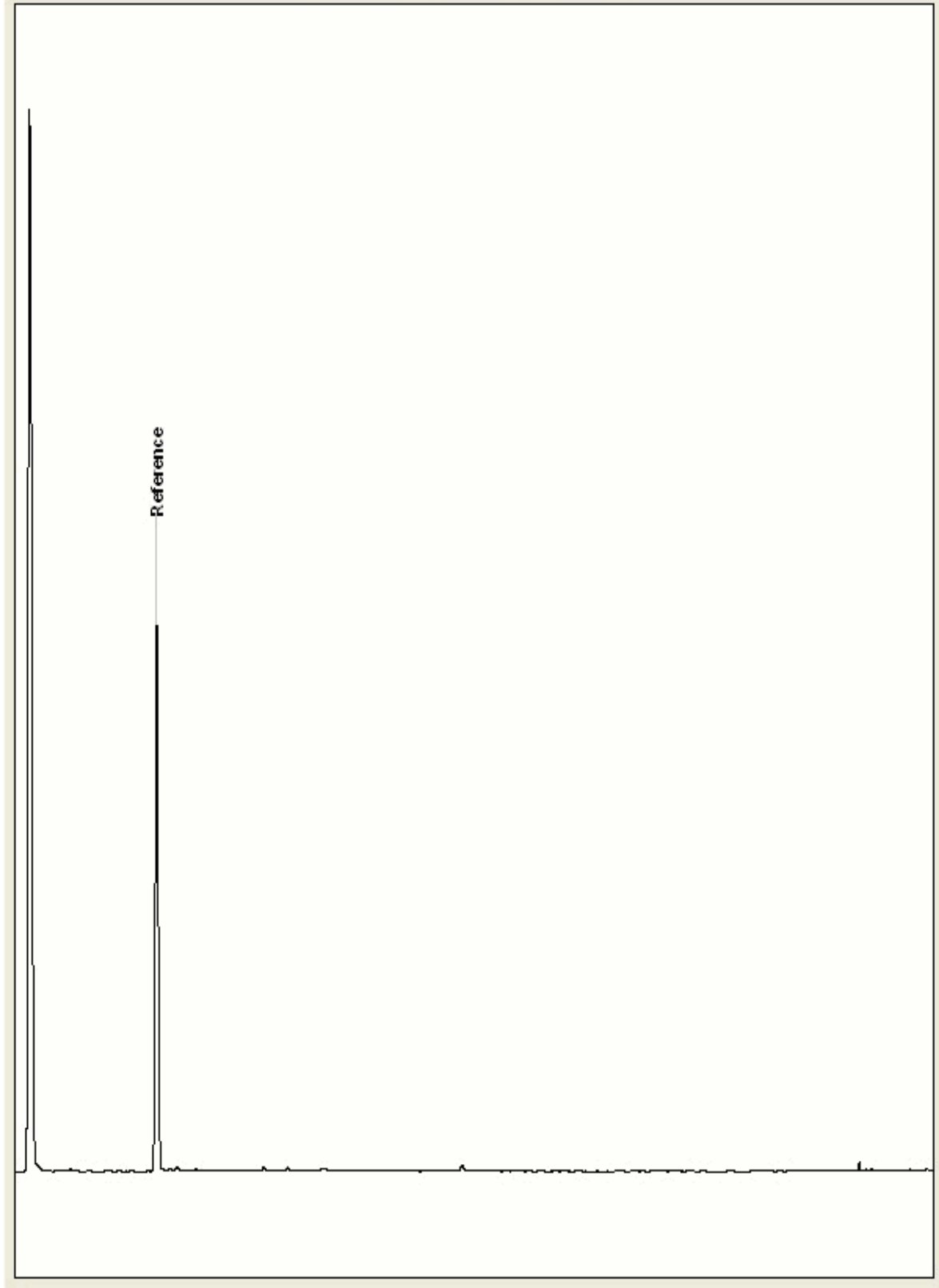
Chromatogram

Analysis: GRO by GC-FID (S)
19069396

Sample No :
Sample ID : BH213

19,069,396Depth :2.00 - 3.00

19069396_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

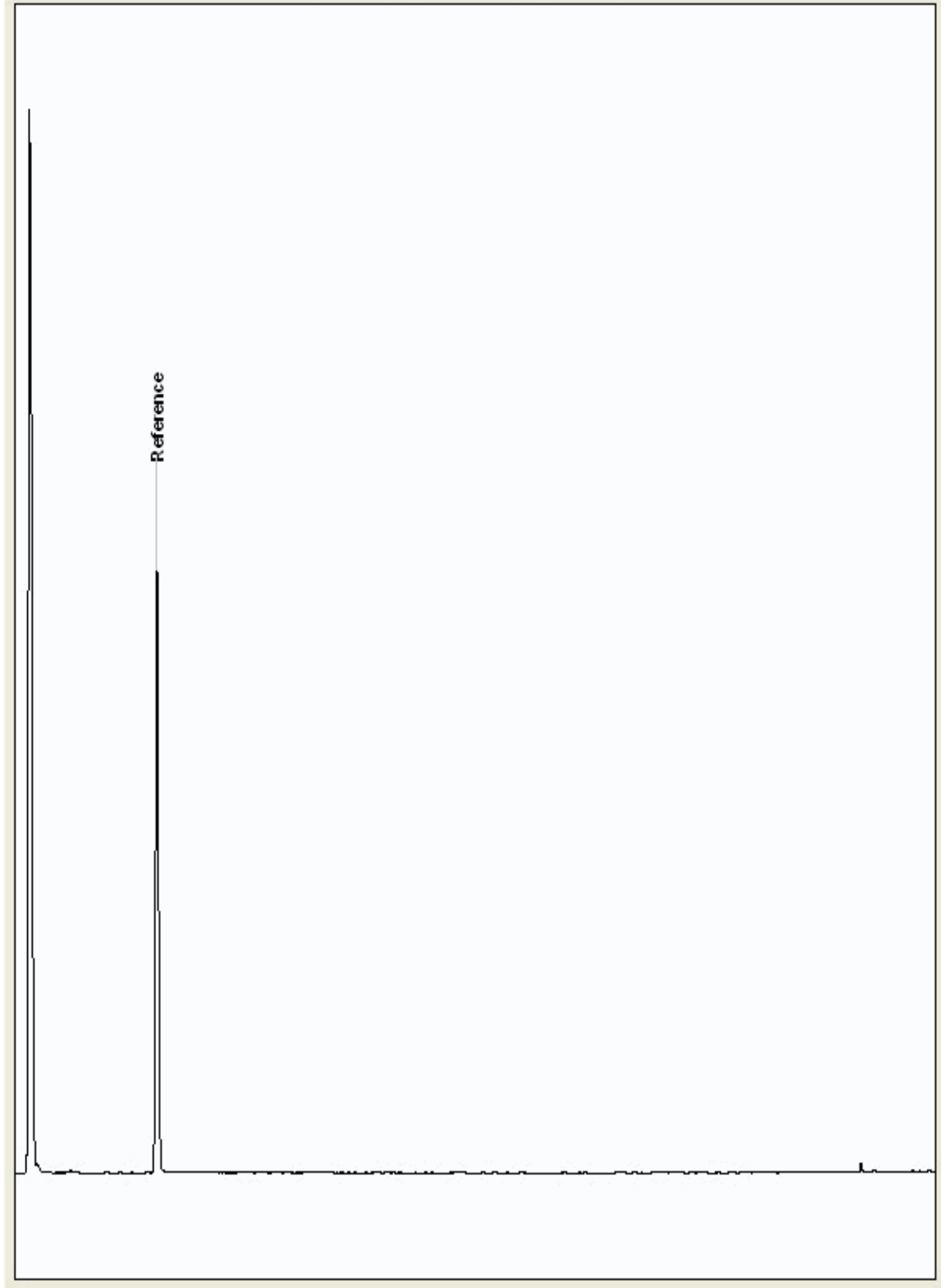
Chromatogram

Analysis: GRO by GC-FID (S)
19069417

Sample No :
Sample ID : BH211

19,069,417Depth :0.50 - 1.00

19069417_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

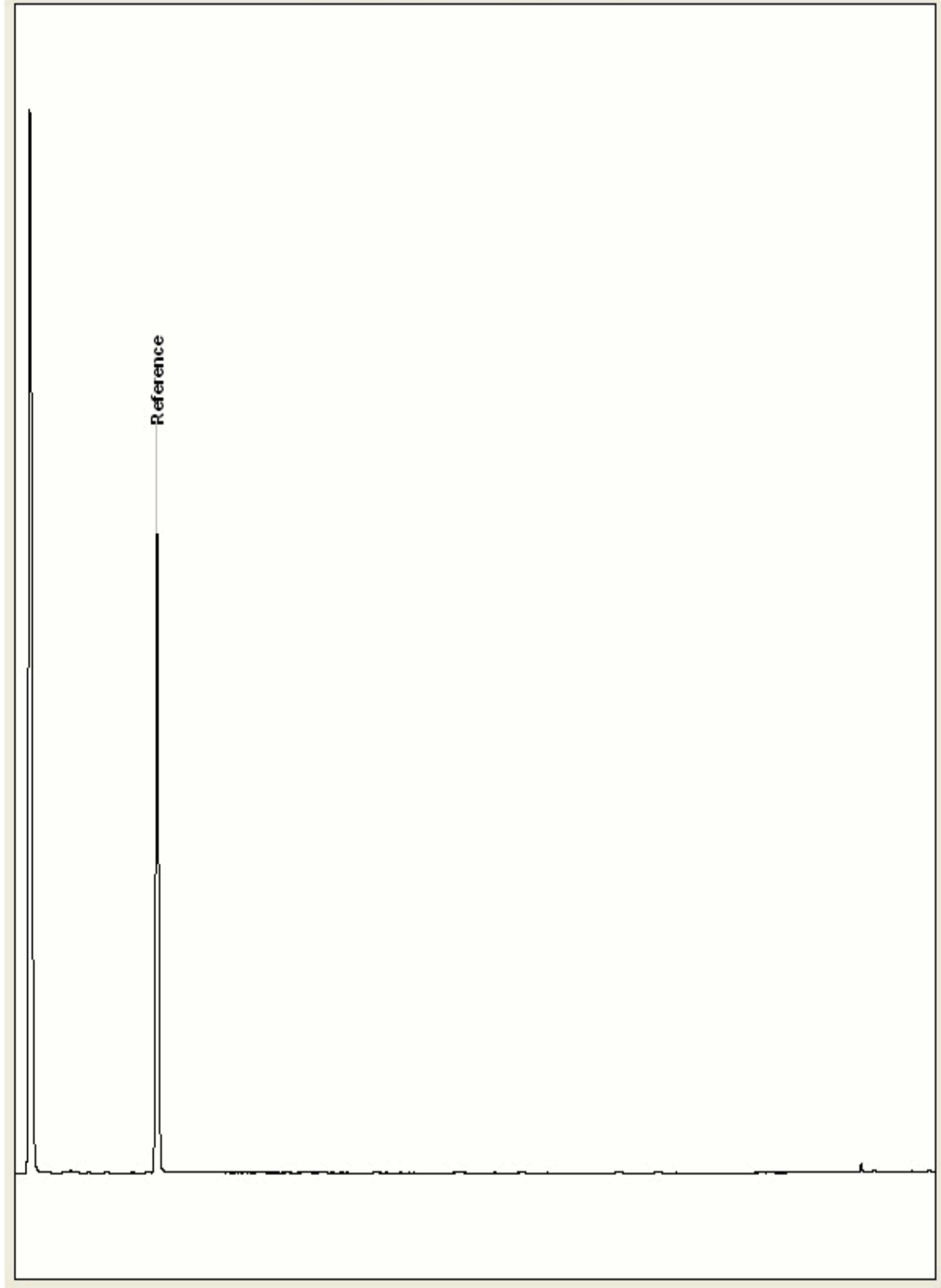
Chromatogram

Analysis: GRO by GC-FID (S)
19069446

Sample No :
Sample ID : BH212

19,069,446 Depth : 10.50 - 12.00

19069446_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

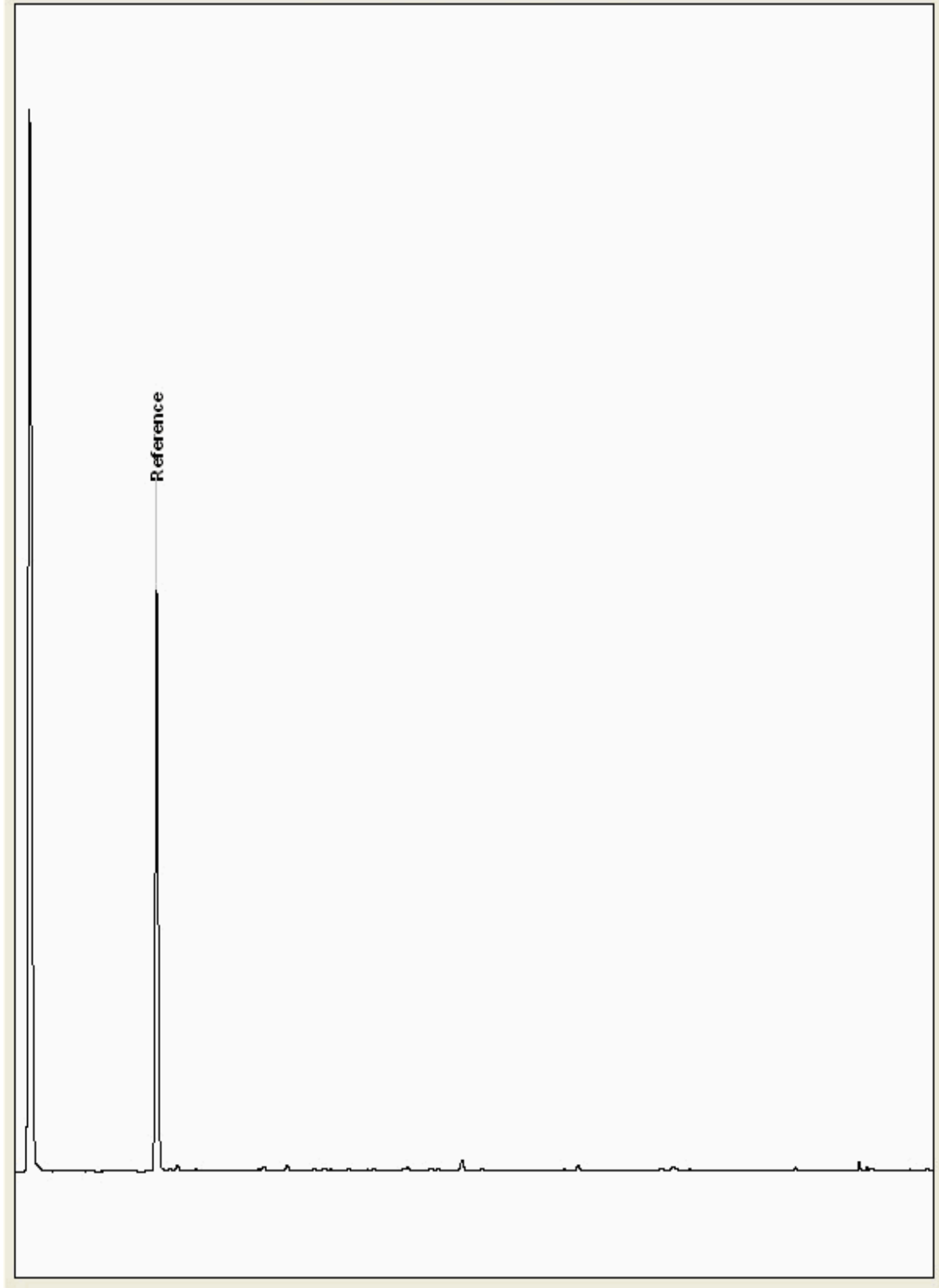
Chromatogram

Analysis: GRO by GC-FID (S)
19069471

Sample No :
Sample ID : BH213

19,069,471 **Depth :** 4.00 - 5.00

19069471_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

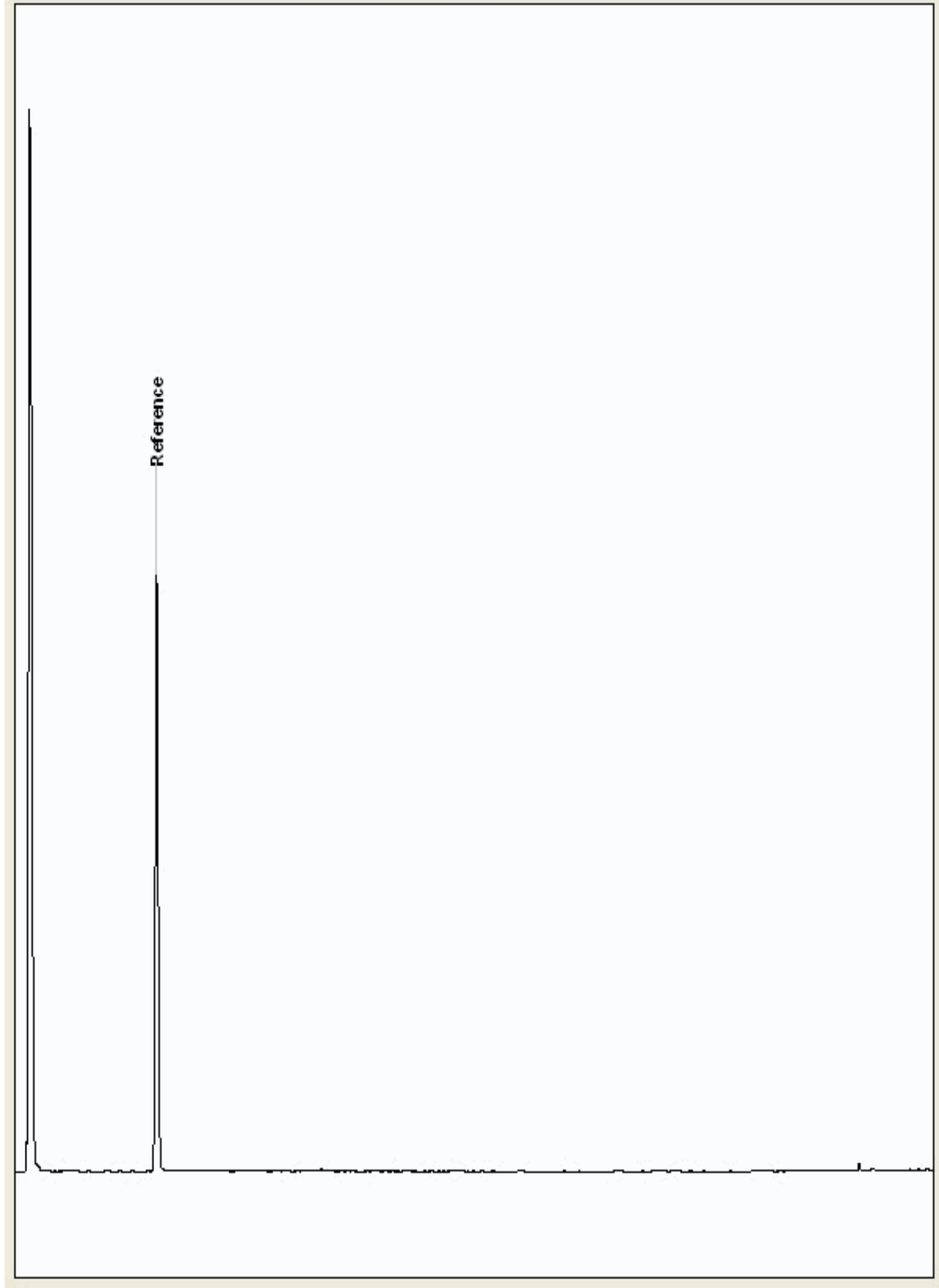
Chromatogram

Analysis: GRO by GC-FID (S)
19069712

Sample No :
Sample ID : BH211

19,069,712 **Depth :** 4.50 - 6.00

19069712_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

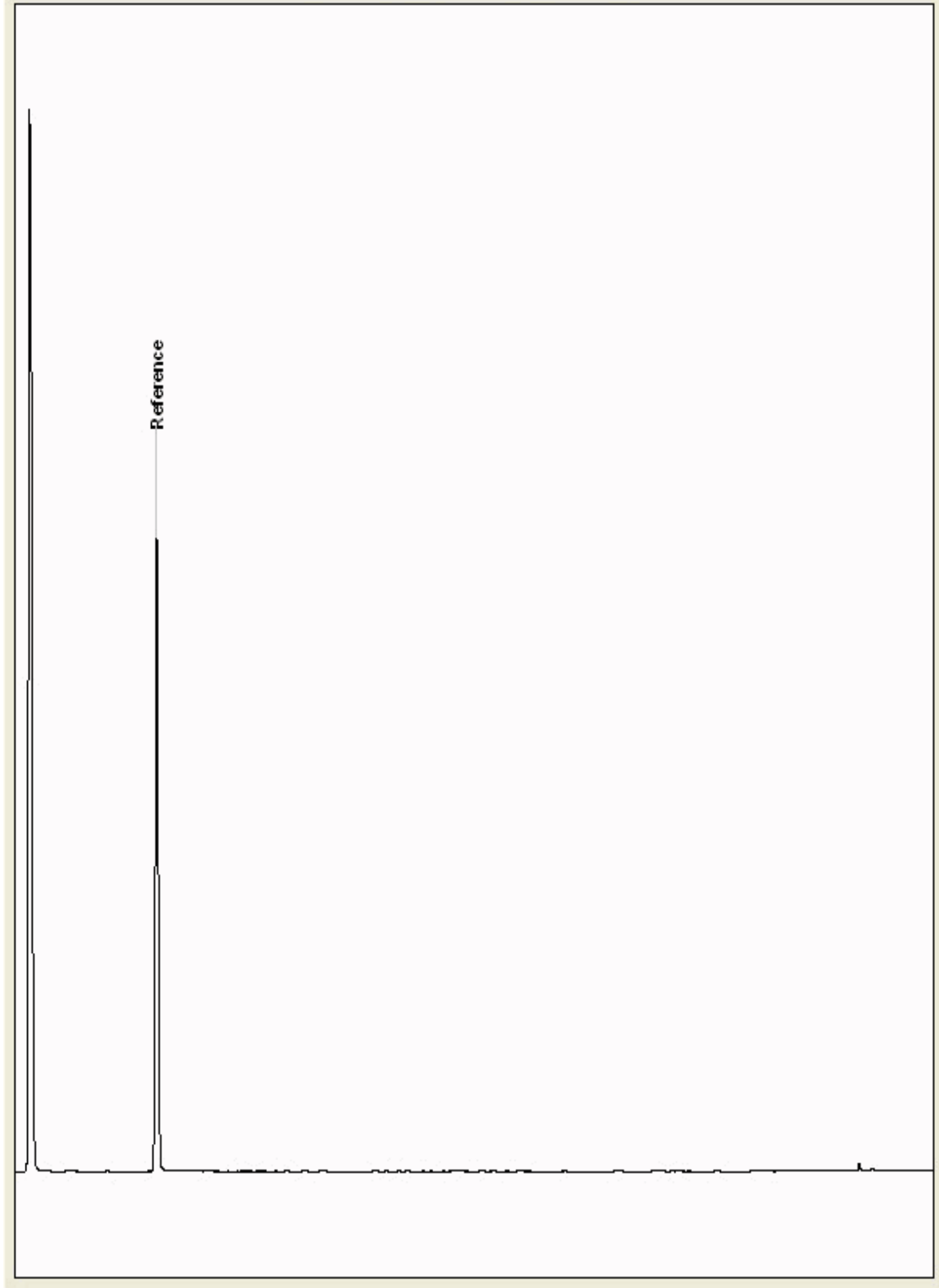
Chromatogram

Analysis: GRO by GC-FID (S)
19085511

Sample No :
Sample ID : BH212

19,085,511**Depth :** 6.00 - 7.00

19085511_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

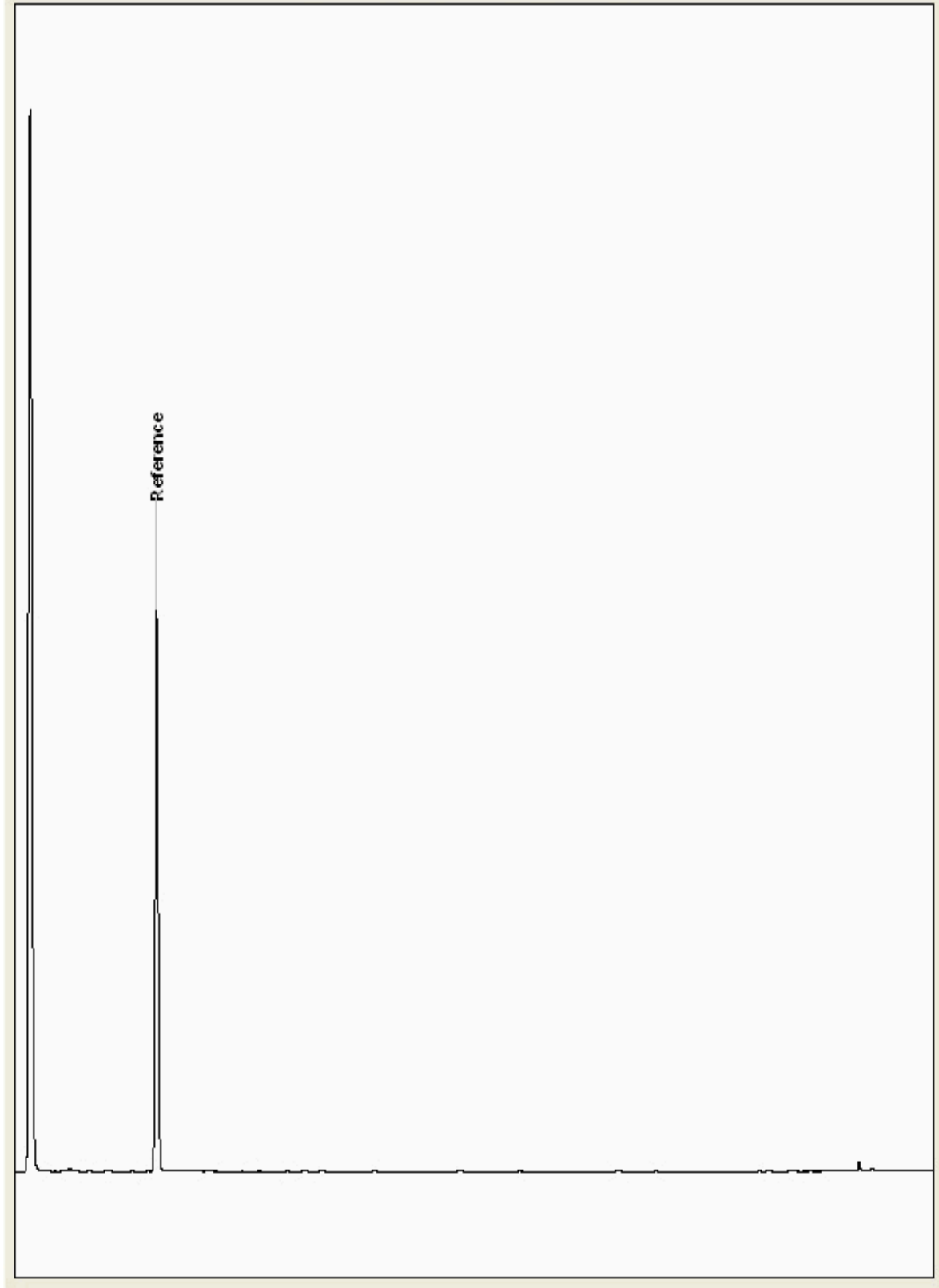
Chromatogram

Analysis: GRO by GC-FID (S)
19085518

Sample No :
Sample ID : BH211

19,085,518 Depth : 9.00 - 10.00

19085518_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

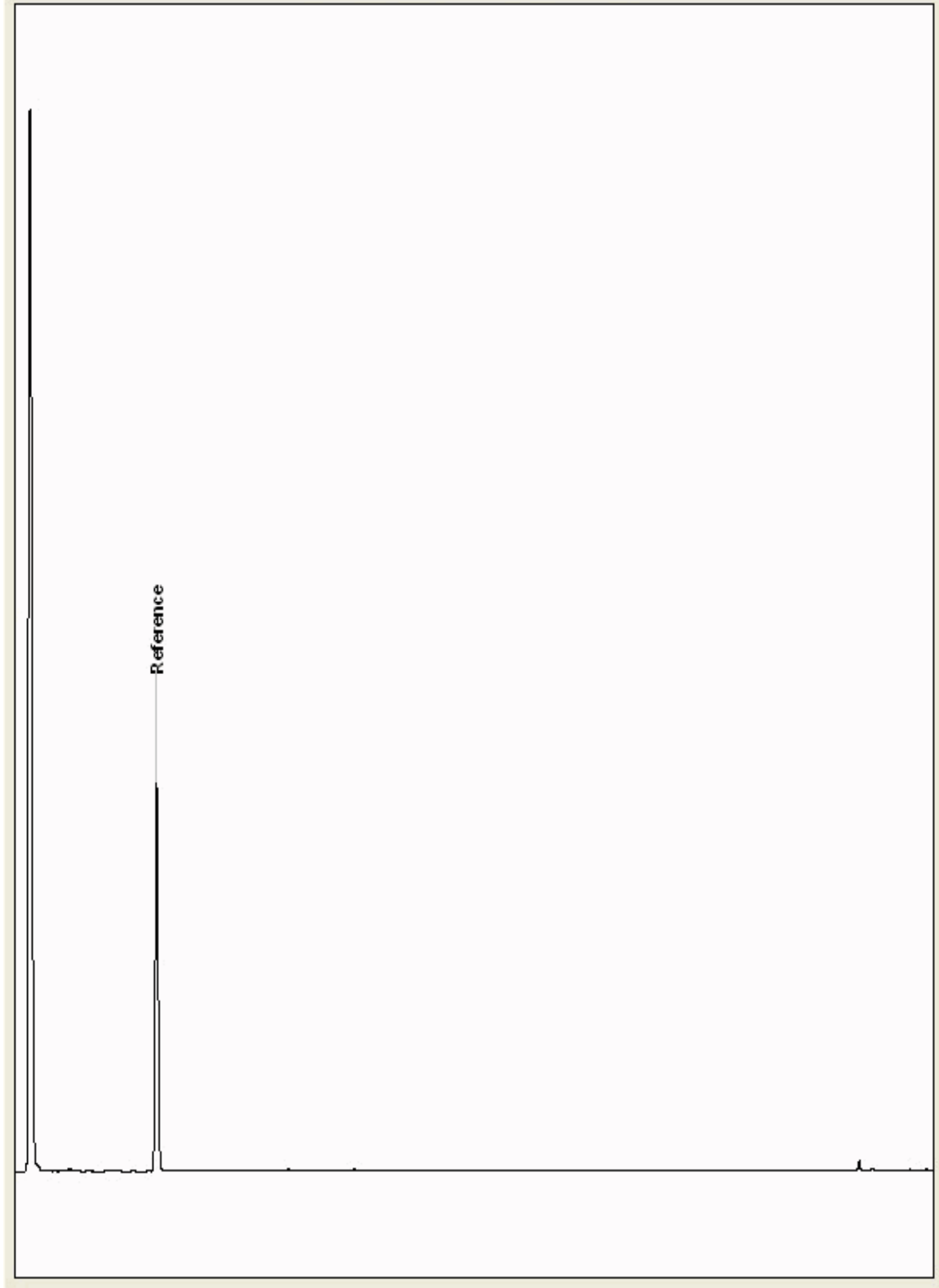
Chromatogram

Analysis: GRO by GC-FID (S)
19085645

Sample No :
Sample ID : BH213

19,085,645Depth :0.00 - 0.50

19085645_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

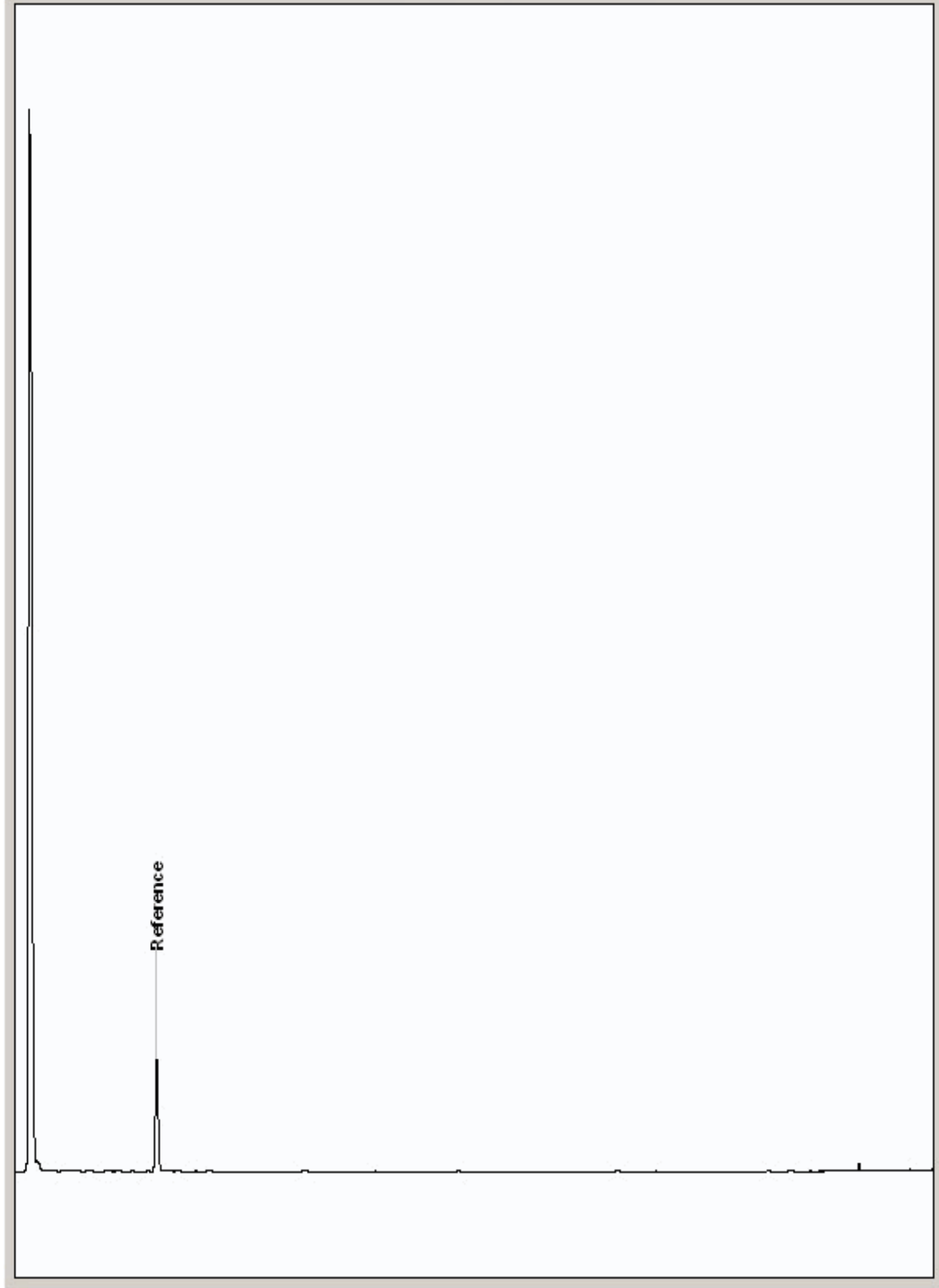
Chromatogram

Analysis: GRO by GC-FID (S)
19105666

Sample No :
Sample ID : BH212

19,105,666**Depth :** 15.00 - 16.00

19105666_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

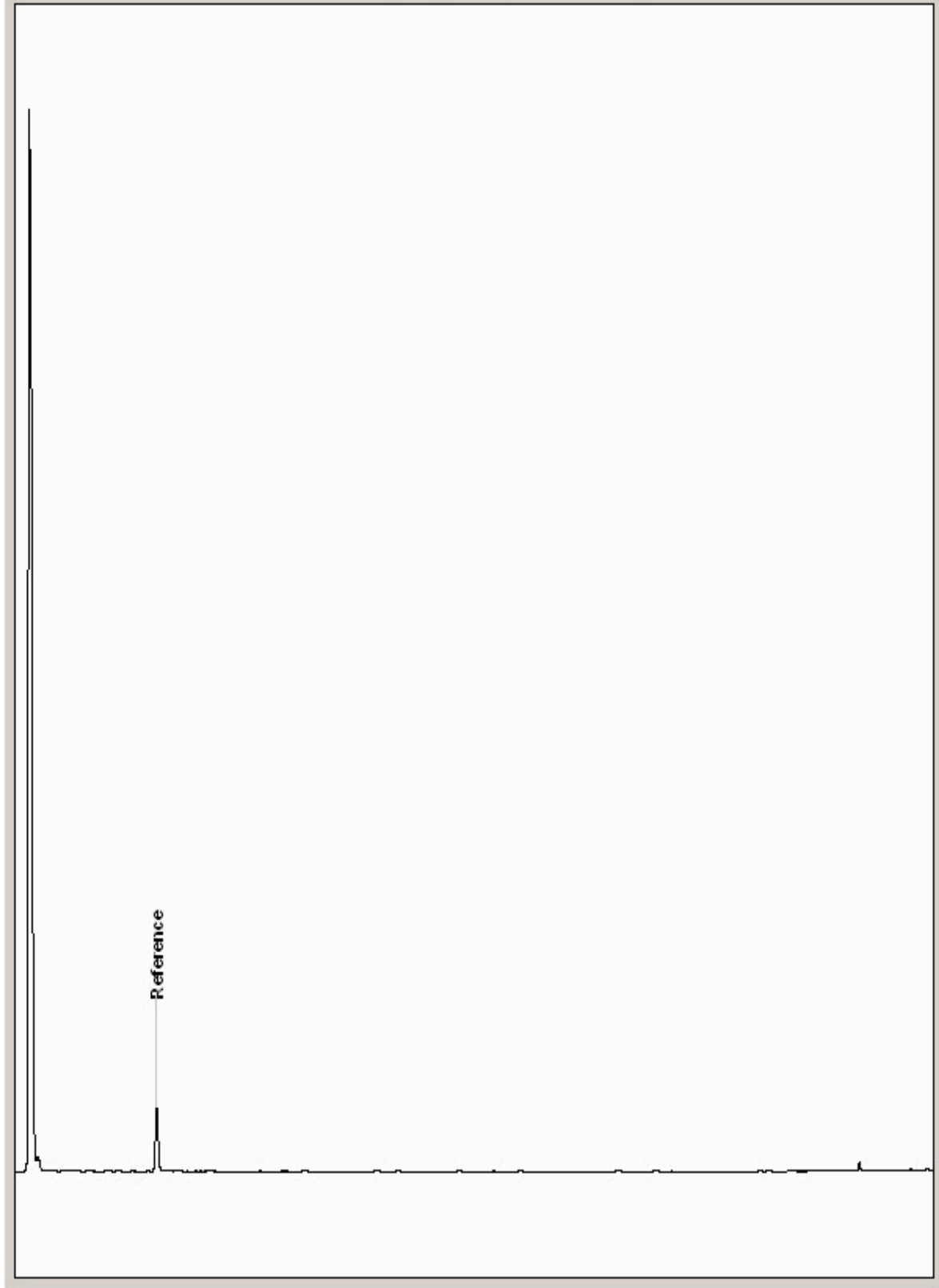
Chromatogram

Analysis: GRO by GC-FID (S)
19105670

Sample No :
Sample ID : BH211

19,105,670 **Depth :** 13.00 - 14.00

19105670_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

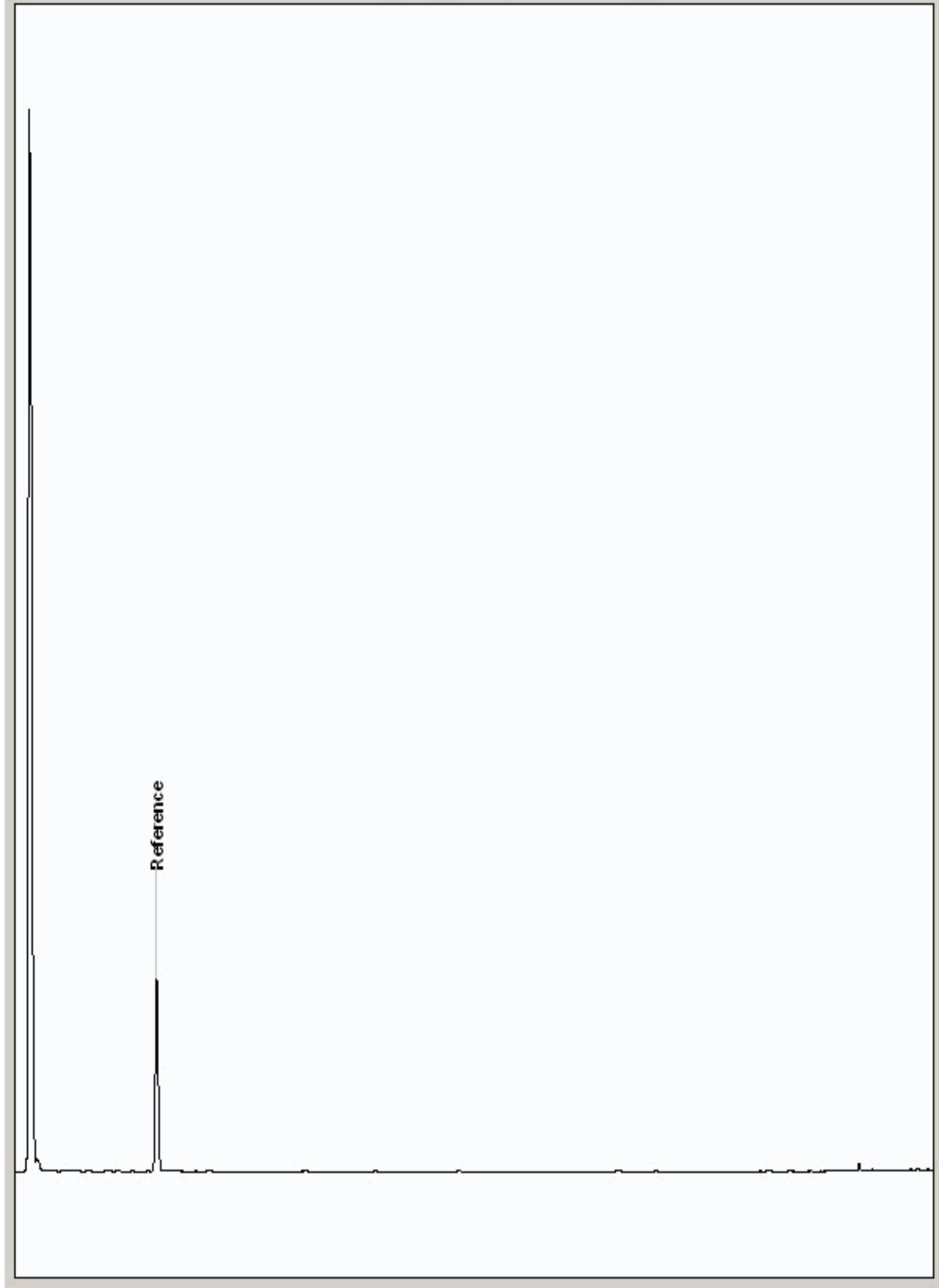
Chromatogram

Analysis: GRO by GC-FID (S)
19105674

Sample No :
Sample ID : BH213

19,105,674 **Depth :** 16.00 - 17.00

19105674_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

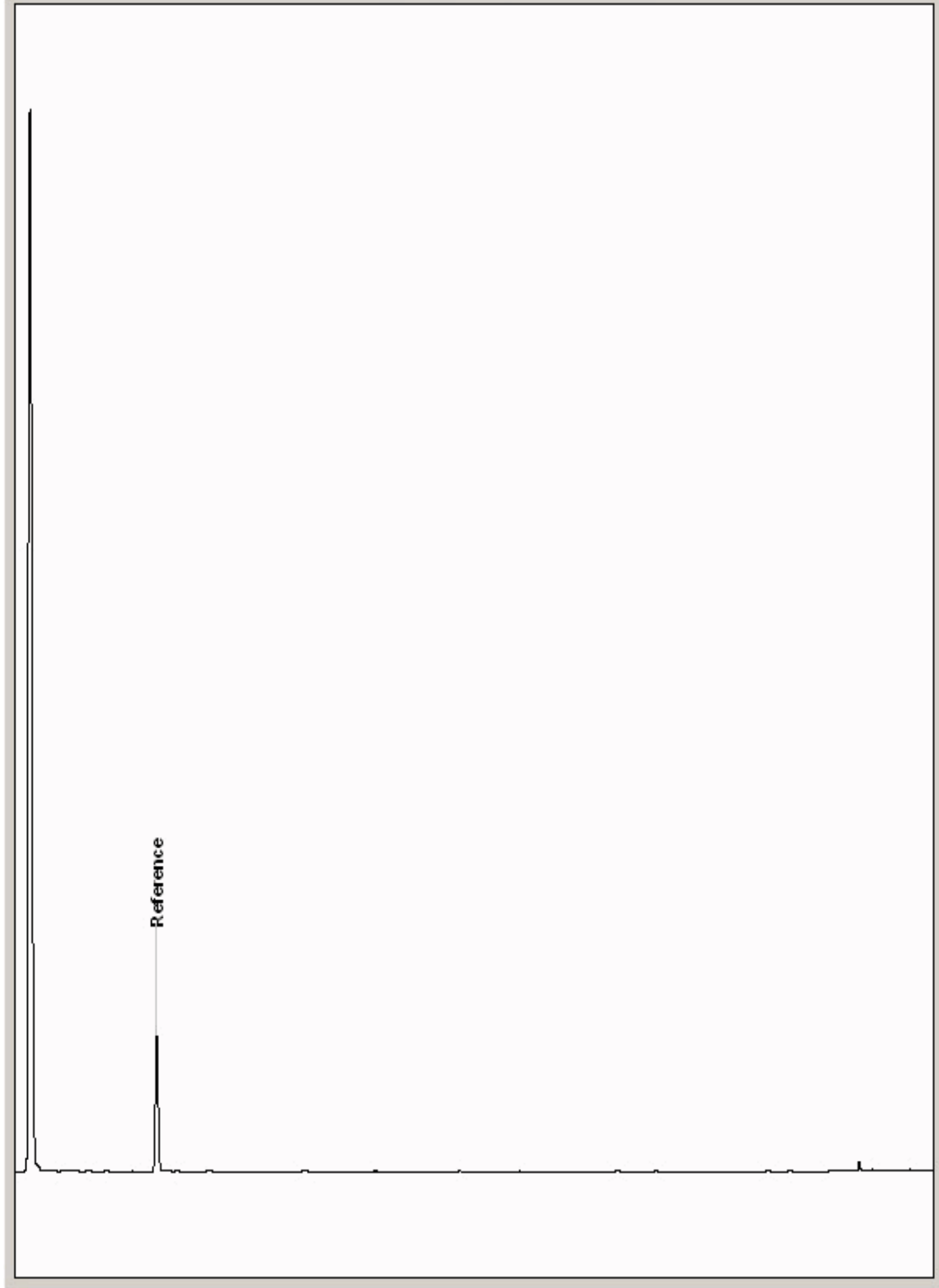
Chromatogram

Analysis: GRO by GC-FID (S)
19105686

Sample No :
Sample ID : BH212

19,105,686 **Depth :** 16.00 - 17.00

19105686_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

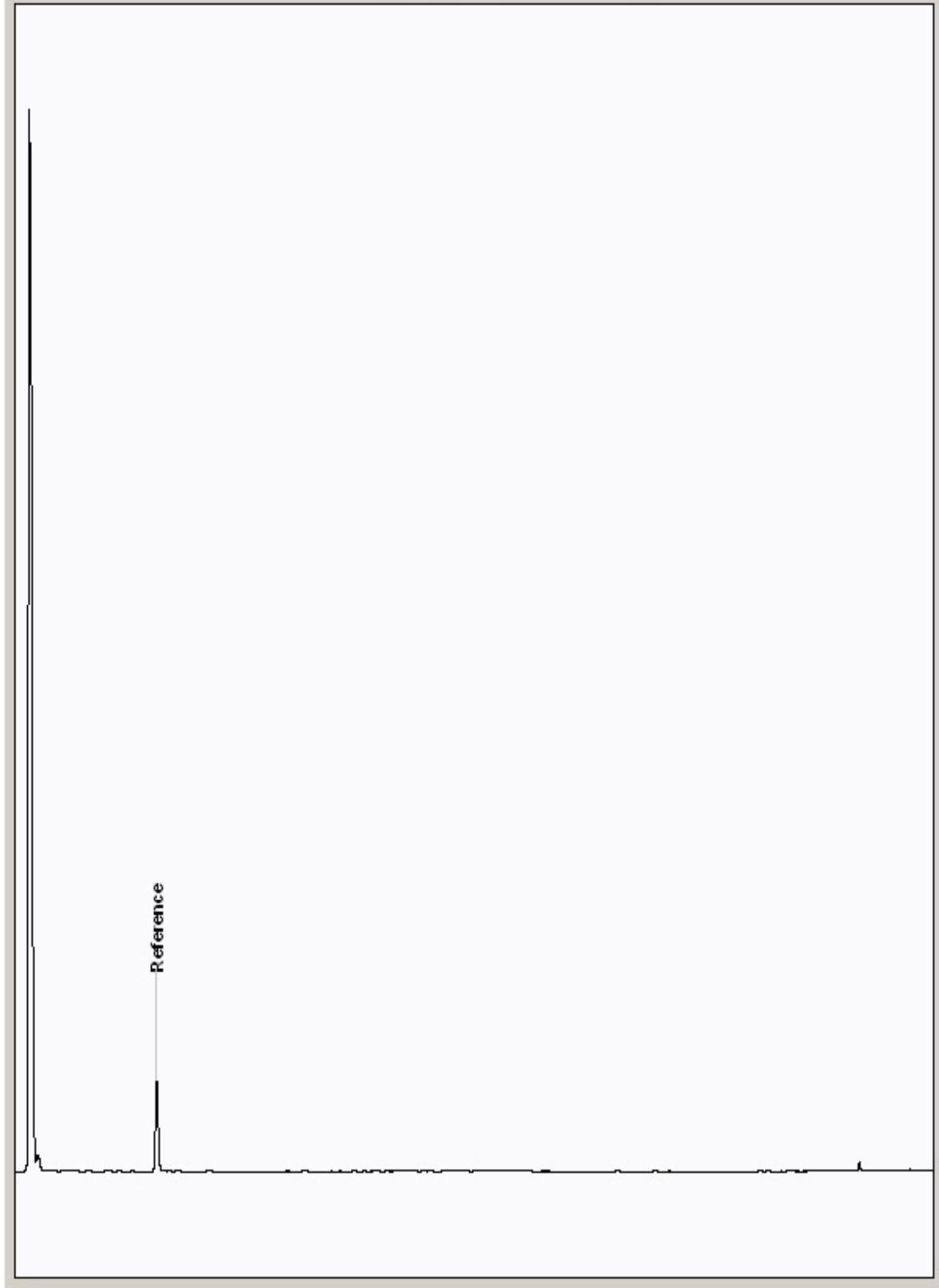
Chromatogram

Analysis: GRO by GC-FID (S)
19105691

Sample No :
Sample ID : BH211

19,105,691 **Depth :** 15.00 - 16.00

19105691_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

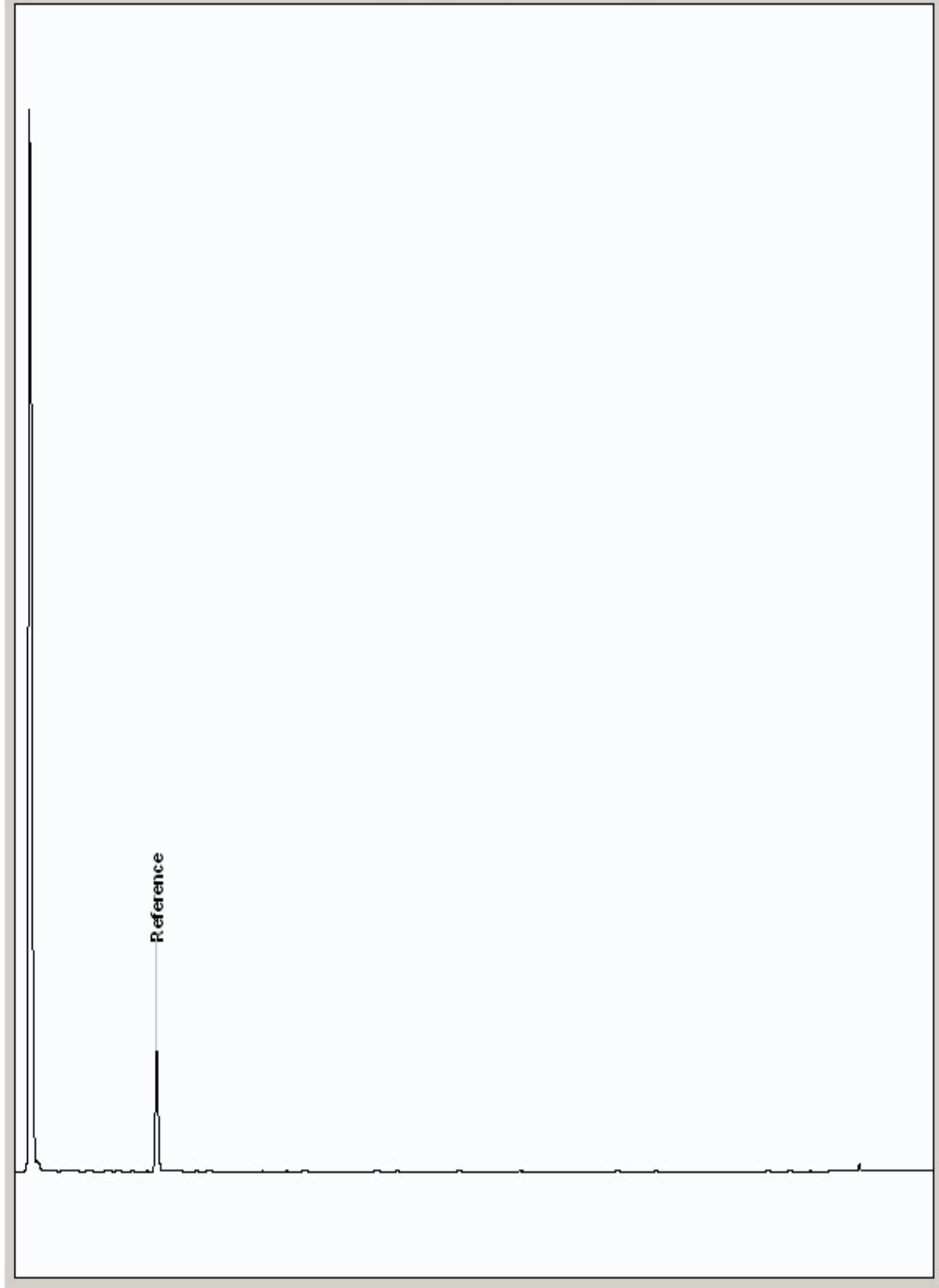
Chromatogram

Analysis: GRO by GC-FID (S)
19105693

Sample No :
Sample ID : BH213

19,105,693 **Depth :** 15.00 - 16.00

19105693_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

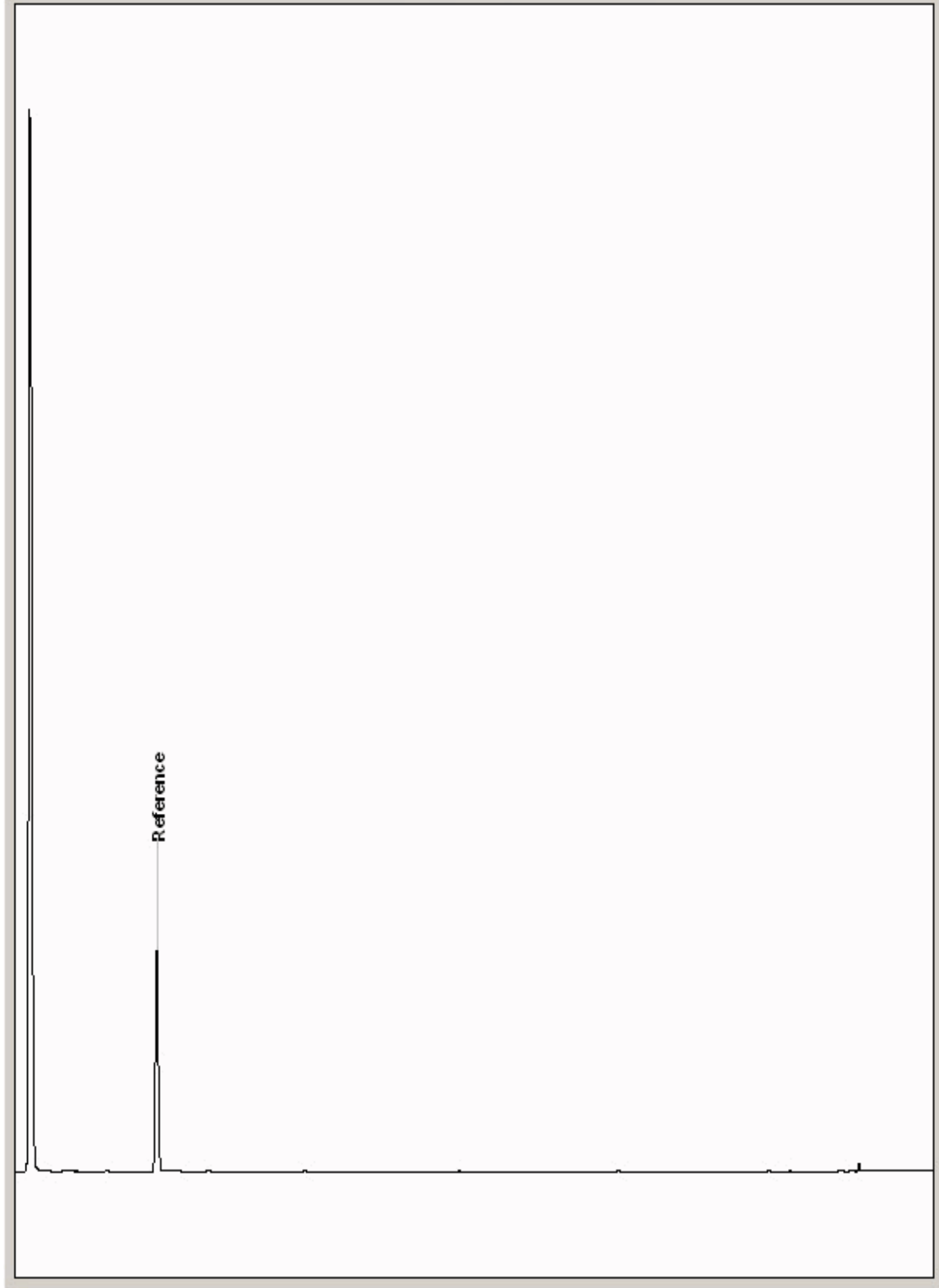
Chromatogram

Analysis: GRO by GC-FID (S)
19105696

Sample No :
Sample ID : BH212

19,105,696Depth : 13.00 - 14.00

19105696_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

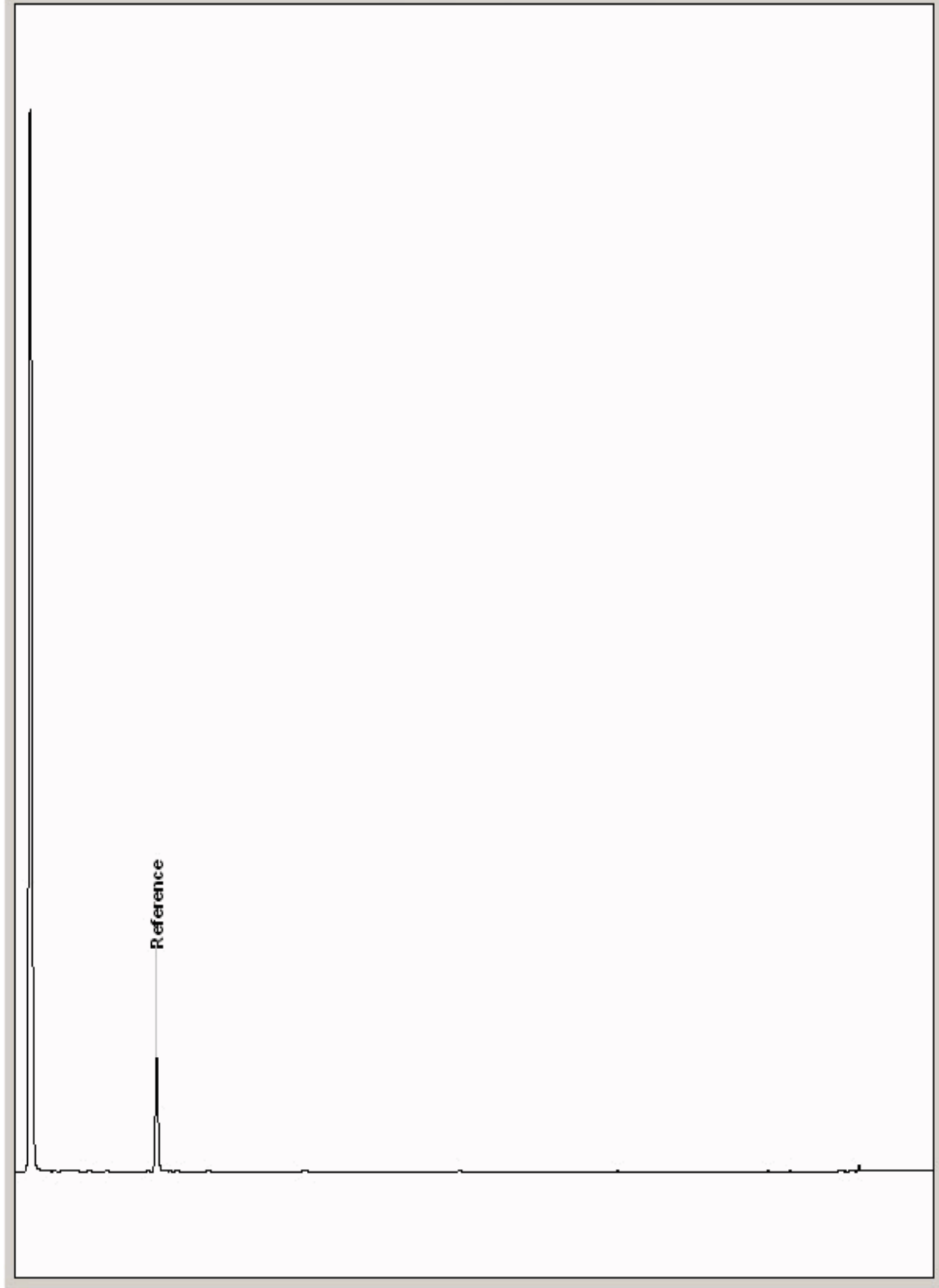
Chromatogram

Analysis: GRO by GC-FID (S)
19105793

Sample No :
Sample ID : BH211

19,105,793 **Depth :** 12.00 - 13.00

19105793_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

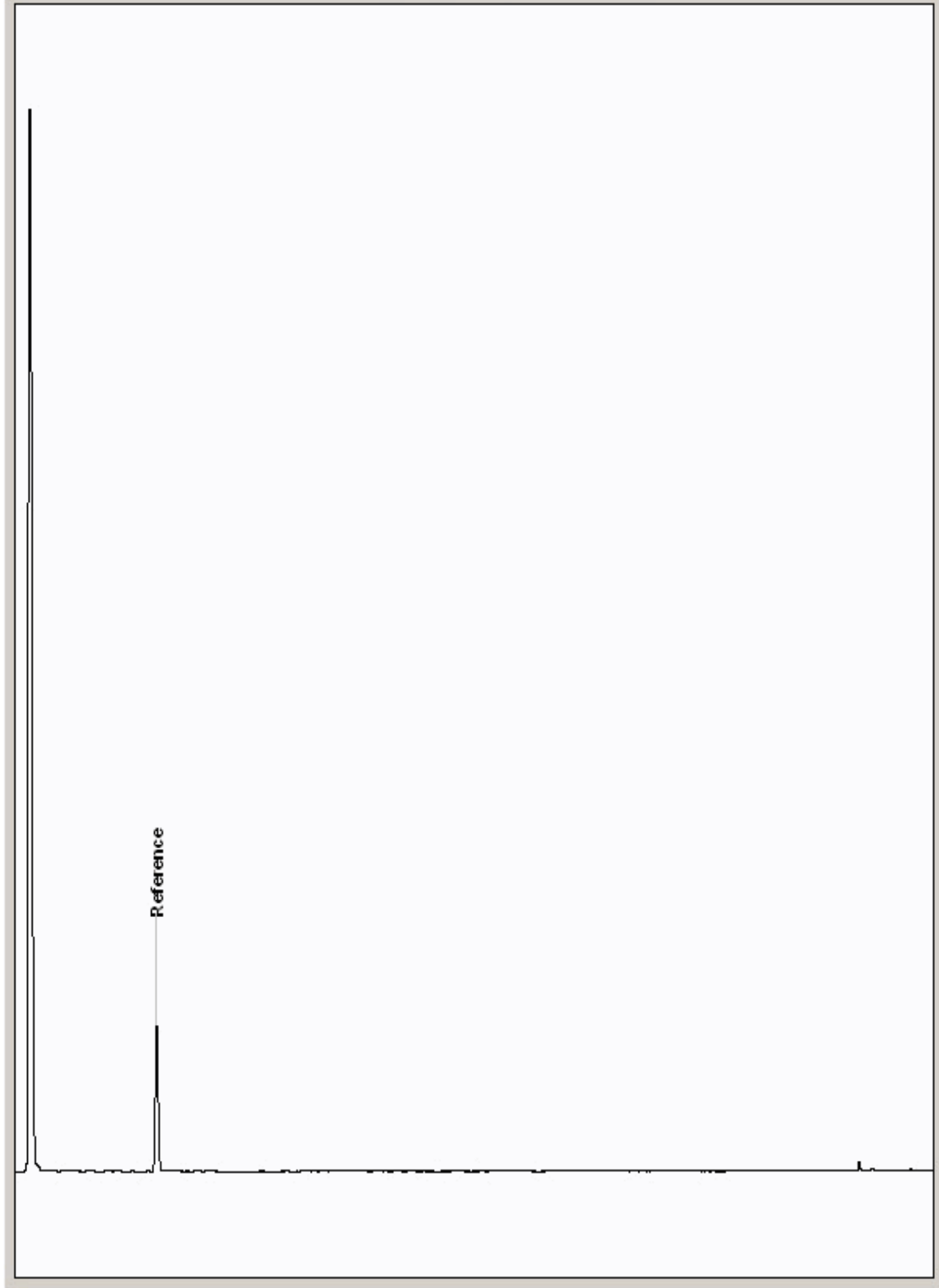
Chromatogram

Analysis: GRO by GC-FID (S)
19105797

Sample No :
Sample ID : BH213

19,105,797 **Depth :** 12.50 - 14.00

19105797_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

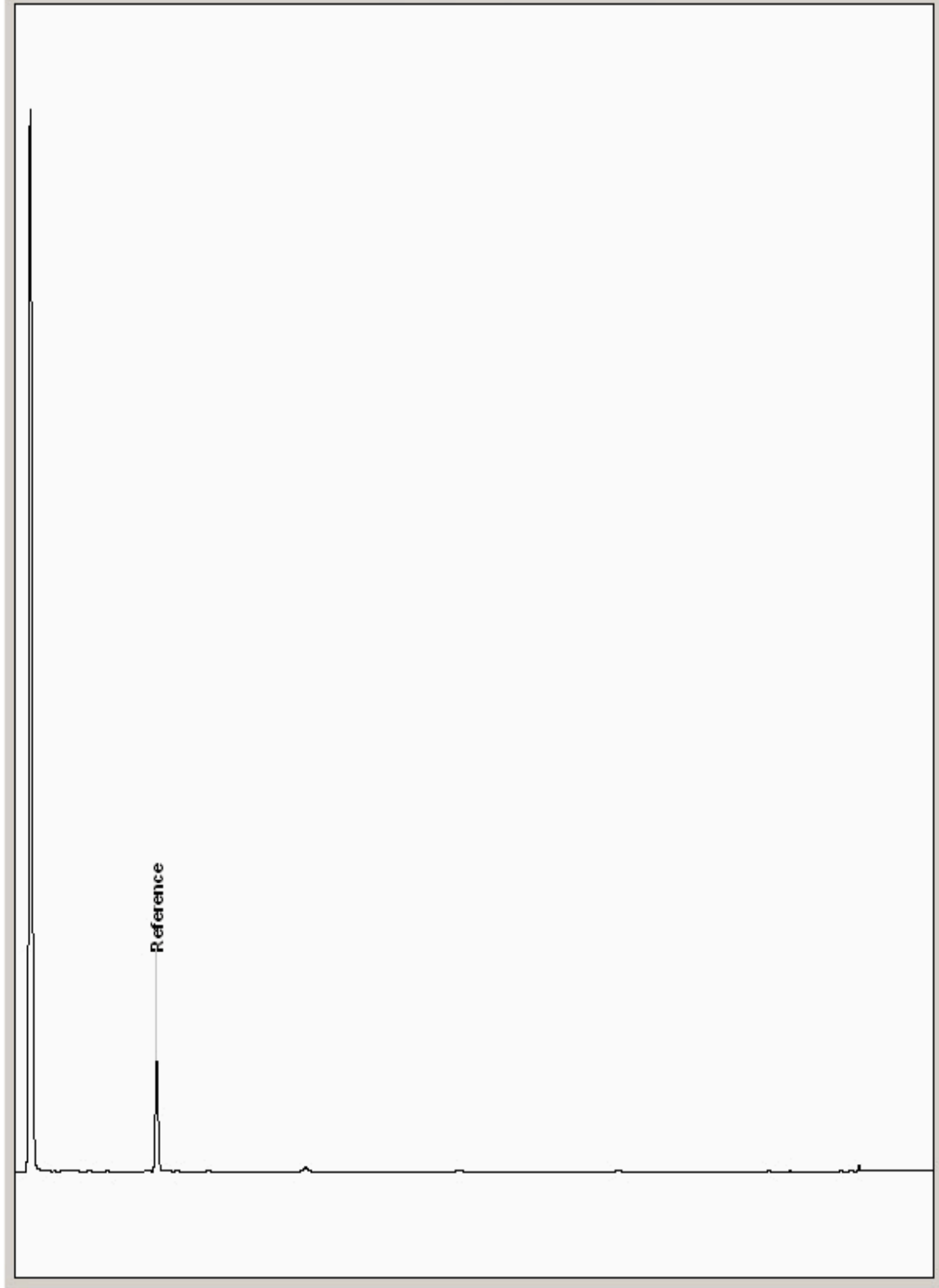
Chromatogram

Analysis: GRO by GC-FID (S)
19105800

Sample No :
Sample ID : BH212

19,105,800Depth : 14.00 - 15.00

19105800_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

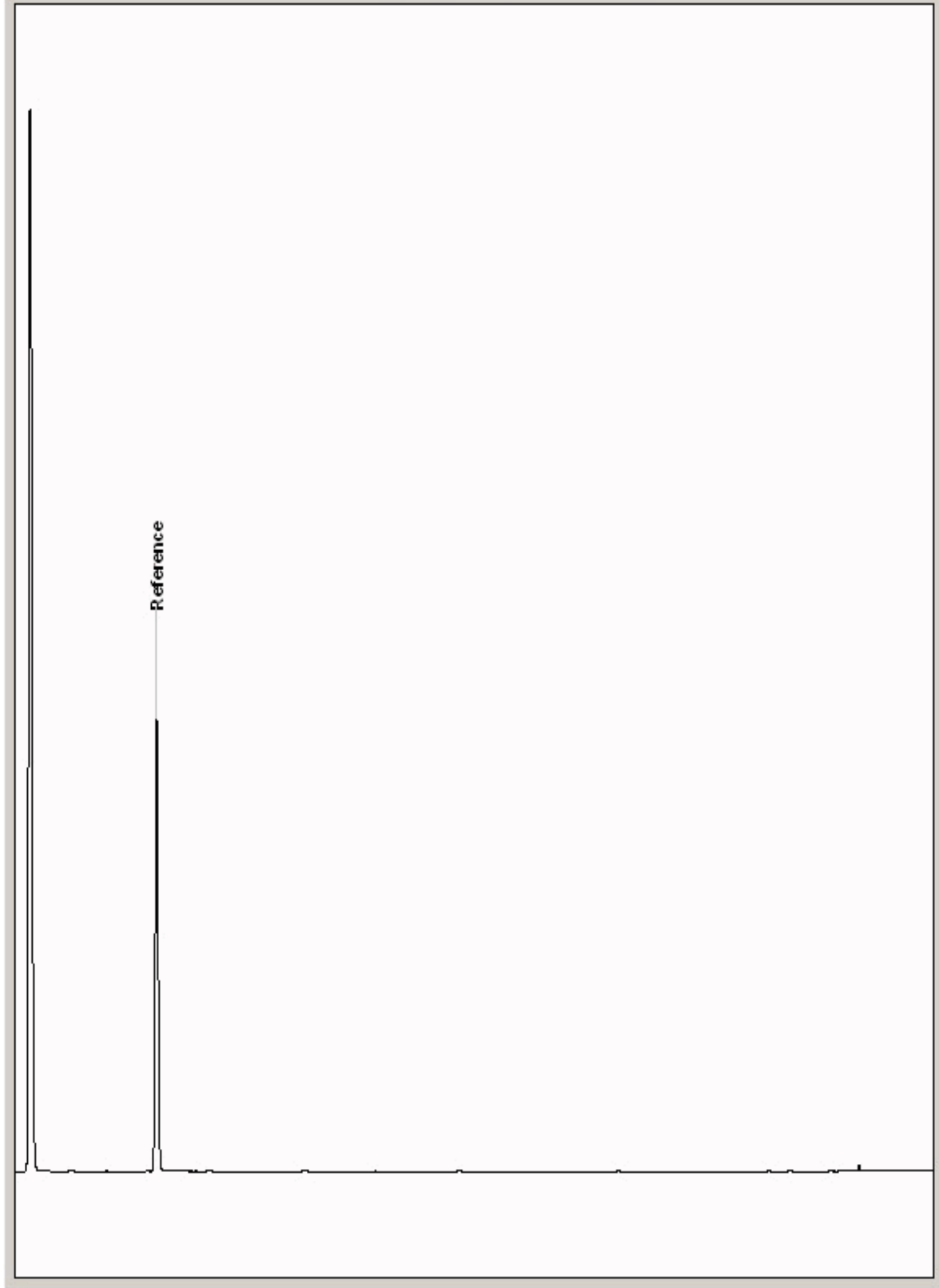
Chromatogram

Analysis: GRO by GC-FID (S)
19105802

Sample No :
Sample ID : BH213

19,105,802 **Depth :** 10.00 - 12.00

19105802_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

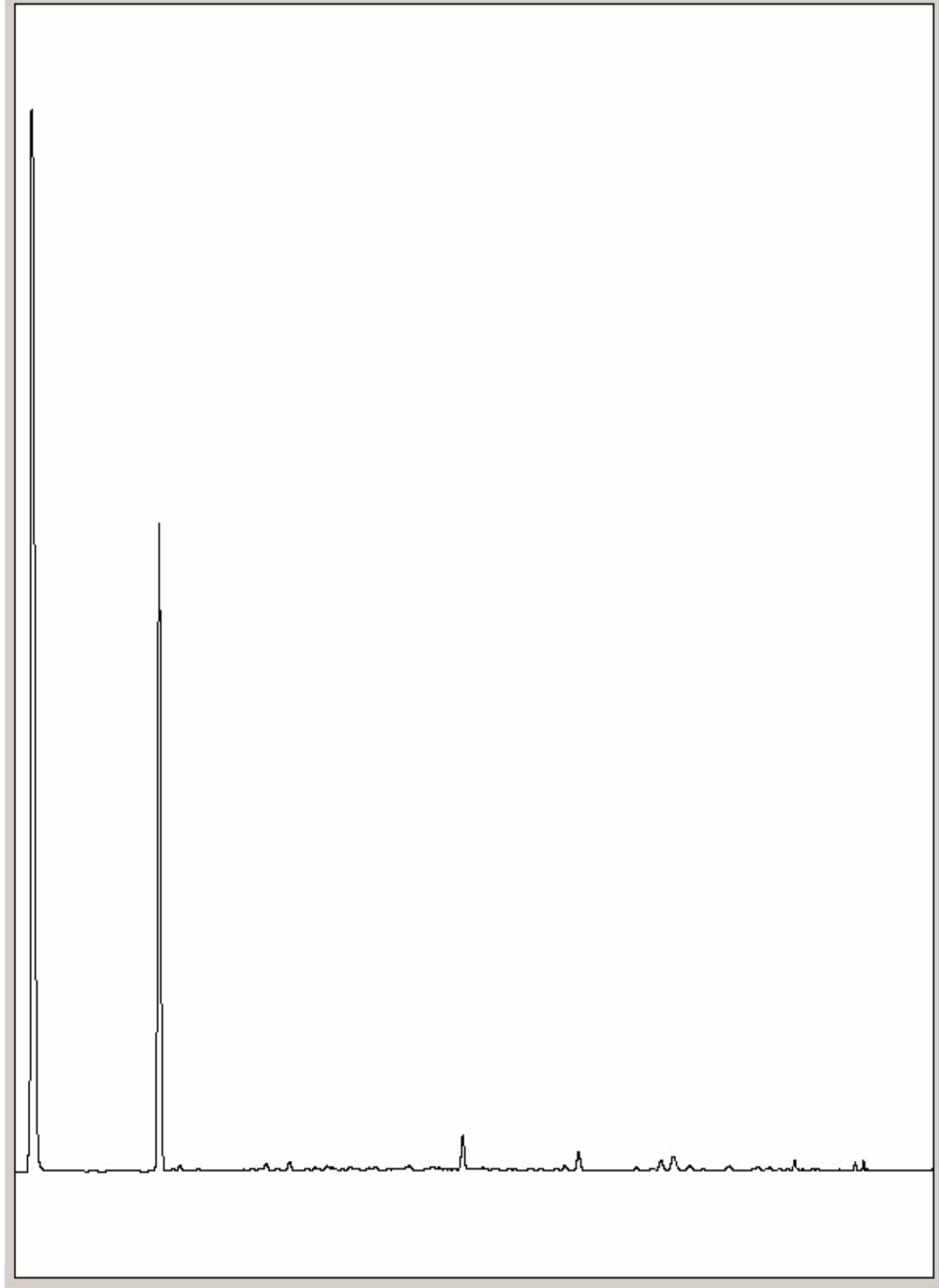
Chromatogram

Analysis: GRO by GC-FID (S)
19109155

Sample No :
Sample ID : BH213

19,109,155Depth :3.00 - 4.00

19109155_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

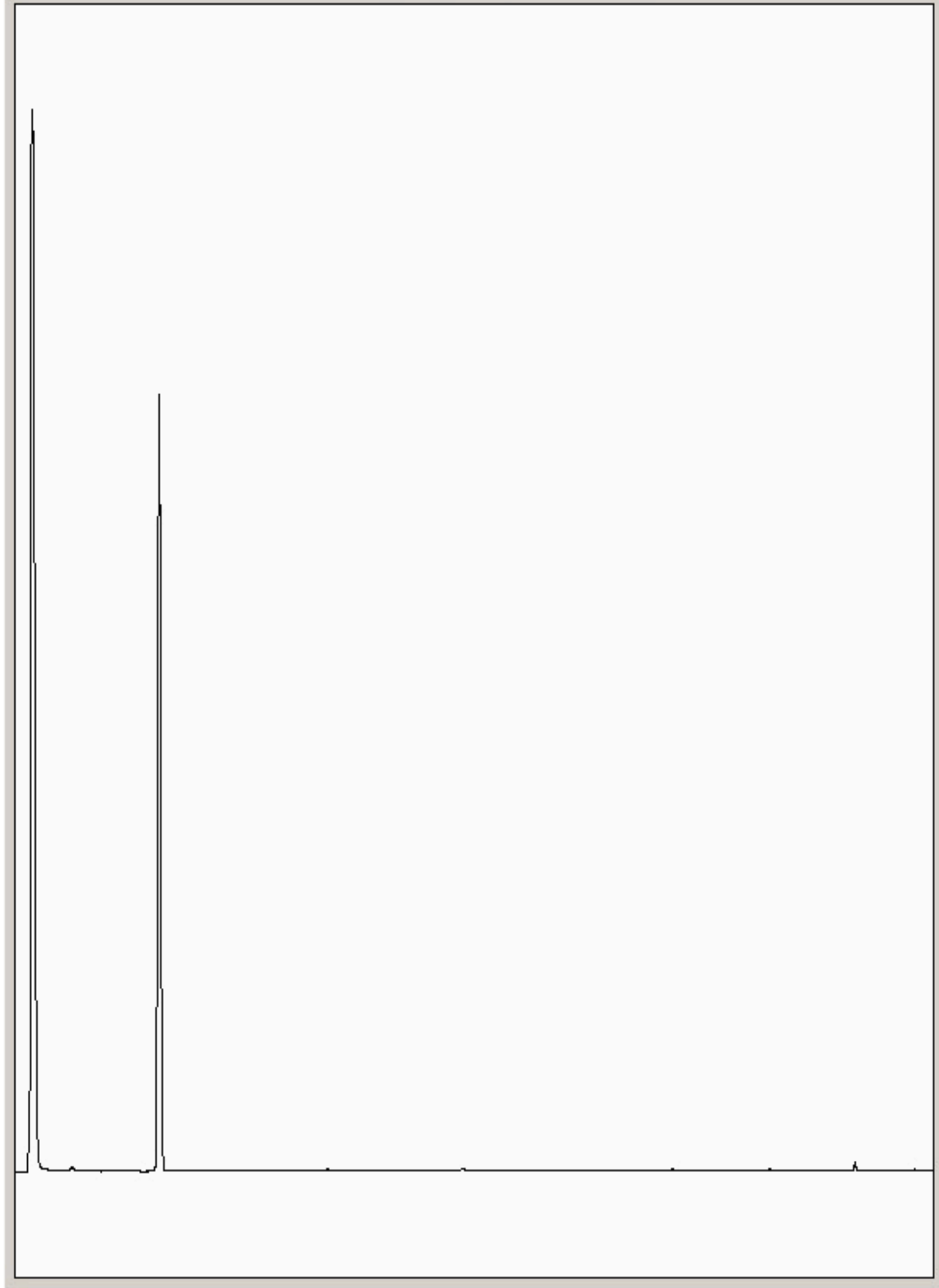
Chromatogram

Analysis: GRO by GC-FID (S)
19109166

Sample No :
Sample ID : BH211

19,109,166Depth :3.00 - 4.00

19109166_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

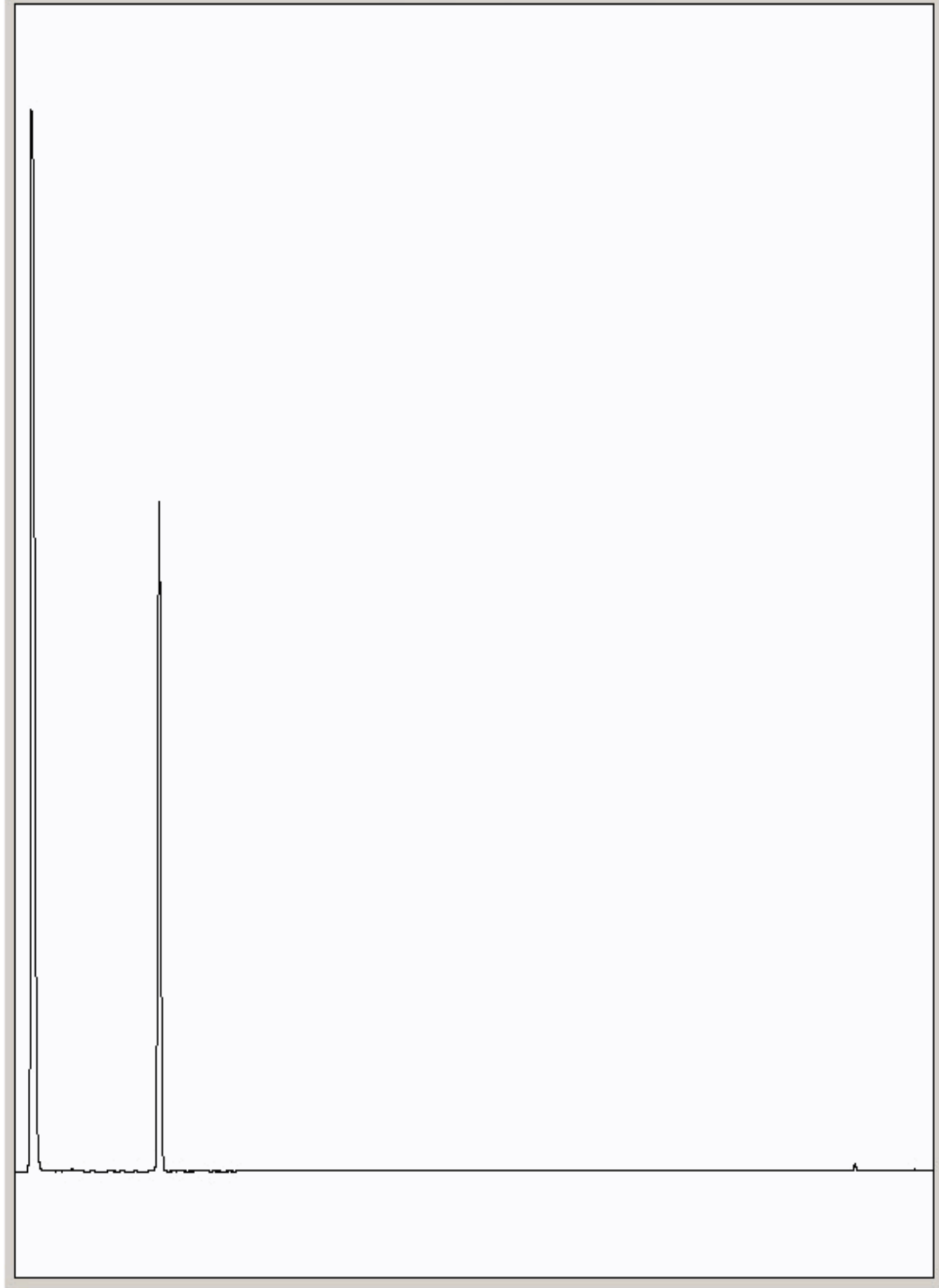
Chromatogram

Analysis: GRO by GC-FID (S)
19109192

Sample No :
Sample ID : BH212

19,109,192Depth :4.50 - 6.00

19109192_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

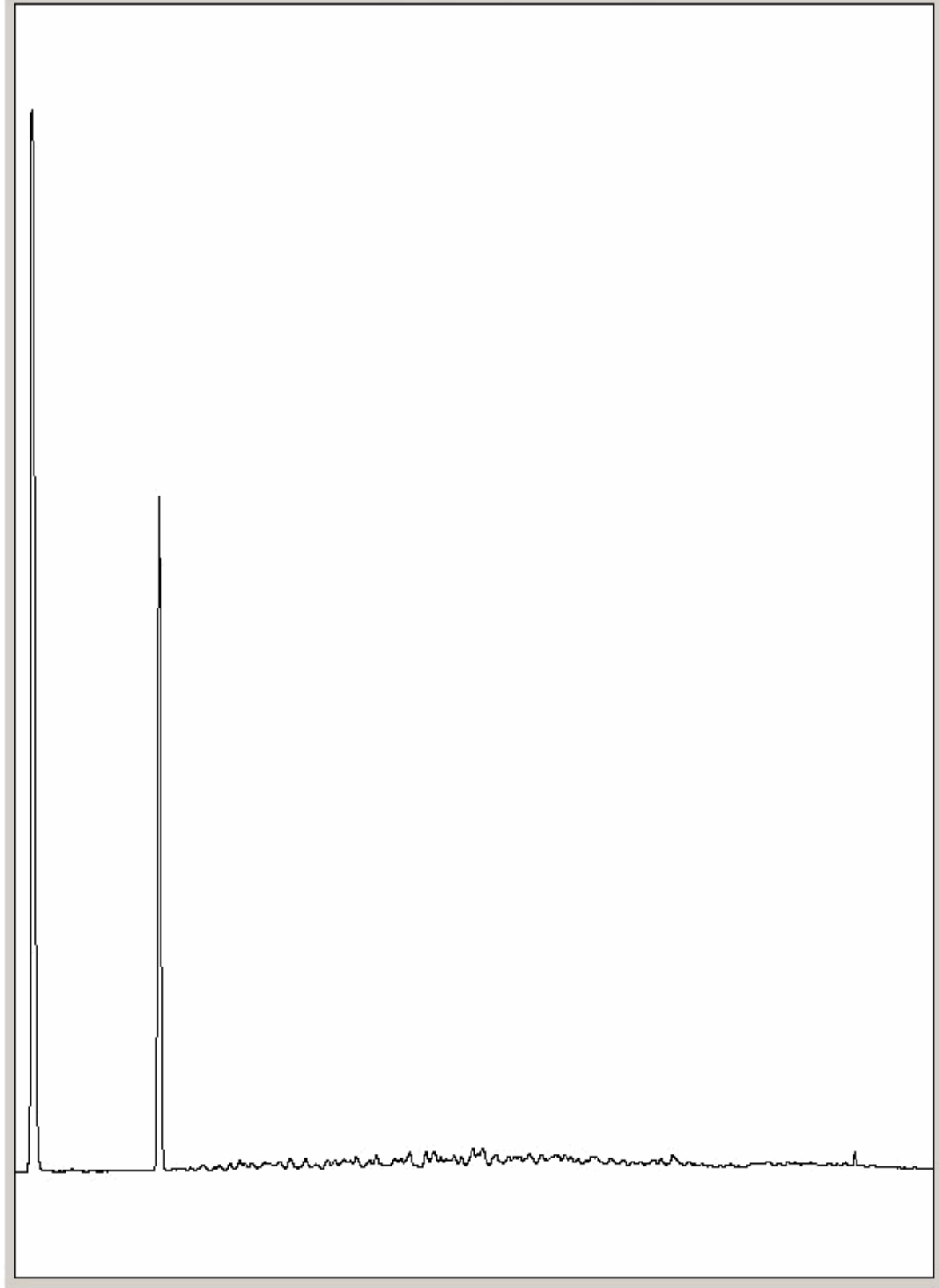
Chromatogram

Analysis: GRO by GC-FID (S)
19112522

Sample No :
Sample ID : BH212

19,112,522**Depth :** 1.00 - 2.00

19112522_GRO_S.DATA - HP6850 Signal 1





Post Certification Report

Customer : RSK Group Plc
Client Reference : 602387

Location : City Block 9

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: James Stretton

CERTIFICATE OF ANALYSIS

Date of report Generation: 15 January 2019
Customer: D_RSK_DUB
Sample Delivery Group (SDG): 181220-70
Your Reference: 602387
Location: City Block 9
Report No: 488549

This report has been revised and directly supersedes 488301 in its entirety.

We received 44 samples on Wednesday December 19, 2018 and 39 of these samples were scheduled for analysis which was completed on Tuesday January 15, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19011474	BH201		0.00 - 1.00	11/12/2018
19011475	BH201		1.00 - 2.00	11/12/2018
19011476	BH201		2.00 - 3.00	11/12/2018
19011477	BH201		3.00 - 4.00	11/12/2018
19011478	BH201		4.00 - 5.00	11/12/2018
19011479	BH201		5.00 - 6.00	11/12/2018
19011480	BH201		6.00 - 7.00	11/12/2018
19011481	BH201		7.00 - 8.00	11/12/2018
19011482	BH201		8.00 - 9.00	11/12/2018
19011483	BH202		0.00 - 0.50	11/12/2018
19011485	BH202		0.50 - 1.00	11/12/2018
19011486	BH202		1.50 - 2.00	11/12/2018
19011487	BH202		2.00 - 3.00	11/12/2018
19011488	BH202		3.00 - 4.00	11/12/2018
19011489	BH202		4.00 - 5.00	11/12/2018
19011490	BH202		5.00 - 5.50	11/12/2018
19011491	BH202		5.50 - 7.00	11/12/2018
19011492	BH202		7.00 - 8.00	11/12/2018
19012241	BH202		8.00 - 9.00	11/12/2018
19011493	BH203		0.00 - 1.00	12/12/2018
19011494	BH203		1.00 - 2.00	12/12/2018
19011496	BH203		2.00 - 3.00	12/12/2018
19011497	BH203		3.00 - 4.00	12/12/2018
19011499	BH203		4.00 - 5.00	12/12/2018
19011500	BH203		5.00 - 6.00	12/12/2018
19011501	BH203		6.00 - 7.00	12/12/2018
19011502	BH203		7.00 - 8.00	12/12/2018
19011503	BH204		10.00 - 11.00	12/12/2018
19011513	BH205		0.00 - 1.00	13/12/2018
19011514	BH205		1.00 - 1.50	13/12/2018
19011515	BH205		1.50 - 2.00	13/12/2018
19011516	BH205		2.00 - 3.00	13/12/2018
19011517	BH205		3.00 - 4.00	13/12/2018
19011518	BH205		4.00 - 5.00	13/12/2018
19011519	BH205		5.50 - 7.00	13/12/2018
19011520	BH205		8.00 - 10.00	13/12/2018
19011504	BH210		0.00 - 1.00	14/12/2018
19011505	BH210		1.00 - 2.00	14/12/2018
19011506	BH210		2.00 - 3.00	14/12/2018
19011508	BH210		3.00 - 4.00	14/12/2018
19011509	BH210		4.00 - 5.50	14/12/2018
19011510	BH210		6.00 - 7.00	14/12/2018
19011511	BH210		7.00 - 8.00	14/12/2018
19011512	BH210		8.00 - 10.00	14/12/2018

Maximum Sample/Coolbox Temperature (°C) : 8.2

ISO5667-3 Water quality - Sampling - Part3 -
During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container		Sample Type
				60g VOC (ALE215)	1kg TUB	
19011474	BH201		0.00 - 1.00	60g VOC (ALE215)	1kg TUB	S
19011475	BH201		1.00 - 2.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
19011476	BH201		2.00 - 3.00	250g Amber Jar (ALE210)	1kg TUB	S
19011477	BH201		3.00 - 4.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
19011478	BH201		4.00 - 5.00	60g VOC (ALE215)	1kg TUB	S
19011479	BH201		5.00 - 6.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
19011480	BH201		6.00 - 7.00	60g VOC (ALE215)	250g Amber Jar (ALE210)	S
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 38		X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 39		X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 38		X	X	X
CEN Readings	All	NDPs: 0 Tests: 39		X	X	X
Coronene	All	NDPs: 0 Tests: 38		X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 39		X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 39		X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 38		X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 38		X	X	X
Fluoride	All	NDPs: 0 Tests: 39		X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 38		X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 38		X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 37		X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 39		X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 38		X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">X Test</div> <div style="display: flex; align-items: center;">N No Determination Possible</div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type						
		19011474	BH201		0.00 - 1.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
		19011475	BH201		1.00 - 2.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
		19011476	BH201		2.00 - 3.00	250g Amber Jar (ALE210) 1kg TUB	S					
		19011477	BH201		3.00 - 4.00	250g Amber Jar (ALE210) 1kg TUB	S					
		19011478	BH201		4.00 - 5.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
		19011479	BH201		5.00 - 6.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S					
	19011480	BH201		6.00 - 7.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S						
Mineral Oil	All	NDPs: 0 Tests: 38					X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 38					X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 38					X	X	X	X	X	X
PCBs by GCMS	All	NDPs: 0 Tests: 38					X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 38					X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 38					X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 39					X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 39					X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 39					X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 38					X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 38					X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 38					X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

			Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type		
			19011515	19011516	19011517	19011518	19011519	19011520	19011504	19011505	BH205	BH205	BH205	BH210	BH210
			1.50 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.50 - 7.00	8.00 - 10.00	0.00 - 1.00	1.00 - 2.00	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)
			250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB	250g Amber Jar (ALE210)
			S	S	S	S	S	S	S	S	S	S	S	S	S
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 38	X	X	X	X	X	X	X	X					
Anions by Kone (w)	All	NDPs: 0 Tests: 39		X	X	X	X	X	X	X				X	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 38		X	X	X	X	X	X	X				X	
Asbestos Quantification - Full	All	NDPs: 0 Tests: 1											X		
CEN Readings	All	NDPs: 0 Tests: 39		X	X	X	X	X	X	X				X	
Coronene	All	NDPs: 0 Tests: 38	X	X	X	X	X	X	X	X			X		X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 39		X	X	X	X	X	X	X				X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 39		X	X	X	X	X	X	X				X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 38	X	X	X	X	X	X	X	X			X		X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 38	X	X	X	X	X	X	X	X			X		X
Fluoride	All	NDPs: 0 Tests: 39		X	X	X	X	X	X	X				X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 38		X	X	X	X	X	X	X			X		X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 38	X	X	X	X	X	X	X	X			X		X
Loss on Ignition in soils	All	NDPs: 0 Tests: 37	X	X	X	X	X	X	X	X			X		X
Mercury Dissolved	All	NDPs: 0 Tests: 39		X	X	X	X	X	X	X				X	



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type											
							19011515	19011516	19011517	19011518	19011519	19011520	19011504	19011505	19011515	19011516	19011517	19011518	19011519	19011520	19011504	19011505
Metals in solid samples by OES	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
Mineral Oil	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
PCBs by GCMS	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 39						X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 39					X	X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 39						X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 38					X	X	X	X	X	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
19011474	BH201	0.00 - 1.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011475	BH201	1.00 - 2.00	Dark Brown	Sandy Loam	Stones	Vegetation
19011476	BH201	2.00 - 3.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011477	BH201	3.00 - 4.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011478	BH201	4.00 - 5.00	Dark Brown	Loamy Sand	None	None
19011479	BH201	5.00 - 6.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011480	BH201	6.00 - 7.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011481	BH201	7.00 - 8.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011482	BH201	8.00 - 9.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011483	BH202	0.00 - 0.50	Dark Brown	Sandy Loam	Vegetation	Stones
19011485	BH202	0.50 - 1.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011487	BH202	2.00 - 3.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011488	BH202	3.00 - 4.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011489	BH202	4.00 - 5.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011490	BH202	5.00 - 5.50	Dark Brown	Sandy Loam	Stones	Vegetation
19011492	BH202	7.00 - 8.00	Dark Brown	Sandy Loam	Vegetation	Stones
19012241	BH202	8.00 - 9.00	Dark Brown	Sandy Loam	Stones	Vegetation
19011493	BH203	0.00 - 1.00	Dark Brown	Sandy Loam	Stones	Vegetation
19011494	BH203	1.00 - 2.00	Dark Brown	Sand	Vegetation	Stones
19011496	BH203	2.00 - 3.00	Dark Brown	Sandy Silt Loam	None	None
19011497	BH203	3.00 - 4.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011499	BH203	4.00 - 5.00	Dark Brown	Clay	Stones	Vegetation
19011500	BH203	5.00 - 6.00	Dark Brown	Sand	Stones	None
19011501	BH203	6.00 - 7.00	Dark Brown	Sandy Loam	Stones	Vegetation
19011502	BH203	7.00 - 8.00	Dark Brown	Stone/Soil	Stones	None
19011513	BH205	0.00 - 1.00	Dark Brown	Sandy Loam	Stones	None
19011514	BH205	1.00 - 1.50	Dark Brown	Silt Loam	Stones	None
19011515	BH205	1.50 - 2.00	Dark Brown	Silty Clay Loam	Stones	None
19011516	BH205	2.00 - 3.00	Dark Brown	Silt Loam	None	None
19011517	BH205	3.00 - 4.00	Dark Brown	Silty Clay Loam	Stones	Vegetation
19011518	BH205	4.00 - 5.00	Dark Brown	Loamy Sand	Stones	None
19011519	BH205	5.50 - 7.00	Dark Brown	Sand	Stones	None
19011520	BH205	8.00 - 10.00	Dark Brown	Sand	Stones	None
19011504	BH210	0.00 - 1.00	Dark Brown	Sandy Loam	Vegetation	Stones
19011505	BH210	1.00 - 2.00	Dark Brown	Sandy Loam	Stones	Vegetation
19011506	BH210	2.00 - 3.00	Light Brown	Loamy Sand	Stones	Vegetation
19011508	BH210	3.00 - 4.00	Dark Brown	Sandy Loam	Stones	Vegetation
19011509	BH210	4.00 - 5.50	Dark Brown	Sandy Loam	Vegetation	Stones



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549
Location: City Block 9	Order Number: P2021550	Superseded Report: 488301

			Colour	Description	Inclusions	Inclusions 2
19011512	BH210	8.00 - 10.00	Dark Brown	Sand	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Results Legend		Customer Sample Ref.	BH201	BH201	BH201	BH201	BH201	BH201
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	16	25	27	26	25	17
Loss on ignition	<0.7 %	TM018	3.7	5.48		5.81	8.16	2.53
Mineral Oil Surrogate % recovery**	%	TM061	82.2	77		75.2	86.1	77.8
Mineral oil >C10-C40	<1 mg/kg	TM061	9.23	<1		19.7	127	15.1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01		<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01		<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015		<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01		<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015		<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06		<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.845	1.47		3.46	4.02	2.01
pH	1 pH Units	TM133	8.06	7.22		8.11	8.02	7.41
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6		<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3		<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3		<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3		<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3		<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3		<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3		<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3		<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21		<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11.3	7.99		11	11.7	8.73
Cadmium	<0.02 mg/kg	TM181	0.748	0.431		0.639	0.839	0.546
Chromium	<0.9 mg/kg	TM181	9.09	11.4		11.9	12.4	7.57
Copper	<1.4 mg/kg	TM181	40.8	30.2		51.1	54.9	23.7
Lead	<0.7 mg/kg	TM181	82.8	47.6		97.9	97.5	51.4
Mercury	<0.14 mg/kg	TM181	0.21	0.43		0.692	0.611	0.272
Nickel	<0.2 mg/kg	TM181	15.4	16.9		21	21	14.4
Selenium	<1 mg/kg	TM181	<1	<1		<1	<1	<1
Zinc	<1.9 mg/kg	TM181	161	57.4		76	91.1	50.7
ANC @ pH 4	<0.03 mol/kg	TM182	0.287	0.331		0.415	0.204	0.0689
ANC @ pH 6	<0.03 mol/kg	TM182	0.0643	0.0417		0.1	0.0674	0.0398



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Results Legend		Customer Sample Ref.	BH201	BH201	BH201	BH202	BH202	BH202
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-5&*\$@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	6.00 - 7.00 Soil/Solid (S) 11/12/2018	7.00 - 8.00 Soil/Solid (S) 11/12/2018	8.00 - 9.00 Soil/Solid (S) 11/12/2018	0.00 - 0.50 Soil/Solid (S) 11/12/2018	0.50 - 1.00 Soil/Solid (S) 11/12/2018	2.00 - 3.00 Soil/Solid (S) 11/12/2018
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	21	6.5	6.8	18	22	23
Loss on ignition	<0.7 %	TM018	2.66	8.42	<0.7	6.27	4.87	4.3
Mineral Oil Surrogate % recovery**	%	TM061	77.1	77.8	74.7	77	78.7	84.7
Mineral oil >C10-C40	<1 mg/kg	TM061	46.1	<1	<1	11.6	2.11	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	1.69	3.31	0.305	2.7	1.72	2.26
pH	1 pH Units	TM133	7.8	8.46	8.77	7.67	7.91	7.75
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	6.94	5.97	5.99	16.4	10.4	8.94
Cadmium	<0.02 mg/kg	TM181	0.287	0.618	1.04	4.94	0.871	0.549
Chromium	<0.9 mg/kg	TM181	7.89	5.35	5.58	3.91	9.09	9.44
Copper	<1.4 mg/kg	TM181	25.5	12.2	9.43	154	31	26.1
Lead	<0.7 mg/kg	TM181	37.4	15.4	10.6	205	62.7	43
Mercury	<0.14 mg/kg	TM181	0.15	<0.14	<0.14	<0.14	0.51	0.296
Nickel	<0.2 mg/kg	TM181	14.7	16.2	15.9	21.9	15.8	16.9
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	49.6	67.2	54.6	1140	252	55.8
ANC @ pH 4	<0.03 mol/kg	TM182	0.0946	0.196	0.221	0.18	0.206	0.27
ANC @ pH 6	<0.03 mol/kg	TM182	0.0451	0.0787	0.0831	0.0514	0.0393	0.0766



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Results Legend		Customer Sample Ref.	BH202	BH202	BH202	BH202	BH202	BH203
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	3.00 - 4.00	4.00 - 5.00	5.00 - 5.50	7.00 - 8.00	8.00 - 9.00	0.00 - 1.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfilt	Total / unfiltered sample.	Date Sampled	11/12/2018	11/12/2018	11/12/2018	11/12/2018	11/12/2018	12/12/2018
-	Subcontracted test.	Date Received	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	SDG Ref	181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
(F)	Trigger breach confirmed	Lab Sample No.(s)	19011488	19011489	19011490	19011492	19012241	19011493
1-5&*\$@	Sample deviation (see appendix)	AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	26	25	9.9	13	7	19
Loss on ignition	<0.7 %	TM018	9.15	7.74	0.869	1.35	<0.7	3.32
Mineral Oil Surrogate % recovery**	%	TM061	77.2	83.6	82.9	79.9	85.4	80.9
Mineral oil >C10-C40	<1 mg/kg	TM061	1.09	25.1	22.1	13.5	<1	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.45	2.56	0.518	0.757	0.684	0.369
pH	1 pH Units	TM133	7.84	7.86	8.49	8.12	9.4	7.83
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	12.8	13.4	6.21	8.25	5.59	9.38
Cadmium	<0.02 mg/kg	TM181	0.788	0.8	0.527	0.451	1.25	0.856
Chromium	<0.9 mg/kg	TM181	12.7	13.2	4.16	5.95	3.68	9.52
Copper	<1.4 mg/kg	TM181	40.7	50.4	9.56	14.5	10	47.9
Lead	<0.7 mg/kg	TM181	100	114	12.9	29.8	6.37	94.3
Mercury	<0.14 mg/kg	TM181	0.595	0.88	<0.14	<0.14	<0.14	0.332
Nickel	<0.2 mg/kg	TM181	22.6	24.9	12.4	14.4	16.2	16.1
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	78.1	87.9	35	42.7	46	192
ANC @ pH 4	<0.03 mol/kg	TM182	0.284	0.228	0.44	0.369	0.162	0.23
ANC @ pH 6	<0.03 mol/kg	TM182	0.0849	0.0876	0.119	0.091	0.0836	<0.03



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Results Legend		Customer Sample Ref.	BH203	BH203	BH203	BH203	BH203	BH203
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
diss.filt	Dissolved / filtered sample.		12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed		19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
1-5&*\$@	Sample deviation (see appendix)		181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
			19011494	19011496	19011497	19011499	19011500	19011501
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	15	26	27	25	8.7	8.1
Loss on ignition	<0.7 %	TM018	0.991	4.61	5.22	6.66		0.972
Mineral Oil Surrogate % recovery**	%	TM061	78.3	78	78.5	85.1	85.6	78.4
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	7.49	<1	<1	<1	22.2
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.971	1.75	5.08	1.18	2.01	1.81
pH	1 pH Units	TM133	8.12	7.73	7.94	8.34	8.61	8.22
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	13.3	7.23	11.7	13.3	4.97	6.76
Cadmium	<0.02 mg/kg	TM181	0.207	0.524	0.748	0.755	0.358	0.394
Chromium	<0.9 mg/kg	TM181	5.12	11	13.1	11.8	6.15	6.23
Copper	<1.4 mg/kg	TM181	6.78	23.6	64.1	45.9	7.76	14.2
Lead	<0.7 mg/kg	TM181	14	37.4	67.8	98.5	16.3	24.7
Mercury	<0.14 mg/kg	TM181	<0.14	0.151	0.335	0.676	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	8.68	16.8	21.4	21.2	8.07	12.7
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	35	60.6	76.3	77.1	24.7	39.7
ANC @ pH 4	<0.03 mol/kg	TM182	0.0814	0.422	0.425	0.22	0.0914	0.345
ANC @ pH 6	<0.03 mol/kg	TM182	0.0461	0.0384	0.0841	0.0607	0.0558	0.0933



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Results Legend		Customer Sample Ref.	BH203	BH205	BH205	BH205	BH205	BH205
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	7.00 - 8.00	0.00 - 1.00	1.00 - 1.50	1.50 - 2.00	2.00 - 3.00	3.00 - 4.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfilt	Total / unfiltered sample.	Date Sampled	12/12/2018	13/12/2018	13/12/2018	13/12/2018	13/12/2018	13/12/2018
-	Subcontracted test.	Date Received	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	SDG Ref	181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
(F)	Trigger breach confirmed	Lab Sample No.(s)	19011502	19011513	19011514	19011515	19011516	19011517
1-5&*\$@	Sample deviation (see appendix)	AGS Reference						
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	6.1	10	20	24	27	24
Loss on ignition	<0.7 %	TM018	<0.7	3.11	4.15	4.67	6.28	4.59
Mineral Oil Surrogate % recovery**	%	TM061	85.2	83.5	77.5	76.5	77.7	81.4
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	200	39.9	29.4	51.4	4.96
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	0.0111	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	0.0111	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.318	4.74	2.57	2.2	1.13	0.554
pH	1 pH Units	TM133	8.84	10.9	7.79	7.45	7.81	7.86
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	4.76	11.7	10.8	11.8	11.3	9.76
Cadmium	<0.02 mg/kg	TM181	0.388	1.15	0.912	1.07	0.77	0.763
Chromium	<0.9 mg/kg	TM181	7.06	8.76	10.7	11.6	9.63	11.4
Copper	<1.4 mg/kg	TM181	9.38	59.9	38.3	42.3	30.7	25.7
Lead	<0.7 mg/kg	TM181	7.84	87.2	73.5	70.7	53.6	46.7
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	0.303	0.264	0.211
Nickel	<0.2 mg/kg	TM181	16.6	17.8	20.4	23	19.8	18.3
Selenium	<1 mg/kg	TM181	<1	1.12	1.32	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	45.9	198	120	108	77.5	73.1
ANC @ pH 4	<0.03 mol/kg	TM182	0.177	0.488	0.305	0.301	0.227	0.384
ANC @ pH 6	<0.03 mol/kg	TM182	0.0798	0.146	0.0485	0.0485	0.0475	0.0723



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Results Legend		Customer Sample Ref.	BH205	BH205	BH205	BH210	BH210	BH210
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.00 - 5.00	5.50 - 7.00	8.00 - 10.00	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		13/12/2018	13/12/2018	13/12/2018	14/12/2018	14/12/2018	14/12/2018
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed		181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
1-5&*\$@	Sample deviation (see appendix)		19011518	19011519	19011520	19011504	19011505	19011506
Component	LOD/Units		Method					
Moisture Content Ratio (% of as received sample)	%	PM024	22	9.4	9.8	15	18	23
Loss on ignition	<0.7 %	TM018	4.54	<0.7	0.984	6.44	6.97	7.19
Mineral Oil Surrogate % recovery**	%	TM061	75.9	84.9	82.4	71.1	81.6	75
Mineral oil >C10-C40	<1 mg/kg	TM061	1.81	18.9	<1	7.51	<1	23.6
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	3.24	0.565	1.71	4.9	4.46	4.38
pH	1 pH Units	TM133	7.69	8.34	9.3	8.15	7.89	7.65
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	10.1	5.4	7.48	22.6	21.2	13.6
Cadmium	<0.02 mg/kg	TM181	0.551	0.256	0.649	9.23	0.781	0.803
Chromium	<0.9 mg/kg	TM181	9.24	5.04	10.2	12	8.23	8.77
Copper	<1.4 mg/kg	TM181	22.5	7.18	8.92	129	184	76
Lead	<0.7 mg/kg	TM181	52.7	8.69	15.4	247	164	192
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	0.185	0.558	0.978
Nickel	<0.2 mg/kg	TM181	18.8	9.85	20.2	20.9	30.1	22.1
Selenium	<1 mg/kg	TM181	<1	<1	<1	1.14	1.27	<1
Zinc	<1.9 mg/kg	TM181	53.1	28.6	74.9	415	159	91.5
ANC @ pH 4	<0.03 mol/kg	TM182	0.206	0.159	0.181	0.298	0.198	0.23
ANC @ pH 6	<0.03 mol/kg	TM182	0.0521	0.0675	0.0757	0.0321	0.0318	0.0355



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Results Legend		Customer Sample Ref.	BH210	BH210	BH210			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-5&*\$@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	3.00 - 4.00 Soil/Solid (S) 14/12/2018 . 19/12/2018 181220-70 19011508	4.00 - 5.50 Soil/Solid (S) 14/12/2018 . 19/12/2018 181220-70 19011509	8.00 - 10.00 Soil/Solid (S) 14/12/2018 . 19/12/2018 181220-70 19011512			
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	25	30	13			
Loss on ignition	<0.7 %	TM018	6.03	6.35	2.55			
Mineral Oil Surrogate % recovery**	%	TM061	83.3	74.8	79.6			
Mineral oil >C10-C40	<1 mg/kg	TM061	34.8	1.78	5.79			
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015			
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01			
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015			
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06			
Organic Carbon, Total	<0.2 %	TM132	6.06	3.81	0.811			
pH	1 pH Units	TM133	7.72	7.97	8.41			
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6			
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3			
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3			
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21			
Arsenic	<0.6 mg/kg	TM181	9.99	16.9	6.35			
Cadmium	<0.02 mg/kg	TM181	0.643	0.854	0.605			
Chromium	<0.9 mg/kg	TM181	10.8	14.4	6.52			
Copper	<1.4 mg/kg	TM181	42.3	64.3	14.3			
Lead	<0.7 mg/kg	TM181	104	128	18.8			
Mercury	<0.14 mg/kg	TM181	0.496	0.791	<0.14			
Nickel	<0.2 mg/kg	TM181	19.8	30.3	31.5			
Selenium	<1 mg/kg	TM181	1.06	<1	<1			
Zinc	<1.9 mg/kg	TM181	72	105	59.3			
ANC @ pH 4	<0.03 mol/kg	TM182	0.468	0.514	0.198			
ANC @ pH 6	<0.03 mol/kg	TM182	0.0423	0.0922	0.0511			



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

PAH by GCMS

Results Legend			Customer Sample Ref.	BH201	BH201	BH201	BH201	BH201	BH201
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	0.00 - 1.00	1.00 - 2.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	11/12/2018	11/12/2018	11/12/2018	11/12/2018	11/12/2018	11/12/2018
			Sampled Time						
			Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
			SDG Ref	181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
			Lab Sample No.(s)	19011474	19011475	19011477	19011478	19011479	19011480
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.2	94.3	93.5	96.2	97.6	95.6
Acenaphthene-d10 % recovery**	%	TM218		94.4	91.5	92.4	94.7	94.3	93.4
Phenanthrene-d10 % recovery**	%	TM218		97.1	93.1	91.1	100	92.9	91.1
Chrysene-d12 % recovery**	%	TM218		94.3	91.3	84.3	96.4	91	87.9
Perylene-d12 % recovery**	%	TM218		97.7	93.5	89.1	101	90.1	89.4
Naphthalene	<9 µg/kg	TM218		<9 @ M	<9 @ M	76.8 @ M	101 @ M	43 @ M	62.7 @ M
Acenaphthylene	<12 µg/kg	TM218		15.3 @ M	<12 @ M	<12 @ M	22.1 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	29.8 @ M	71.2 @ M	27.3 @ M	36.4 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	67 @ M	128 @ M	48.2 @ M	66.3 @ M
Phenanthrene	<15 µg/kg	TM218		79.9 @ M	30.1 @ M	234 @ M	835 @ M	242 @ M	364 @ M
Anthracene	<16 µg/kg	TM218		24.3 @ M	32.7 @ M	94 @ M	189 @ M	62.1 @ M	106 @ M
Fluoranthene	<17 µg/kg	TM218		216 @ M	109 @ M	308 @ M	583 @ M	178 @ M	297 @ M
Pyrene	<15 µg/kg	TM218		191 @ M	84.3 @ M	230 @ M	463 @ M	139 @ M	225 @ M
Benz(a)anthracene	<14 µg/kg	TM218		153 @ M	77.9 @ M	128 @ M	292 @ M	81.2 @ M	118 @ M
Chrysene	<10 µg/kg	TM218		128 @ M	56.2 @ M	113 @ M	248 @ M	67.3 @ M	101 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		125 @ M	48.9 @ M	124 @ M	233 @ M	97.7 @ M	110 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		80.2 @ M	28.1 @ M	46.2 @ M	105 @ M	38.8 @ M	43 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		160 @ M	48.5 @ M	75.8 @ M	208 @ M	68.8 @ M	74.4 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		93.6 @ M	<18 @ M	41.1 @ M	94.6 @ M	39.5 @ M	42.8 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		96.9 @ M	<24 @ M	38.7 @ M	91.8 @ M	39.5 @ M	42.4 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1360	515	1610	3670	1170	1690



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

PAH by GCMS

Results Legend			Customer Sample Ref.	BH202	BH202	BH202	BH202	BH203	BH203
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Naphthalene-d8 % recovery**	%	TM218	4.00 - 5.00	97.4	95.2	97.5	96	98.4	98.9
Acenaphthene-d10 % recovery**	%	TM218	5.00 - 5.50	97.7	93	91.7	94.4	94.1	92.5
Phenanthrene-d10 % recovery**	%	TM218	7.00 - 8.00	104	96.7	91.5	96.1	92.7	96.2
Chrysene-d12 % recovery**	%	TM218	8.00 - 9.00	101	94.8	88.4	95.3	89.5	86.3
Perylene-d12 % recovery**	%	TM218	0.00 - 1.00	104	98.4	92.3	97.4	93.8	90.5
Naphthalene	<9 µg/kg	TM218	1.00 - 2.00	176 @ M	20.6 @ M	26 @ M	<9 @ M	25.4 @ M	11 @ M
Acenaphthylene	<12 µg/kg	TM218		31.3 @ M	<12 @ M	<12 @ M	<12 @ M	22 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		59.4 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		139 @ M	15.9 @ M	16.7 @ M	<10 @ M	19.5 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		567 @ M	56.9 @ M	60.7 @ M	<15 @ M	97.4 @ M	42.7 @ M
Anthracene	<16 µg/kg	TM218		202 @ M	30.3 @ M	31.2 @ M	<16 @ M	79.6 @ M	42.4 @ M
Fluoranthene	<17 µg/kg	TM218		589 @ M	94.5 @ M	72.2 @ M	<17 @ M	300 @ M	75.6 @ M
Pyrene	<15 µg/kg	TM218		458 @ M	76.1 @ M	57.1 @ M	<15 @ M	226 @ M	64 @ M
Benz(a)anthracene	<14 µg/kg	TM218		333 @ M	58 @ M	39.4 @ M	<14 @ M	213 @ M	68.2 @ M
Chrysene	<10 µg/kg	TM218		255 @ M	47.7 @ M	32.8 @ M	<10 @ M	165 @ M	81.1 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		205 @ M	35 @ M	41.6 @ M	<15 @ M	231 @ M	74.9 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		119 @ M	20.7 @ M	<14 @ M	<14 @ M	96.1 @ M	30.6 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		249 @ M	40 @ M	27 @ M	<15 @ M	158 @ M	54.2 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		122 @ M	<18 @ M	<18 @ M	<18 @ M	93.3 @ M	31.8 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		41.1 @ M	<23 @ M	<23 @ M	<23 @ M	29 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		118 @ M	<24 @ M	<24 @ M	<24 @ M	83.1 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		3660	496	405	<118	1840	577



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

PAH by GCMS

Results Legend		Customer Sample Ref.	BH203	BH203	BH203	BH203	BH203	BH203
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfilt	Total / unfiltered sample.	Date Sampled	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018
*	Subcontracted test.	Sampled Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
(F)	Trigger breach confirmed	SDG Ref	181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
1-5&*\$@	Sample deviation (see appendix)	Lab Sample No.(s)	19011496	19011497	19011499	19011500	19011501	19011502
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	95.9	96.3	98	96.2	97.4	98.1
Acenaphthene-d10 % recovery**	%	TM218	90.8	94.5	93.8	93.1	94.6	94.7
Phenanthrene-d10 % recovery**	%	TM218	90.7	93.9	96.9	95.3	91.3	96.3
Chrysene-d12 % recovery**	%	TM218	85.1	90.4	94.6	94	86.4	93.1
Perylene-d12 % recovery**	%	TM218	89.3	91.3	96.8	96.5	90.8	95.7
Naphthalene	<9 µg/kg	TM218	40.1 @ M	85.8 @ M	31.7 @ M	<9 @ M	13 @ M	<9 @ #
Acenaphthylene	<12 µg/kg	TM218	<12 @ M	19 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ #
Acenaphthene	<8 µg/kg	TM218	22.2 @ M	26.1 @ M	11.5 @ M	<8 @ M	<8 @ M	<8 @ #
Fluorene	<10 µg/kg	TM218	46.2 @ M	61.2 @ M	25 @ M	<10 @ M	<10 @ M	<10 @ #
Phenanthrene	<15 µg/kg	TM218	89.3 @ M	254 @ M	95.6 @ M	29 @ M	34 @ M	<15 @ #
Anthracene	<16 µg/kg	TM218	61.9 @ M	109 @ M	34.6 @ M	<16 @ M	<16 @ M	<16 @ #
Fluoranthene	<17 µg/kg	TM218	208 @ M	397 @ M	95.8 @ M	29.3 @ M	35.1 @ M	<17 @ #
Pyrene	<15 µg/kg	TM218	166 @ M	335 @ M	80 @ M	24.9 @ M	27.7 @ M	<15 @ #
Benz(a)anthracene	<14 µg/kg	TM218	100 @ M	192 @ M	60.8 @ M	26.1 @ M	20.9 @ M	<14 @ #
Chrysene	<10 µg/kg	TM218	75.2 @ M	157 @ M	48 @ M	18.7 @ M	18.1 @ M	<10 @ #
Benzo(b)fluoranthene	<15 µg/kg	TM218	93.6 @ M	174 @ M	41.3 @ M	17.1 @ M	21.3 @ M	<15 @ #
Benzo(k)fluoranthene	<14 µg/kg	TM218	35.8 @ M	64.8 @ M	22.4 @ M	<14 @ M	<14 @ M	<14 @ #
Benzo(a)pyrene	<15 µg/kg	TM218	61.8 @ M	121 @ M	37.7 @ M	<15 @ M	<15 @ M	<15 @ #
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	33.1 @ M	58.3 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ #
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ #
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24 @ M	59.5 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ #
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1030	2110	584	145	170	<118



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

PAH by GCMS

Results Legend		Customer Sample Ref.	BH205	BH205	BH205	BH205	BH205	BH205
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
		Depth (m)	0.00 - 1.00	1.00 - 1.50	1.50 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	13/12/2018	13/12/2018	13/12/2018	13/12/2018	13/12/2018	13/12/2018
		Sampled Time						
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
		Lab Sample No.(s)	19011513	19011514	19011515	19011516	19011517	19011518
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	95.2	89.4	96.6	89.2	94.3	94.8
Acenaphthene-d10 % recovery**	%	TM218	97.4	88	96.6	88	91.8	93.2
Phenanthrene-d10 % recovery**	%	TM218	99.3	92.3	91.7	93.1	95.2	91.1
Chrysene-d12 % recovery**	%	TM218	96.6	88.8	86.1	89.6	94.2	84.4
Perylene-d12 % recovery**	%	TM218	99.1	91.4	91	91.9	95.6	89.2
Naphthalene	<9 µg/kg	TM218	127 @ M	<9 @ M	12.5 @ M	19.5 @ M	<9 @ M	14.8 @ M
Acenaphthylene	<12 µg/kg	TM218	34.2 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218	25.1 @ M	<8 @ M	<8 @ M	12.8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218	100 @ M	12.9 @ M	15 @ M	37.6 @ M	14.3 @ M	17.6 @ M
Phenanthrene	<15 µg/kg	TM218	301 @ M	72.7 @ M	81.3 @ M	143 @ M	54 @ M	58.9 @ M
Anthracene	<16 µg/kg	TM218	51 @ M	24.1 @ M	41.8 @ M	72.5 @ M	28.3 @ M	32.9 @ M
Fluoranthene	<17 µg/kg	TM218	265 @ M	109 @ M	152 @ M	240 @ M	79.9 @ M	83.3 @ M
Pyrene	<15 µg/kg	TM218	216 @ M	84.4 @ M	116 @ M	188 @ M	63.1 @ M	62.3 @ M
Benz(a)anthracene	<14 µg/kg	TM218	171 @ M	61.6 @ M	88.1 @ M	137 @ M	56.2 @ M	41.5 @ M
Chrysene	<10 µg/kg	TM218	148 @ M	52.1 @ M	72.6 @ M	104 @ M	41.1 @ M	32.2 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	171 @ M	59.7 @ M	88.7 @ M	115 @ M	40.6 @ M	37.2 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	220 @ M	20.6 @ M	35.8 @ M	53.8 @ M	22.6 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218	161 @ M	43.5 @ M	56 @ M	101 @ M	37 @ M	30 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	115 @ M	24.9 @ M	32 @ M	45.2 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	26.6 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	119 @ M	<24 @ M	<24 @ M	54.1 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2250	566	793	1320	437	411



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

PAH by GCMS

Results Legend			Customer Sample Ref.	BH205	BH205	BH210	BH210	BH210	BH210	
#	ISO17025 accredited.									
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-5&*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
Naphthalene-d8 % recovery**	%	TM218	5.50 - 7.00	13/12/2018	8.00 - 10.00	13/12/2018	0.00 - 1.00	14/12/2018	2.00 - 3.00	14/12/2018
Acenaphthene-d10 % recovery**	%	TM218	19/12/2018	181220-70	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
Phenanthrene-d10 % recovery**	%	TM218	181220-70	19011519	181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
Chrysene-d12 % recovery**	%	TM218	19011519	19011520	19011504	19011504	19011505	19011506	19011508	19011508
Perylene-d12 % recovery**	%	TM218								
Naphthalene	<9 µg/kg	TM218	<9 @ M	<9 @ M	43 @ M	<9 @ M	24.1 @ M	<9 @ M	<9 @ M	
Acenaphthylene	<12 µg/kg	TM218	<12 @ M	<12 @ M	119 @ M	<12 @ M	41.4 @ M	<12 @ M	<12 @ M	
Acenaphthene	<8 µg/kg	TM218	<8 @ M	<8 @ M	47.3 @ M	<8 @ M	13.8 @ M	<8 @ M	<8 @ M	
Fluorene	<10 µg/kg	TM218	<10 @ M	<10 @ M	98.5 @ M	<10 @ M	28.9 @ M	<10 @ M	<10 @ M	
Phenanthrene	<15 µg/kg	TM218	<15 @ M	<15 @ M	1140 @ M	59.7 @ M	123 @ M	51.3 @ M	51.3 @ M	
Anthracene	<16 µg/kg	TM218	<16 @ M	<16 @ M	302 @ M	<16 @ M	65.3 @ M	28 @ M	28 @ M	
Fluoranthene	<17 µg/kg	TM218	<17 @ M	<17 @ M	2140 @ M	118 @ M	501 @ M	125 @ M	125 @ M	
Pyrene	<15 µg/kg	TM218	<15 @ M	<15 @ M	1920 @ M	99.6 @ M	439 @ M	106 @ M	106 @ M	
Benz(a)anthracene	<14 µg/kg	TM218	<14 @ M	<14 @ M	1070 @ M	108 @ M	377 @ M	132 @ M	132 @ M	
Chrysene	<10 µg/kg	TM218	<10 @ M	<10 @ M	897 @ M	98.9 @ M	316 @ M	122 @ M	122 @ M	
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15 @ M	<15 @ M	1430 @ M	152 @ M	460 @ M	174 @ M	174 @ M	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14 @ M	<14 @ M	447 @ M	49 @ M	189 @ M	69.6 @ M	69.6 @ M	
Benzo(a)pyrene	<15 µg/kg	TM218	<15 @ M	<15 @ M	976 @ M	77.1 @ M	336 @ M	104 @ M	104 @ M	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18 @ M	<18 @ M	606 @ M	52.3 @ M	182 @ M	59.8 @ M	59.8 @ M	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23 @ M	<23 @ M	175 @ M	<23 @ M	55.8 @ M	<23 @ M	<23 @ M	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24 @ M	<24 @ M	592 @ M	49.5 @ M	161 @ M	45.6 @ M	45.6 @ M	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	12000	863	3310	1020	1020	



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH201	BH201	BH201	BH201	BH201	BH201
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	102 @	99 @	88.6 @	103 @	89.3 @	98 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	<100 @	<100 @	496 @	229 @	<100 @	140 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	15 @	10.6 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	<10 @	68 @	41.2 @	<10 @	22.9 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	<10 @	88.4 @	54.5 @	<10 @	34.3 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	<10 @	158 @	51.9 @	<10 @	31.8 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	1990	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	4250	1930	4800	6610	6490	3540
Aliphatics >C21-C35	<100 µg/kg	TM173	10700	10100	26900	86900	50100	130000
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	1060	8640	29100	15700	58700
Total Aliphatics >C12-C44	<100 µg/kg	TM173	14900	13100	42400	123000	72400	192000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	58.5 @	35.9 @	<10 @	22.9 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	105 @	34.6 @	<10 @	21.6 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	1280	3150	5020	2400	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	4370	6540	24900	46000	23800	15300
Aromatics >EC21-EC35	<100 µg/kg	TM173	19300	29700	73500	120000	60900	51000
Aromatics >EC35-EC44	<100 µg/kg	TM173	2950	7640	15400	25900	12400	6030
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	1810	5040	8680	3820	282
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	26600	45200	117000	197000	99500	72300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	41600	58300	160000	319000	172000	265000



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH203	BH203	BH203	BH203	BH203	BH203
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	89 @	99.8 @	93.8 @	90.4 @	88 2	109 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	315 @	<100 @	<100 @	<100 @	<100 2	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 2	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	29.7 @	<10 @	<10 @	<10 @	<10 2	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089	39.2 @	<10 @	<10 @	<10 @	<10 2	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	124 @	<10 @	<10 @	<10 @	<10 2	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173	1310	872	497	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	7390	3420	2940	<100	845	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	107000	21000	21300	6890	6680	2140
Aliphatics >C35-C44	<100 µg/kg	TM173	56500	4610	6300	1770	1140	463
Total Aliphatics >C12-C44	<100 µg/kg	TM173	173000	29900	31000	8660	8670	2600
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 2	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 2	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	25.7 @	<10 @	<10 @	<10 @	<10 2	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	83.7 @	<10 @	<10 @	<10 @	<10 2	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	409	41400	121	<100	<100	103
Aromatics >EC16-EC21	<100 µg/kg	TM173	18200	328000	11200	<100	3600	1430
Aromatics >EC21-EC35	<100 µg/kg	TM173	59300	718000	42100	5230	15300	6600
Aromatics >EC35-EC44	<100 µg/kg	TM173	6550	135000	4480	700	1030	1110
Aromatics >EC40-EC44	<100 µg/kg	TM173	494	36600	630	<100	<100	178
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	84500	1220000	57900	5930	19900	9250
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	257000	1250000	88900	14600	28600	11900



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

TPH CWG (S)

Results Legend			Customer Sample Ref.	BH205	BH205	BH205	BH205	BH205	BH205
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
GRO Surrogate % recovery**	%	TM089	0.00 - 1.00	77.3 @	115 @	91 @	86.9 @	88 @	116 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	1.00 - 1.50	4370 @	14300 @	8590 @	4520 @	1740 @	1840 @
Aliphatics >C5-C6	<10 µg/kg	TM089	1.50 - 2.00	14.4 @	16.3 @	15.8 @	17.7 @	15.7 @	19.2 @
Aliphatics >C6-C8	<10 µg/kg	TM089	2.00 - 3.00	114 @	145 @	137 @	87 @	49.8 @	83.2 @
Aliphatics >C8-C10	<10 µg/kg	TM089	3.00 - 4.00	715 @	4080 @	2590 @	1290 @	462 @	434 @
Aliphatics >C10-C12	<10 µg/kg	TM089	4.00 - 5.00	1830 @	4380 @	2470 @	1360 @	542 @	607 @
Aliphatics >C12-C16	<100 µg/kg	TM173		38600 @	5830 @	<100 @	2270 @	<100 @	<100 @
Aliphatics >C16-C21	<100 µg/kg	TM173		53800 @	17400 @	6220 @	9060 @	2180 @	2340 @
Aliphatics >C21-C35	<100 µg/kg	TM173		116000 @	104000 @	98900 @	80300 @	28900 @	17200 @
Aliphatics >C35-C44	<100 µg/kg	TM173		31000 @	24700 @	19800 @	26600 @	5940 @	6500 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173		239000 @	152000 @	125000 @	118000 @	37000 @	26100 @
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		476 @	2720 @	1730 @	857 @	308 @	289 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		1220 @	2920 @	1650 @	908 @	362 @	404 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		19600 @	4170 @	843 @	2260 @	1540 @	<100 @
Aromatics >EC16-EC21	<100 µg/kg	TM173		26700 @	12500 @	8860 @	12600 @	10200 @	7230 @
Aromatics >EC21-EC35	<100 µg/kg	TM173		31500 @	47900 @	49100 @	64600 @	48200 @	32100 @
Aromatics >EC35-EC44	<100 µg/kg	TM173		3050 @	10400 @	4430 @	16800 @	12500 @	7070 @
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100 @	3440 @	<100 @	5800 @	3560 @	1850 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		80900 @	75000 @	63200 @	96300 @	72500 @	46400 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		325000 @	241000 @	197000 @	219000 @	111000 @	74300 @



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH205	BH205	BH210	BH210	BH210	BH210
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
		Depth (m)	5.50 - 7.00	8.00 - 10.00	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
		Date Sampled	13/12/2018	13/12/2018	14/12/2018	14/12/2018	14/12/2018	14/12/2018
		Sampled Time						
		Date Received	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018	19/12/2018
		SDG Ref	181220-70	181220-70	181220-70	181220-70	181220-70	181220-70
		Lab Sample No.(s)	19011519	19011520	19011504	19011505	19011506	19011508
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	97	87.9	86.8	93.7	95.3	80.7
			@	2	@	@	@	@
GRO TOT (Moisture Corrected)	<100	TM089	1290	<100	<100	<100	<100	<100
	µg/kg		@	2	@	@	@	@
Aliphatics >C5-C6	<10	TM089	<10	<10	<10	<10	<10	<10
	µg/kg		@	2	@	@	@	@
Aliphatics >C6-C8	<10	TM089	40.7	<10	<10	<10	<10	<10
	µg/kg		@	2	@	@	@	@
Aliphatics >C8-C10	<10	TM089	320	16.7	<10	<10	<10	<10
	µg/kg		@	2	@	@	@	@
Aliphatics >C10-C12	<10	TM089	426	15.5	<10	<10	<10	<10
	µg/kg		@	2	@	@	@	@
Aliphatics >C12-C16	<100	TM173	<100	<100	2690	<100	2190	<100
	µg/kg							
Aliphatics >C16-C21	<100	TM173	1020	224	4560	1890	4870	4290
	µg/kg							
Aliphatics >C21-C35	<100	TM173	19900	5200	32500	7870	29300	66700
	µg/kg							
Aliphatics >C35-C44	<100	TM173	11200	1440	10400	<100	12600	36700
	µg/kg							
Total Aliphatics >C12-C44	<100	TM173	32200	6870	50200	9750	49000	108000
	µg/kg							
Aromatics >EC5-EC7	<10	TM089	<10	<10	<10	<10	<10	<10
	µg/kg		@	2	@	@	@	@
Aromatics >EC7-EC8	<10	TM089	<10	<10	<10	<10	<10	<10
	µg/kg		@	2	@	@	@	@
Aromatics >EC8-EC10	<10	TM089	213	11.1	<10	<10	<10	<10
	µg/kg		@	2	@	@	@	@
Aromatics >EC10-EC12	<10	TM089	284	<10	<10	<10	<10	<10
	µg/kg		@	2	@	@	@	@
Aromatics >EC12-EC16	<100	TM173	<100	<100	2800	1260	1440	2310
	µg/kg							
Aromatics >EC16-EC21	<100	TM173	<100	<100	21800	7490	13100	14400
	µg/kg							
Aromatics >EC21-EC35	<100	TM173	8430	730	72900	30700	53000	70100
	µg/kg							
Aromatics >EC35-EC44	<100	TM173	3400	<100	18000	4500	10100	22800
	µg/kg							
Aromatics >EC40-EC44	<100	TM173	1220	<100	5260	<100	1990	7350
	µg/kg							
Total Aromatics >EC12-EC44	<100	TM173	11800	730	116000	43900	77700	110000
	µg/kg							
Total Aliphatics & Aromatics >C5-C44	<100	TM173	45300	7640	166000	53700	127000	217000
	µg/kg							



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH210	BH210				
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	88.7	88.8				
			@	@				
GRO TOT (Moisture Corrected)	<100	TM089	<100	<100				
	µg/kg		@	@				
Aliphatics >C5-C6	<10	TM089	<10	<10				
	µg/kg		@	@				
Aliphatics >C6-C8	<10	TM089	<10	<10				
	µg/kg		@	@				
Aliphatics >C8-C10	<10	TM089	<10	<10				
	µg/kg		@	@				
Aliphatics >C10-C12	<10	TM089	<10	<10				
	µg/kg		@	@				
Aliphatics >C12-C16	<100	TM173	<100	<100				
	µg/kg							
Aliphatics >C16-C21	<100	TM173	1850	<100				
	µg/kg							
Aliphatics >C21-C35	<100	TM173	10900	846				
	µg/kg							
Aliphatics >C35-C44	<100	TM173	1280	<100				
	µg/kg							
Total Aliphatics >C12-C44	<100	TM173	14000	846				
	µg/kg							
Aromatics >EC5-EC7	<10	TM089	<10	<10				
	µg/kg		@	@				
Aromatics >EC7-EC8	<10	TM089	<10	<10				
	µg/kg		@	@				
Aromatics >EC8-EC10	<10	TM089	<10	<10				
	µg/kg		@	@				
Aromatics >EC10-EC12	<10	TM089	<10	<10				
	µg/kg		@	@				
Aromatics >EC12-EC16	<100	TM173	<100	220				
	µg/kg							
Aromatics >EC16-EC21	<100	TM173	7180	626				
	µg/kg							
Aromatics >EC21-EC35	<100	TM173	32000	3790				
	µg/kg							
Aromatics >EC35-EC44	<100	TM173	4300	6040				
	µg/kg							
Aromatics >EC40-EC44	<100	TM173	<100	3470				
	µg/kg							
Total Aromatics >EC12-EC44	<100	TM173	43500	10700				
	µg/kg							
Total Aliphatics & Aromatics >C5-C44	<100	TM173	57500	11500				
	µg/kg							



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

VOC MS (S)

Table with columns: Results Legend, Customer Sample Ref., Depth (m), Sample Type, Date Sampled, Sampled Time, Date Received, SDG Ref, Lab Sample No.(s), AGS Reference, Component, LOD/Units, Method, and data columns for BH201 (0.00-1.00, 1.00-2.00, 3.00-4.00, 4.00-5.00, 5.00-6.00, 6.00-7.00).



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Asbestos Identification - Solid Samples

Results Legend

ISO17025 accredited.
 M mCERTS accredited.
 * Subcontracted test.
 (F) Trigger breach confirmed
 1-5&@ Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 0.00 - 1.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011474 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 1.00 - 2.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011475 TM048	02/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 3.00 - 4.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011477 TM048	02/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 4.00 - 5.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011478 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 5.00 - 6.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011479 TM048	02/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 6.00 - 7.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011480 TM048	02/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 7.00 - 8.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011481 TM048	02/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 8.00 - 9.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011482 TM048	02/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 0.00 - 0.50 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011483 TM048	02/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 0.50 - 1.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011485 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 2.00 - 3.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011487 TM048	02/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 3.00 - 4.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011488 TM048	02/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 4.00 - 5.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011489 TM048	02/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 5.00 - 5.50 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011490 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 7.00 - 8.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011492 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 8.00 - 9.00 SOLID 11/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19012241 TM048	02/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 0.00 - 1.00 SOLID 12/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011493 TM048	31/12/2018	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 1.00 - 2.00 SOLID 12/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011494 TM048	31/12/2018	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 2.00 - 3.00 SOLID 12/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011496 TM048	02/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 3.00 - 4.00 SOLID 12/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011497 TM048	02/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 4.00 - 5.00 SOLID 12/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011499 TM048	02/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 5.00 - 6.00 SOLID 12/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011500 TM048	02/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 6.00 - 7.00 SOLID 12/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011501 TM048	02/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 7.00 - 8.00 SOLID 12/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011502 TM048	02/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 0.00 - 1.00 SOLID 13/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011513 TM048	31/12/2018	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 1.00 - 1.50 SOLID 13/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011514 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 1.50 - 2.00 SOLID 13/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011515 TM048	02/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 2.00 - 3.00 SOLID 13/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011516 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 3.00 - 4.00 SOLID 13/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011517 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 4.00 - 5.00 SOLID 13/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011518 TM048	02/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 5.50 - 7.00 SOLID 13/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011519 TM048	31/12/2018	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 8.00 - 10.00 SOLID 13/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011520 TM048	31/12/2018	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 0.00 - 1.00 SOLID 14/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011504 TM048	03/01/2019	Lucy Caroe	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 1.00 - 2.00 SOLID 14/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011505 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 2.00 - 3.00 SOLID 14/12/2018 00:00:00 19/12/2018 09:45:00 181220-70 19011506 TM048	03/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	488549
Location: City Block 9	Order Number: P2021550	Superseded Report: 488301	488301

	Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. BH210 Depth (m) 3.00 - 4.00 Sample Type SOLID Date Sampled 14/12/2018 00:00:00 Date Received 19/12/2018 09:45:00 SDG 181220-70 Original Sample 19011508 Method Number TM048	02/01/2019	Renata Bozhkov	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. BH210 Depth (m) 4.00 - 5.50 Sample Type SOLID Date Sampled 14/12/2018 00:00:00 Date Received 19/12/2018 09:45:00 SDG 181220-70 Original Sample 19011509 Method Number TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. BH210 Depth (m) 8.00 - 10.00 Sample Type SOLID Date Sampled 14/12/2018 00:00:00 Date Received 19/12/2018 09:45:00 SDG 181220-70 Original Sample 19011512 Method Number TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

Asbestos Quantification - Full

Results Legend

- # ISO17025 accredited.
- M mCERTS accredited.
- * Subcontracted test.
- (F) Trigger breach confirmed
- 1-5	@ Sample deviation (see appendix)

	Additional Asbestos Components	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation	Asbestos Quantification - Total - %
Cust. Sample Ref. BH210 Depth (m) 0.00 - 1.00 Sample Type SOLID Date Sampled 14/12/2018 00:00:00 Date Received 19/12/2018 09:45:00 SDG 181220-70 Original Sample 19011504 Method Number TM304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)	19
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	84
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011474
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.845
Loss on Ignition (%)	3.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	9.23
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.06
ANC to pH 6 (mol/kg)	0.0643
ANC to pH 4 (mol/kg)	0.287

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00123	<0.0005	0.0123	<0.005	0.5	2	25
Barium	0.00758	<0.0002	0.0758	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0105	<0.003	0.105	<0.03	0.5	10	30
Nickel	0.00087	<0.0004	0.0087	<0.004	0.4	10	40
Lead	0.000513	<0.0002	0.00513	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00122	<0.001	0.0122	<0.01	0.1	0.5	7
Zinc	0.0159	<0.001	0.159	<0.01	4	50	200
Chloride	2.4	<2	24	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	243	<2	2430	<20	1000	20000	50000
Total Dissolved Solids	390	<5	3900	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.11	<0.016	1.1	<0.16	1	-	-
Dissolved Organic Carbon	4.55	<3	45.5	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.46
Conductivity (µS/cm)	507.00
Temperature (°C)	15.30
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011475
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.47
Loss on Ignition (%)	5.48
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.22
ANC to pH 6 (mol/kg)	0.0417
ANC to pH 4 (mol/kg)	0.331

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00204	<0.0005	0.0204	<0.005	0.5	2	25
Barium	0.0271	<0.0002	0.271	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0317	<0.003	0.317	<0.03	0.5	10	30
Nickel	0.00201	<0.0004	0.0201	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00537	<0.001	0.0537	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00549	<0.001	0.0549	<0.01	4	50	200
Chloride	5.4	<2	54	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	821	<10	8210	<100	1000	20000	50000
Total Dissolved Solids	1070	<5	10700	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.19	<3	51.9	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.59
Conductivity (µS/cm)	1,440.00
Temperature (°C)	15.10
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.123	Natural Moisture Content (%)	37
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	73
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011476
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	-
Loss on Ignition (%)	-
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	-
Mineral Oil (mg/kg)	-
PAH Sum of 17 (mg/kg)	-
pH (pH Units)	-
ANC to pH 6 (mol/kg)	-
ANC to pH 4 (mol/kg)	-

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00133	<0.0005	0.0133	<0.005	0.5	2	25
Barium	0.013	<0.0002	0.13	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00189	<0.0003	0.0189	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0238	<0.003	0.238	<0.03	0.5	10	30
Nickel	0.00132	<0.0004	0.0132	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00331	<0.001	0.0331	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00373	<0.001	0.0373	<0.01	4	50	200
Chloride	5.3	<2	53	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	186	<2	1860	<20	1000	20000	50000
Total Dissolved Solids	392	<5	3920	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.43	<3	84.3	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.44
Conductivity (µS/cm)	514.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location		City Block 9
Mass Sample taken (kg)	0.122	Natural Moisture Content (%)		35.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)		74
Particle Size <4mm	>95%			

Case	
SDG	181220-70
Lab Sample Number(s)	19011477
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.46
Loss on Ignition (%)	5.81
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	19.7
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.11
ANC to pH 6 (mol/kg)	0.1
ANC to pH 4 (mol/kg)	0.415

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00288	<0.0005	0.0288	<0.005	0.5	2	25
Barium	0.00607	<0.0002	0.0607	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0281	<0.003	0.281	<0.03	0.5	10	30
Nickel	0.00142	<0.0004	0.0142	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00231	<0.001	0.0231	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00185	<0.001	0.0185	<0.01	4	50	200
Chloride	7.5	<2	75	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	116	<2	1160	<20	1000	20000	50000
Total Dissolved Solids	334	<5	3340	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	12.7	<3	127	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.36
Conductivity (µS/cm)	443.00
Temperature (°C)	15.60
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011478
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.02
Loss on Ignition (%)	8.16
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	127
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.02
ANC to pH 6 (mol/kg)	0.0674
ANC to pH 4 (mol/kg)	0.204

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00409	<0.0005	0.0409	<0.005	0.5	2	25
Barium	0.00781	<0.0002	0.0781	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0373	<0.003	0.373	<0.03	0.5	10	30
Nickel	0.00189	<0.0004	0.0189	<0.004	0.4	10	40
Lead	0.000681	<0.0002	0.00681	<0.002	0.5	10	50
Antimony	0.00297	<0.001	0.0297	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00255	<0.001	0.0255	<0.01	4	50	200
Chloride	7	<2	70	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	114	<2	1140	<20	1000	20000	50000
Total Dissolved Solids	352	<5	3520	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.3	<3	113	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.08
Conductivity (µS/cm)	484.00
Temperature (°C)	14.00
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.109	Natural Moisture Content (%)	20.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	83
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011479
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.01
Loss on Ignition (%)	2.53
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	15.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.41
ANC to pH 6 (mol/kg)	0.0398
ANC to pH 4 (mol/kg)	0.0689

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0013	<0.0005	0.013	<0.005	0.5	2	25
Barium	0.0158	<0.0002	0.158	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0171	<0.003	0.171	<0.03	0.5	10	30
Nickel	0.00184	<0.0004	0.0184	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00227	<0.001	0.0227	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00306	<0.001	0.0306	<0.01	4	50	200
Chloride	3	<2	30	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	202	<2	2020	<20	1000	20000	50000
Total Dissolved Solids	408	<5	4080	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.95	<3	59.5	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.33
Conductivity (µS/cm)	553.00
Temperature (°C)	15.50
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.114	Natural Moisture Content (%)	26.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	79
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011480
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.69
Loss on Ignition (%)	2.66
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	46.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.8
ANC to pH 6 (mol/kg)	0.0451
ANC to pH 4 (mol/kg)	0.0946

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00256	<0.0005	0.0256	<0.005	0.5	2	25
Barium	0.00556	<0.0002	0.0556	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0213	<0.003	0.213	<0.03	0.5	10	30
Nickel	0.00157	<0.0004	0.0157	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00409	<0.001	0.0409	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00509	<0.001	0.0509	<0.01	4	50	200
Chloride	3.3	<2	33	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	97.9	<2	979	<20	1000	20000	50000
Total Dissolved Solids	268	<5	2680	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.86	<3	68.6	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.38
Conductivity (µS/cm)	339.00
Temperature (°C)	14.70
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.096	Natural Moisture Content (%)	6.95
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.5
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011481
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.31
Loss on Ignition (%)	8.42
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.46
ANC to pH 6 (mol/kg)	0.0787
ANC to pH 4 (mol/kg)	0.196

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00165	<0.0005	0.0165	<0.005	0.5	2	25
Barium	0.00441	<0.0002	0.0441	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0046	<0.003	0.046	<0.03	0.5	10	30
Nickel	0.000938	<0.0004	0.00938	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00202	<0.001	0.0202	<0.01	0.06	0.7	5
Selenium	0.00115	<0.001	0.0115	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	45.1	<2	451	<20	1000	20000	50000
Total Dissolved Solids	120	<5	1200	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.65
Conductivity (µS/cm)	157.00
Temperature (°C)	13.90
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.2
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011482
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.305
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.77
ANC to pH 6 (mol/kg)	0.0831
ANC to pH 4 (mol/kg)	0.221

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00141	<0.0005	0.0141	<0.005	0.5	2	25
Barium	0.00546	<0.0002	0.0546	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00345	<0.003	0.0345	<0.03	0.5	10	30
Nickel	0.001	<0.0004	0.01	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00138	<0.001	0.0138	<0.01	0.06	0.7	5
Selenium	0.00142	<0.001	0.0142	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	2.5	<2	25	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	38.6	<2	386	<20	1000	20000	50000
Total Dissolved Solids	106	<5	1060	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	9.13
Conductivity (µS/cm)	136.00
Temperature (°C)	15.50
Volume Leachant (Litres)	0.893

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011483
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.7
Loss on Ignition (%)	6.27
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	11.6
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.67
ANC to pH 6 (mol/kg)	0.0514
ANC to pH 4 (mol/kg)	0.18

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00604	<0.0005	0.0604	<0.005	0.5	2	25
Barium	0.0258	<0.0002	0.258	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00543	<0.0003	0.0543	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0154	<0.003	0.154	<0.03	0.5	10	30
Nickel	0.00154	<0.0004	0.0154	<0.004	0.4	10	40
Lead	0.00105	<0.0002	0.0105	<0.002	0.5	10	50
Antimony	0.00348	<0.001	0.0348	<0.01	0.06	0.7	5
Selenium	0.00208	<0.001	0.0208	<0.01	0.1	0.5	7
Zinc	0.0226	<0.001	0.226	<0.01	4	50	200
Chloride	5	<2	50	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	158	<2	1580	<20	1000	20000	50000
Total Dissolved Solids	286	<5	2860	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.47	<3	64.7	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.22
Conductivity (µS/cm)	375.00
Temperature (°C)	12.80
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.115	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011485
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	0.50 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.72
Loss on Ignition (%)	4.87
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.11
PAH Sum of 17 (mg/kg)	49.2
pH (pH Units)	7.91
ANC to pH 6 (mol/kg)	0.0393
ANC to pH 4 (mol/kg)	0.206

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000611	<0.0005	0.00611	<0.005	0.5	2	25
Barium	0.0134	<0.0002	0.134	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00329	<0.0003	0.0329	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0153	<0.003	0.153	<0.03	0.5	10	30
Nickel	0.00146	<0.0004	0.0146	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00128	<0.001	0.0128	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0063	<0.001	0.063	<0.01	4	50	200
Chloride	2.9	<2	29	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	110	<2	1100	<20	1000	20000	50000
Total Dissolved Solids	280	<5	2800	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.33	<3	43.3	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.29
Conductivity (µS/cm)	362.00
Temperature (°C)	15.70
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	181220-70	Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011487
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.26
Loss on Ignition (%)	4.3
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.75
ANC to pH 6 (mol/kg)	0.0766
ANC to pH 4 (mol/kg)	0.27

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert	Stable	Hazardous
Arsenic	0.00221	<0.0005	0.0221	<0.005	0.5	2	25
Barium	0.00778	<0.0002	0.0778	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0248	<0.003	0.248	<0.03	0.5	10	30
Nickel	0.00115	<0.0004	0.0115	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00225	<0.001	0.0225	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00107	<0.001	0.0107	<0.01	4	50	200
Chloride	5.6	<2	56	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	113	<2	1130	<20	1000	20000	50000
Total Dissolved Solids	285	<5	2850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.97	<3	89.7	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.98
Conductivity (µS/cm)	384.00
Temperature (°C)	15.30
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

15/01/2019 14:25:54



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	
Location: City Block 9	Order Number: P2021550	Superseded Report: 488301	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.122	Natural Moisture Content (%)	35.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	74
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011488
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.45
Loss on Ignition (%)	9.15
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.09
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.84
ANC to pH 6 (mol/kg)	0.0849
ANC to pH 4 (mol/kg)	0.284

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00268	<0.0005	0.0268	<0.005	0.5	2	25
Barium	0.00736	<0.0002	0.0736	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00055	<0.0003	0.0055	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0367	<0.003	0.367	<0.03	0.5	10	30
Nickel	0.00183	<0.0004	0.0183	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00291	<0.001	0.0291	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00198	<0.001	0.0198	<0.01	4	50	200
Chloride	14.8	<2	148	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	72	<2	720	<20	1000	20000	50000
Total Dissolved Solids	280	<5	2800	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	11.9	<3	119	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.51
Conductivity (µS/cm)	380.00
Temperature (°C)	14.80
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011489
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.56
Loss on Ignition (%)	7.74
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	25.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0876
ANC to pH 4 (mol/kg)	0.228

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00301	<0.0005	0.0301	<0.005	0.5	2	25
Barium	0.00802	<0.0002	0.0802	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0348	<0.003	0.348	<0.03	0.5	10	30
Nickel	0.00223	<0.0004	0.0223	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00271	<0.001	0.0271	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00635	<0.001	0.0635	<0.01	4	50	200
Chloride	10.2	<2	102	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	203	<2	2030	<20	1000	20000	50000
Total Dissolved Solids	476	<5	4760	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14	<3	140	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.23
Conductivity (µS/cm)	623.00
Temperature (°C)	14.80
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location		City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)		11
Mass of dry sample (kg)	0.090	Dry Matter Content (%)		90.1
Particle Size <4mm	>95%			

Case	
SDG	181220-70
Lab Sample Number(s)	19011490
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	5.00 - 5.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.518
Loss on Ignition (%)	0.869
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.49
ANC to pH 6 (mol/kg)	0.119
ANC to pH 4 (mol/kg)	0.44

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00157	<0.0005	0.0157	<0.005	0.5	2	25
Barium	0.00717	<0.0002	0.0717	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0135	<0.003	0.135	<0.03	0.5	10	30
Nickel	0.00159	<0.0004	0.0159	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0038	<0.001	0.038	<0.01	0.06	0.7	5
Selenium	0.00113	<0.001	0.0113	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	5.5	<2	55	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	85.6	<2	856	<20	1000	20000	50000
Total Dissolved Solids	230	<5	2300	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.75	<3	37.5	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.42
Conductivity (µS/cm)	286.00
Temperature (°C)	14.60
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	
Location: City Block 9	Order Number: P2021550	Superseded Report: 488301	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	14.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	87
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011492
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.757
Loss on Ignition (%)	1.35
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.5
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.12
ANC to pH 6 (mol/kg)	0.091
ANC to pH 4 (mol/kg)	0.369

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00134	<0.0005	0.0134	<0.005	0.5	2	25
Barium	0.0157	<0.0002	0.157	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0112	<0.003	0.112	<0.03	0.5	10	30
Nickel	0.00155	<0.0004	0.0155	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00276	<0.001	0.0276	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00102	<0.001	0.0102	<0.01	4	50	200
Chloride	7.7	<2	77	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	102	<2	1020	<20	1000	20000	50000
Total Dissolved Solids	246	<5	2460	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.19
Conductivity (µS/cm)	323.00
Temperature (°C)	15.00
Volume Leachant (Litres)	0.887

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 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	
Location: City Block 9	Order Number: P2021550	Superseded Report: 488301	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.111	Natural Moisture Content (%)	23.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	81
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011493
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.369
Loss on Ignition (%)	3.32
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.83
ANC to pH 6 (mol/kg)	<0.03
ANC to pH 4 (mol/kg)	0.23

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.002	<0.0005	0.02	<0.005	0.5	2	25
Barium	0.0135	<0.0002	0.135	<0.002	20	100	300
Cadmium	0.000235	<0.00008	0.00235	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00038	<0.0003	0.0038	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0161	<0.003	0.161	<0.03	0.5	10	30
Nickel	0.00228	<0.0004	0.0228	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00539	<0.001	0.0539	<0.01	4	50	200
Chloride	7.3	<2	73	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	1180	<10	11800	<100	1000	20000	50000
Total Dissolved Solids	1380	<5	13800	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.67	<3	36.7	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.85
Conductivity (µS/cm)	1,670.00
Temperature (°C)	8.60
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.106	Natural Moisture Content (%)	17.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	85
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011494
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.971
Loss on Ignition (%)	0.991
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.12
ANC to pH 6 (mol/kg)	0.0461
ANC to pH 4 (mol/kg)	0.0814

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00114	<0.0005	0.0114	<0.005	0.5	2	25
Barium	0.00396	<0.0002	0.0396	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00709	<0.003	0.0709	<0.03	0.5	10	30
Nickel	0.000972	<0.0004	0.00972	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	4.3	<2	43	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	102	<2	1020	<20	1000	20000	50000
Total Dissolved Solids	213	<5	2130	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.31	<3	33.1	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.34
Conductivity (µS/cm)	258.00
Temperature (°C)	9.90
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.122	Natural Moisture Content (%)	35.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	74
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011496
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.75
Loss on Ignition (%)	4.61
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.49
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.73
ANC to pH 6 (mol/kg)	0.0384
ANC to pH 4 (mol/kg)	0.422

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00399	<0.0005	0.0399	<0.005	0.5	2	25
Barium	0.323	<0.0002	3.23	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0274	<0.003	0.274	<0.03	0.5	10	30
Nickel	0.00127	<0.0004	0.0127	<0.004	0.4	10	40
Lead	0.00038	<0.0002	0.0038	<0.002	0.5	10	50
Antimony	0.00682	<0.001	0.0682	<0.01	0.06	0.7	5
Selenium	0.00118	<0.001	0.0118	<0.01	0.1	0.5	7
Zinc	0.00707	<0.001	0.0707	<0.01	4	50	200
Chloride	11.4	<2	114	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	105	<2	1050	<20	1000	20000	50000
Total Dissolved Solids	271	<5	2710	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.48	<3	84.8	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.38
Conductivity (µS/cm)	351.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.868

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

15/01/2019 14:25:54



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.123	Natural Moisture Content (%)	37
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	73
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011497
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	5.08
Loss on Ignition (%)	5.22
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.94
ANC to pH 6 (mol/kg)	0.0841
ANC to pH 4 (mol/kg)	0.425

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00271	<0.0005	0.0271	<0.005	0.5	2	25
Barium	0.00676	<0.0002	0.0676	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0314	<0.003	0.314	<0.03	0.5	10	30
Nickel	0.00157	<0.0004	0.0157	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00249	<0.001	0.0249	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00177	<0.001	0.0177	<0.01	4	50	200
Chloride	11.5	<2	115	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	111	<2	1110	<20	1000	20000	50000
Total Dissolved Solids	316	<5	3160	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.9	<3	109	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.36
Conductivity (µS/cm)	412.00
Temperature (°C)	15.10
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011499
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.18
Loss on Ignition (%)	6.66
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0607
ANC to pH 4 (mol/kg)	0.22

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00513	<0.0005	0.0513	<0.005	0.5	2	25
Barium	0.381	<0.0002	3.81	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0487	<0.003	0.487	<0.03	0.5	10	30
Nickel	0.00217	<0.0004	0.0217	<0.004	0.4	10	40
Lead	0.000592	<0.0002	0.00592	<0.002	0.5	10	50
Antimony	0.00538	<0.001	0.0538	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0113	<0.001	0.113	<0.01	4	50	200
Chloride	15.1	<2	151	<20	800	15000	25000
Fluoride	0.551	<0.5	5.51	<5	10	150	500
Sulphate (soluble)	83.6	<2	836	<20	1000	20000	50000
Total Dissolved Solids	329	<5	3290	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	15.3	<3	153	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.29
Conductivity (µS/cm)	388.00
Temperature (°C)	9.80
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.53
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.3
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011500
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	5.00 - 6.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	-
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.01
Loss on Ignition (%)	-
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.61
ANC to pH 6 (mol/kg)	0.0558
ANC to pH 4 (mol/kg)	0.0914

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00405	<0.0005	0.0405	<0.005	0.5	2	25
Barium	0.00197	<0.0002	0.0197	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00692	<0.003	0.0692	<0.03	0.5	10	30
Nickel	0.000579	<0.0004	0.00579	<0.004	0.4	10	40
Lead	0.000282	<0.0002	0.00282	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00121	<0.001	0.0121	<0.01	4	50	200
Chloride	4.7	<2	47	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	33.6	<2	336	<20	1000	20000	50000
Total Dissolved Solids	106	<5	1060	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.04	<0.016	0.4	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	9.31
Conductivity (µS/cm)	134.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.81
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.9
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011501
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	6.00 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.81
Loss on Ignition (%)	0.972
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	22.2
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.22
ANC to pH 6 (mol/kg)	0.0933
ANC to pH 4 (mol/kg)	0.345

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00118	<0.0005	0.0118	<0.005	0.5	2	25
Barium	0.00454	<0.0002	0.0454	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00858	<0.003	0.0858	<0.03	0.5	10	30
Nickel	0.00143	<0.0004	0.0143	<0.004	0.4	10	40
Lead	0.000218	<0.0002	0.00218	<0.002	0.5	10	50
Antimony	0.00168	<0.001	0.0168	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	2.6	<2	26	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	82.8	<2	828	<20	1000	20000	50000
Total Dissolved Solids	198	<5	1980	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.60
Conductivity (µS/cm)	248.00
Temperature (°C)	15.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	
Location: City Block 9	Order Number: P2021550	Superseded Report: 488301	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.096	Natural Moisture Content (%)	6.5
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.9
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011502
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	7.00 - 8.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.318
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.84
ANC to pH 6 (mol/kg)	0.0798
ANC to pH 4 (mol/kg)	0.177

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00214	<0.0005	0.0214	<0.005	0.5	2	25
Barium	0.00443	<0.0002	0.0443	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00335	<0.003	0.0335	<0.03	0.5	10	30
Nickel	0.00126	<0.0004	0.0126	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00151	<0.001	0.0151	<0.01	0.06	0.7	5
Selenium	0.00167	<0.001	0.0167	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	4.2	<2	42	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	25.5	<2	255	<20	1000	20000	50000
Total Dissolved Solids	86.4	<5	864	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	9.36
Conductivity (µS/cm)	110.00
Temperature (°C)	14.90
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.106	Natural Moisture Content (%)	17.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	85
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011504
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.9
Loss on Ignition (%)	6.44
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.51
PAH Sum of 17 (mg/kg)	12
pH (pH Units)	8.15
ANC to pH 6 (mol/kg)	0.0321
ANC to pH 4 (mol/kg)	0.298

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00502	<0.0005	0.0502	<0.005	0.5	2	25
Barium	0.0206	<0.0002	0.206	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00225	<0.001	0.0225	<0.01	0.5	10	70
Copper	0.00235	<0.0003	0.0235	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0103	<0.003	0.103	<0.03	0.5	10	30
Nickel	0.00181	<0.0004	0.0181	<0.004	0.4	10	40
Lead	0.000598	<0.0002	0.00598	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00239	<0.001	0.0239	<0.01	0.1	0.5	7
Zinc	0.00266	<0.001	0.0266	<0.01	4	50	200
Chloride	35	<2	350	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	743	<10	7430	<100	1000	20000	50000
Total Dissolved Solids	1000	<5	10000	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.68	<3	36.8	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.36
Conductivity (µS/cm)	1,300.00
Temperature (°C)	14.70
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

15/01/2019 14:25:54



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.110	Natural Moisture Content (%)	22
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	82
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011505
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.46
Loss on Ignition (%)	6.97
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.89
ANC to pH 6 (mol/kg)	0.0318
ANC to pH 4 (mol/kg)	0.198

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00189	<0.0005	0.0189	<0.005	0.5	2	25
Barium	0.0202	<0.0002	0.202	<0.002	20	100	300
Cadmium	0.0000855	<0.00008	0.000855	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00194	<0.0003	0.0194	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0112	<0.003	0.112	<0.03	0.5	10	30
Nickel	0.00226	<0.0004	0.0226	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00129	<0.001	0.0129	<0.01	0.1	0.5	7
Zinc	0.00397	<0.001	0.0397	<0.01	4	50	200
Chloride	20	<2	200	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	801	<10	8010	<100	1000	20000	50000
Total Dissolved Solids	1030	<5	10300	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.75
Conductivity (µS/cm)	1,340.00
Temperature (°C)	14.00
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.117	Natural Moisture Content (%)	29.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	77
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011506
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.38
Loss on Ignition (%)	7.19
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	23.6
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.65
ANC to pH 6 (mol/kg)	0.0355
ANC to pH 4 (mol/kg)	0.23

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00138	<0.0005	0.0138	<0.005	0.5	2	25
Barium	0.0266	<0.0002	0.266	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000486	<0.0003	0.00486	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.019	<0.003	0.19	<0.03	0.5	10	30
Nickel	0.00204	<0.0004	0.0204	<0.004	0.4	10	40
Lead	0.00297	<0.0002	0.0297	<0.002	0.5	10	50
Antimony	0.00362	<0.001	0.0362	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00743	<0.001	0.0743	<0.01	4	50	200
Chloride	23.8	<2	238	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	225	<2	2250	<20	1000	20000	50000
Total Dissolved Solids	442	<5	4420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.46	<3	44.6	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.05
Conductivity (µS/cm)	583.00
Temperature (°C)	15.60
Volume Leachant (Litres)	0.873

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011508
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	6.06
Loss on Ignition (%)	6.03
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	34.8
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.72
ANC to pH 6 (mol/kg)	0.0423
ANC to pH 4 (mol/kg)	0.468

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00159	<0.0005	0.0159	<0.005	0.5	2	25
Barium	0.0195	<0.0002	0.195	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0316	<0.003	0.316	<0.03	0.5	10	30
Nickel	0.00146	<0.0004	0.0146	<0.004	0.4	10	40
Lead	0.00592	<0.0002	0.0592	<0.002	0.5	10	50
Antimony	0.0073	<0.001	0.073	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00434	<0.001	0.0434	<0.01	4	50	200
Chloride	19.1	<2	191	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	171	<2	1710	<20	1000	20000	50000
Total Dissolved Solids	396	<5	3960	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.37	<3	63.7	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.95
Conductivity (µS/cm)	527.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	
Location: City Block 9	Order Number: P2021550	Superseded Report: 488301	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.129	Natural Moisture Content (%)	42.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	70
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011509
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	4.00 - 5.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.81
Loss on Ignition (%)	6.35
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.78
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.97
ANC to pH 6 (mol/kg)	0.0922
ANC to pH 4 (mol/kg)	0.514

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00297	<0.0005	0.0297	<0.005	0.5	2	25
Barium	0.00623	<0.0002	0.0623	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000831	<0.0003	0.00831	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0379	<0.003	0.379	<0.03	0.5	10	30
Nickel	0.00146	<0.0004	0.0146	<0.004	0.4	10	40
Lead	0.000274	<0.0002	0.00274	<0.002	0.5	10	50
Antimony	0.00266	<0.001	0.0266	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00347	<0.001	0.0347	<0.01	4	50	200
Chloride	36	<2	360	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	114	<2	1140	<20	1000	20000	50000
Total Dissolved Solids	378	<5	3780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.7	<3	147	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.21
Conductivity (µS/cm)	525.00
Temperature (°C)	15.80
Volume Leachant (Litres)	0.861

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.103	Natural Moisture Content (%)	14.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	87
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011512
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	8.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.811
Loss on Ignition (%)	2.55
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.79
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.0511
ANC to pH 4 (mol/kg)	0.198

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00183	<0.0005	0.0183	<0.005	0.5	2	25
Barium	0.00822	<0.0002	0.0822	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.011	<0.003	0.11	<0.03	0.5	10	30
Nickel	0.000967	<0.0004	0.00967	<0.004	0.4	10	40
Lead	0.000473	<0.0002	0.00473	<0.002	0.5	10	50
Antimony	0.00324	<0.001	0.0324	<0.01	0.06	0.7	5
Selenium	0.00115	<0.001	0.0115	<0.01	0.1	0.5	7
Zinc	0.00415	<0.001	0.0415	<0.01	4	50	200
Chloride	61.5	<2	615	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	86.6	<2	866	<20	1000	20000	50000
Total Dissolved Solids	358	<5	3580	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.03	<3	40.3	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.13
Conductivity (µS/cm)	478.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011513
Sampled Date	13-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	0.00 - 1.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.74
Loss on Ignition (%)	3.11
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	200
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	10.9
ANC to pH 6 (mol/kg)	0.146
ANC to pH 4 (mol/kg)	0.488

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00621	<0.0005	0.0621	<0.005	0.5	2	25
Barium	0.00996	<0.0002	0.0996	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00444	<0.001	0.0444	<0.01	0.5	10	70
Copper	0.0107	<0.0003	0.107	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0228	<0.003	0.228	<0.03	0.5	10	30
Nickel	0.00114	<0.0004	0.0114	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00215	<0.001	0.0215	<0.01	0.06	0.7	5
Selenium	0.0176	<0.001	0.176	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	98.3	<2	983	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	120	<2	1200	<20	1000	20000	50000
Total Dissolved Solids	461	<5	4610	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.32	<3	33.2	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	10.99
Conductivity (µS/cm)	644.00
Temperature (°C)	15.60
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.113	Natural Moisture Content (%)	25
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	80
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011514
Sampled Date	13-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	1.00 - 1.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.57
Loss on Ignition (%)	4.15
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	39.9
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.79
ANC to pH 6 (mol/kg)	0.0485
ANC to pH 4 (mol/kg)	0.305

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0097	<0.0005	0.097	<0.005	0.5	2	25
Barium	0.00983	<0.0002	0.0983	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00136	<0.001	0.0136	<0.01	0.5	10	70
Copper	0.00886	<0.0003	0.0886	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0376	<0.003	0.376	<0.03	0.5	10	30
Nickel	0.00347	<0.0004	0.0347	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00434	<0.001	0.0434	<0.01	0.06	0.7	5
Selenium	0.00352	<0.001	0.0352	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	24.7	<2	247	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	592	<10	5920	<100	1000	20000	50000
Total Dissolved Solids	818	<5	8180	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.52	<3	85.2	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	9.15
Conductivity (µS/cm)	1,100.00
Temperature (°C)	15.30
Volume Leachant (Litres)	0.878

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011515
Sampled Date	13-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	1.50 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.2
Loss on Ignition (%)	4.67
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	29.4
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.45
ANC to pH 6 (mol/kg)	0.0485
ANC to pH 4 (mol/kg)	0.301

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00554	<0.0005	0.0554	<0.005	0.5	2	25
Barium	0.0185	<0.0002	0.185	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0457	<0.003	0.457	<0.03	0.5	10	30
Nickel	0.00371	<0.0004	0.0371	<0.004	0.4	10	40
Lead	0.000206	<0.0002	0.00206	<0.002	0.5	10	50
Antimony	0.0038	<0.001	0.038	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00474	<0.001	0.0474	<0.01	4	50	200
Chloride	9.1	<2	91	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	1040	<10	10400	<100	1000	20000	50000
Total Dissolved Solids	1260	<5	12600	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.18	<3	81.8	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.95
Conductivity (µS/cm)	1,680.00
Temperature (°C)	15.60
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.124	Natural Moisture Content (%)	37
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	73
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011516
Sampled Date	13-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.13
Loss on Ignition (%)	6.28
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	51.4
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.81
ANC to pH 6 (mol/kg)	0.0475
ANC to pH 4 (mol/kg)	0.227

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00354	<0.0005	0.0354	<0.005	0.5	2	25
Barium	0.0153	<0.0002	0.153	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.028	<0.003	0.28	<0.03	0.5	10	30
Nickel	0.00201	<0.0004	0.0201	<0.004	0.4	10	40
Lead	0.0003	<0.0002	0.003	<0.002	0.5	10	50
Antimony	0.00231	<0.001	0.0231	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00444	<0.001	0.0444	<0.01	4	50	200
Chloride	9.6	<2	96	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	418	<2	4180	<20	1000	20000	50000
Total Dissolved Solids	658	<5	6580	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.37	<3	83.7	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.03
Conductivity (µS/cm)	877.00
Temperature (°C)	15.70
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.118	Natural Moisture Content (%)	31.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	76
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011517
Sampled Date	13-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.554
Loss on Ignition (%)	4.59
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4.96
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0723
ANC to pH 4 (mol/kg)	0.384

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00197	<0.0005	0.0197	<0.005	0.5	2	25
Barium	0.0128	<0.0002	0.128	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0281	<0.003	0.281	<0.03	0.5	10	30
Nickel	0.00156	<0.0004	0.0156	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00271	<0.001	0.0271	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00354	<0.001	0.0354	<0.01	4	50	200
Chloride	11.3	<2	113	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	226	<2	2260	<20	1000	20000	50000
Total Dissolved Solids	428	<5	4280	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.68	<3	96.8	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.92
Conductivity (µS/cm)	581.00
Temperature (°C)	14.70
Volume Leachant (Litres)	0.872

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	
Location: City Block 9	Order Number: P2021550	Superseded Report: 488301	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.115	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011518
Sampled Date	13-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
-	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.24
Loss on Ignition (%)	4.54
Sum of BTEX (mg/kg)	-
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	1.81
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.69
ANC to pH 6 (mol/kg)	0.0521
ANC to pH 4 (mol/kg)	0.206

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00226	<0.0005	0.0226	<0.005	0.5	2	25
Barium	0.0118	<0.0002	0.118	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0347	<0.003	0.347	<0.03	0.5	10	30
Nickel	0.00156	<0.0004	0.0156	<0.004	0.4	10	40
Lead	0.000201	<0.0002	0.00201	<0.002	0.5	10	50
Antimony	0.00696	<0.001	0.0696	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0014	<0.001	0.014	<0.01	4	50	200
Chloride	14.1	<2	141	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	146	<2	1460	<20	1000	20000	50000
Total Dissolved Solids	365	<5	3650	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.76	<3	77.6	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.01
Conductivity (µS/cm)	486.00
Temperature (°C)	15.00
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.6
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19011519
Sampled Date	13-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	5.50 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.565
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	18.9
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.34
ANC to pH 6 (mol/kg)	0.0675
ANC to pH 4 (mol/kg)	0.159

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00285	<0.0005	0.0285	<0.005	0.5	2	25
Barium	0.00553	<0.0002	0.0553	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00785	<0.003	0.0785	<0.03	0.5	10	30
Nickel	0.00137	<0.0004	0.0137	<0.004	0.4	10	40
Lead	0.00342	<0.0002	0.0342	<0.002	0.5	10	50
Antimony	0.00116	<0.001	0.0116	<0.01	0.06	0.7	5
Selenium	0.00145	<0.001	0.0145	<0.01	0.1	0.5	7
Zinc	0.00272	<0.001	0.0272	<0.01	4	50	200
Chloride	8.4	<2	84	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	49.4	<2	494	<20	1000	20000	50000
Total Dissolved Solids	145	<5	1450	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.82	<3	38.2	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	8.55
Conductivity (µS/cm)	185.00
Temperature (°C)	15.50
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.9
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.2
Particle Size <4mm	>95%		

Case	181220-70
SDG	181220-70
Lab Sample Number(s)	19011520
Sampled Date	13-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	8.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.71
Loss on Ignition (%)	0.984
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.3
ANC to pH 6 (mol/kg)	0.0757
ANC to pH 4 (mol/kg)	0.181

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00212	<0.0005	0.0212	<0.005	0.5	2	25
Barium	0.00784	<0.0002	0.0784	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00161	<0.001	0.0161	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00328	<0.003	0.0328	<0.03	0.5	10	30
Nickel	0.00251	<0.0004	0.0251	<0.004	0.4	10	40
Lead	0.0018	<0.0002	0.018	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00367	<0.001	0.0367	<0.01	0.1	0.5	7
Zinc	0.0123	<0.001	0.123	<0.01	4	50	200
Chloride	51.8	<2	518	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	21.7	<2	217	<20	1000	20000	50000
Total Dissolved Solids	195	<5	1950	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	27-Dec-2018
pH (pH Units)	9.46
Conductivity (µS/cm)	255.00
Temperature (°C)	15.70
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70	Client Reference: 602387	Report Number: 488549	Superseded Report: 488301
Location: City Block 9	Order Number: P2021550		

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.53
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93
Particle Size <4mm	>95%		

Case	
SDG	181220-70
Lab Sample Number(s)	19012241
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	8.00 - 9.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.684
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.4
ANC to pH 6 (mol/kg)	0.0836
ANC to pH 4 (mol/kg)	0.162

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert	Stable	Hazardous
Arsenic	0.00151	<0.0005	0.0151	<0.005	0.5	2	25
Barium	0.00788	<0.0002	0.0788	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0122	<0.003	0.122	<0.03	0.5	10	30
Nickel	0.00105	<0.0004	0.0105	<0.004	0.4	10	40
Lead	0.000266	<0.0002	0.00266	<0.002	0.5	10	50
Antimony	0.00262	<0.001	0.0262	<0.01	0.06	0.7	5
Selenium	0.00152	<0.001	0.0152	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	5.9	<2	59	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.2	<2	542	<20	1000	20000	50000
Total Dissolved Solids	160	<5	1600	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.33
Conductivity (µS/cm)	211.00
Temperature (°C)	14.90
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

15/01/2019 14:25:54



CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Table of Results - Appendix

Method No	Reference	Description
ASB_PREP		
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM304	HSE Contract research Report no 83/1996	Asbestos Quantification in Soil: Fibres identified by morphology only
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19011474	19011475	19011476	19011477	19011478	19011479	19011480	19011481	19011482	19011483
	BH201	BH201	BH201	BH201	BH201	BH201	BH201	BH201	BH201	BH202
AGS Ref.										
Depth	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	8.00 - 9.00	0.00 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	02-Jan-2019	02-Jan-2019		02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
Anions by Kone (w)	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Asbestos ID in Solid Samples	02-Jan-2019	02-Jan-2019		02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
CEN 10:1 Leachate (1 Stage)	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018
CEN Readings	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
Coronene	07-Jan-2019	07-Jan-2019		05-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019
Dissolved Metals by ICP-MS	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Dissolved Organic/Inorganic Carbon	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	04-Jan-2019		04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	04-Jan-2019		04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Fluoride	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
GRO by GC-FID (S)	05-Jan-2019	08-Jan-2019		05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
Hexavalent Chromium (s)	08-Jan-2019	08-Jan-2019		08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019
Loss on Ignition in soils	10-Jan-2019	10-Jan-2019		07-Jan-2019	09-Jan-2019	07-Jan-2019	10-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019
Mercury Dissolved	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Metals in solid samples by OES	07-Jan-2019	07-Jan-2019		03-Jan-2019	04-Jan-2019	03-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019
Mineral Oil	07-Jan-2019	04-Jan-2019		04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
PAH 16 & 17 Calc	07-Jan-2019	07-Jan-2019		05-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019
PAH by GCMS	04-Jan-2019	04-Jan-2019		05-Jan-2019	04-Jan-2019	05-Jan-2019	05-Jan-2019	04-Jan-2019	05-Jan-2019	05-Jan-2019
PCBs by GCMS	03-Jan-2019	02-Jan-2019		03-Jan-2019	02-Jan-2019	03-Jan-2019	02-Jan-2019	03-Jan-2019	02-Jan-2019	07-Jan-2019
pH	03-Jan-2019	02-Jan-2019		03-Jan-2019	03-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019
Phenols by HPLC (S)	10-Jan-2019	08-Jan-2019		11-Jan-2019	11-Jan-2019	08-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	10-Jan-2019
Phenols by HPLC (W)	08-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
Total Organic Carbon	03-Jan-2019	03-Jan-2019		03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
TPH CWG GC (S)	07-Jan-2019	08-Jan-2019		05-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
VOC MS (S)	05-Jan-2019	09-Jan-2019		09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19011485	19011487	19011488	19011489	19011490	19011492	19012241	19011493	19011494	19011496
	BH202	BH202	BH202	BH202	BH202	BH202	BH202	BH203	BH203	BH203
AGS Ref.										
Depth	0.50 - 1.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.00 - 5.50	7.00 - 8.00	8.00 - 9.00	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
Anions by Kone (w)	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Asbestos ID in Solid Samples	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	31-Dec-2018	31-Dec-2018	02-Jan-2019
CEN 10:1 Leachate (1 Stage)	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018
CEN Readings	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
Coronene	05-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
Dissolved Metals by ICP-MS	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Dissolved Organic/Inorganic Carbon	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Fluoride	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
GRO by GC-FID (S)	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019
Hexavalent Chromium (s)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Loss on Ignition in soils	10-Jan-2019	08-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	04-Jan-2019	04-Jan-2019	09-Jan-2019
Mercury Dissolved	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Metals in solid samples by OES	07-Jan-2019	03-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Mineral Oil	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
PAH 16 & 17 Calc	05-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019
PAH by GCMS	05-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	05-Jan-2019	04-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
PCBs by GCMS	02-Jan-2019	03-Jan-2019	03-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
pH	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
Phenols by HPLC (S)	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	08-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	11-Jan-2019
Phenols by HPLC (W)	10-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019
Total Organic Carbon	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
TPH CWG GC (S)	07-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019
VOC MS (S)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 **Client Reference:** 602387 **Report Number:** 488549
Location: City Block 9 **Order Number:** P2021550 **Superseded Report:** 488301

Lab Sample No(s) Customer Sample Ref.	19011497	19011499	19011500	19011501	19011502	19011513	19011514	19011515	19011516	19011517
	BH203	BH203	BH203	BH203	BH203	BH205	BH205	BH205	BH205	BH205
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	3.00 - 4.00	4.00 - 5.00	5.00 - 6.00	6.00 - 7.00	7.00 - 8.00	0.00 - 1.00	1.00 - 1.50	1.50 - 2.00	2.00 - 3.00	3.00 - 4.00
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
Anions by Kone (w)	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Asbestos ID in Solid Samples	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	31-Dec-2018	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
CEN 10:1 Leachate (1 Stage)	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018
CEN Readings	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
Coronene	05-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	03-Jan-2019	05-Jan-2019	03-Jan-2019	07-Jan-2019
Dissolved Metals by ICP-MS	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Dissolved Organic/Inorganic Carbon	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019
Fluoride	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
GRO by GC-FID (S)	05-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	08-Jan-2019
Hexavalent Chromium (s)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Loss on Ignition in soils	03-Jan-2019	02-Jan-2019		07-Jan-2019	10-Jan-2019	02-Jan-2019	02-Jan-2019	08-Jan-2019	02-Jan-2019	02-Jan-2019
Mercury Dissolved	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Metals in solid samples by OES	03-Jan-2019	07-Jan-2019	04-Jan-2019	03-Jan-2019	07-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
Mineral Oil	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	02-Jan-2019	04-Jan-2019	02-Jan-2019	07-Jan-2019
PAH 16 & 17 Calc	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	03-Jan-2019	05-Jan-2019	03-Jan-2019	07-Jan-2019
PAH by GCMS	05-Jan-2019	04-Jan-2019	04-Jan-2019	05-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	05-Jan-2019	03-Jan-2019	04-Jan-2019
PCBs by GCMS	03-Jan-2019	03-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
pH	02-Jan-2019	02-Jan-2019	03-Jan-2019	02-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019
Phenols by HPLC (S)	10-Jan-2019	11-Jan-2019	11-Jan-2019	08-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	10-Jan-2019	11-Jan-2019
Phenols by HPLC (W)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
Total Organic Carbon	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
TPH CWG GC (S)	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	08-Jan-2019
VOC MS (S)	08-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	09-Jan-2019	05-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19011518	19011519	19011520	19011504	19011505	19011506	19011508	19011509	19011512
	BH205	BH205	BH205	BH210	BH210	BH210	BH210	BH210	BH210
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	4.00 - 5.00	5.50 - 7.00	8.00 - 10.00	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.50	8.00 - 10.00
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	02-Jan-2019	02-Jan-2019	02-Jan-2019	04-Jan-2019	04-Jan-2019	02-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Anions by Kone (w)	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
Asbestos ID in Solid Samples	02-Jan-2019	31-Dec-2018	31-Dec-2018	04-Jan-2019	03-Jan-2019	03-Jan-2019	02-Jan-2019	03-Jan-2019	03-Jan-2019
Asbestos Quantification - Full				15-Jan-2019					
CEN 10:1 Leachate (1 Stage)	29-Dec-2018	27-Dec-2018	27-Dec-2018	29-Dec-2018	29-Dec-2018	27-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018
CEN Readings	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	03-Jan-2019
Coronene	05-Jan-2019	03-Jan-2019	03-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Dissolved Metals by ICP-MS	04-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019
Dissolved Organic/Inorganic Carbon	04-Jan-2019	04-Jan-2019	04-Jan-2019	05-Jan-2019	05-Jan-2019	04-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019
Fluoride	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	05-Jan-2019	04-Jan-2019
GRO by GC-FID (S)	05-Jan-2019	05-Jan-2019	10-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
Hexavalent Chromium (s)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Loss on Ignition in soils	09-Jan-2019	03-Jan-2019	02-Jan-2019	14-Jan-2019	03-Jan-2019	08-Jan-2019	04-Jan-2019	04-Jan-2019	31-Dec-2018
Mercury Dissolved	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019
Metals in solid samples by OES	04-Jan-2019	04-Jan-2019	03-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019	03-Jan-2019	03-Jan-2019
Mineral Oil	04-Jan-2019	02-Jan-2019	02-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019
PAH 16 & 17 Calc	07-Jan-2019	03-Jan-2019	03-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019
PAH by GCMS	05-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	08-Jan-2019	04-Jan-2019	08-Jan-2019	04-Jan-2019	08-Jan-2019
PCBs by GCMS	02-Jan-2019	03-Jan-2019	03-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019	08-Jan-2019	03-Jan-2019	08-Jan-2019
pH	03-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
Phenols by HPLC (S)	11-Jan-2019	11-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	12-Jan-2019	11-Jan-2019
Phenols by HPLC (W)	08-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	11-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	03-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019
Total Organic Carbon	03-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019
TPH CWG GC (S)	07-Jan-2019	05-Jan-2019	10-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019
VOC MS (S)	09-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

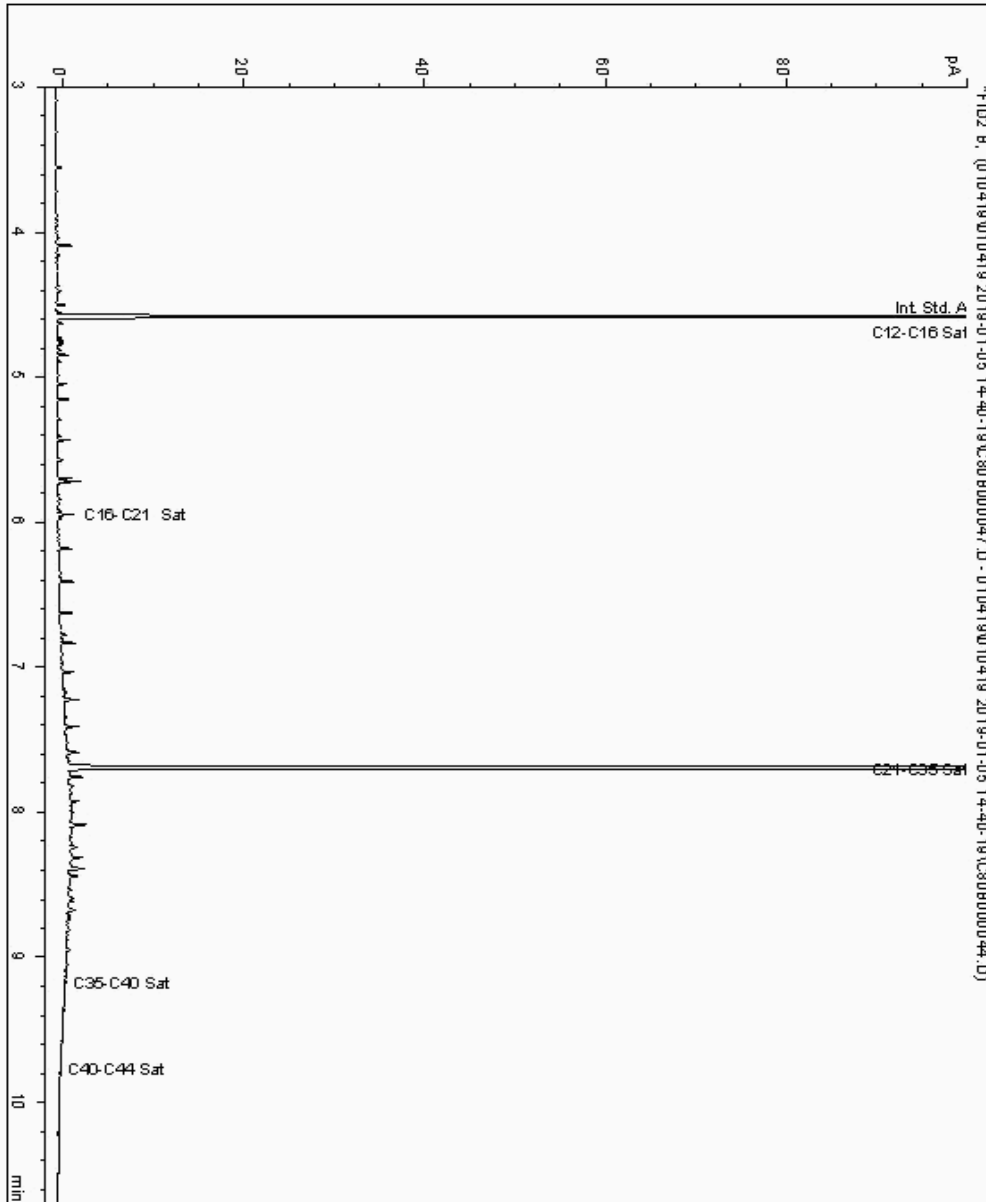
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19017516
Sample ID : BH210

Depth : 0.00 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868677-
Date Acquired : 05/01/19 16:57:21
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

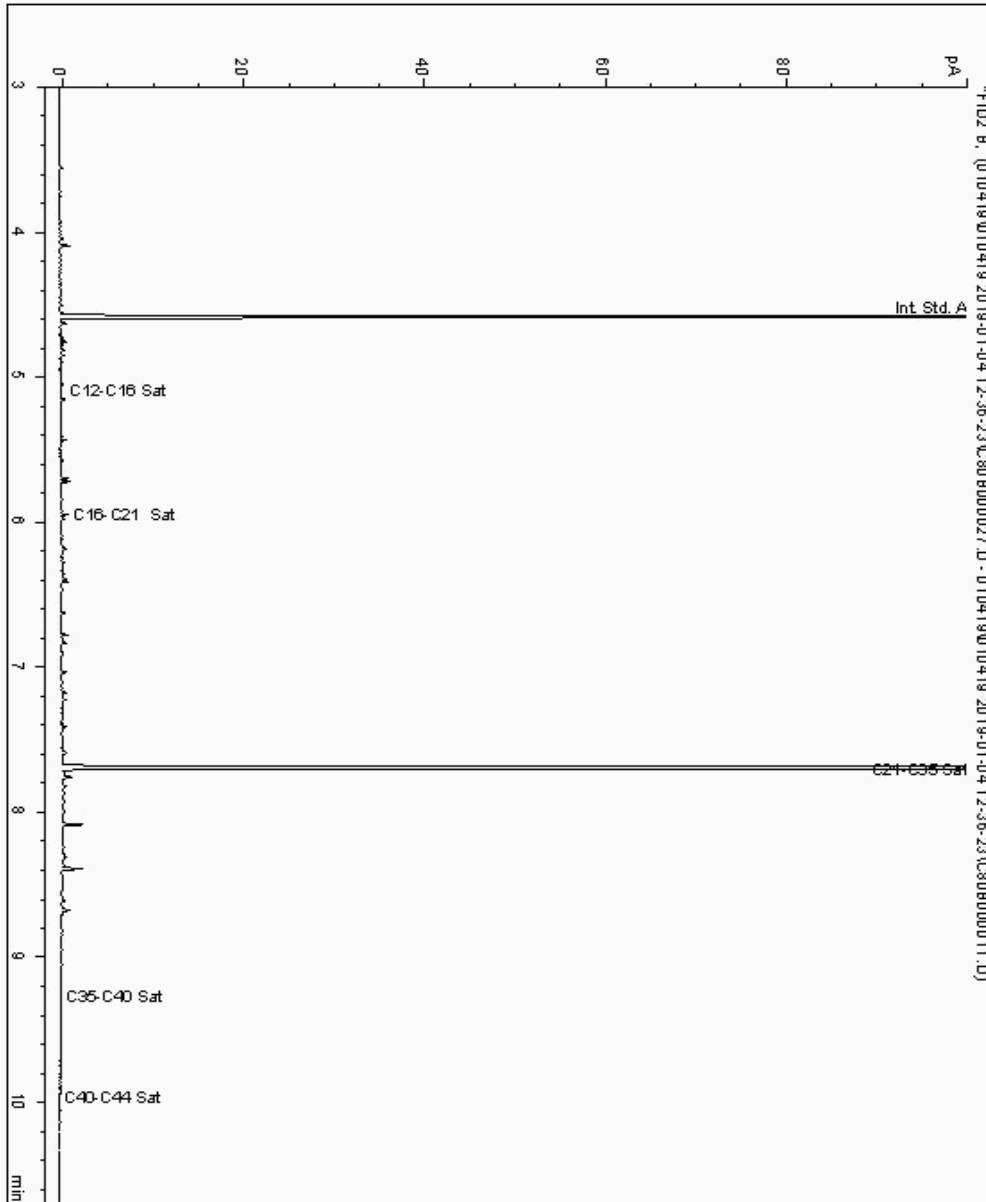
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19018204
Sample ID : BH203

Depth : 0.00 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867751-
Date Acquired : 04/01/19 18:20:55
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

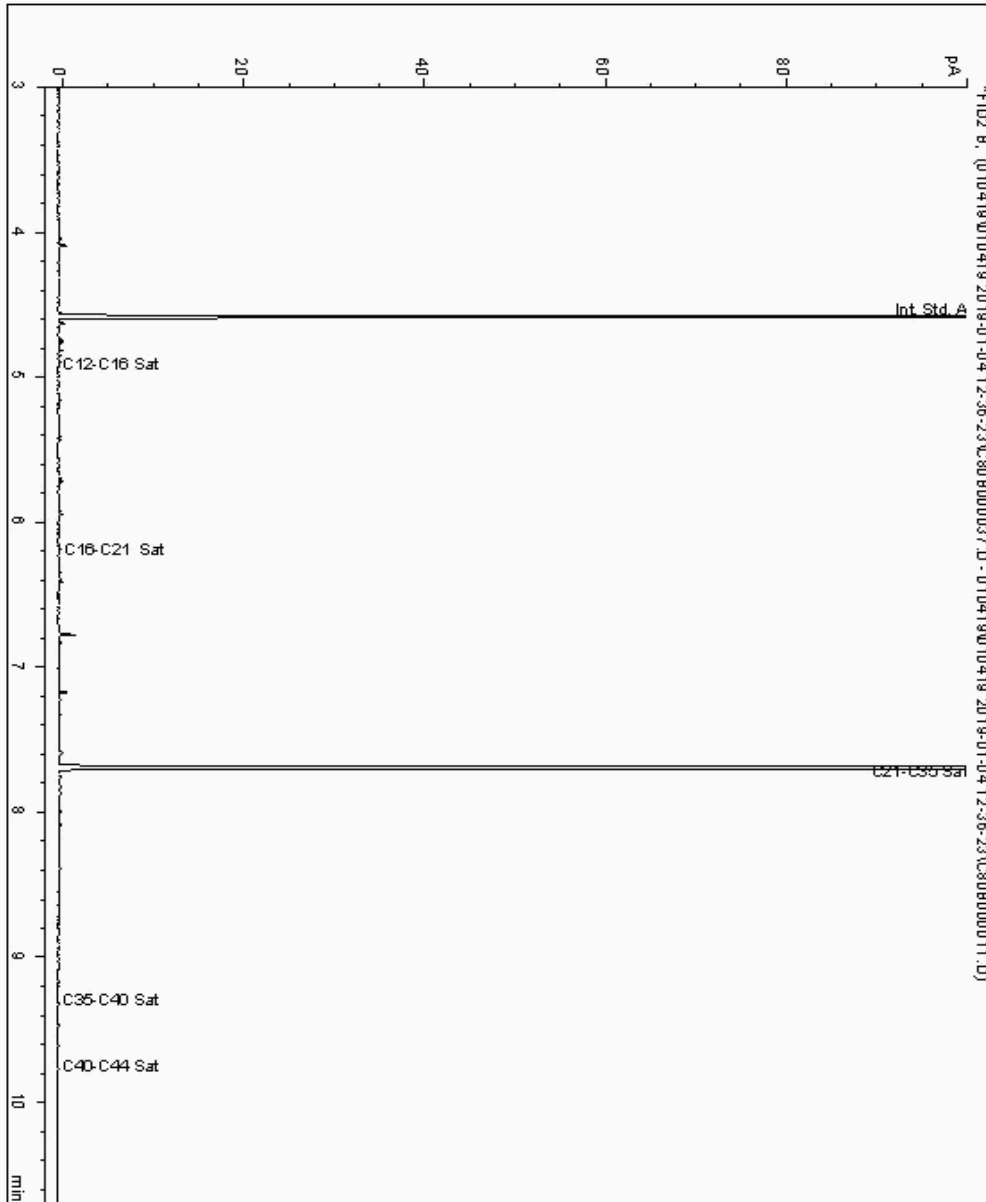
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19018372
Sample ID : BH203

Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867784-
Date Acquired : 04/01/19 21:15:17
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

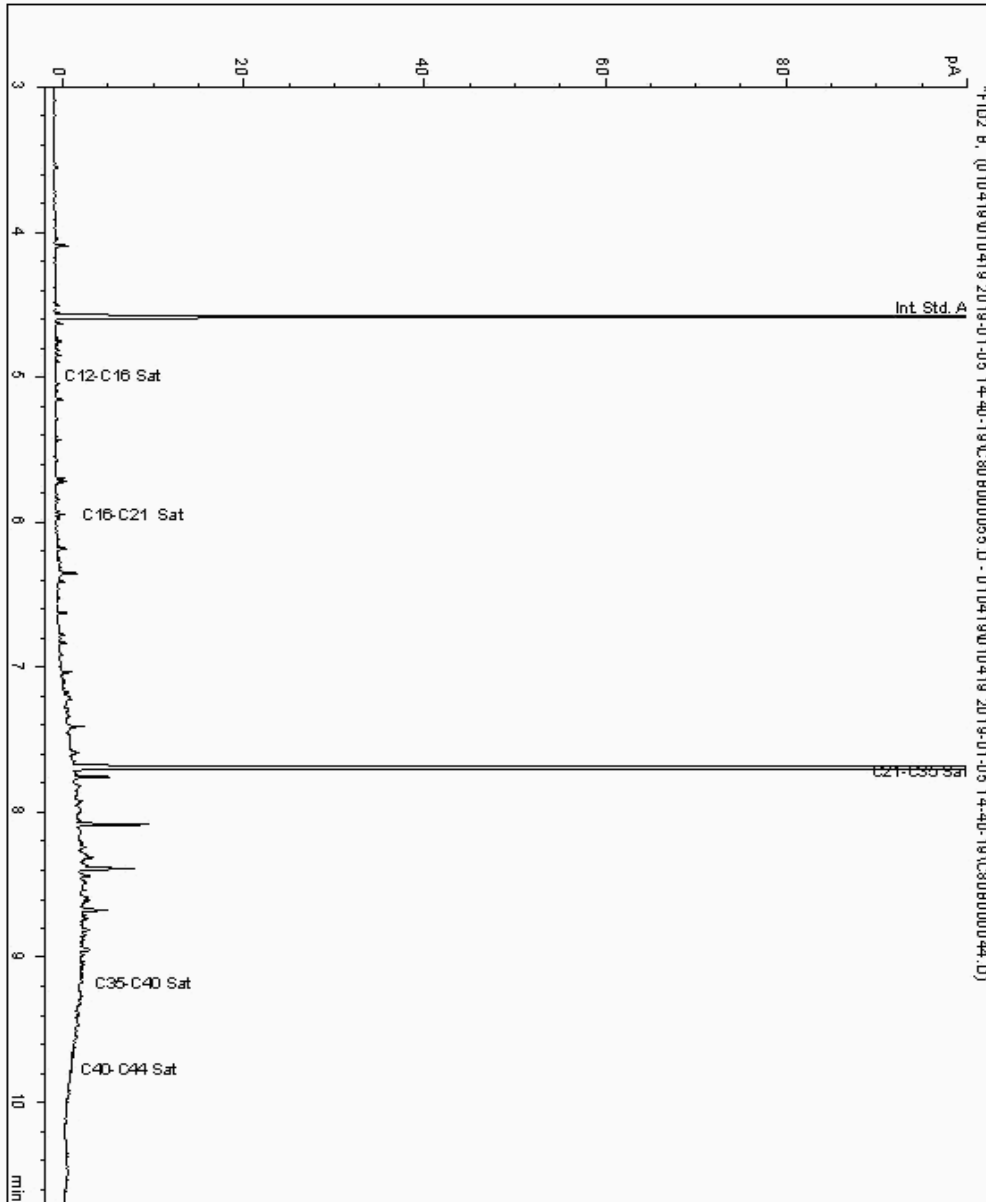
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19018510
Sample ID : BH210

Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868994-
Date Acquired : 05/01/19 19:11:56
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

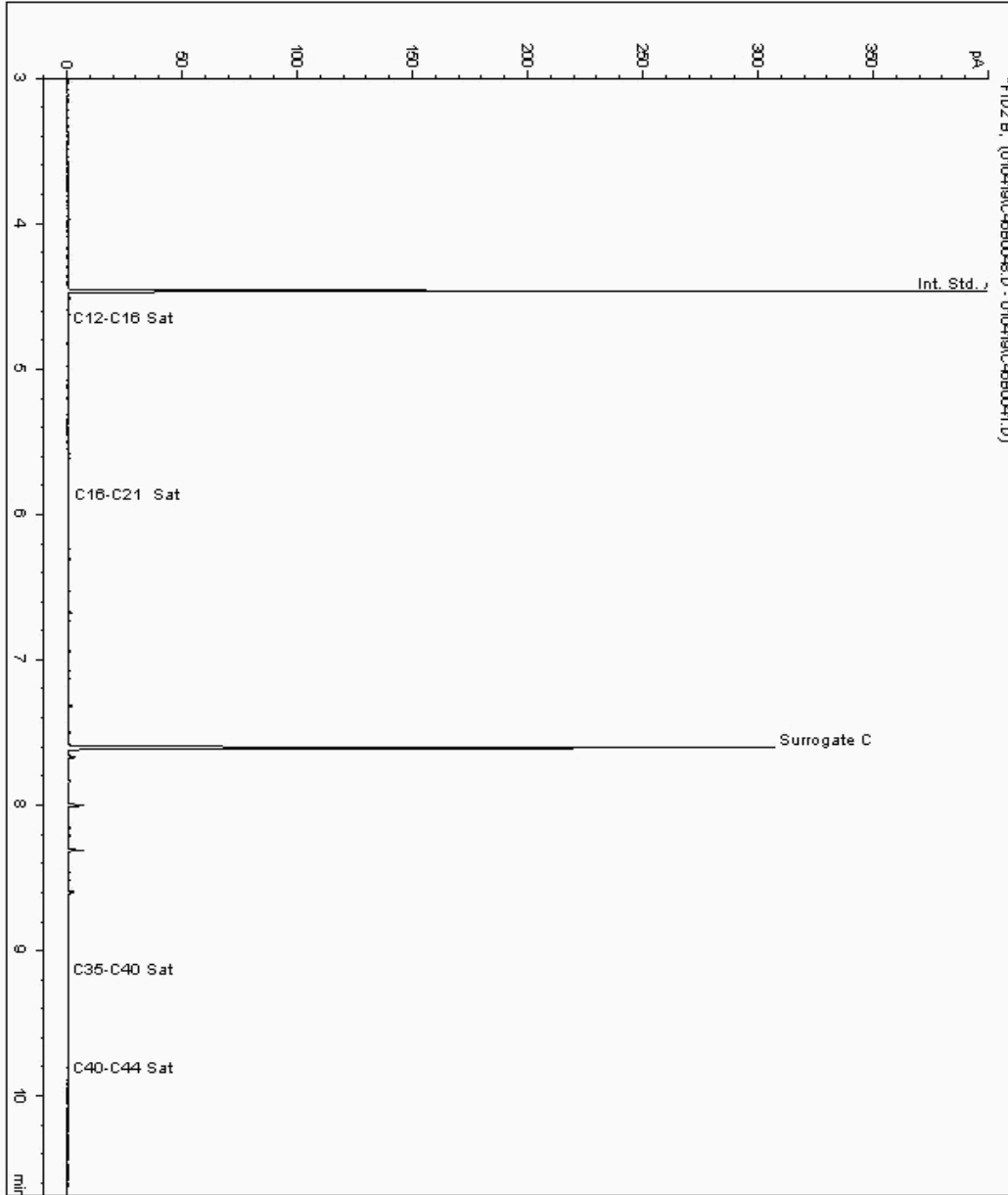
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19018662
Sample ID : BH210

Depth : 4.00 - 5.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869085-
Date Acquired : 05/01/2019 01:02:19 PM
Units : ppb
Dilution: BH210[4.00 - 5.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

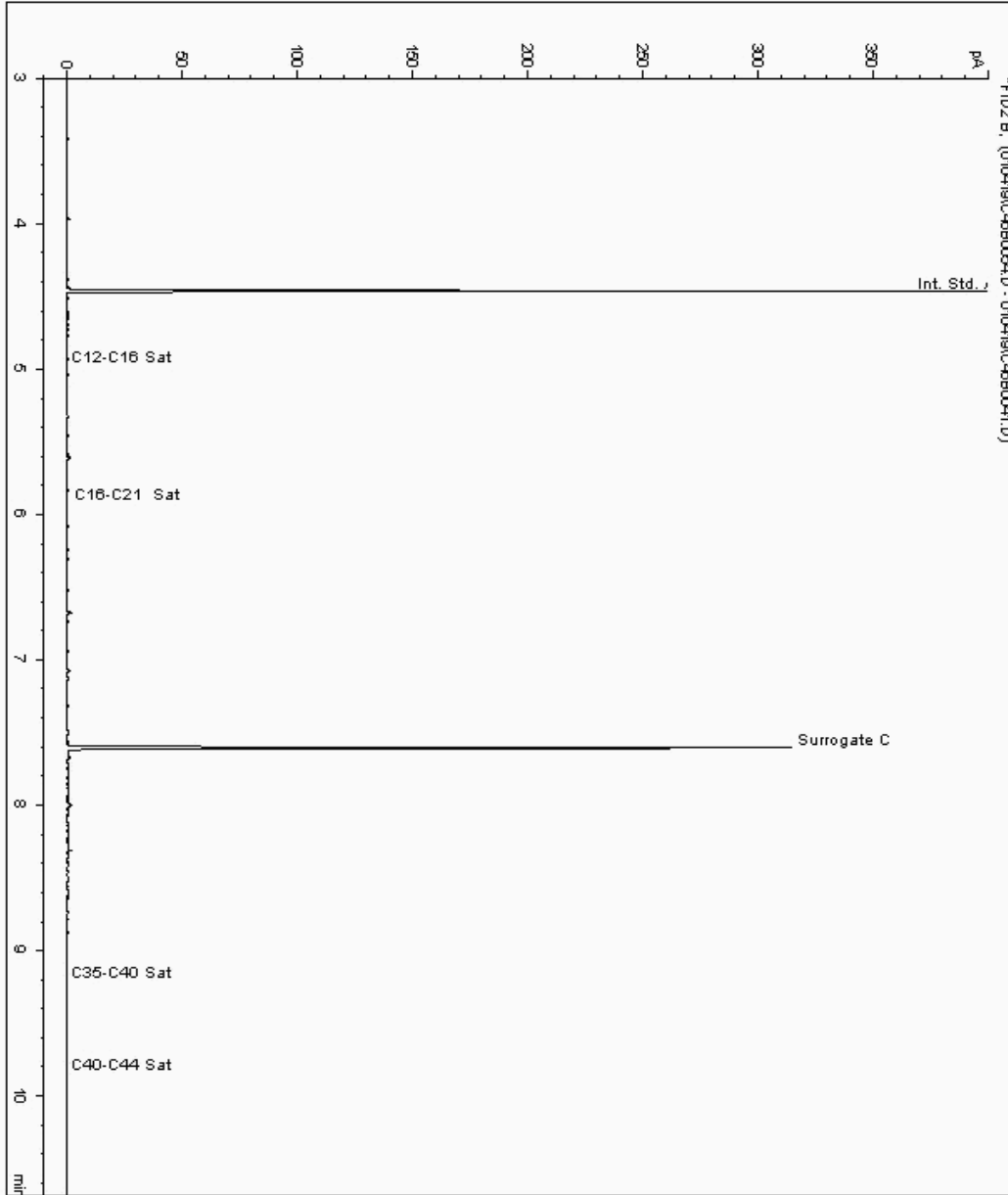
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19018791
Sample ID : BH210

Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868784-
Date Acquired : 05/01/2019 02:53:42 PM
Units : ppb
Dilution: BH210[1.00 - 2.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

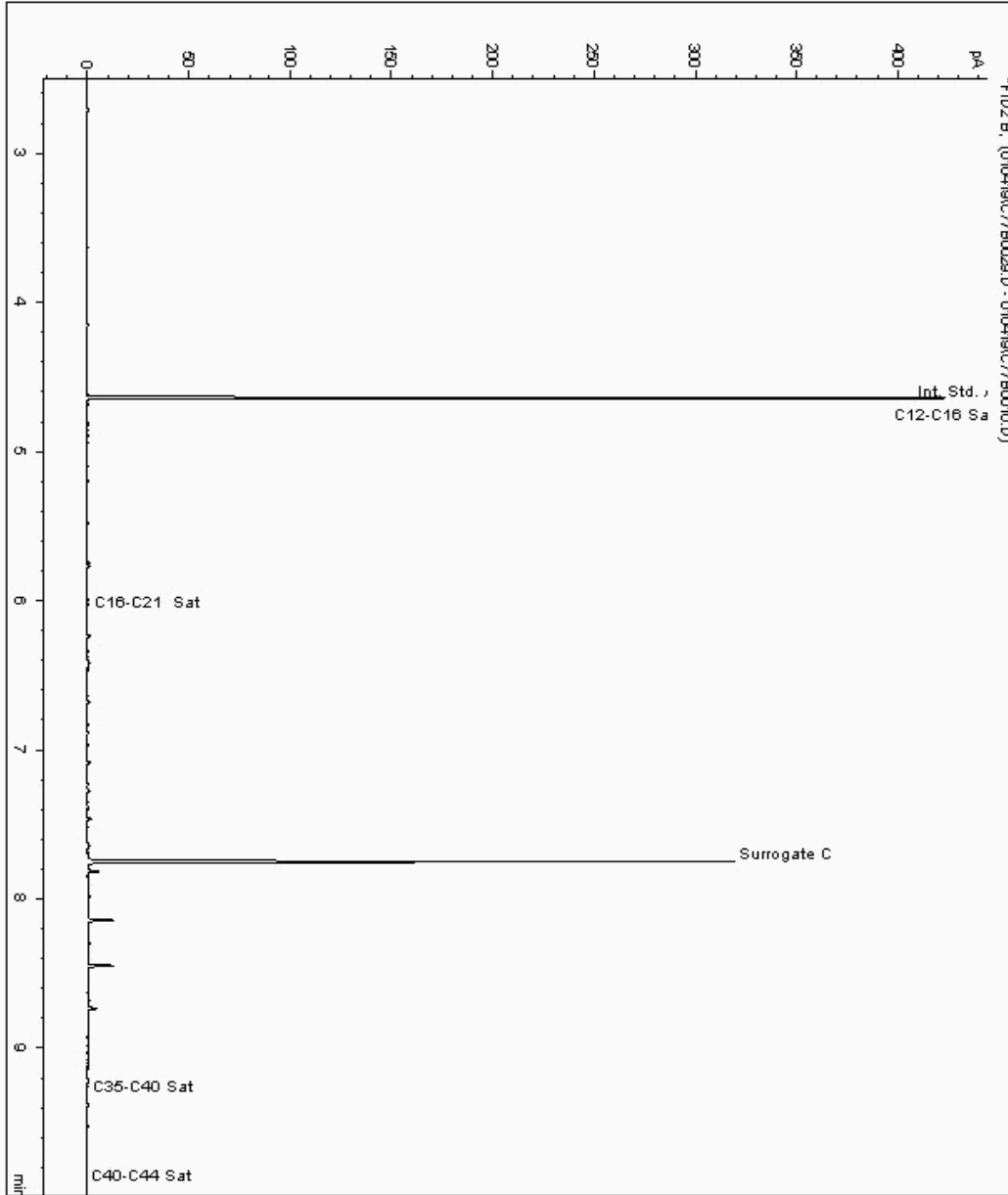
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19018884
Sample ID : BH203

Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867838-
 Date Acquired : 1/4/2019 5:25:02 PM
 Units : ppb
 Dilution :
 CF : 1
 Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

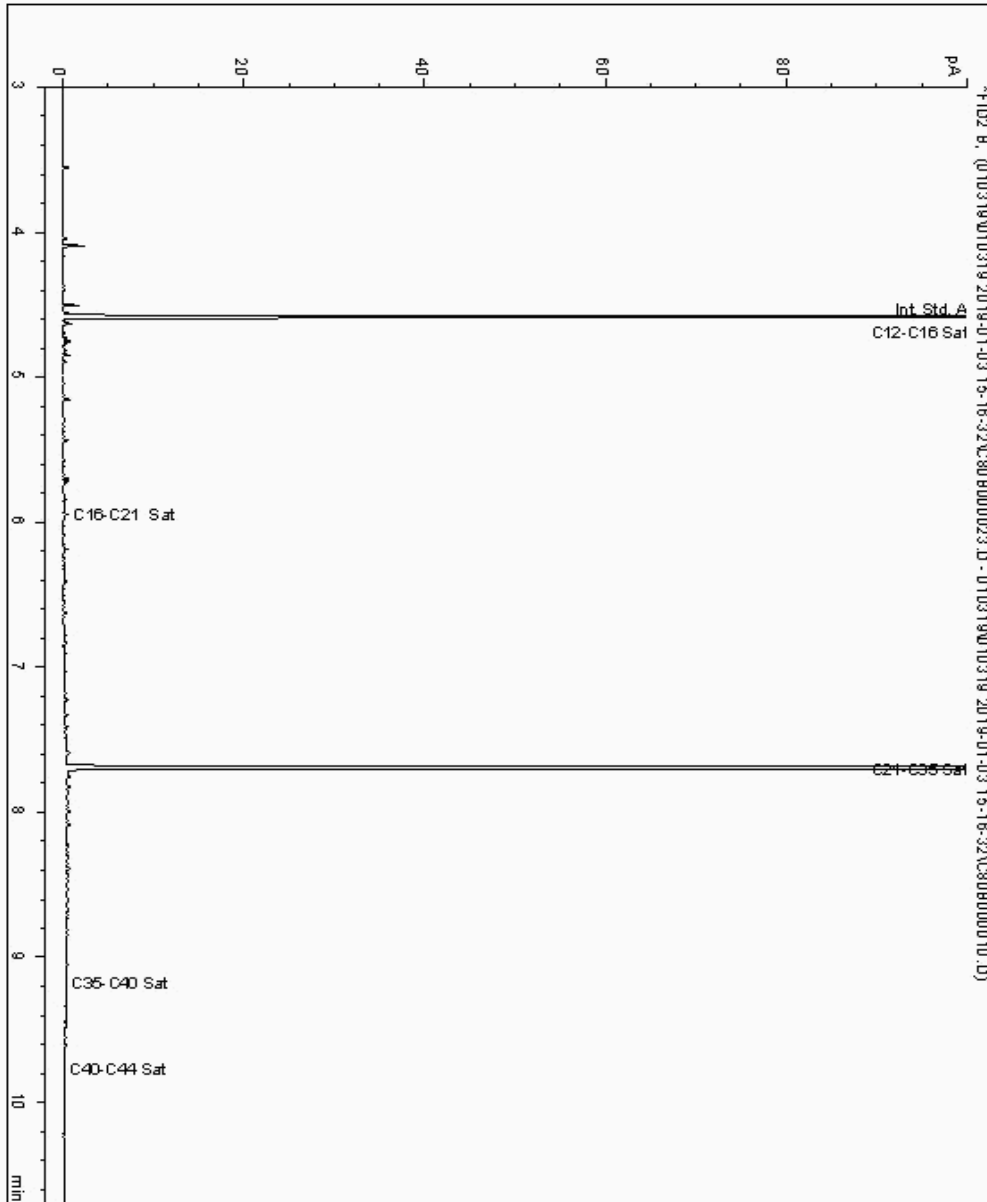
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020169
Sample ID : BH202

Depth : 8.00 - 9.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868409-
Date Acquired : 03/01/19 19:47:57
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

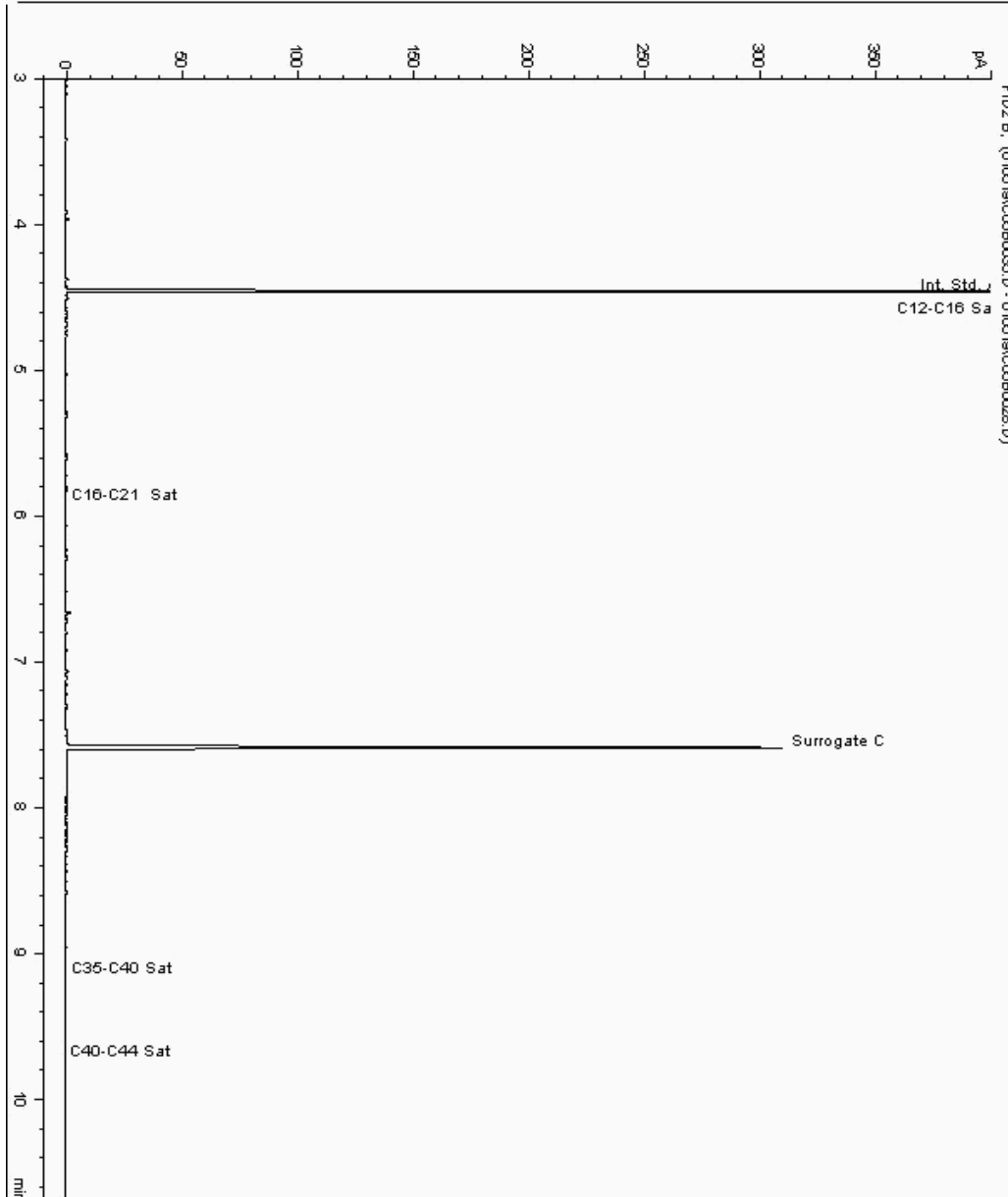
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020198
Sample ID : BH210

Depth : 8.00 - 10.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869158-
Date Acquired : 05/01/2019 19:33:34 PM
Units : ppb
Dilution: BH210[8.00 - 10.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

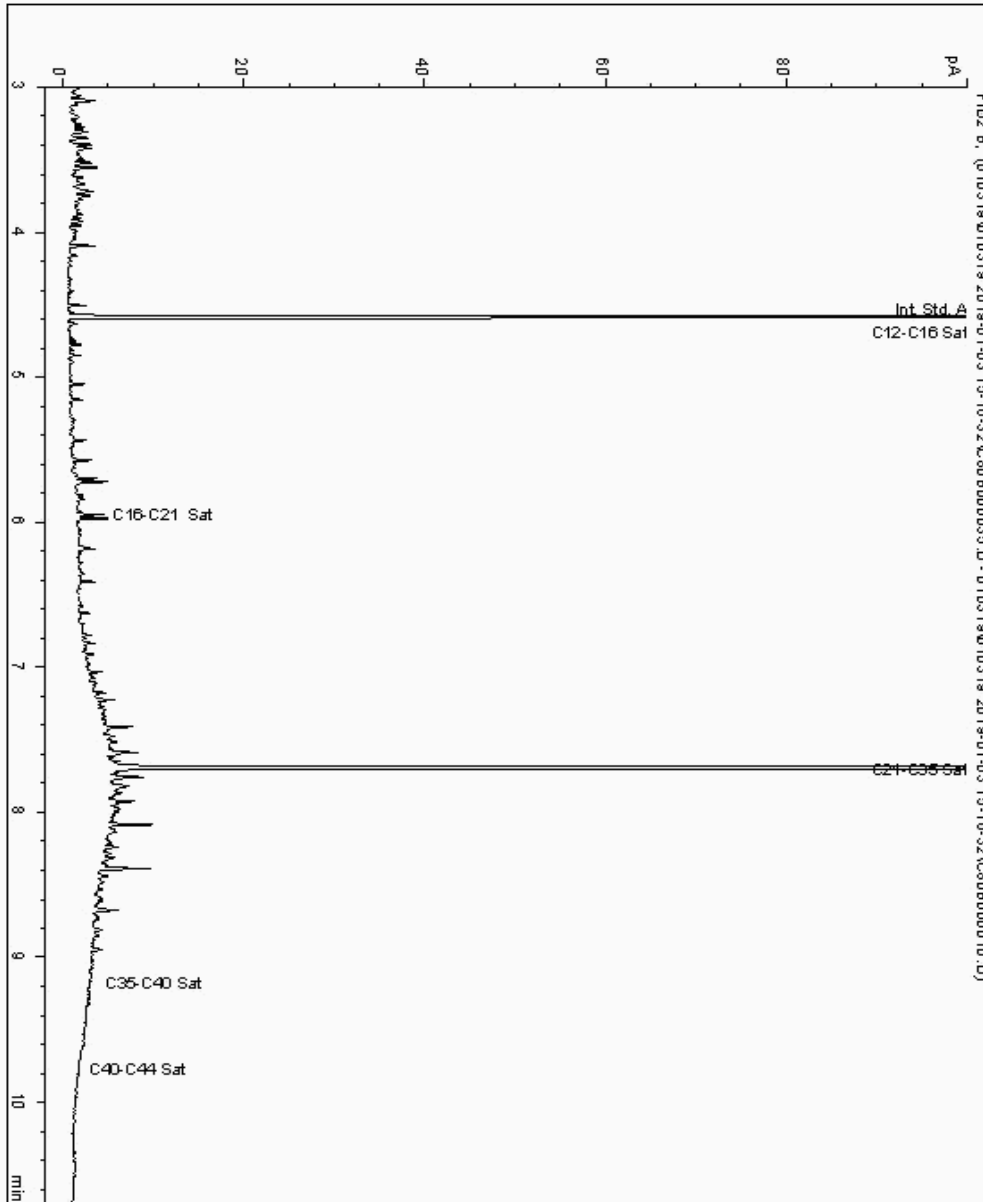
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020317
Sample ID : BH205

Depth : 1.00 - 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868079-
Date Acquired : 03/01/19 23:19:46
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

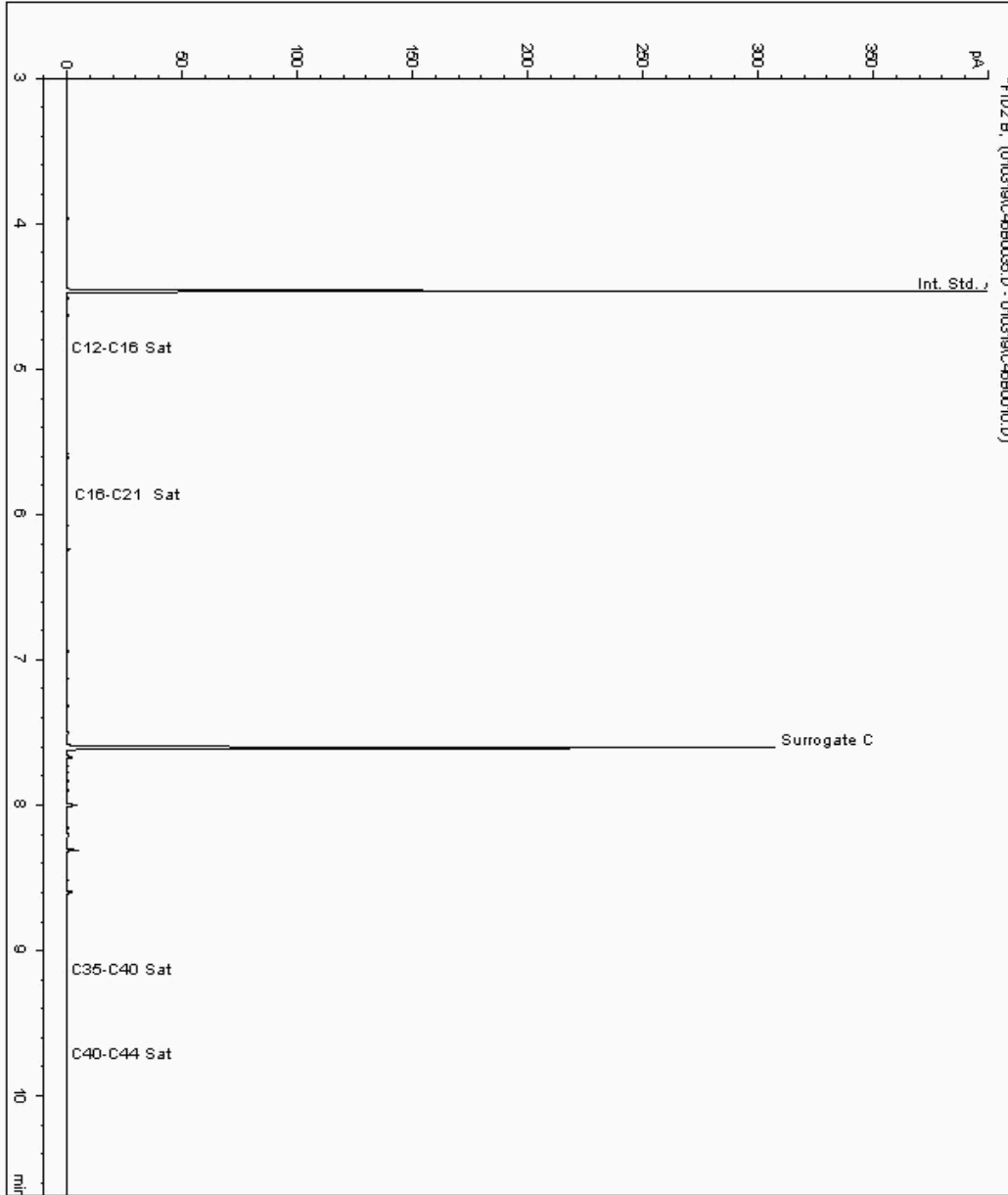
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020363
Sample ID : BH203

Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867931-
Date Acquired : 03/01/2019 19:10:43 PM
Units : ppb
Dilution: BH203[6.00 - 7.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

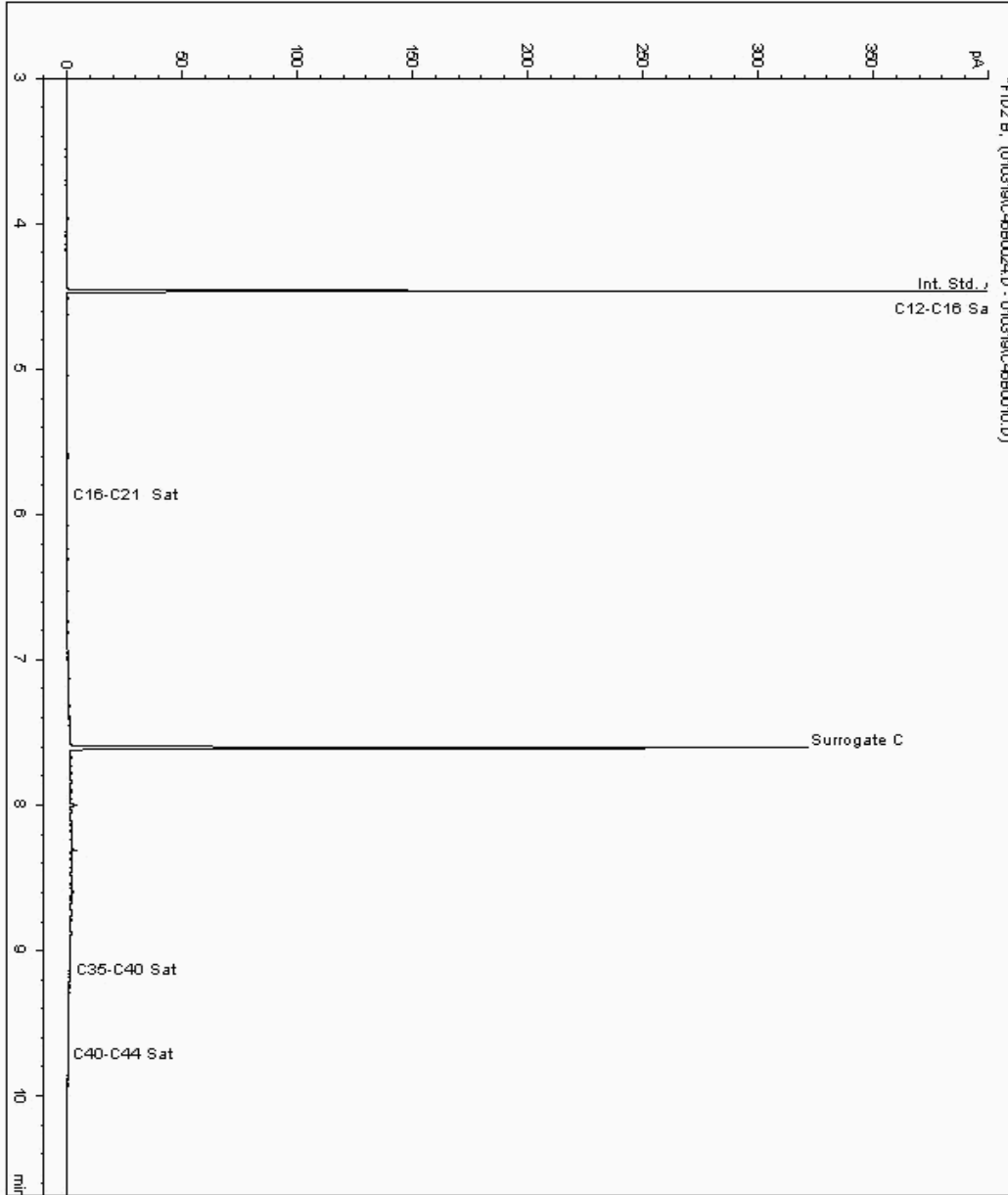
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020417
Sample ID : BH202

Depth : 5.00 - 5.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867675-
Date Acquired : 03/01/2019 15:49:10 PM
Units : ppb
Dilution: BH202[5.00 - 5.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

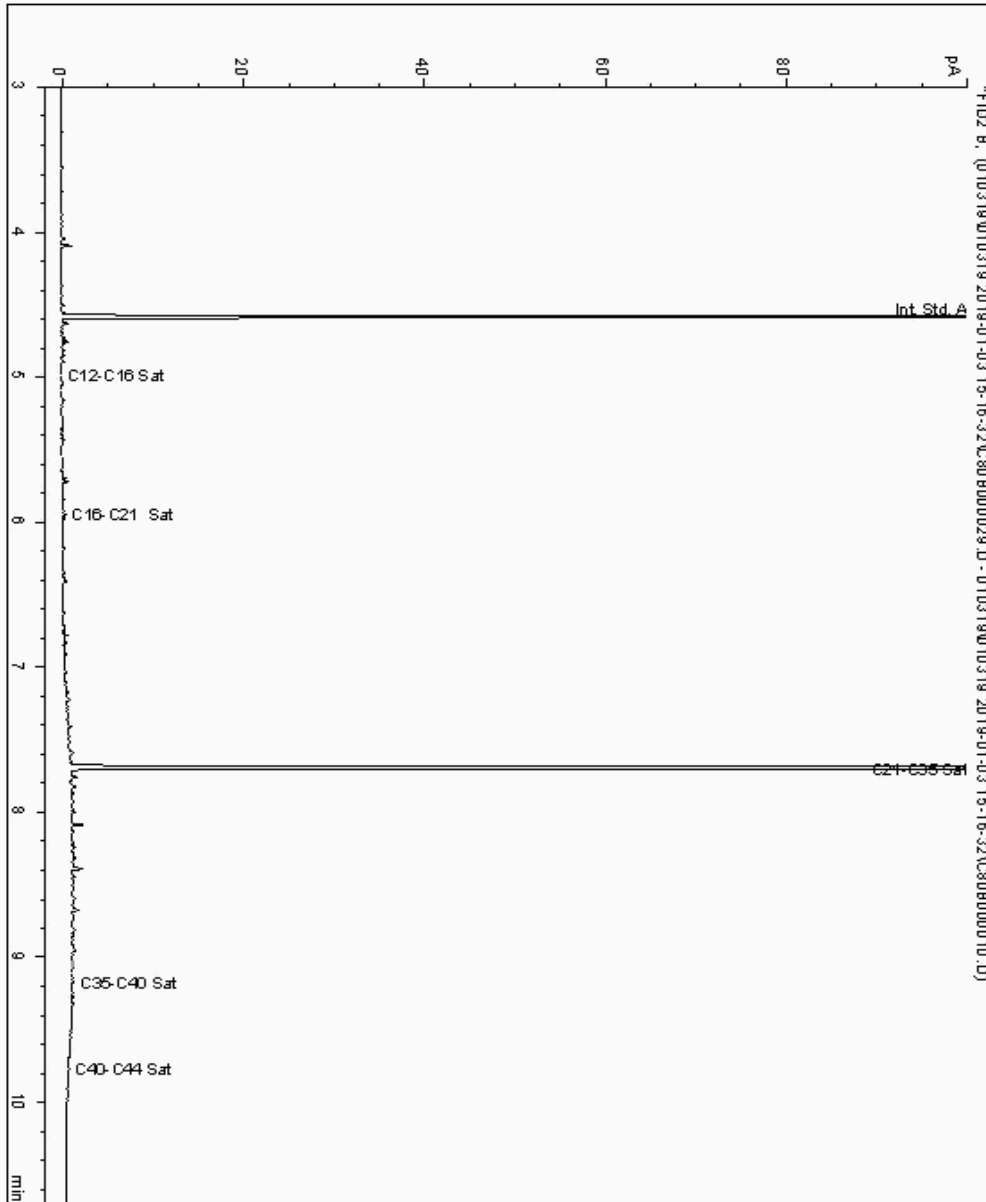
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020423
Sample ID : BH205

Depth : 5.50 - 7.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868253-
Date Acquired : 03/01/19 21:37:29
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

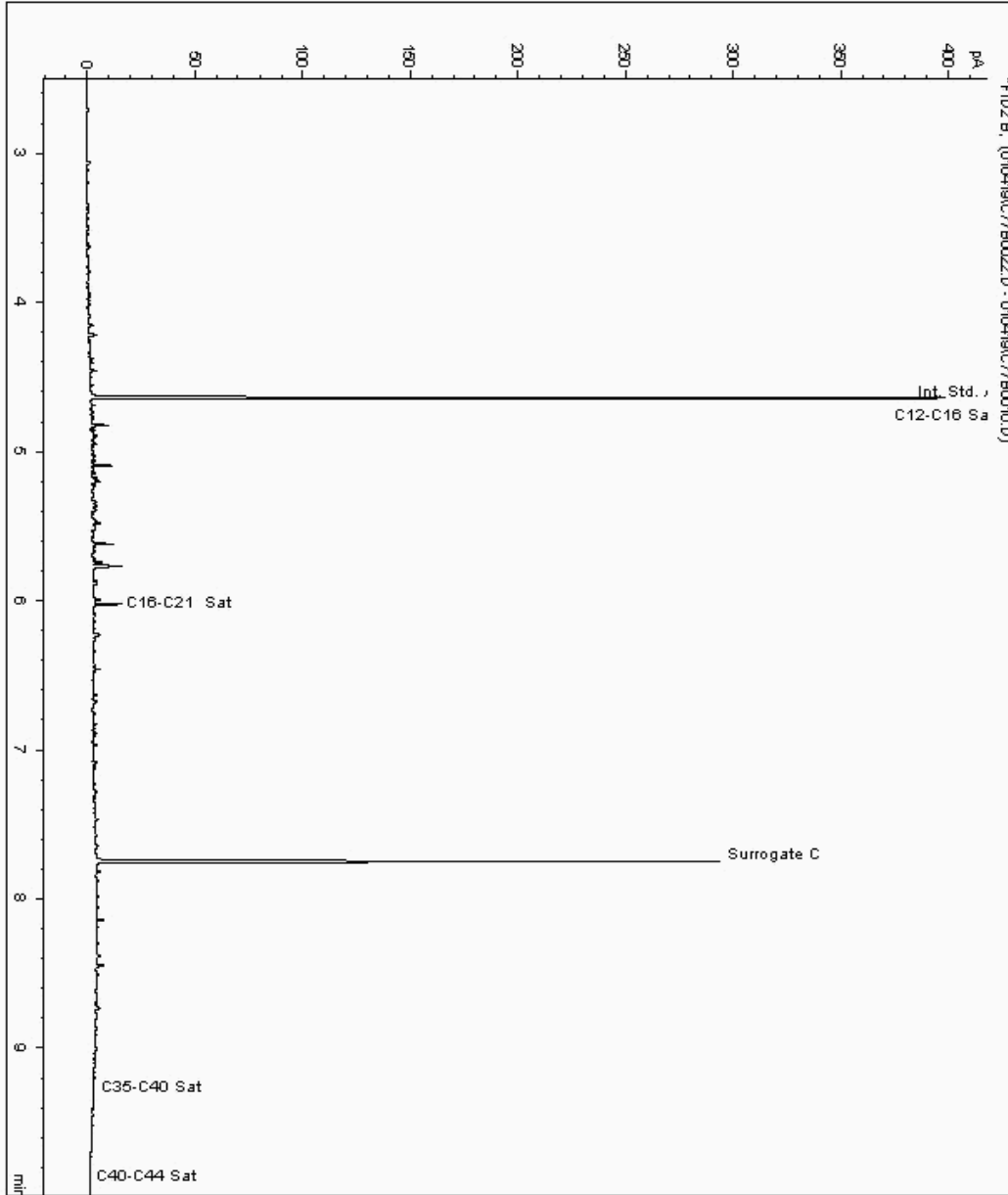
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021040
Sample ID : BH205

Depth : 0.00 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868000-
Date Acquired : 1/4/2019 3:31:04 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

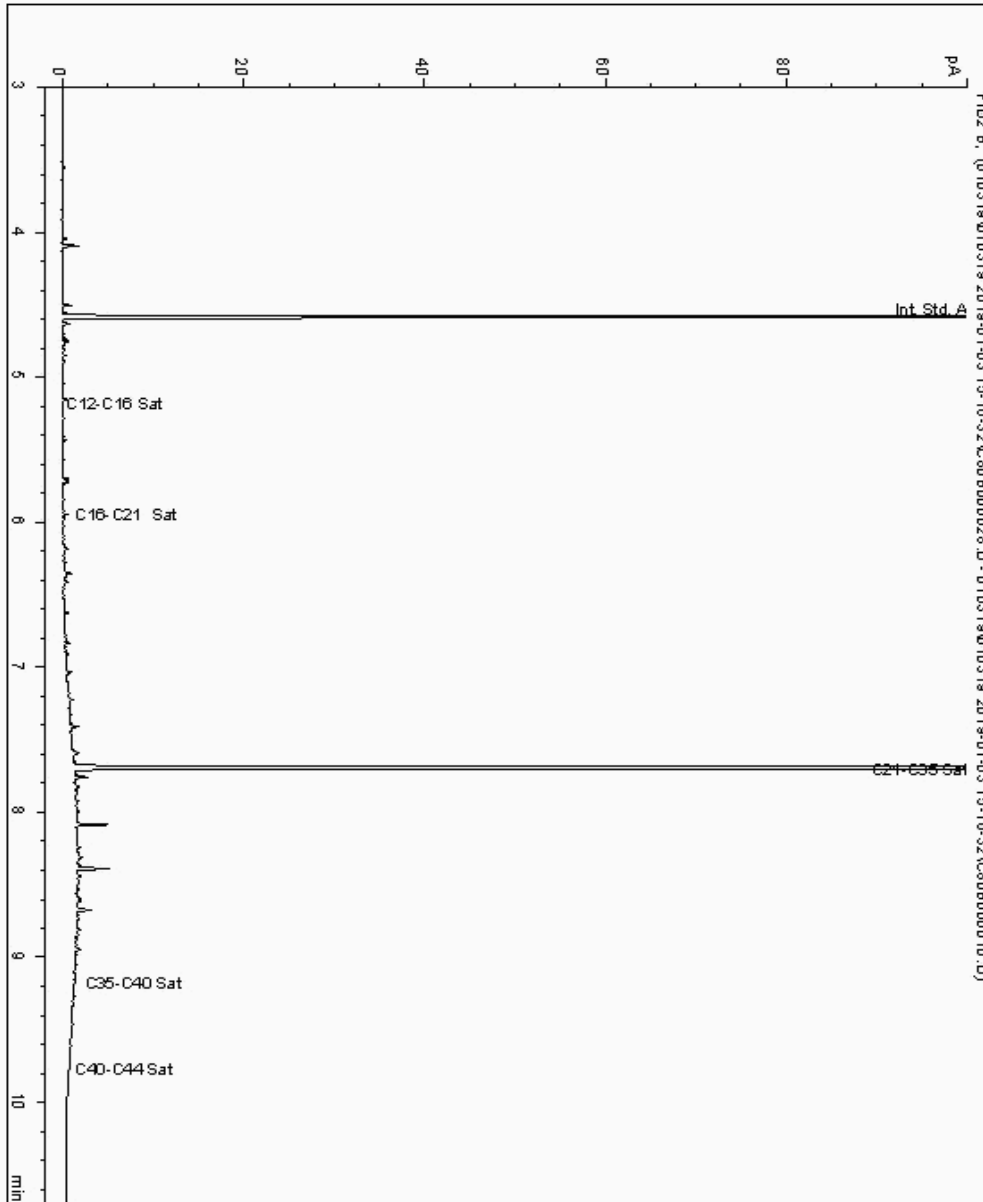
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021079
Sample ID : BH202

Depth : 7.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867702-
Date Acquired : 03/01/19 21:18:00
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

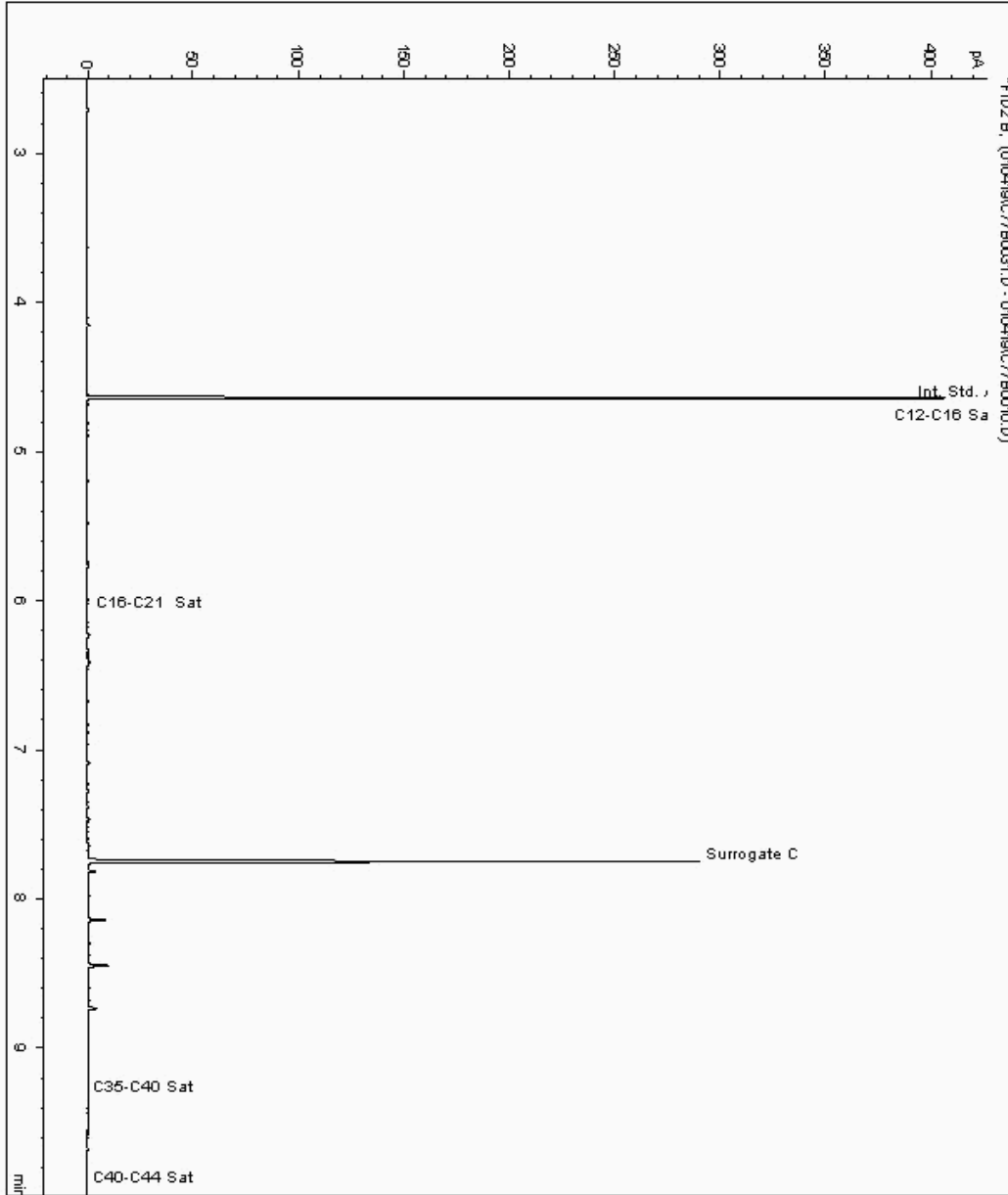
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021141
Sample ID : BH203

Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867866-
Date Acquired : 1/4/2019 5:56:27 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

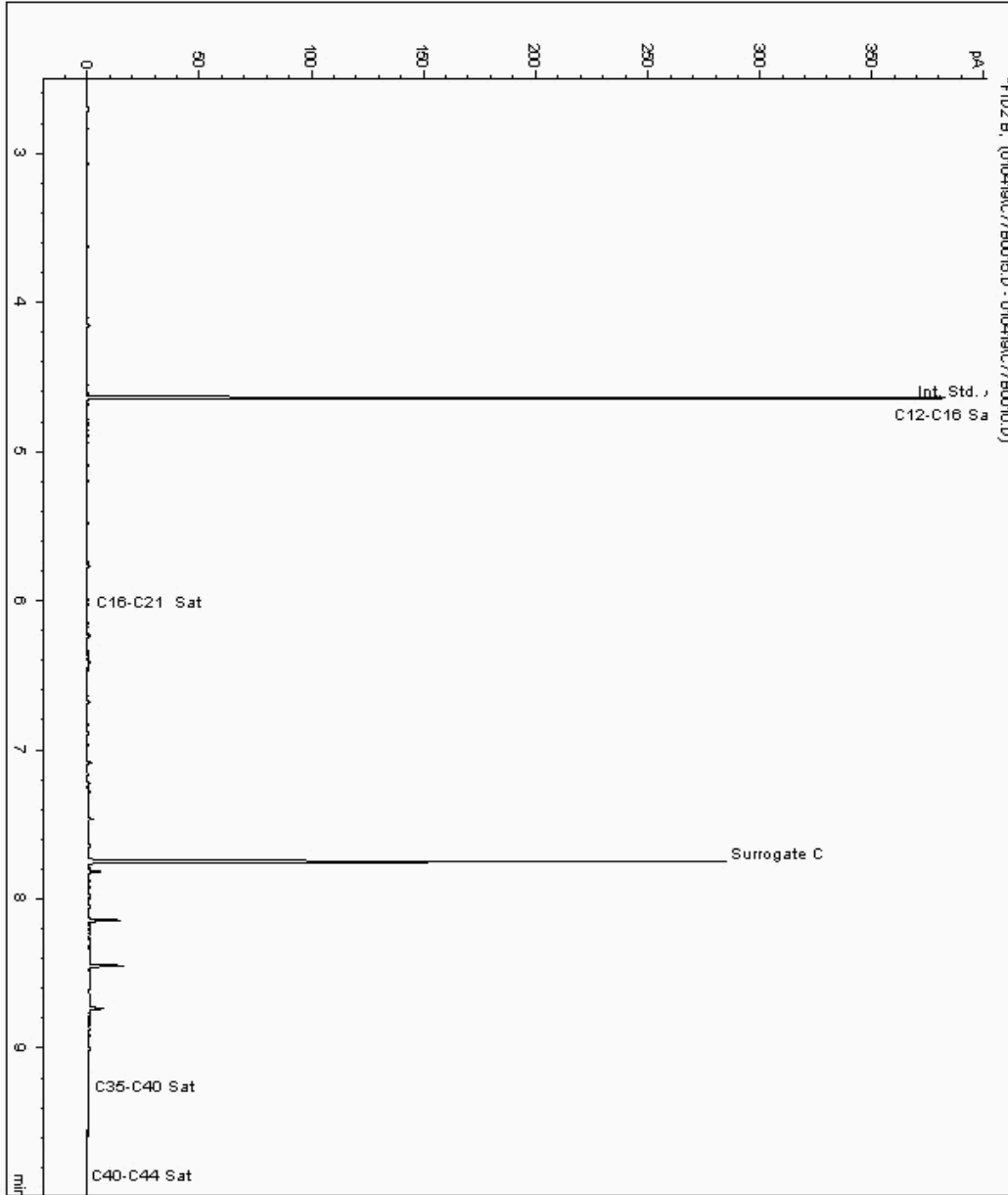
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021143
Sample ID : BH202

Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867651-
Date Acquired : 1/4/2019 1:37:02 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

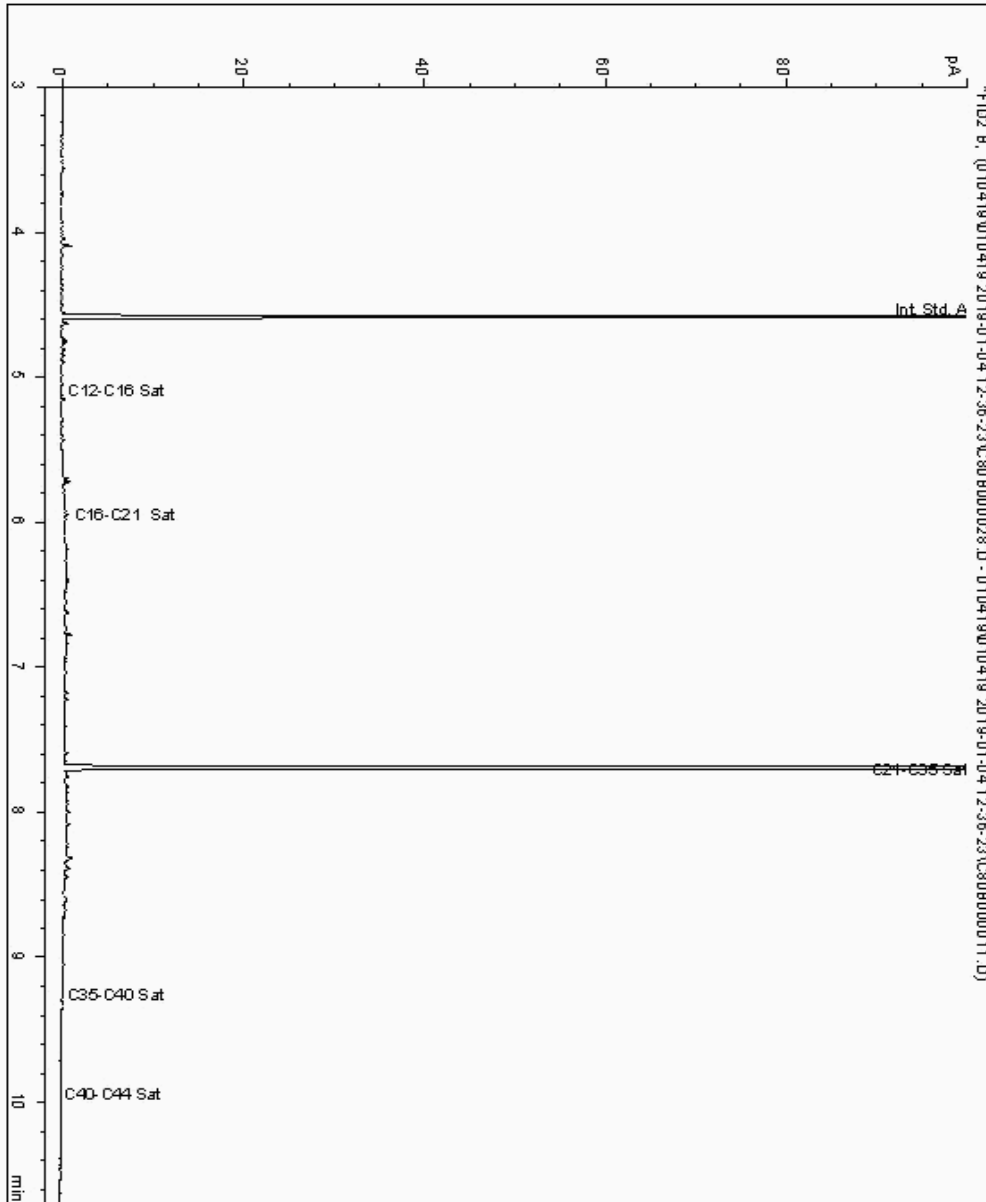
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021224
Sample ID : BH201

Depth : 0.00 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867127-
Date Acquired : 04/01/19 18:40:43
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

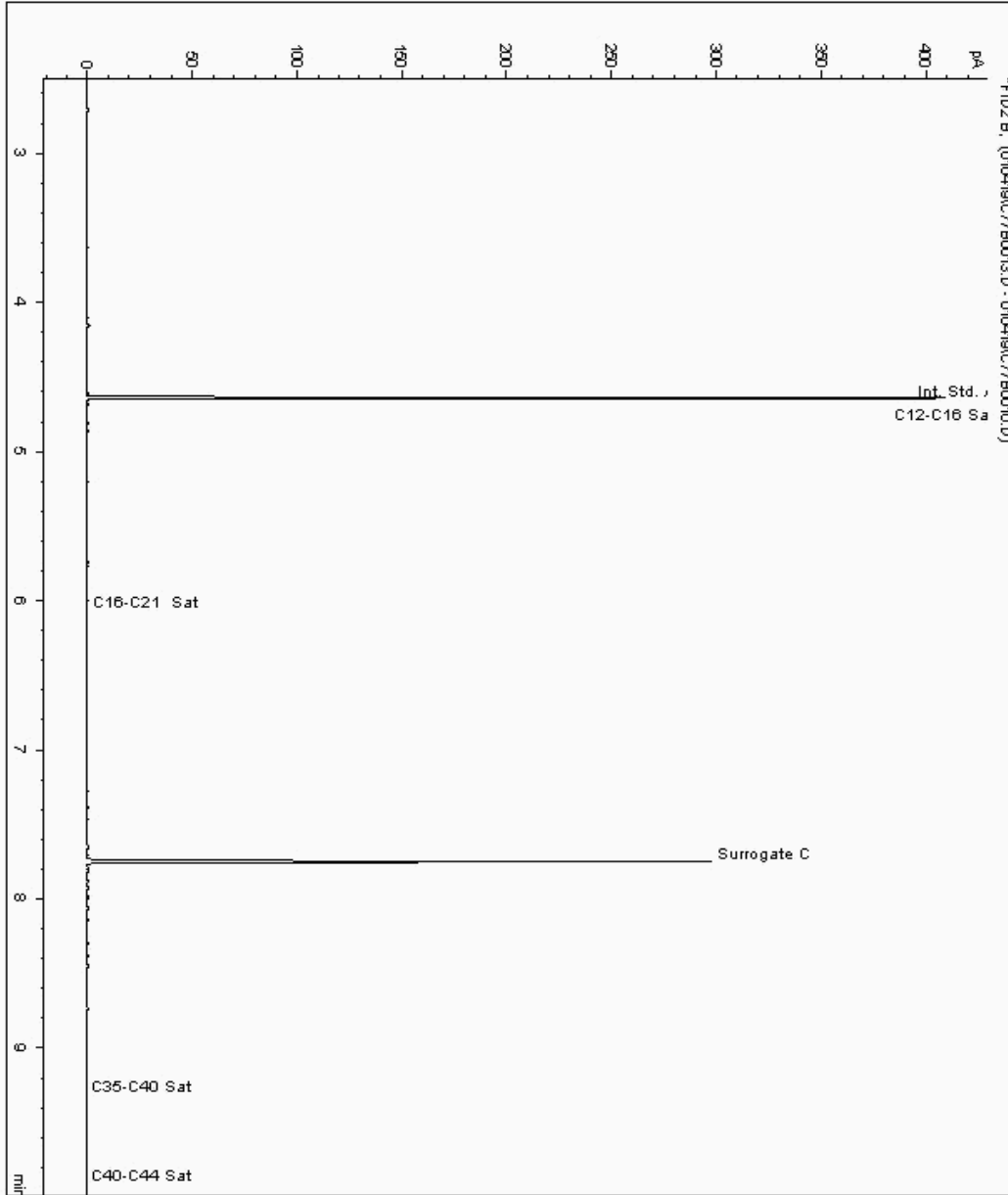
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021249
Sample ID : BH205

Depth : 8.00 - 10.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868365-
Date Acquired : 1/4/2019 12:57:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

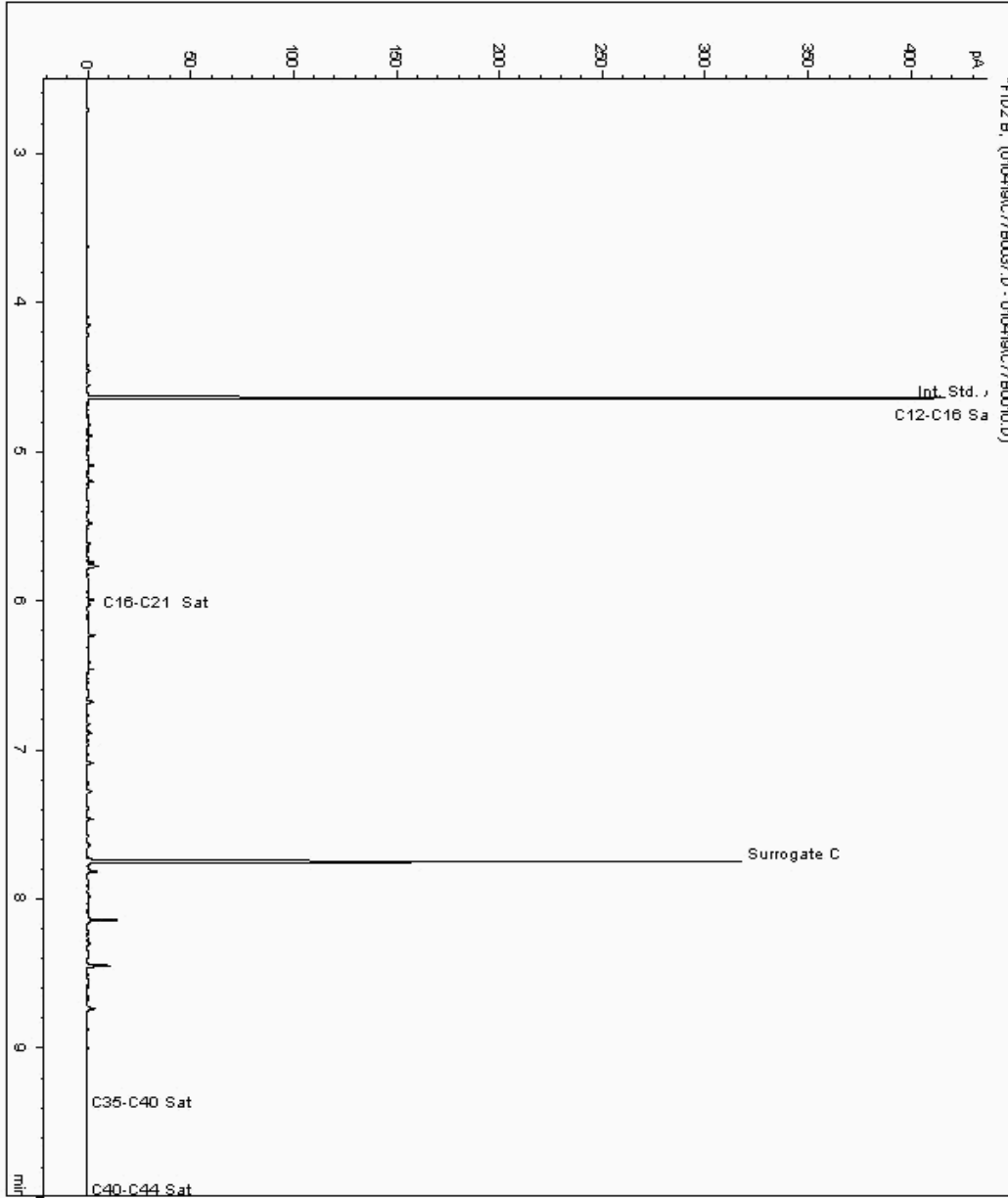
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021335
Sample ID : BH202

Depth : 0.50 - 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867565-
Date Acquired : 1/4/2019 7:38:29 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

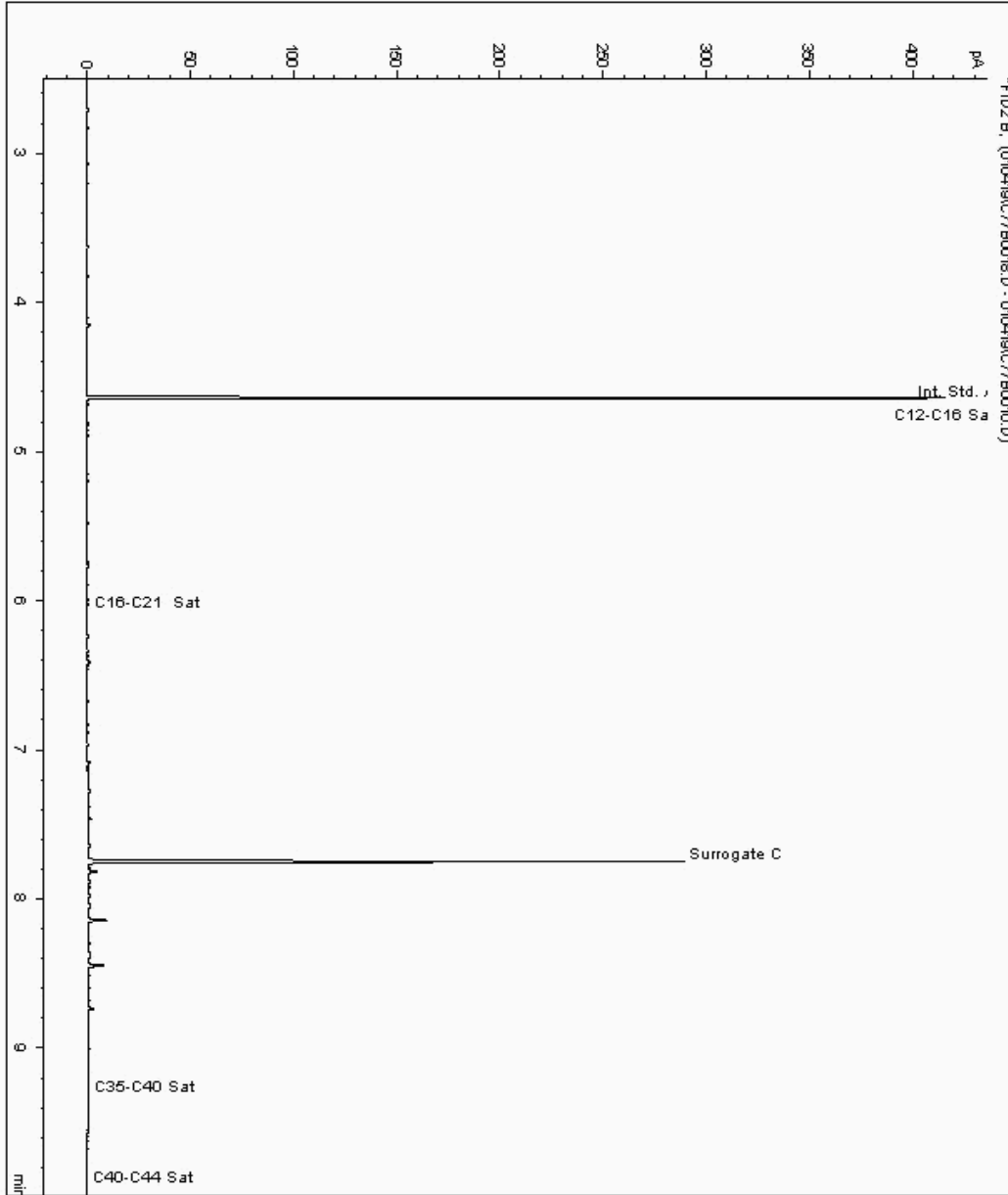
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021397
Sample ID : BH205

Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868202-
Date Acquired : 1/4/2019 2:28:11 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

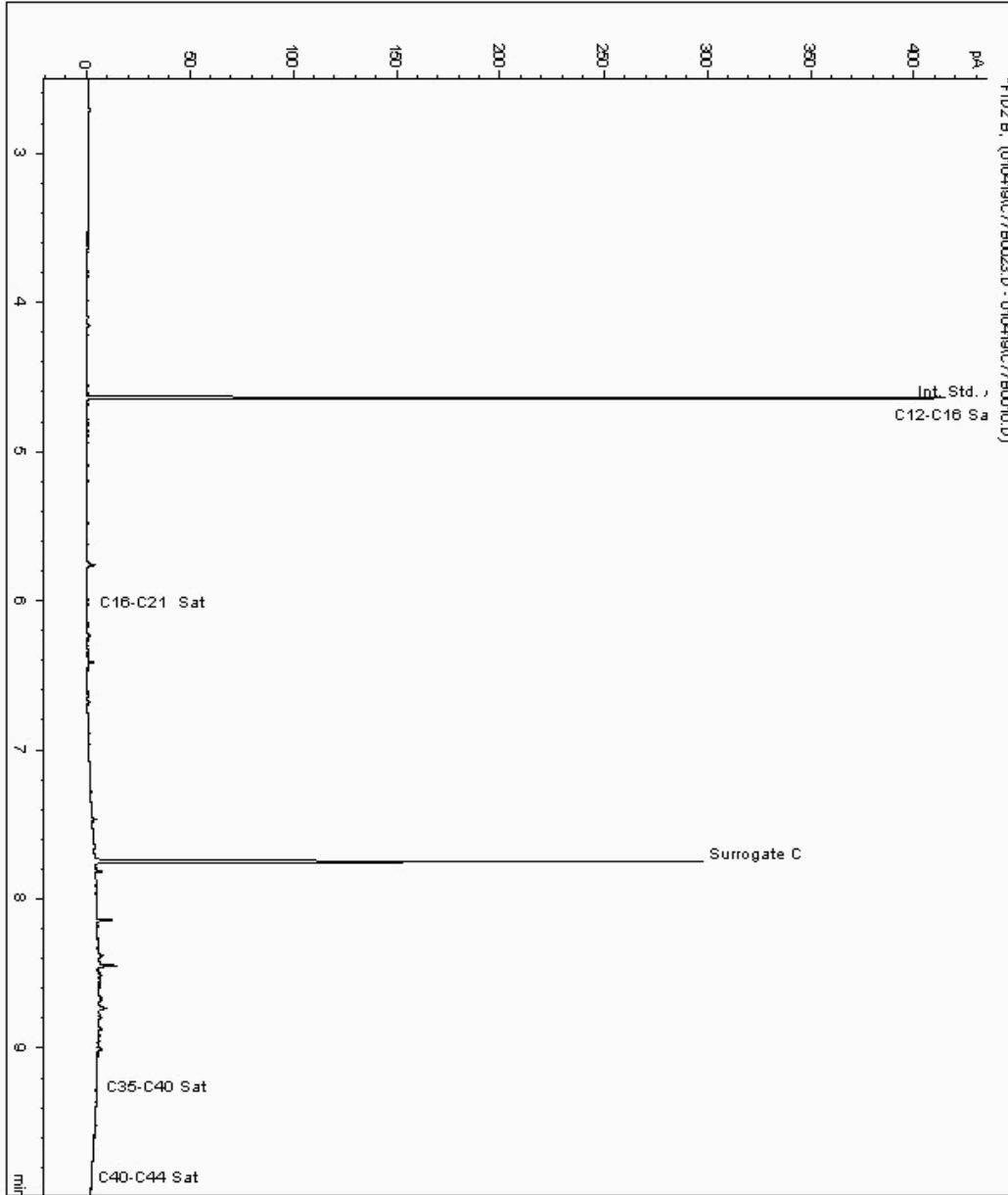
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021425
Sample ID : BH201

Depth : 6.00 - 7.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867393-
Date Acquired : 1/4/2019 3:50:43 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

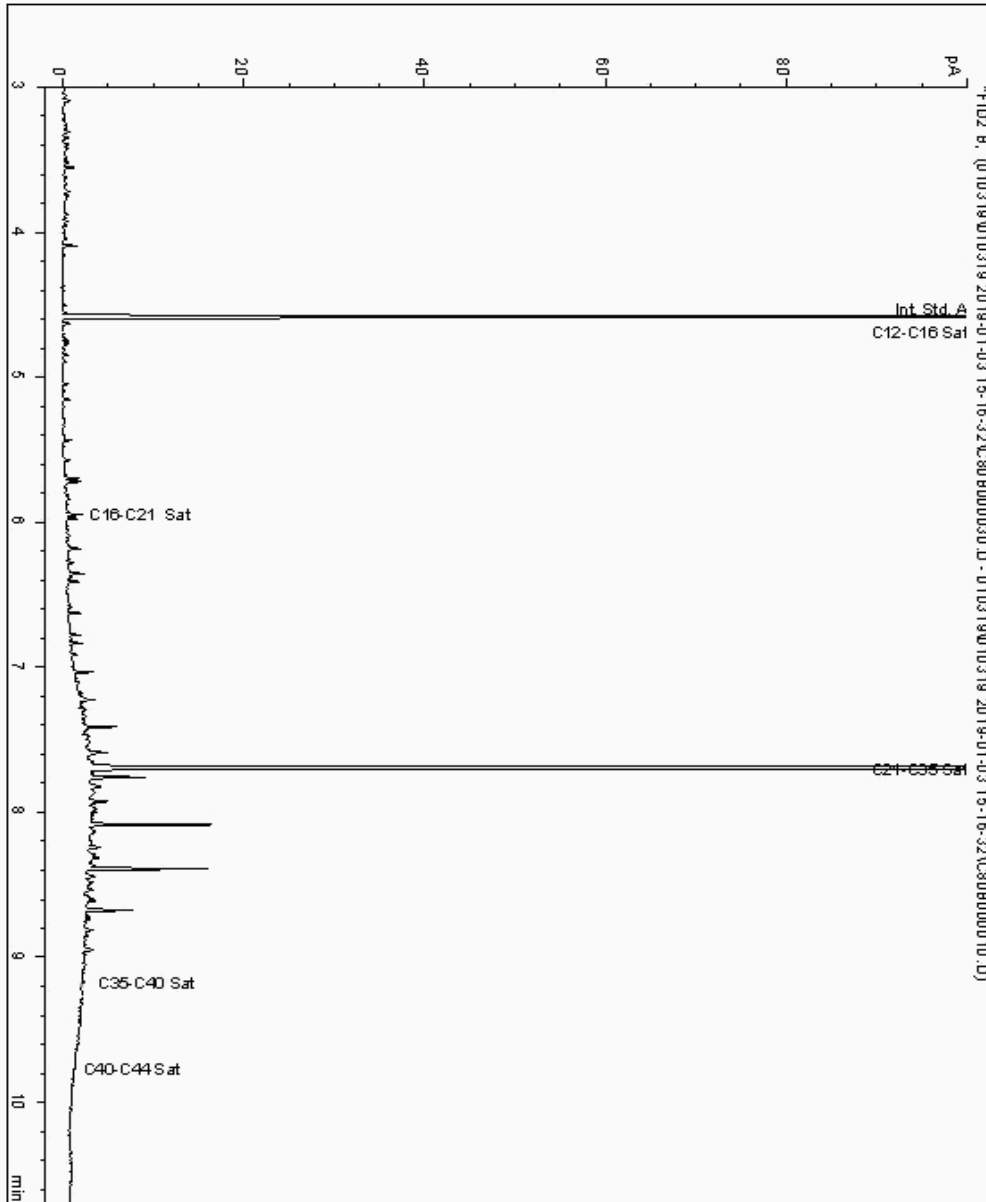
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021504
Sample ID : BH205

Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868177-
Date Acquired : 03/01/19 21:57:06
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

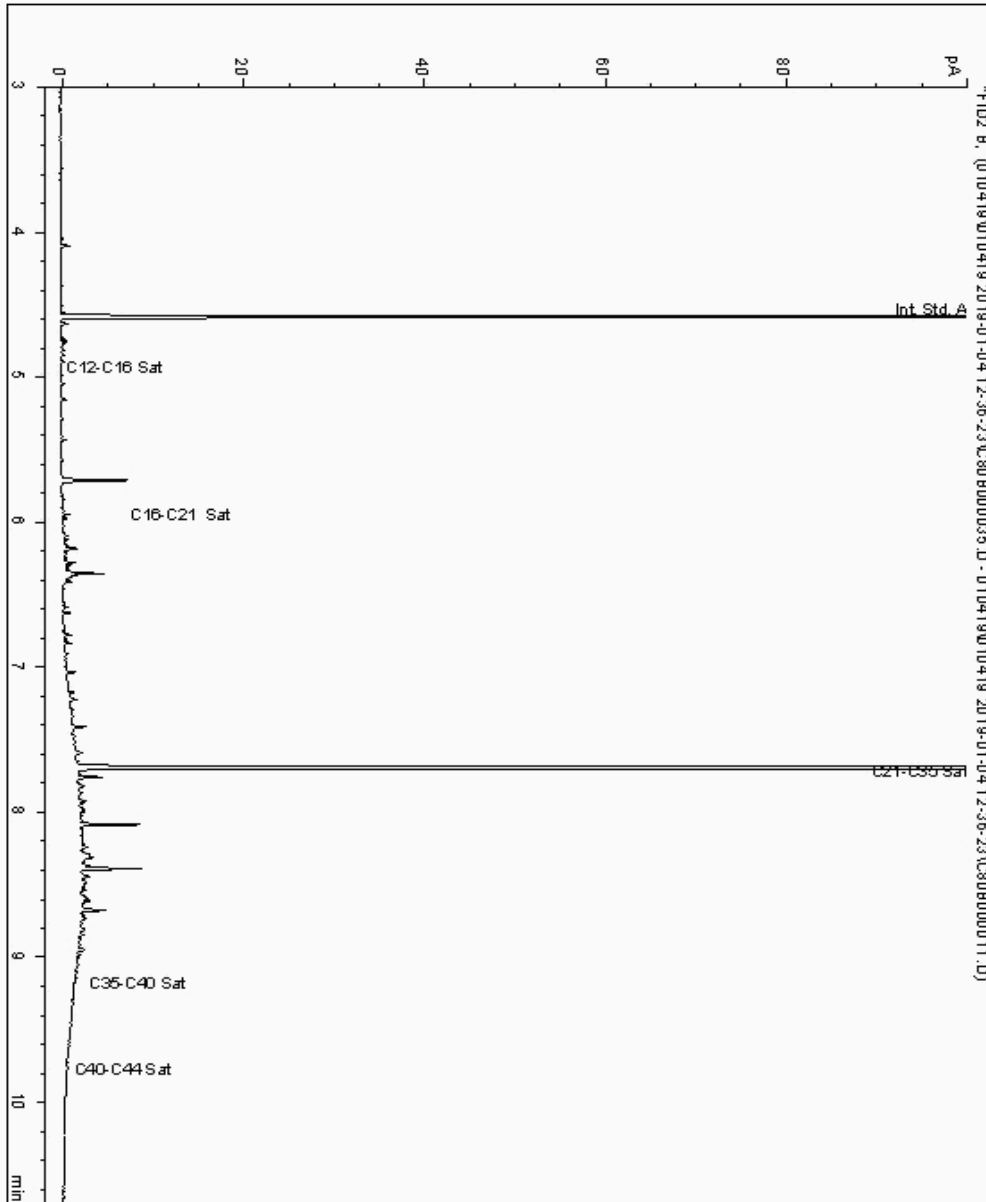
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021539
Sample ID : BH201

Depth : 5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867318-
Date Acquired : 04/01/19 20:43:07
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

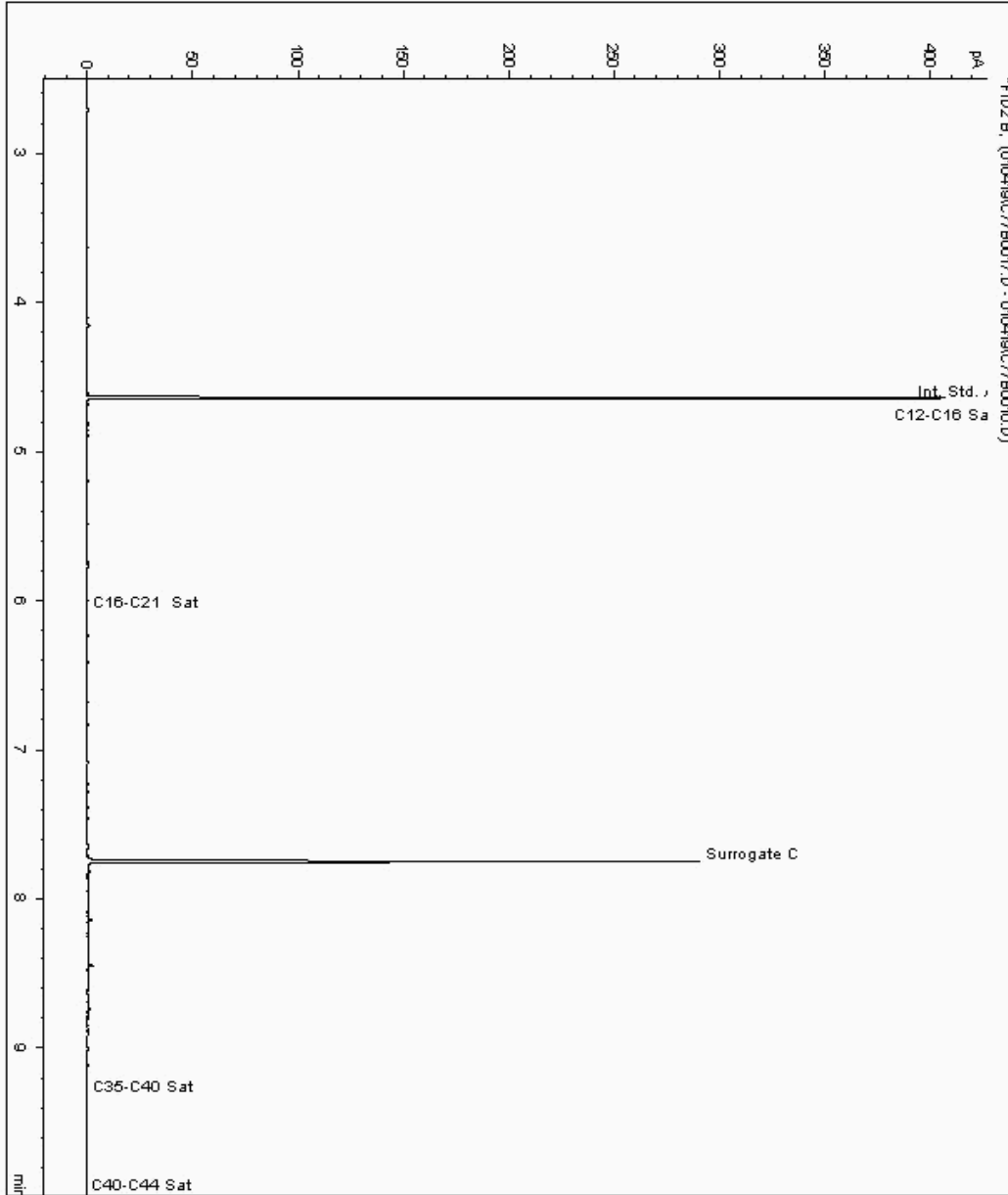
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021608
Sample ID : BH201

Depth : 7.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867420-
Date Acquired : 1/4/2019 2:08:32 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

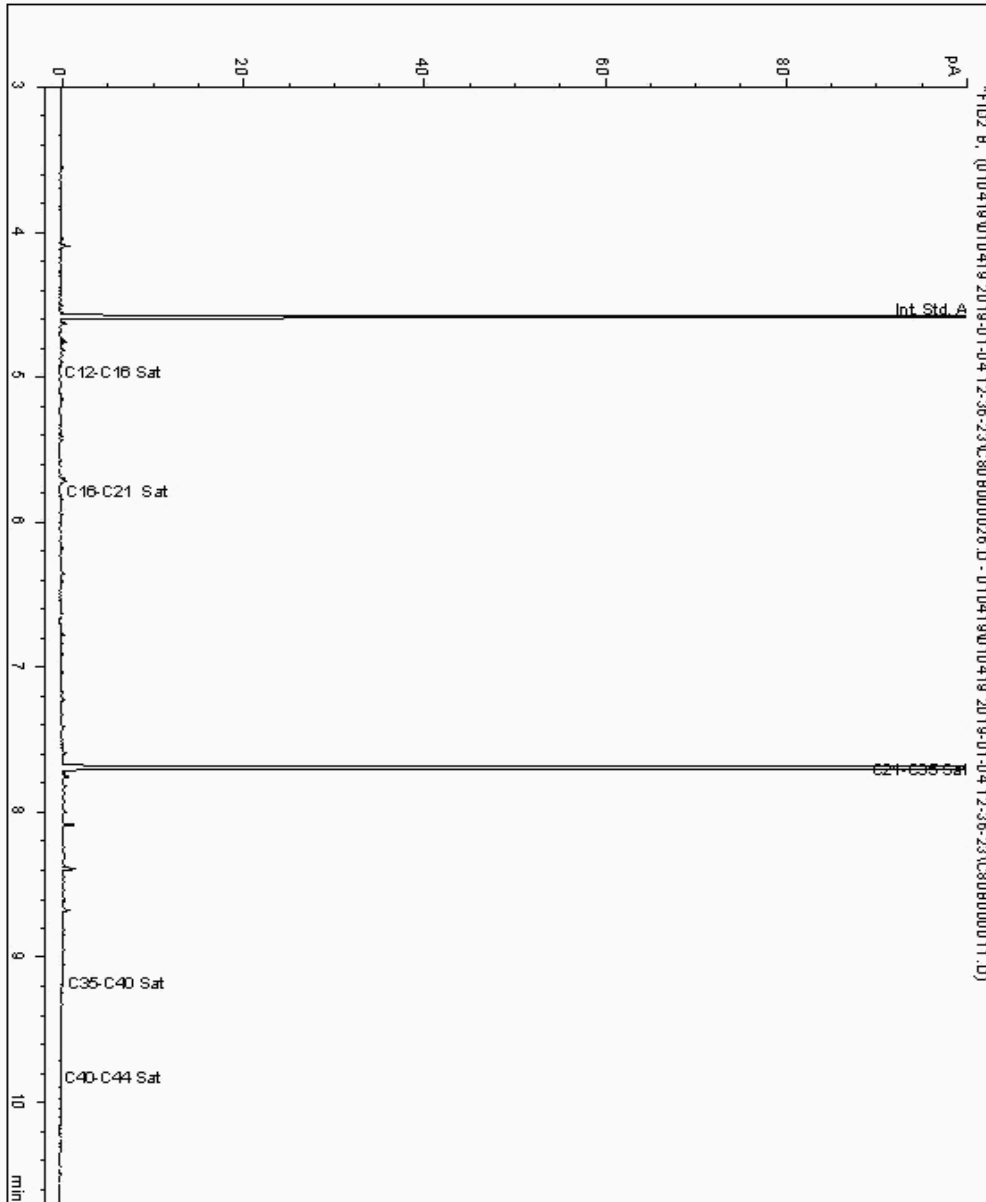
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021692
Sample ID : BH201

Depth : 8.00 - 9.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867444-
Date Acquired : 04/01/19 18:01:15
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

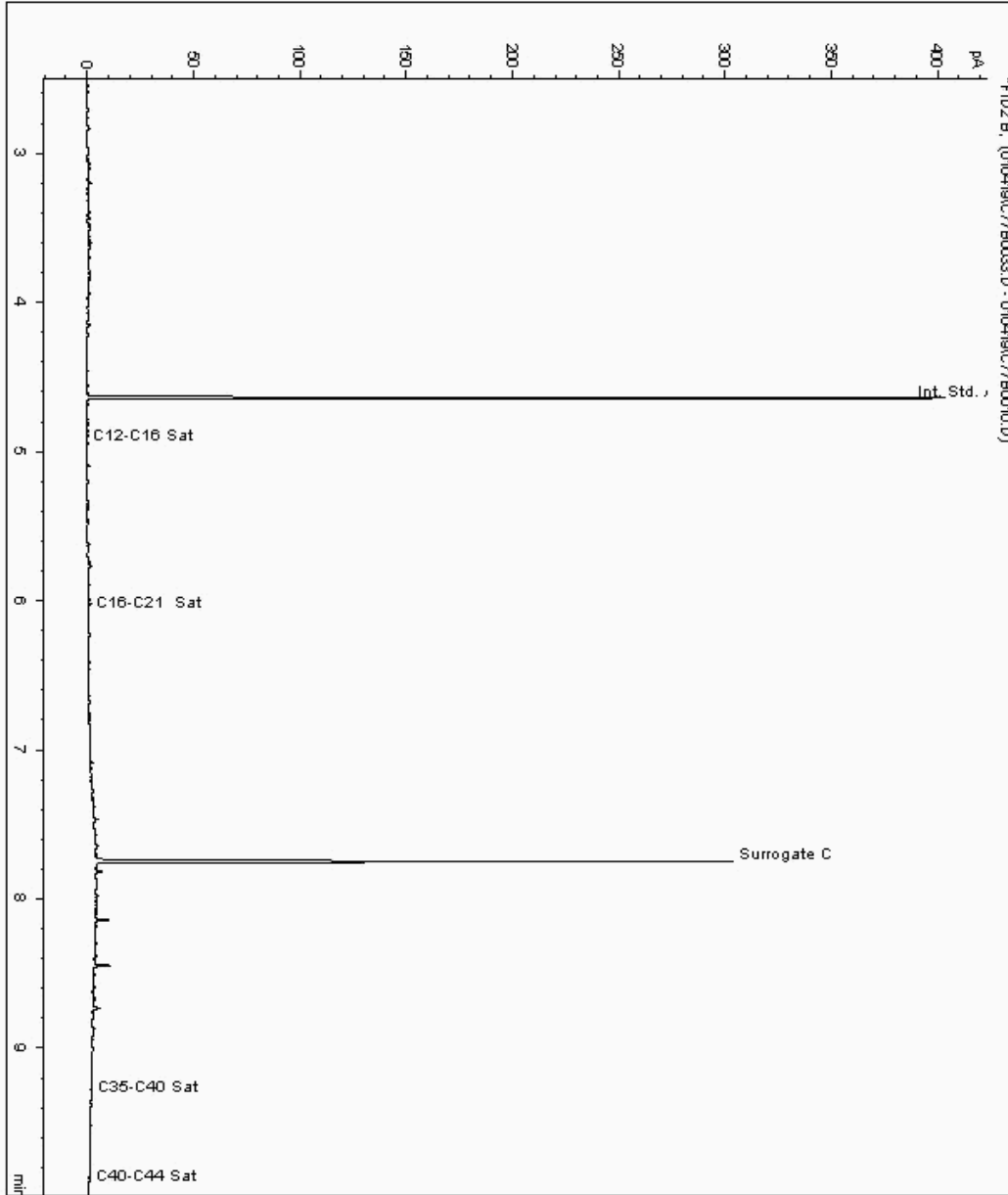
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021755
Sample ID : BH205

Depth : 1.50 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868141-
Date Acquired : 1/4/2019 6:27:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

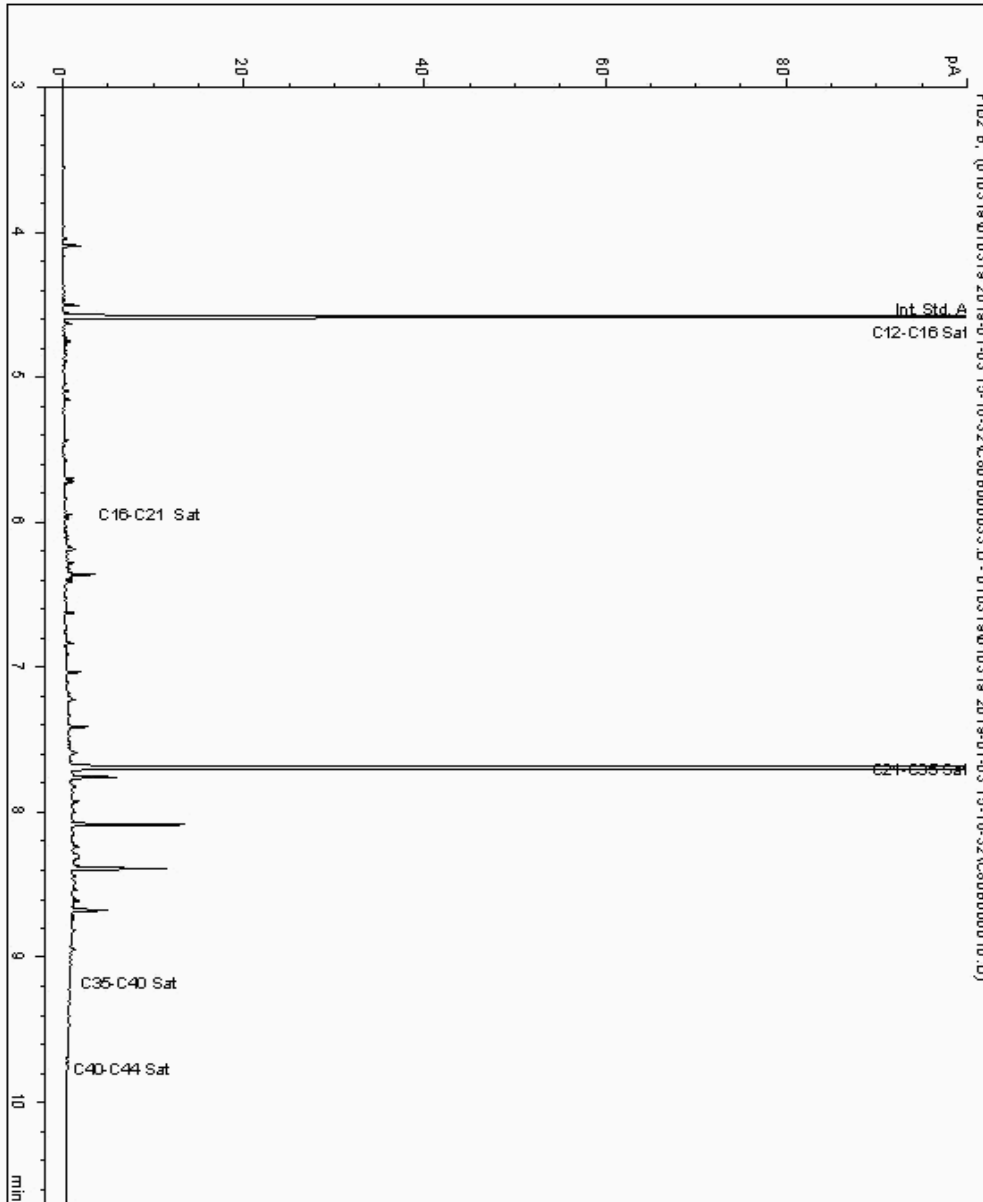
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021824
Sample ID : BH201

Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867194-
Date Acquired : 03/01/19 22:48:03
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

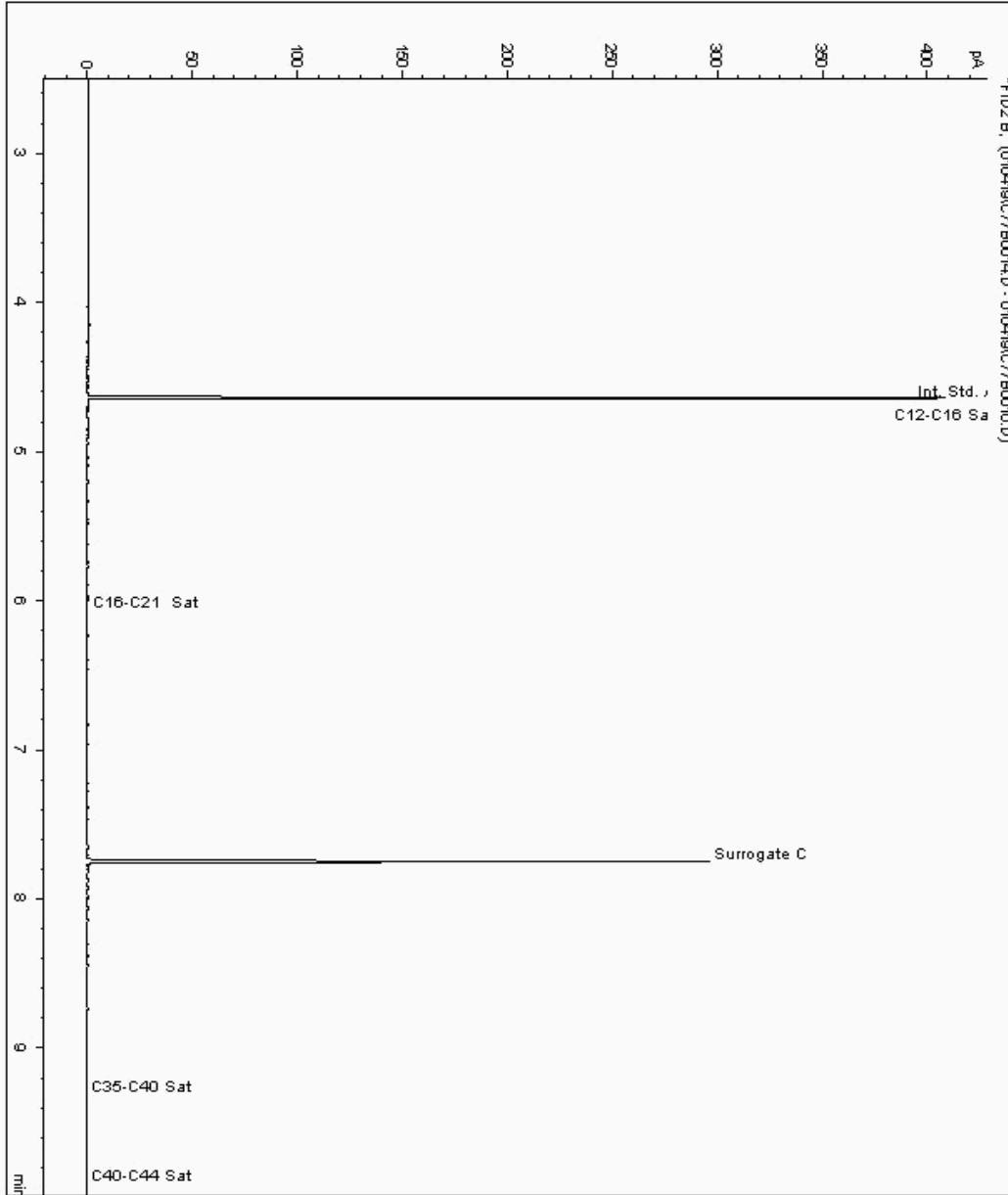
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021861
Sample ID : BH203

Depth : 7.00 - 8.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867963-
Date Acquired : 1/4/2019 1:17:26 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

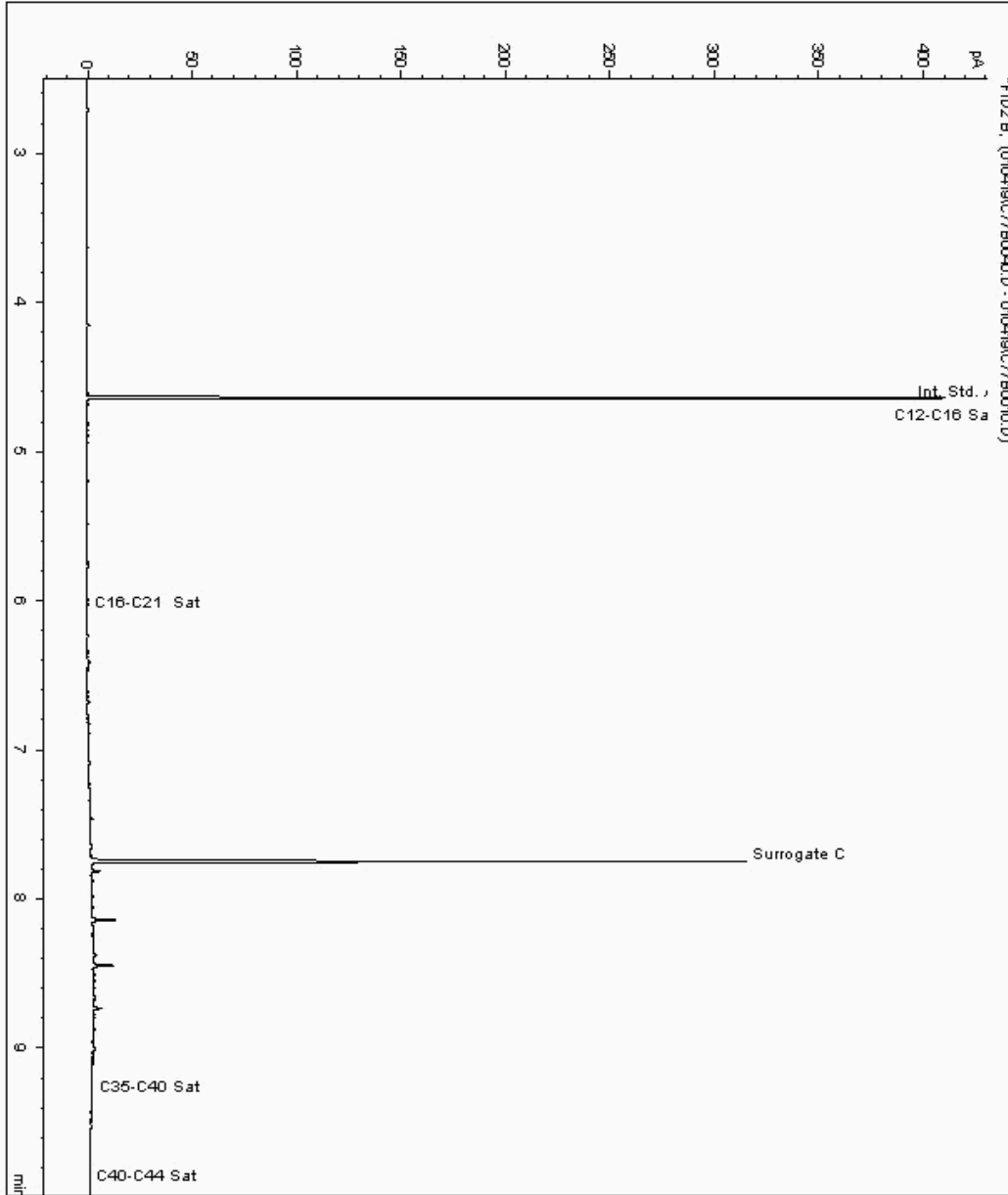
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021914
Sample ID : BH202

Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867600-
Date Acquired : 1/4/2019 8:21:28 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

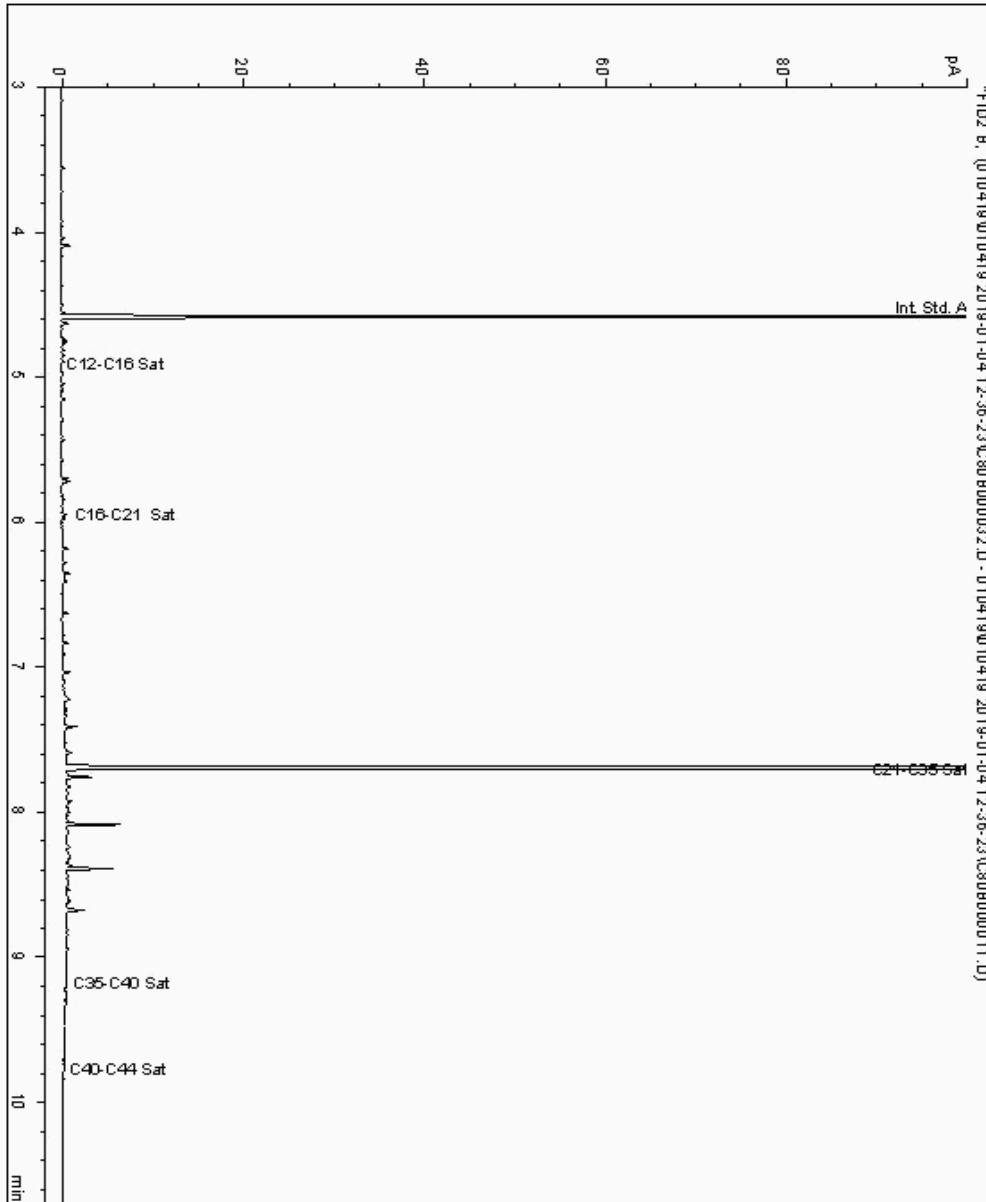
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021963
Sample ID : BH205

Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868228-
Date Acquired : 04/01/19 19:51:55
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

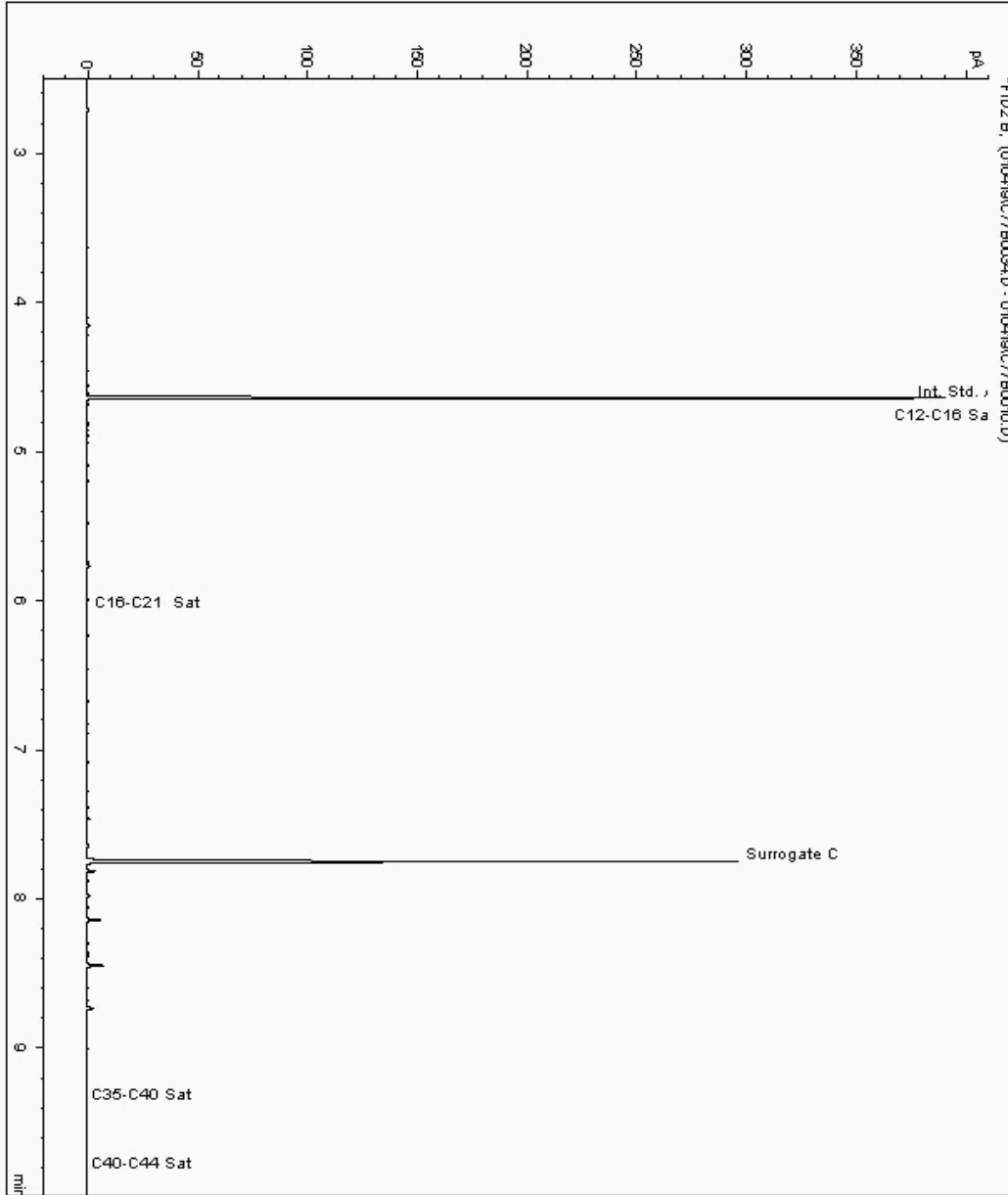
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021993
Sample ID : BH202

Depth : 0.00 - 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867498-
Date Acquired : 1/4/2019 6:47:33 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

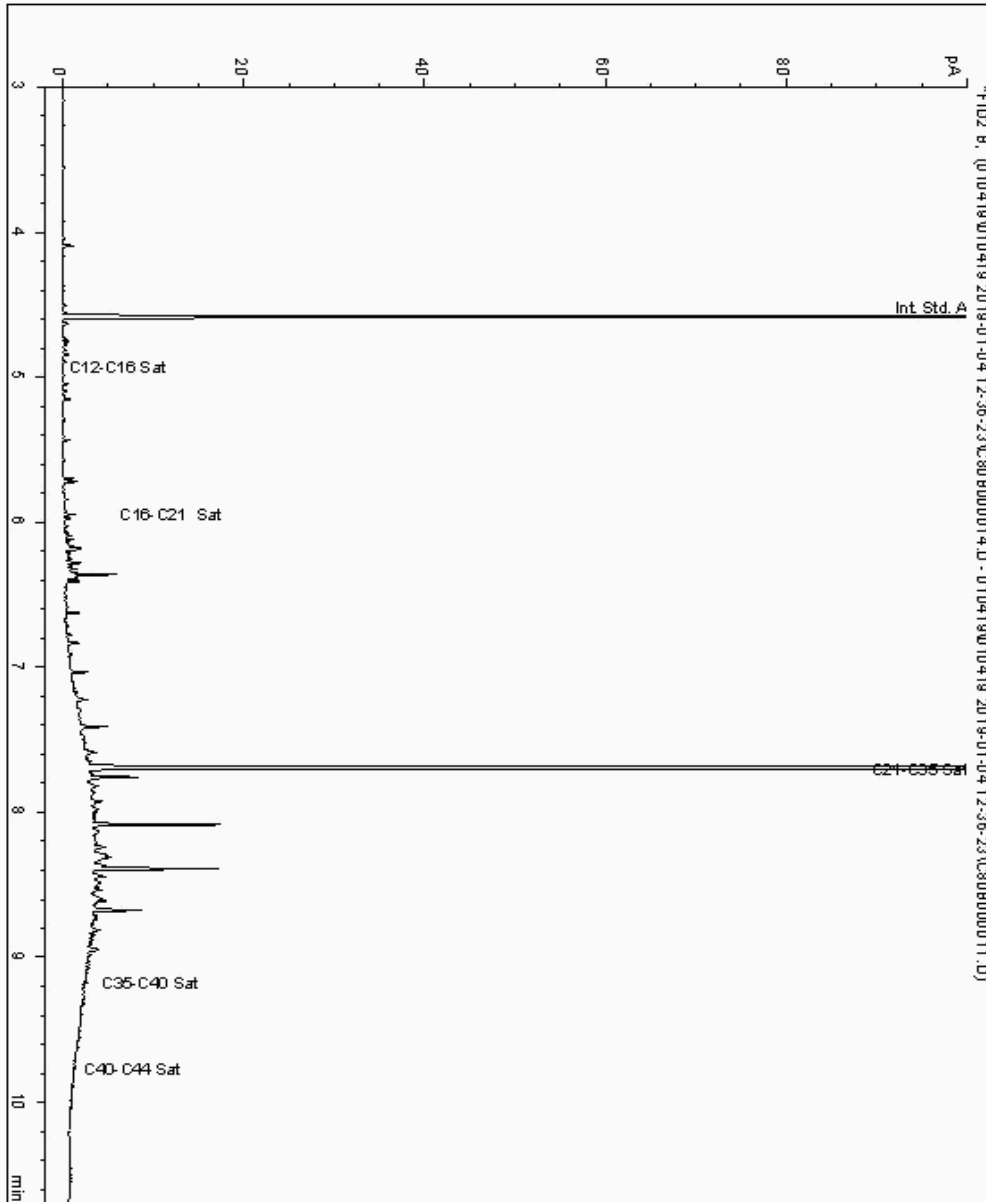
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022032
Sample ID : BH201

Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867230-
Date Acquired : 04/01/19 14:51:54
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

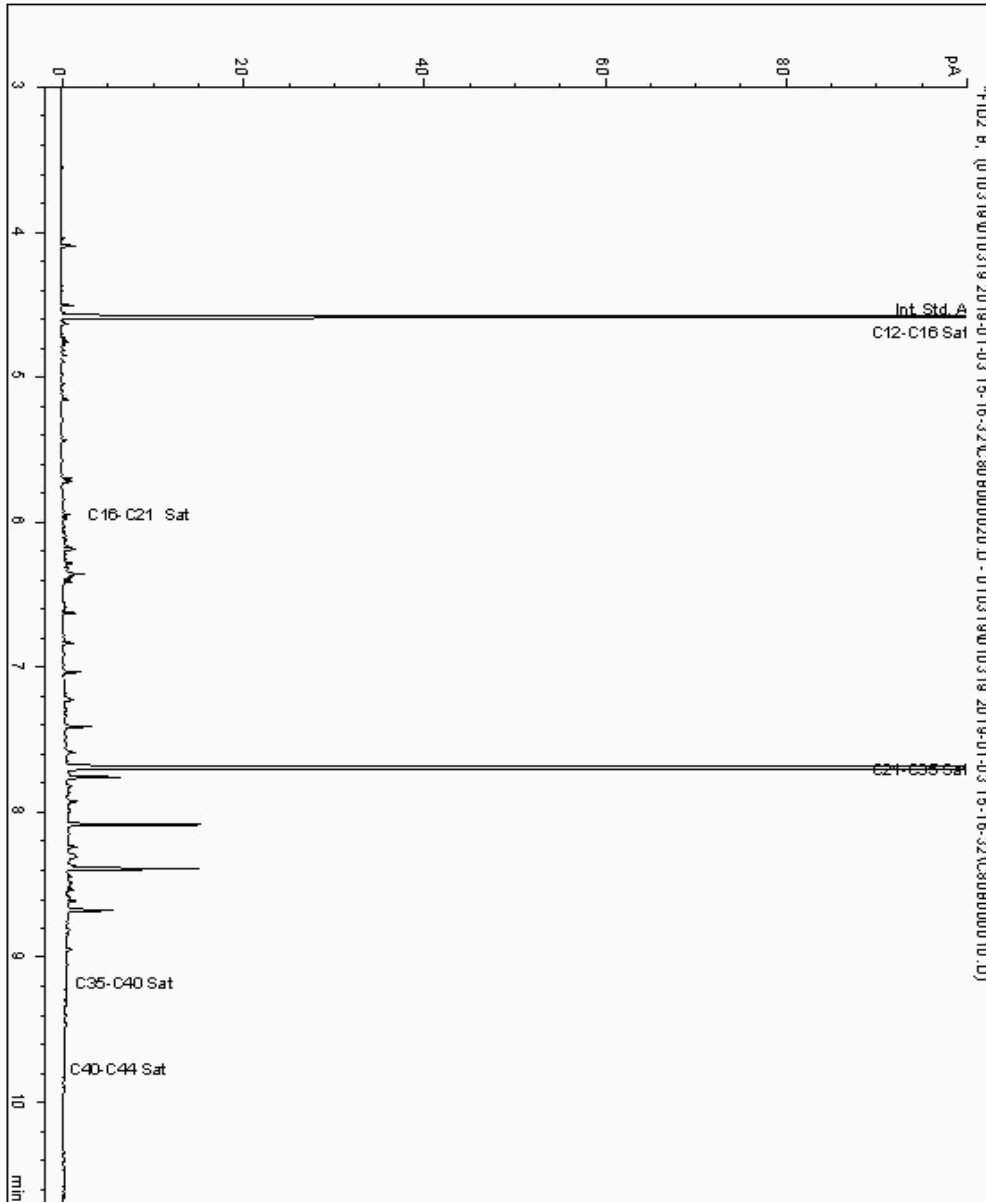
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022084
Sample ID : BH202

Depth : 3.00 - 4.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867626-
Date Acquired : 03/01/19 18:56:49
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

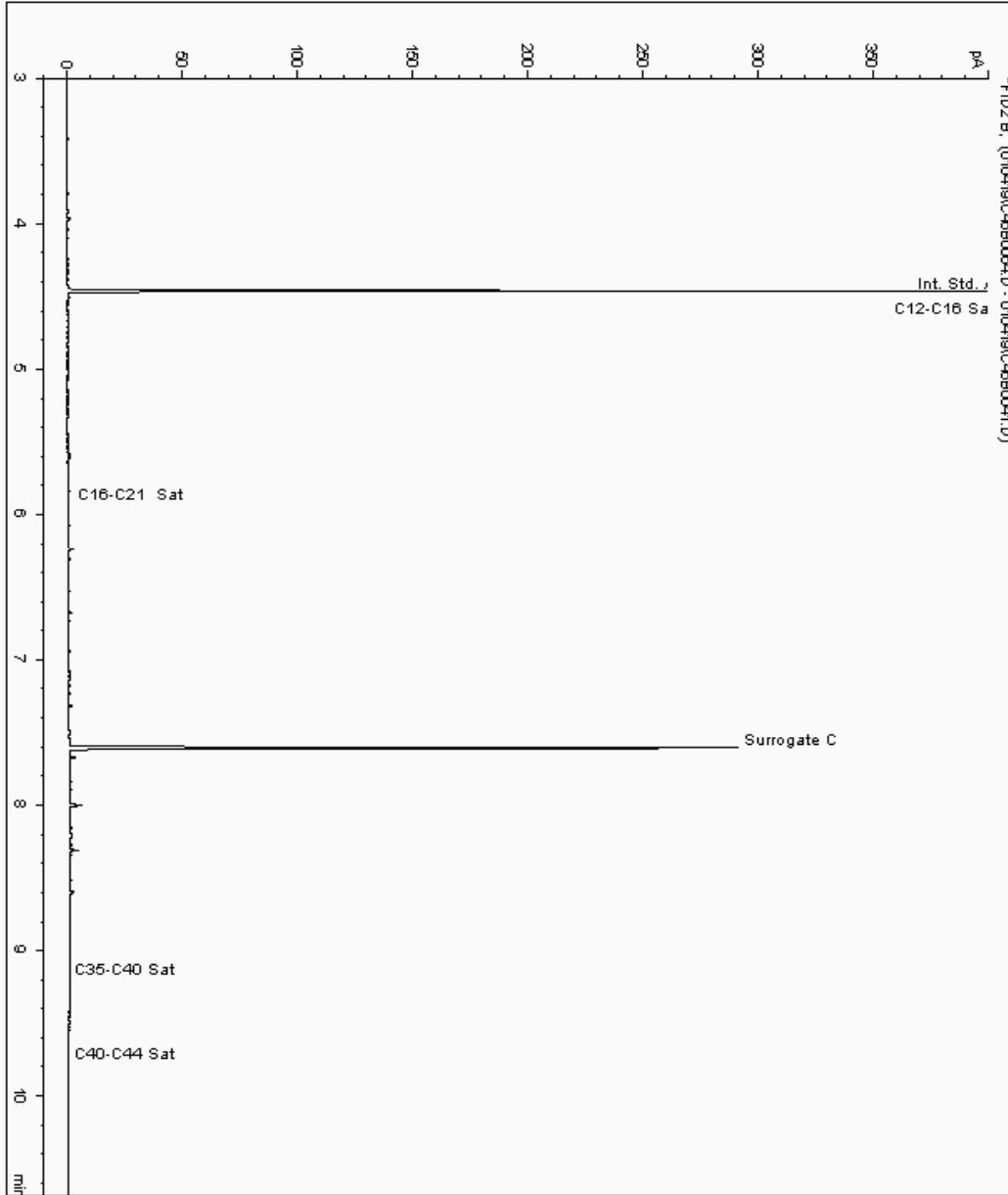
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022147
Sample ID : BH210

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868881-
Date Acquired : 05/01/2019 05:56:45 PM
Units : ppb
Dilution: BH210[2.00 - 3.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

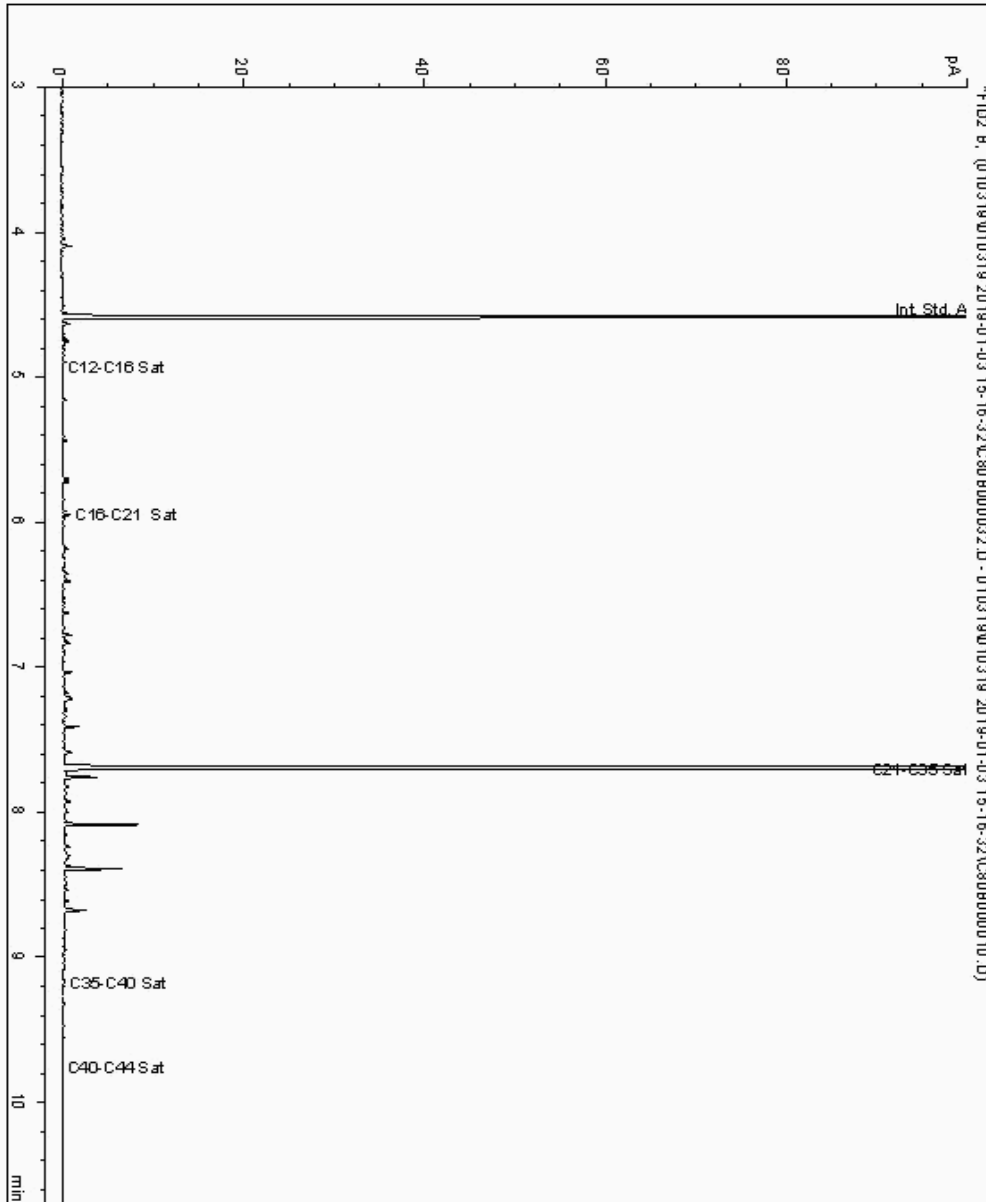
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022189
Sample ID : BH201

Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867161-
Date Acquired : 03/01/19 22:28:27
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

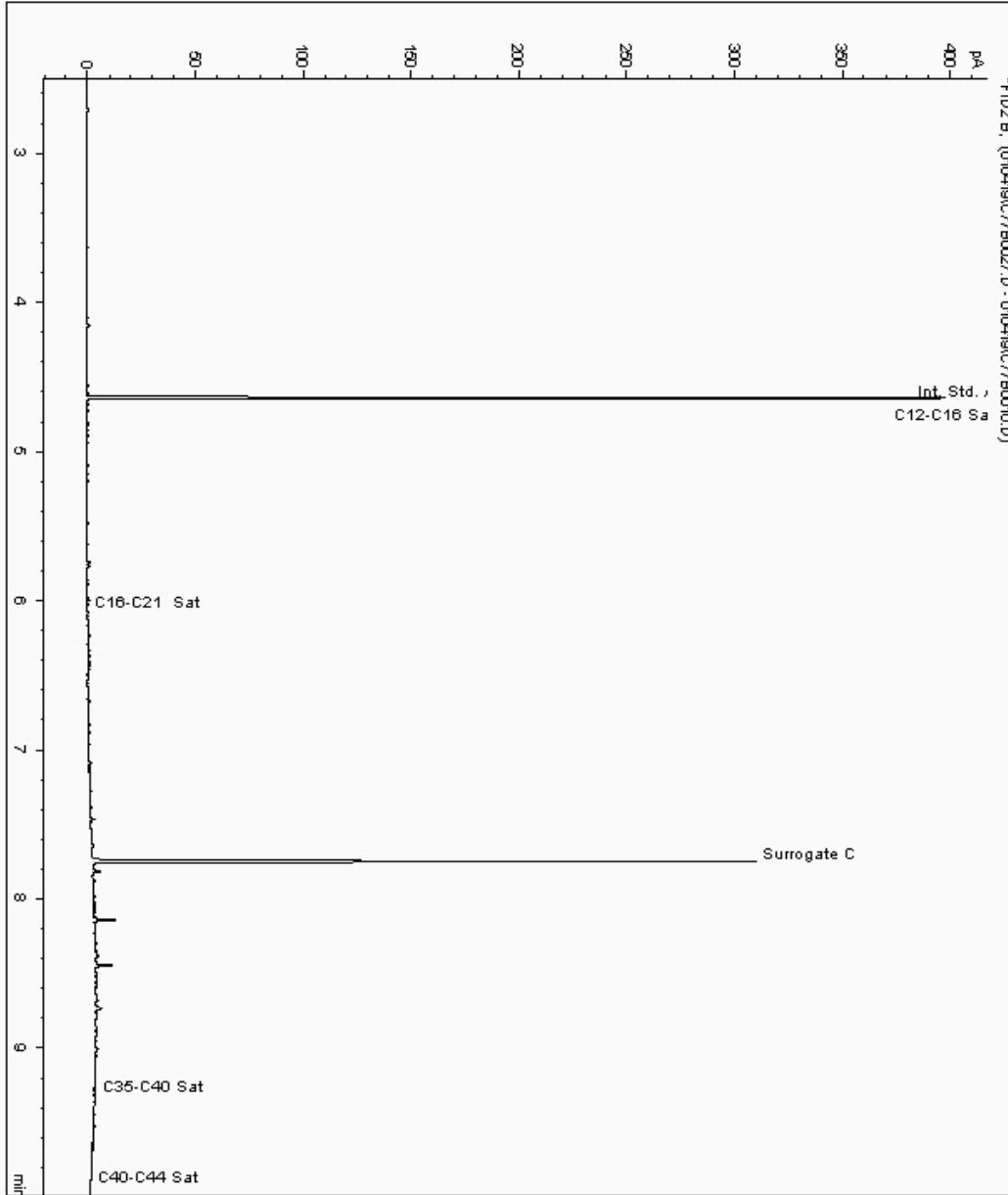
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022219
Sample ID : BH203

Depth : 2.00 - 3.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867810-
Date Acquired : 1/4/2019 4:53:34 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

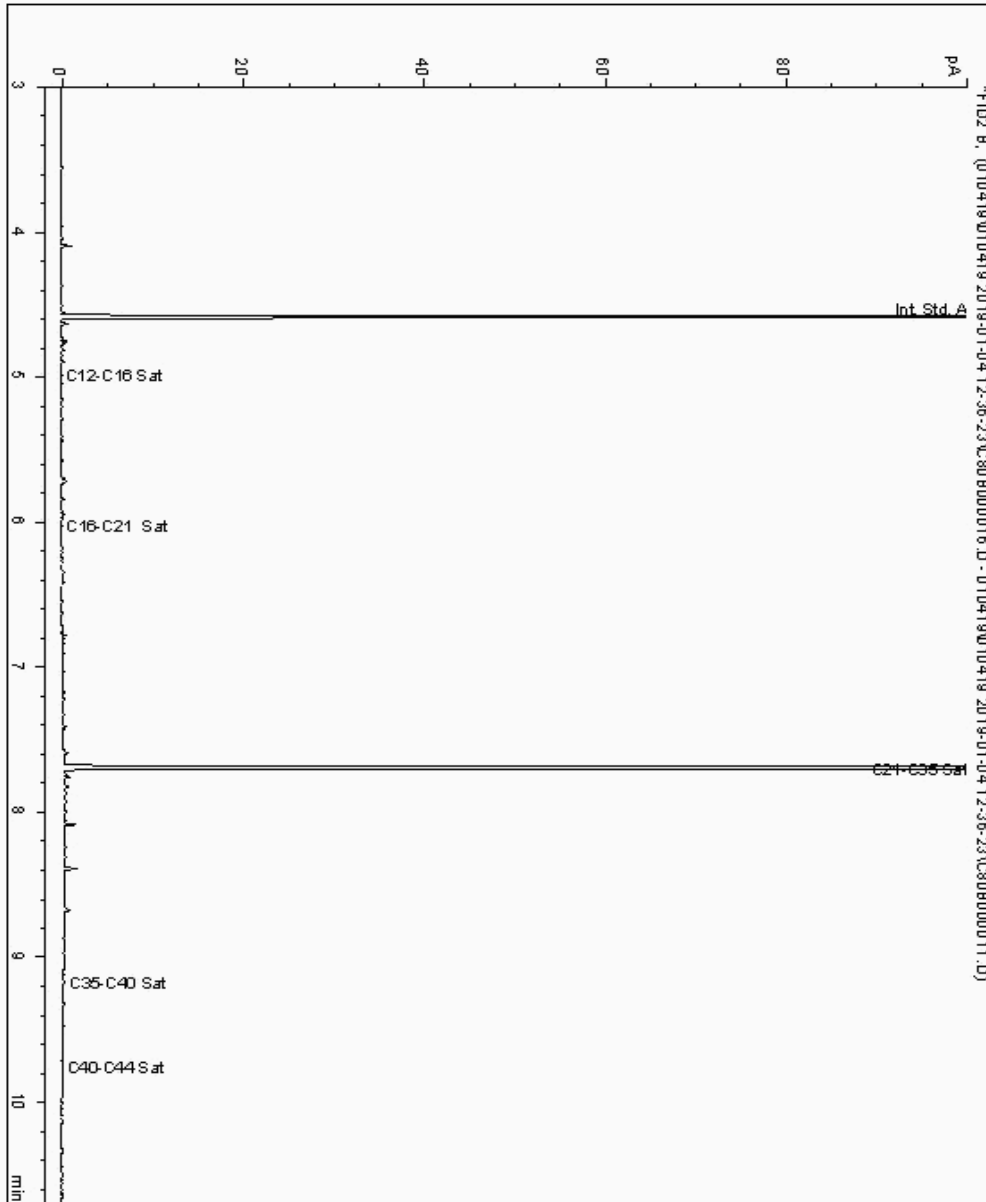
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022312
Sample ID : BH203

Depth : 5.00 - 6.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17867892-
Date Acquired : 04/01/19 15:23:49
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

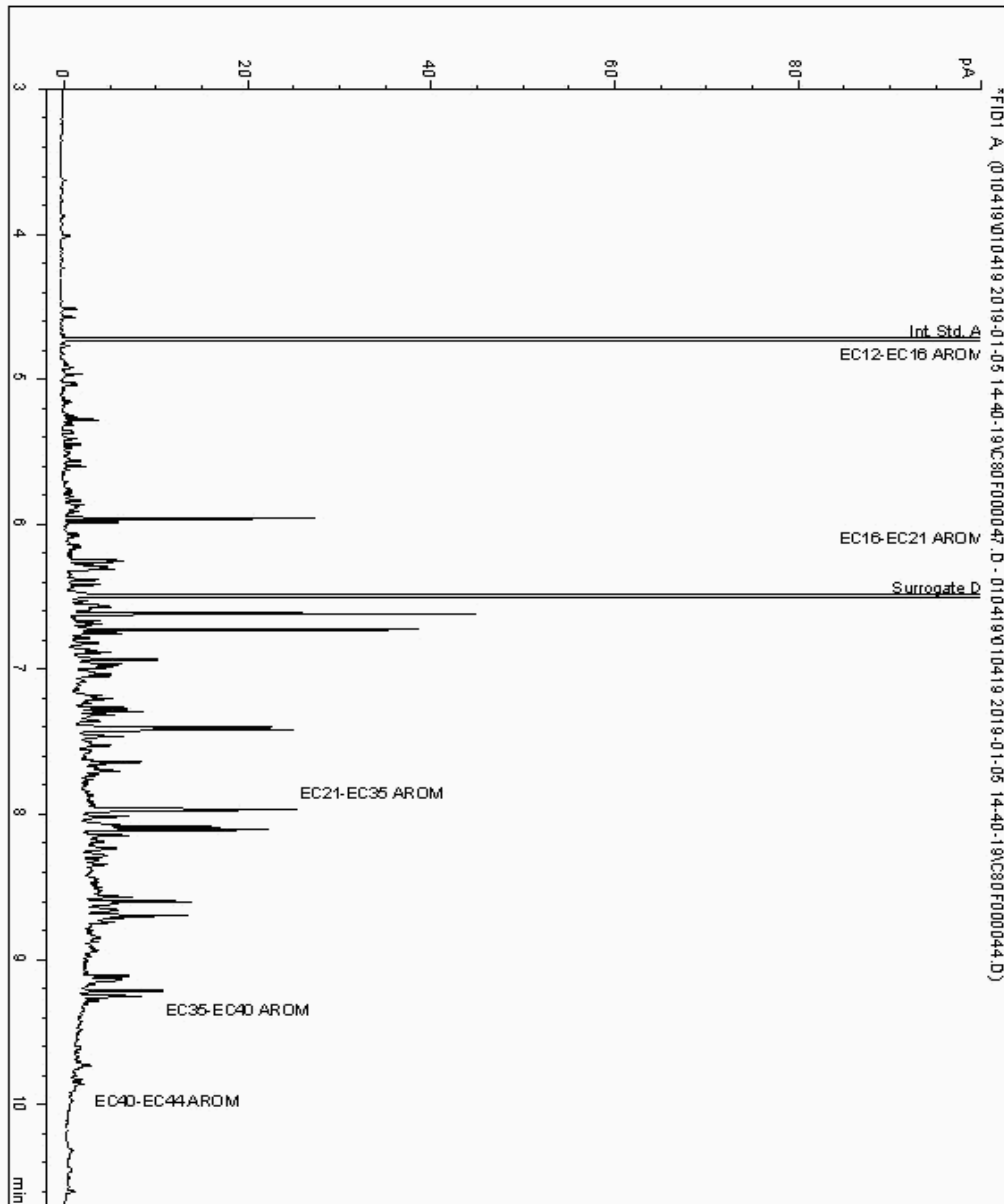
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19017516
Sample ID : BH210

Depth : 0.00 - 1.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868678-
Date Acquired : 05/01/19 16:57:22
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

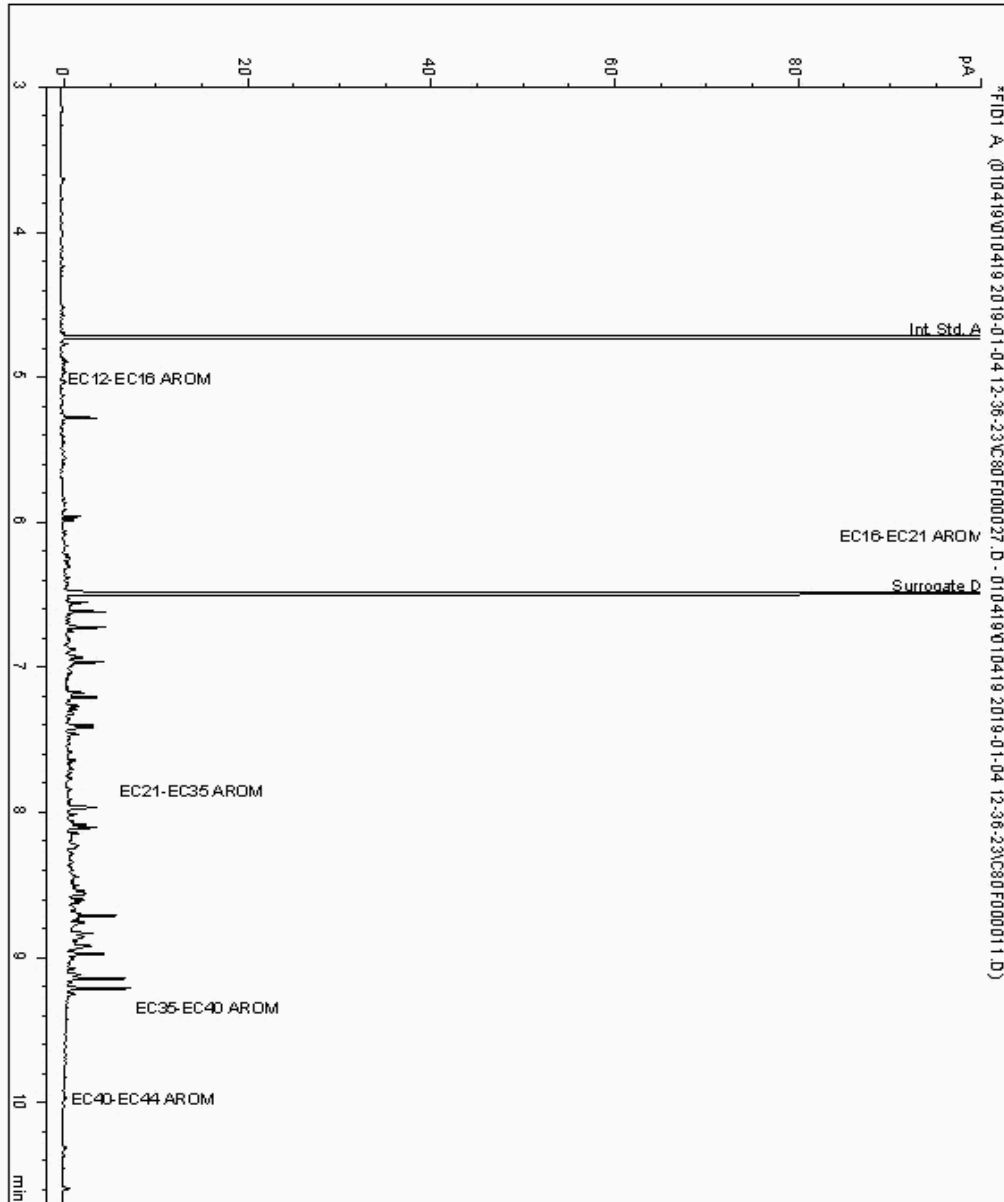
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19018204
Sample ID : BH203

Depth : 0.00 - 1.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867752-
Date Acquired : 04/01/19 18:20:55
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

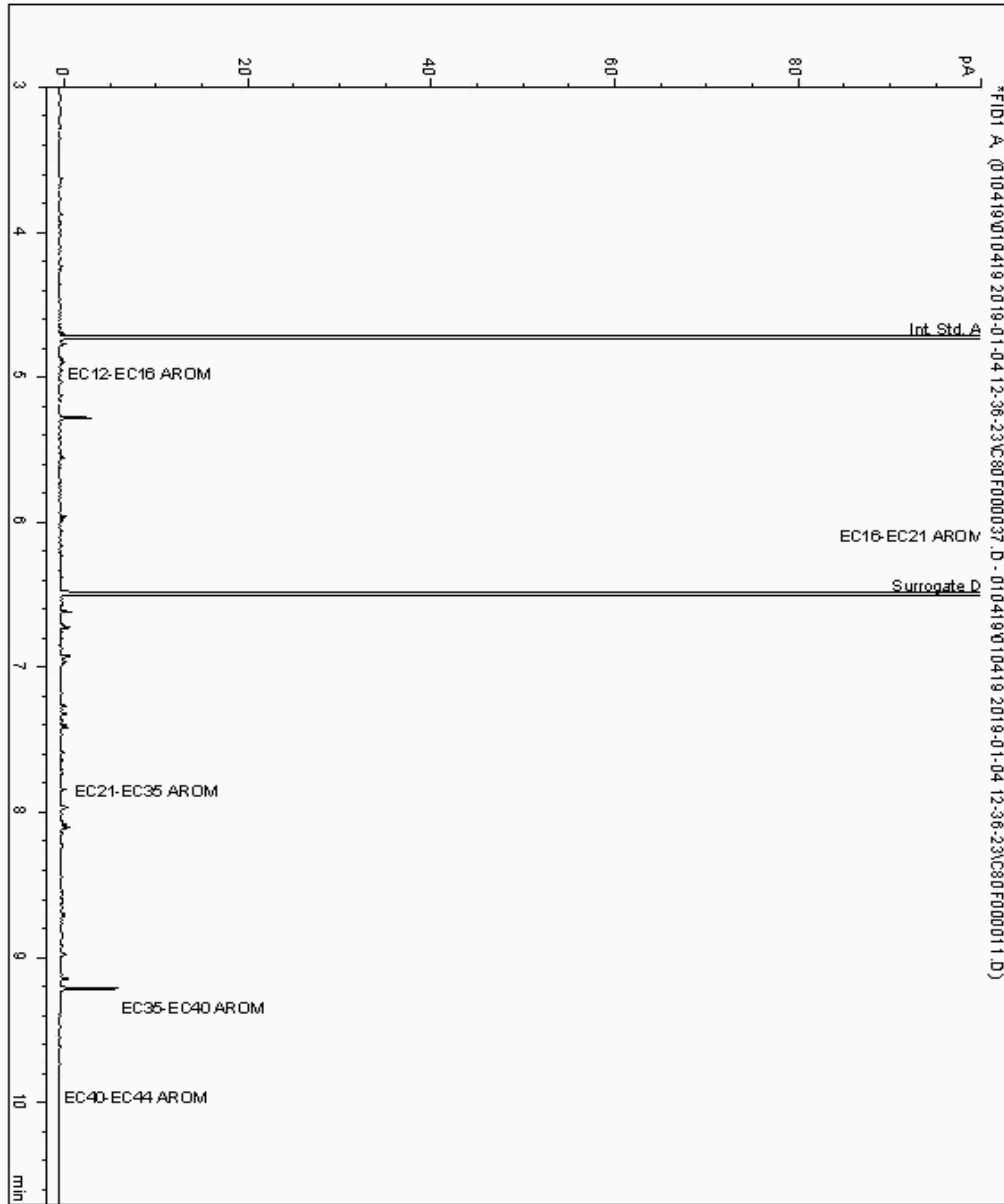
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19018372
Sample ID : BH203

Depth : 1.00 - 2.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867785-
Date Acquired : 04/01/19 21:15:17
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

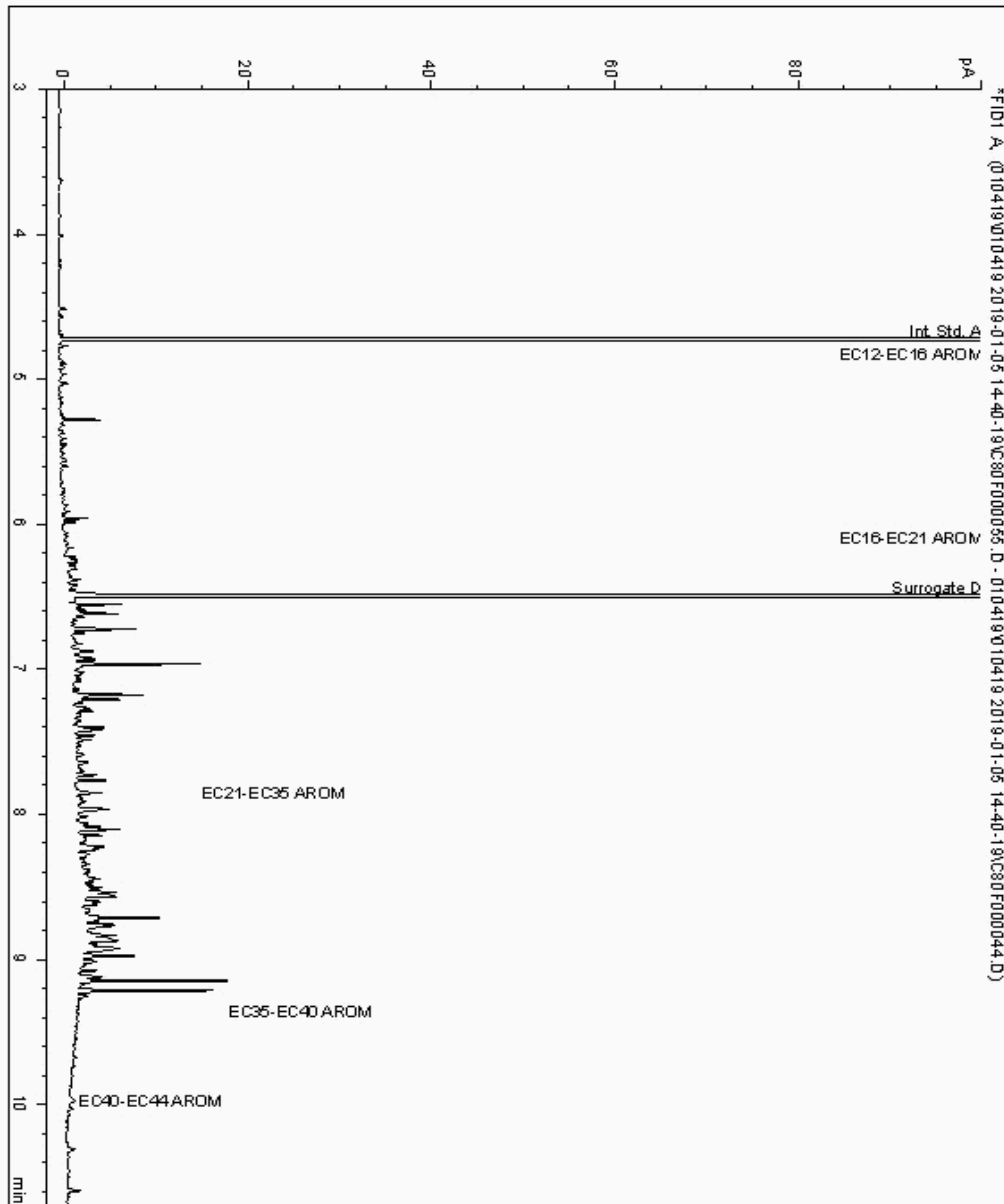
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19018510
Sample ID : BH210

Depth : 3.00 - 4.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868995-
Date Acquired : 05/01/19 19:11:56
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

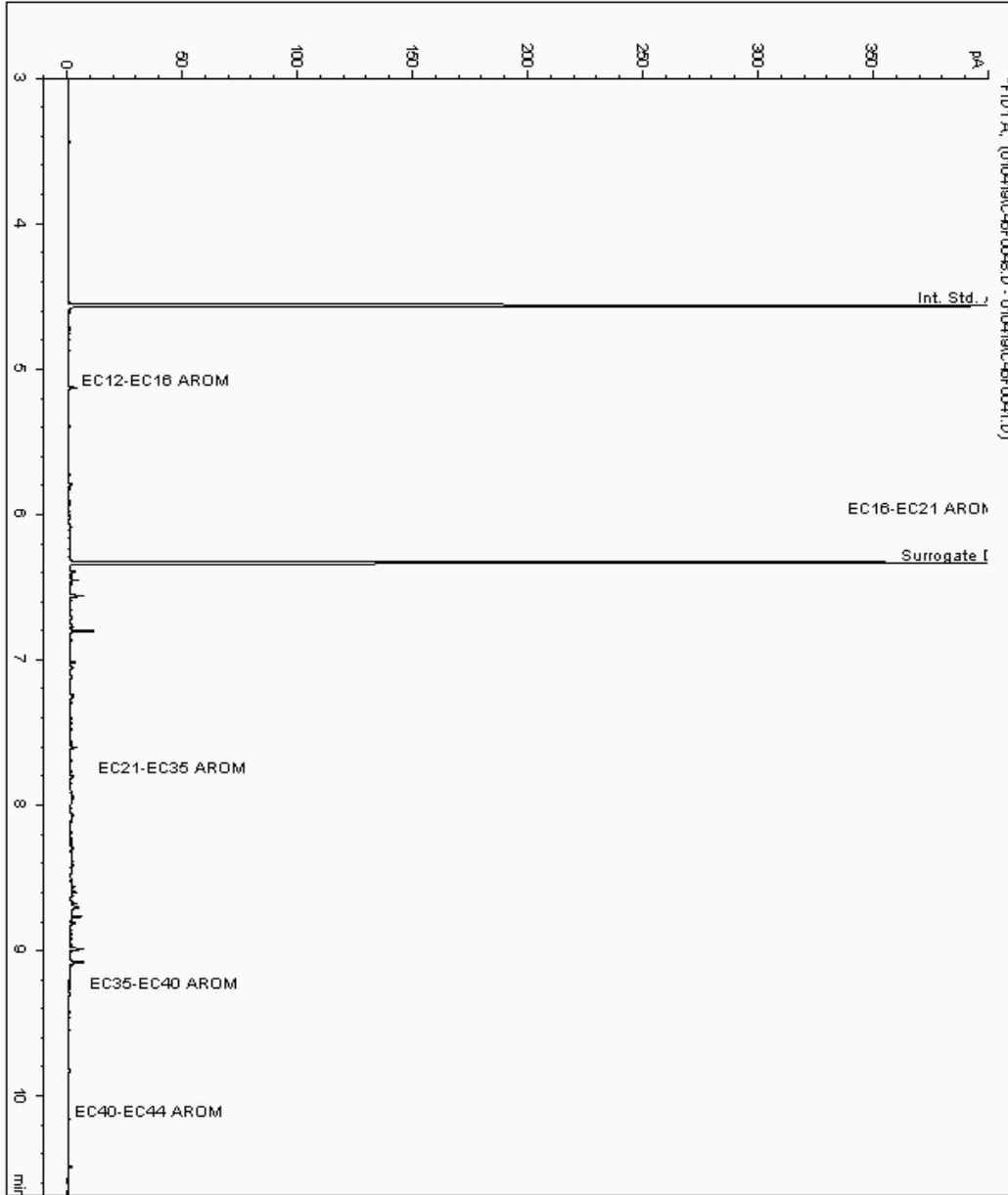
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19018662
Sample ID : BH210

Depth : 4.00 - 5.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869086-
Date Acquired : 05/01/2019 01:02:20 PM
Units : ppb
Dilution: BH210[4.00 - 5.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

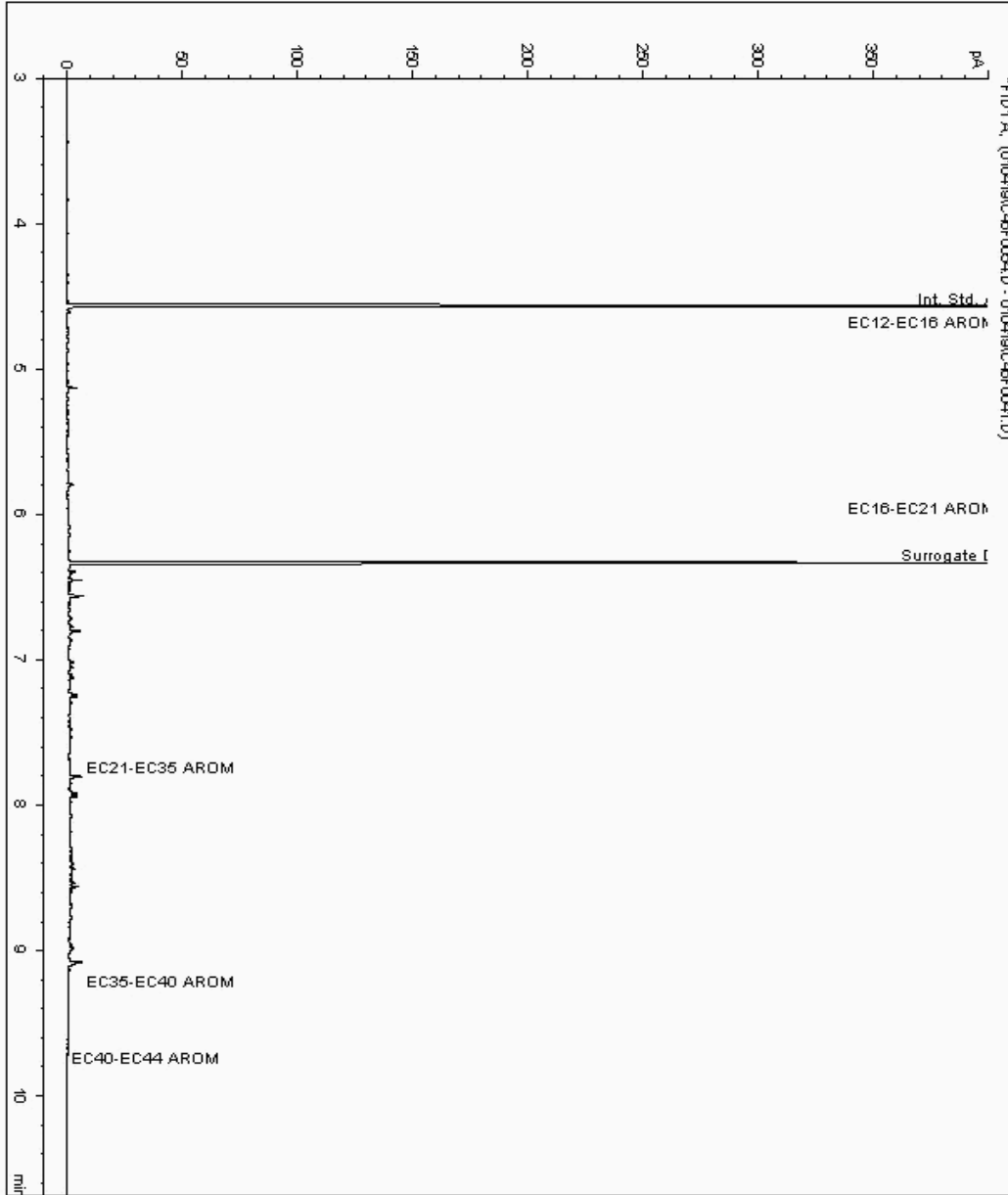
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19018791
Sample ID : BH210

Depth : 1.00 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868785-
Date Acquired : 05/01/2019 02:53:42 PM
Units : ppb
Dilution: BH210[1.00 - 2.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

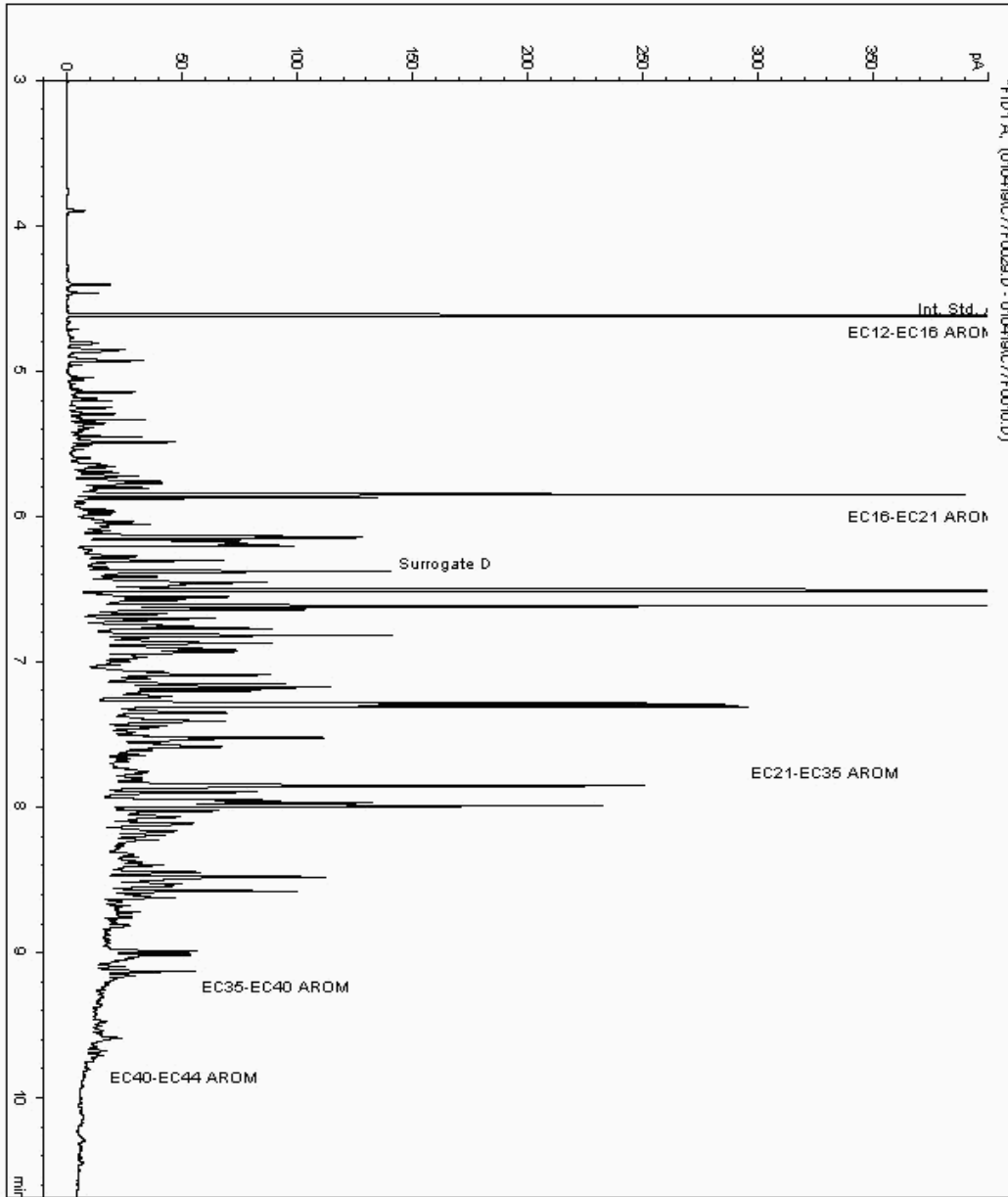
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19018884
Sample ID : BH203

Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867839-
Date Acquired : 1/4/2019 5:25:02 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

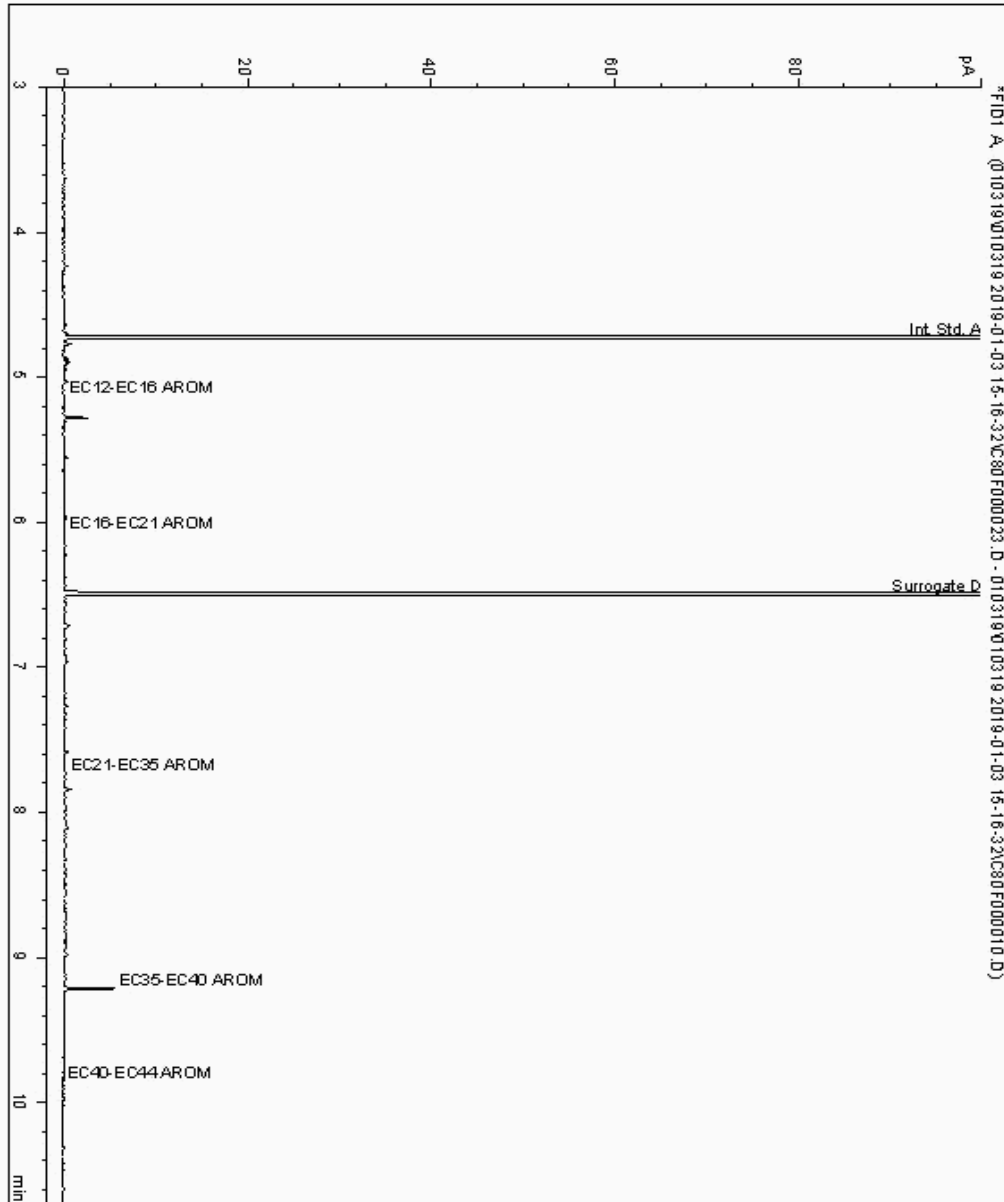
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020169
Sample ID : BH202

Depth : 8.00 - 9.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868410-
Date Acquired : 03/01/19 19:47:57
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

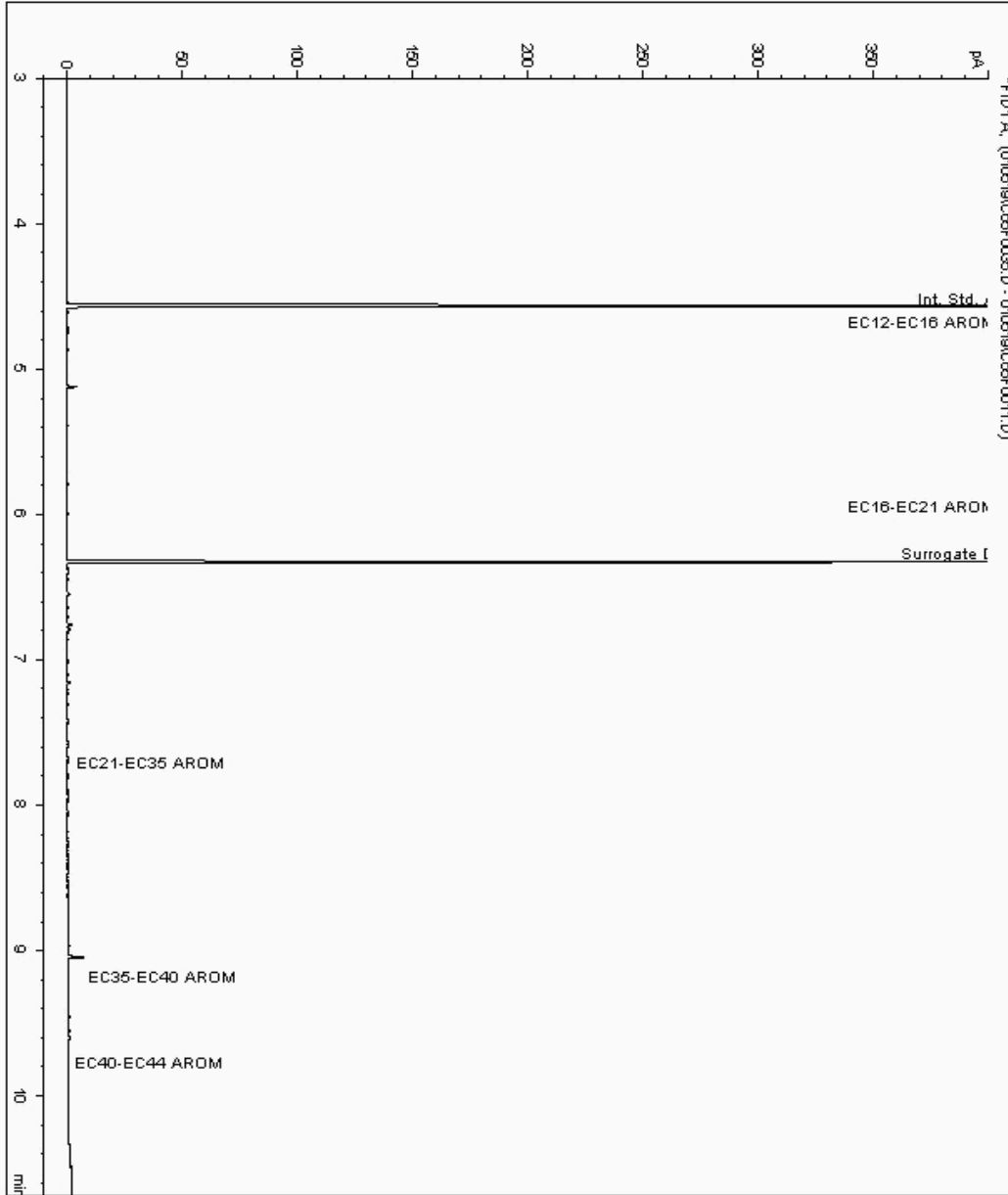
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020198
Sample ID : BH210

Depth : 8.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869159-
Date Acquired : 05/01/2019 19:33:35 PM
Units : ppb
Dilution: BH210[8.00 - 10.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

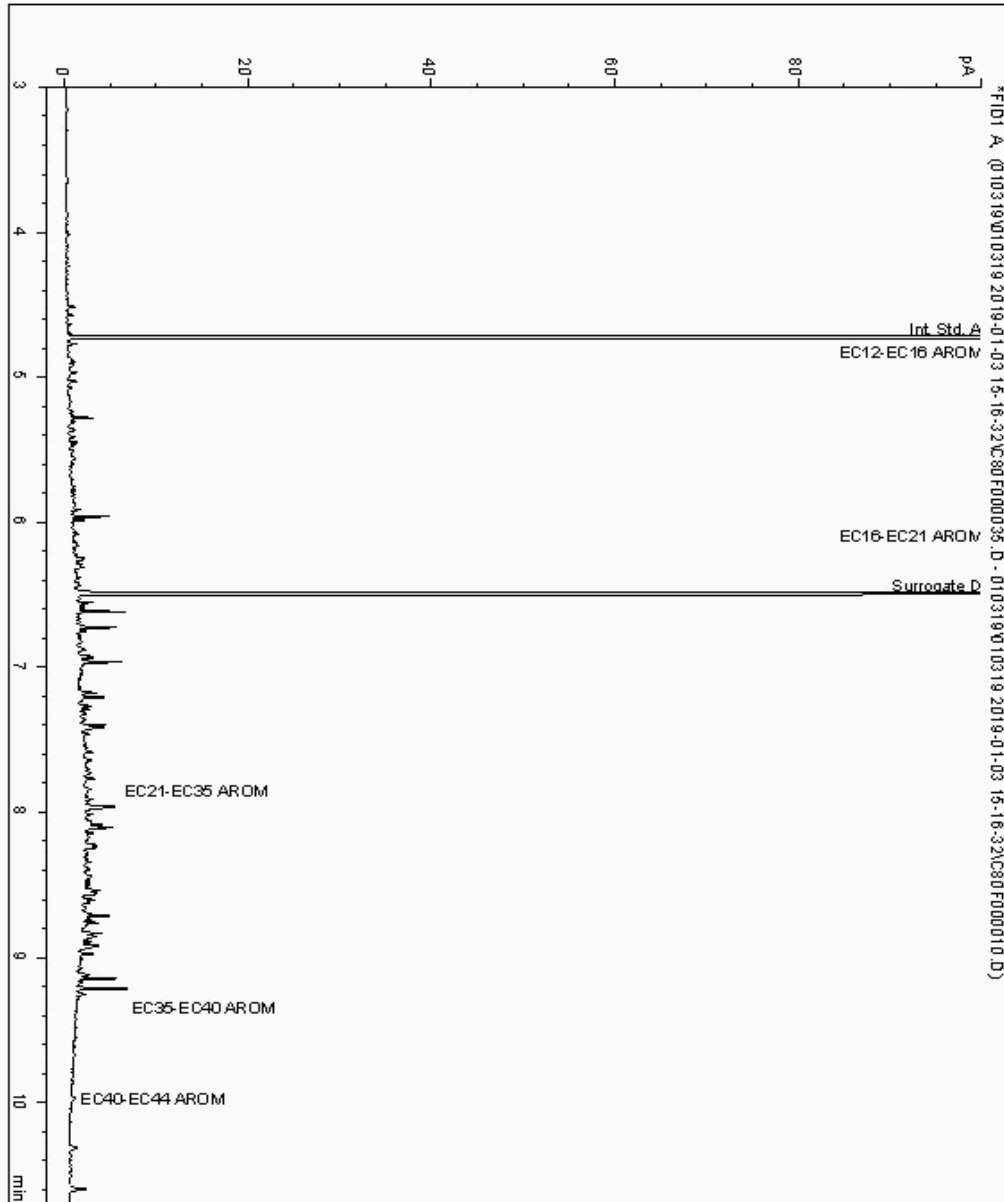
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020317
Sample ID : BH205

Depth : 1.00 - 1.50

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868080-
Date Acquired : 03/01/19 23:19:46
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

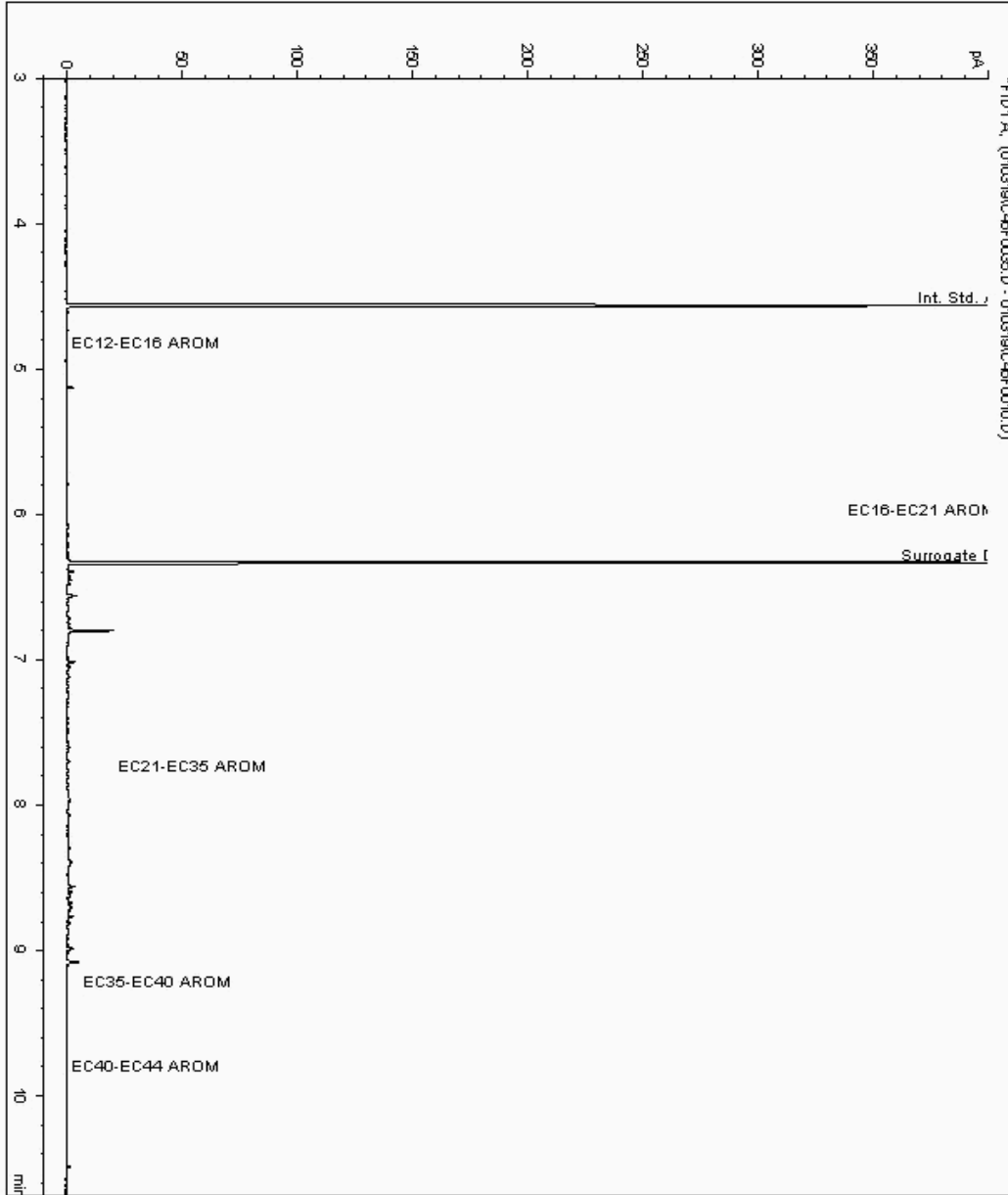
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020363
Sample ID : BH203

Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867932-
Date Acquired : 03/01/2019 19:10:44 PM
Units : ppb
Dilution: BH203[6.00 - 7.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

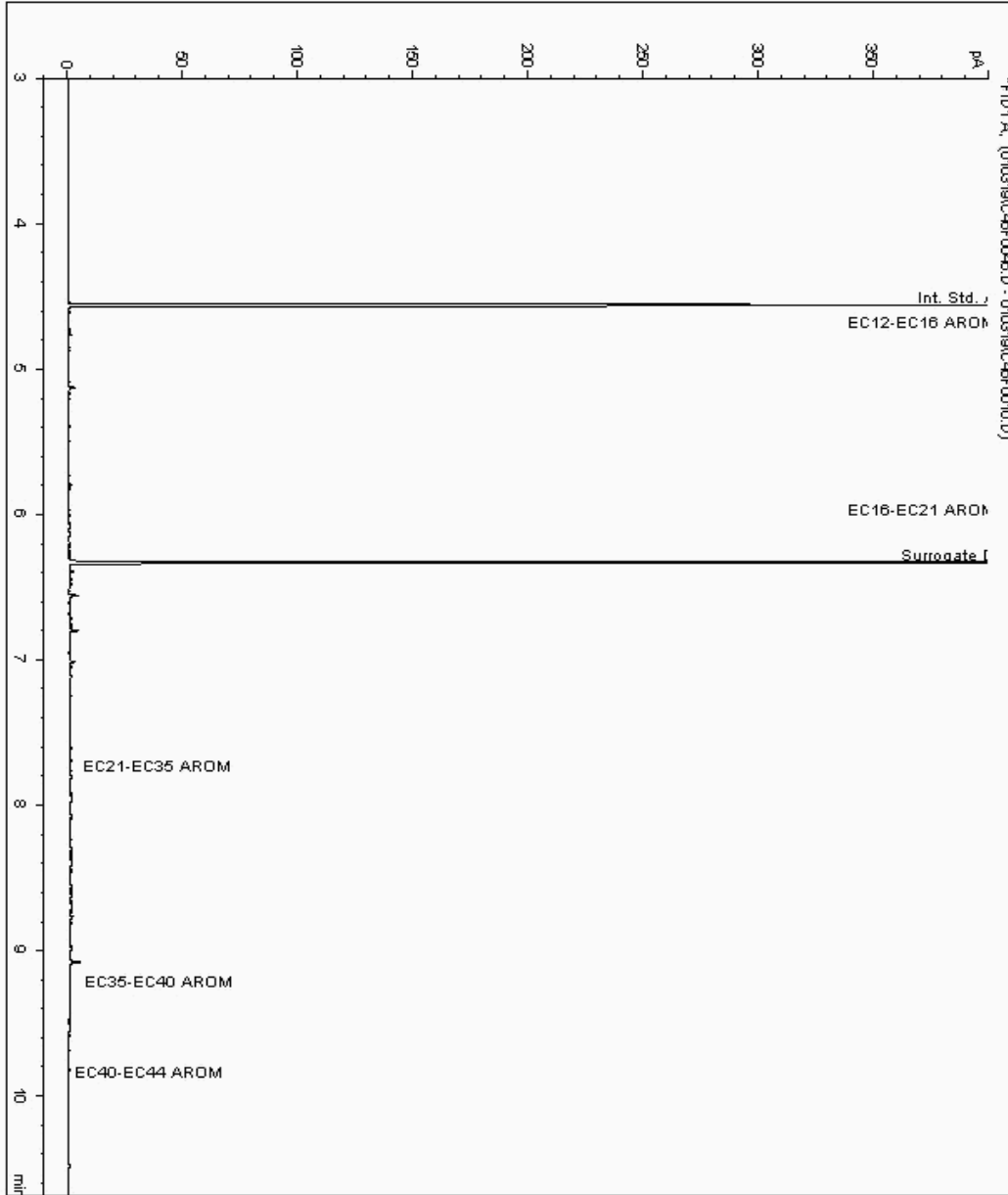
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020417
Sample ID : BH202

Depth : 5.00 - 5.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867676-
Date Acquired : 04/01/2019 09:41:20 PM
Units : ppb
Dilution: BH202[5.00 - 5.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

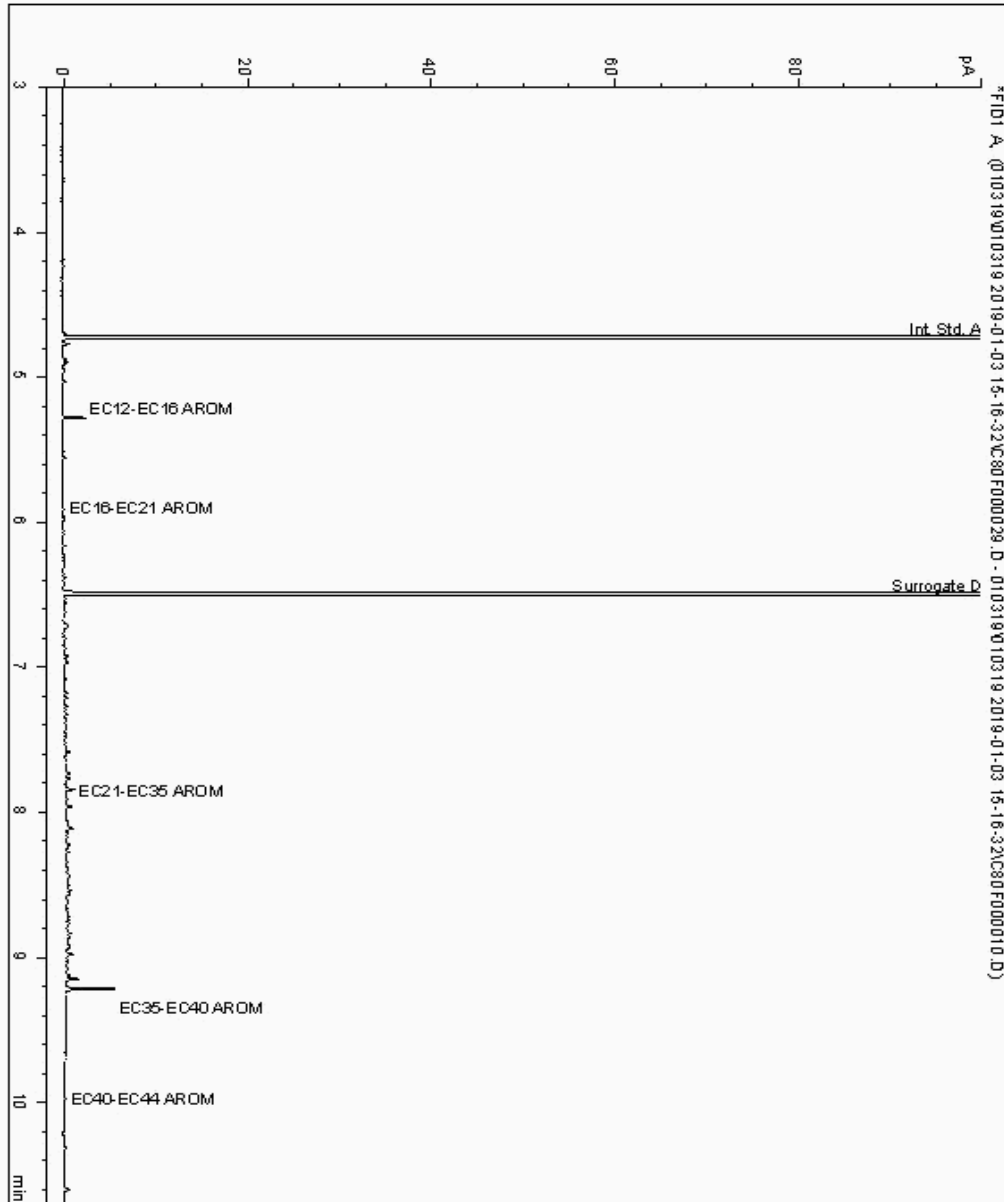
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020423
Sample ID : BH205

Depth : 5.50 - 7.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868254-
Date Acquired : 03/01/19 21:37:29
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

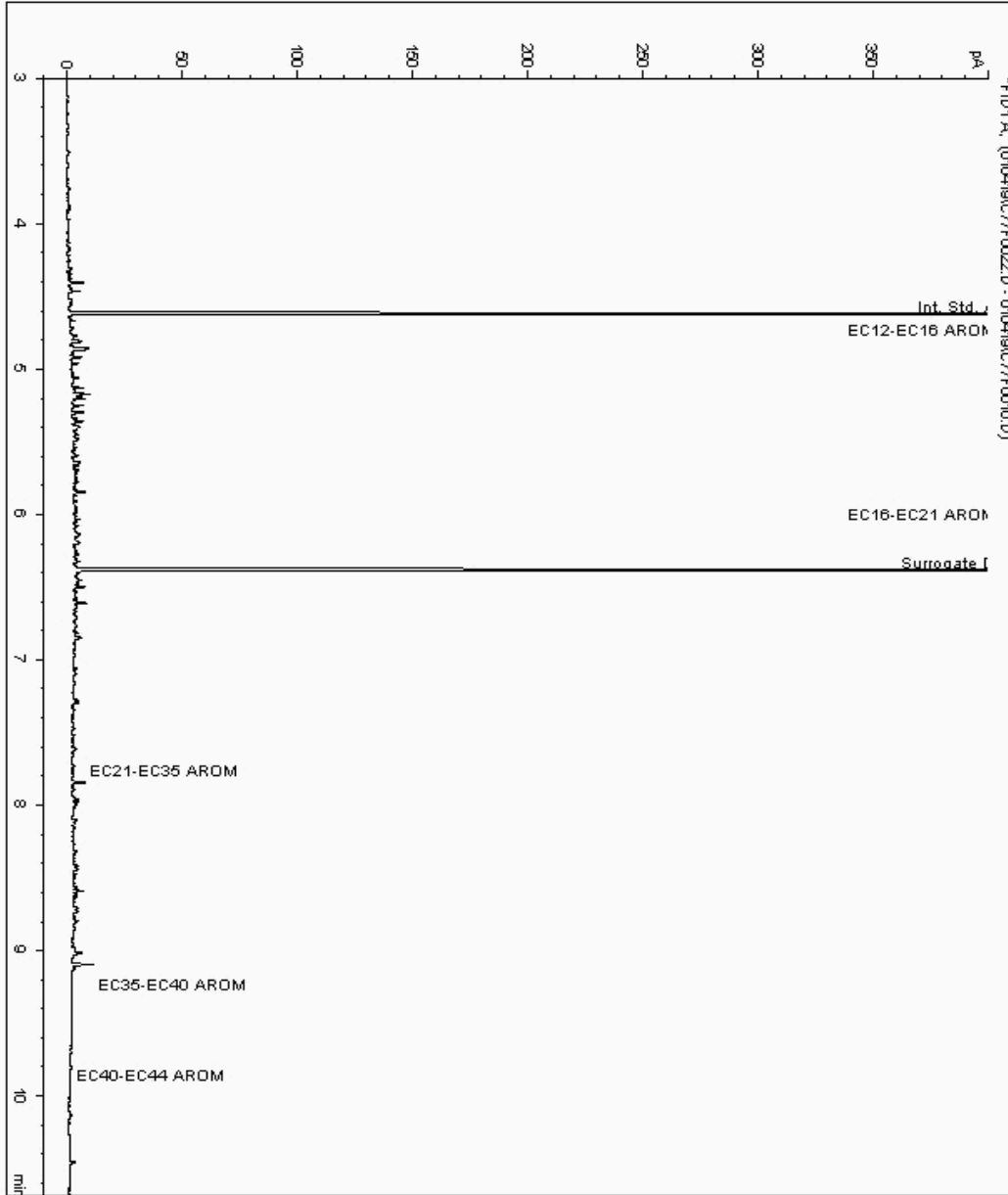
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021040
Sample ID : BH205

Depth : 0.00 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868001-
Date Acquired : 1/4/2019 3:31:04 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

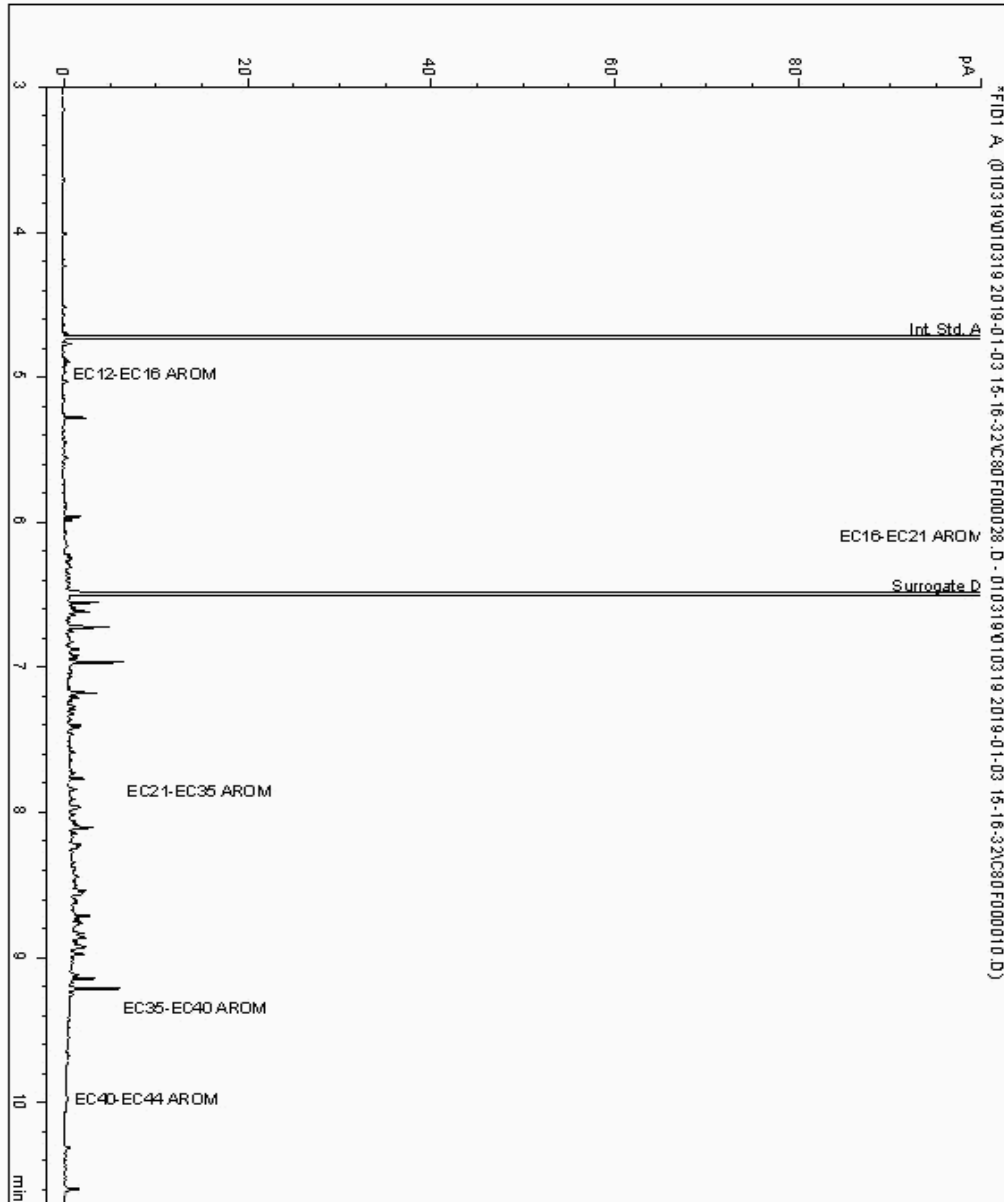
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021079
Sample ID : BH202

Depth : 7.00 - 8.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867703-
Date Acquired : 03/01/19 21:18:00
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

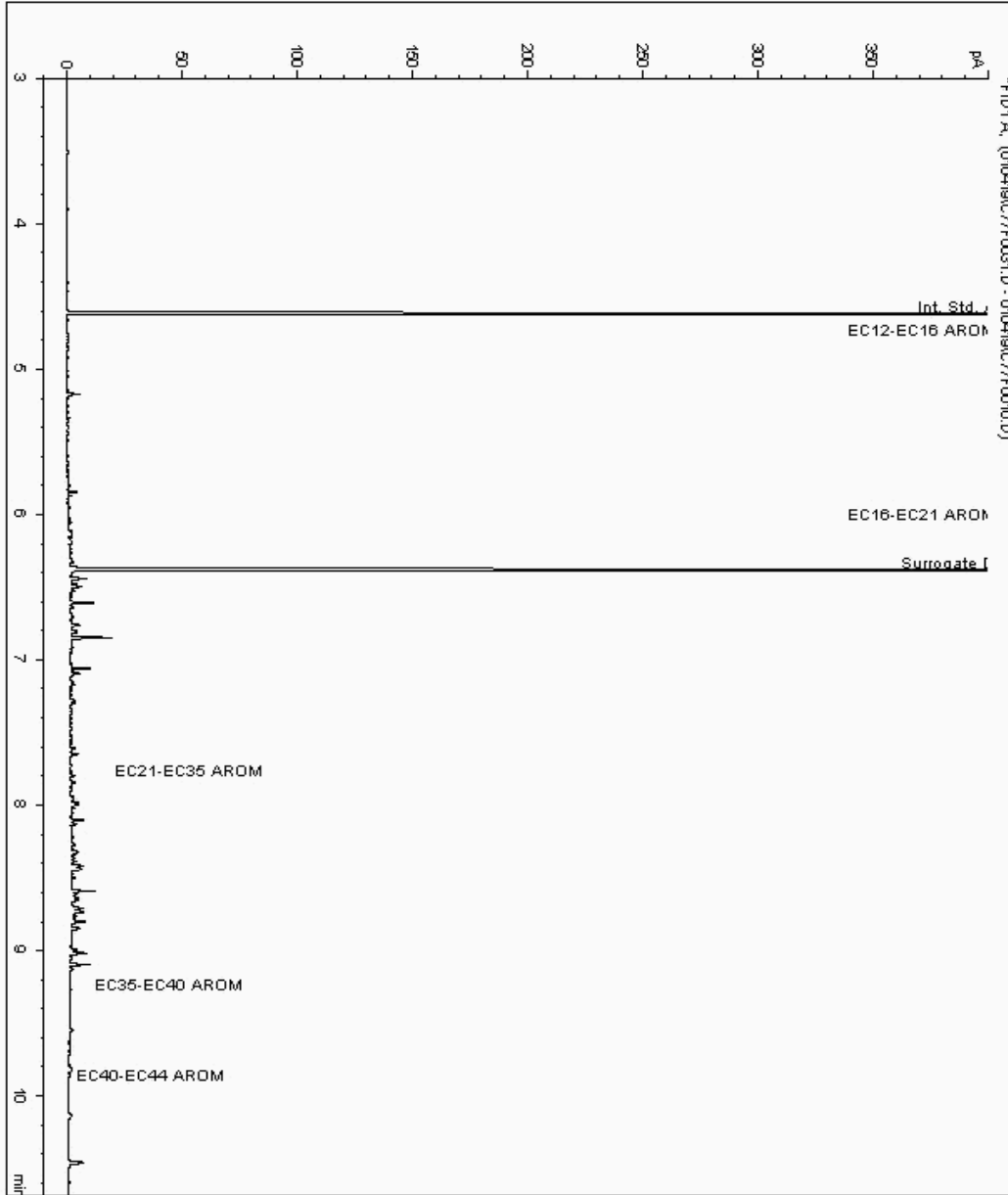
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021141
Sample ID : BH203

Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867867-
Date Acquired : 1/4/2019 5:56:27 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

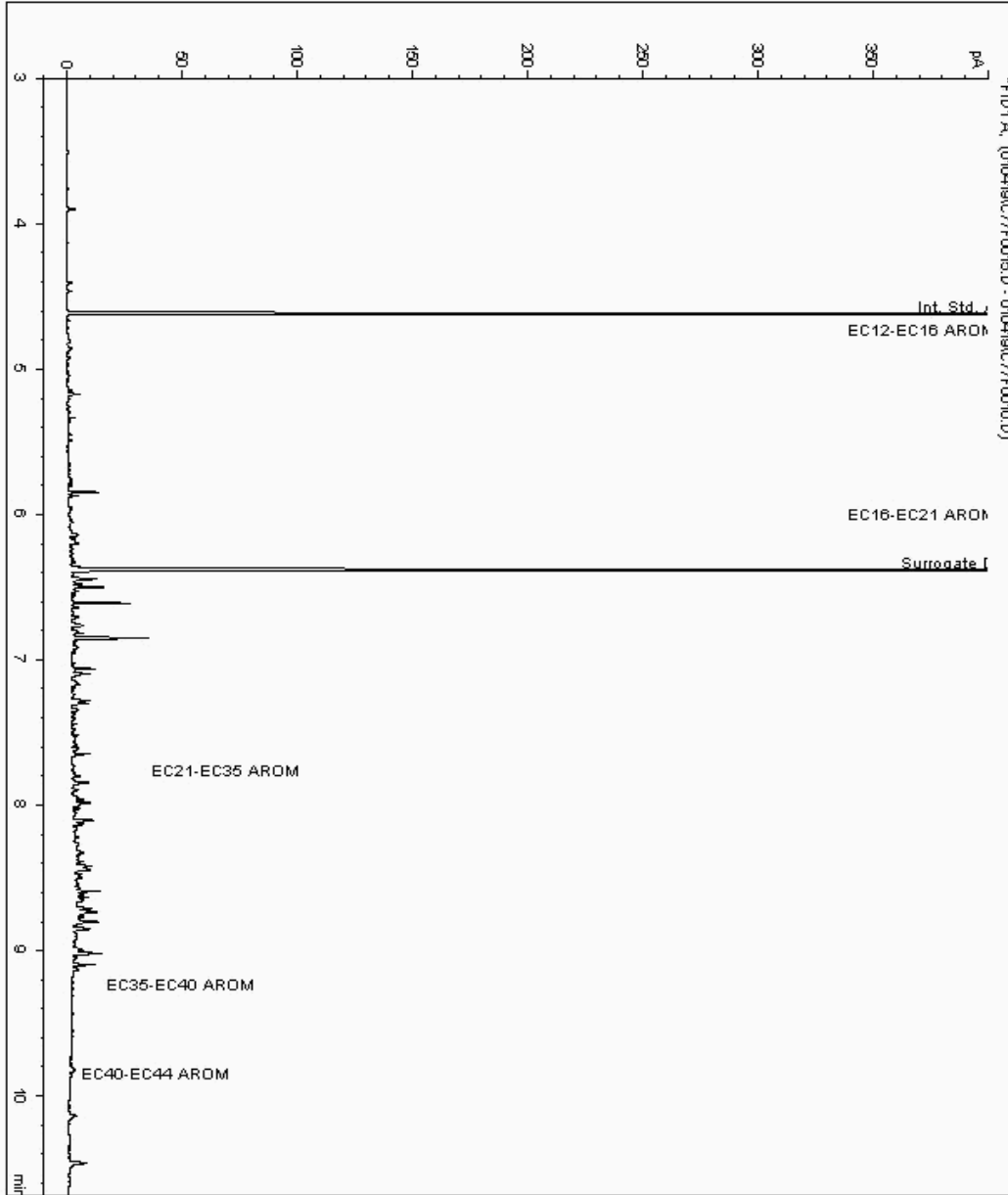
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021143
Sample ID : BH202

Depth : 4.00 - 5.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867652-
Date Acquired : 1/4/2019 1:37:02 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

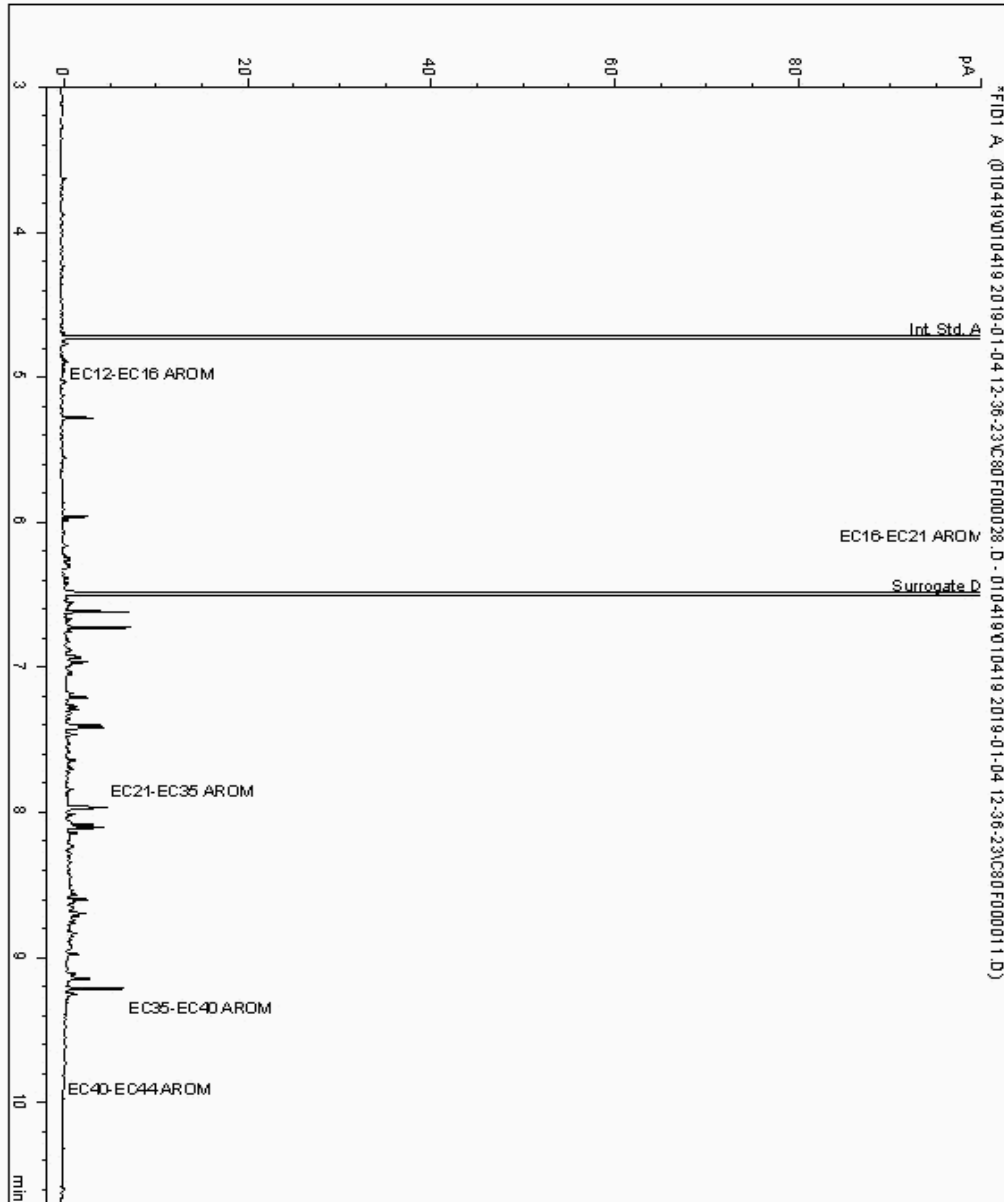
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021224
Sample ID : BH201

Depth : 0.00 - 1.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867128-
Date Acquired : 04/01/19 18:40:43
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

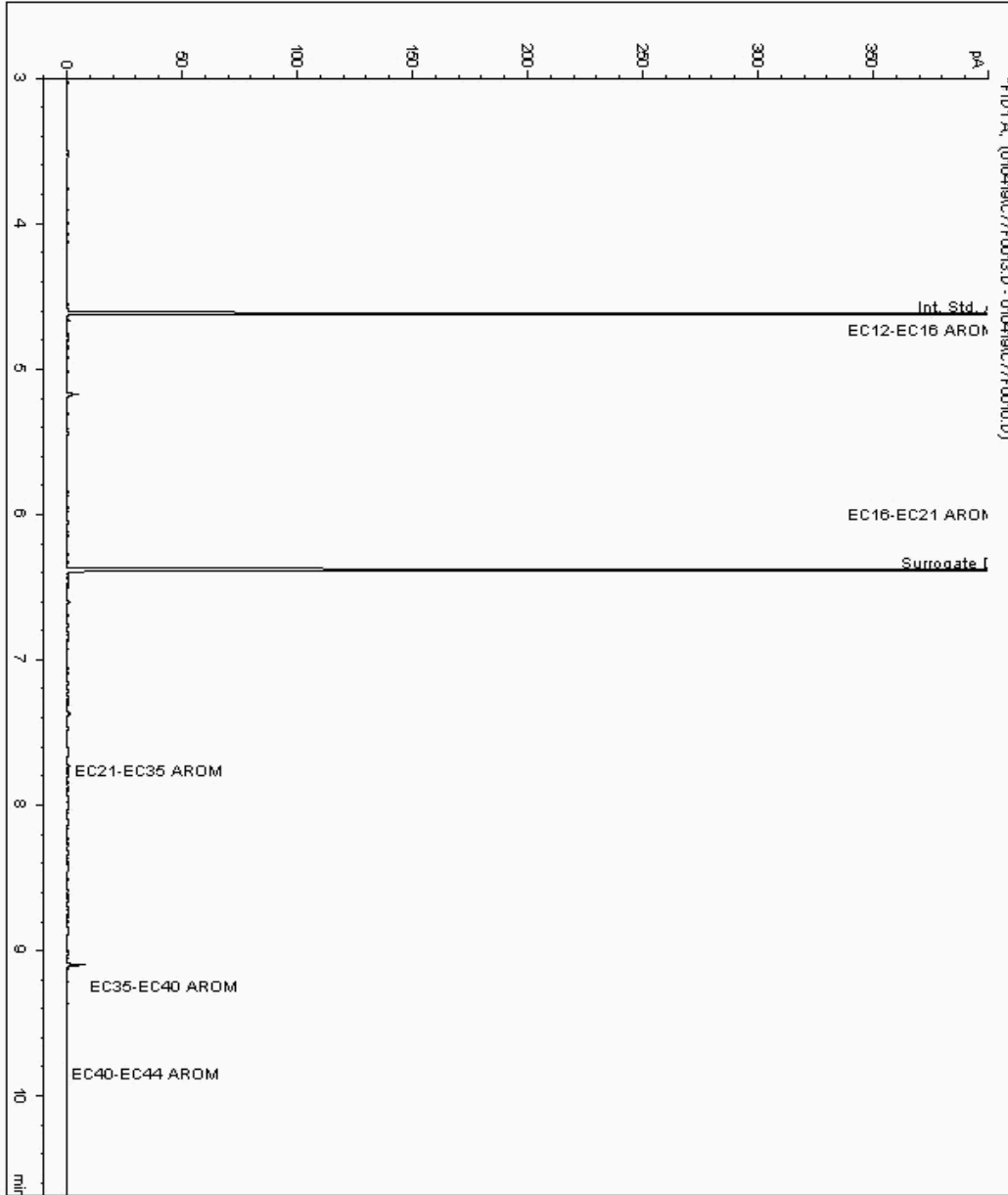
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021249
Sample ID : BH205

Depth : 8.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868366-
Date Acquired : 1/4/2019 12:57:54 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

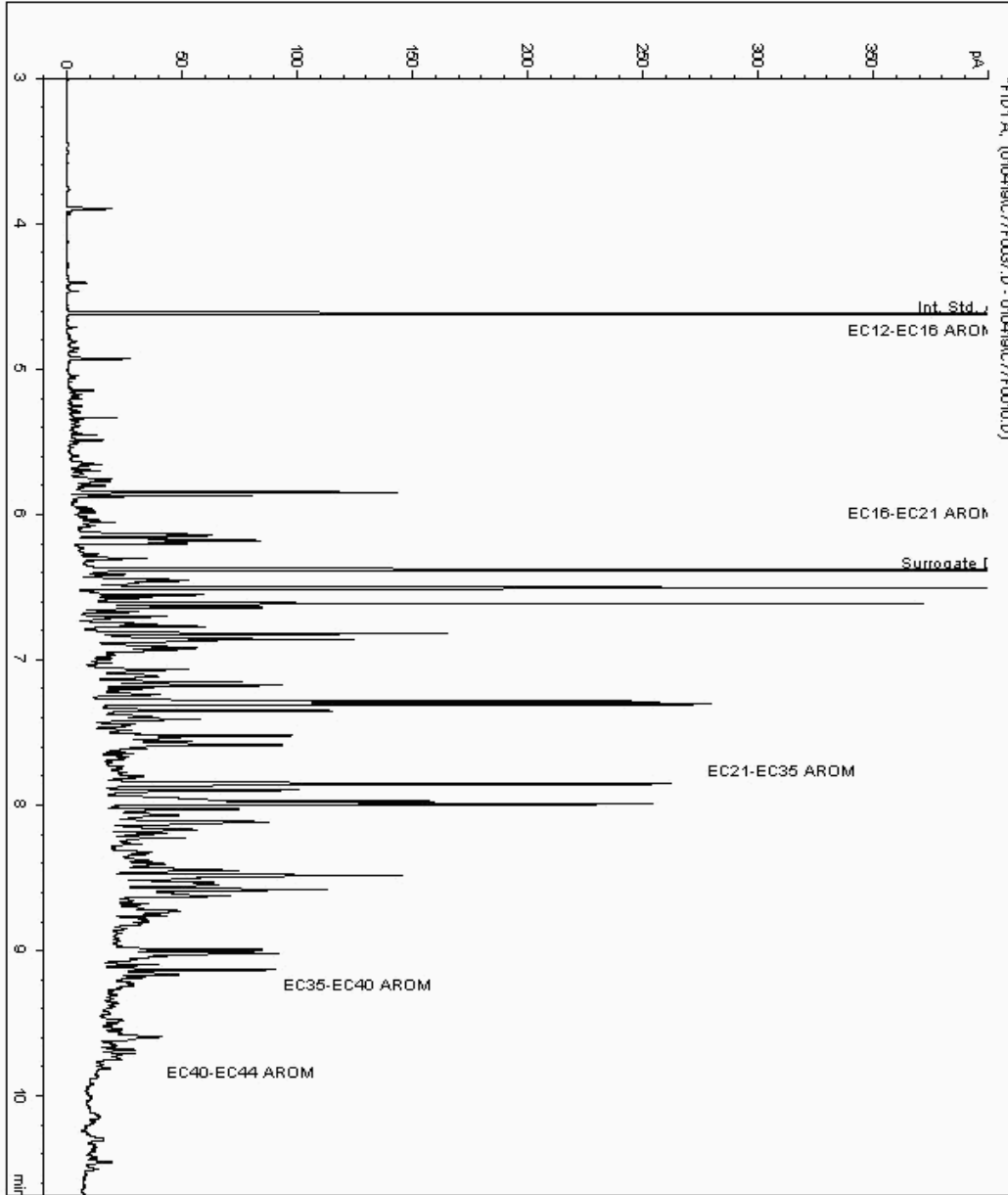
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021335
Sample ID : BH202

Depth : 0.50 - 1.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867566-
Date Acquired : 1/4/2019 7:38:29 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

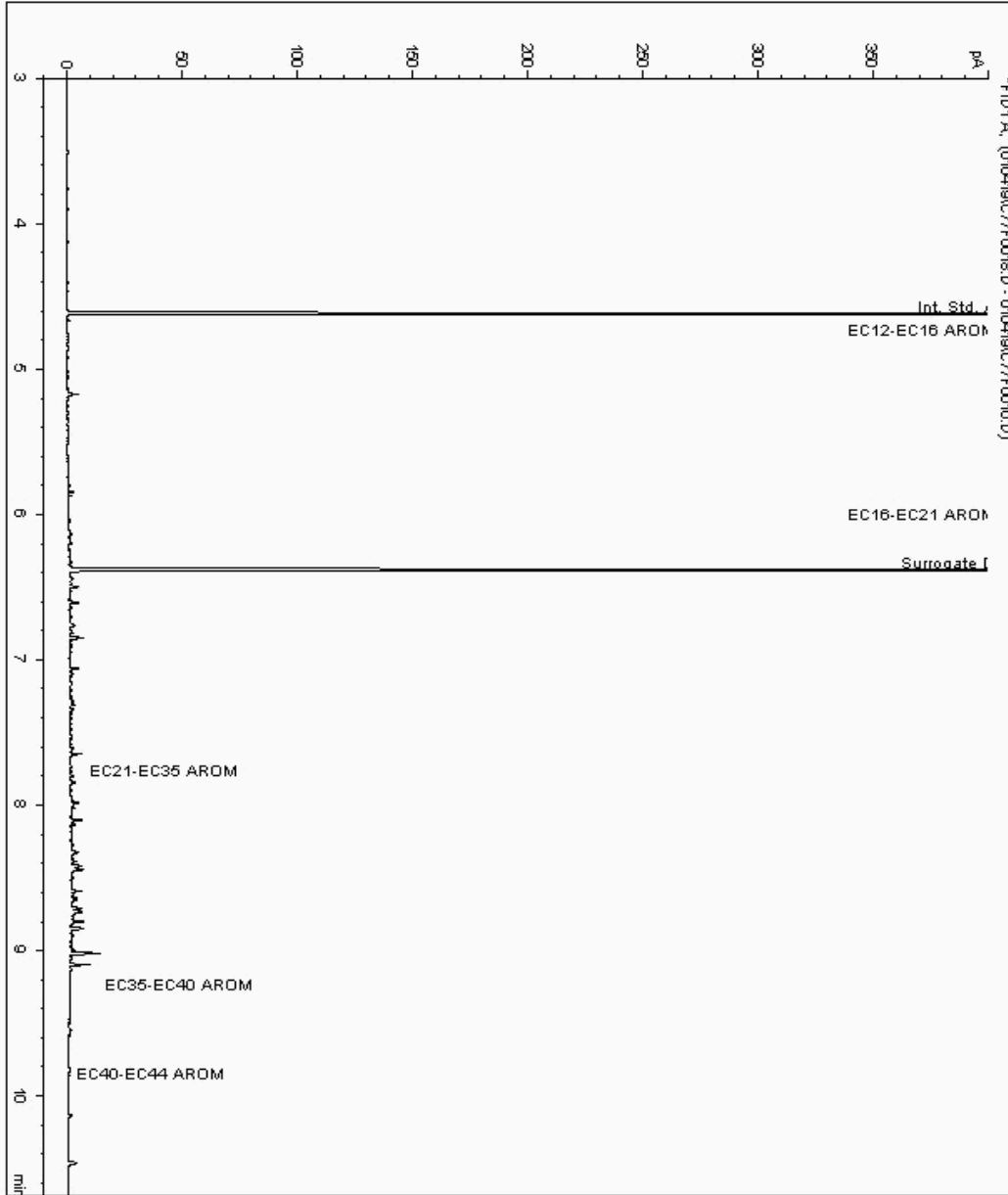
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021397
Sample ID : BH205

Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868203-
Date Acquired : 1/4/2019 2:28:12 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

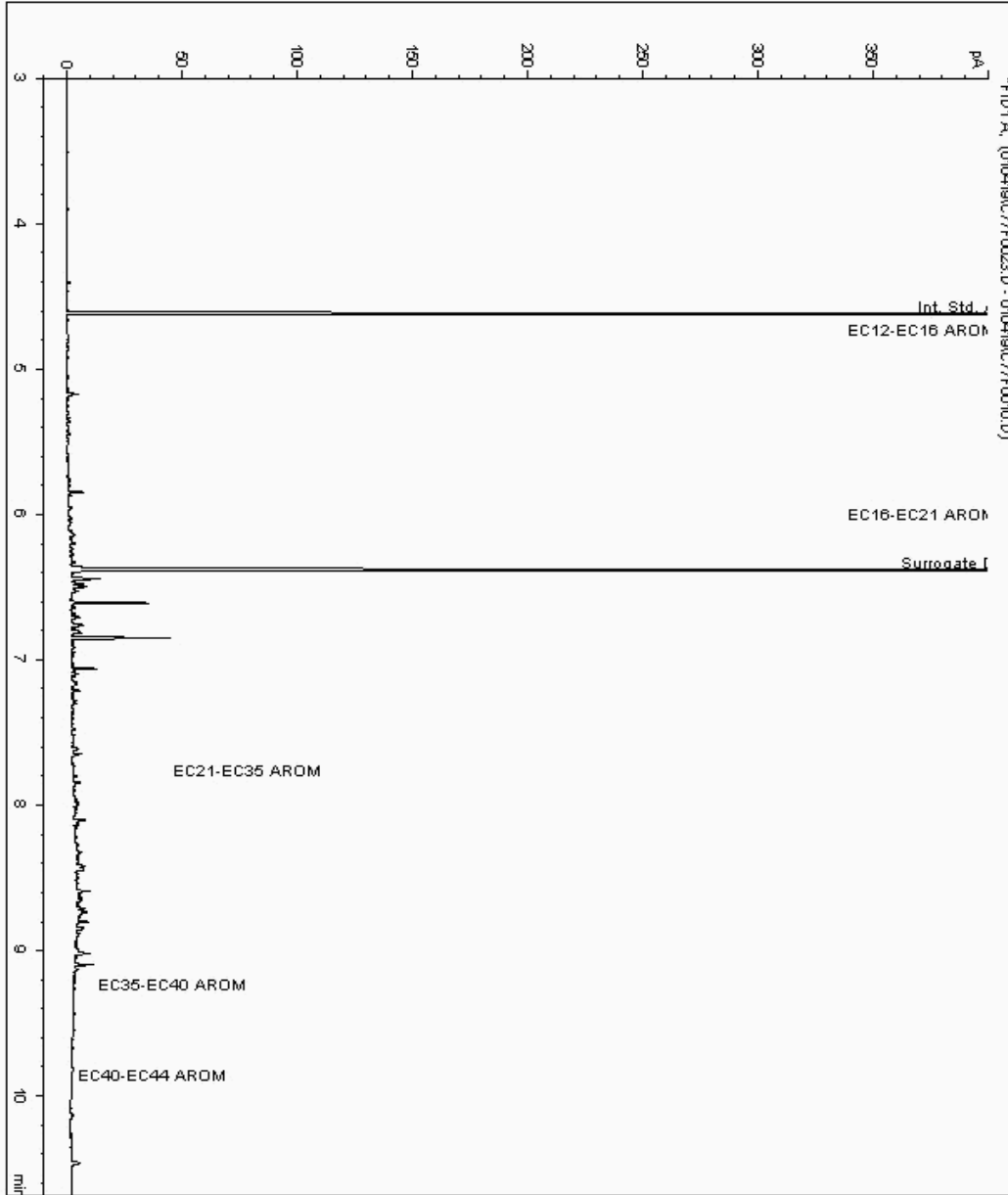
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021425
Sample ID : BH201

Depth : 6.00 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867394-
Date Acquired : 1/4/2019 3:50:43 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

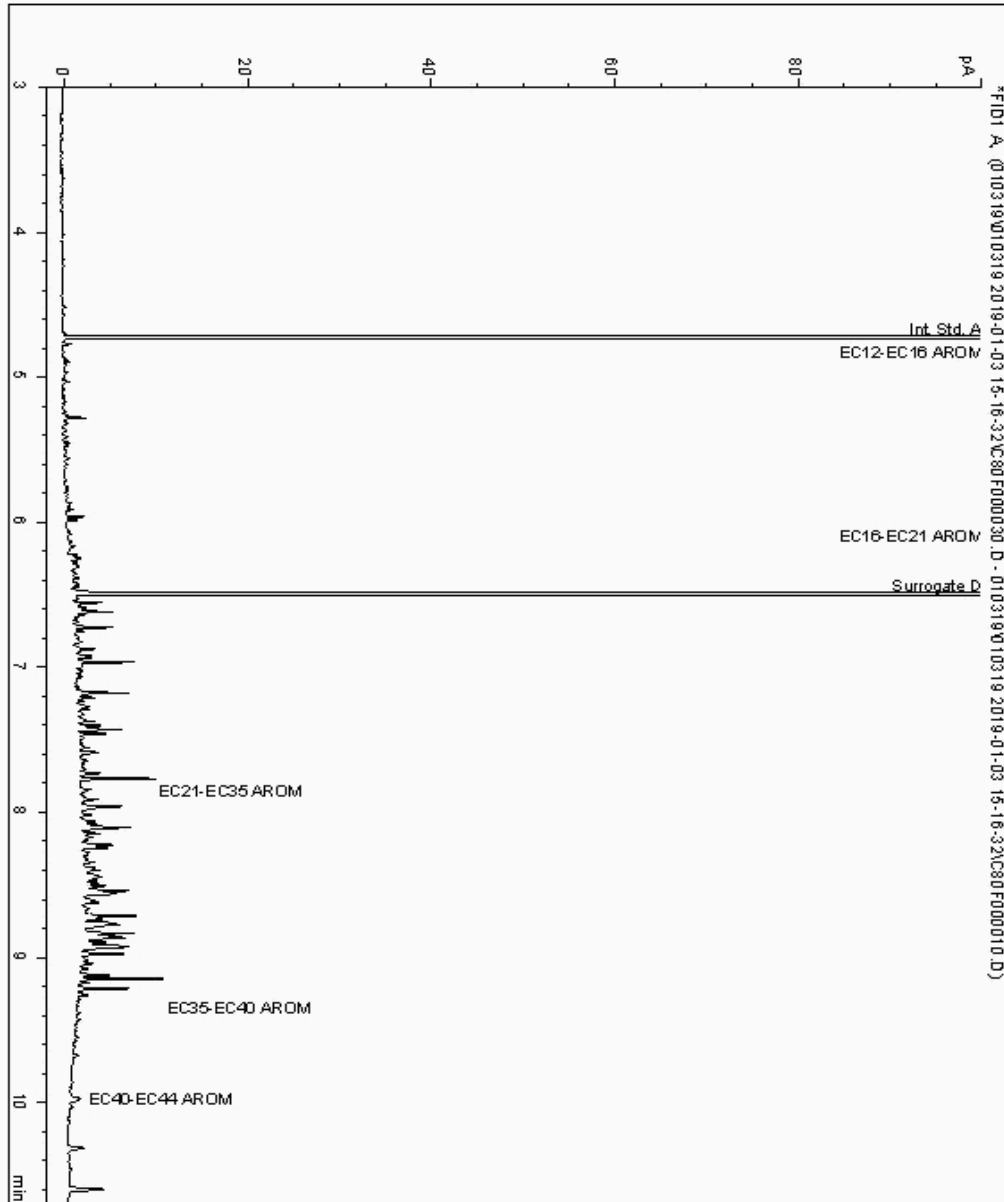
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021504
Sample ID : BH205

Depth : 2.00 - 3.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868178-
Date Acquired : 03/01/19 21:57:06
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

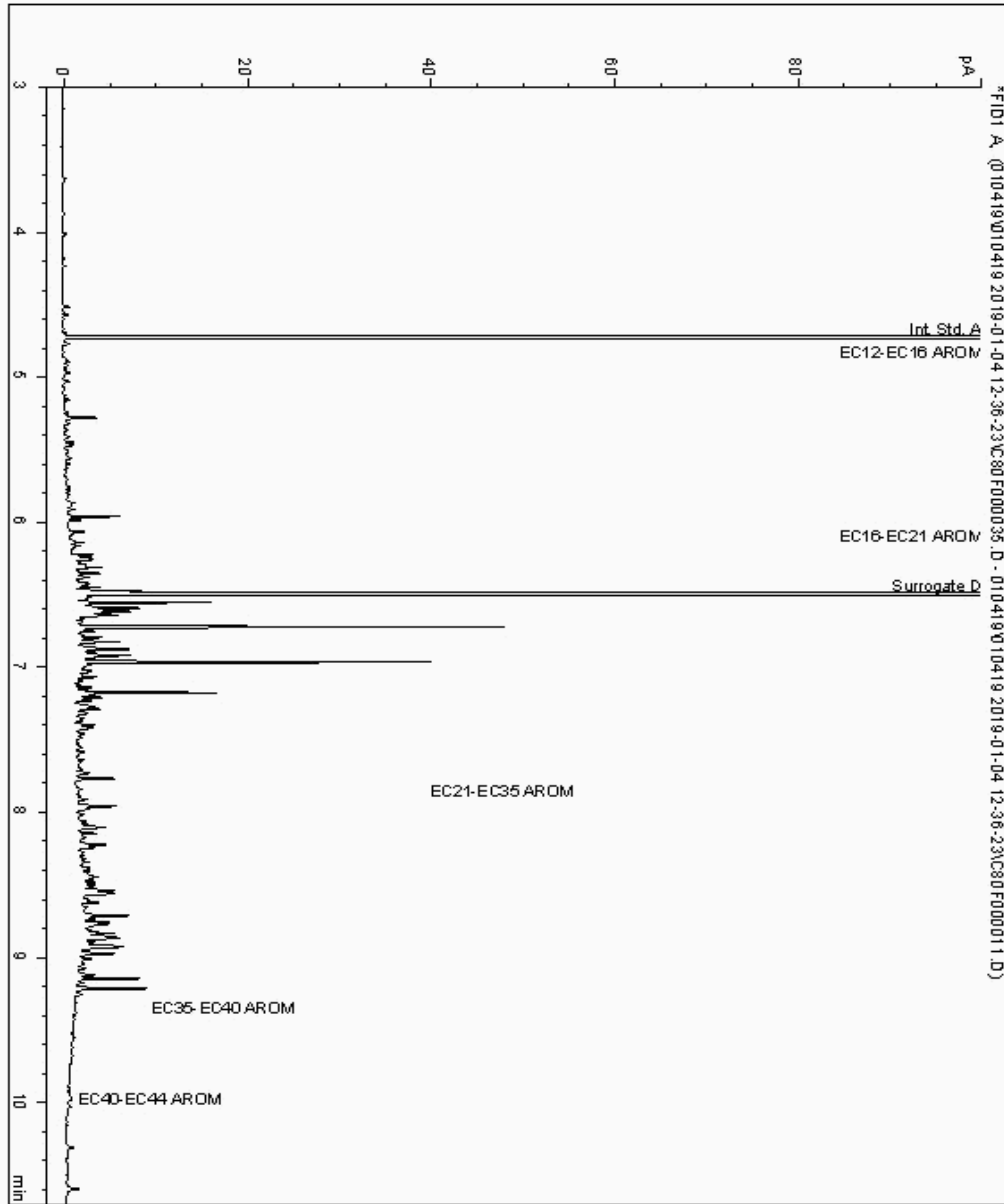
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021539
Sample ID : BH201

Depth : 5.00 - 6.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867319-
Date Acquired : 04/01/19 20:43:07
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

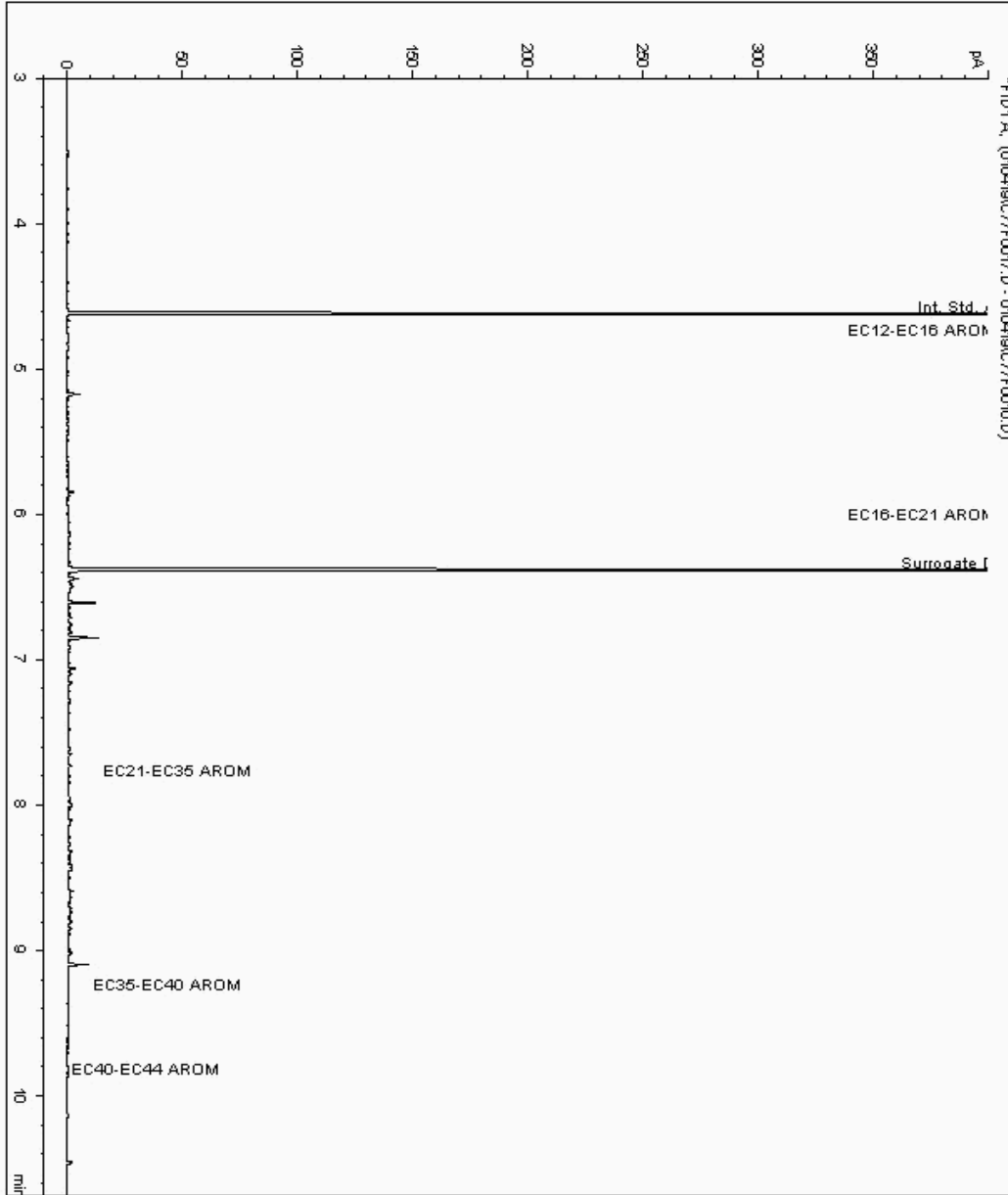
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021608
Sample ID : BH201

Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867421-
Date Acquired : 1/4/2019 2:08:32 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

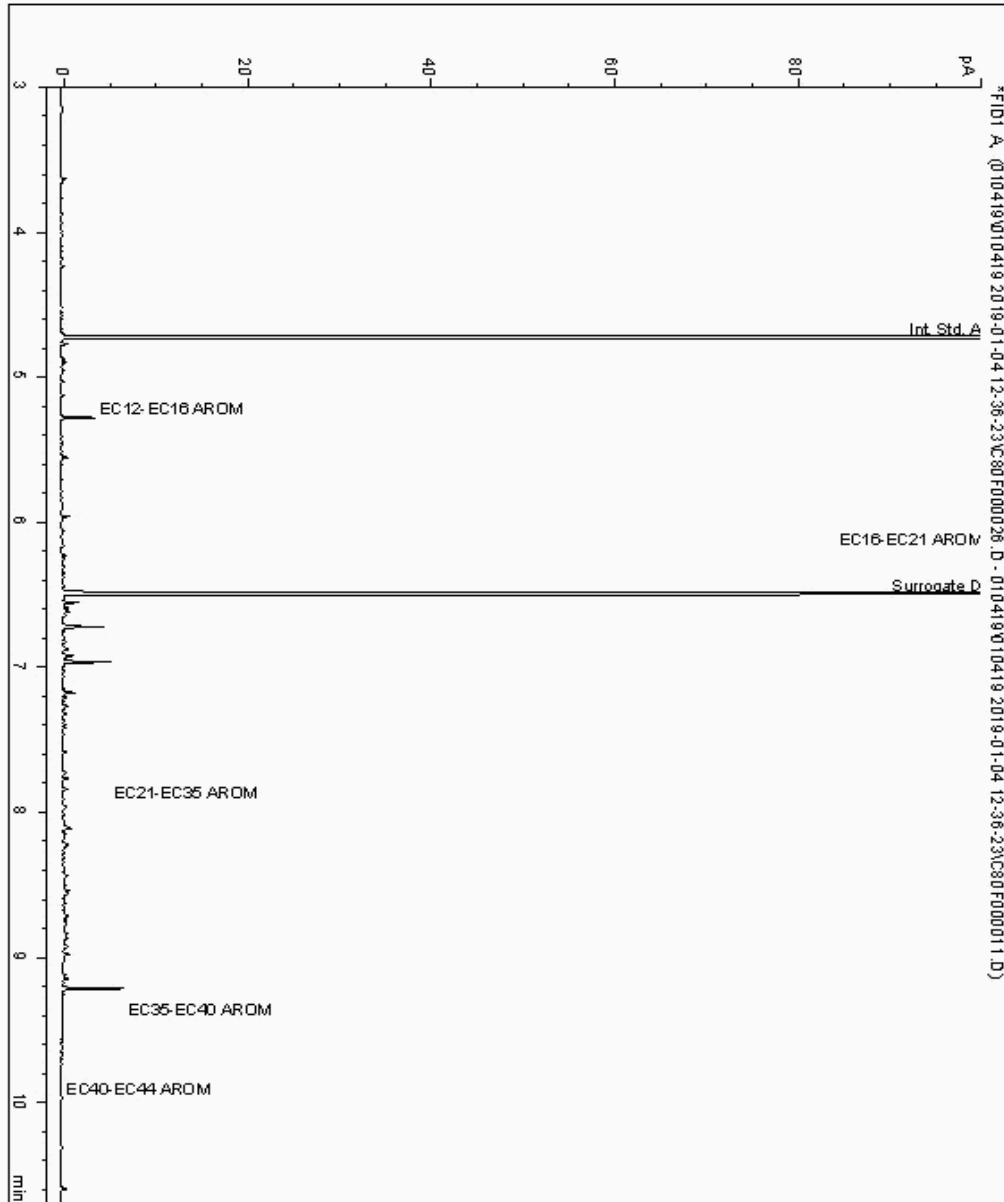
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021692
Sample ID : BH201

Depth : 8.00 - 9.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867445-
Date Acquired : 04/01/19 18:01:15
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

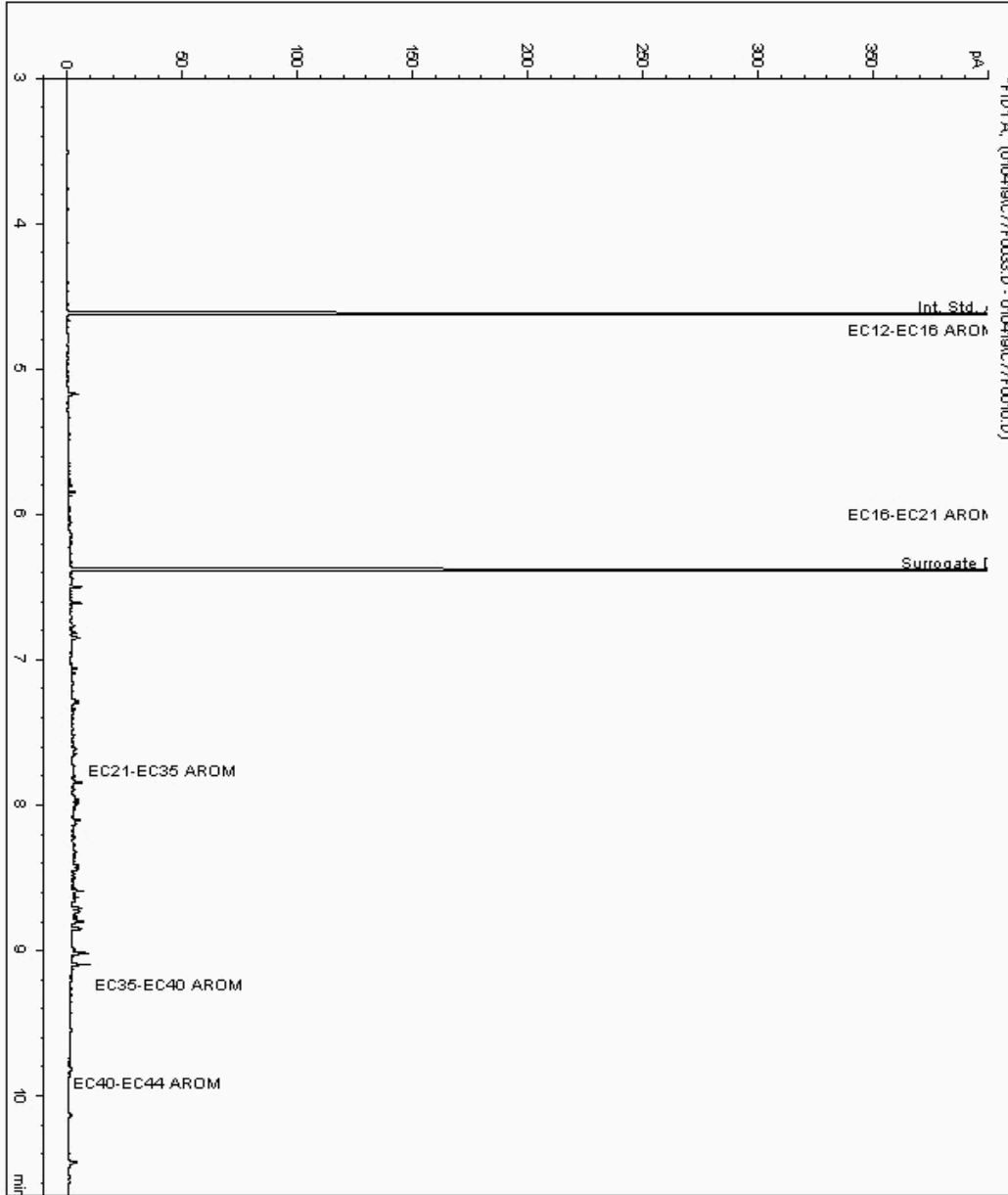
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021755
Sample ID : BH205

Depth : 1.50 - 2.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868142-
Date Acquired : 1/4/2019 6:27:56 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

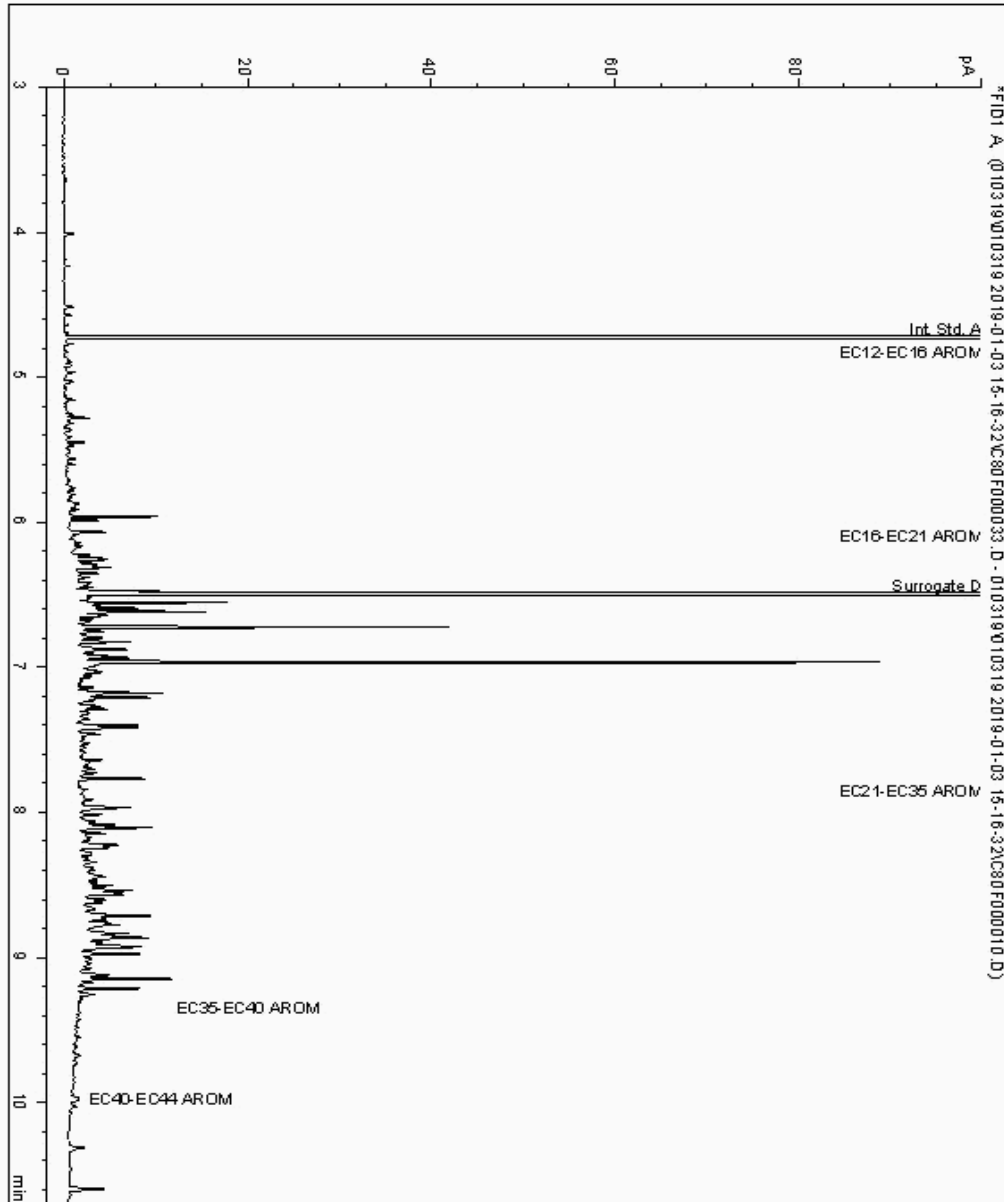
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021824
Sample ID : BH201

Depth : 3.00 - 4.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867195-
Date Acquired : 03/01/19 22:48:03
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

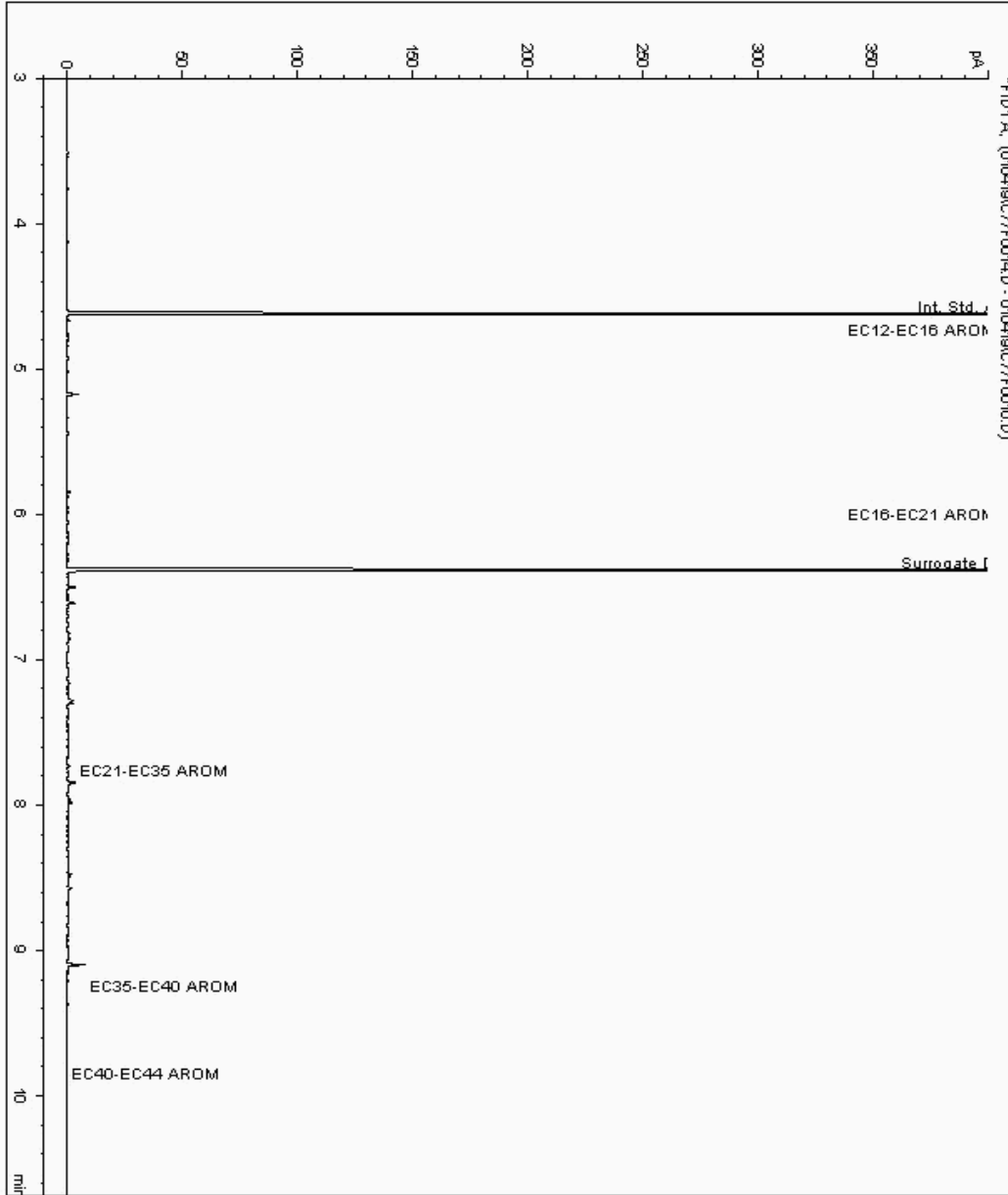
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021861
Sample ID : BH203

Depth : 7.00 - 8.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867964-
Date Acquired : 1/4/2019 1:17:26 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

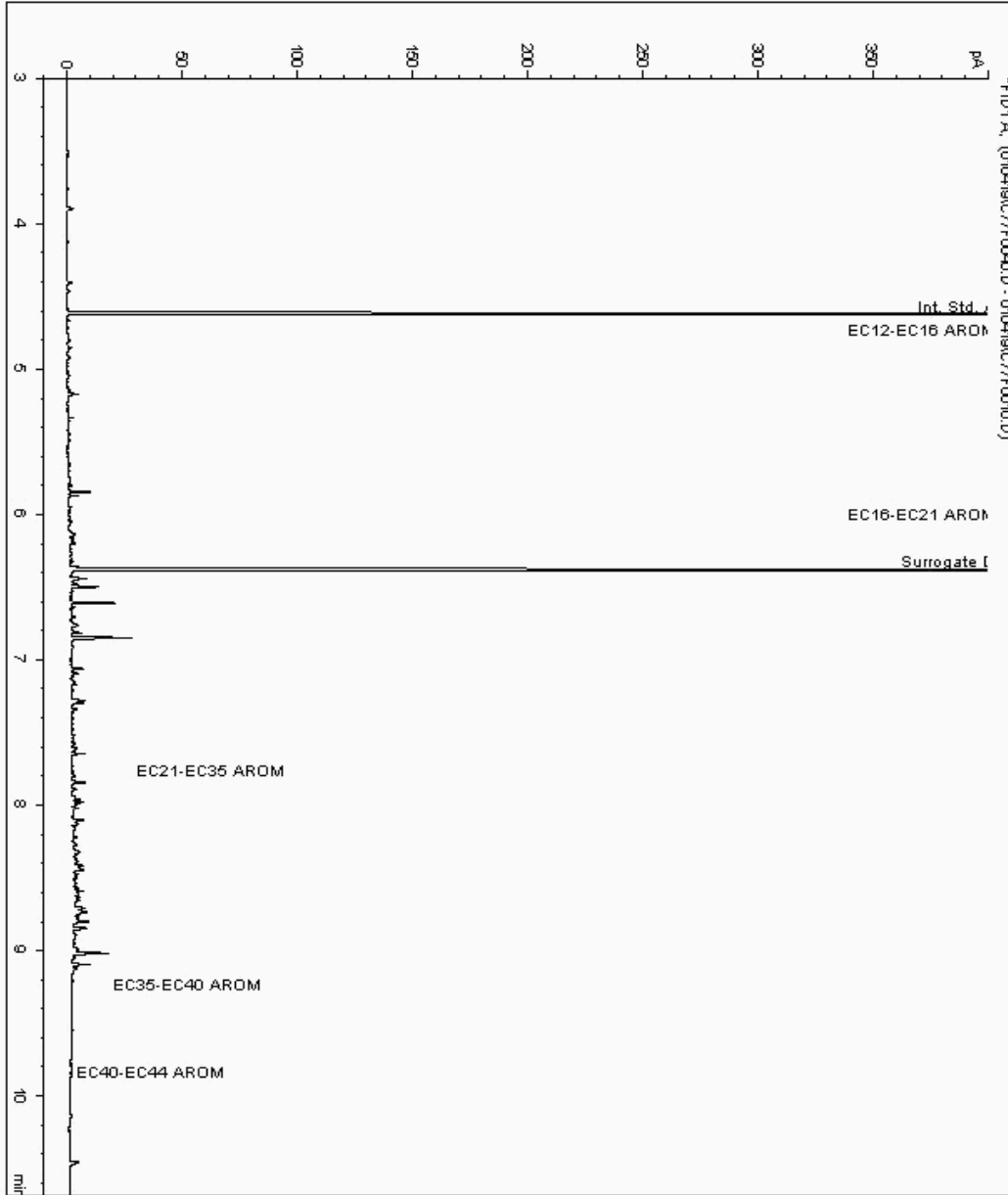
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021914
Sample ID : BH202

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867601-
Date Acquired : 1/4/2019 8:21:28 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

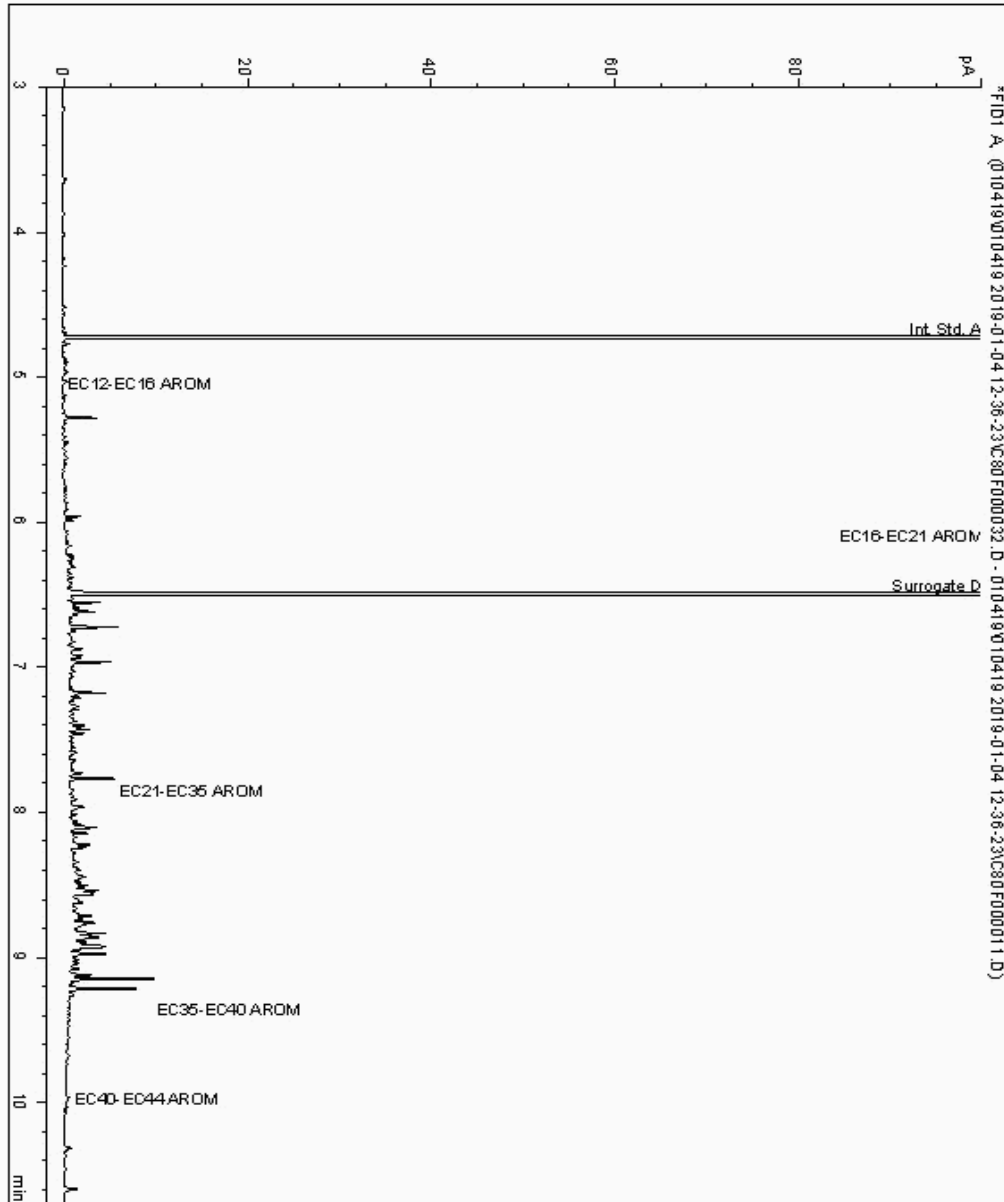
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021963
Sample ID : BH205

Depth : 4.00 - 5.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868229-
Date Acquired : 04/01/19 19:51:55
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

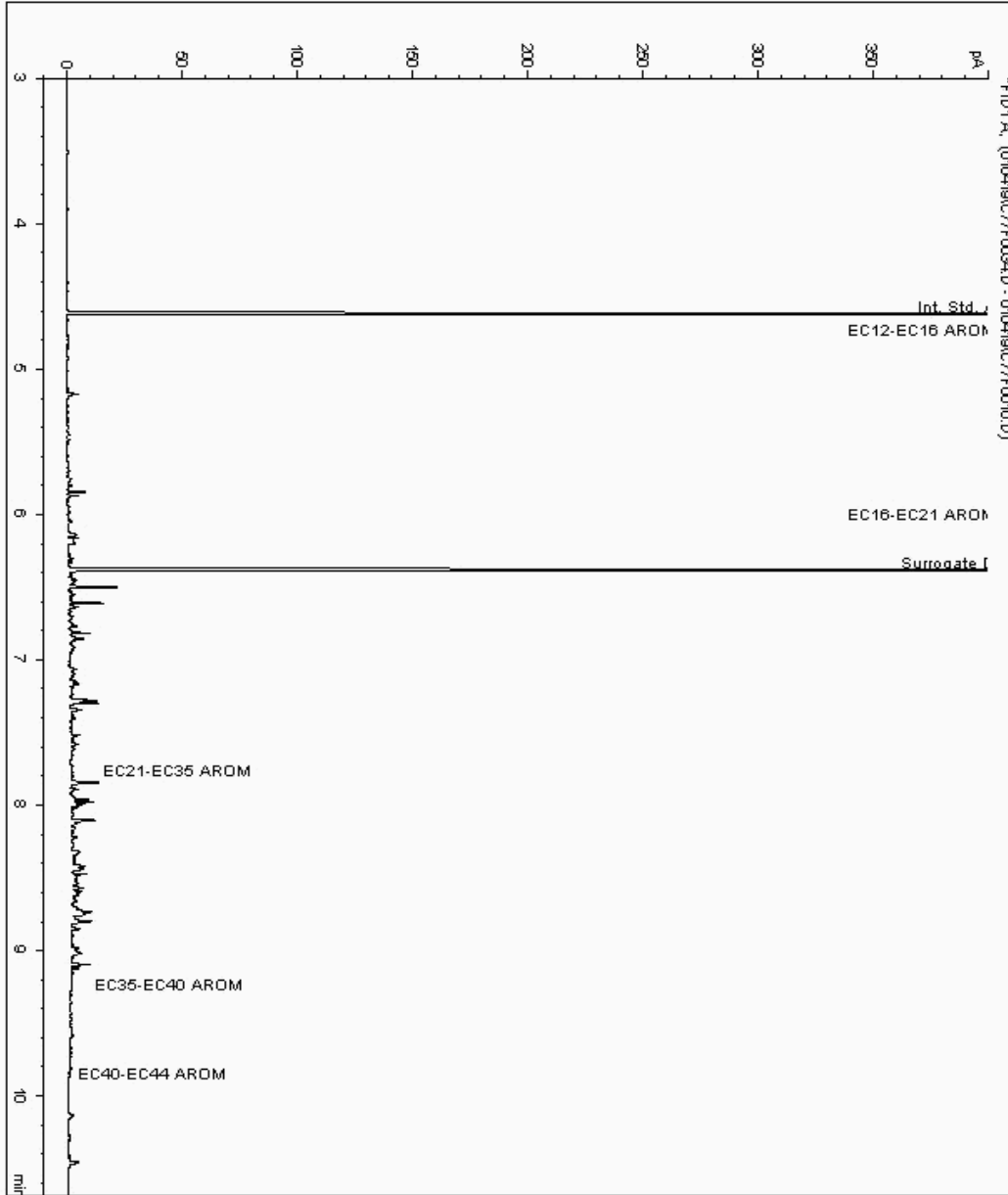
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021993
Sample ID : BH202

Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867499-
Date Acquired : 1/4/2019 6:47:33 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

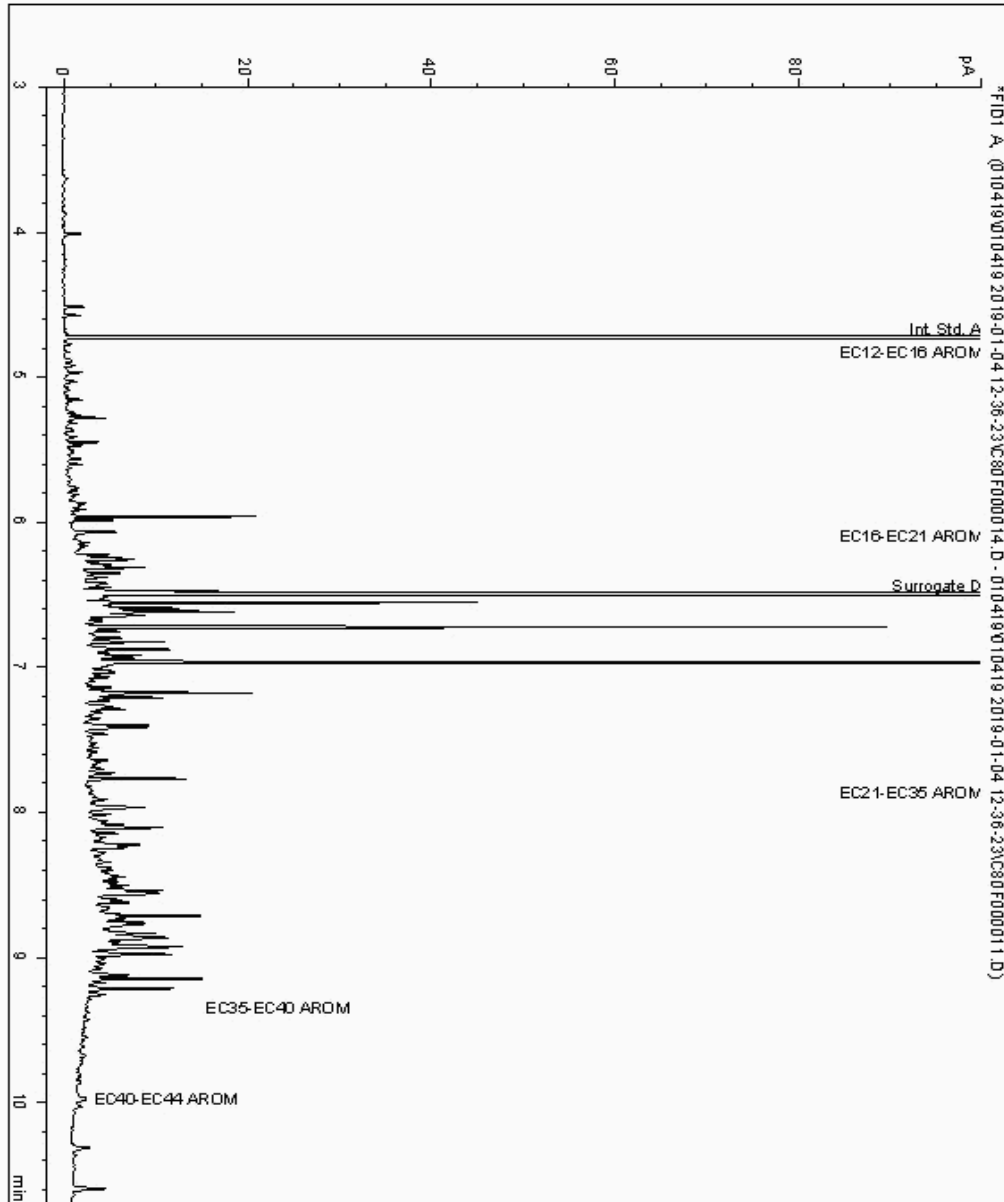
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022032
Sample ID : BH201

Depth : 4.00 - 5.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867231-
Date Acquired : 04/01/19 14:51:54
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

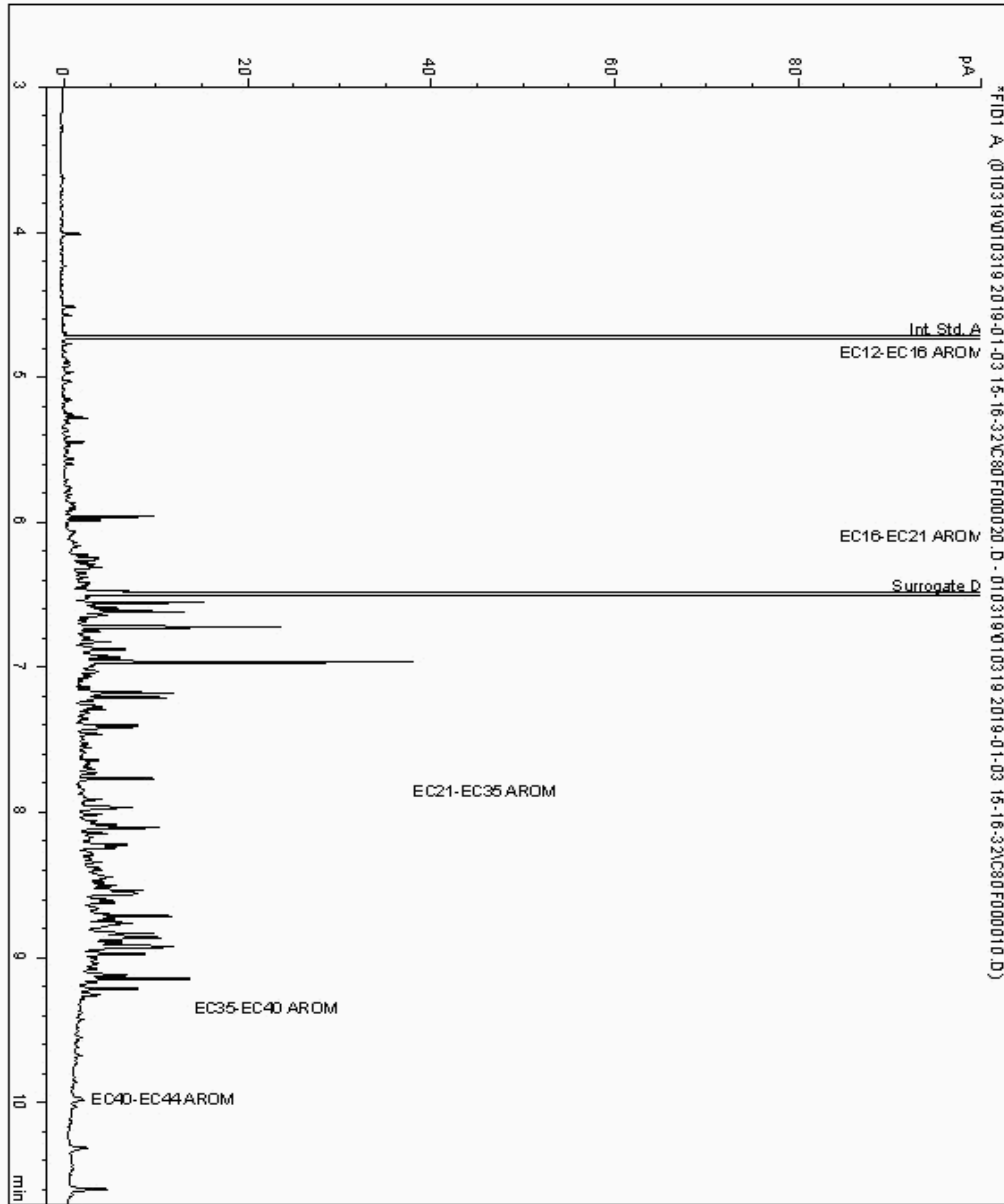
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022084
Sample ID : BH202

Depth : 3.00 - 4.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867627-
Date Acquired : 03/01/19 18:56:49
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

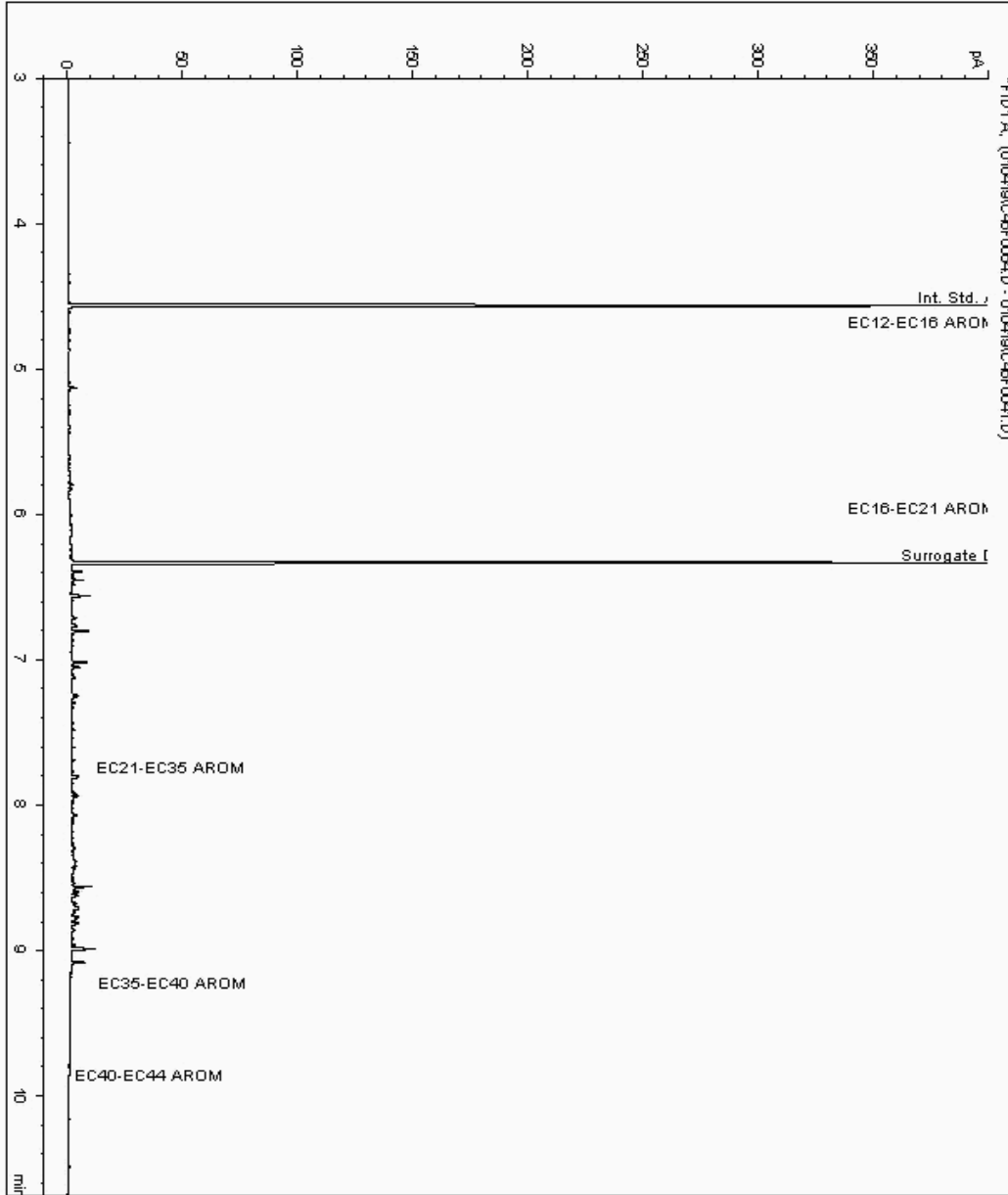
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022147
Sample ID : BH210

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868882-
Date Acquired : 05/01/2019 05:56:45 PM
Units : ppb
Dilution: BH210[2.00 - 3.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

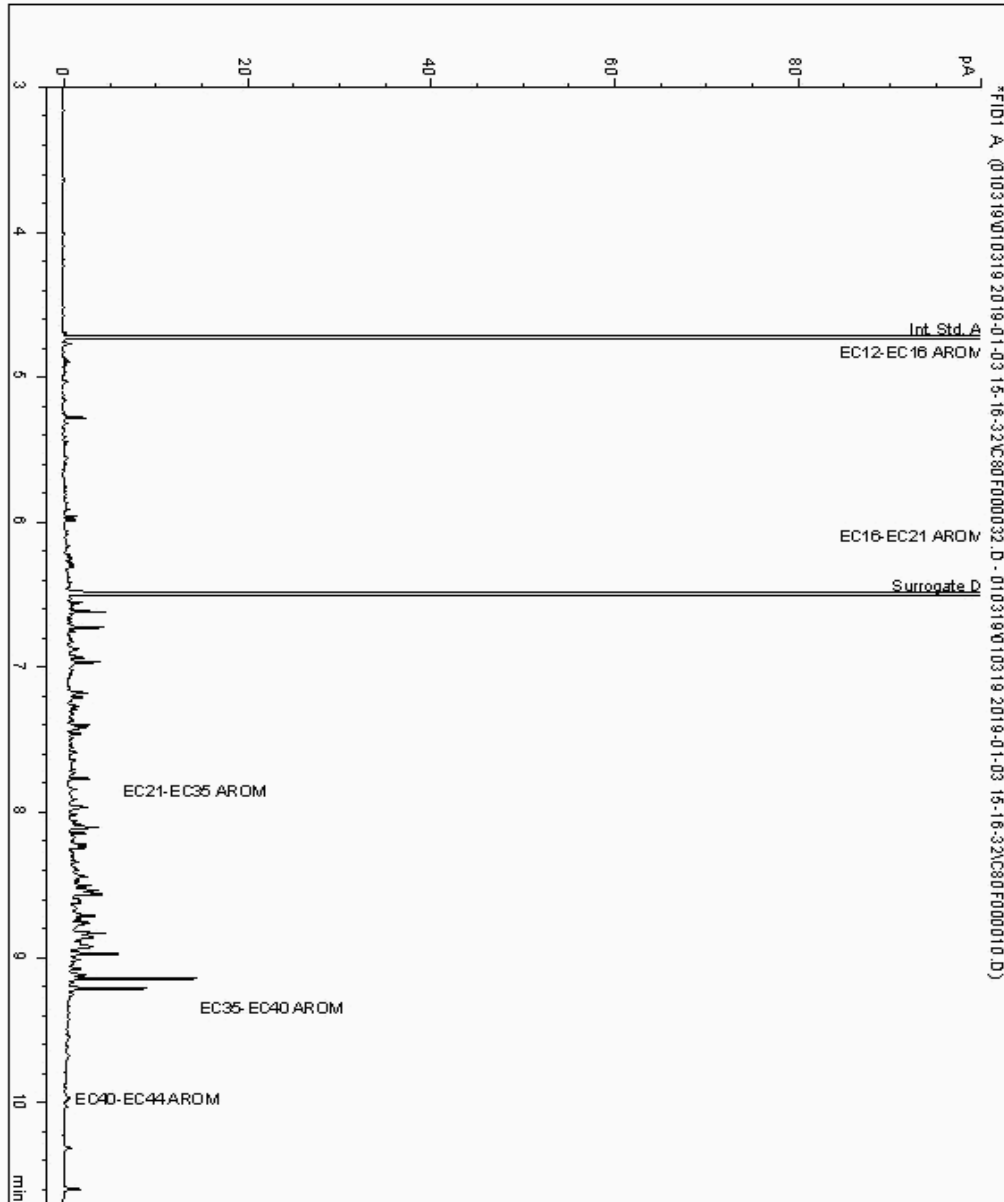
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022189
Sample ID : BH201

Depth : 1.00 - 2.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867162-
Date Acquired : 03/01/19 22:28:27
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

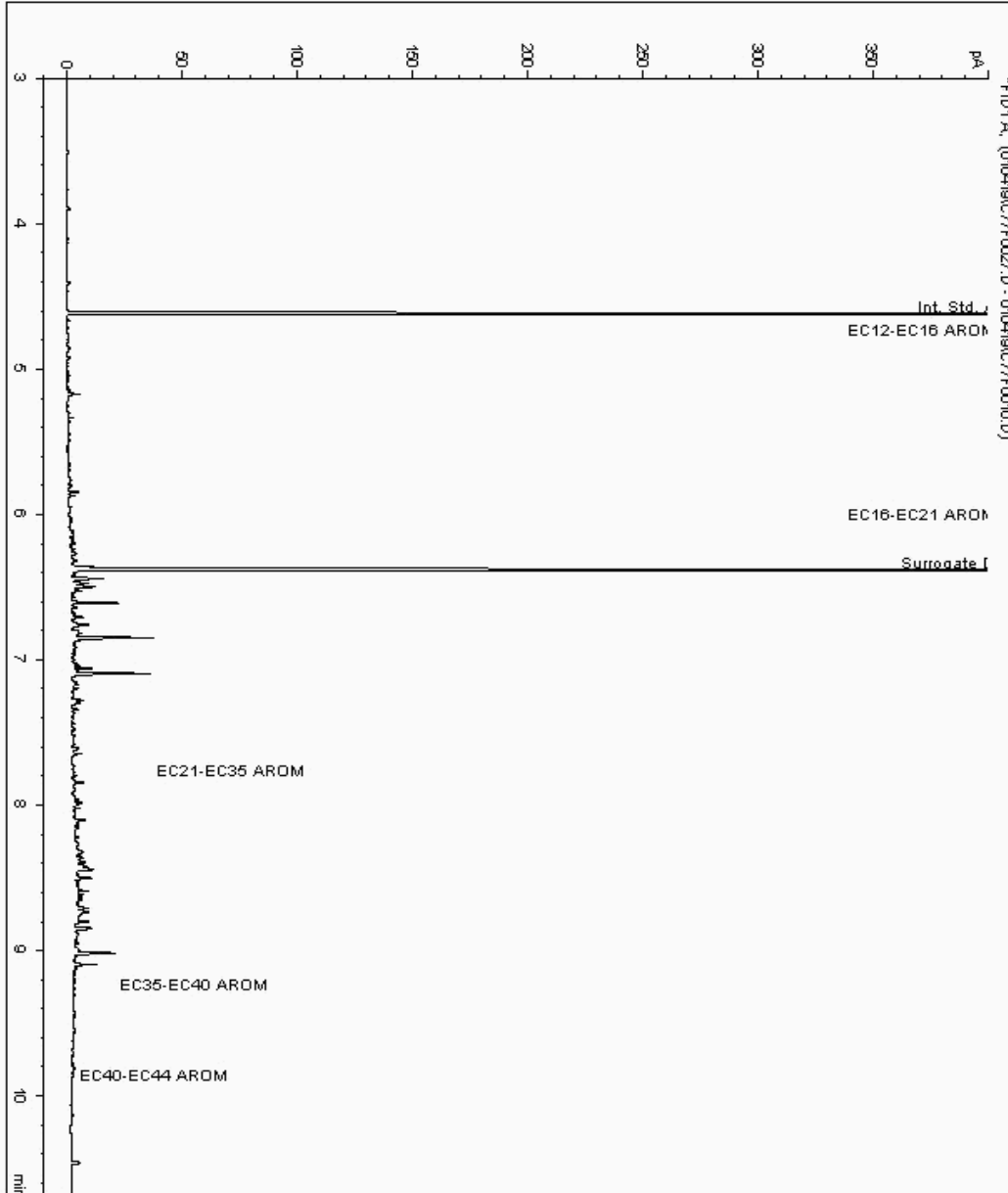
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022219
Sample ID : BH203

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17867811-
Date Acquired : 1/4/2019 4:53:34 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

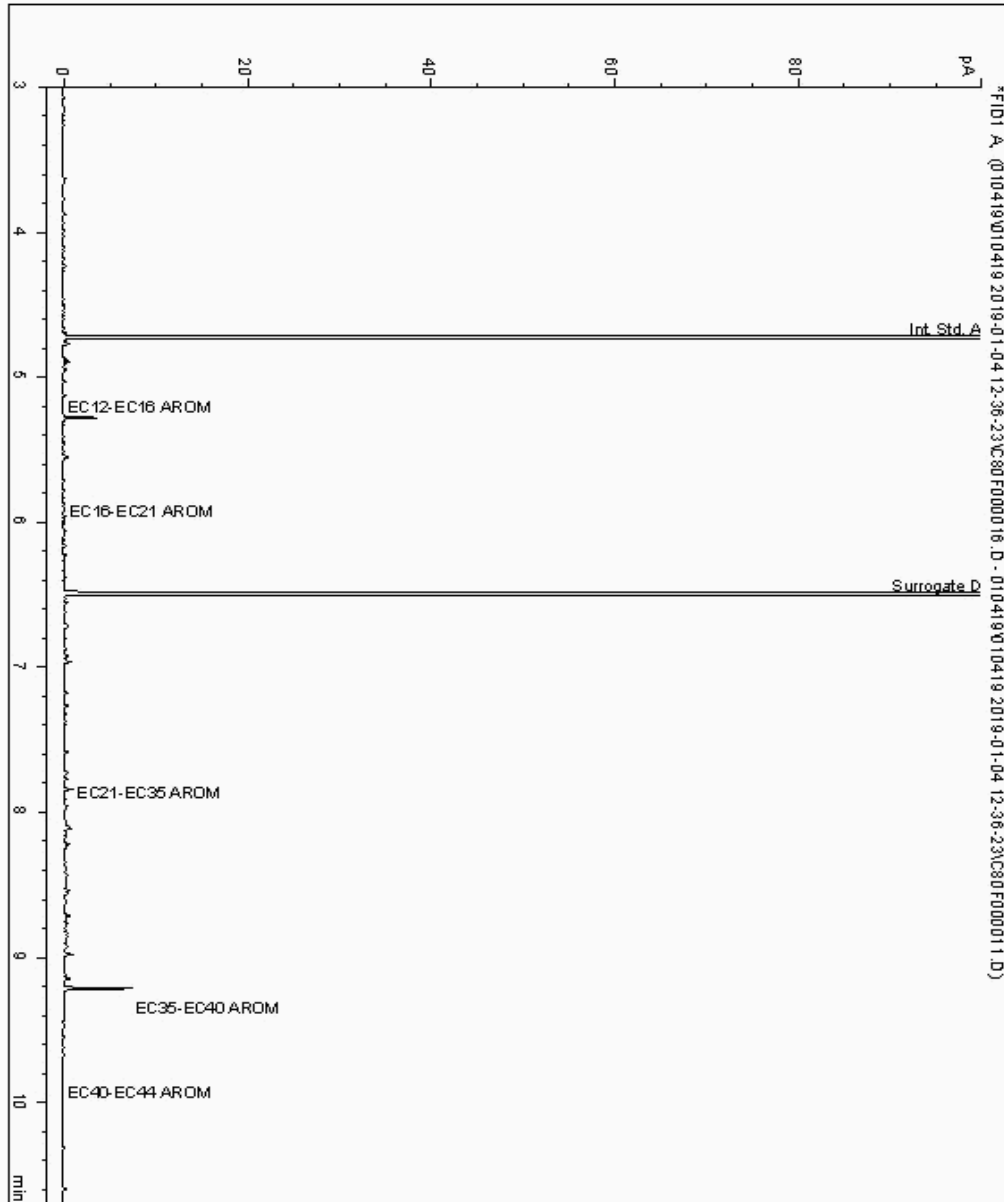
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022312
Sample ID : BH203

Depth : 5.00 - 6.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17867893-
Date Acquired : 04/01/19 15:23:49
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

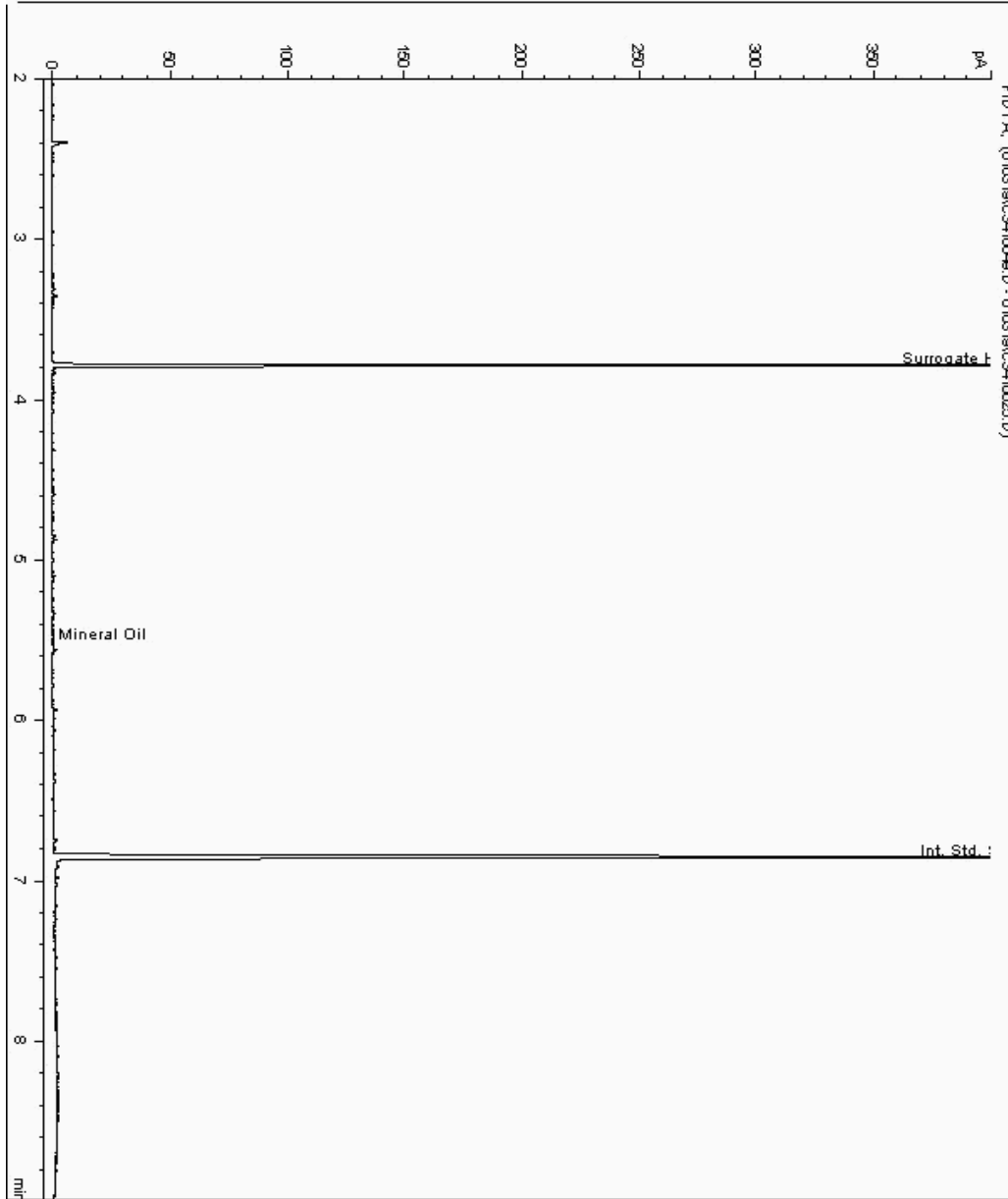
Analysis: Mineral Oil

Sample No : 19017547
Sample ID : BH210

Depth : 0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868679-
Date Acquired : 04/01/19 00:02:10 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

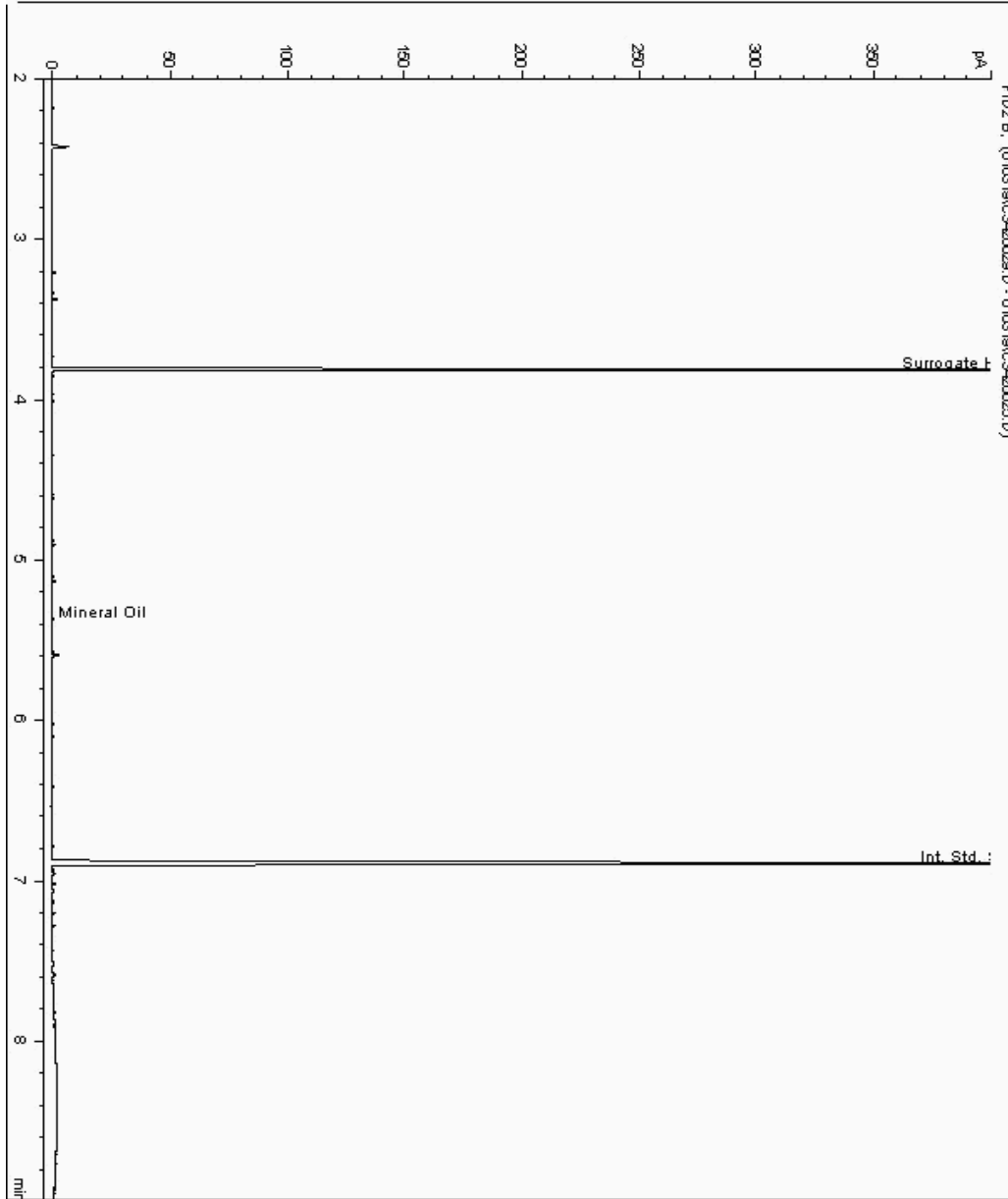
Analysis: Mineral Oil

Sample No : 19018274
Sample ID : BH203

Depth : 0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867753-
Date Acquired : 03/01/19 18:03:41 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

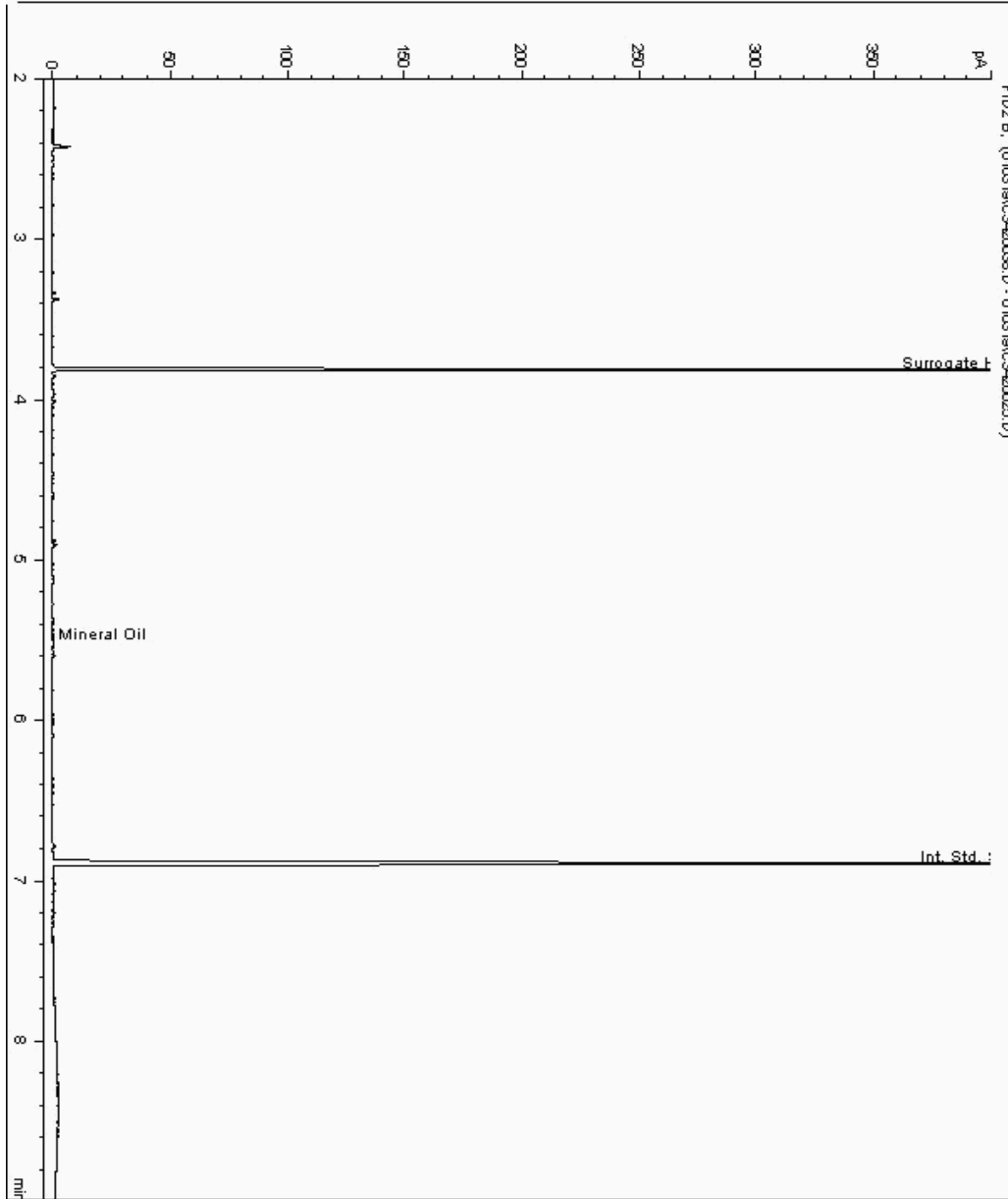
Analysis: Mineral Oil

Sample No : 19018388
Sample ID : BH203

Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867786-
Date Acquired : 03/01/19 20:47:04 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

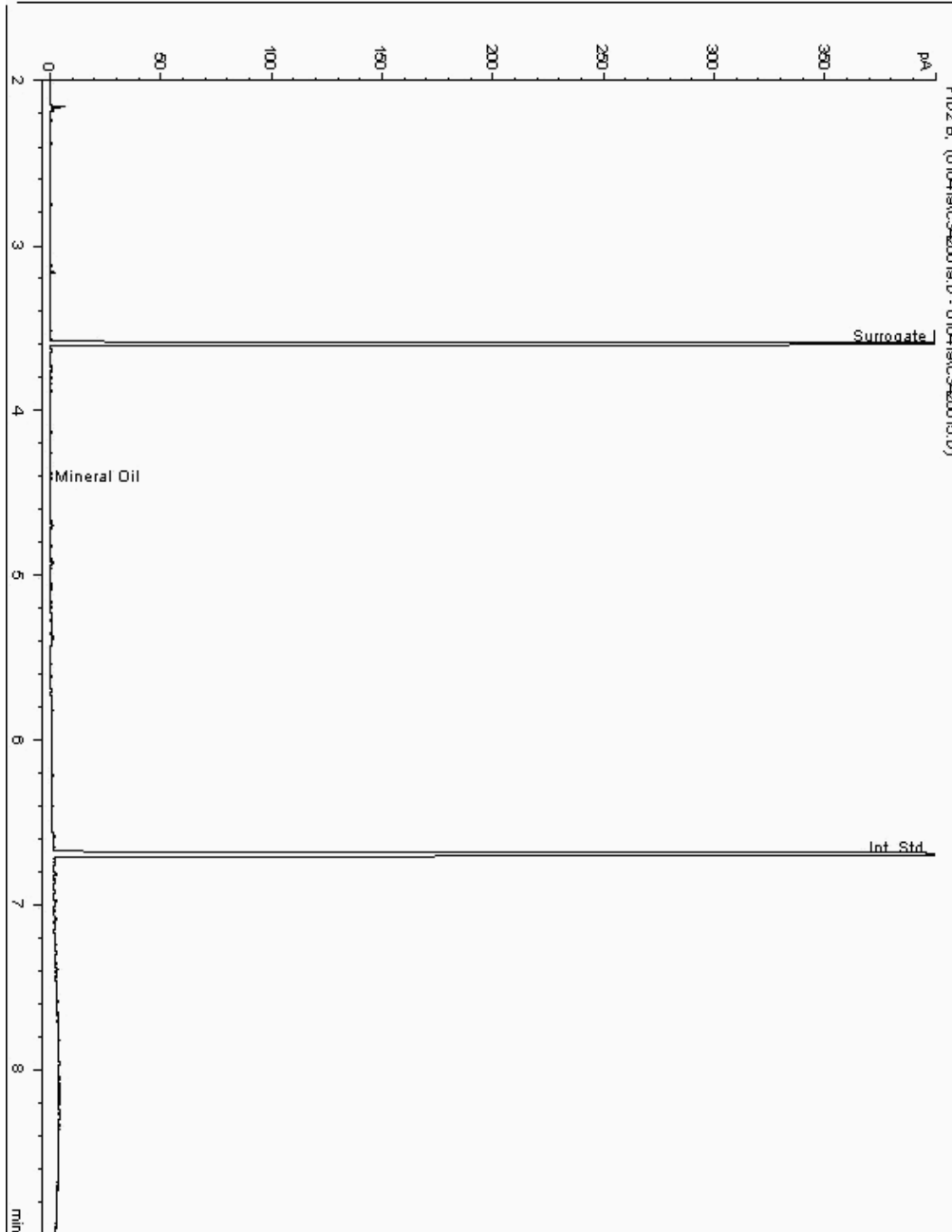
Analysis: Mineral Oil

Sample No : 19018552
Sample ID : BH210

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868996-
Date Acquired : 04/01/2019 19:57:53 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

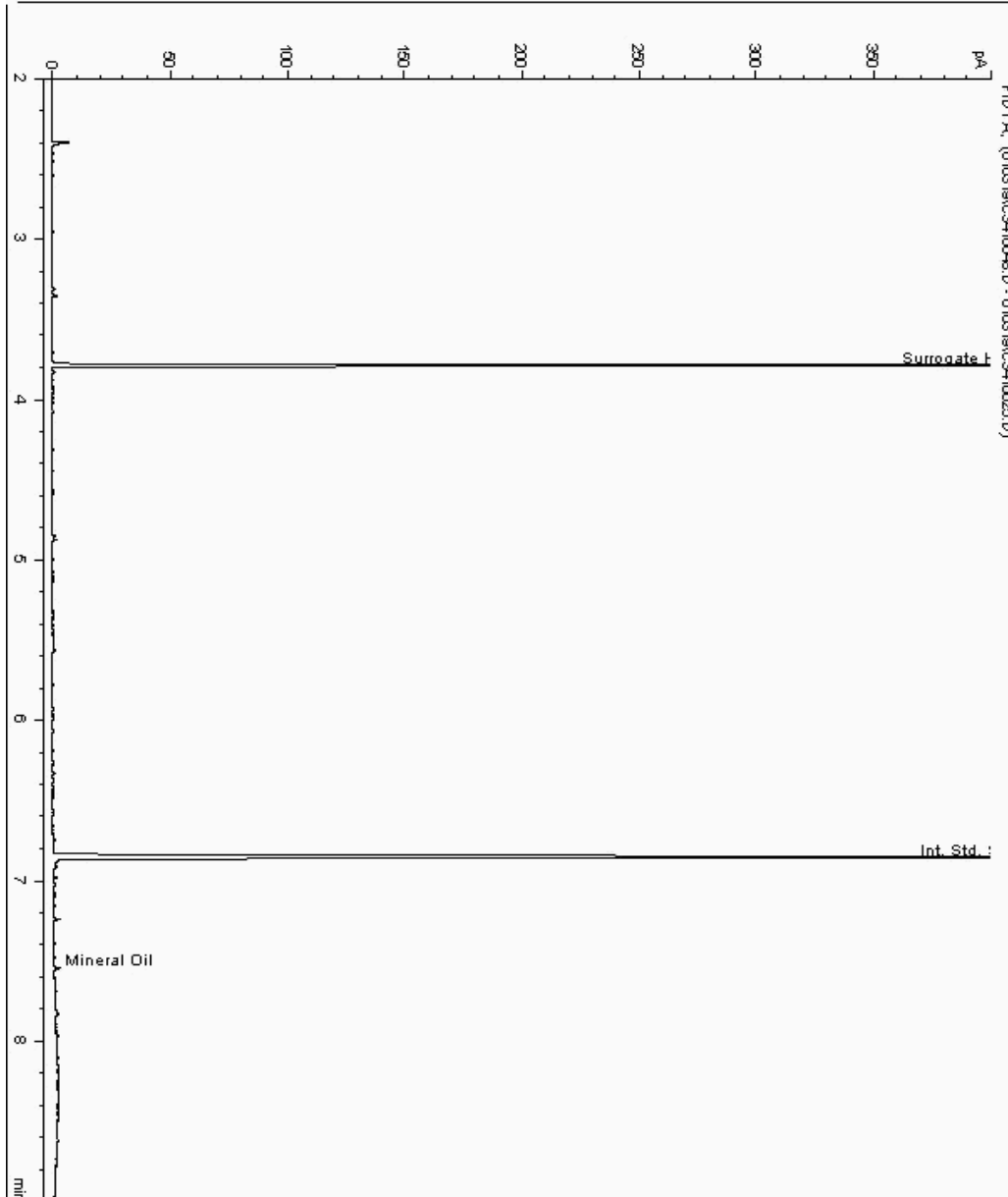
Analysis: Mineral Oil

Sample No : 19018714
Sample ID : BH210

Depth : 4.00 - 5.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869087-
Date Acquired : 03/01/19 23:42:18 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

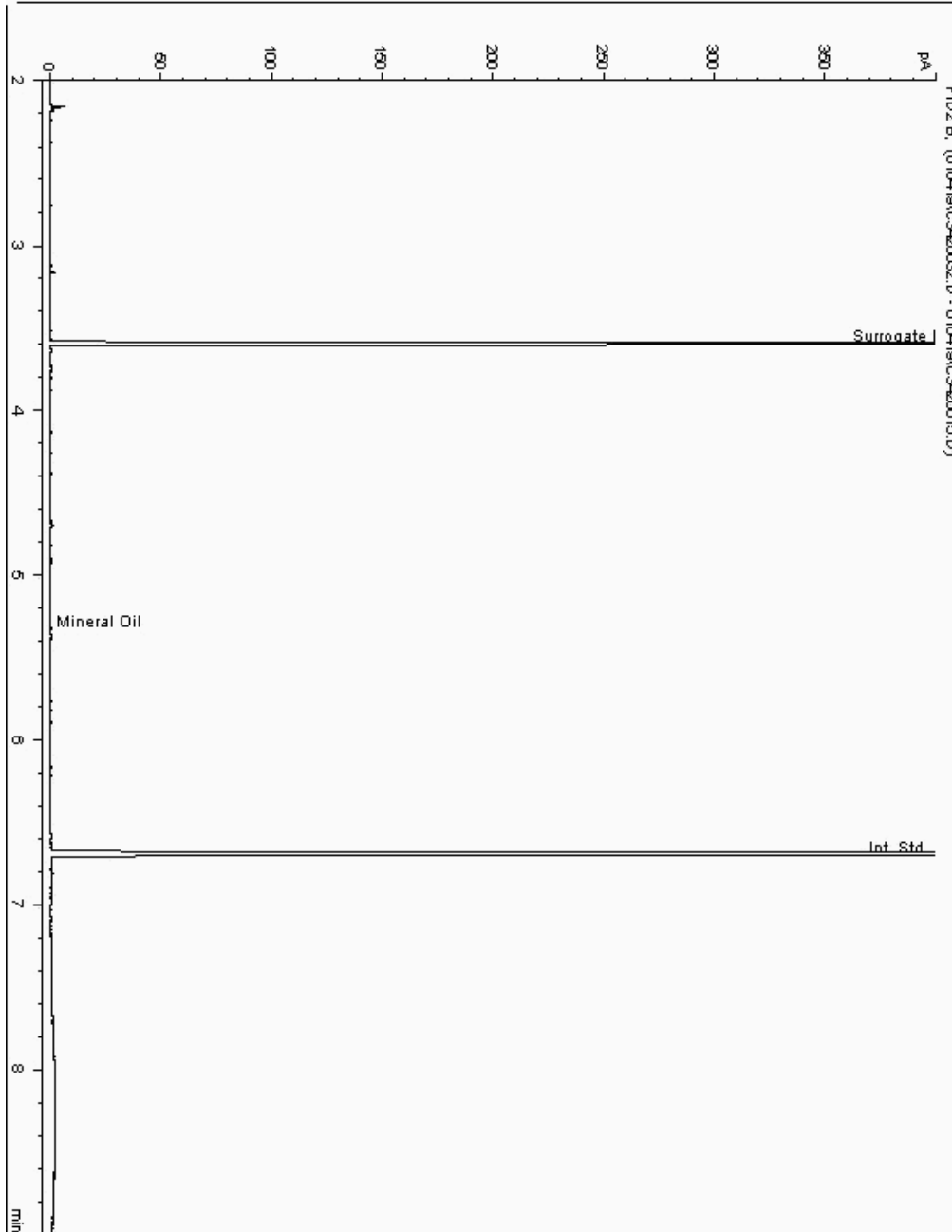
Analysis: Mineral Oil

Sample No : 19018815
Sample ID : BH210

Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868786-
Date Acquired : 04/01/2019 23:55:39 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

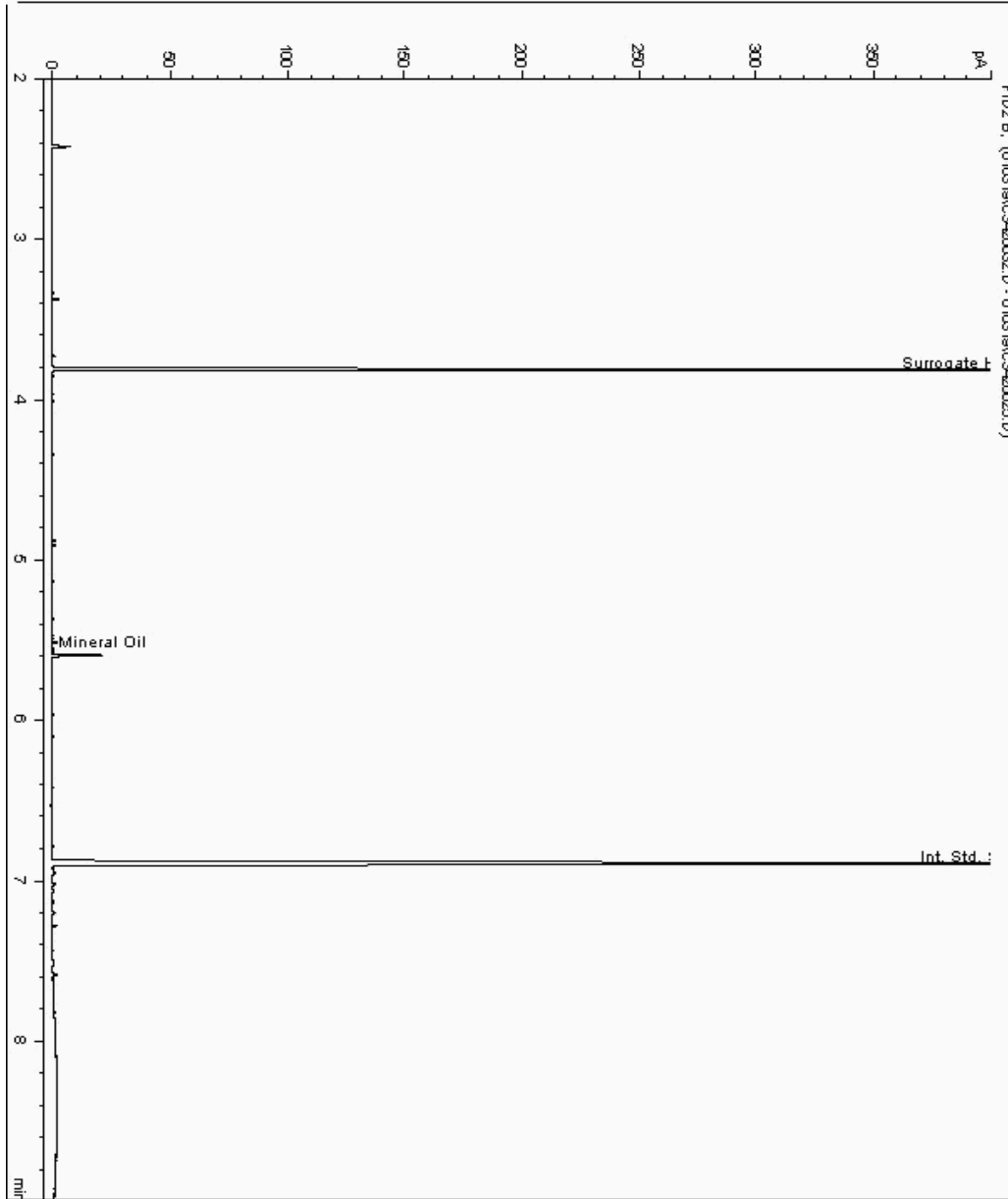
Analysis: Mineral Oil

Sample No : 19018970
Sample ID : BH203

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867840-
Date Acquired : 03/01/19 19:03:22 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

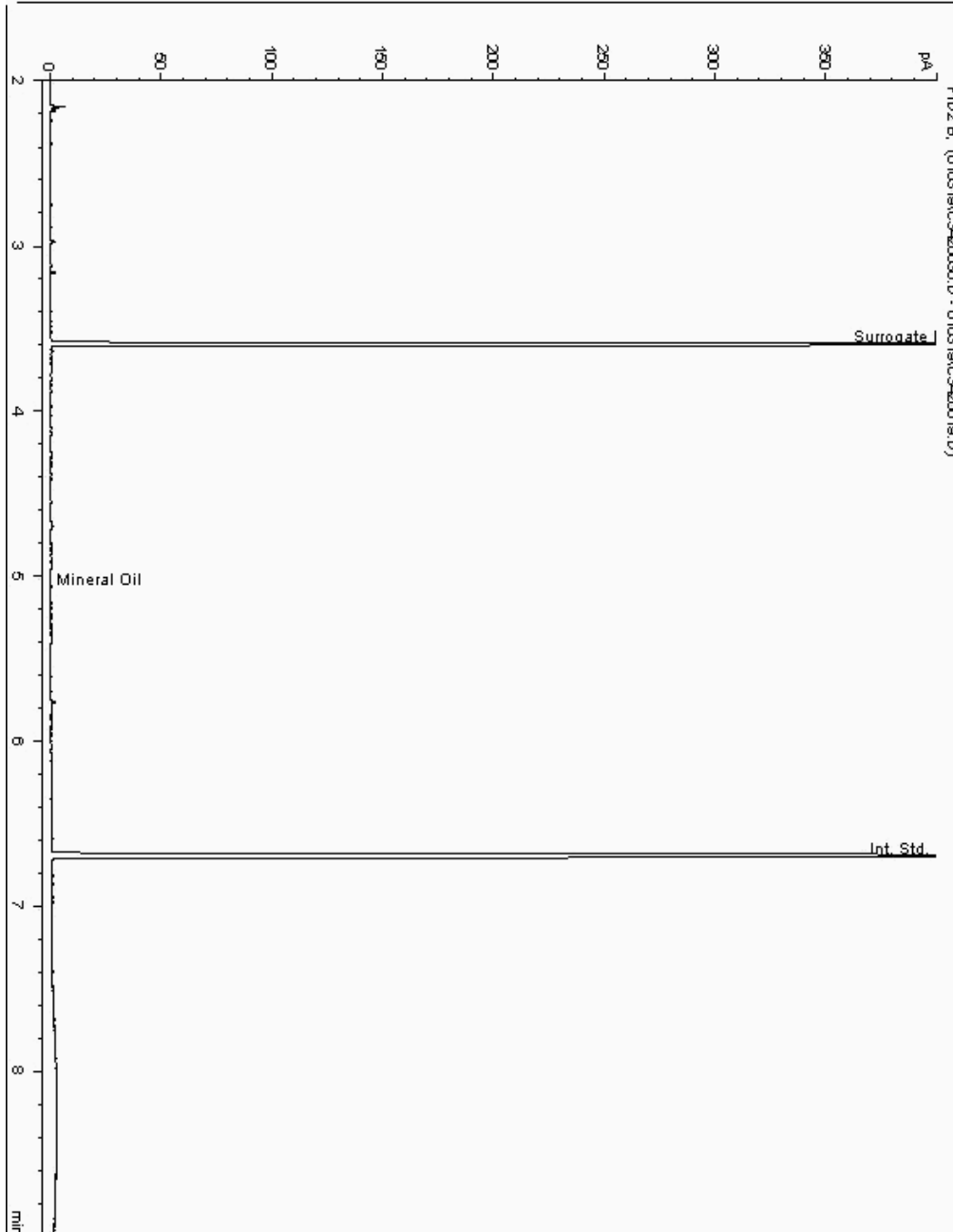
Analysis: Mineral Oil

Sample No : 19020247
Sample ID : BH202

Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868411-
Date Acquired : 04/01/2019 10:57:23 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

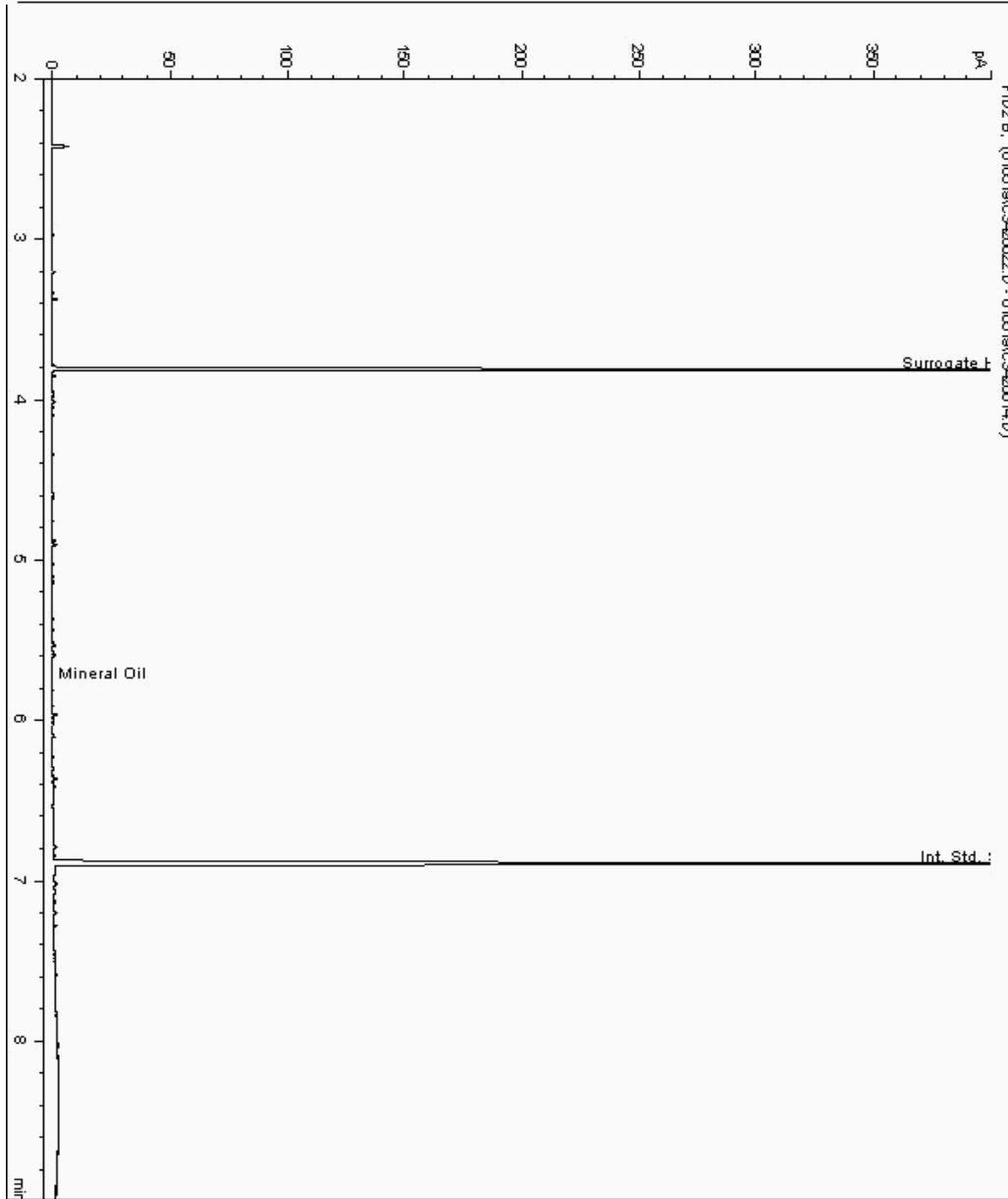
Analysis: Mineral Oil

Sample No : 19020269
Sample ID : BH210

Depth : 8.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869160-
Date Acquired : 05/01/19 16:30:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

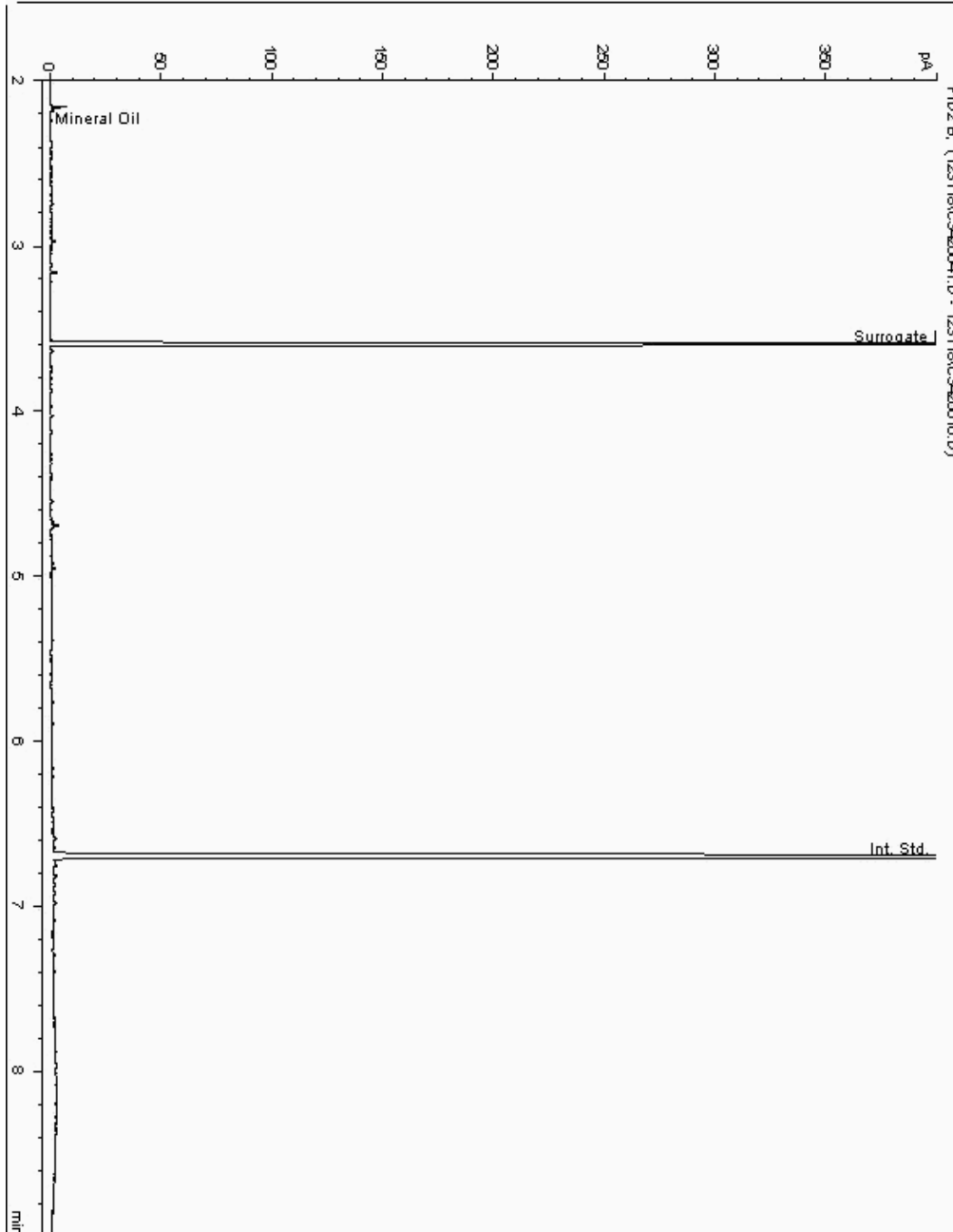
Analysis: Mineral Oil

Sample No : 19020358
Sample ID : BH205

Depth : 1.00 - 1.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868081-
Date Acquired : 31/12/2018 22:55:38 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

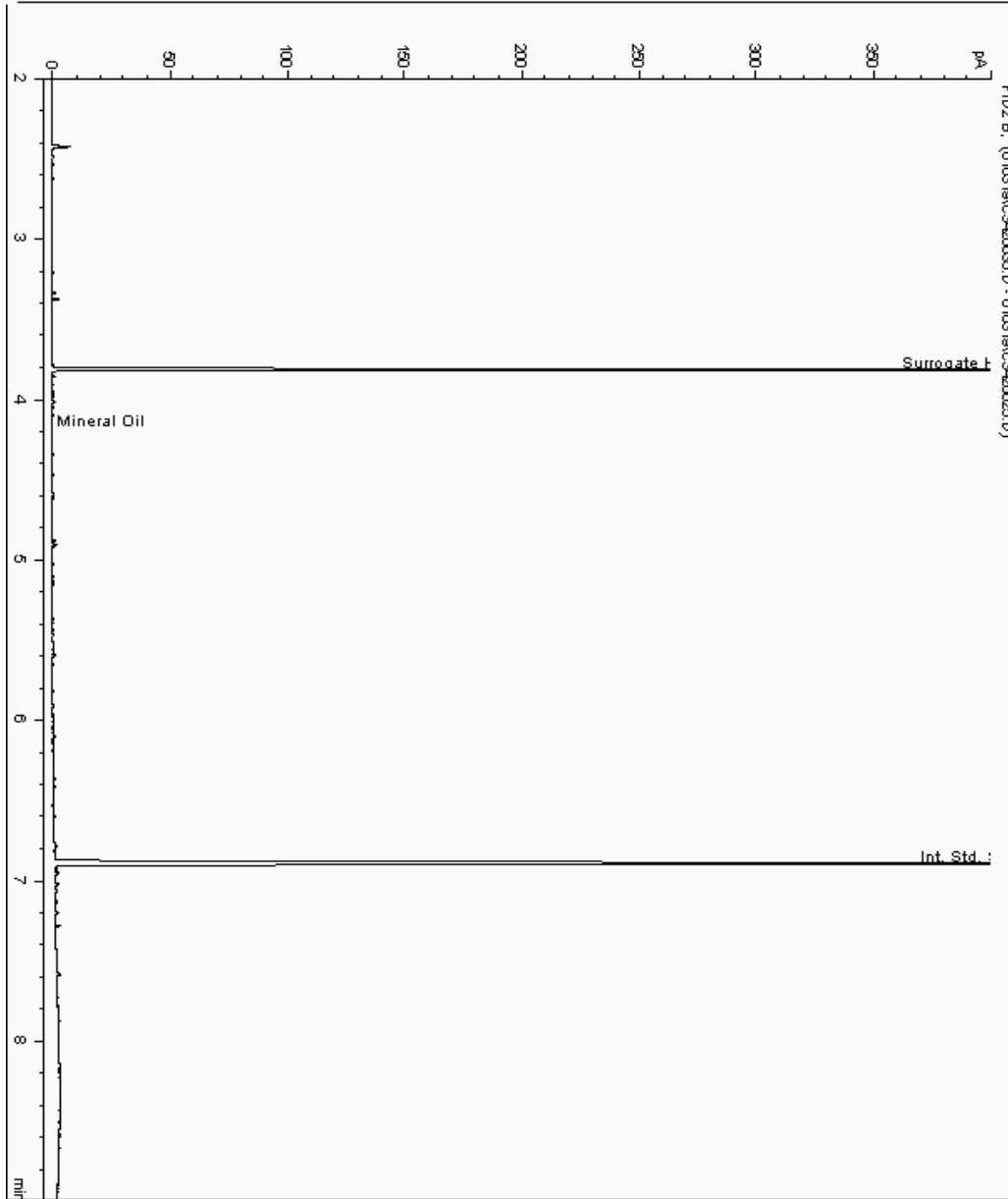
Analysis: Mineral Oil

Sample No : 19020392
Sample ID : BH203

Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867933-
Date Acquired : 03/01/19 19:55:05 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

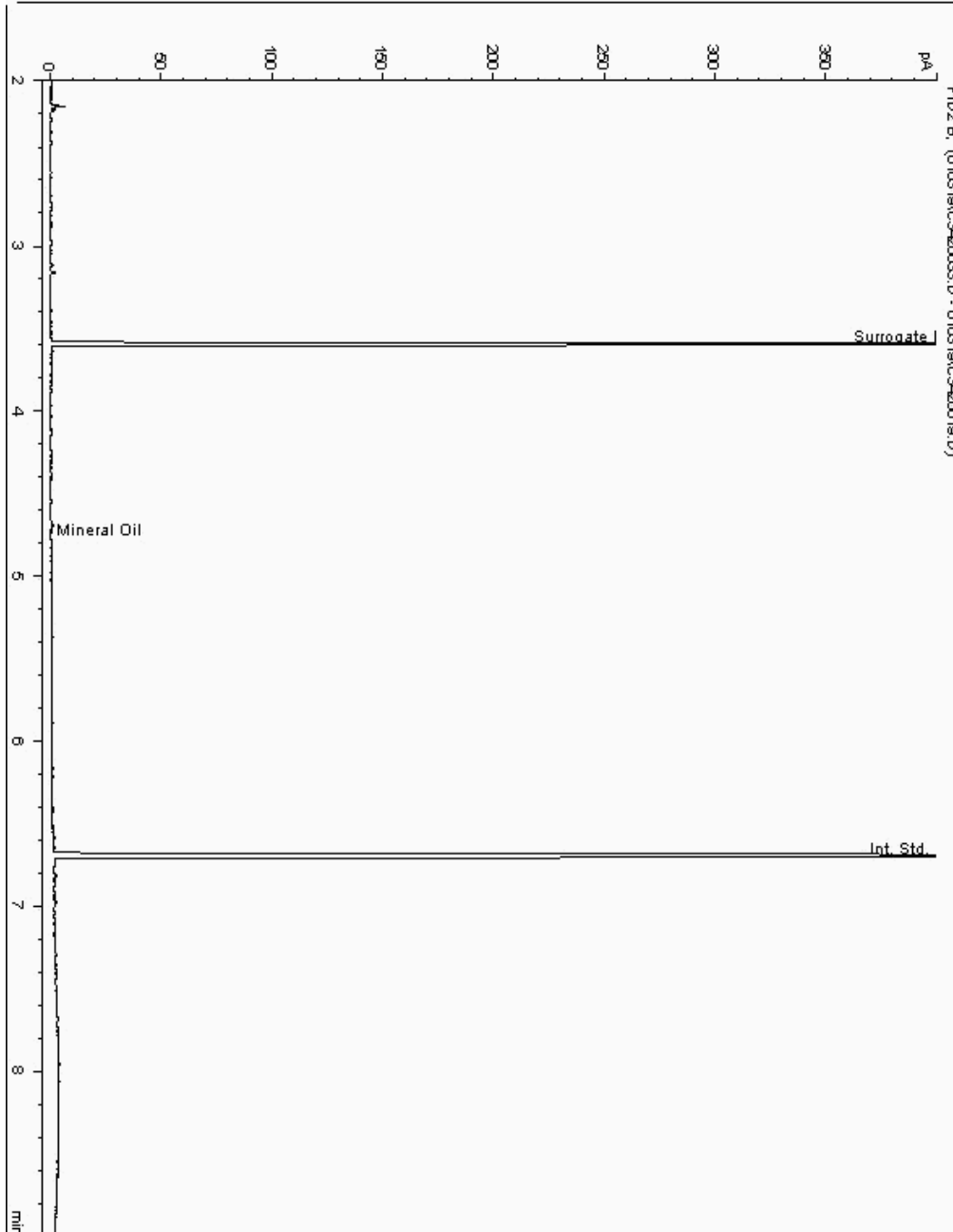
Analysis: Mineral Oil

Sample No : 19020432
Sample ID : BH202

Depth : 5.00 - 5.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867677-
Date Acquired : 04/01/2019 11:59:34 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

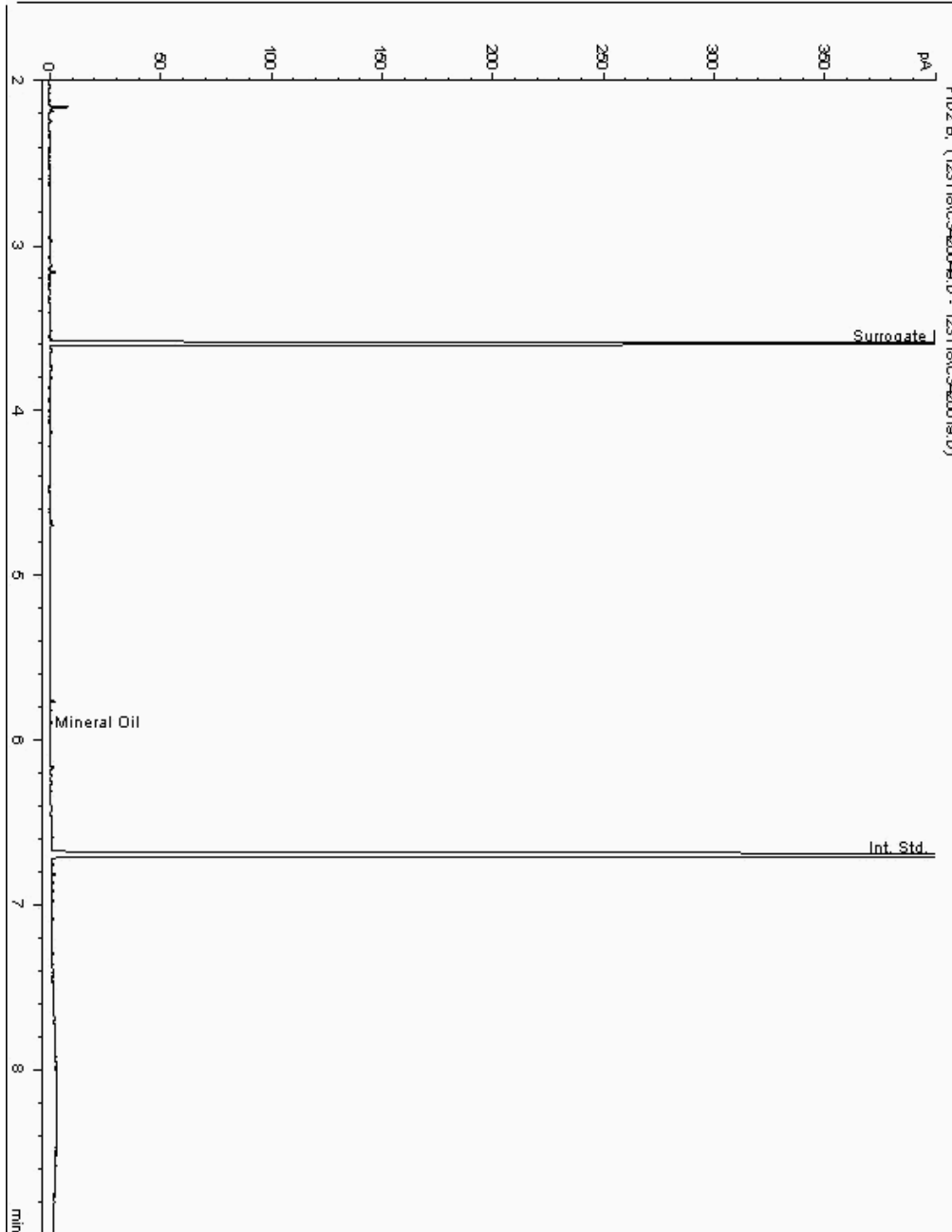
Analysis: Mineral Oil

Sample No : 19020439
Sample ID : BH205

Depth : 5.50 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868255-
Date Acquired : 01/01/2019 01:38:27 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

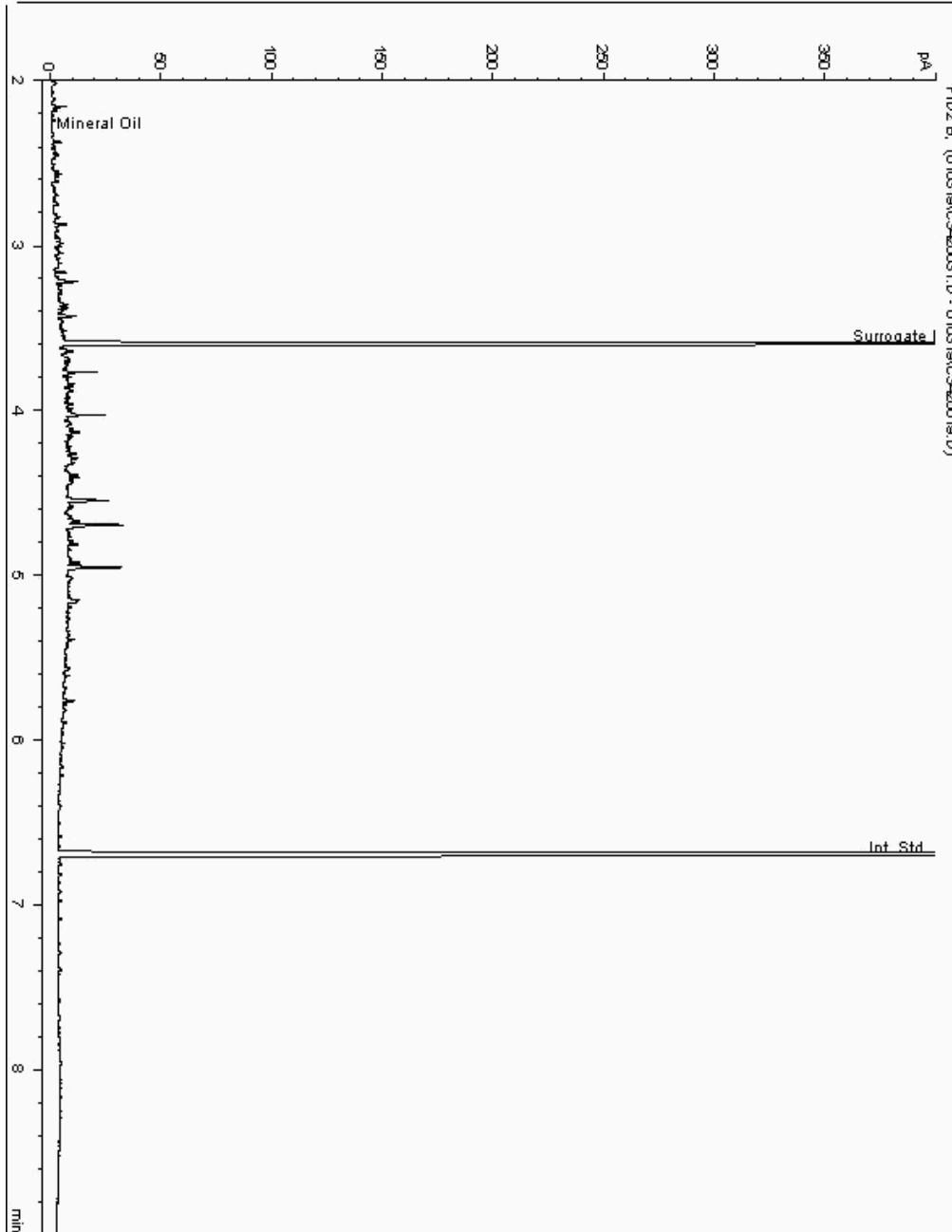
Analysis: Mineral Oil

Sample No : 19021083
Sample ID : BH205

Depth : 0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868002-
Date Acquired : 04/01/2019 11:17:23 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

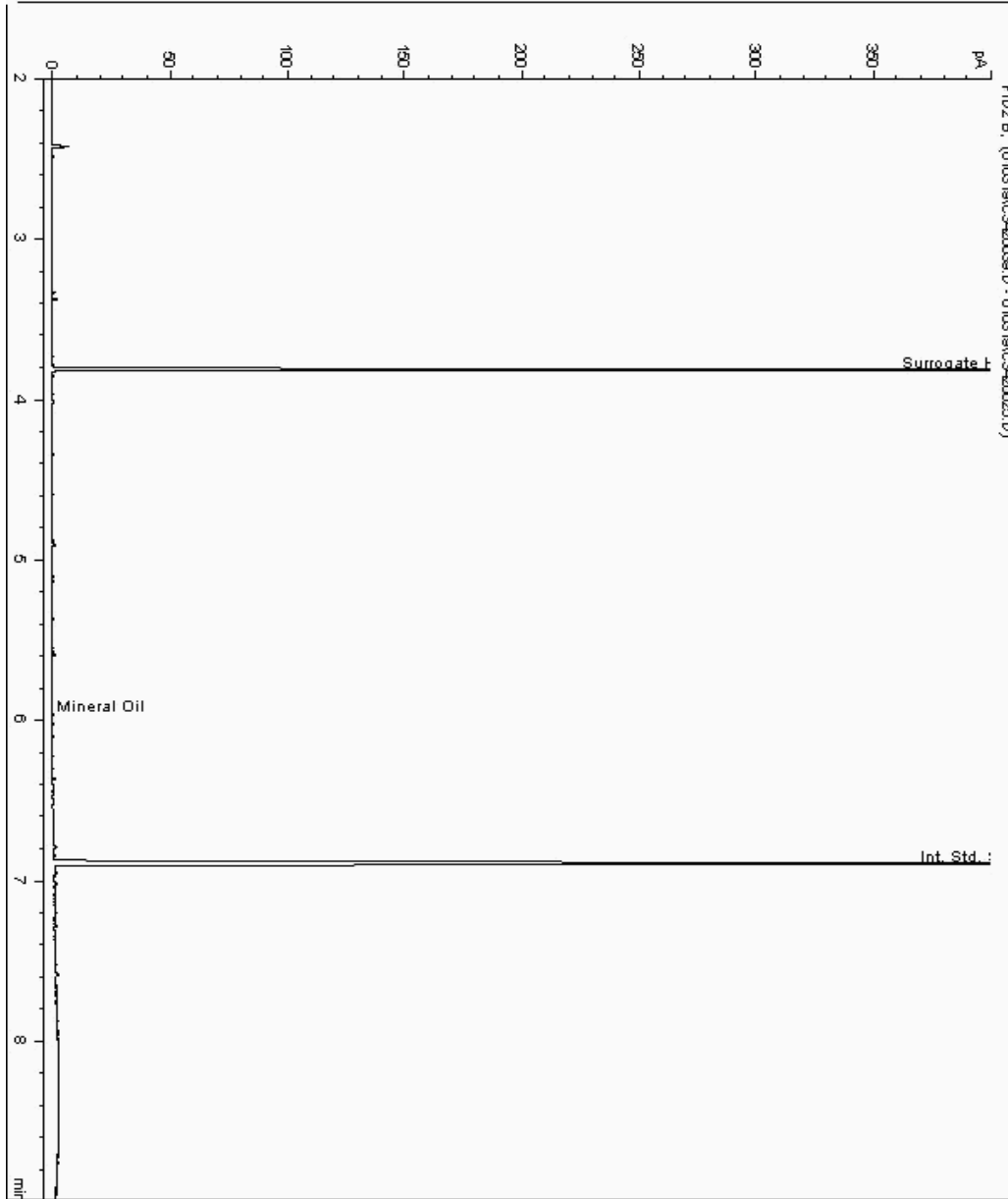
Analysis: Mineral Oil

Sample No : 19021105
Sample ID : BH202

Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867704-
Date Acquired : 03/01/19 21:06:49 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

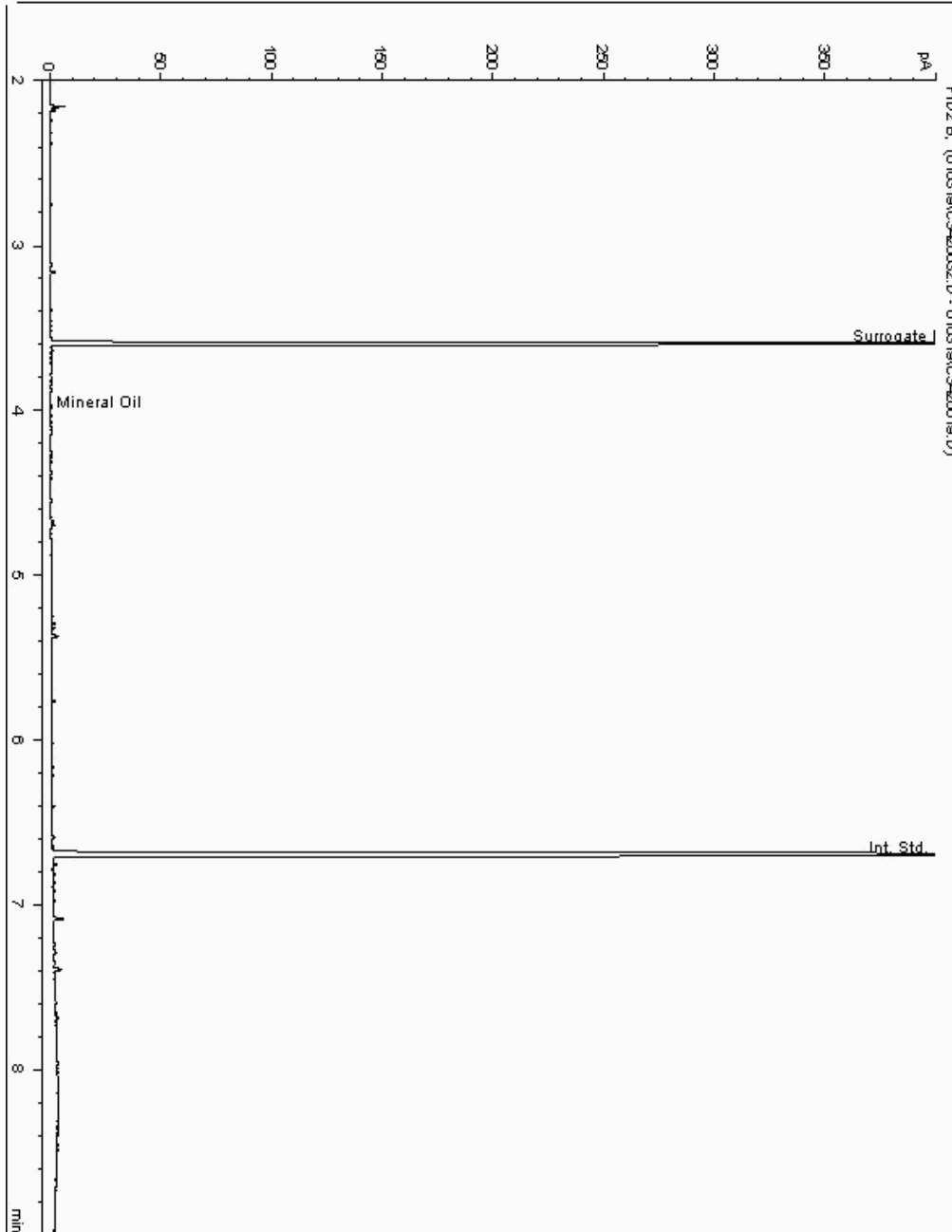
Analysis: Mineral Oil

Sample No : 19021158
Sample ID : BH202

Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867653-
Date Acquired : 04/01/2019 11:37:28 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

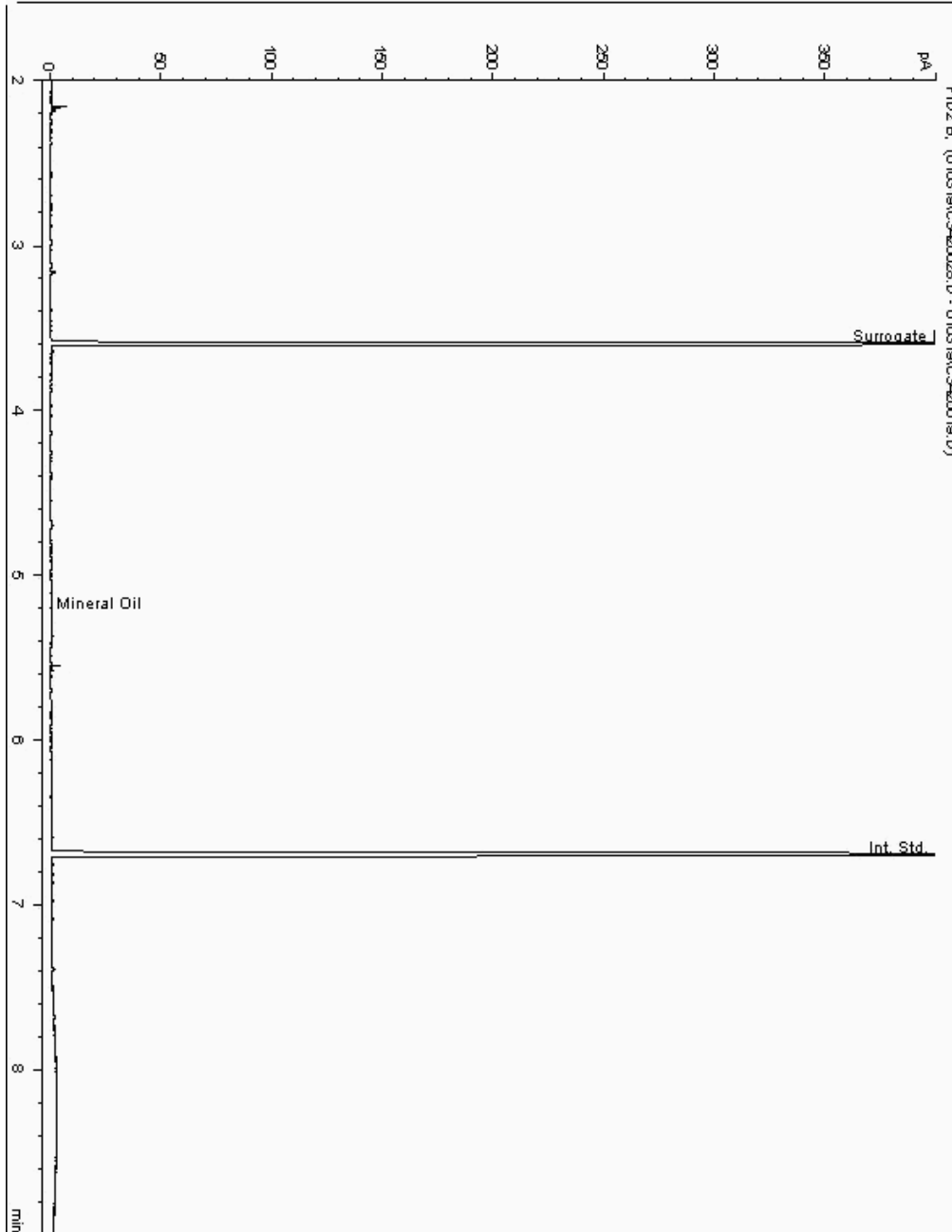
Analysis: Mineral Oil

Sample No : 19021160
Sample ID : BH203

Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867868-
Date Acquired : 04/01/2019 10:17:08 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

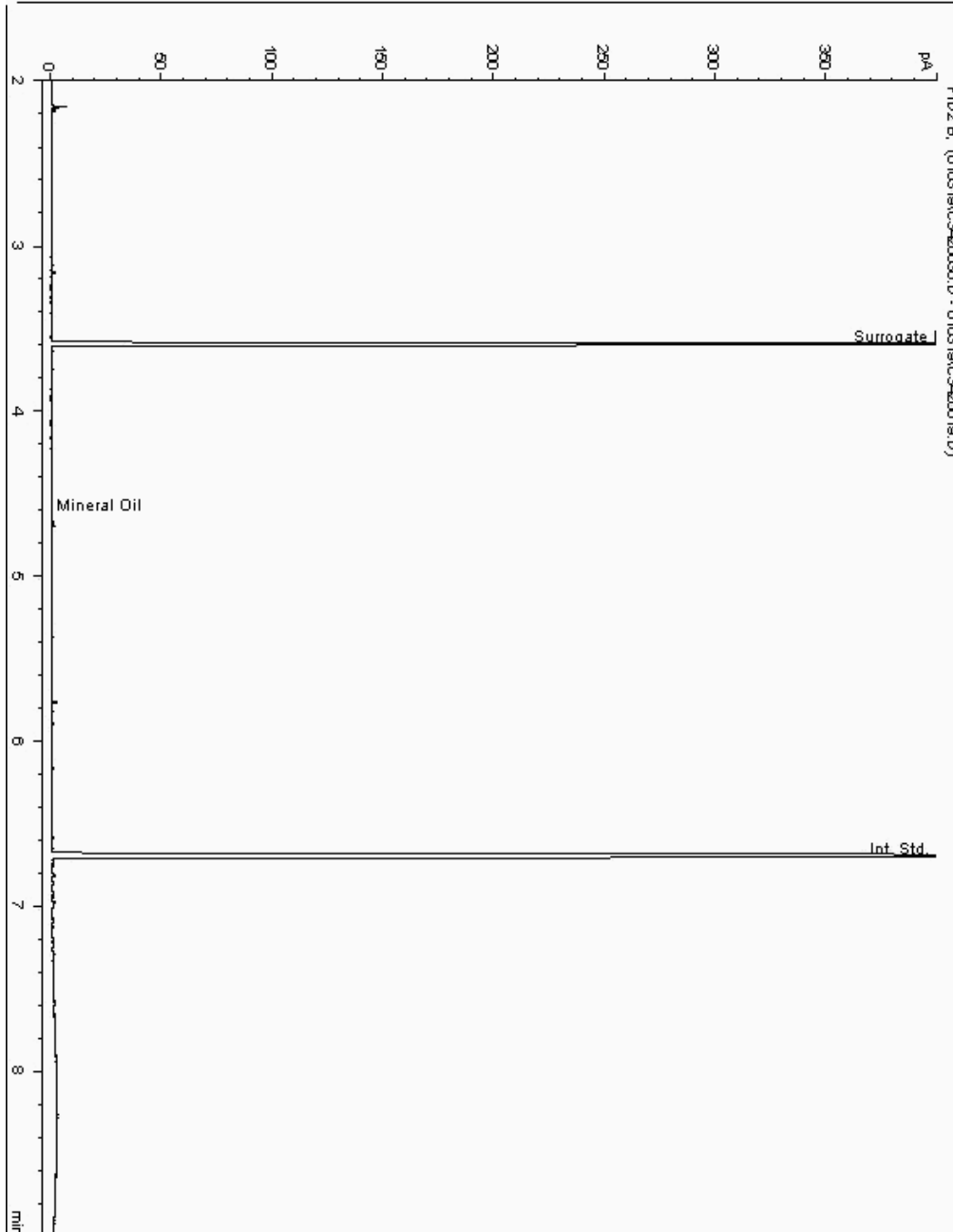
Analysis: Mineral Oil

Sample No : 19021259
Sample ID : BH201

Depth : 0.00 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867129-
Date Acquired : 04/01/2019 13:00:16 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

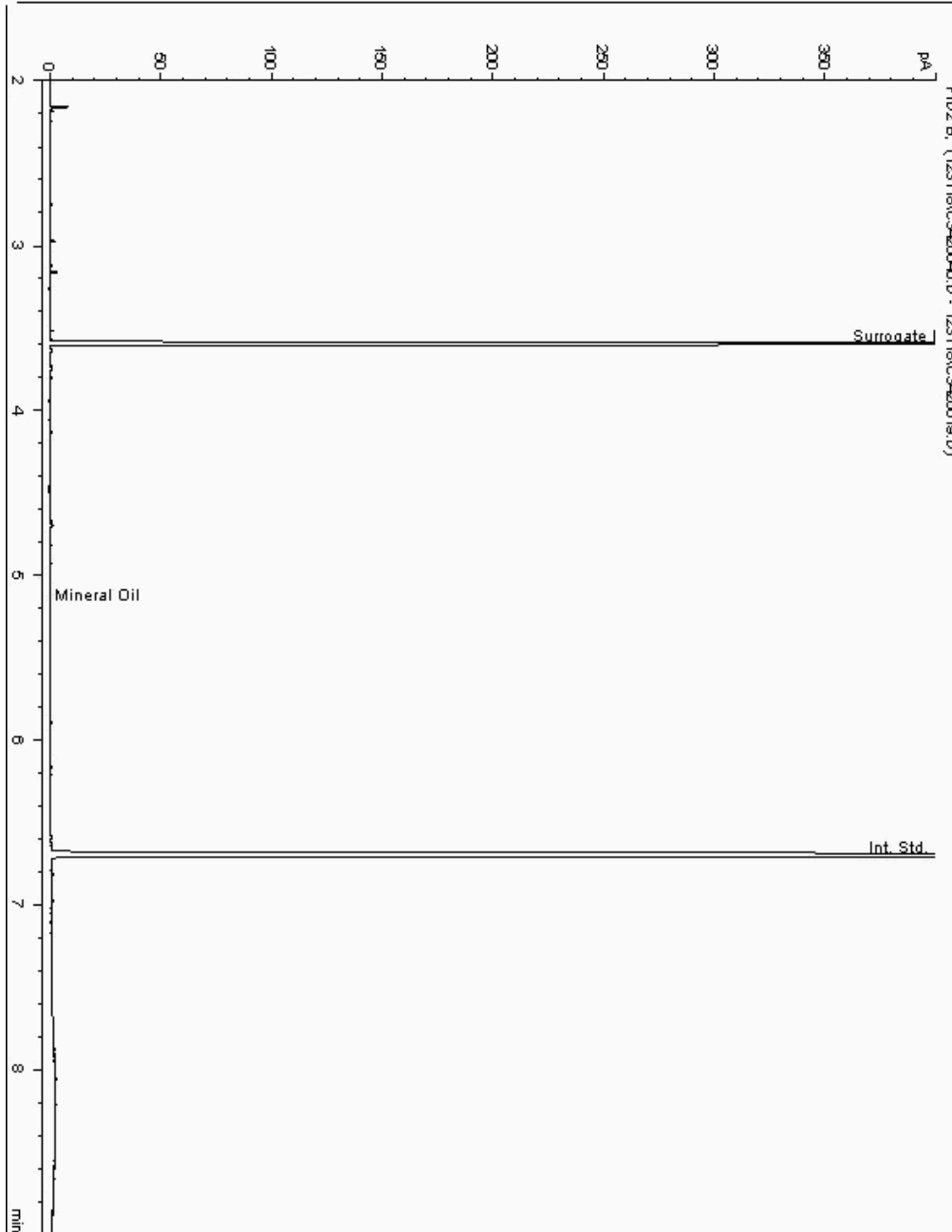
Analysis: Mineral Oil

Sample No : 19021292
Sample ID : BH205

Depth : 8.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868367-
Date Acquired : 01/01/2019 00:17:19 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

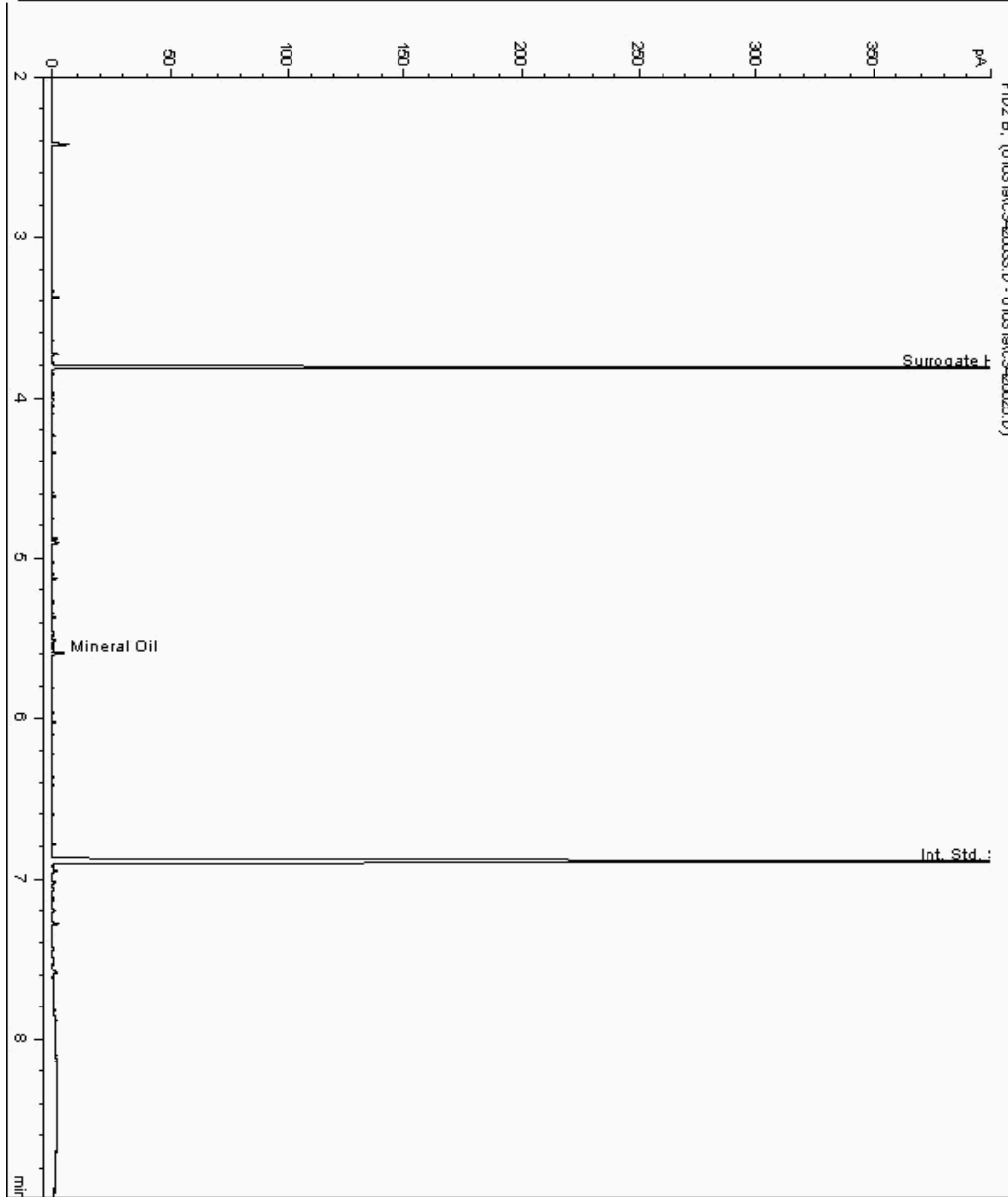
Analysis: Mineral Oil

Sample No : 19021375
Sample ID : BH202

Depth : 0.50 - 1.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867567-
Date Acquired : 03/01/19 19:23:07 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

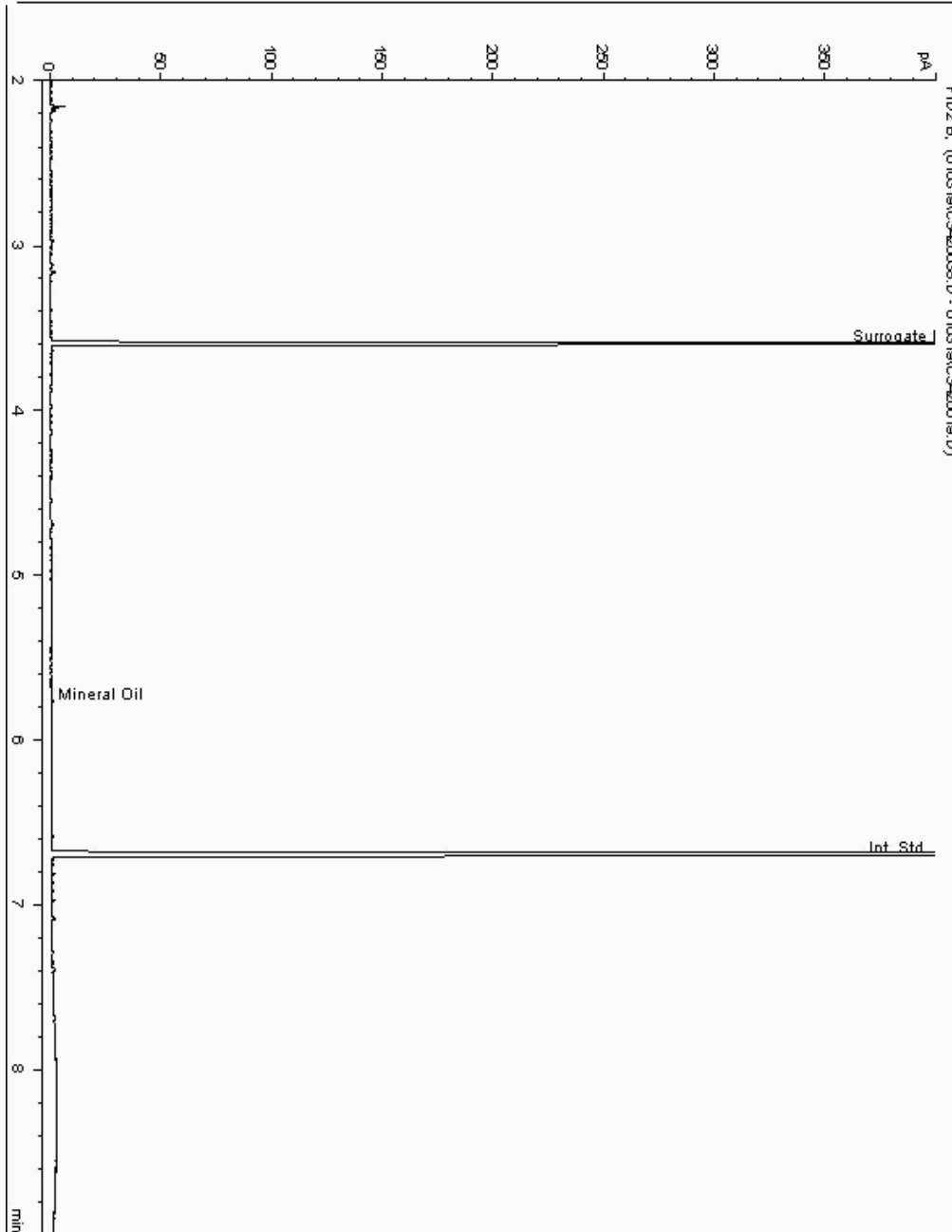
Analysis: Mineral Oil

Sample No : 19021421
Sample ID : BH205

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868204-
Date Acquired : 04/01/2019 13:41:01 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

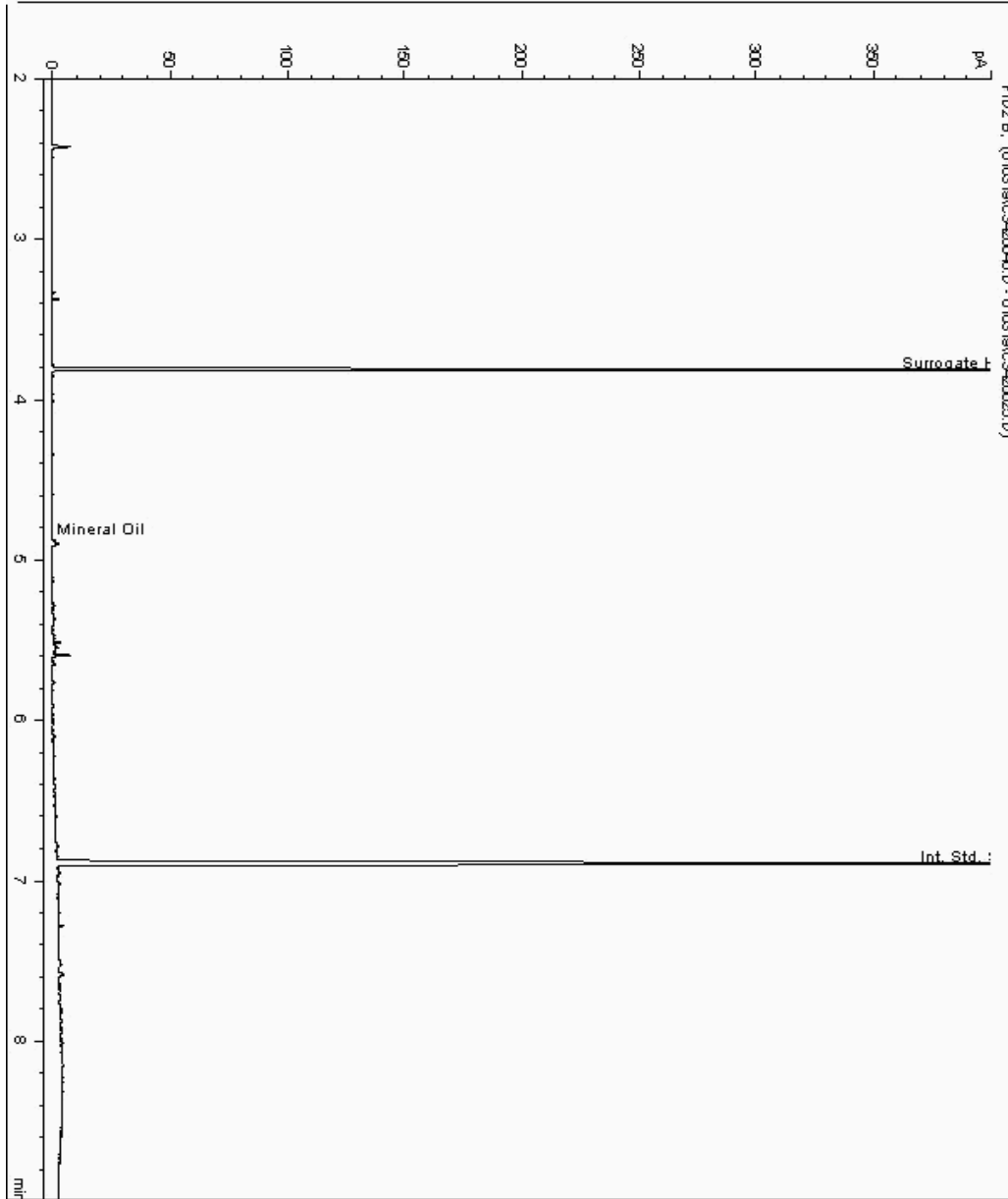
Analysis: Mineral Oil

Sample No : 19021495
Sample ID : BH201

Depth : 6.00 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867395-
Date Acquired : 03/01/19 21:26:32 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

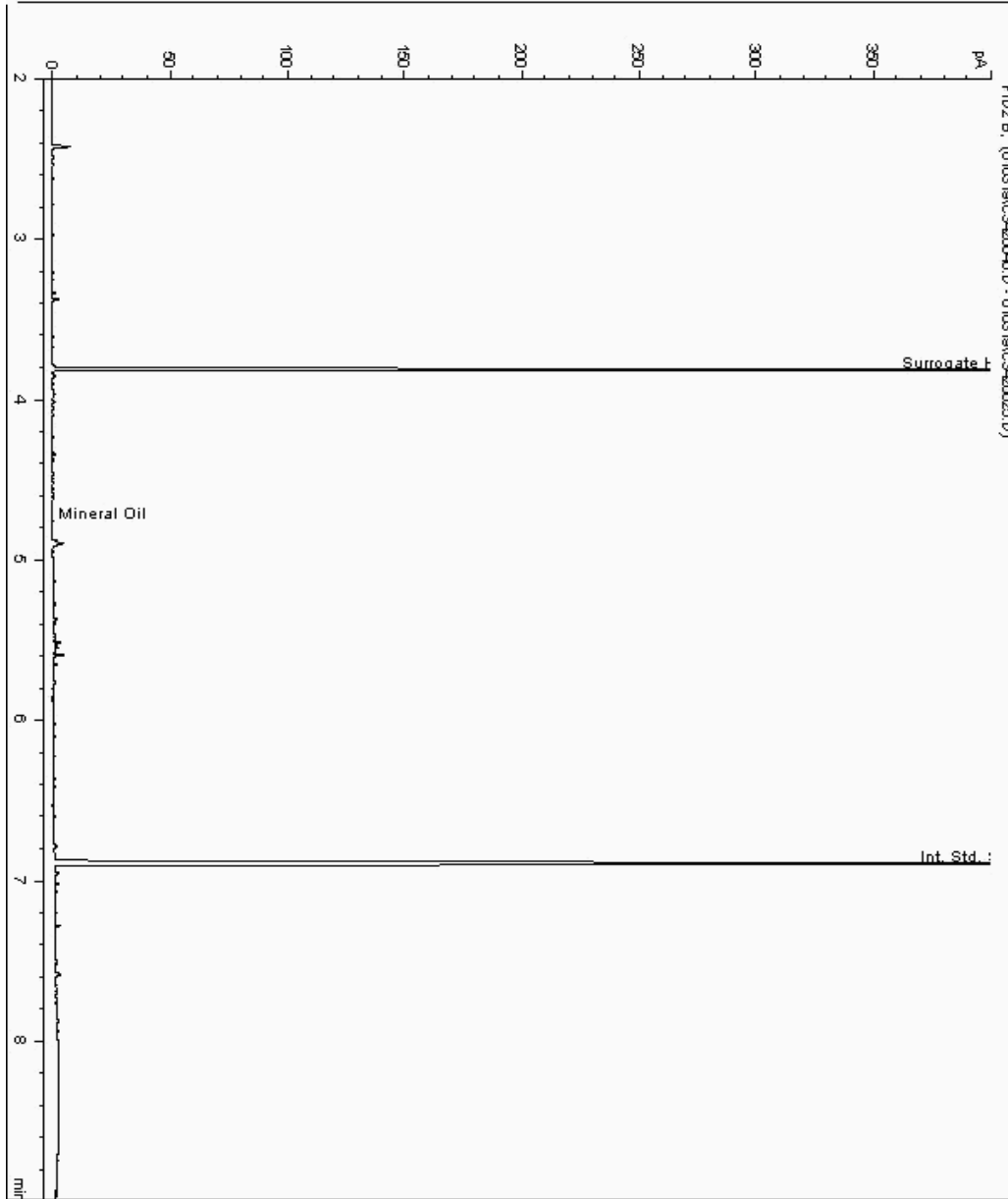
Analysis: Mineral Oil

Sample No : 19021553
Sample ID : BH201

Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867320-
Date Acquired : 03/01/19 23:10:11 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

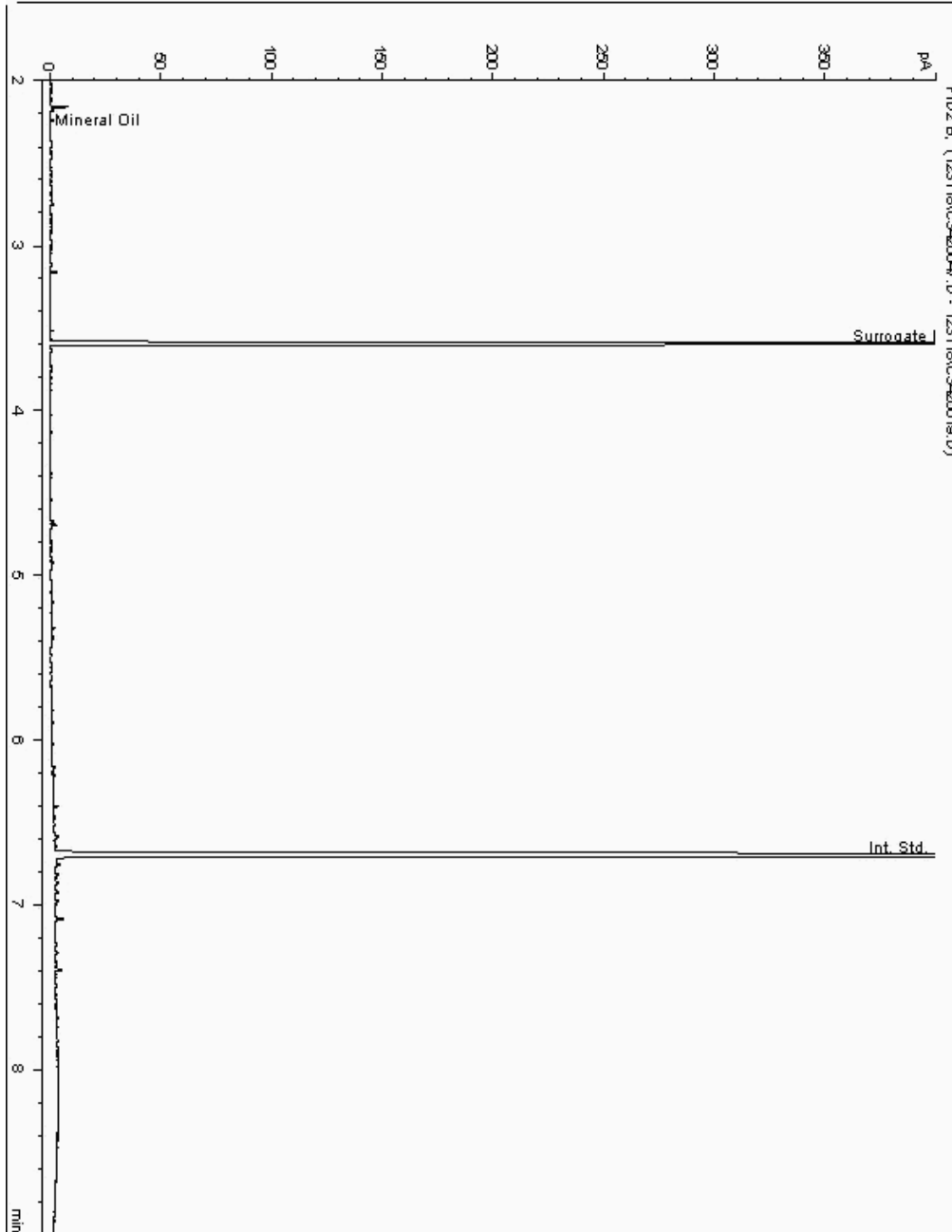
Analysis: Mineral Oil

Sample No : 19021581
Sample ID : BH205

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868179-
Date Acquired : 01/01/2019 00:57:47 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

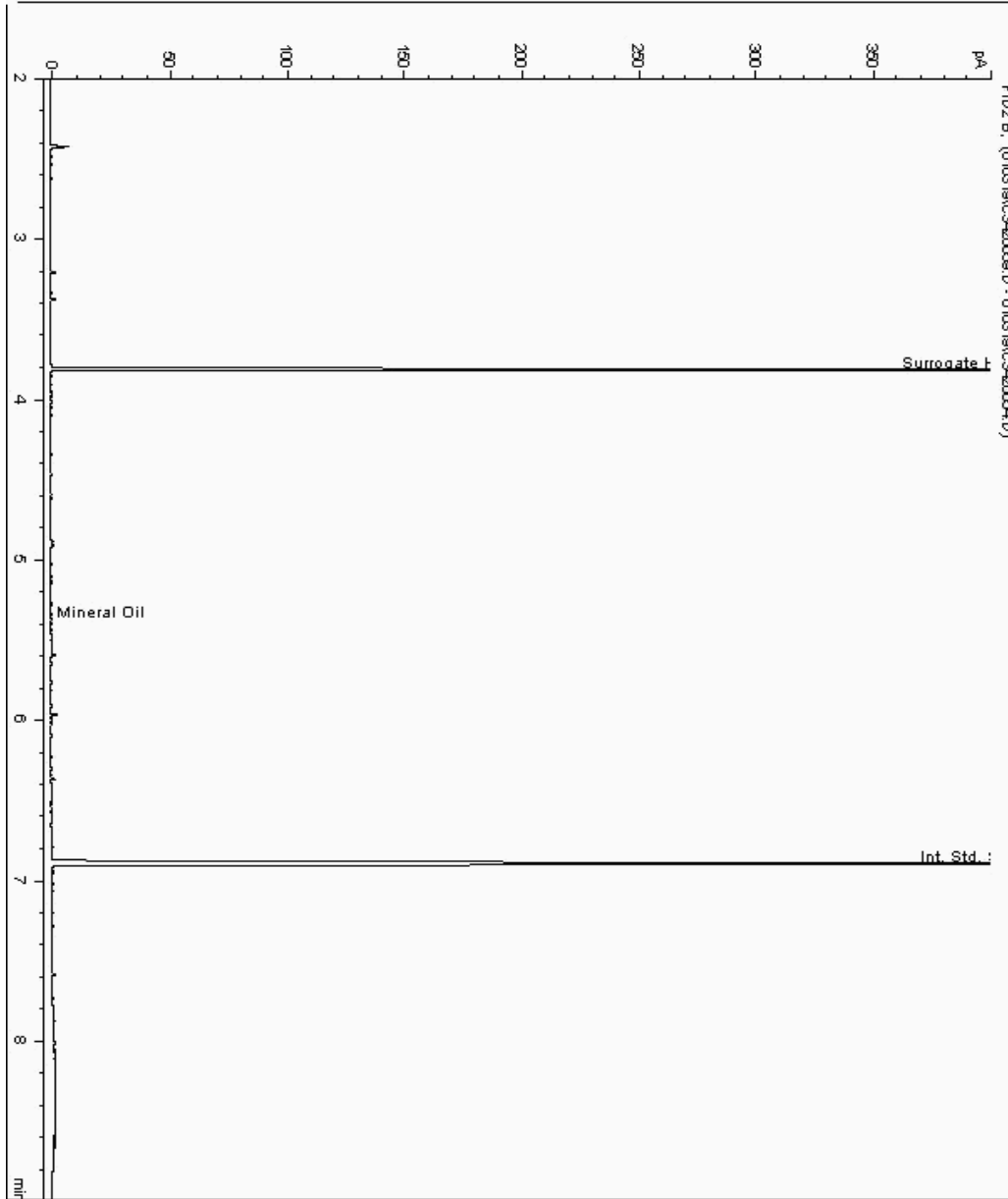
Analysis: Mineral Oil

Sample No : 19021632
Sample ID : BH201

Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867422-
Date Acquired : 04/01/19 09:36:29 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

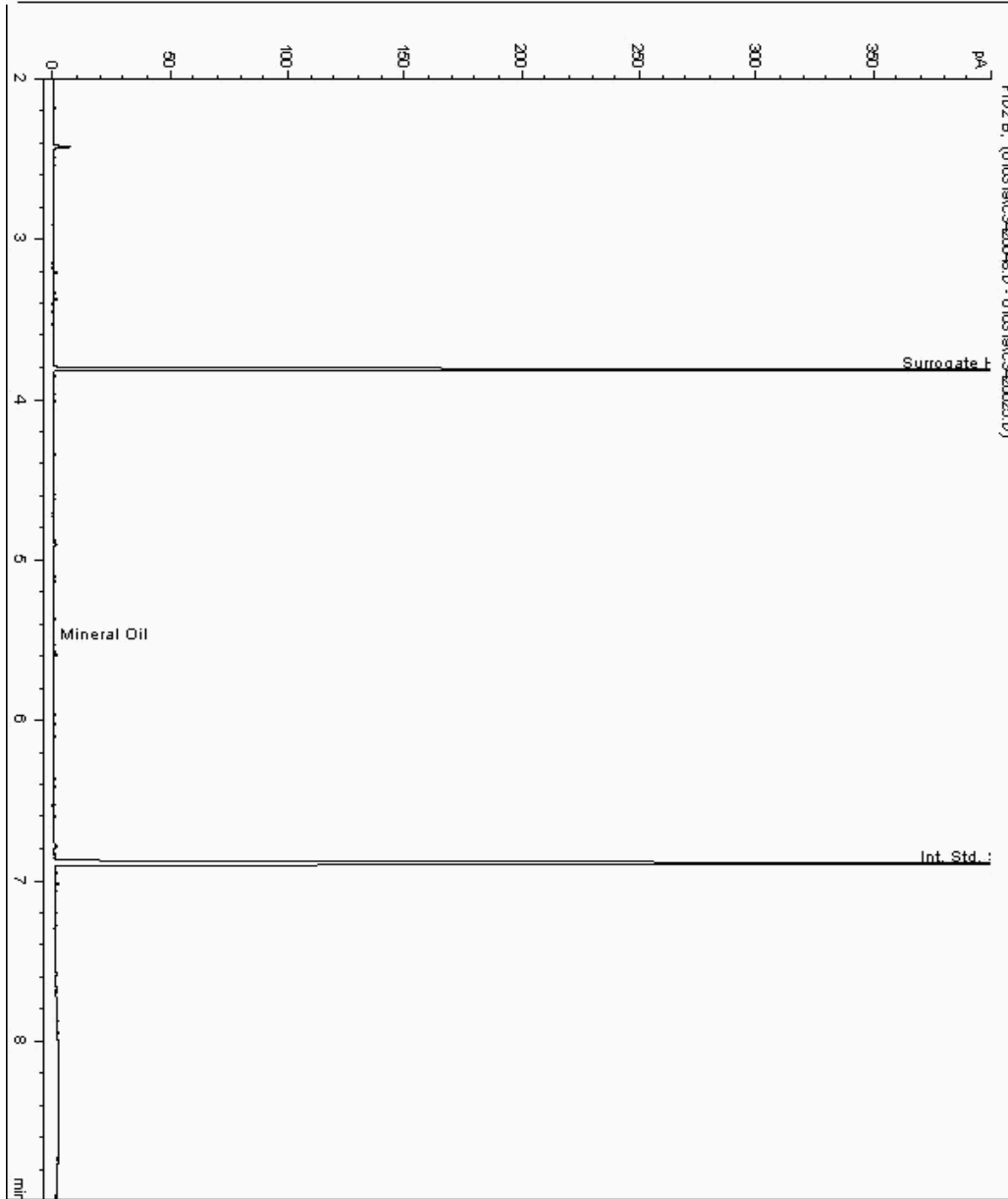
Analysis: Mineral Oil

Sample No : 19021727
Sample ID : BH201

Depth : 8.00 - 9.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867446-
Date Acquired : 03/01/19 23:42:18 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

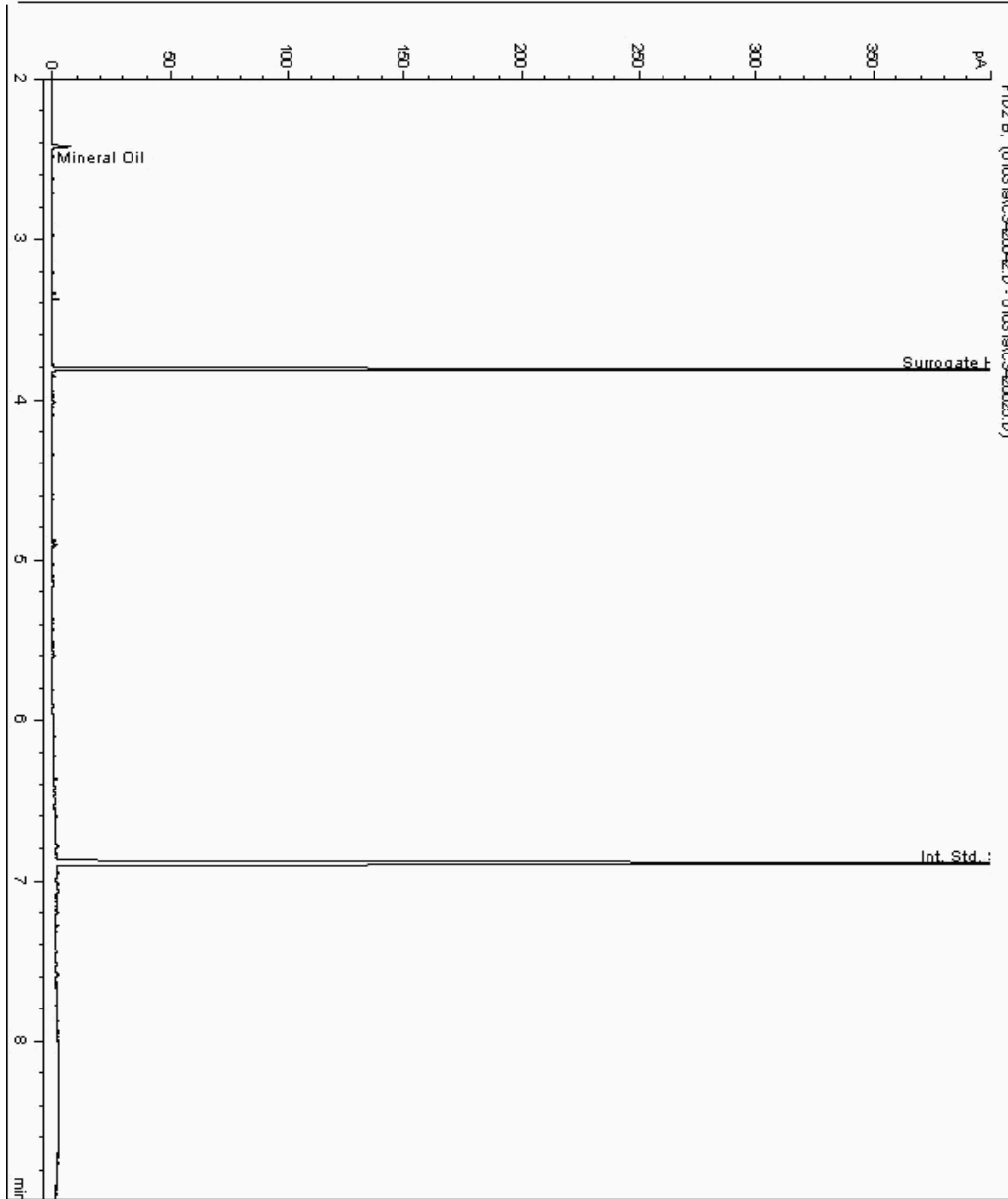
Analysis: Mineral Oil

Sample No : 19021792
Sample ID : BH205

Depth : 1.50 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868143-
Date Acquired : 03/01/19 21:58:28 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

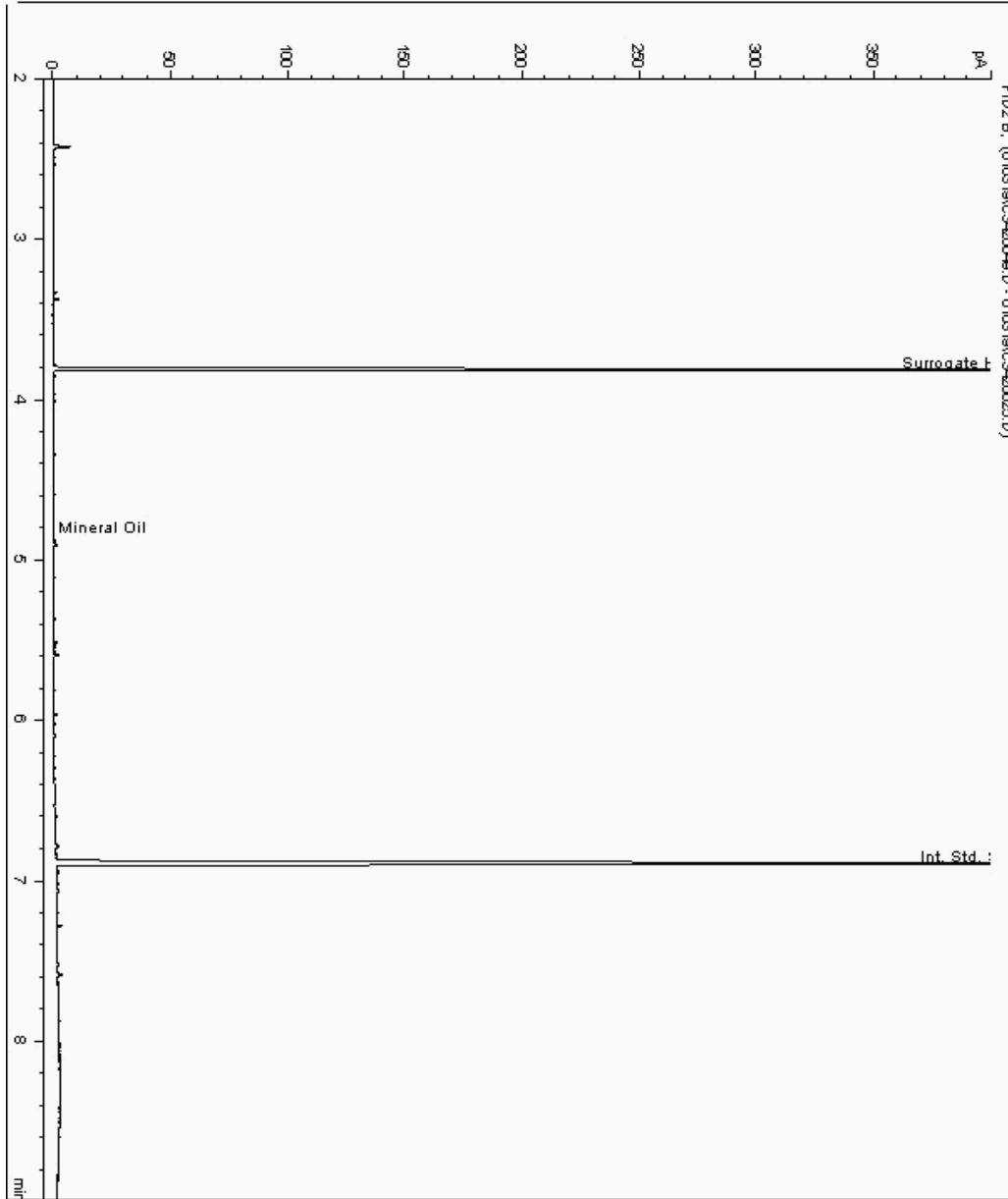
Analysis: Mineral Oil

Sample No : 19021858
Sample ID : BH201

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867196-
Date Acquired : 04/01/19 00:02:10 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

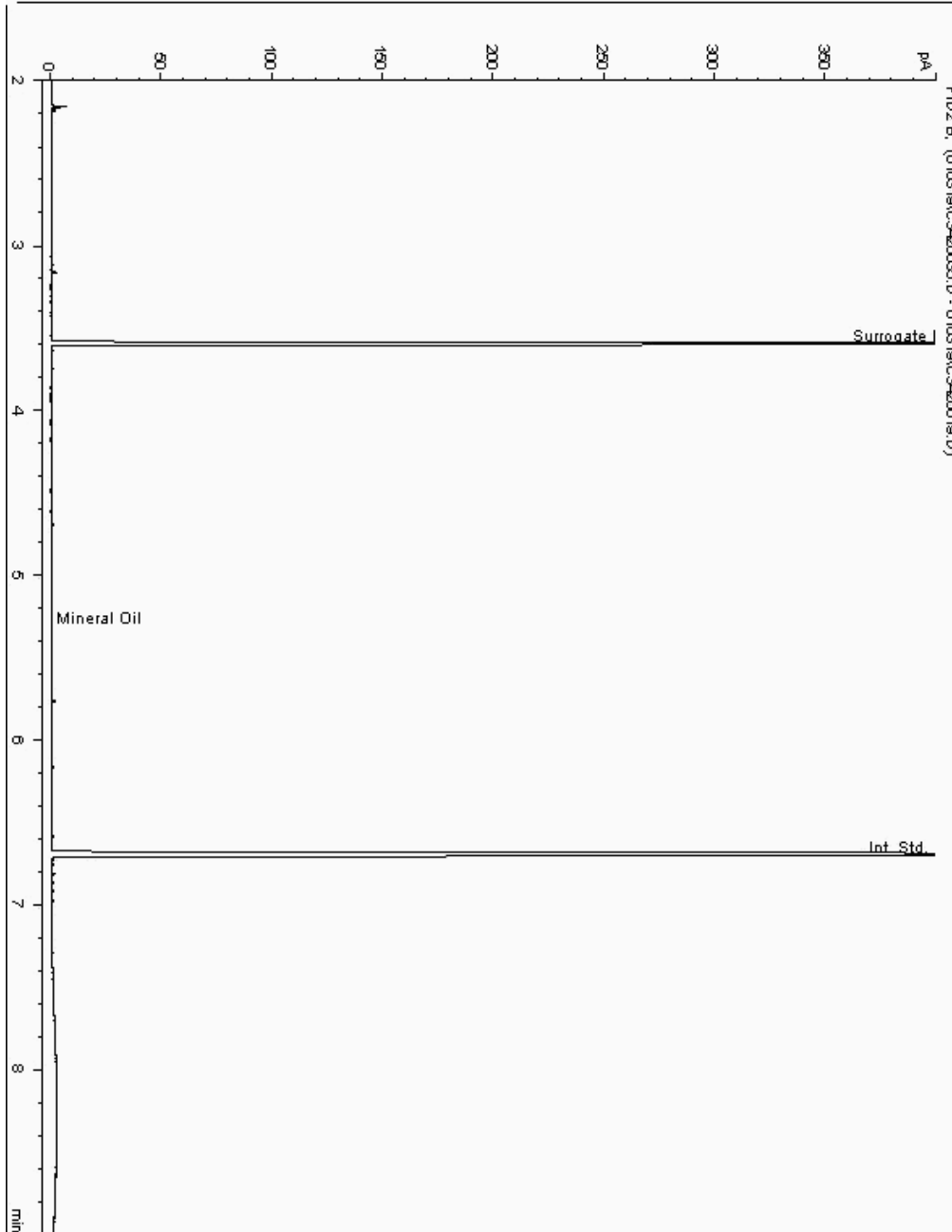
Analysis: Mineral Oil

Sample No : 19021891
Sample ID : BH203

Depth : 7.00 - 8.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867965-
Date Acquired : 04/01/2019 12:40:01 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

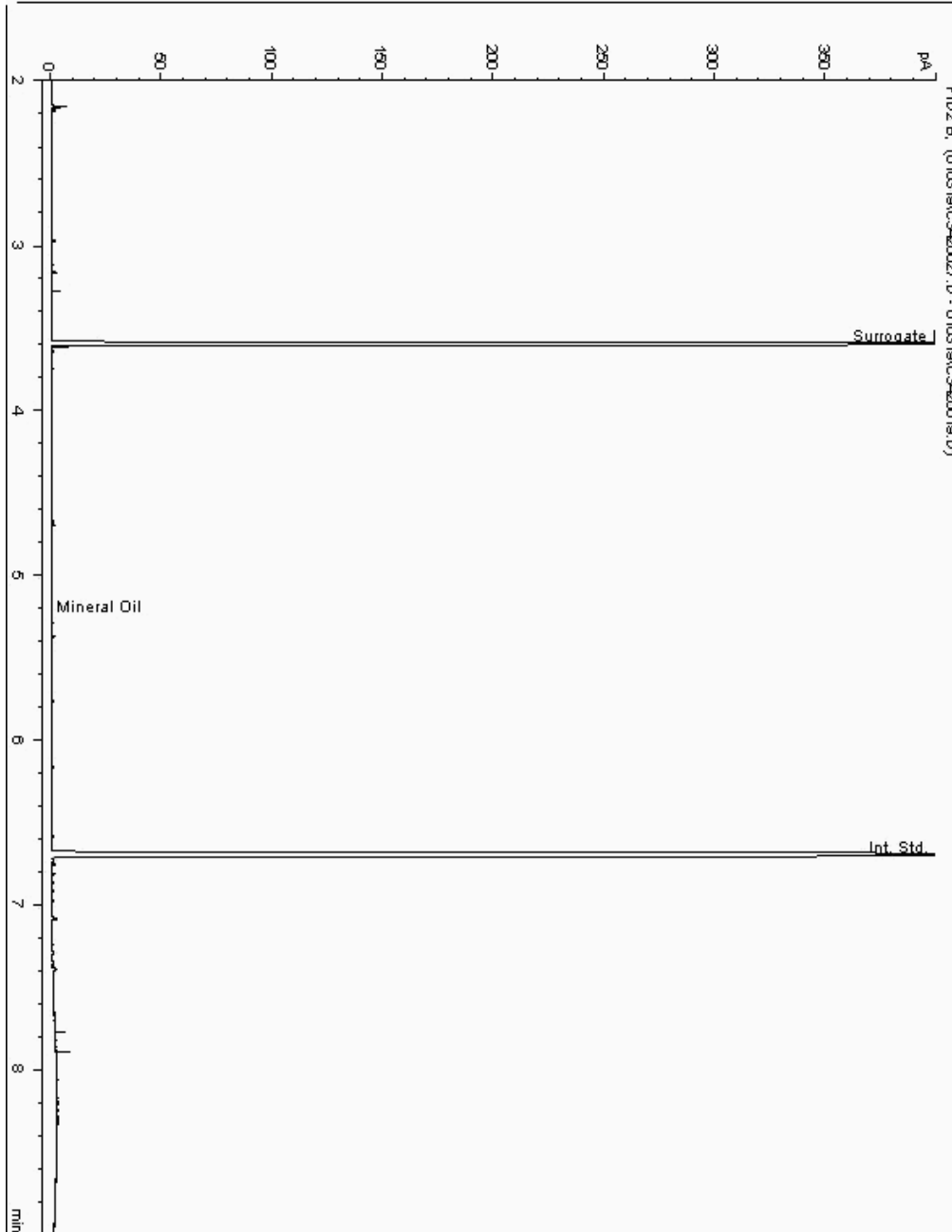
Analysis: Mineral Oil

Sample No : 19021943
Sample ID : BH202

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867602-
Date Acquired : 04/01/2019 09:57:03 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70 Client Reference: 602387 Report Number: 488549
Location: City Block 9 Order Number: P2021550 Superseded Report: 488301

Chromatogram

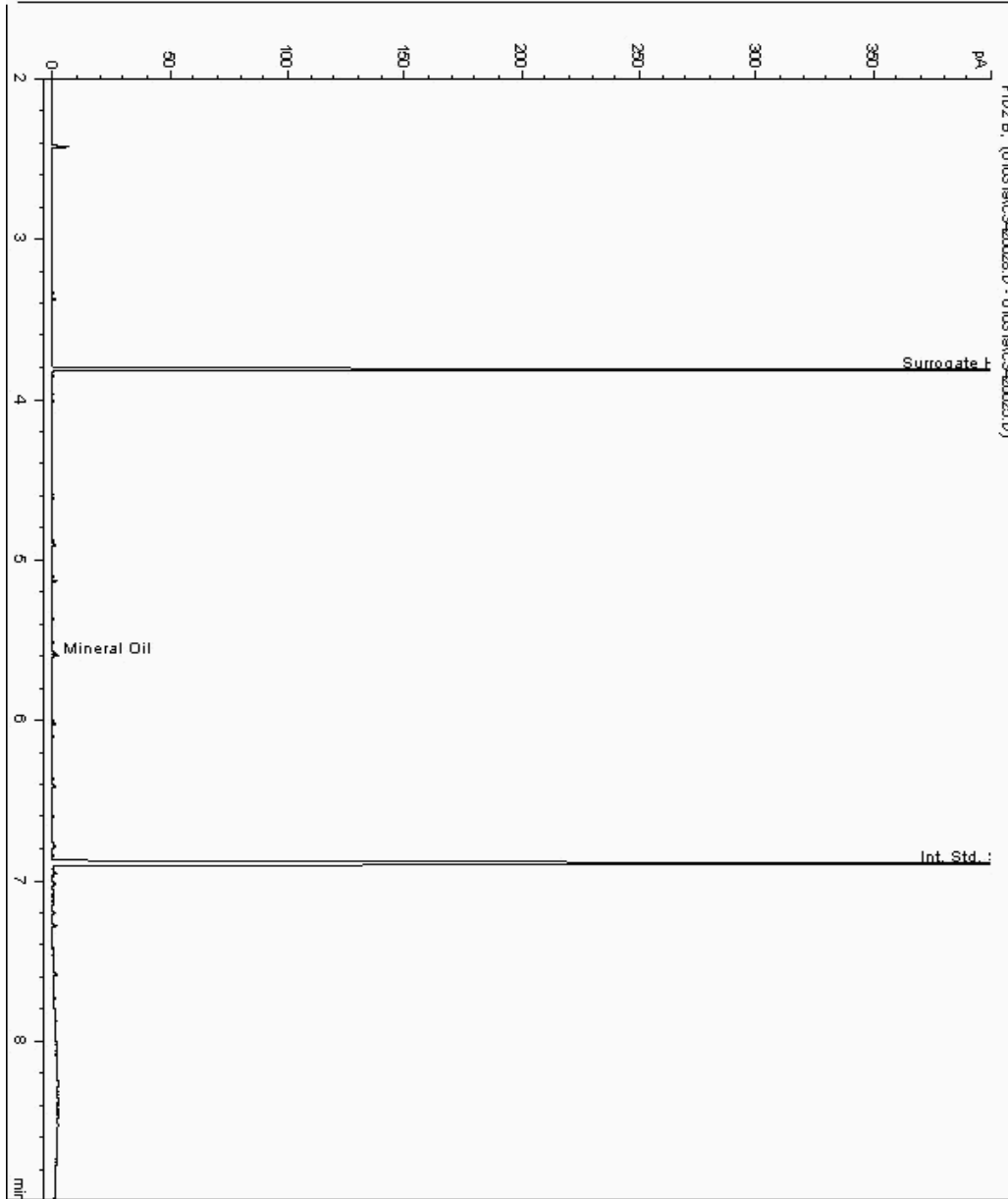
Analysis: Mineral Oil

Sample No : 19021986
Sample ID : BH205

Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868230-
Date Acquired : 03/01/19 17:43:52 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

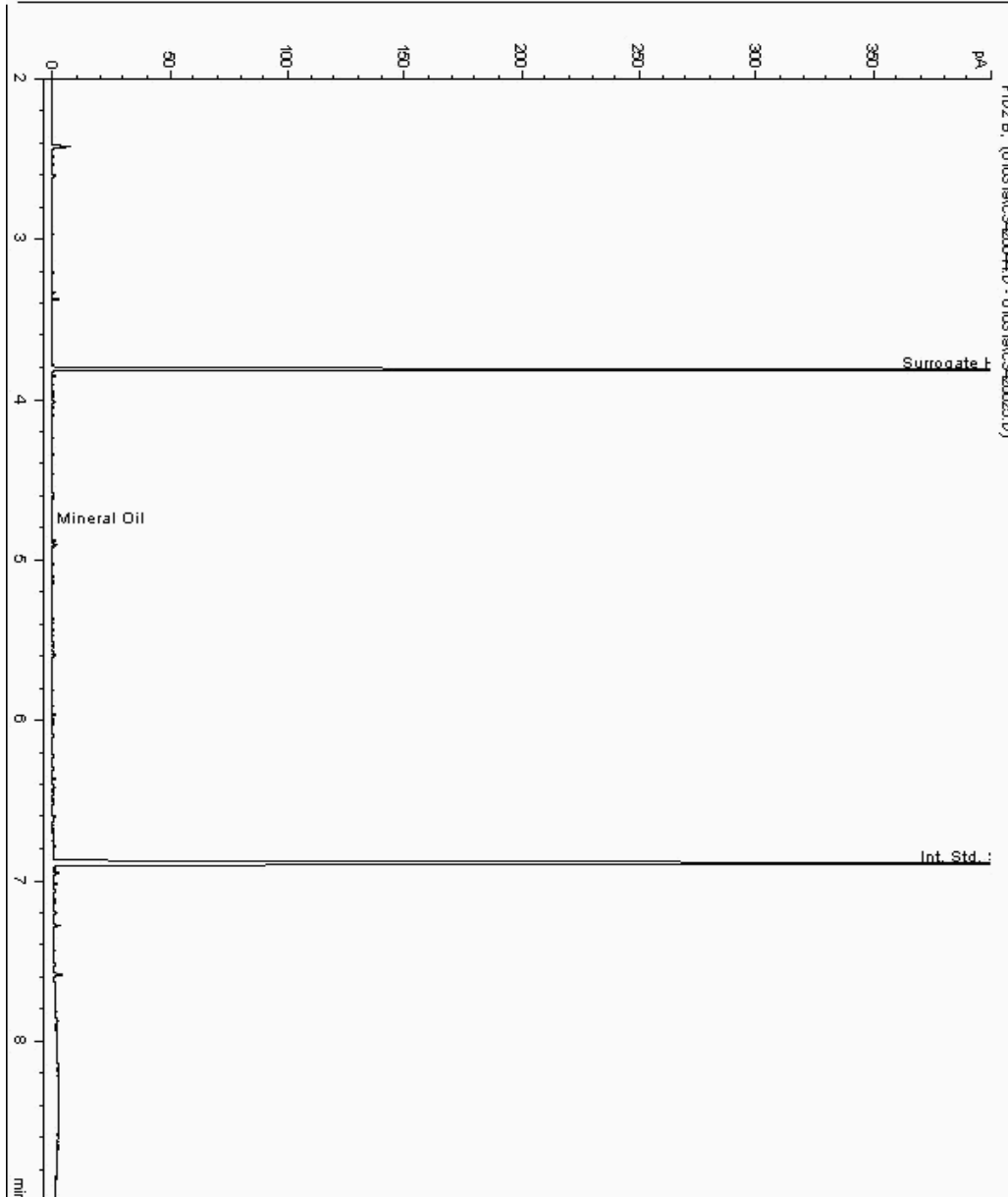
Analysis: Mineral Oil

Sample No : 19022008
Sample ID : BH202

Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867500-
Date Acquired : 03/01/19 22:30:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

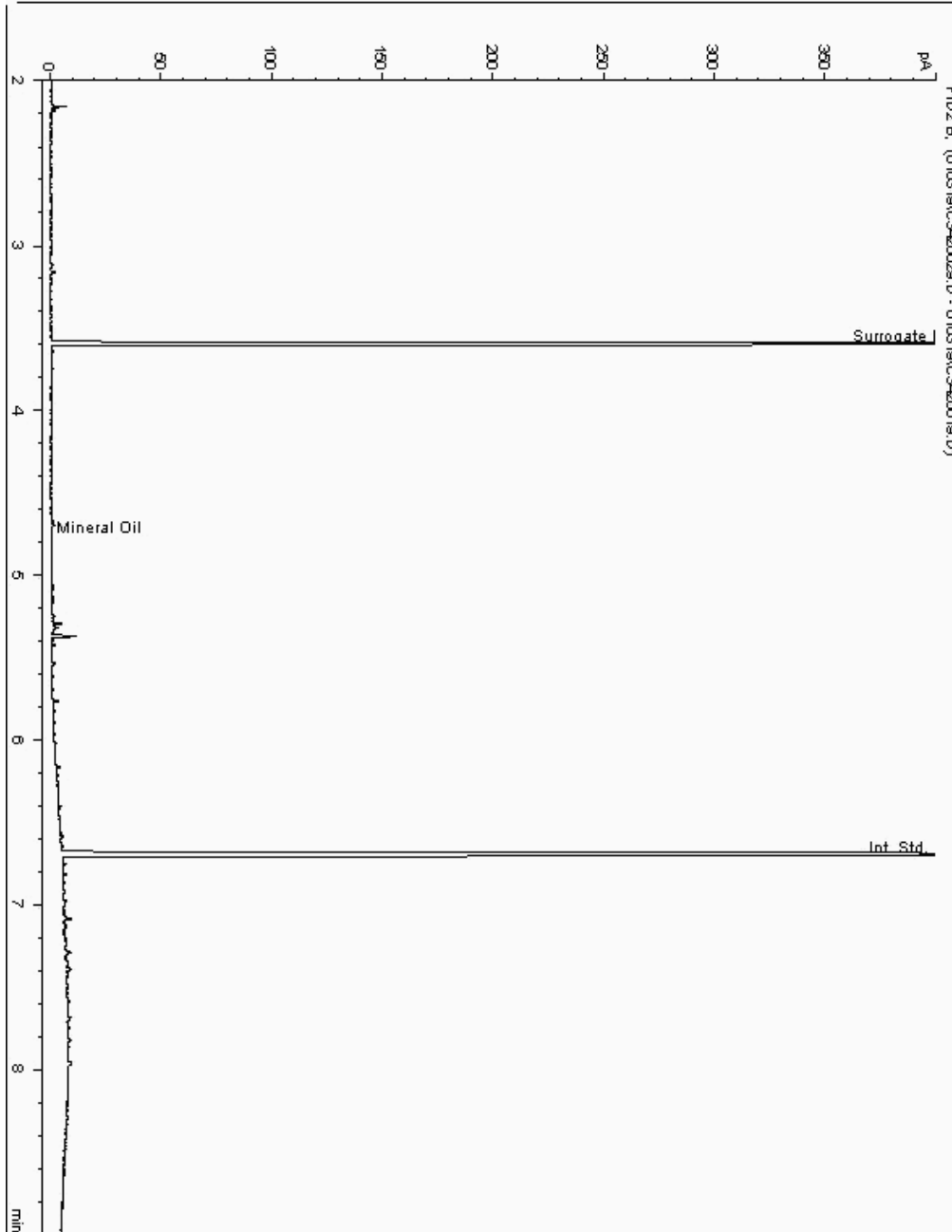
Analysis: Mineral Oil

Sample No : 19022072
Sample ID : BH201

Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867232-
Date Acquired : 04/01/2019 10:37:17 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

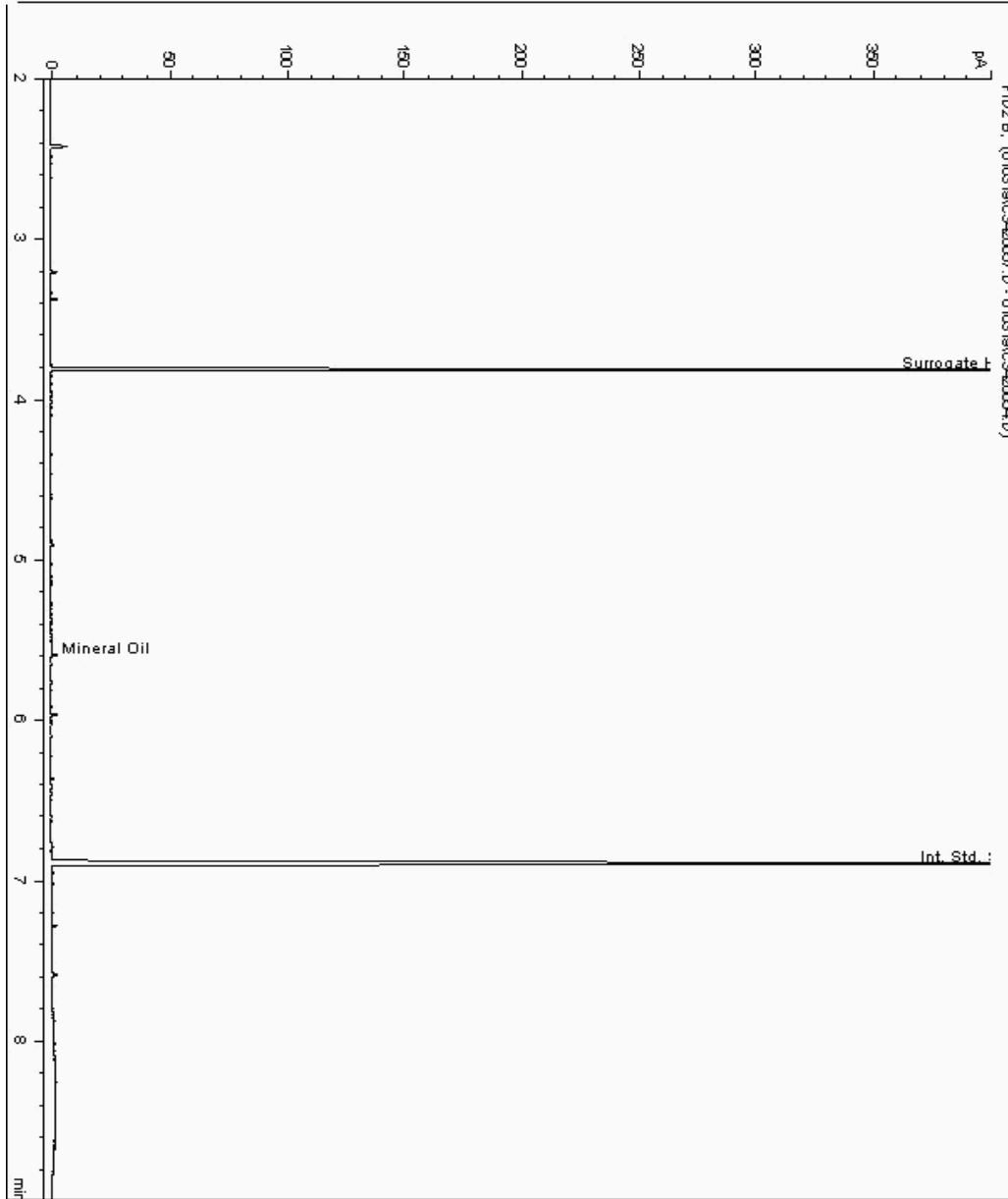
Analysis: Mineral Oil

Sample No : 19022122
Sample ID : BH202

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867628-
Date Acquired : 04/01/19 08:56:39 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 488549
Superseded Report: 488301

Chromatogram

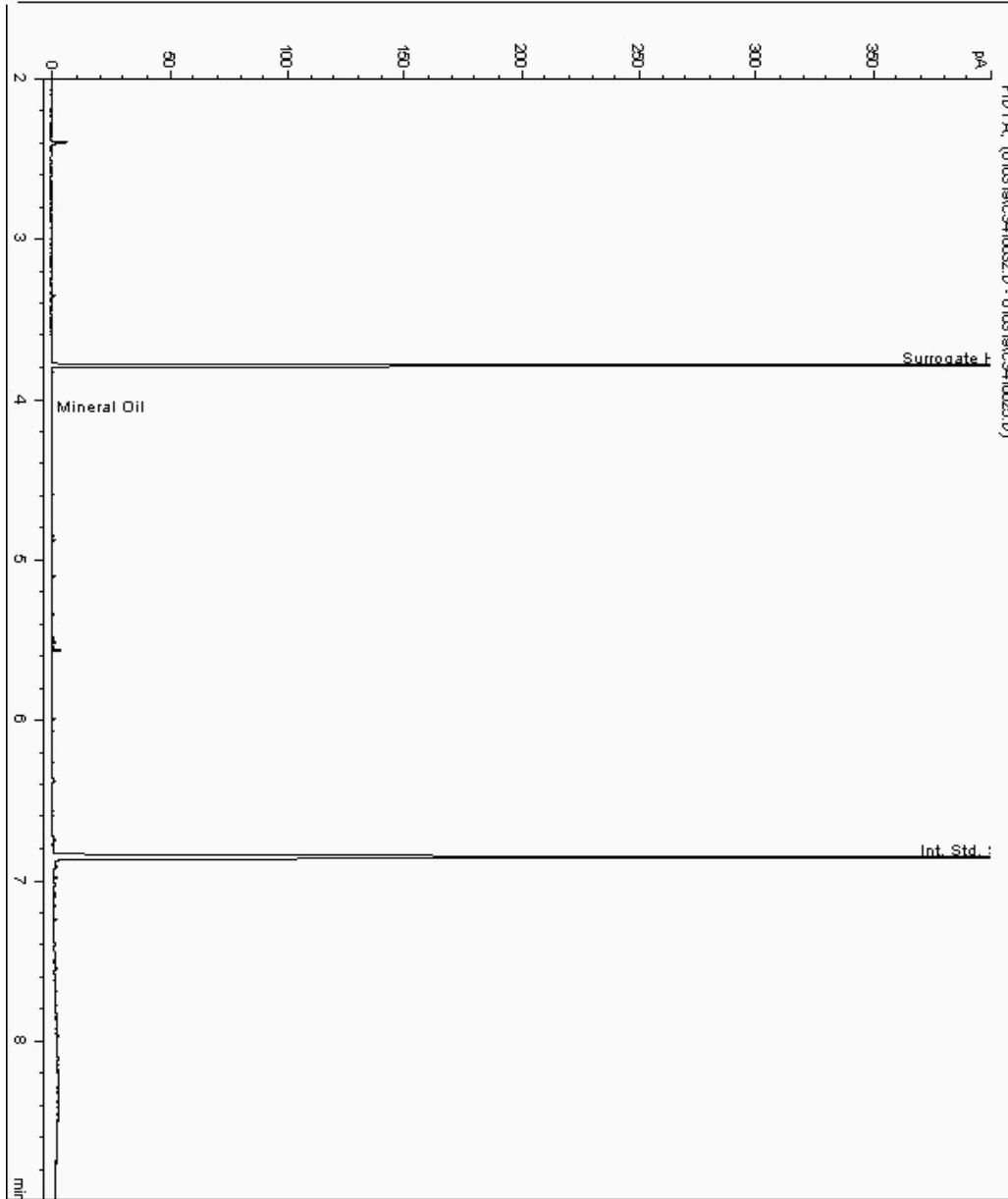
Analysis: Mineral Oil

Sample No : 19022164
Sample ID : BH210

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868883-
Date Acquired : 03/01/19 19:03:22 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

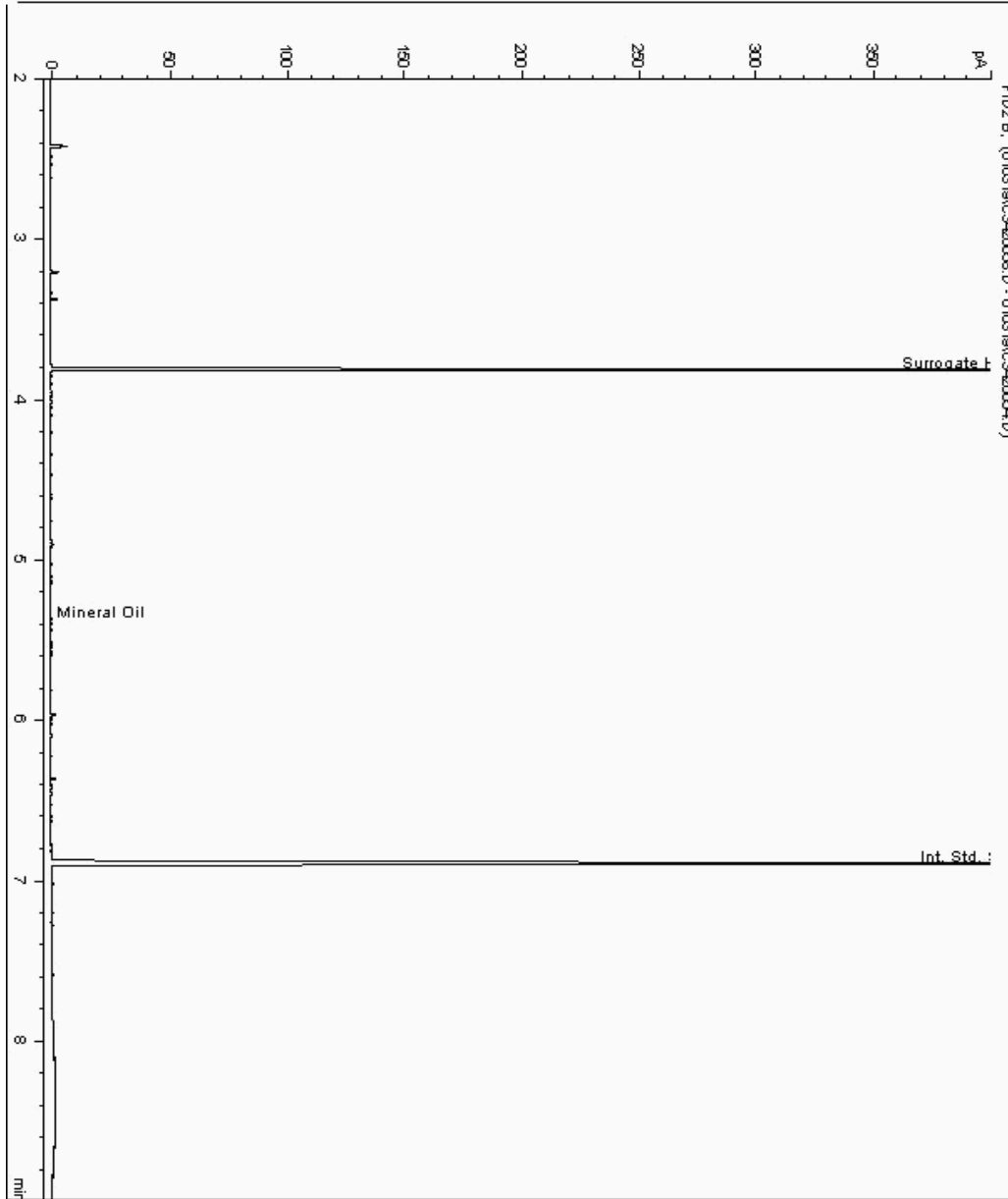
Analysis: Mineral Oil

Sample No : 19022199
Sample ID : BH201

Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867163-
Date Acquired : 04/01/19 09:16:36 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

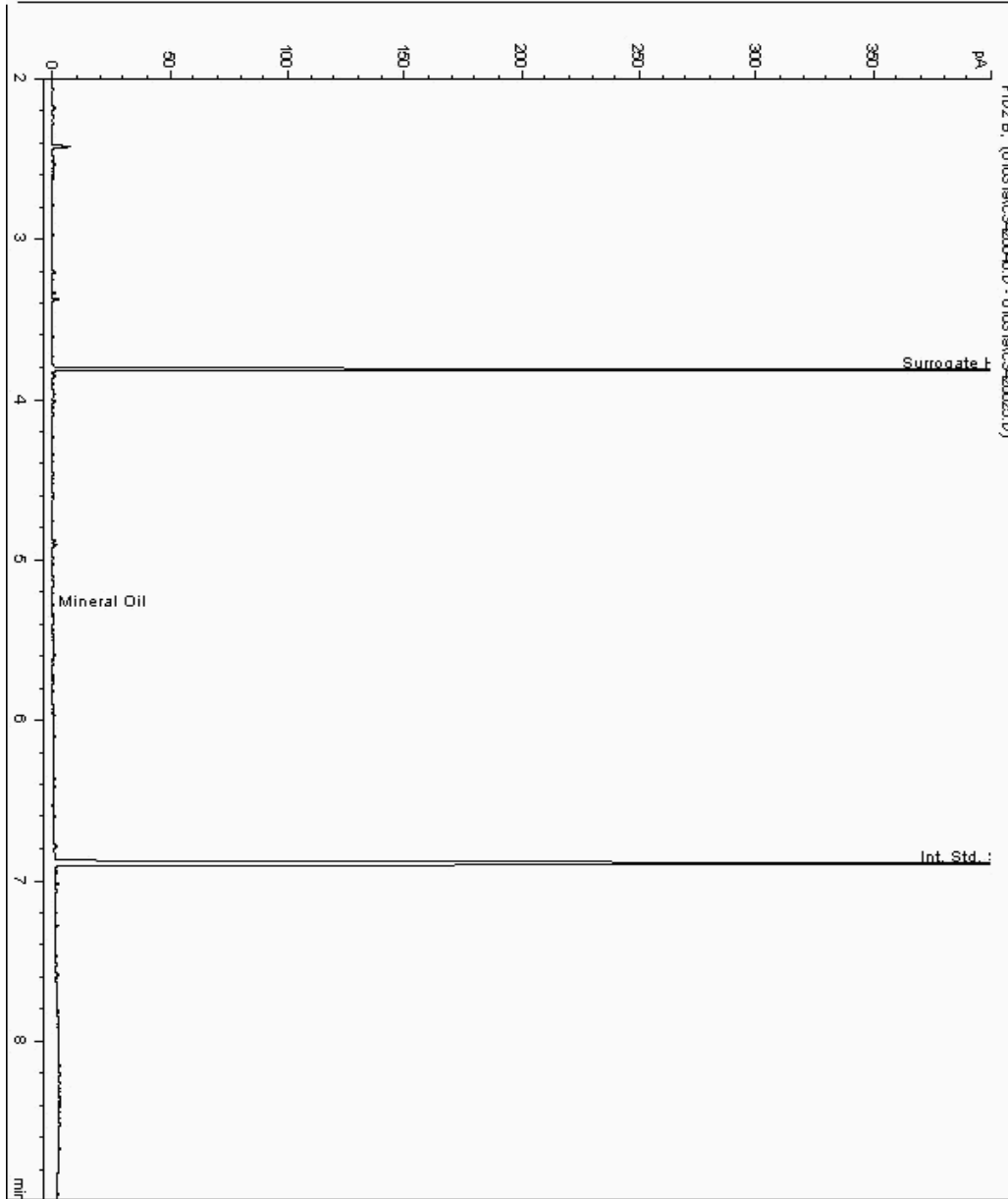
Analysis: Mineral Oil

Sample No : 19022273
Sample ID : BH203

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867812-
Date Acquired : 03/01/19 22:50:10 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

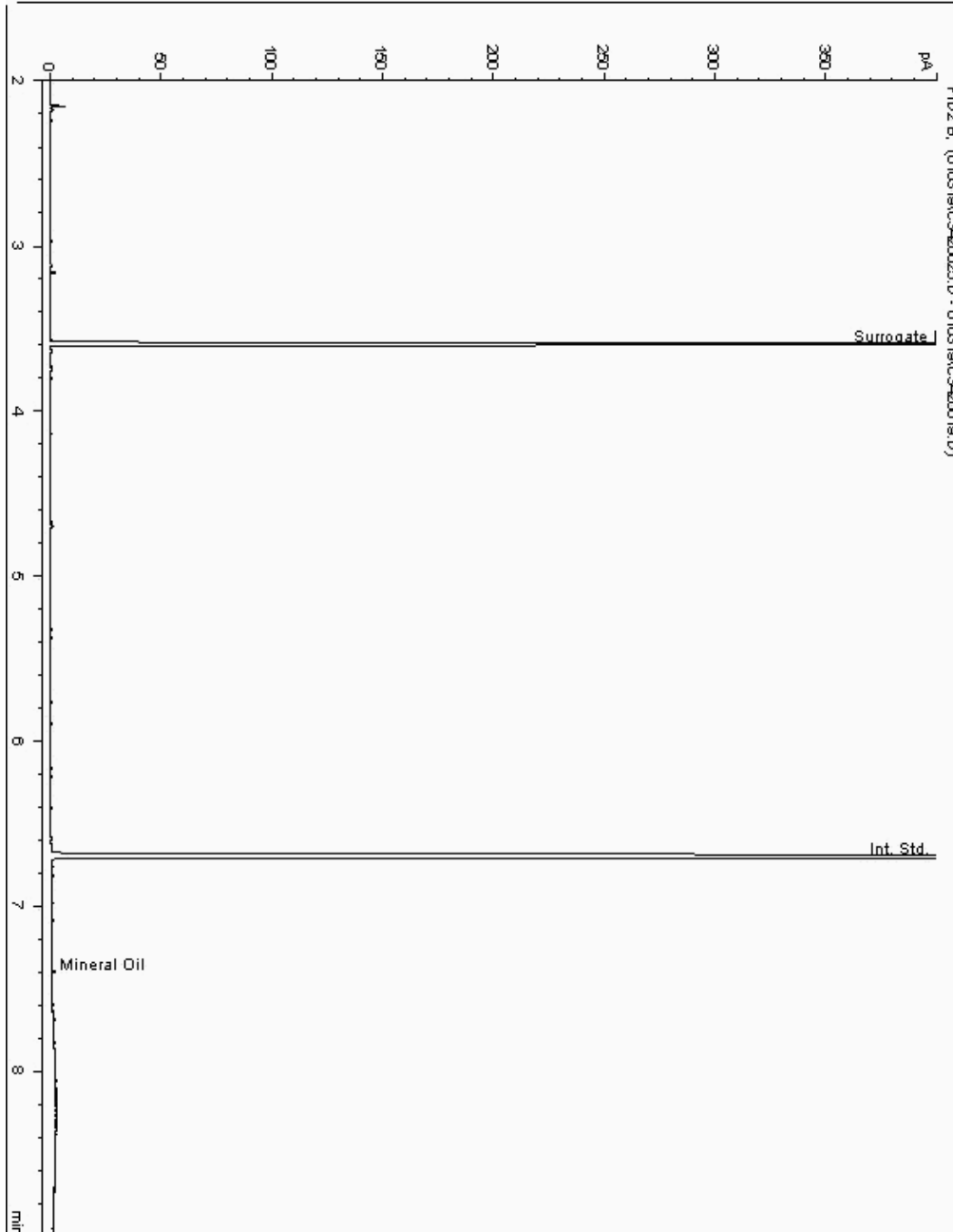
Analysis: Mineral Oil

Sample No : 19022330
Sample ID : BH203

Depth : 5.00 - 6.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17867894-
Date Acquired : 03/01/2019 17:33:34 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

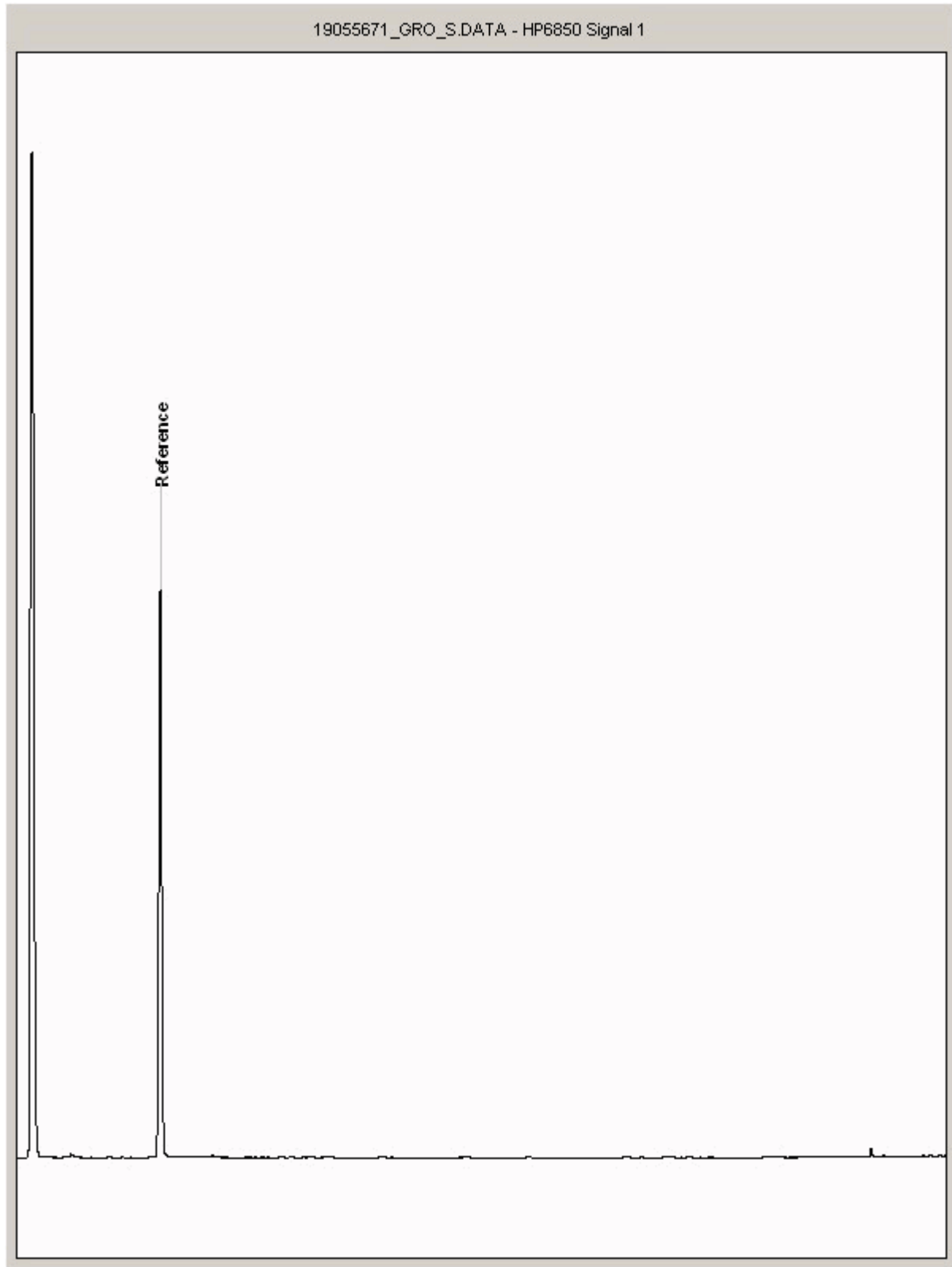
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19055671
Sample ID : BH203

Depth : 5.00 - 6.00





CERTIFICATE OF ANALYSIS

Validated

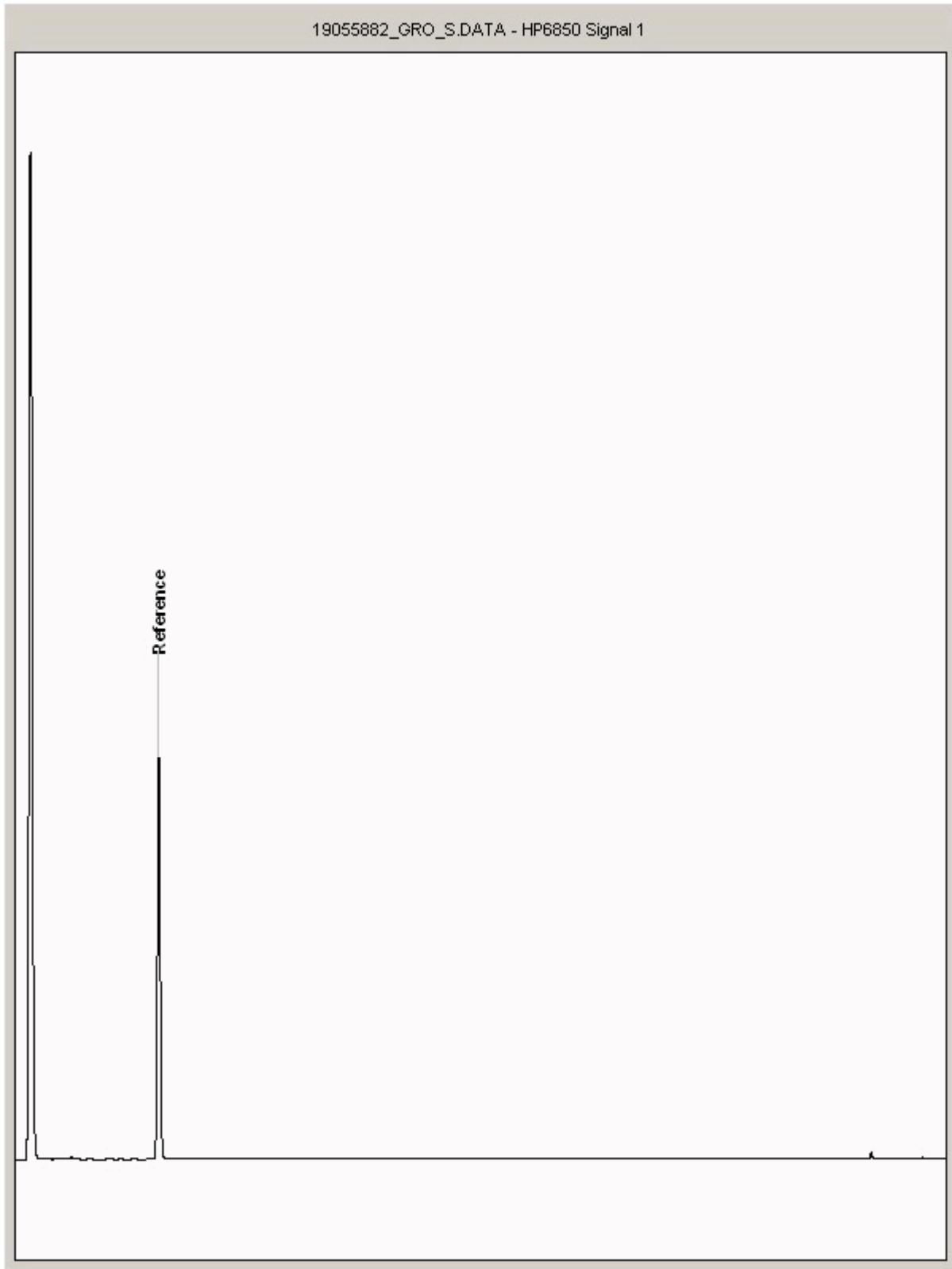
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19055882
Sample ID : BH210

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

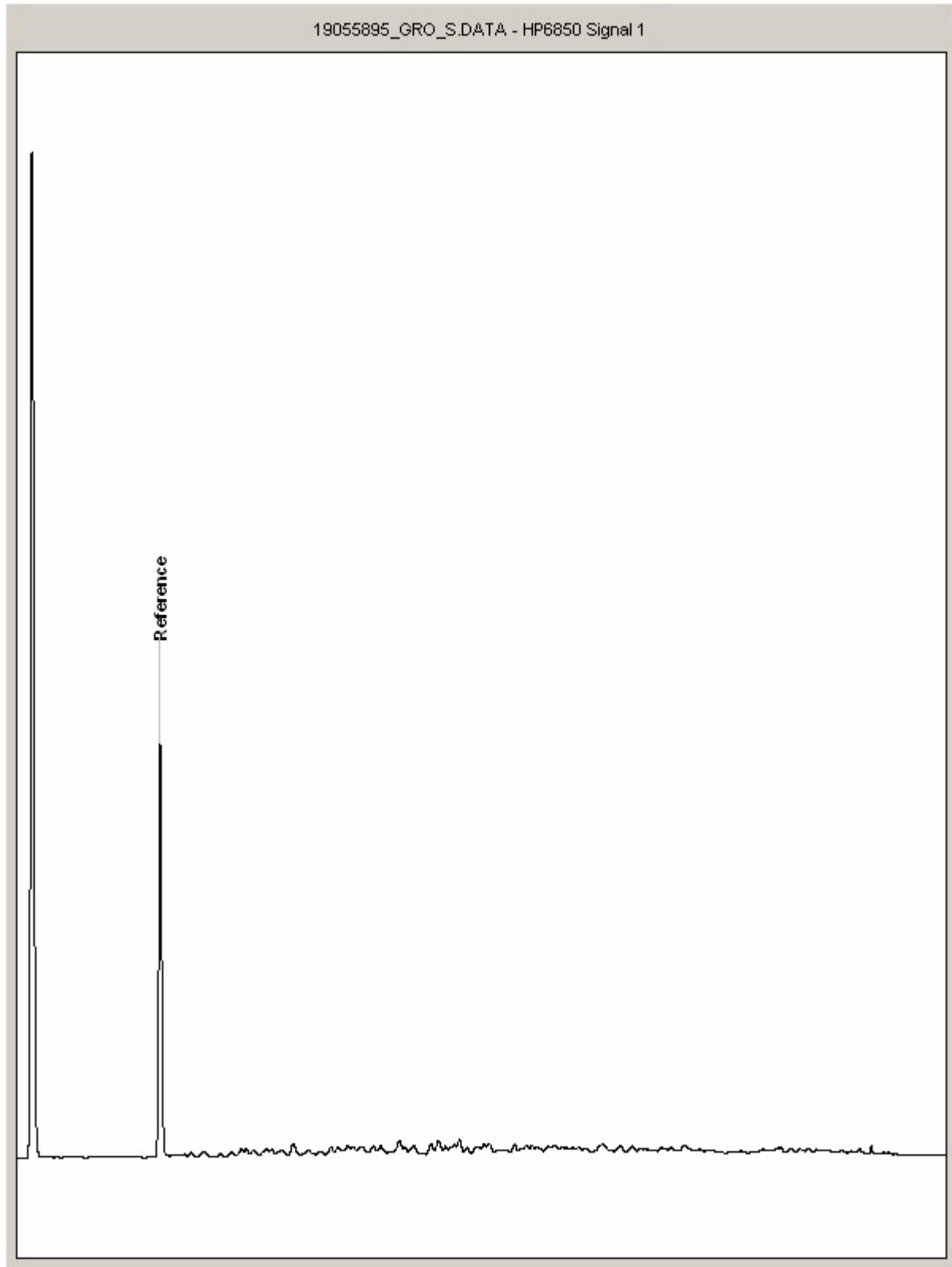
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19055895
Sample ID : BH205

Depth : 0.00 - 1.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

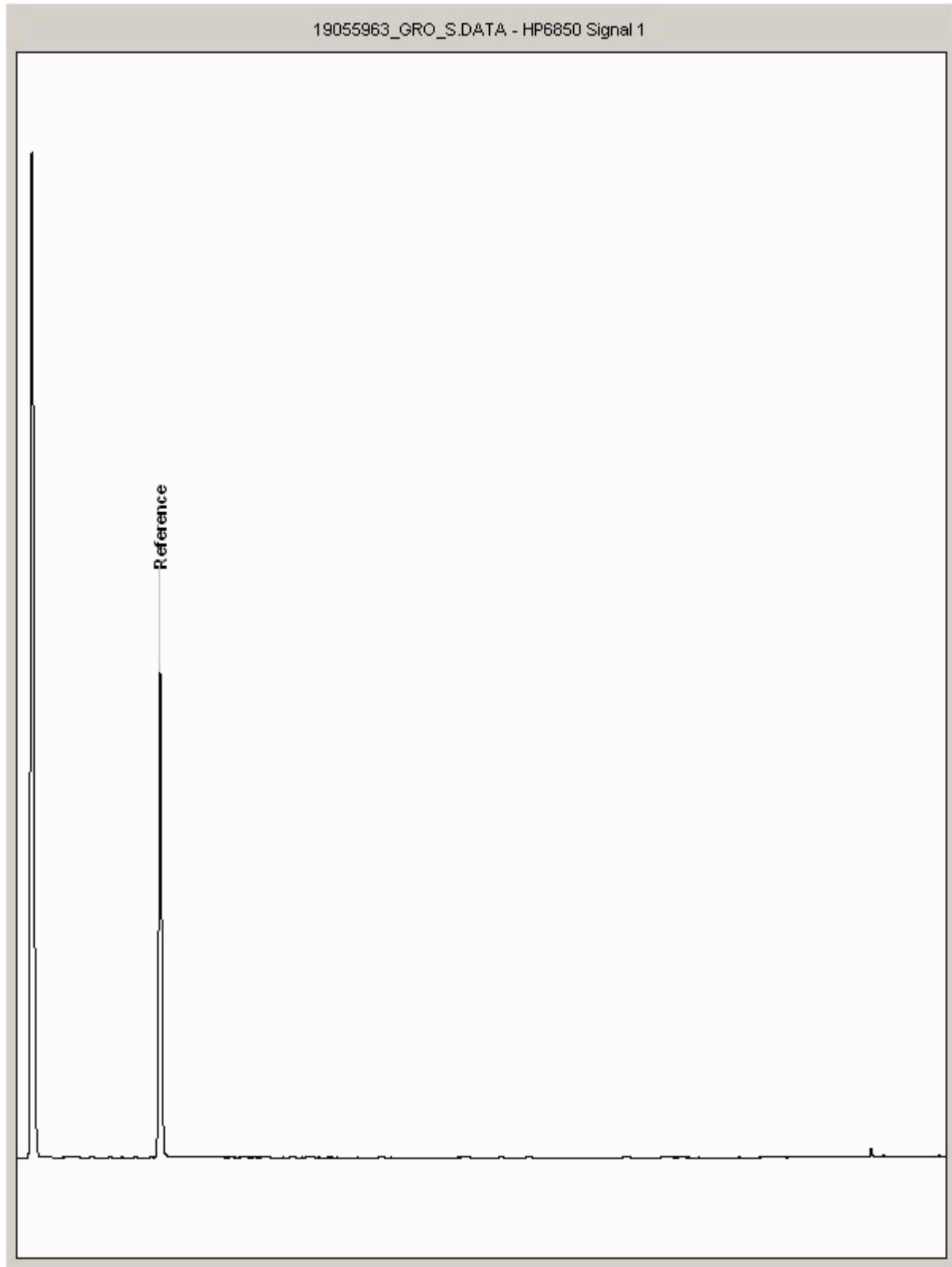
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19055963
Sample ID : BH210

Depth : 1.00 - 2.00





CERTIFICATE OF ANALYSIS

Validated

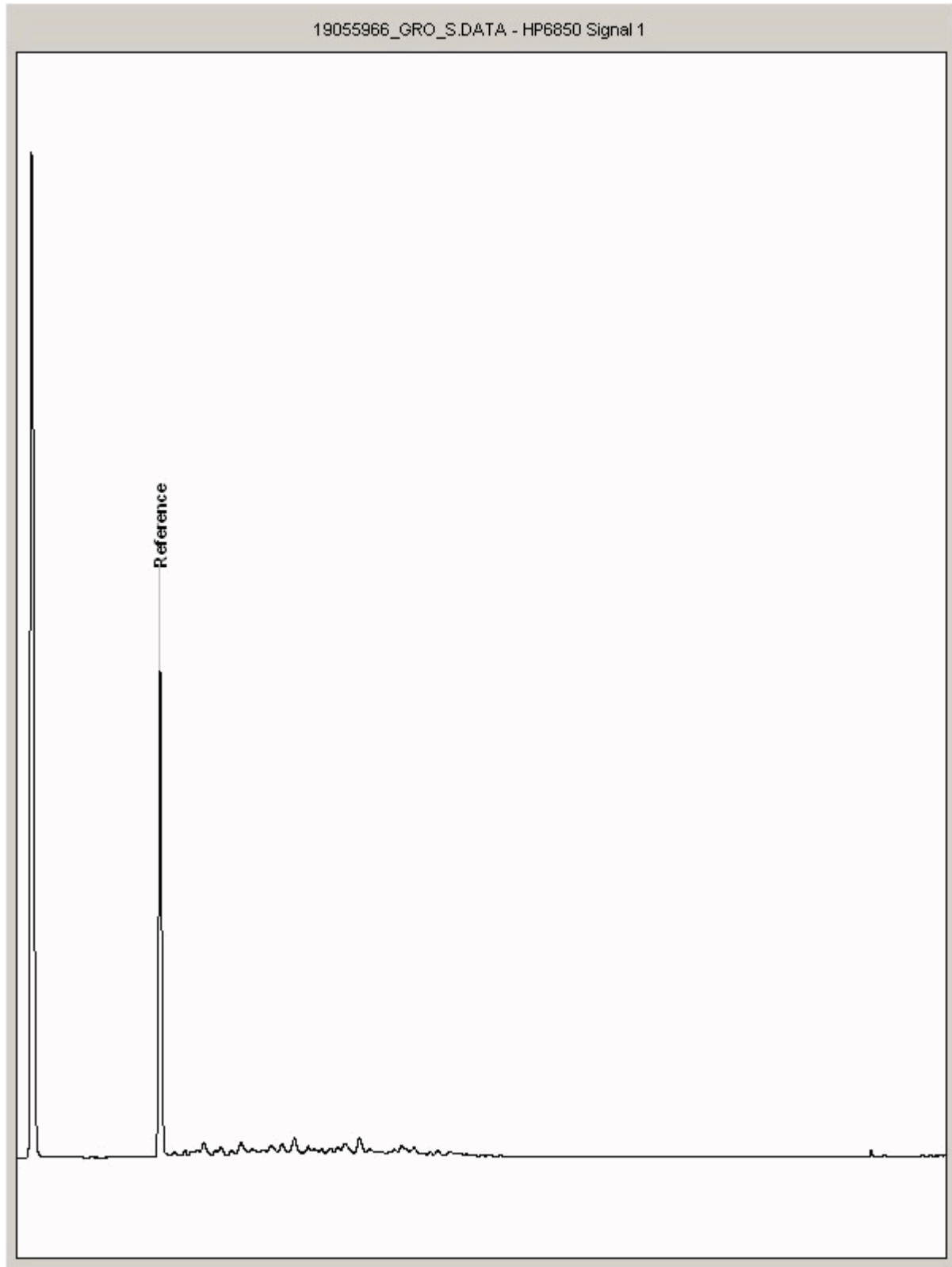
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19055966
Sample ID : BH205

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

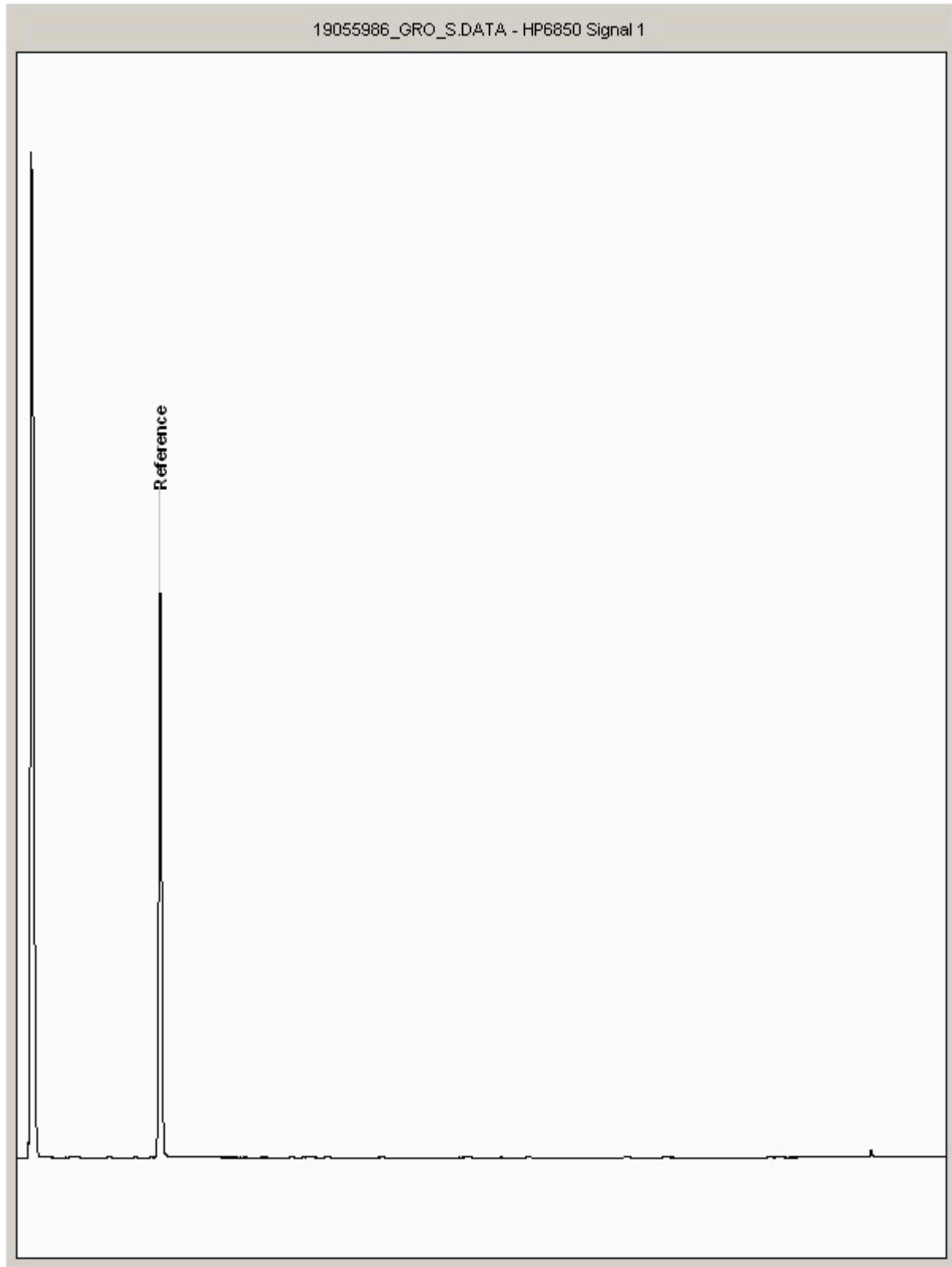
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19055986
Sample ID : BH203

Depth : 7.00 - 8.00





CERTIFICATE OF ANALYSIS

Validated

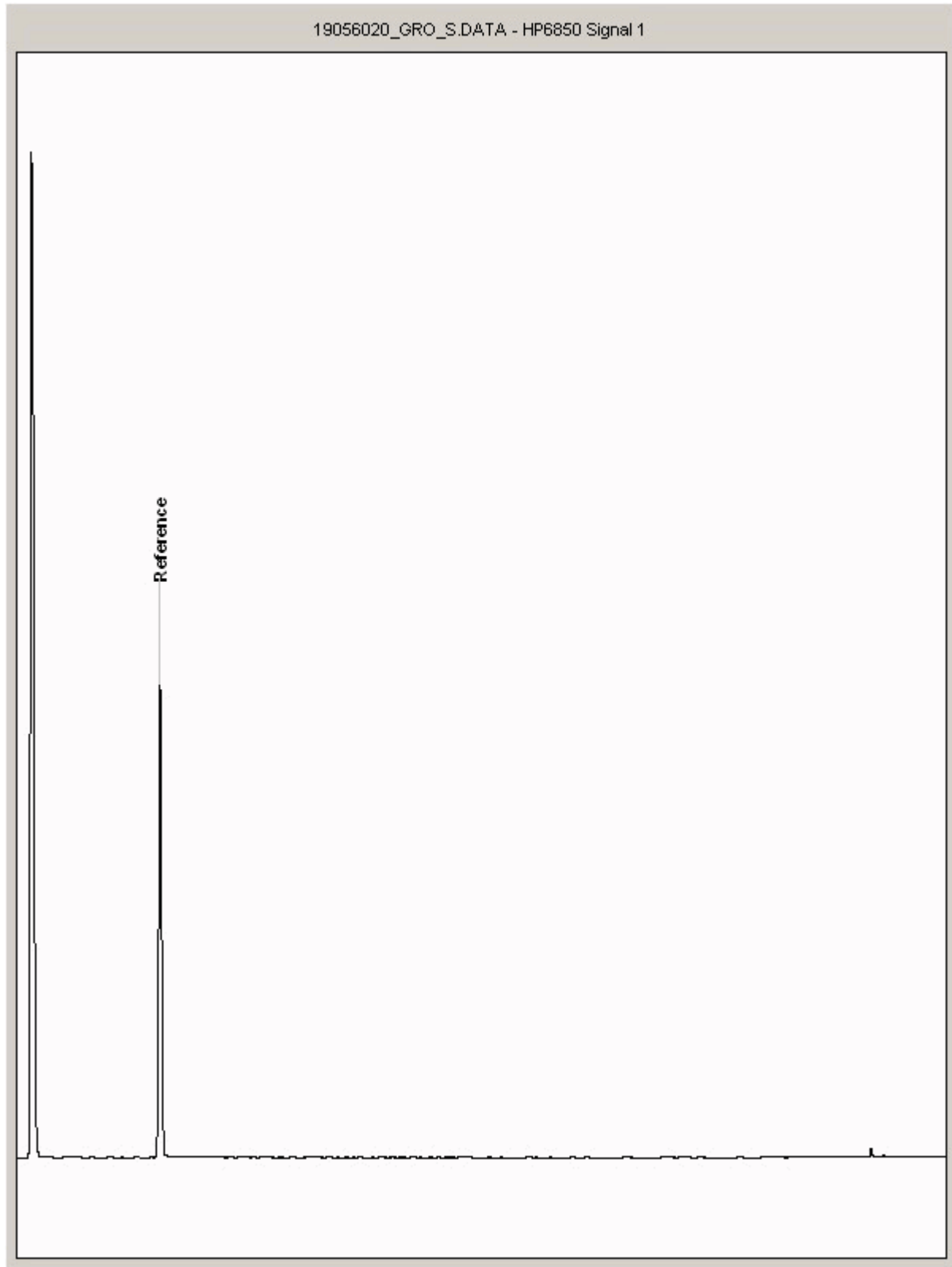
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056020
Sample ID : BH210

Depth : 0.00 - 1.00





CERTIFICATE OF ANALYSIS

Validated

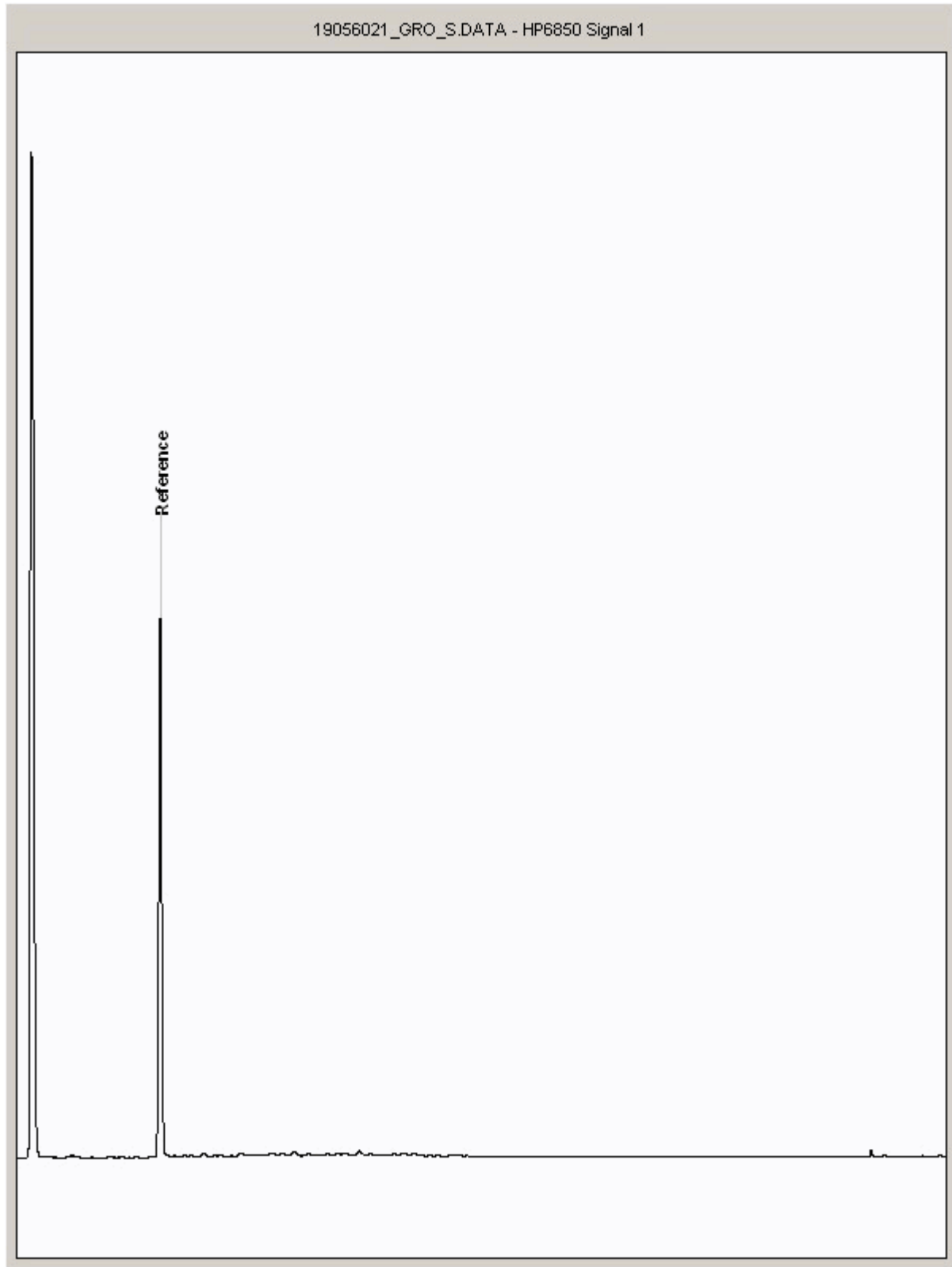
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056021
Sample ID : BH205

Depth : 5.50 - 7.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

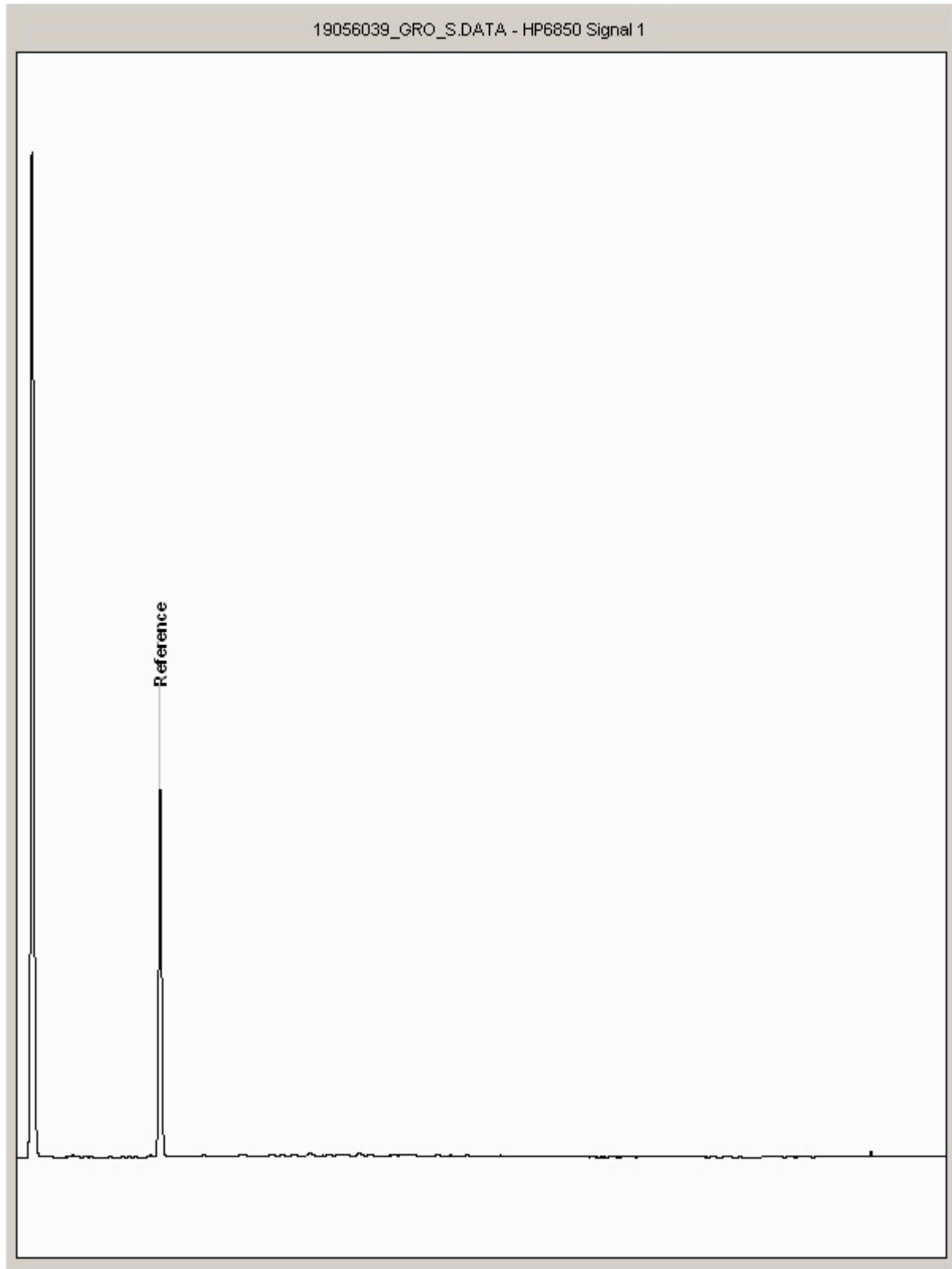
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056039
Sample ID : BH205

Depth : 4.00 - 5.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

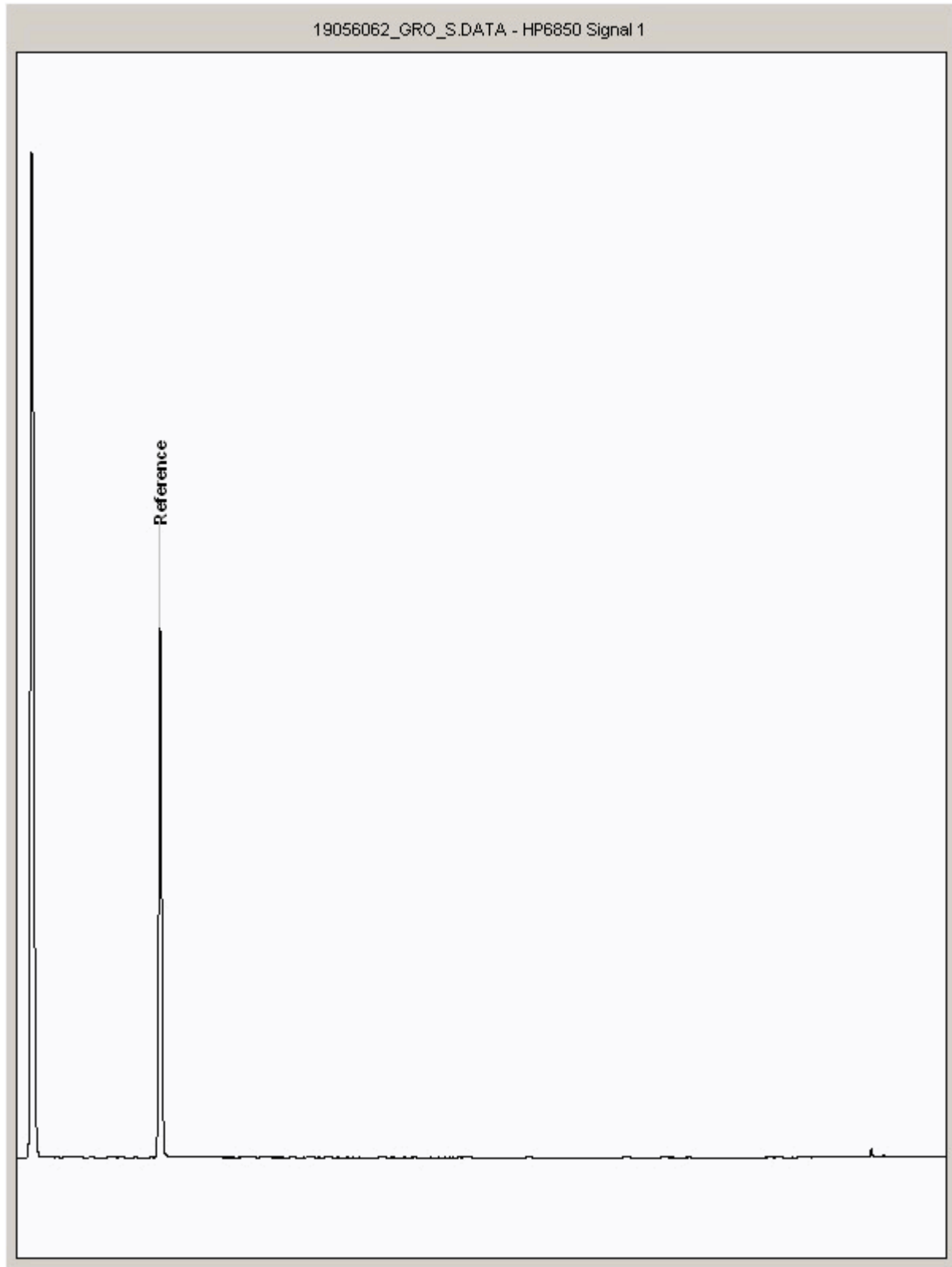
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056062
Sample ID : BH202

Depth : 8.00 - 9.00





CERTIFICATE OF ANALYSIS

Validated

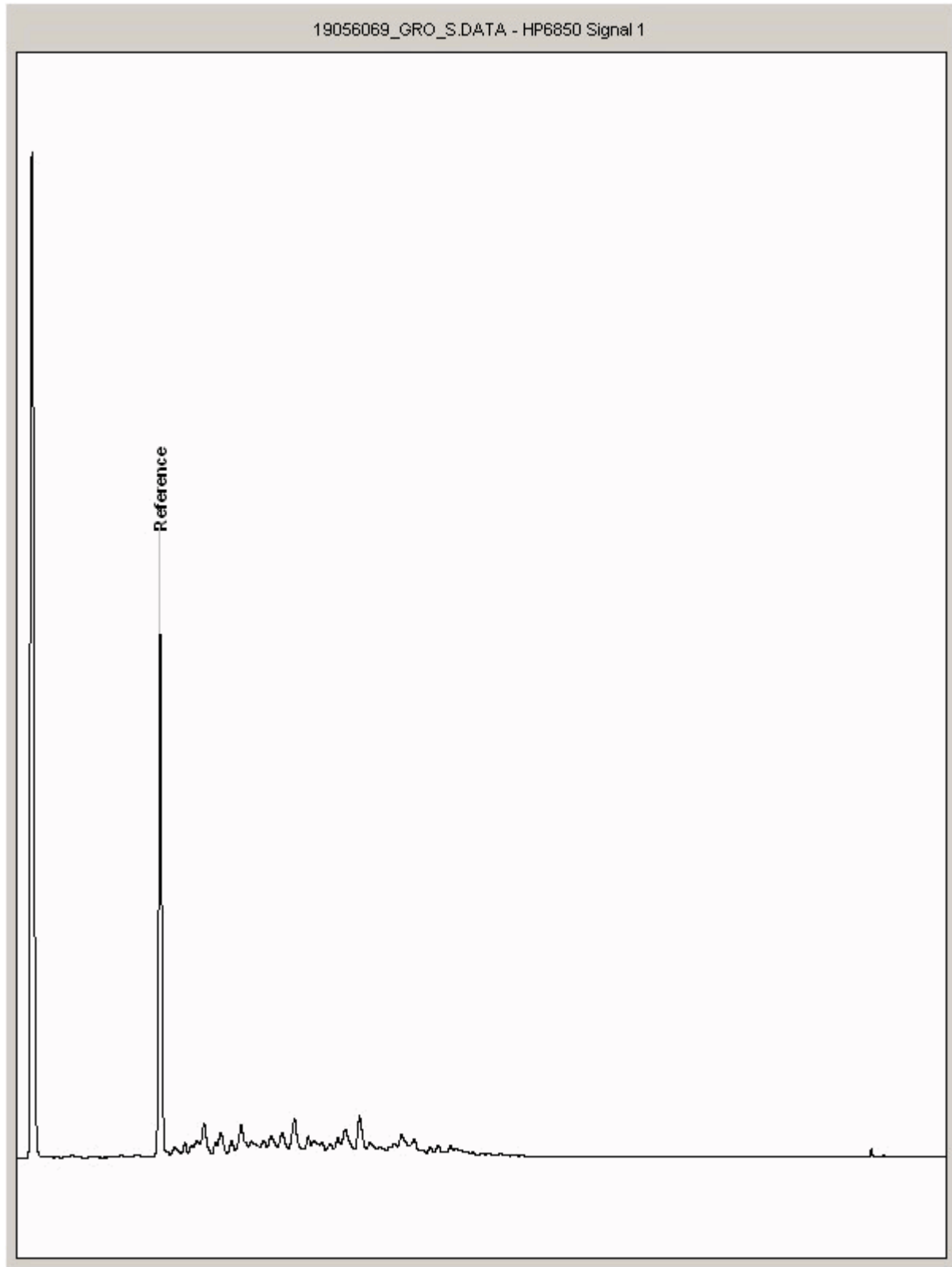
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056069
Sample ID : BH205

Depth : 1.50 - 2.00





CERTIFICATE OF ANALYSIS

Validated

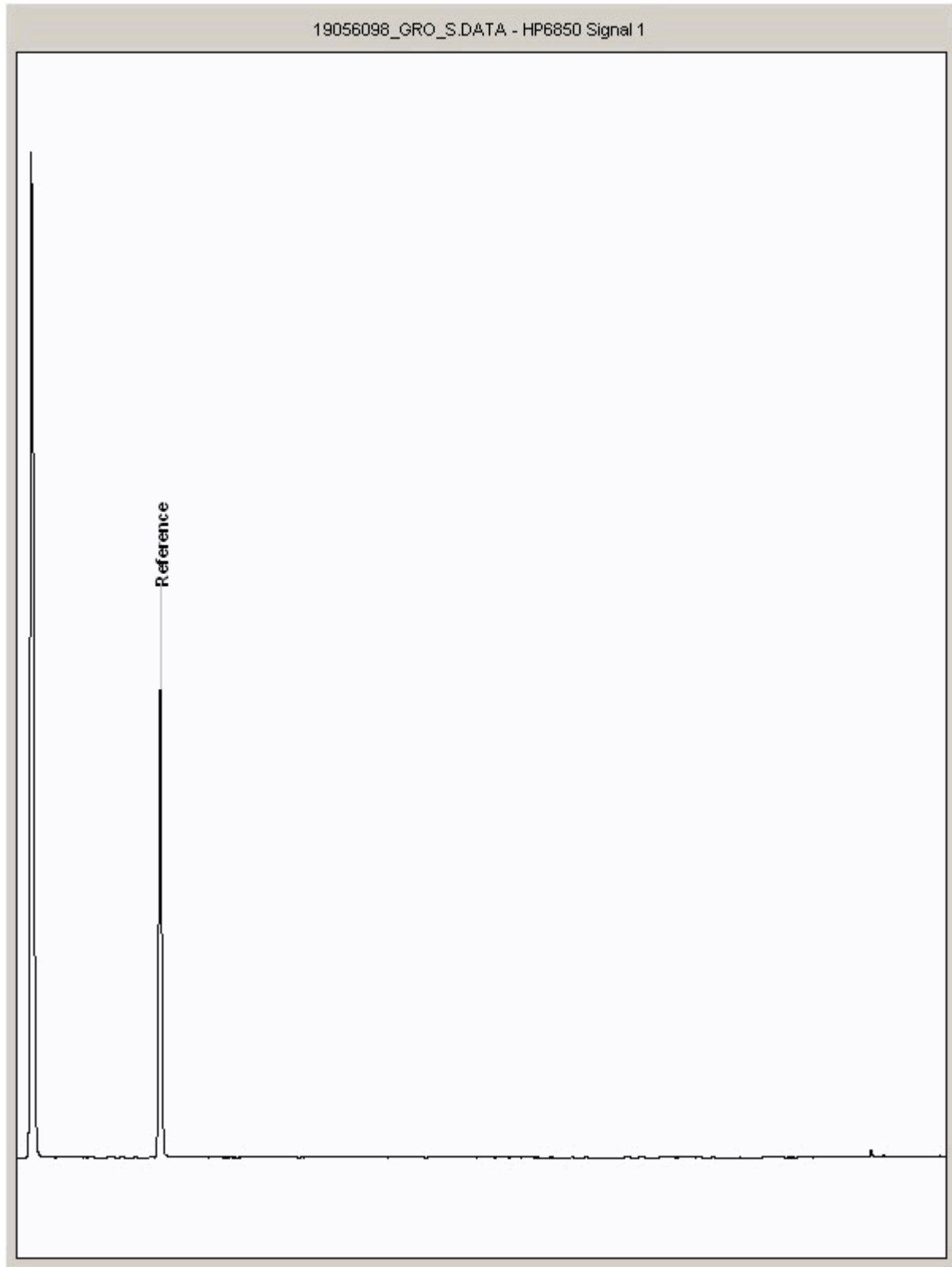
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056098
Sample ID : BH203

Depth : 4.00 - 5.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

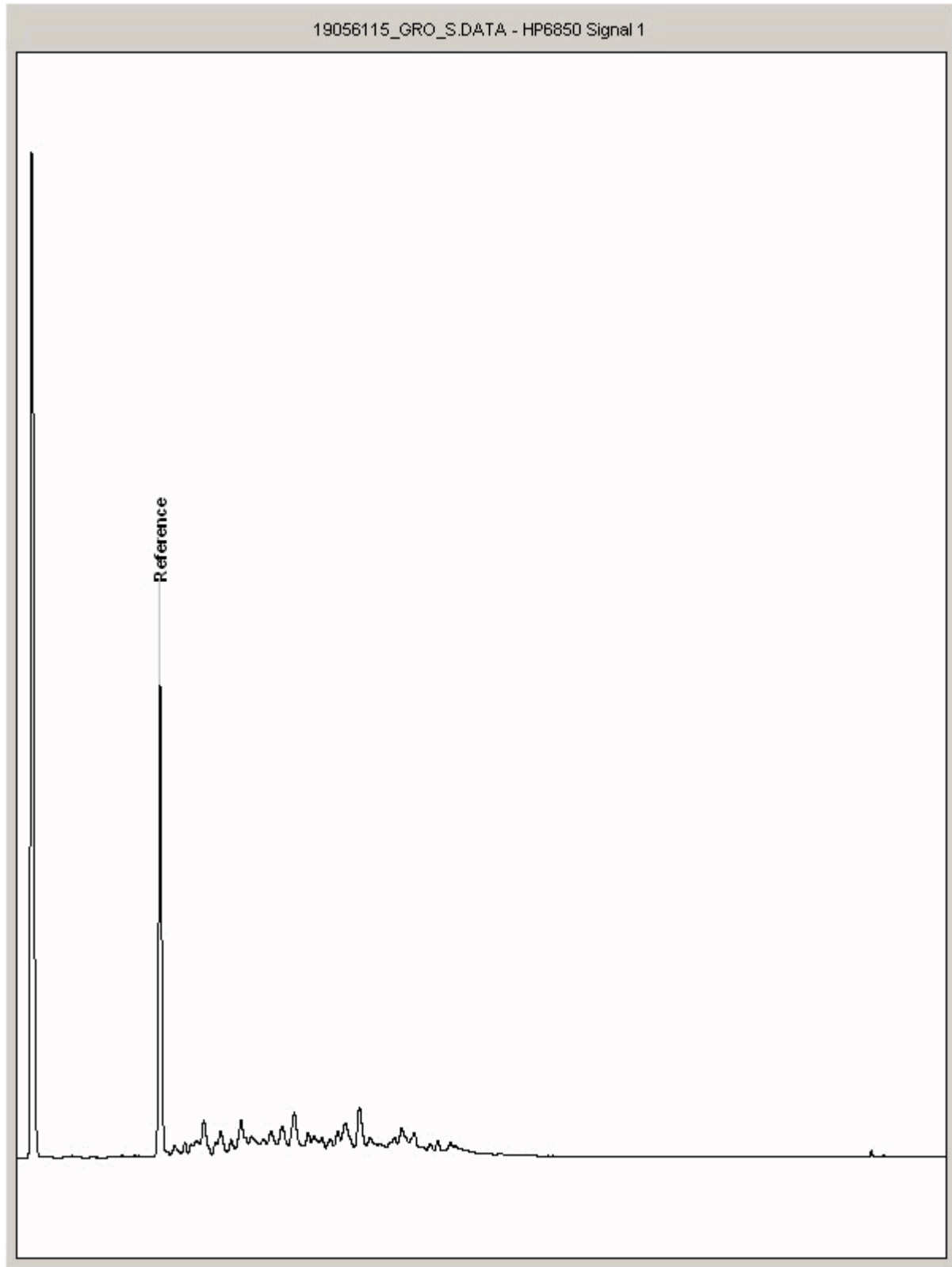
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056115
Sample ID : BH205

Depth : 1.00 - 1.50





CERTIFICATE OF ANALYSIS

Validated

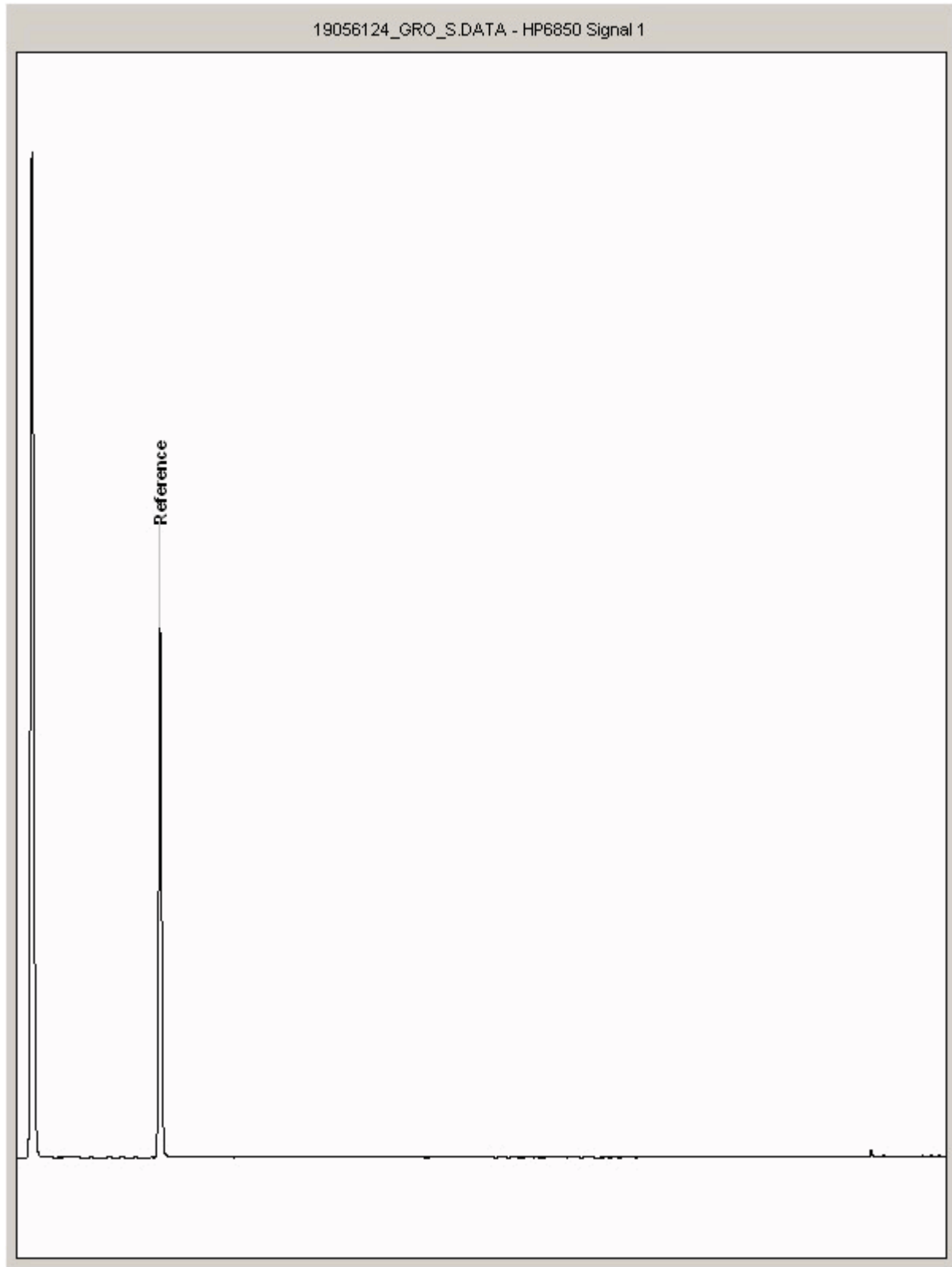
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056124
Sample ID : BH203

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

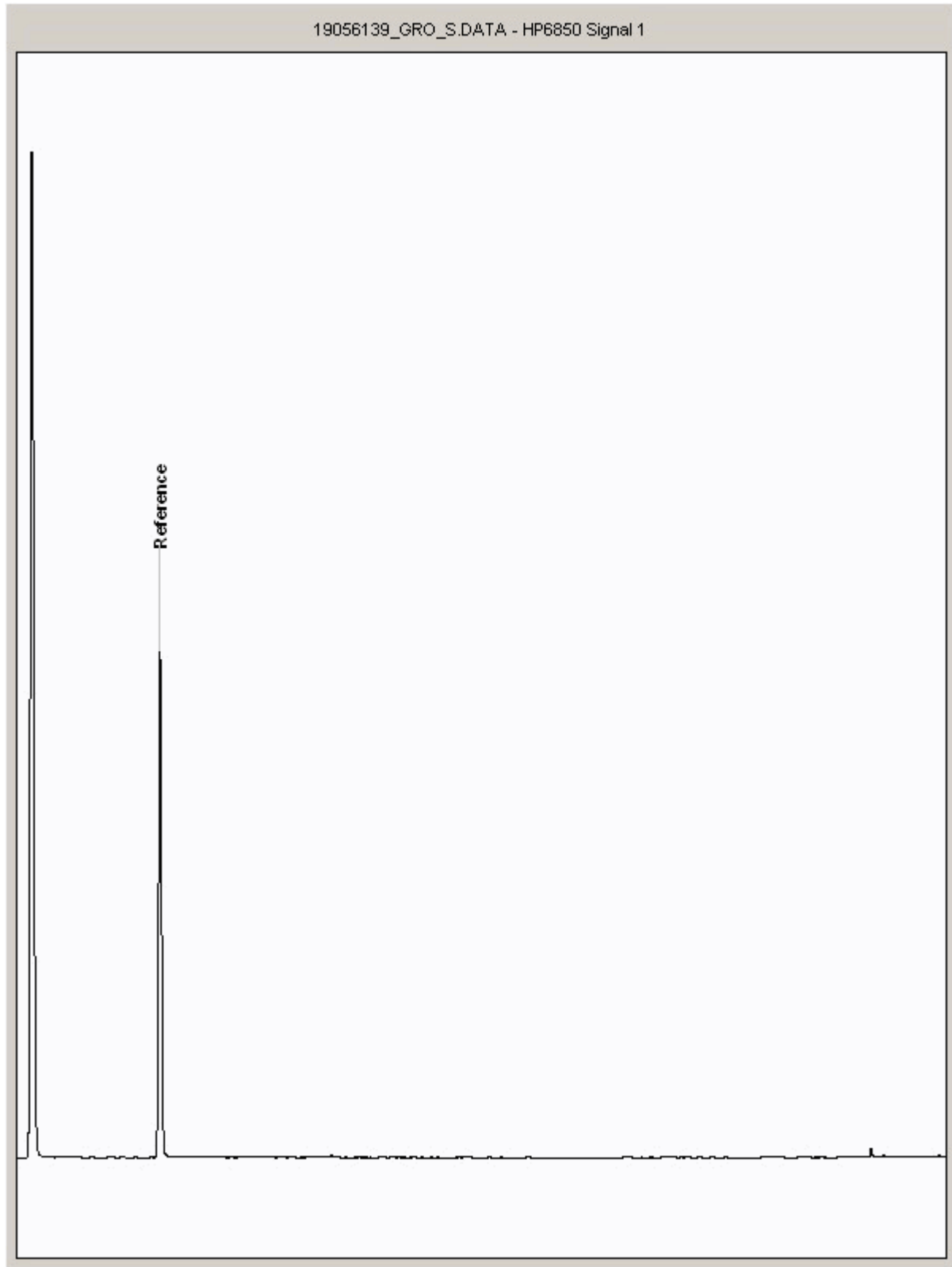
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056139
Sample ID : BH210

Depth : 4.00 - 5.50





CERTIFICATE OF ANALYSIS

Validated

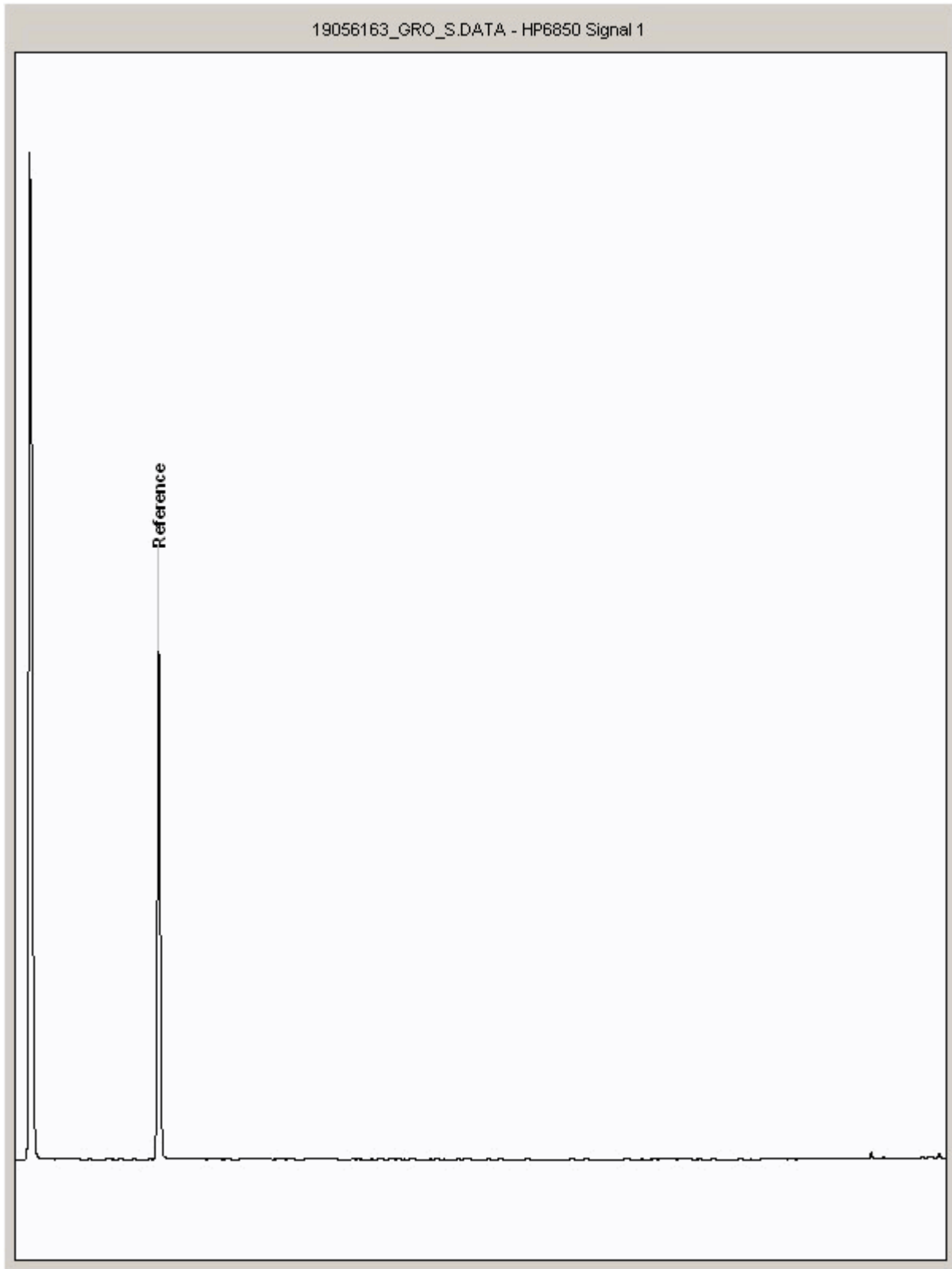
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056163
Sample ID : BH202

Depth : 4.00 - 5.00





CERTIFICATE OF ANALYSIS

Validated

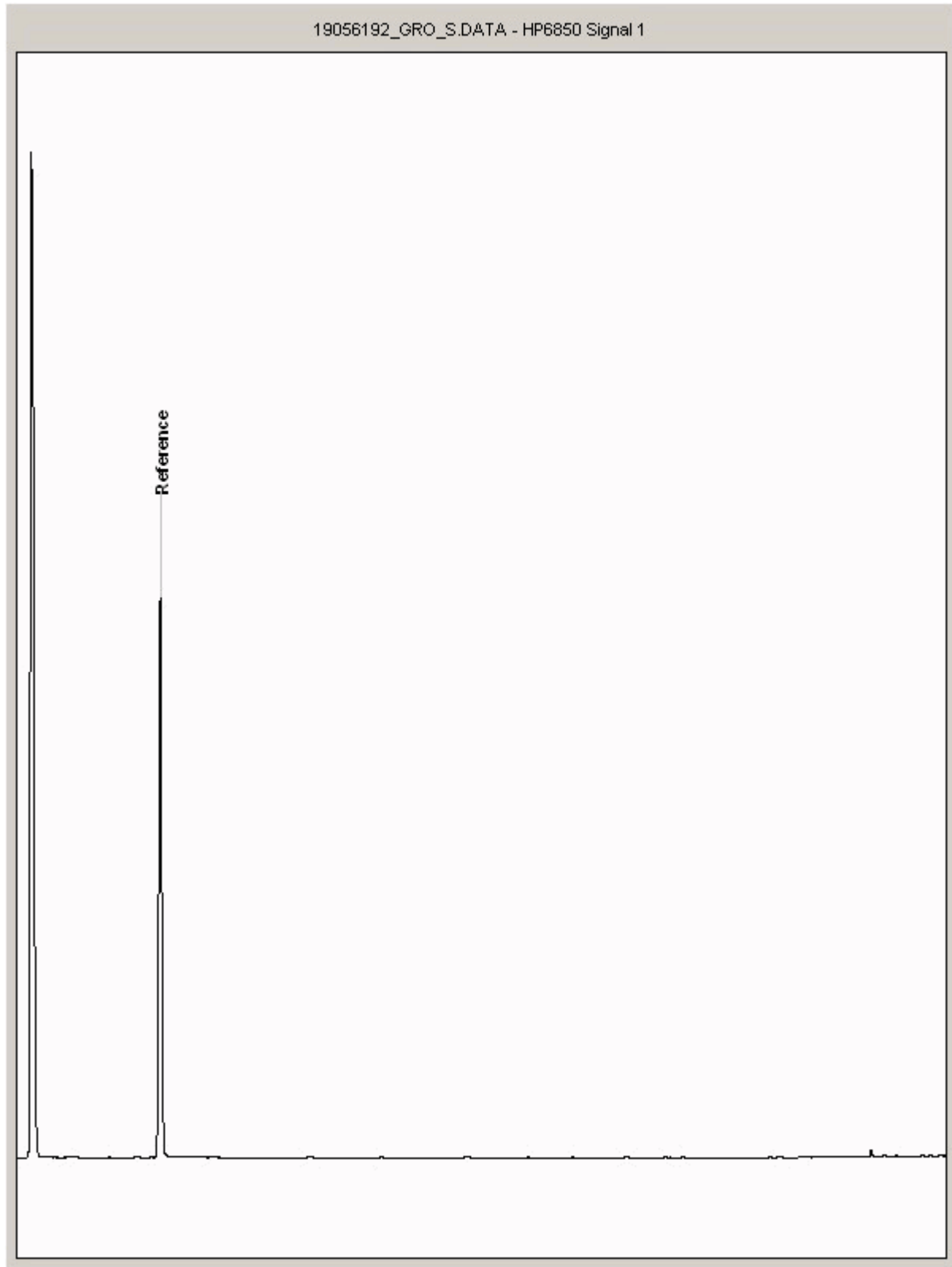
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056192
Sample ID : BH201

Depth : 0.00 - 1.00





CERTIFICATE OF ANALYSIS

Validated

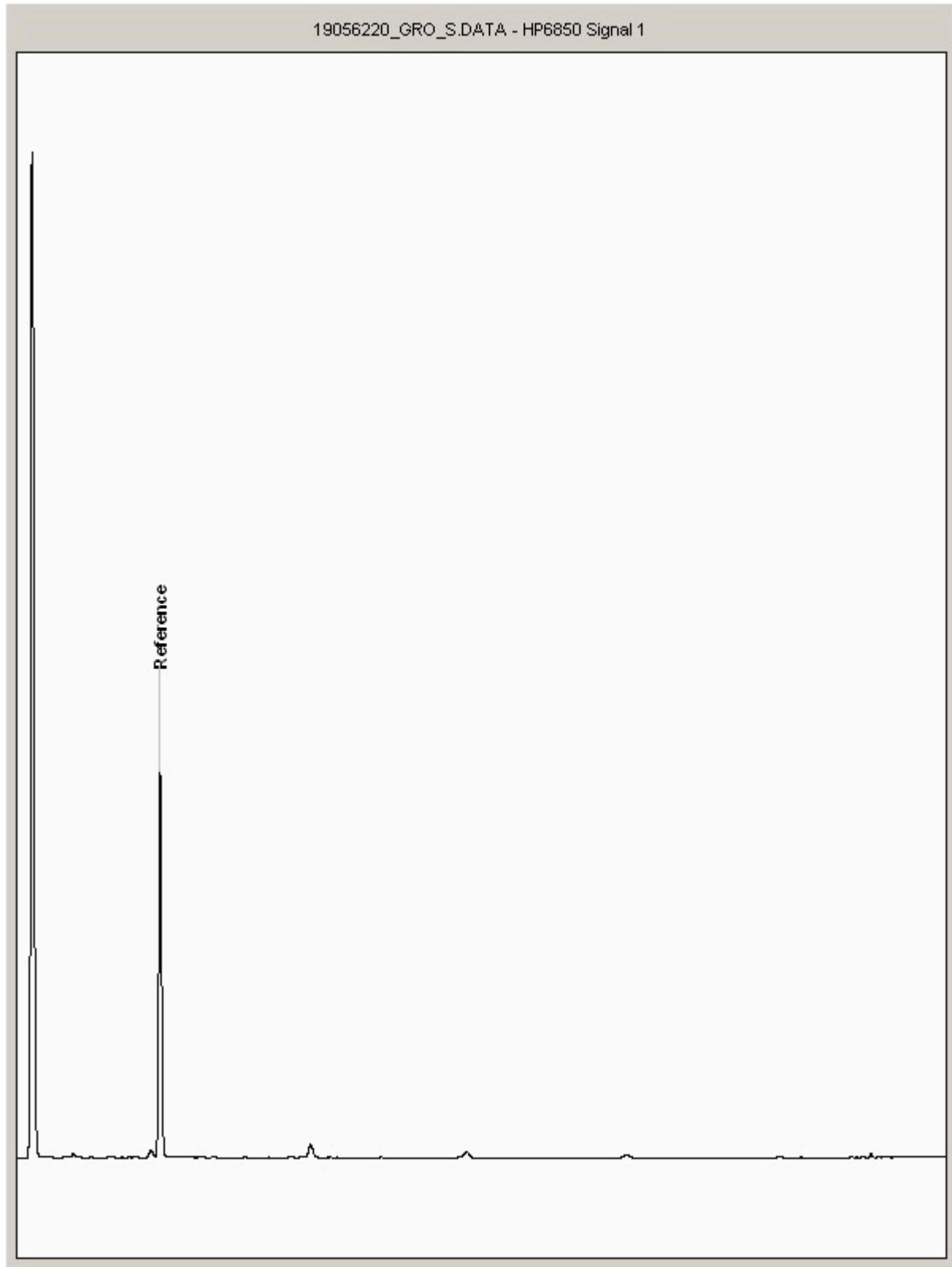
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056220
Sample ID : BH202

Depth : 7.00 - 8.00





CERTIFICATE OF ANALYSIS

Validated

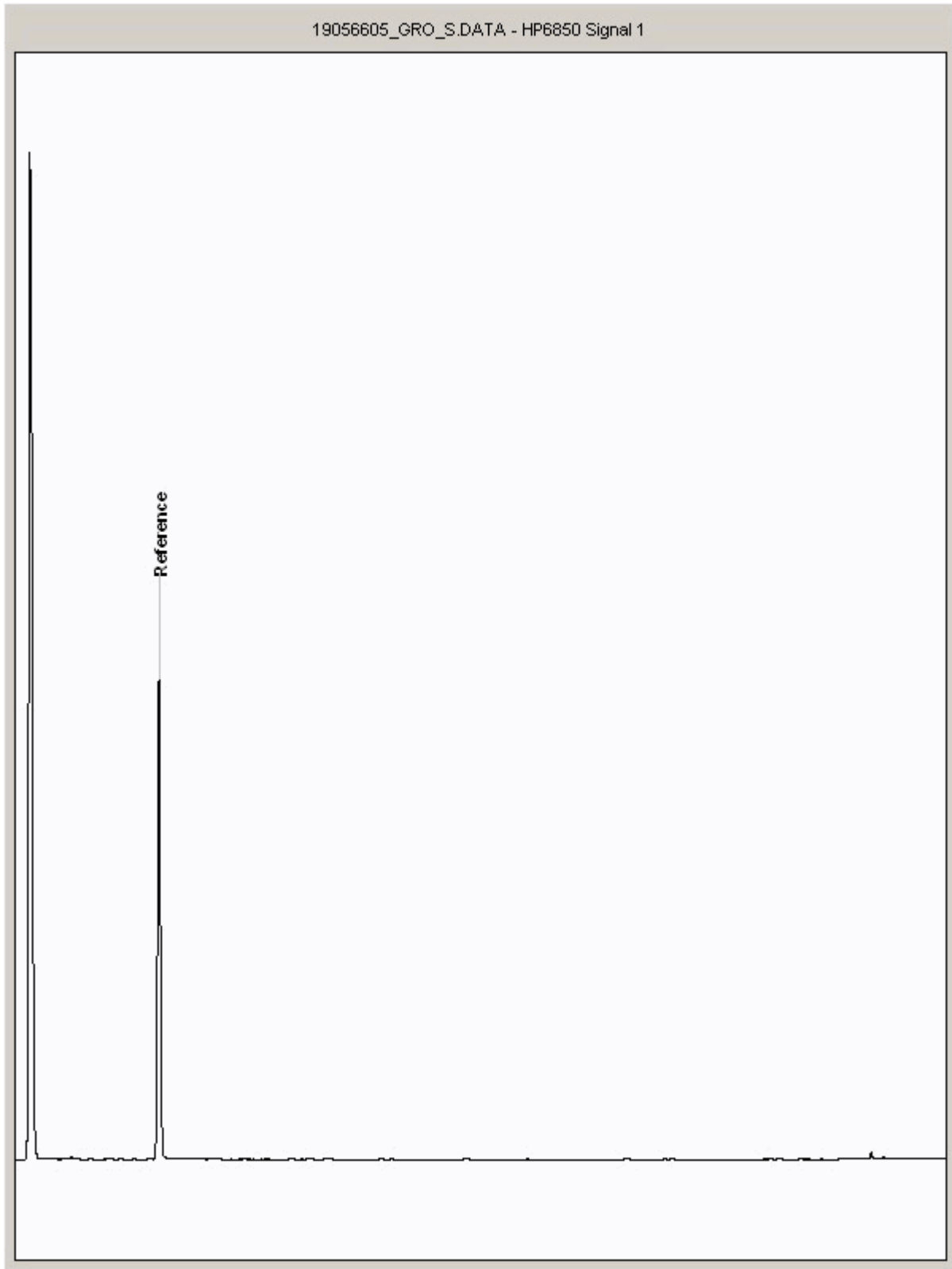
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056605
Sample ID : BH210

Depth : 8.00 - 10.00





CERTIFICATE OF ANALYSIS

Validated

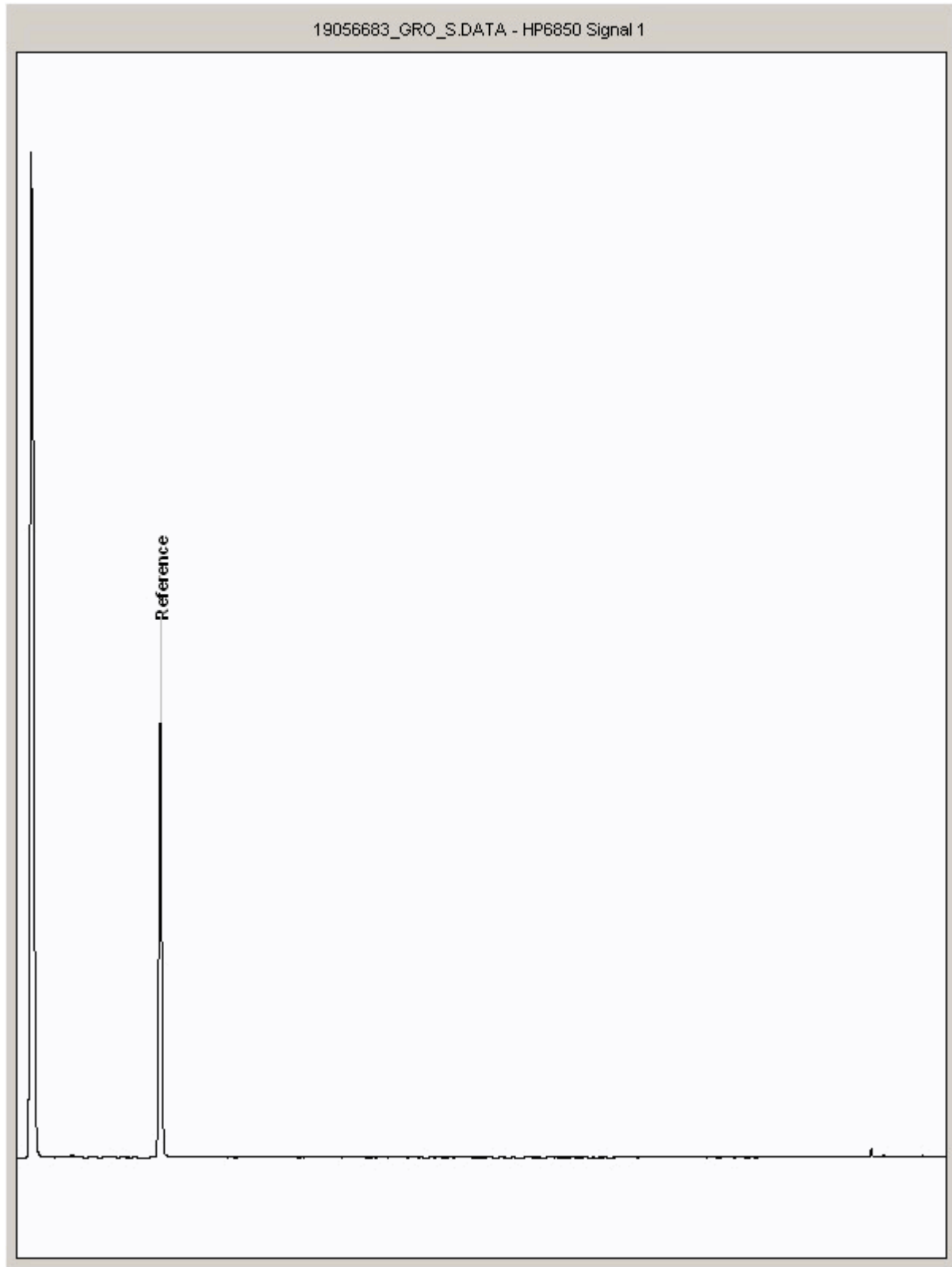
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056683
Sample ID : BH210

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

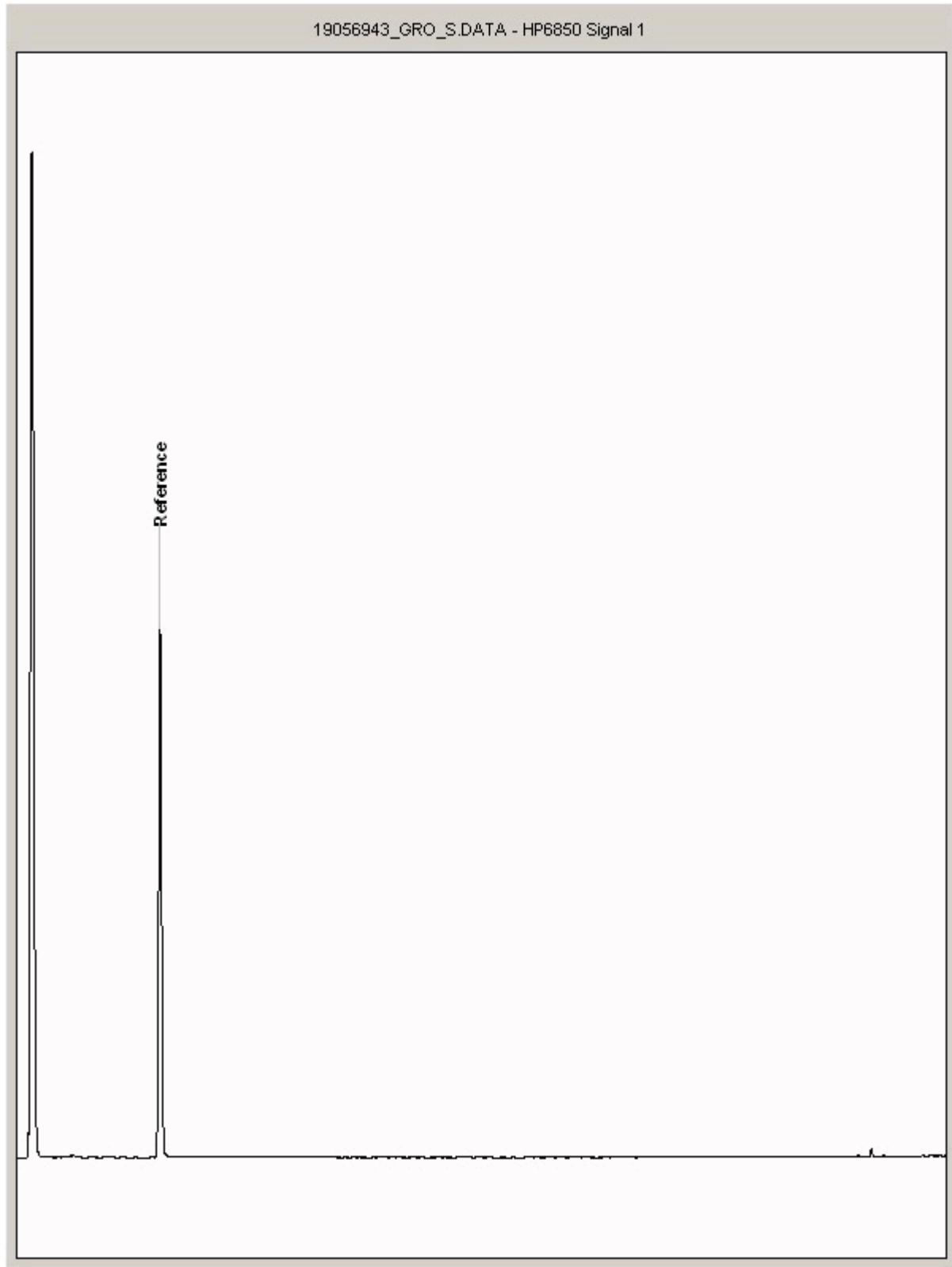
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056943
Sample ID : BH201

Depth : 5.00 - 6.00





CERTIFICATE OF ANALYSIS

Validated

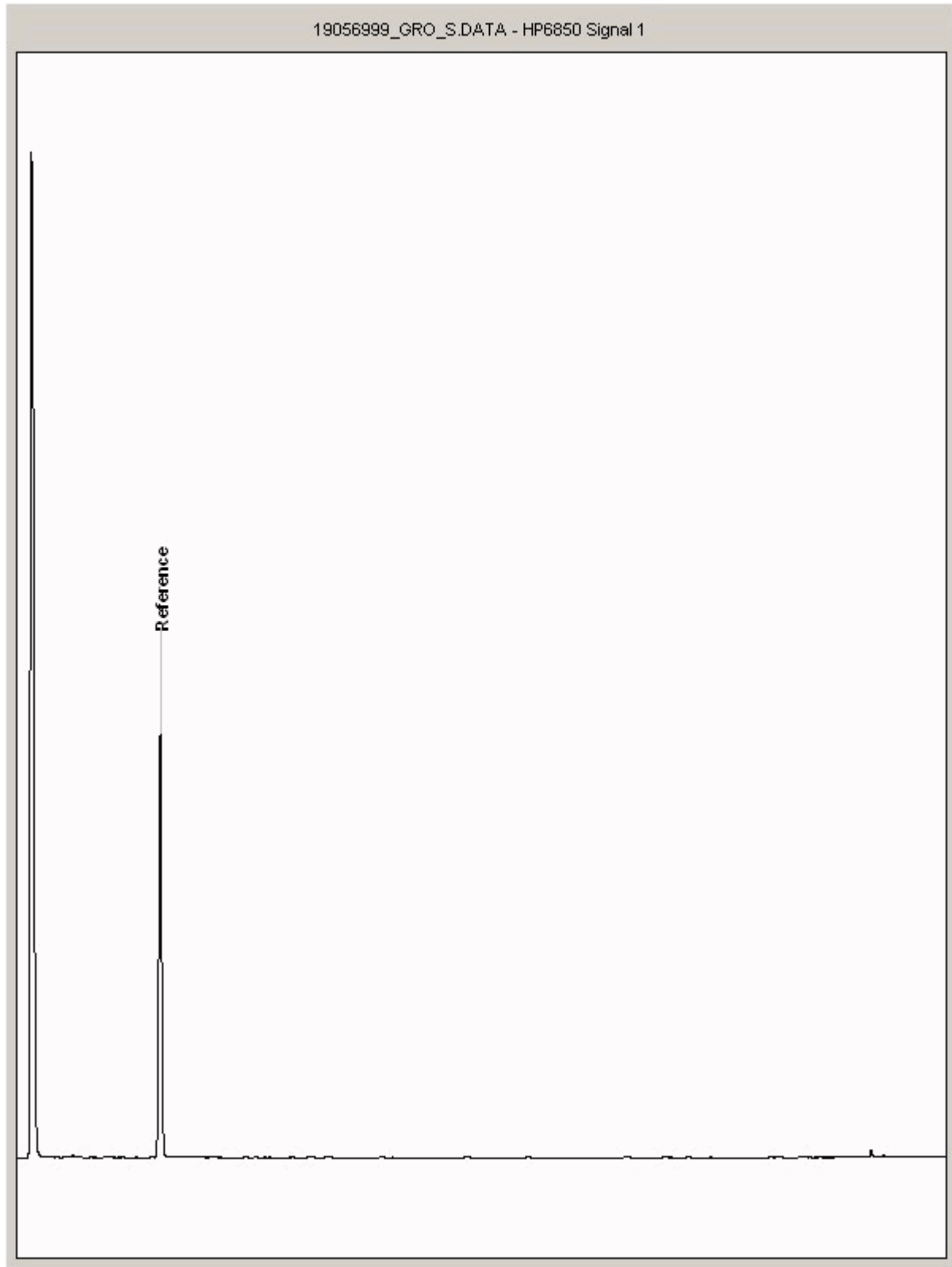
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19056999
Sample ID : BH202

Depth : 0.00 - 0.50





CERTIFICATE OF ANALYSIS

Validated

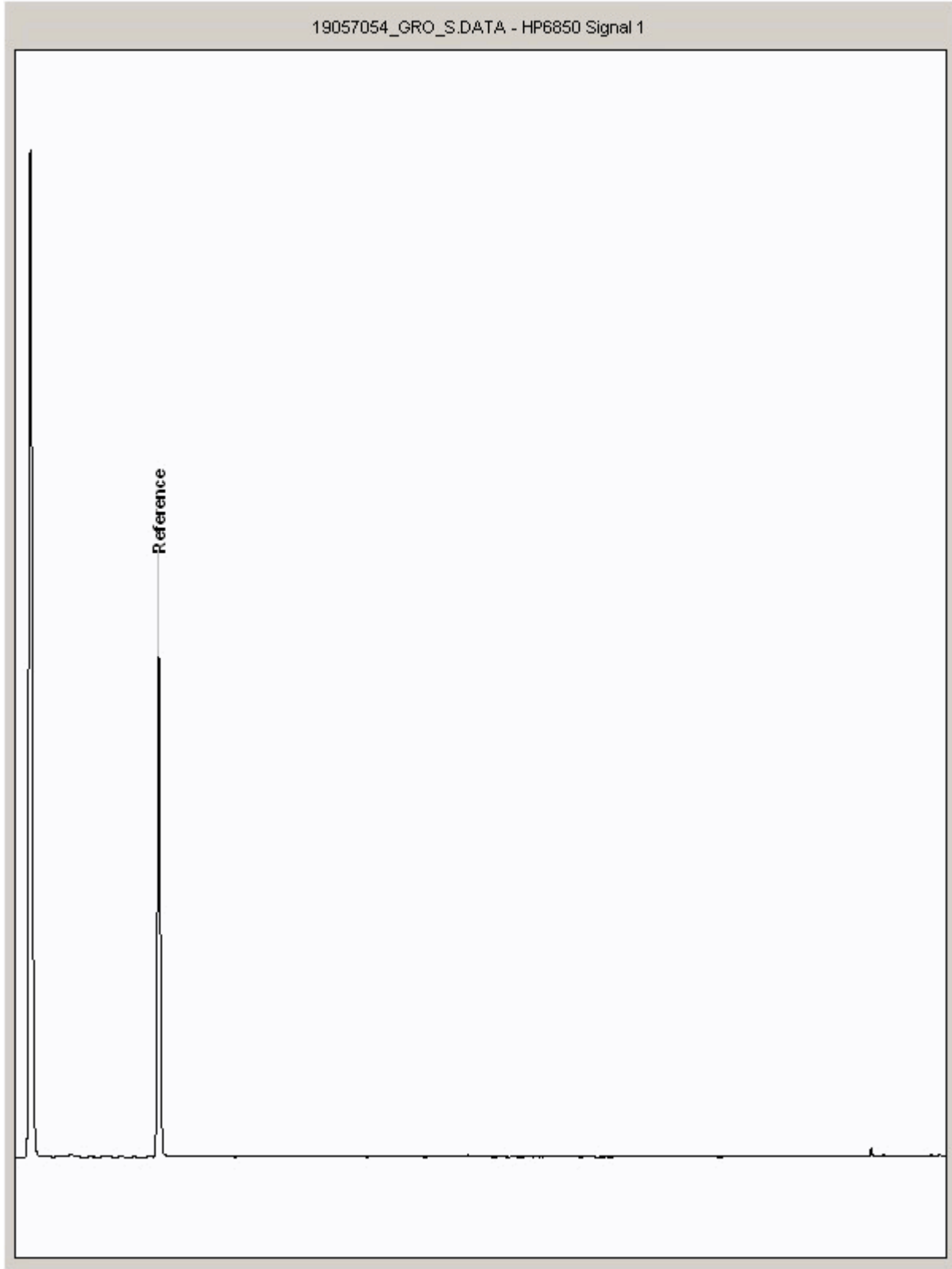
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19057054
Sample ID : BH202

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

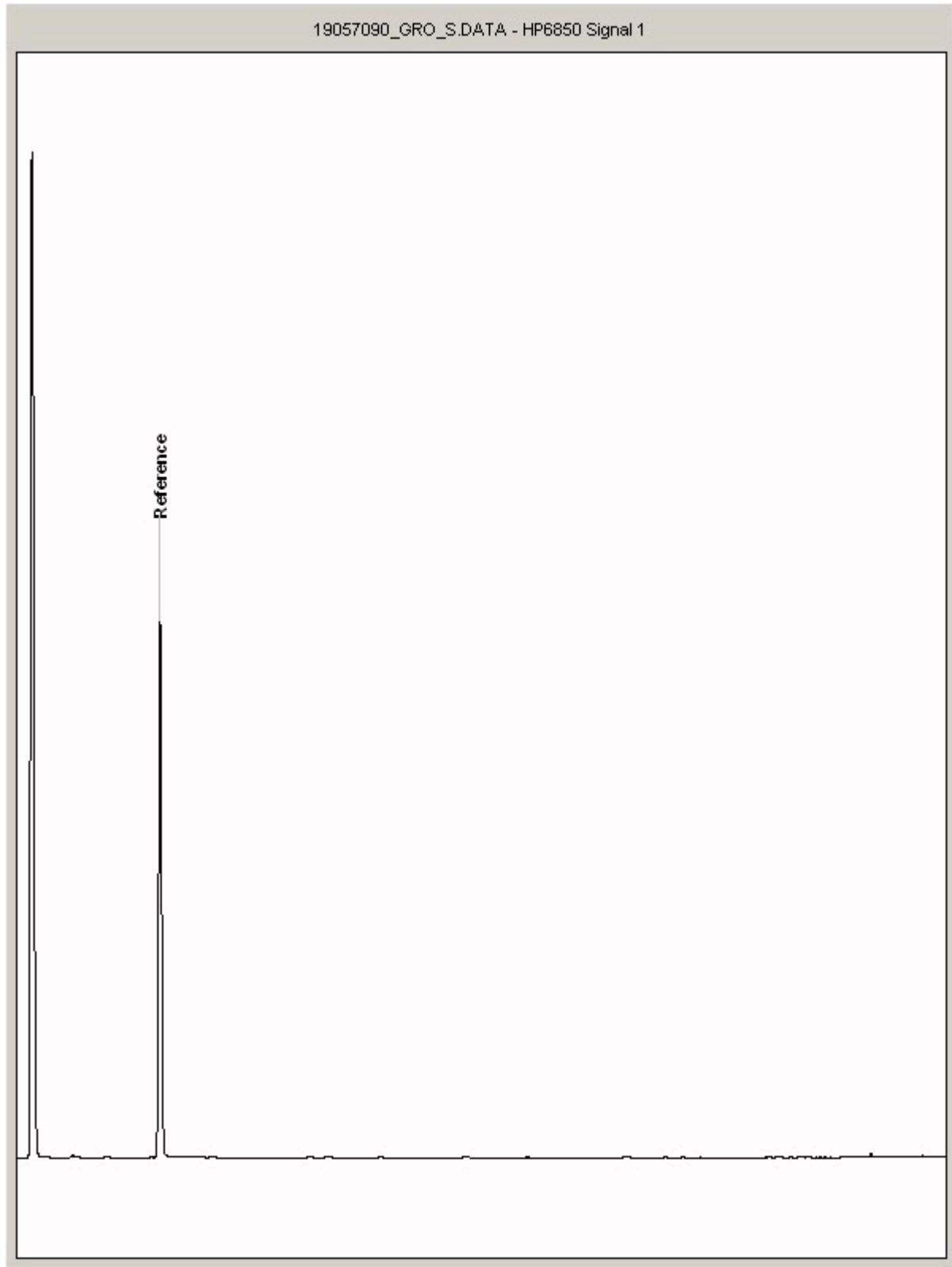
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19057090
Sample ID : BH202

Depth : 0.50 - 1.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

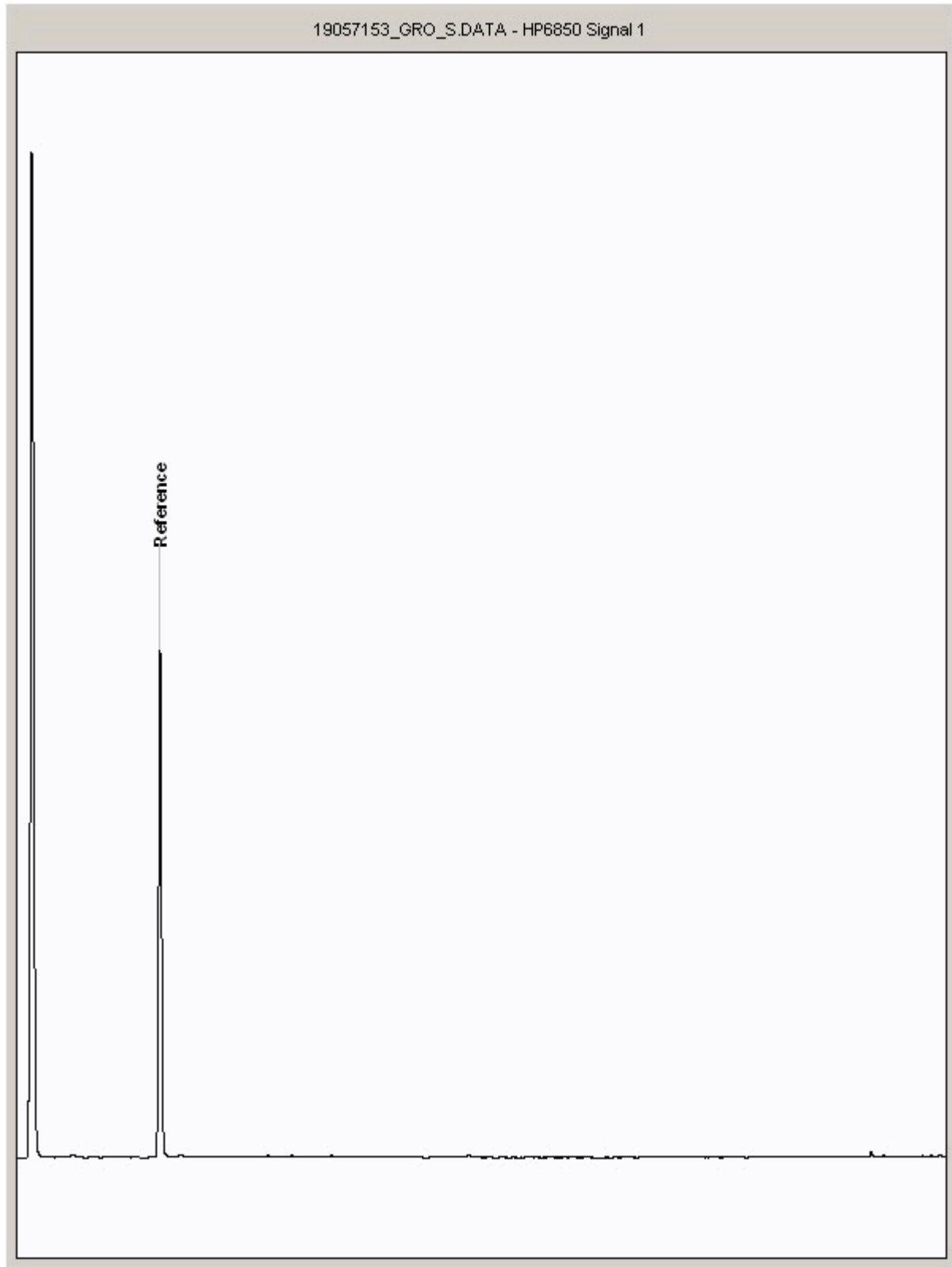
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19057153
Sample ID : BH202

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

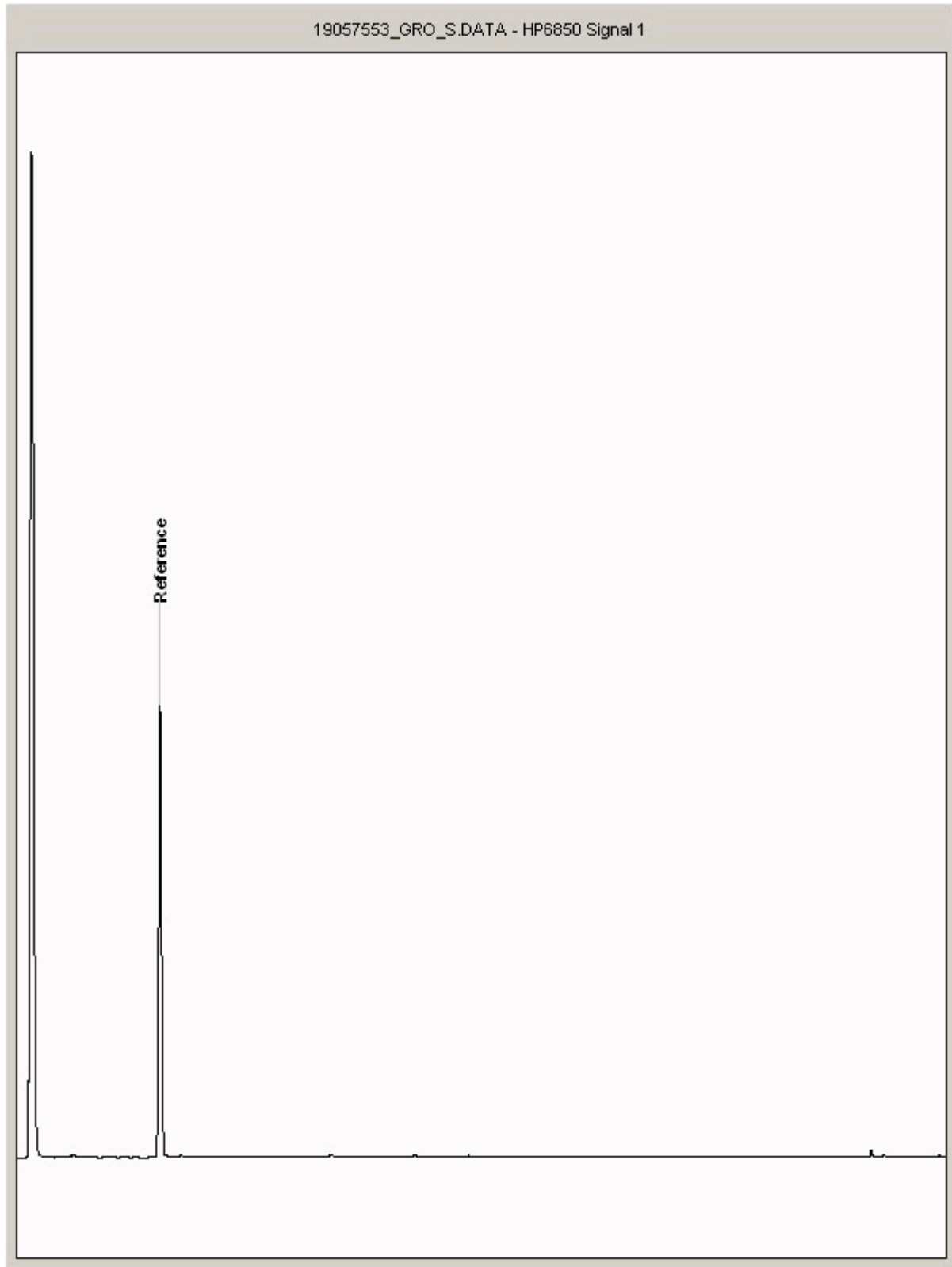
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19057553
Sample ID : BH201

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

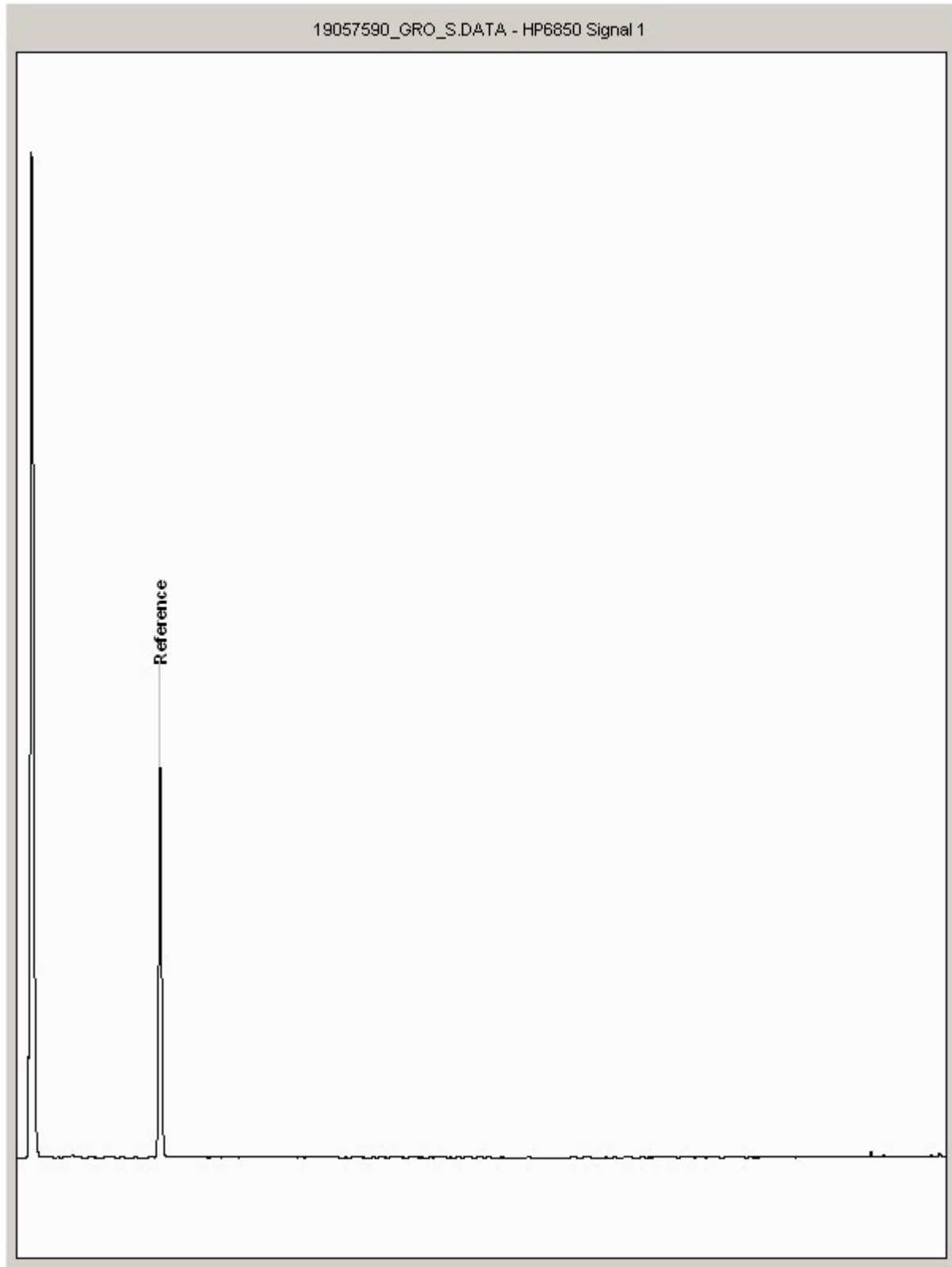
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19057590
Sample ID : BH201

Depth : 4.00 - 5.00





CERTIFICATE OF ANALYSIS

Validated

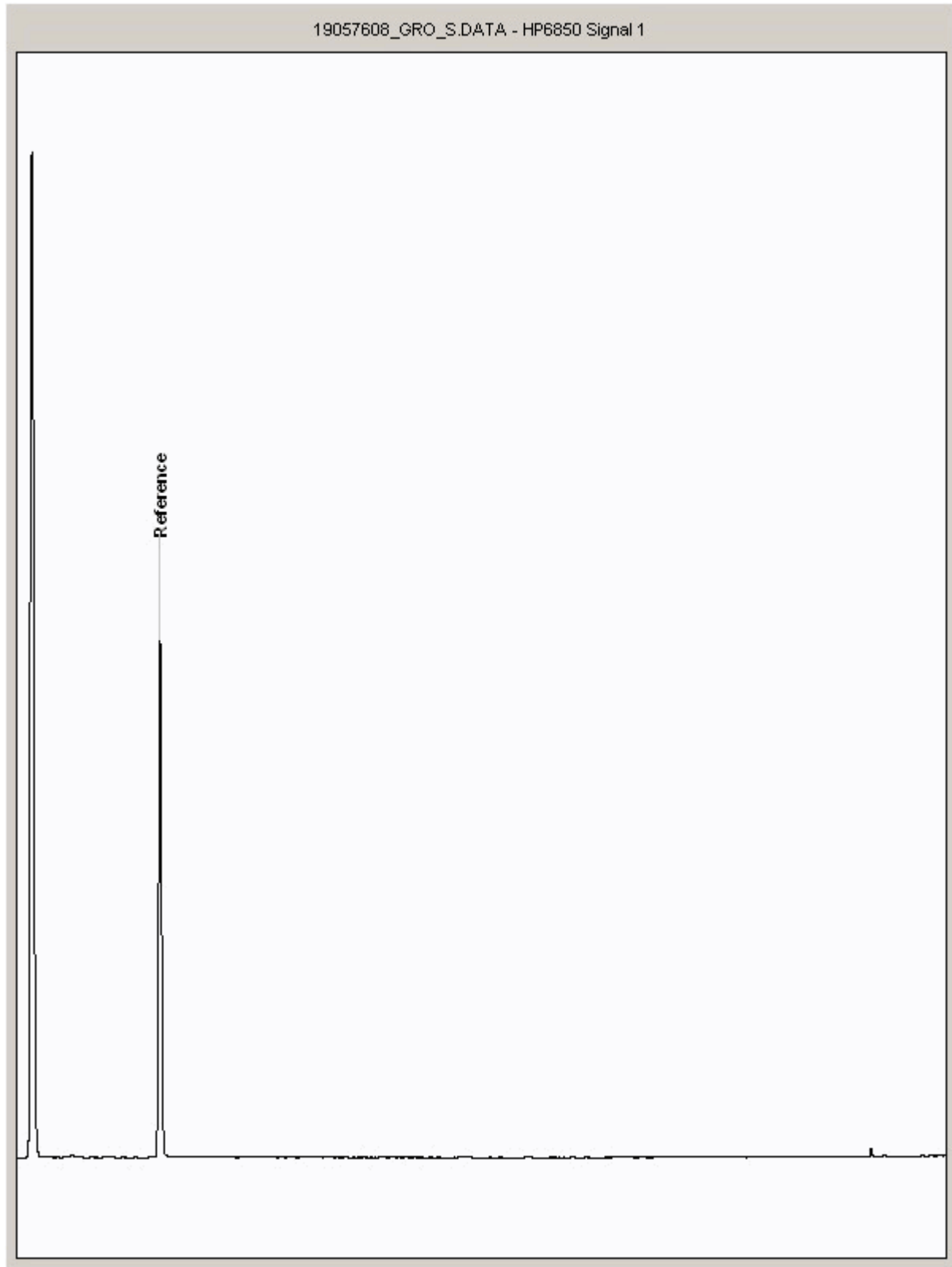
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19057608
Sample ID : BH201

Depth : 7.00 - 8.00





CERTIFICATE OF ANALYSIS

Validated

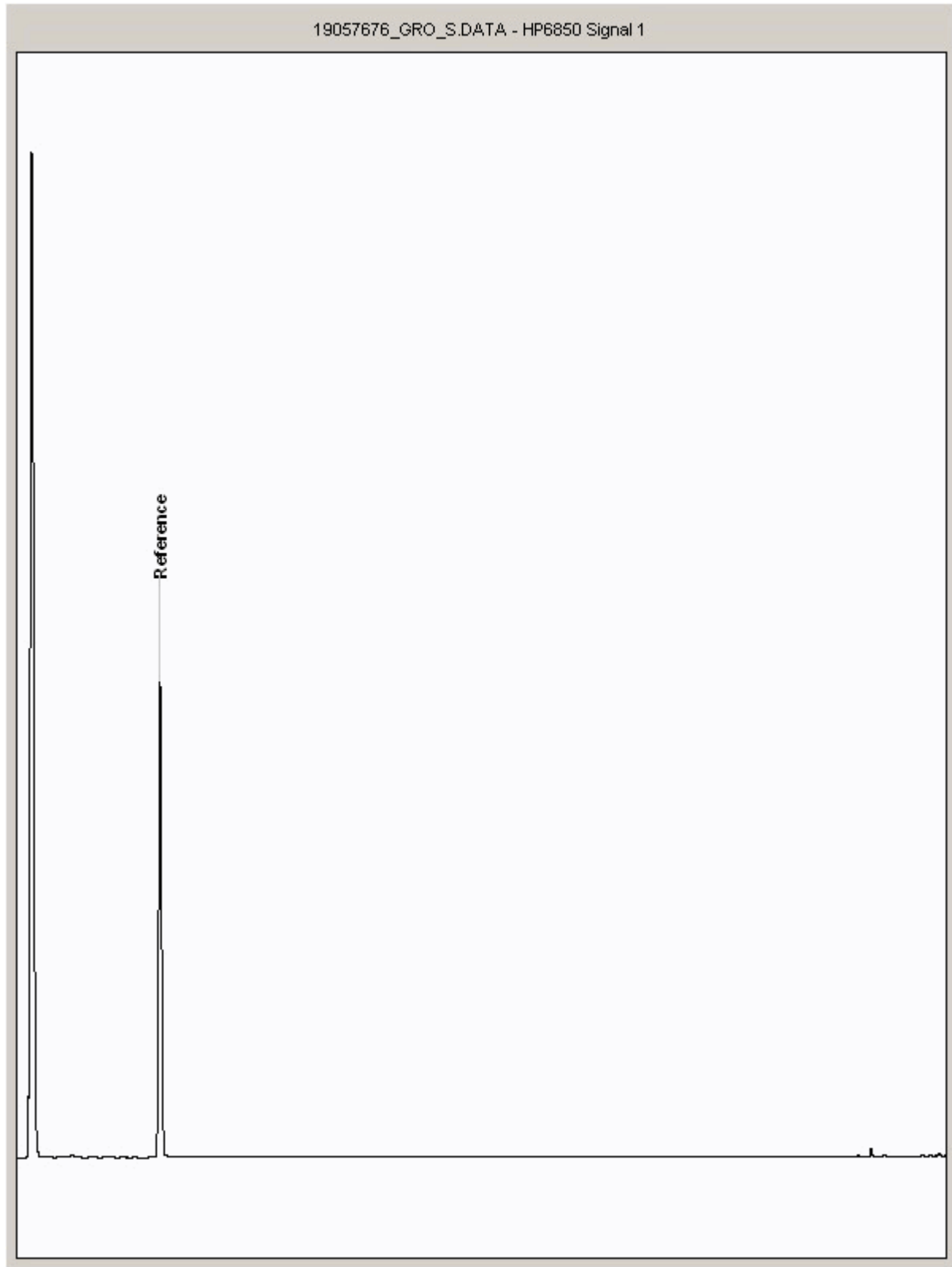
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19057676
Sample ID : BH201

Depth : 6.00 - 7.00





CERTIFICATE OF ANALYSIS

Validated

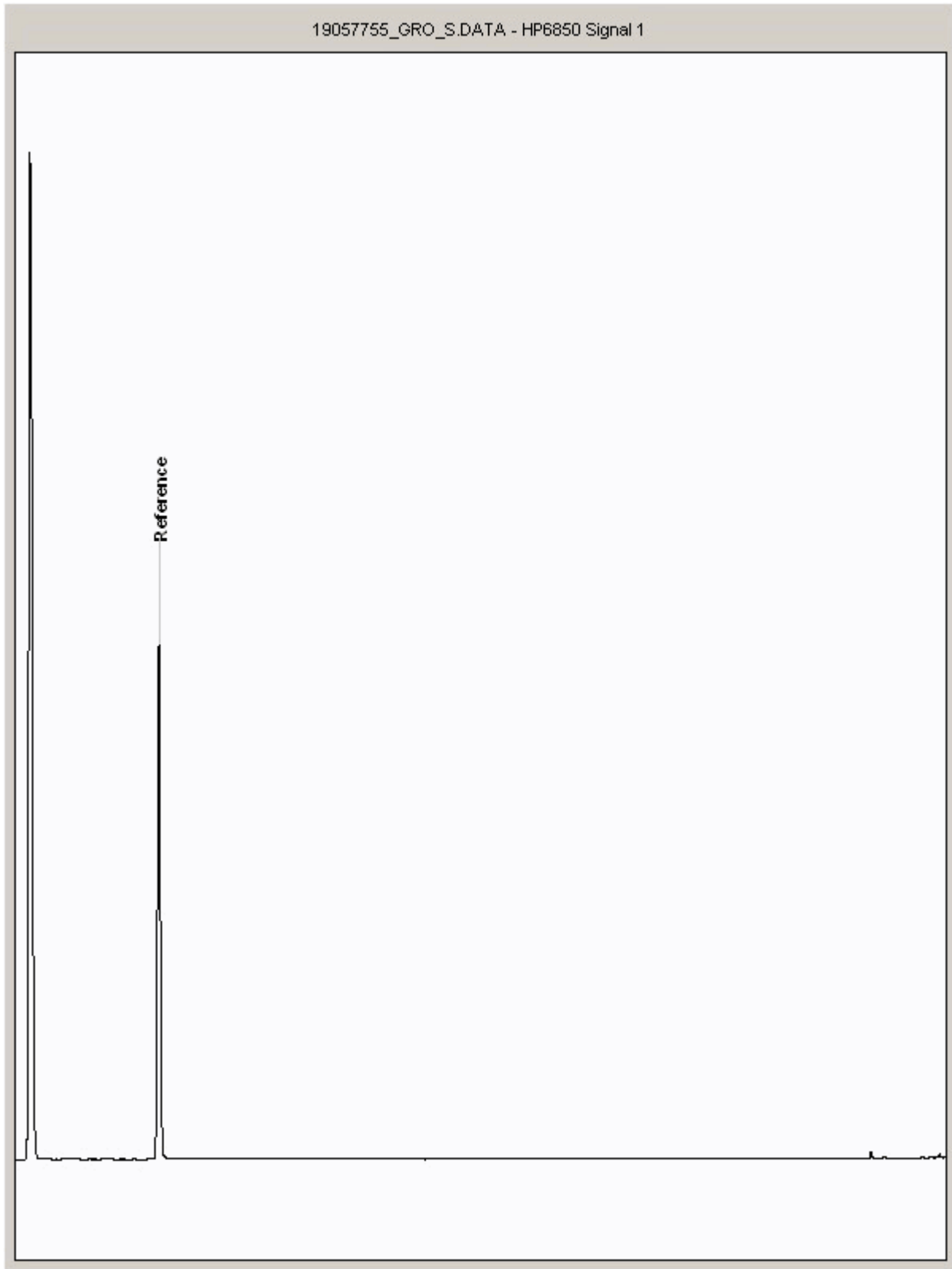
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19057755
Sample ID : BH201

Depth : 8.00 - 9.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

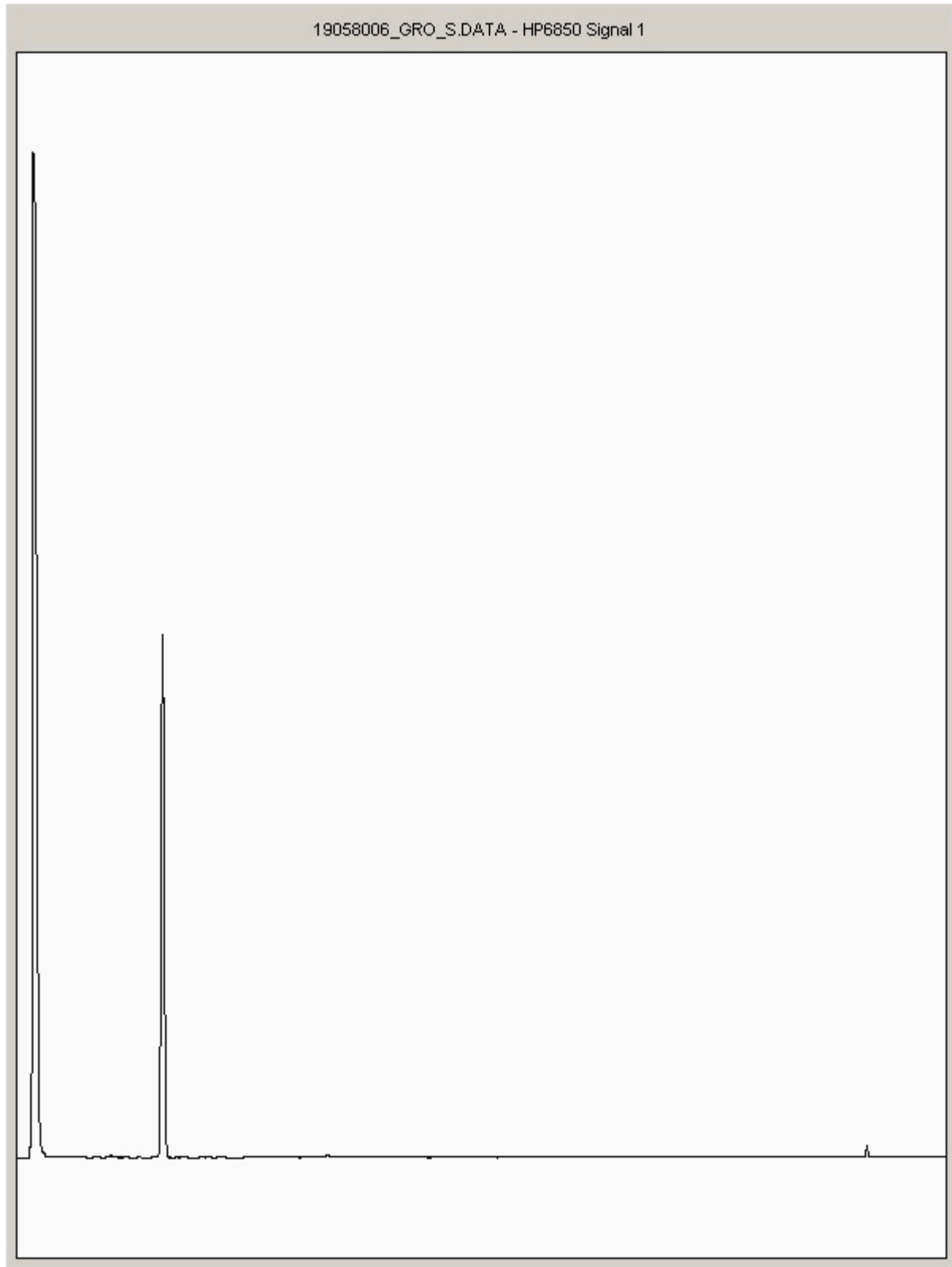
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19058006
Sample ID : BH203

Depth : 6.00 - 7.00





CERTIFICATE OF ANALYSIS

Validated

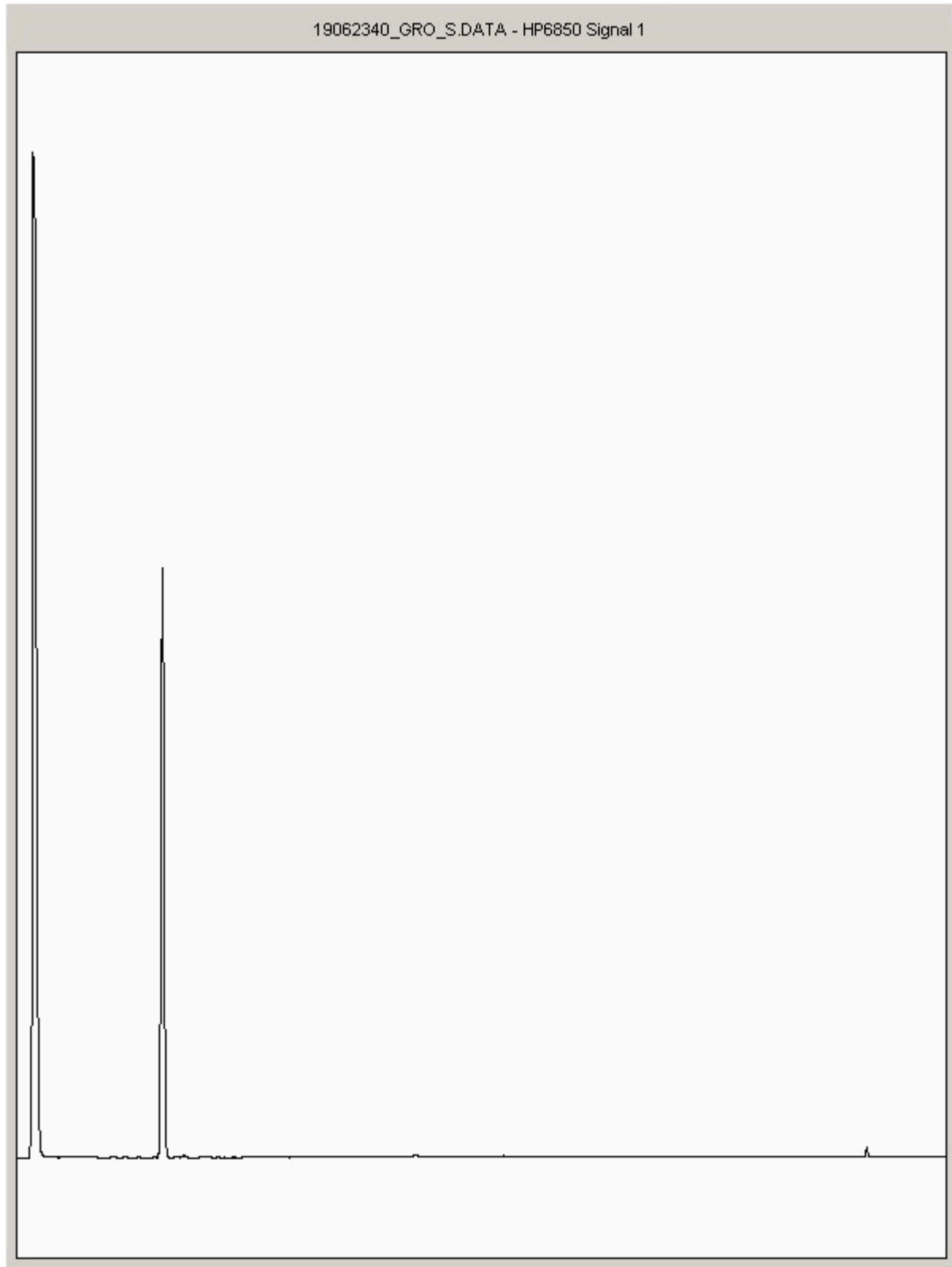
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19062340
Sample ID : BH203

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

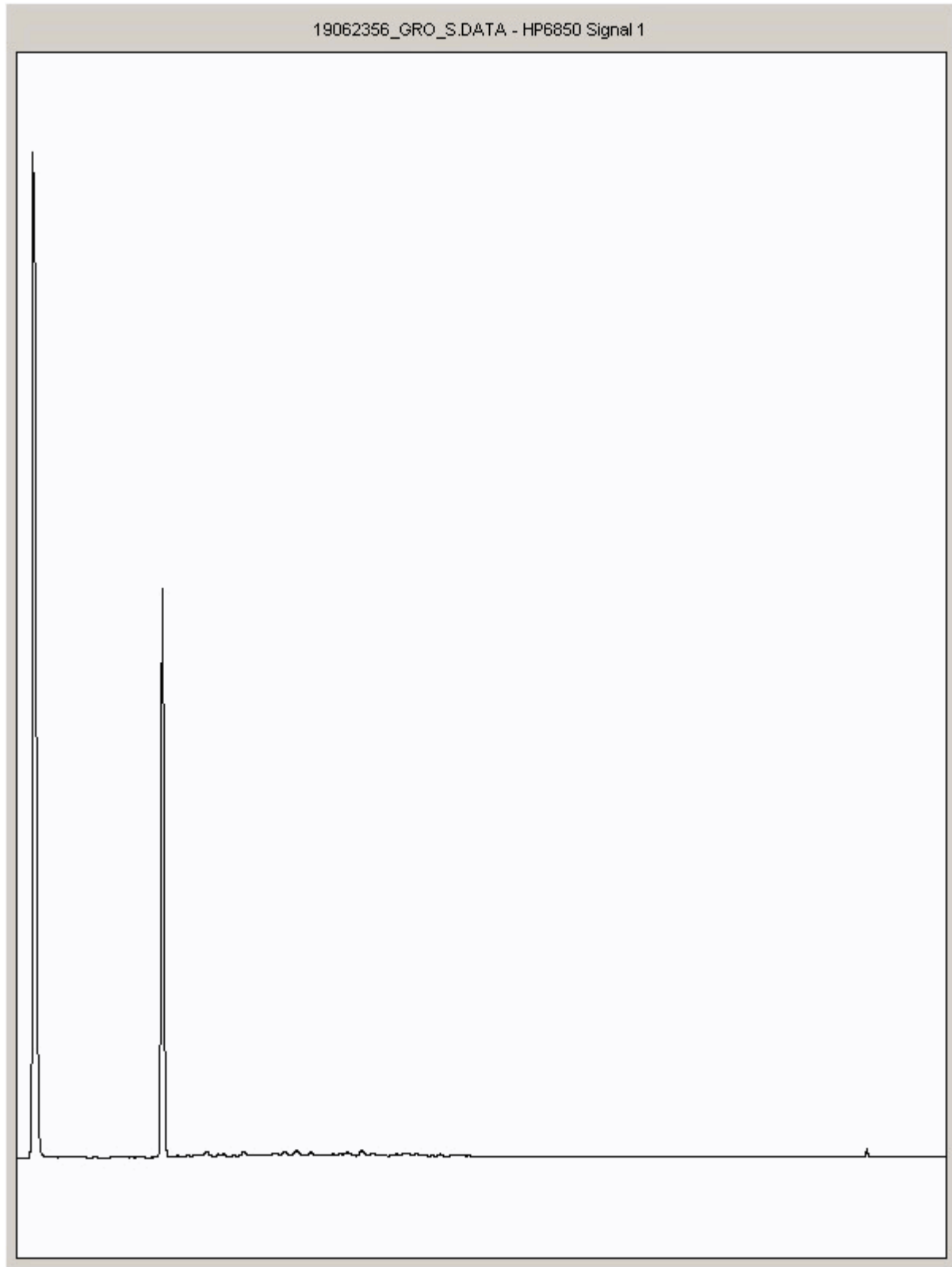
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19062356
Sample ID : BH205

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

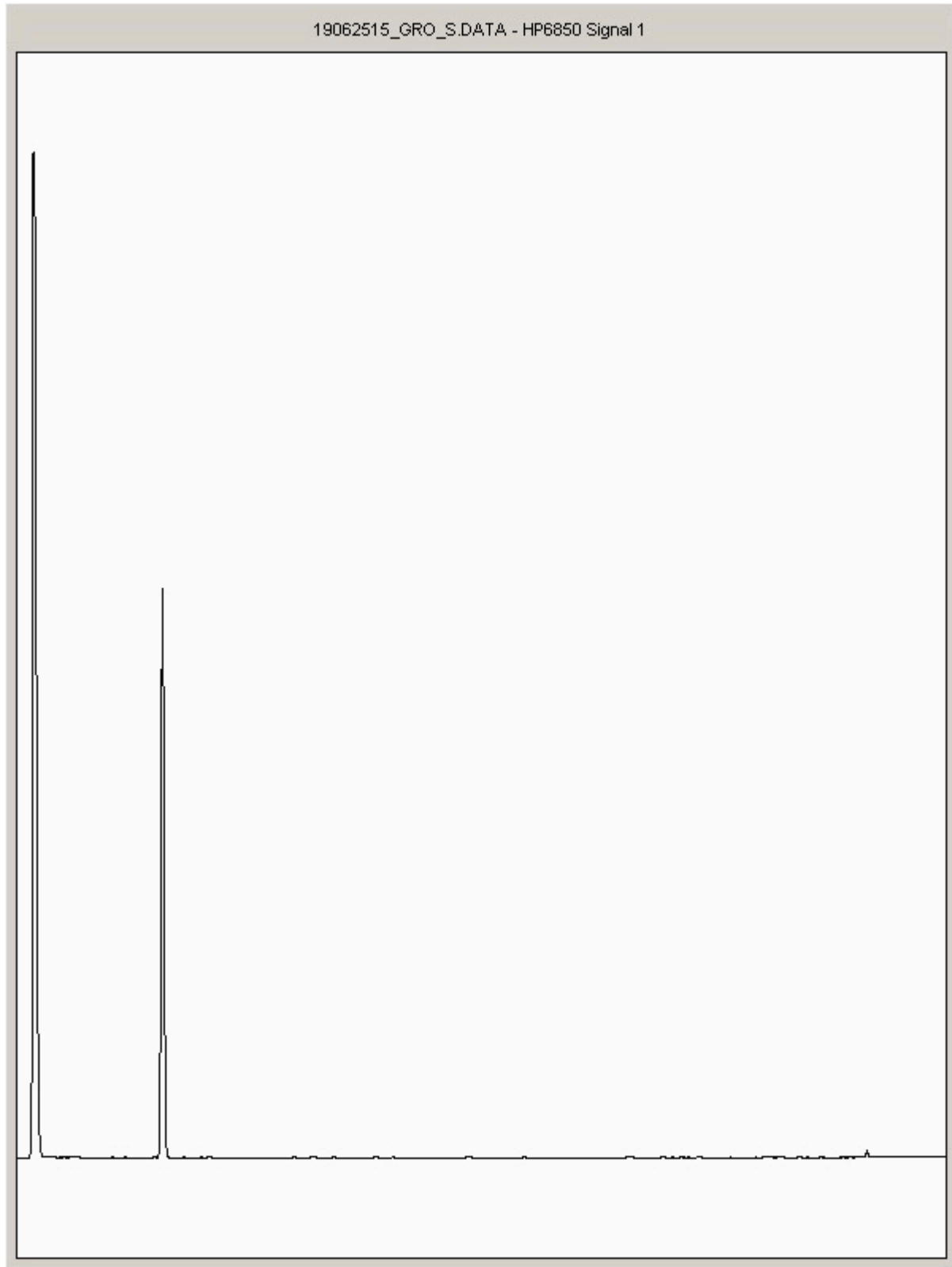
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19062515
Sample ID : BH201

Depth : 1.00 - 2.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181220-70
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

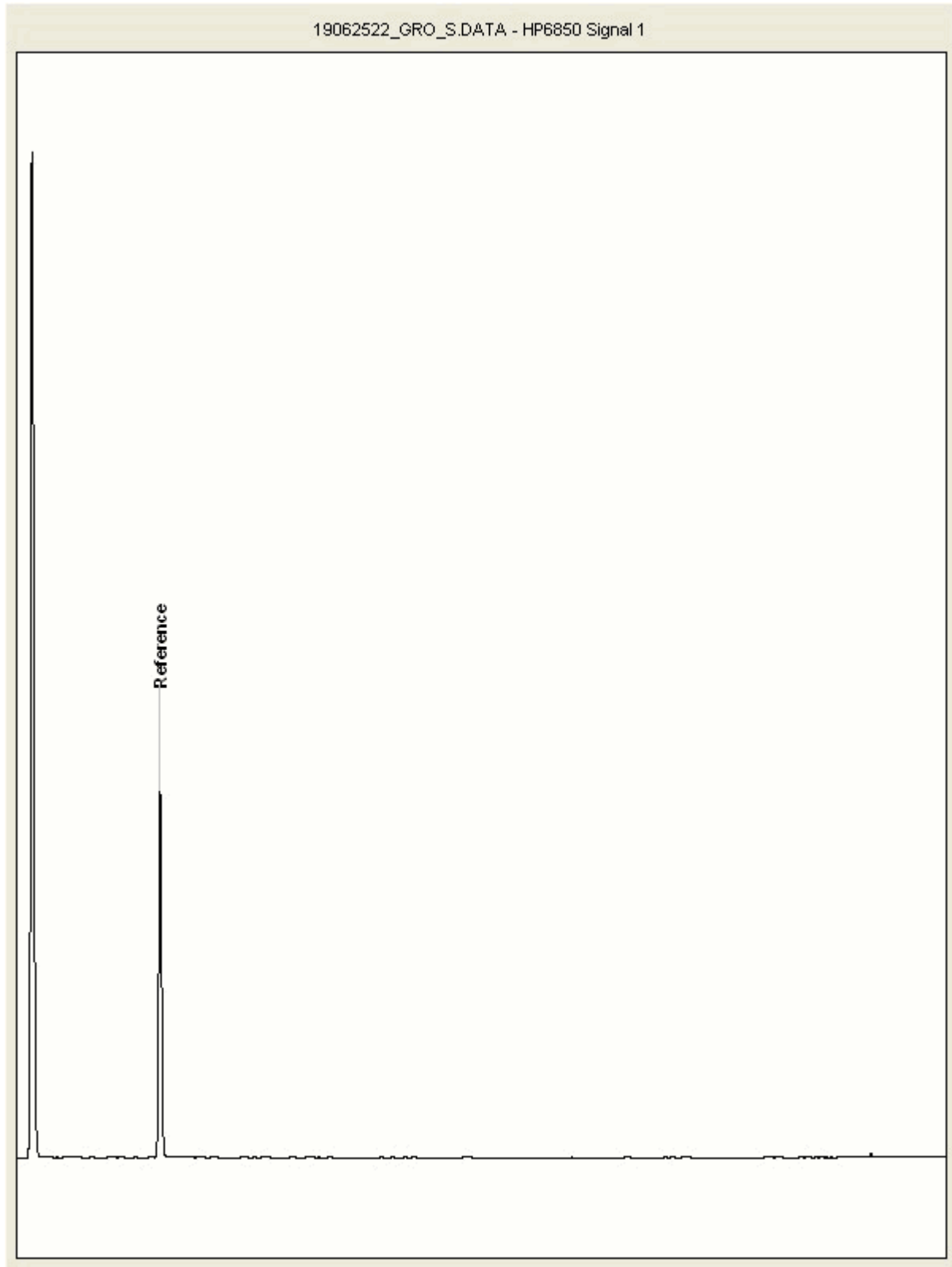
Report Number: 488549
Superseded Report: 488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19062522
Sample ID : BH202

Depth : 5.00 - 5.50





CERTIFICATE OF ANALYSIS

Validated

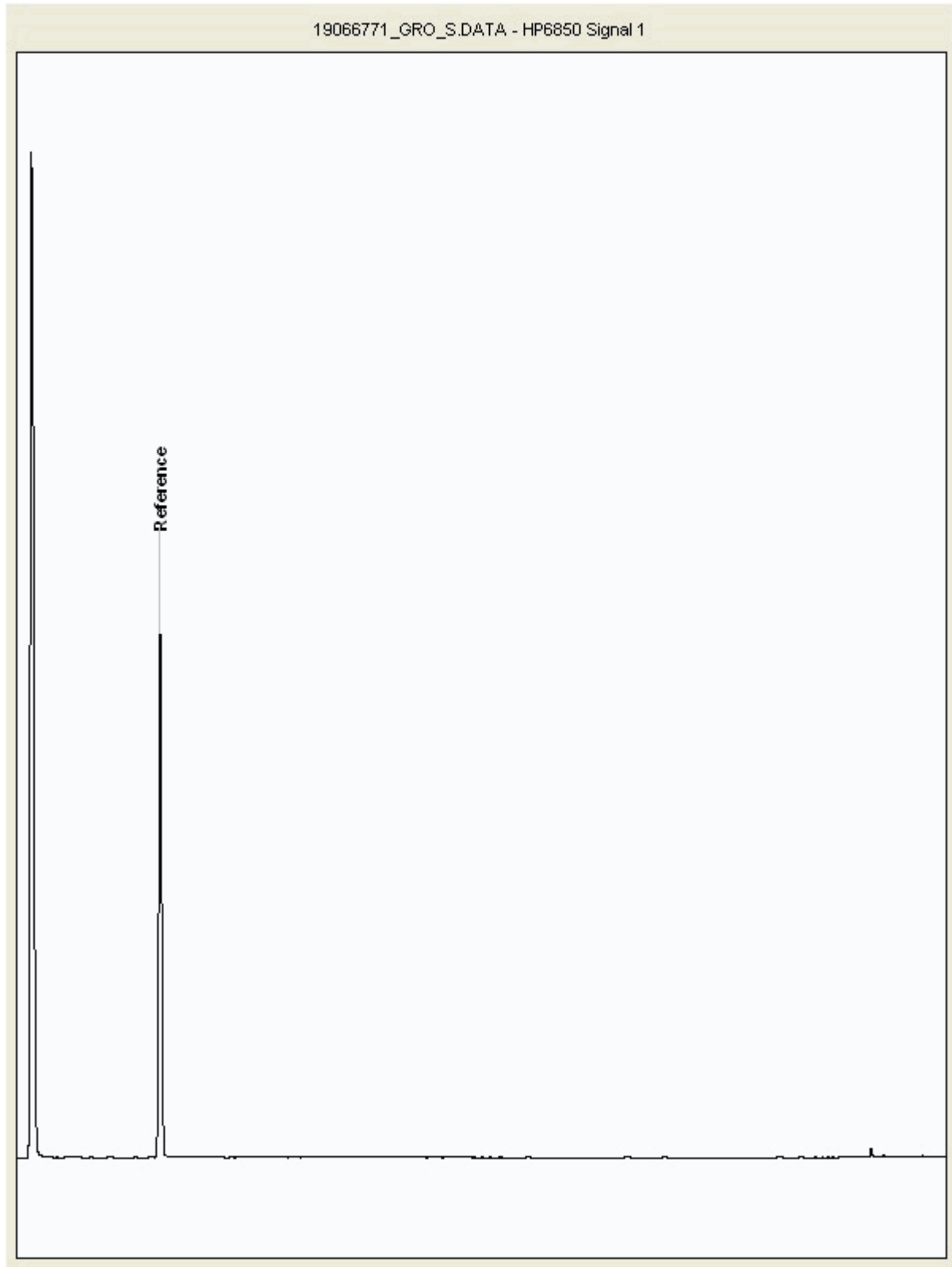
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19066771
Sample ID : BH205

Depth : 8.00 - 10.00





CERTIFICATE OF ANALYSIS

Validated

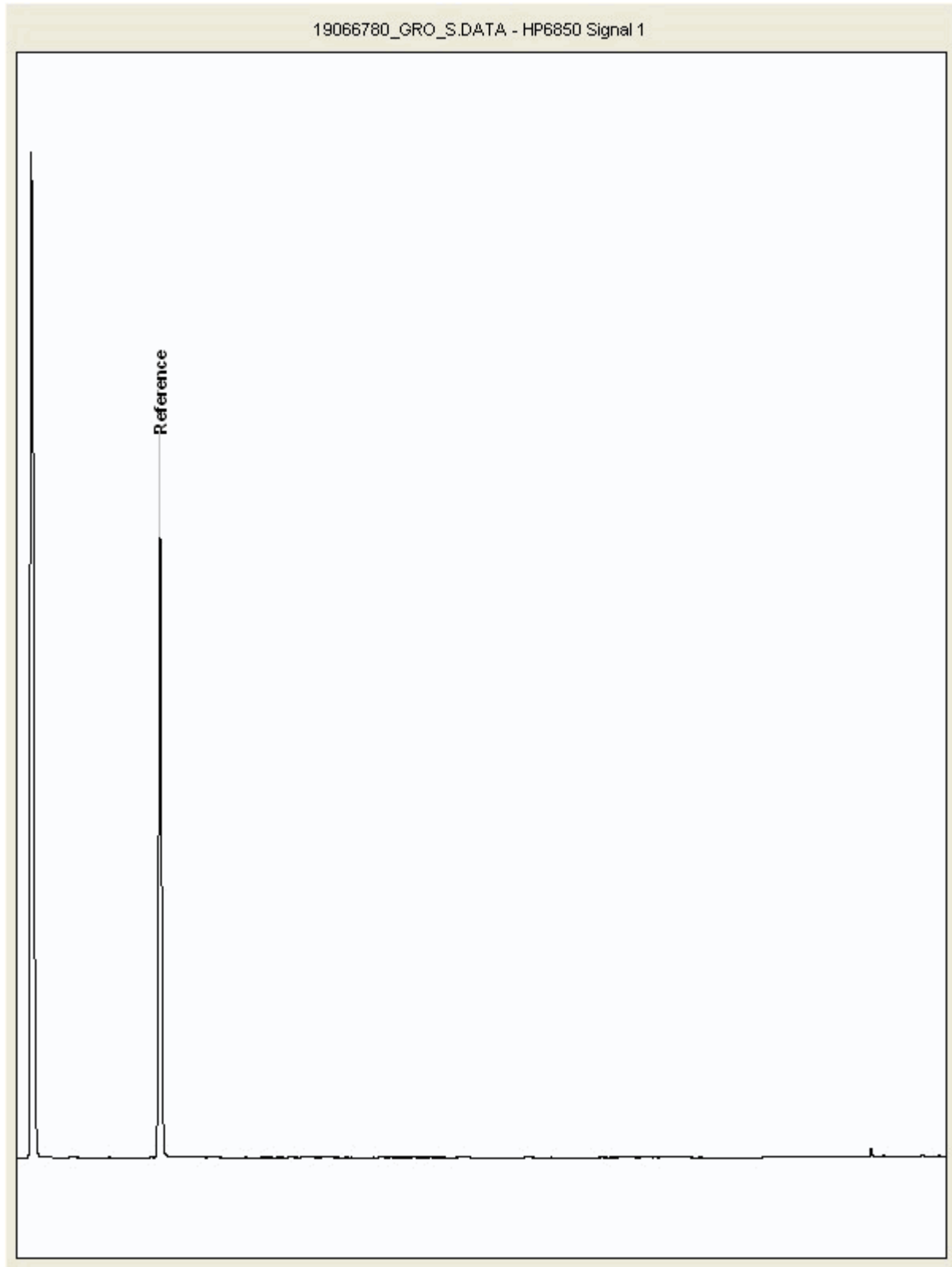
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19066780
Sample ID : BH203

Depth : 0.00 - 1.00





CERTIFICATE OF ANALYSIS

Validated

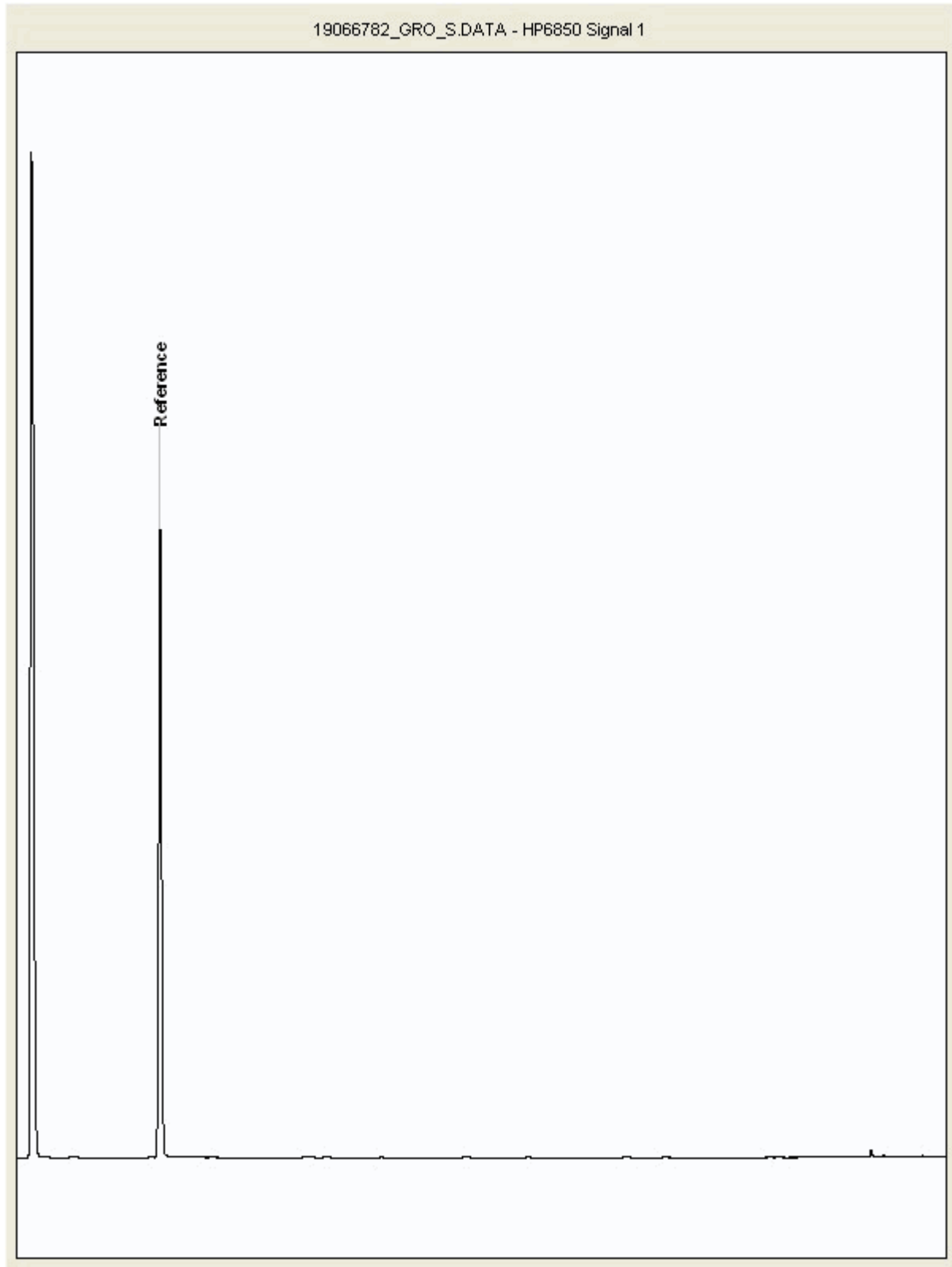
SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19066782
Sample ID : BH203

Depth : 1.00 - 2.00





CERTIFICATE OF ANALYSIS

SDG:	181220-70	Client Reference:	602387	Report Number:	488549
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	488301

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

General

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestostype	CommonName
Chrysotile	WhiteAsbestos
Amosite	BrownAsbestos
Coisidolite	BlueAsbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528700

Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: James Stretton

CERTIFICATE OF ANALYSIS

Date of report Generation: 19 January 2019
Customer: D_RSK_DUB
Sample Delivery Group (SDG): 181219-89
Your Reference: 602387
Location: City Block 9
Report No: 489223

We received 40 samples on Monday December 17, 2018 and 32 of these samples were scheduled for analysis which was completed on Saturday January 19, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19002304	BH201		10.00 - 11.00	11/12/2018
19002305	BH201		13.00 - 14.00	11/12/2018
19002307	BH201		14.00 - 15.00	11/12/2018
19002308	BH201		15.00 - 16.00	11/12/2018
19002309	BH201		16.00 - 17.00	11/12/2018
19002303	BH201		9.00 - 10.00	11/12/2018
19002301	BH202		11.50 - 13.00	12/12/2018
19002298	BH202		13.00 - 14.00	12/12/2018
19002299	BH202		14.00 - 15.00	12/12/2018
19002300	BH202		15.00 - 17.00	12/12/2018
19002312	BH203		10.00 - 12.00	12/12/2018
19002313	BH203		13.00 - 14.00	12/12/2018
19002314	BH203		14.00 - 15.00	12/12/2018
19002315	BH203		15.00 - 16.00	12/12/2018
19002316	BH203		16.00 - 17.00	12/12/2018
19002310	BH203		5.00 - 6.00	12/12/2018
19002319	BH204		0.00 - 0.50	12/12/2018
19002320	BH204		0.50 - 1.00	12/12/2018
19002322	BH204		1.00 - 2.00	12/12/2018
19002329	BH204		11.00 - 12.50	12/12/2018
19002330	BH204		13.00 - 14.00	12/12/2018
19002317	BH204		14.00 - 15.00	12/12/2018
19002318	BH204		16.00 - 17.00	12/12/2018
19002324	BH204		2.00 - 3.00	12/12/2018
19002325	BH204		3.00 - 4.00	12/12/2018
19002326	BH204		4.00 - 5.00	12/12/2018
19002327	BH204		5.80 - 7.00	12/12/2018
19002328	BH204		8.00 - 10.00	12/12/2018
19002291	BH205		10.00 - 12.00	14/12/2018
19002292	BH205		13.00 - 14.00	14/12/2018
19002294	BH205		14.00 - 16.00	14/12/2018
19002296	BH205		5.50 - 7.00	14/12/2018
19002295	BH205		7.00 - 8.00	14/12/2018
19002289	BH205		8.00 - 10.00	14/12/2018
19002332	BH210		10.00 - 11.00	12/12/2018
19002333	BH210		11.00 - 12.00	14/12/2018
19002335	BH210		12.00 - 13.00	14/12/2018
19002336	BH210		13.00 - 15.00	14/12/2018
19002337	BH210		15.00 - 16.00	14/12/2018
19002331	BH210		16.00 - 17.00	14/12/2018

Maximum Sample/Coolbox Temperature (°C) :

6.2

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container		Sample Type
					60g VOC (ALE215)	1kg TUB	
	19002305	BH201		13.00 - 14.00	60g VOC (ALE215)	1kg TUB	S
	19002307	BH201		14.00 - 15.00	60g VOC (ALE215)	1kg TUB	S
	19002308	BH201		15.00 - 16.00	60g VOC (ALE215)	1kg TUB	S
	19002309	BH201		16.00 - 17.00	60g VOC (ALE215)	1kg TUB	S
	19002301	BH202		11.50 - 13.00	60g VOC (ALE215)	1kg TUB	S
	19002298	BH202		13.00 - 14.00	60g VOC (ALE215)	1kg TUB	S
	19002299	BH202		14.00 - 15.00	60g VOC (ALE215)	1kg TUB	S
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 32			X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 32			X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 32			X	X	X
CEN Readings	All	NDPs: 0 Tests: 32			X	X	X
Coronene	All	NDPs: 0 Tests: 32			X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 32			X	X	X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 32			X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 32			X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 32			X	X	X
Fluoride	All	NDPs: 0 Tests: 32			X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 32			X	X	X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 32			X	X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 32			X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 32			X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 32			X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	19002322	19002329	19002330	19002317	19002318	19002324	19002325
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 32					X		X		X		X
Anions by Kone (w)	All	NDPs: 0 Tests: 32						X		X		X	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 32						X		X		X	
CEN Readings	All	NDPs: 0 Tests: 32						X		X		X	
Coronene	All	NDPs: 0 Tests: 32					X		X		X		X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 32						X		X		X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 32						X		X		X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 32					X		X		X		X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 32					X		X		X		X
Fluoride	All	NDPs: 0 Tests: 32						X		X		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 32						X		X		X	
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 32					X		X		X		X
Loss on Ignition in soils	All	NDPs: 0 Tests: 32					X		X		X		X
Mercury Dissolved	All	NDPs: 0 Tests: 32						X		X		X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 32					X		X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG:	181219-89	Client Reference:	602387	Report Number:	489223
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container		Sample Type
					250g Amber Jar (ALE215)	60g VOC (ALE215)	
	19002322	BH204		1.00 - 2.00	250g Amber Jar (ALE215)	60g VOC (ALE215)	S
	19002329	BH204		11.00 - 12.50	250g Amber Jar (ALE215)	60g VOC (ALE215)	S
	19002330	BH204		13.00 - 14.00	250g Amber Jar (ALE215)	60g VOC (ALE215)	S
	19002317	BH204		14.00 - 15.00	250g Amber Jar (ALE215)	60g VOC (ALE215)	S
	19002318	BH204		16.00 - 17.00	250g Amber Jar (ALE215)	60g VOC (ALE215)	S
	19002324	BH204		2.00 - 3.00	250g Amber Jar (ALE215)	60g VOC (ALE215)	S
	19002325	BH204		3.00 - 4.00	250g Amber Jar (ALE215)	60g VOC (ALE215)	S
Mineral Oil	All	NDPs: 0 Tests: 32			X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 32			X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 32			X	X	X
PCBs by GCMS	All	NDPs: 0 Tests: 32			X	X	X
pH	All	NDPs: 0 Tests: 32			X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 32			X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 32			X	X	X
Sample description	All	NDPs: 0 Tests: 31			X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 32			X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 32			X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 32			X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 32			X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 **Client Reference:** 602387 **Report Number:** 489223
Location: City Block 9 **Order Number:** P2021550 **Superseded Report:**

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">X Test</div> <div style="display: flex; align-items: center;">N No Determination Possible</div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type					
		19002332	BH210		10.00 - 11.00	60g VOC (ALE215) 1kg TUB	S				
		19002333	BH210		11.00 - 12.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S				
		19002335	BH210		12.00 - 13.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S				
		19002336	BH210		13.00 - 15.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S				
		19002337	BH210		15.00 - 16.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S				
		19002331	BH210		16.00 - 17.00	60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S				
Mineral Oil	All	NDPs: 0 Tests: 32					X	X	X	X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 32					X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 32					X	X	X	X	X
PCBs by GCMS	All	NDPs: 0 Tests: 32					X	X	X	X	X
pH	All	NDPs: 0 Tests: 32					X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 32					X	X	X	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 32					X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 31					X	X	X	X	X
Total Dissolved Solids	All	NDPs: 0 Tests: 32					X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 32					X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 32					X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 32					X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
19002305	BH201	13.00 - 14.00	Dark Brown	Loamy Sand	Stones	Vegetation
19002307	BH201	14.00 - 15.00	Dark Brown	Loamy Sand	None	None
19002308	BH201	15.00 - 16.00	Dark Brown	Sandy Loam	Vegetation	Stones
19002309	BH201	16.00 - 17.00	Dark Brown	Sandy Loam	Vegetation	Stones
19002298	BH202	13.00 - 14.00	Light Brown	Sandy Loam	Stones	None
19002299	BH202	14.00 - 15.00	Light Brown	Sandy Loam	Stones	None
19002300	BH202	15.00 - 17.00	Dark Brown	Sandy Clay	None	None
19002301	BH202	11.50 - 13.00	Dark Brown	Sand	Stones	None
19002312	BH203	10.00 - 12.00	Dark Brown	Sand	Stones	Vegetation
19002313	BH203	13.00 - 14.00	Black	Sandy Loam	Stones	Vegetation
19002314	BH203	14.00 - 15.00	Dark Brown	Sandy Loam	Stones	Vegetation
19002315	BH203	15.00 - 16.00	Dark Brown	Loamy Sand	Stones	Vegetation
19002317	BH204	14.00 - 15.00	Dark Brown	Silty Clay Loam	Stones	Vegetation
19002318	BH204	16.00 - 17.00	Dark Brown	Loamy Sand	Stones	None
19002319	BH204	0.00 - 0.50	Light Brown	Sandy Loam	Stones	None
19002322	BH204	1.00 - 2.00	Light Brown	Sandy Loam	Stones	None
19002324	BH204	2.00 - 3.00	Dark Brown	Sandy Loam	Vegetation	Stones
19002325	BH204	3.00 - 4.00	Dark Brown	Sandy Loam	Vegetation	Stones
19002326	BH204	4.00 - 5.00	Dark Brown	Silty Clay Loam	Vegetation	None
19002327	BH204	5.80 - 7.00	Dark Brown	Sandy Loam	Stones	None
19002328	BH204	8.00 - 10.00	Dark Brown	Sandy Loam	Stones	None
19002329	BH204	11.00 - 12.50	Dark Brown	Sand	Stones	None
19002330	BH204	13.00 - 14.00	Dark Brown	Loamy Sand	Stones	Vegetation
19002291	BH205	10.00 - 12.00	Dark Brown	Sand	Vegetation	Stones
19002292	BH205	13.00 - 14.00	Dark Brown	Silt Loam	Stones	Vegetation
19002294	BH205	14.00 - 16.00	Dark Brown	Silt Loam	Stones	Vegetation
19002331	BH210	16.00 - 17.00	Dark Brown	Sandy Loam	Stones	Vegetation
19002332	BH210	10.00 - 11.00	Dark Brown	Sandy Loam	Stones	None
19002333	BH210	11.00 - 12.00	Light Brown	Sandy Loam	None	None
19002335	BH210	12.00 - 13.00	Dark Brown	Loamy Sand	Stones	None
19002336	BH210	13.00 - 15.00	Dark Brown	Loamy Sand	Stones	Brick
19002337	BH210	15.00 - 16.00	Black	Loamy Sand	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Results Legend		Customer Sample Ref.	BH201	BH201	BH201	BH201	BH202	BH202
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	11.50 - 13.00	13.00 - 14.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		11/12/2018	11/12/2018	11/12/2018	11/12/2018	12/12/2018	12/12/2018
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Moisture Content Ratio (% of as received sample)	%	PM024	9.4	10	7.7	9.4	16	9.7
Loss on ignition	<0.7 %	TM018	1.98	2.39	1.62	2.29	1.1	2.82
Mineral Oil Surrogate % recovery**	%	TM061	71.9	71.3	68.7	76.3	84	81.7
Mineral oil >C10-C40	<1 mg/kg	TM061	125	26.7	76	157	<1	14.4
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.706	0.816	0.78	0.66	0.325	0.672
pH	1 pH Units	TM133	8.18	8.41	8.26	8.31	9.08	8.57
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	10.6	15	9.51	10.8	6.17	5.01
Cadmium	<0.02 mg/kg	TM181	1.55	1.5	1.56	1.65	1.1	0.995
Chromium	<0.9 mg/kg	TM181	8	5.24	7.43	6.74	5.23	4.8
Copper	<1.4 mg/kg	TM181	28.7	22.3	21.4	20.3	12.8	12
Lead	<0.7 mg/kg	TM181	14.9	16	12.9	10.9	7.78	7.47
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	36.4	37.7	31.4	31.2	23.2	17.4
Selenium	<1 mg/kg	TM181	3.32	3.42	2.88	2.68	1.34	1.88
Zinc	<1.9 mg/kg	TM181	78.1	77.1	71.5	65.6	58.5	37.8
ANC @ pH 4	<0.03 mol/kg	TM182	1.84	1.5	1.38	1.42	0.253	0.468
ANC @ pH 6	<0.03 mol/kg	TM182	0.168	0.174	0.14	0.166	0.114	0.181



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Results Legend		Customer Sample Ref.	BH202	BH202	BH203	BH203	BH203	BH203	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	14.00 - 15.00	15.00 - 17.00	10.00 - 12.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
-	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
Moisture Content Ratio (% of as received sample)	%	PM024	11	11	6.2	12	11	7.2	
Loss on ignition	<0.7 %	TM018	0.886	2.21	<0.7	1.21	1.55	1.51	
Mineral Oil Surrogate % recovery**	%	TM061	84.7	86	83.6	83.3	78.9	82.6	
Mineral oil >C10-C40	<1 mg/kg	TM061	<1	<1	7.46	3.31	8.81	30.6	
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	
Organic Carbon, Total	<0.2 %	TM132	0.489	0.535	0.343	1.2	0.586	0.783	
pH	1 pH Units	TM133	8.61	8.42	9.36	8.52	8.65	8.45	
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3	
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21	
Arsenic	<0.6 mg/kg	TM181	10.4	8.66	11	8.77	8.26	8.63	
Cadmium	<0.02 mg/kg	TM181	1.85	1.57	0.741	1.31	2.21	1.37	
Chromium	<0.9 mg/kg	TM181	1.99	5.26	3.44	6.53	6.51	6.65	
Copper	<1.4 mg/kg	TM181	20.1	25.9	6.45	20.7	26.3	22.3	
Lead	<0.7 mg/kg	TM181	18.4	12.1	3.58	12.5	14.8	12.1	
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	
Nickel	<0.2 mg/kg	TM181	29.6	30.1	12.1	28.6	29.3	34.2	
Selenium	<1 mg/kg	TM181	1.94	2.46	<1	2.95	2.67	3.33	
Zinc	<1.9 mg/kg	TM181	76.7	66	34.2	65.9	84.1	69.6	
ANC @ pH 4	<0.03 mol/kg	TM182	0.866	1.22	0.15	1.18	1.14	1.02	
ANC @ pH 6	<0.03 mol/kg	TM182	0.147	0.305	0.0704	0.217	0.162	0.176	



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Results Legend		Customer Sample Ref.	BH204	BH204	BH204	BH204	BH204	BH204
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		0.00 - 0.50	1.00 - 2.00	11.00 - 12.50	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
aq	Aqueous / settled sample.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
diss.filt	Dissolved / filtered sample.		12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed		17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
1-5&*\$@	Sample deviation (see appendix)		181219-89	181219-89	181219-89	181219-89	181219-89	181219-89
			19002319	19002322	19002329	19002330	19002317	19002318
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	15	22	13	9.3	8.7	6.7
Loss on ignition	<0.7 %	TM018	10.3	2.24	<0.7	1.35	0.885	1.28
Mineral Oil Surrogate % recovery**	%	TM061	78	68.9	84	84	75.3	75.8
Mineral oil >C10-C40	<1 mg/kg	TM061	30.1	4110	<1	2.73	13.6	2.44
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	0.0128	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	0.0512	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.747	0.953	0.324	0.697	0.538	0.645
pH	1 pH Units	TM133	8.5	8.5	9.19	8.31	8.47	8.36
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	9.11	6.78	6.85	10.1	8.01	8.07
Cadmium	<0.02 mg/kg	TM181	0.492	0.51	1.21	1.52	4.24	1.23
Chromium	<0.9 mg/kg	TM181	9.71	11.8	4.65	5.95	5.66	5.57
Copper	<1.4 mg/kg	TM181	21.7	18.2	10.7	20.6	23.4	21.6
Lead	<0.7 mg/kg	TM181	53.8	31.3	6.67	12.5	14.4	8.79
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	14.8	13.3	19.5	29.9	28.1	26.2
Selenium	<1 mg/kg	TM181	<1	<1	1.76	2.97	2.94	2.21
Zinc	<1.9 mg/kg	TM181	66.1	73.1	55.9	59.4	66.1	48.3
ANC @ pH 4	<0.03 mol/kg	TM182	0.205	0.241	0.116	1.26	1.37	1.44
ANC @ pH 6	<0.03 mol/kg	TM182	0.0638	0.0533	0.0554	0.339	0.197	0.197



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Results Legend		Customer Sample Ref.	BH204	BH204	BH204	BH204	BH204	BH205
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.80 - 7.00	8.00 - 10.00	10.00 - 12.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018	14/12/2018
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Moisture Content Ratio (% of as received sample)	%	PM024	25	29	25	9.9	8.6	7.5
Loss on ignition	<0.7 %	TM018	6.52	6.2	5.29	1.01	1.1	<0.7
Mineral Oil Surrogate % recovery**	%	TM061	71.4	72	76	77.6	76.1	74.7
Mineral oil >C10-C40	<1 mg/kg	TM061	362	45.7	28.8	<1	5.59	<1
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	4.78	3.03	7.17	0.446	0.595	0.354
pH	1 pH Units	TM133	7.86	8.05	7.95	8.21	8.93	9.42
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	11.4	14	11.9	4.03	4.95	3.63
Cadmium	<0.02 mg/kg	TM181	0.673	0.825	0.684	0.409	0.444	0.806
Chromium	<0.9 mg/kg	TM181	10.3	13.7	11.5	2.09	3.68	5.41
Copper	<1.4 mg/kg	TM181	40.6	35.4	32	6.5	21	8.75
Lead	<0.7 mg/kg	TM181	57.9	63.6	72.1	6.81	11.3	5.66
Mercury	<0.14 mg/kg	TM181	0.545	0.427	0.391	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	24.8	24.1	19	7.27	11.9	11.2
Selenium	<1 mg/kg	TM181	<1	<1	<1	<1	<1	<1
Zinc	<1.9 mg/kg	TM181	74.7	83.1	69.1	23.9	31	39.6
ANC @ pH 4	<0.03 mol/kg	TM182	0.25	0.369	0.28	0.305	0.184	0.47
ANC @ pH 6	<0.03 mol/kg	TM182	0.0559	0.0701	0.0665	0.0811	0.0829	0.135



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Results Legend		Customer Sample Ref.	BH205	BH205	BH210	BH210	BH210	BH210
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	13.00 - 14.00	14.00 - 16.00	10.00 - 11.00	11.00 - 12.00	12.00 - 13.00	13.00 - 15.00
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		14/12/2018	14/12/2018	12/12/2018	14/12/2018	14/12/2018	14/12/2018
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed		17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
1-5&*\$@	Sample deviation (see appendix)		181219-89	181219-89	181219-89	181219-89	181219-89	181219-89
			19002292	19002294	19002332	19002333	19002335	19002336
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	9.9	12	11	16	27	5.2
Loss on ignition	<0.7 %	TM018	1.24	2.29	0.962	0.756	<0.7	1.61
Mineral Oil Surrogate % recovery**	%	TM061	72.7	70.1	78.2	84	76	83.2
Mineral oil >C10-C40	<1 mg/kg	TM061	10.6	37.8	<1	<1	<1	12.3
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Organic Carbon, Total	<0.2 %	TM132	0.604	0.679	2.64	0.516	0.628	0.525
pH	1 pH Units	TM133	8.67	8.54	9.48	8.73	8.5	8.36
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PCB congener 28	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 52	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 101	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 118	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 138	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 153	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
PCB congener 180	<3 µg/kg	TM168	<3	<3	<3	<3	<3	<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21	<21	<21	<21	<21
Arsenic	<0.6 mg/kg	TM181	7.88	8.19	7.13	10.3	8.65	8.21
Cadmium	<0.02 mg/kg	TM181	3.88	1.25	0.917	1.69	1.7	1.36
Chromium	<0.9 mg/kg	TM181	9.28	7.52	3.39	7.4	5.97	5.06
Copper	<1.4 mg/kg	TM181	21.4	19.7	9.14	22.2	23.6	17.4
Lead	<0.7 mg/kg	TM181	9.94	10	8.86	14.3	12.5	8.9
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181	25.5	24.7	16.9	33.3	31.1	23.9
Selenium	<1 mg/kg	TM181	2.42	2.26	<1	3.02	2.11	2.66
Zinc	<1.9 mg/kg	TM181	184	51.6	56.9	80	68.2	53.2
ANC @ pH 4	<0.03 mol/kg	TM182	1.03	1.04	0.343	1.62	1.04	1.24
ANC @ pH 6	<0.03 mol/kg	TM182	<0.03	0.309	0.113	0.278	0.395	0.214



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Results Legend		Customer Sample Ref.	BH210	BH210			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-5&*\$@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	15.00 - 16.00 Soil/Solid (S) 14/12/2018 . 17/12/2018 181219-89 19002337	16.00 - 17.00 Soil/Solid (S) 14/12/2018 . 17/12/2018 181219-89 19002331			
Component	LOD/Units	Method					
Moisture Content Ratio (% of as received sample)	%	PM024	9.6	8.6			
Loss on ignition	<0.7 %	TM018	1.99	1.89	M	M	
Mineral Oil Surrogate % recovery**	%	TM061	84.1	85.2	@	@	
Mineral oil >C10-C40	<1 mg/kg	TM061	14.2	71.8	@	@	
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	@ M	@ M	
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	@ M	@ M	
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	@ M	@ M	
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	@ M	@ M	
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015	@ M	@ M	
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06	@ M	@ M	
Organic Carbon, Total	<0.2 %	TM132	0.721	1.48	M	M	
pH	1 pH Units	TM133	8.28	8.44	M	M	
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6	<0.6	#	#	
PCB congener 28	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 52	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 101	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 118	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 138	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 153	<3 µg/kg	TM168	<3	<3	M	M	
PCB congener 180	<3 µg/kg	TM168	<3	<3	M	M	
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168	<21	<21			
Arsenic	<0.6 mg/kg	TM181	8.79	10.1	M	M	
Cadmium	<0.02 mg/kg	TM181	1.69	1.65	M	M	
Chromium	<0.9 mg/kg	TM181	5.7	7.02	M	M	
Copper	<1.4 mg/kg	TM181	20.6	25.3	M	M	
Lead	<0.7 mg/kg	TM181	11.4	13.4	M	M	
Mercury	<0.14 mg/kg	TM181	<0.14	<0.14	M	M	
Nickel	<0.2 mg/kg	TM181	28.5	35.5	M	M	
Selenium	<1 mg/kg	TM181	2.66	3.45	#	#	
Zinc	<1.9 mg/kg	TM181	60	67.2	M	M	
ANC @ pH 4	<0.03 mol/kg	TM182	1.42	0.913			
ANC @ pH 6	<0.03 mol/kg	TM182	0.129	0.11			



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

PAH by GCMS

Results Legend			Customer Sample Ref.	BH201	BH201	BH201	BH201	BH202	BH202
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Naphthalene-d8 % recovery**	%	TM218	13.00 - 14.00	80	95.5	145	96.9	96.4	94.5
Acenaphthene-d10 % recovery**	%	TM218	14.00 - 15.00	82	87.7	153	88.5	94.5	91.5
Phenanthrene-d10 % recovery**	%	TM218	15.00 - 16.00	85.5	88.5	148	92.2	95	89.4
Chrysene-d12 % recovery**	%	TM218	16.00 - 17.00	103	73.8	136	81.9	107	99.3
Perylene-d12 % recovery**	%	TM218	17.00 - 18.00	85.1	71.6	123	73.7	99.4	90.3
Naphthalene	<9 µg/kg	TM218	11/12/2018	10	<9 @ M	<9 @ M	13.1 @ M	<9 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218	11/12/2018	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218	11/12/2018	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218	11/12/2018	<10 @ M	<10 @ M	<10 @ M	11.7 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218	11/12/2018	34.8 @ M	32.4 @ M	26.9 @ M	37.9 @ M	<15 @ M	21.3 @ M
Anthracene	<16 µg/kg	TM218	11/12/2018	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218	11/12/2018	<17 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218	11/12/2018	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218	11/12/2018	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218	11/12/2018	12.9 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	13.3 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	11/12/2018	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	11/12/2018	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218	11/12/2018	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	11/12/2018	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	11/12/2018	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	11/12/2018	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	11/12/2018	<118	<118	<118	<118	<118	<118



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

PAH by GCMS

Results Legend			Customer Sample Ref.		BH202	BH202	BH203	BH203	BH203	BH203
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-5&*\$@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
			14.00 - 15.00 Soil/Solid (S) 12/12/2018	15.00 - 17.00 Soil/Solid (S) 12/12/2018	10.00 - 12.00 Soil/Solid (S) 12/12/2018	13.00 - 14.00 Soil/Solid (S) 12/12/2018	14.00 - 15.00 Soil/Solid (S) 12/12/2018	15.00 - 16.00 Soil/Solid (S) 12/12/2018		
			17/12/2018 181219-89 19002299	17/12/2018 181219-89 19002300	17/12/2018 181219-89 19002312	17/12/2018 181219-89 19002313	17/12/2018 181219-89 19002314	17/12/2018 181219-89 19002315		
Component	LOD/Units	Method								
Naphthalene-d8 % recovery**	%	TM218	94.4	96.6	96.9	96.8	159	94.7		
Acenaphthene-d10 % recovery**	%	TM218	95.8	94.4	94.2	95.3	159	92.5		
Phenanthrene-d10 % recovery**	%	TM218	93.1	93	92.6	90.6	155	93		
Chrysene-d12 % recovery**	%	TM218	95.8	102	101	95.7	153	95.6		
Perylene-d12 % recovery**	%	TM218	87.4	93.8	98.3	88.5	145	81.5		
Naphthalene	<9 µg/kg	TM218	<9 @ M	<9 @ M	<9 @ M	<9 @ M	<9 @ M	9.84 @ M		
Acenaphthylene	<12 µg/kg	TM218	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M		
Acenaphthene	<8 µg/kg	TM218	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M		
Fluorene	<10 µg/kg	TM218	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M		
Phenanthrene	<15 µg/kg	TM218	<15 @ M	<15 @ M	<15 @ M	<15 @ M	23.8 @ M	33 @ M		
Anthracene	<16 µg/kg	TM218	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M		
Fluoranthene	<17 µg/kg	TM218	<17 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M		
Pyrene	<15 µg/kg	TM218	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M		
Benz(a)anthracene	<14 µg/kg	TM218	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M		
Chrysene	<10 µg/kg	TM218	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M		
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M		
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M		
Benzo(a)pyrene	<15 µg/kg	TM218	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	<118	<118	<118	<118		



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

PAH by GCMS

Results Legend			Customer Sample Ref.	BH204	BH204	BH204	BH204	BH204	BH204
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Naphthalene-d8 % recovery**	%	TM218	0.00 - 0.50	93.6	103	96.5	96.6	96	97.4
Acenaphthene-d10 % recovery**	%	TM218	1.00 - 2.00	100	114	95	95.1	89.9	91.6
Phenanthrene-d10 % recovery**	%	TM218	11.00 - 12.50	101	107	95.2	94.9	91.7	92
Chrysene-d12 % recovery**	%	TM218	13.00 - 14.00	96.6	108	106	101	83	82.7
Perylene-d12 % recovery**	%	TM218	14.00 - 15.00	107	110	100	88.5	80.4	74.2
Naphthalene	<9 µg/kg	TM218	16.00 - 17.00	27.5	616	<9	<9	13.1	14.8
Acenaphthylene	<12 µg/kg	TM218		19.4	468	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218		<8	905	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218		19.4	2480	<10	<10	11.1	11.6
Phenanthrene	<15 µg/kg	TM218		142	2680	<15	31.1	44.1	45.8
Anthracene	<16 µg/kg	TM218		70.3	386	<16	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218		345	474	<17	<17	<17	<17
Pyrene	<15 µg/kg	TM218		272	572	<15	<15	<15	<15
Benz(a)anthracene	<14 µg/kg	TM218		229	236	<14	<14	<14	<14
Chrysene	<10 µg/kg	TM218		221	254	<10	11	<10	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218		289	221	<15	<15	<15	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218		113	99	<14	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218		199	158	<15	<15	<15	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		118	85.5	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		36.6	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218		124	81.8	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2230	9720	<118	<118	<118	<118



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

PAH by GCMS

Results Legend		Customer Sample Ref.	BH205	BH205	BH210	BH210	BH210	BH210
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	13.00 - 14.00	14.00 - 16.00	10.00 - 11.00	11.00 - 12.00	12.00 - 13.00	13.00 - 15.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfilt	Total / unfiltered sample.	Date Sampled	14/12/2018	14/12/2018	12/12/2018	14/12/2018	14/12/2018	14/12/2018
*	Subcontracted test.	Sampled Time	.	.	00:00:00	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
(F)	Trigger breach confirmed	SDG Ref	181219-89	181219-89	181219-89	181219-89	181219-89	181219-89
1-5&*\$@	Sample deviation (see appendix)	Lab Sample No.(s)	19002292	19002294	19002332	19002333	19002335	19002336
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	99	101	125	98	95	97.7
Acenaphthene-d10 % recovery**	%	TM218	99.7	100	125	97.3	88.9	95.3
Phenanthrene-d10 % recovery**	%	TM218	103	101	126	93.1	94.4	92.8
Chrysene-d12 % recovery**	%	TM218	97	94	130	95.9	89.6	97.4
Perylene-d12 % recovery**	%	TM218	90.3	84.1	126	89.8	85.7	83.9
Naphthalene	<9 µg/kg	TM218	<9 @ M	<9 @ M	<9 @ M	<9 @ M	<9 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218	<15 @ M	25.5 @ M	20.5 @ M	<15 @ M	<15 @ M	<15 @ M
Anthracene	<16 µg/kg	TM218	<16 @ M	27.5 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218	<17 @ M	<17 @ M	20.7 @ M	<17 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218	<15 @ M	<15 @ M	17.6 @ M	<15 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218	<10 @ M	<10 @ M	11.4 @ M	<10 @ M	<10 @ M	12.2 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118	<118	<118	<118	<118



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH201	BH201	BH201	BH201	BH202	BH202
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	11.50 - 13.00	13.00 - 14.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfilt	Total / unfiltered sample.	Date Sampled	11/12/2018	11/12/2018	11/12/2018	11/12/2018	12/12/2018	12/12/2018
*	Subcontracted test.	Sampled Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
(F)	Trigger breach confirmed	SDG Ref	181219-89	181219-89	181219-89	181219-89	181219-89	181219-89
1-5&*\$@	Sample deviation (see appendix)	Lab Sample No.(s)	19002305	19002307	19002308	19002309	19002301	19002298
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	82.8 @	35.1 @	14.9 @	15.6 @	74.4 @	12.1 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	251 @	<100 @	<100 @	<100 @	<100 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	30.8 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089	80.3 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	45.1 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173	4000 @	758 @	3430 @	1780 @	<100 @	<100 @
Aliphatics >C16-C21	<100 µg/kg	TM173	4370 @	1170 @	3760 @	2790 @	<100 @	<100 @
Aliphatics >C21-C35	<100 µg/kg	TM173	50300 @	27300 @	30500 @	61500 @	<100 @	10200 @
Aliphatics >C35-C44	<100 µg/kg	TM173	24800 @	13000 @	14400 @	33400 @	<100 @	5310 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173	83500 @	42200 @	52100 @	99500 @	<100 @	15500 @
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	52.8 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	30.8 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100 @	<100 @	<100 @	857 @	<100 @	<100 @
Aromatics >EC16-EC21	<100 µg/kg	TM173	1060 @	727 @	1280 @	2060 @	<100 @	<100 @
Aromatics >EC21-EC35	<100 µg/kg	TM173	12200 @	7390 @	8160 @	16600 @	<100 @	<100 @
Aromatics >EC35-EC44	<100 µg/kg	TM173	3020 @	1530 @	1790 @	9170 @	<100 @	<100 @
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100 @	<100 @	<100 @	3200 @	<100 @	<100 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	16300 @	9650 @	11200 @	28700 @	<100 @	<100 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	100000 @	51800 @	63300 @	128000 @	<100 @	15500 @



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample Ref.	BH202	BH202	BH203	BH203	BH203	BH203
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
GRO Surrogate % recovery**	%	TM089	14.00 - 15.00	23.5	18.3	84	28.5	27.3	14.9
			12/12/2018	@	@	@	@	@	@
GRO TOT (Moisture Corrected)	<100	TM089	15.00 - 17.00	<100	<100	<100	<100	<100	<100
	µg/kg		12/12/2018	@	@	@	@	@	@
Aliphatics >C5-C6	<10	TM089	10.00 - 12.00	<10	<10	<10	<10	<10	<10
	µg/kg		12/12/2018	@	@	@	@	@	@
Aliphatics >C6-C8	<10	TM089	13.00 - 14.00	<10	<10	<10	<10	<10	<10
	µg/kg		12/12/2018	@	@	@	@	@	@
Aliphatics >C8-C10	<10	TM089	14.00 - 15.00	<10	<10	<10	<10	<10	<10
	µg/kg		12/12/2018	@	@	@	@	@	@
Aliphatics >C10-C12	<10	TM089	15.00 - 16.00	<10	<10	<10	<10	<10	<10
	µg/kg		12/12/2018	@	@	@	@	@	@
Aliphatics >C12-C16	<100	TM173	17/12/2018	<100	<100	<100	602	676	1650
	µg/kg		181219-89	@	@	@	@	@	@
Aliphatics >C16-C21	<100	TM173	181219-89	<100	<100	<100	<100	950	2070
	µg/kg		19002299	@	@	@	@	@	@
Aliphatics >C21-C35	<100	TM173	19002300	17700	9200	<100	15500	17100	20400
	µg/kg			@	@	@	@	@	@
Aliphatics >C35-C44	<100	TM173		8880	4370	<100	7410	8510	9090
	µg/kg			@	@	@	@	@	@
Total Aliphatics >C12-C44	<100	TM173		26600	13600	<100	23500	27200	33200
	µg/kg			@	@	@	@	@	@
Aromatics >EC5-EC7	<10	TM089		<10	<10	<10	<10	<10	<10
	µg/kg			@	@	@	@	@	@
Aromatics >EC7-EC8	<10	TM089		<10	<10	<10	<10	<10	<10
	µg/kg			@	@	@	@	@	@
Aromatics >EC8-EC10	<10	TM089		<10	<10	<10	<10	<10	<10
	µg/kg			@	@	@	@	@	@
Aromatics >EC10-EC12	<10	TM089		<10	<10	<10	<10	<10	<10
	µg/kg			@	@	@	@	@	@
Aromatics >EC12-EC16	<100	TM173		<100	<100	<100	409	<100	<100
	µg/kg			@	@	@	@	@	@
Aromatics >EC16-EC21	<100	TM173		<100	<100	<100	624	<100	824
	µg/kg			@	@	@	@	@	@
Aromatics >EC21-EC35	<100	TM173		<100	<100	<100	5260	<100	5820
	µg/kg			@	@	@	@	@	@
Aromatics >EC35-EC44	<100	TM173		<100	<100	<100	2570	<100	1080
	µg/kg			@	@	@	@	@	@
Aromatics >EC40-EC44	<100	TM173		<100	<100	<100	1140	<100	<100
	µg/kg			@	@	@	@	@	@
Total Aromatics >EC12-EC44	<100	TM173		<100	<100	<100	8860	<100	7730
	µg/kg			@	@	@	@	@	@
Total Aliphatics & Aromatics >C5-C44	<100	TM173		26600	13600	<100	32400	27200	40900
	µg/kg			@	@	@	@	@	@



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH204	BH204	BH204	BH204	BH204	BH204
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.00 - 0.50	1.00 - 2.00	11.00 - 12.50	13.00 - 14.00	14.00 - 15.00	16.00 - 17.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfilt	Total / unfiltered sample.	Date Sampled	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018
*	Subcontracted test.	Sampled Time						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
(F)	Trigger breach confirmed	SDG Ref	181219-89	181219-89	181219-89	181219-89	181219-89	181219-89
1-5&*\$@	Sample deviation (see appendix)	Lab Sample No.(s)	19002319	19002322	19002329	19002330	19002317	19002318
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	89 @	99.1 @	93 @	24.5 @	14.1 @	22.8 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	1060 @	707000 3 @	<100 @	<100 @	<100 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<200 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	41 @	1330 @	<10 @	<10 @	<10 @	21.4 @
Aliphatics >C8-C10	<10 µg/kg	TM089	165 @	62900 @	<10 @	<10 @	<10 @	16.1 @
Aliphatics >C10-C12	<10 µg/kg	TM089	442 @	361000 @	<10 @	<10 @	<10 @	15 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100 @	1760000 @	<100 @	3890 @	1860 @	2540 @
Aliphatics >C16-C21	<100 µg/kg	TM173	<100 @	1990000 @	<100 @	3810 @	1420 @	2670 @
Aliphatics >C21-C35	<100 µg/kg	TM173	6140 @	742000 @	6680 @	15300 @	4260 @	7320 @
Aliphatics >C35-C44	<100 µg/kg	TM173	<100 @	<200 @	3280 @	4610 @	900 @	<100 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173	6140 @	4490000 @	9950 @	27600 @	8440 @	12500 @
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<200 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<200 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	110 @	42000 @	<10 @	<10 @	<10 @	10.7 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	295 @	240000 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	1010 @	857000 @	<100 @	<100 @	641 @	<100 @
Aromatics >EC16-EC21	<100 µg/kg	TM173	3080 @	993000 @	<100 @	<100 @	1080 @	<100 @
Aromatics >EC21-EC35	<100 µg/kg	TM173	12600 @	437000 @	<100 @	<100 @	3740 @	<100 @
Aromatics >EC35-EC44	<100 µg/kg	TM173	1790 @	8410 @	<100 @	<100 @	5370 @	<100 @
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100 @	2470 @	<100 @	<100 @	3010 @	<100 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	18400 @	2300000 @	<100 @	<100 @	10800 @	<100 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	25600 @	7500000 @	9950 @	27600 @	19300 @	12600 @



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH204	BH204	BH204	BH204	BH204	BH205
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.80 - 7.00	8.00 - 10.00	10.00 - 12.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfilt	Total / unfiltered sample.	Date Sampled	12/12/2018	12/12/2018	12/12/2018	12/12/2018	12/12/2018	14/12/2018
*	Subcontracted test.	Sampled Time						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
(F)	Trigger breach confirmed	SDG Ref	181219-89	181219-89	181219-89	181219-89	181219-89	181219-89
1-5&*\$@	Sample deviation (see appendix)	Lab Sample No.(s)	19002324	19002325	19002326	19002327	19002328	19002291
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	122 @	92 @	86 @	94 @	90.4 @	94.7 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	29900 @	10600 @	2890 @	444 @	615 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	26.6 @	25.4 @	20.1 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	326 @	137 @	68.3 @	30 @	32.9 @	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089	3860 @	1370 @	409 @	68.8 @	108 @	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	13900 @	4870 @	1270 @	173 @	234 @	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173	135000 @	74700 @	6870 @	<100 @	<100 @	<100 @
Aliphatics >C16-C21	<100 µg/kg	TM173	159000 @	80400 @	11000 @	<100 @	<100 @	<100 @
Aliphatics >C21-C35	<100 µg/kg	TM173	73700 @	39500 @	25300 @	<100 @	<100 @	<100 @
Aliphatics >C35-C44	<100 µg/kg	TM173	2990 @	1200 @	11100 @	<100 @	<100 @	<100 @
Total Aliphatics >C12-C44	<100 µg/kg	TM173	371000 @	196000 @	54200 @	<100 @	<100 @	<100 @
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	2580 @	915 @	272 @	46.6 @	72.3 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	9260 @	3250 @	847 @	115 @	157 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	49900 @	36500 @	5860 @	676 @	<100 @	<100 @
Aromatics >EC16-EC21	<100 µg/kg	TM173	80600 @	54900 @	21200 @	2910 @	<100 @	<100 @
Aromatics >EC21-EC35	<100 µg/kg	TM173	57800 @	64800 @	56600 @	7060 @	<100 @	<100 @
Aromatics >EC35-EC44	<100 µg/kg	TM173	2920 @	14400 @	11500 @	1010 @	<100 @	<100 @
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100 @	5360 @	3070 @	<100 @	<100 @	<100 @
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	191000 @	171000 @	95100 @	11700 @	<100 @	<100 @
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	592000 @	377000 @	152000 @	12100 @	604 @	<100 @



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	BH205	BH205	BH210	BH210	BH210	BH210
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	13.00 - 14.00	14.00 - 16.00	10.00 - 11.00	11.00 - 12.00	12.00 - 13.00	13.00 - 15.00
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfilt	Total / unfiltered sample.	Date Sampled	14/12/2018	14/12/2018	12/12/2018	14/12/2018	14/12/2018	14/12/2018
*	Subcontracted test.	Sampled Time	.	.	00:00:00	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018	17/12/2018
(F)	Trigger breach confirmed	SDG Ref	181219-89	181219-89	181219-89	181219-89	181219-89	181219-89
1-5&*\$@	Sample deviation (see appendix)	Lab Sample No.(s)	19002292	19002294	19002332	19002333	19002335	19002336
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	57 @	48 @	116 @	61.5 @	13.7 @	11.6 @
GRO TOT (Moisture Corrected)	<100 µg/kg	TM089	474 @	462 @	<100 @	<100 @	<100 @	<100 @
Aliphatics >C5-C6	<10 µg/kg	TM089	13.3 @	20.5 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	44.4 @	47.9 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089	111 @	109 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089	137 @	123 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173	1370	<100	<100	<100	<100	576
Aliphatics >C16-C21	<100 µg/kg	TM173	1640	<100	<100	<100	<100	423
Aliphatics >C21-C35	<100 µg/kg	TM173	30400	13600	<100	<100	8620	1430
Aliphatics >C35-C44	<100 µg/kg	TM173	18300	6460	<100	<100	2740	1120
Total Aliphatics >C12-C44	<100 µg/kg	TM173	51700	20100	<100	<100	11400	3560
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	74.4 @	73 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	91 @	82.1 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	<100	<100	<100	335
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	<100	<100	<100	549
Aromatics >EC21-EC35	<100 µg/kg	TM173	5010	<100	<100	<100	<100	1070
Aromatics >EC35-EC44	<100 µg/kg	TM173	4390	<100	<100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	1830	<100	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	9400	<100	<100	<100	<100	1960
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	61600	20500	<100	<100	11400	5510



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample Ref.	BH201	BH201	BH201	BH201	BH202	BH202
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	11.50 - 13.00	13.00 - 14.00
Dibromofluoromethane**	%	TM116	Soil/Solid (S)	114	109	108	108	111	104
			Soil/Solid (S)	@	@	@	@	@	@
Toluene-d8**	%	TM116	Date Sampled	98.6	100	99.3	100	98.2	98.9
			11/12/2018	@	@	@	@	@	@
4-Bromofluorobenzene**	%	TM116	Sampled Time	92.2	97.1	96.4	96.2	93.6	97.6
			11/12/2018	@	@	@	@	@	@
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	Date Received	<200	<2000	<2000	<2000	<200	<2000
			17/12/2018	@ M	@ M	@ M	@ M	@ M	@ M
Benzene	<9 µg/kg	TM116	SDG Ref	<180	<1800	<1800	<1800	<180	<1800
			181219-89	@ M	@ M	@ M	@ M	@ M	@ M
Toluene	<7 µg/kg	TM116	Lab Sample No.(s)	<140	<1400	<1400	<1400	<140	<1400
			19002305	@ M	@ M	@ M	@ M	@ M	@ M
Ethylbenzene	<4 µg/kg	TM116	AGS Reference	<80	<800	<800	<800	<80	<800
				@ M	@ M	@ M	@ M	@ M	@ M
p/m-Xylene	<10 µg/kg	TM116		<200	<2000	<2000	<2000	<200	<2000
				@ #	@ #	@ #	@ #	@ #	@ #
o-Xylene	<10 µg/kg	TM116		<200	<2000	<2000	<2000	<200	<2000
				@ M	@ M	@ M	@ M	@ M	@ M
Sum of Detected Xylenes	<0.02 mg/kg	TM116		<0.4	<4	<4	<4	<0.4	<4
				@	@	@	@	@	@
Sum of BTEX	<40 µg/kg	TM116		<800	<8000	<8000	<8000	<800	<8000
				@	@	@	@	@	@



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Asbestos Identification - Solid Samples

Results Legend

- # ISO17025 accredited.
- M mCERTS accredited.
- * Subcontracted test.
- (F) Trigger breach confirmed
- 1-5&*&@ Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 13.00 - 14.00 SOLID 11/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002305 TM048	03/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 14.00 - 15.00 SOLID 11/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002307 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 15.00 - 16.00 SOLID 11/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002308 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH201 16.00 - 17.00 SOLID 11/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002309 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 11.50 - 13.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002301 TM048	03/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 13.00 - 14.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002298 TM048	03/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 14.00 - 15.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002299 TM048	03/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH202 15.00 - 17.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002300 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	181219-89	Client Reference:	602387	Report Number:	489223
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 10.00 - 12.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002312 TM048	03/01/2019	Barbara UrbaneK-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 13.00 - 14.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002313 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 14.00 - 15.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002314 TM048	03/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH203 15.00 - 16.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002315 TM048	03/01/2019	Barbara UrbaneK-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 0.00 - 0.50 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002319 TM048	03/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 1.00 - 2.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002322 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 11.00 - 12.50 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002329 TM048	03/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 13.00 - 14.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002330 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 14.00 - 15.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002317 TM048	03/01/2019	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	181219-89	Client Reference:	602387	Report Number:	489223
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 16.00 - 17.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002318 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 2.00 - 3.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002324 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 3.00 - 4.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002325 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 4.00 - 5.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002326 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 5.80 - 7.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002327 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH204 8.00 - 10.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002328 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 10.00 - 12.00 SOLID 14/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002291 TM048	14/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 13.00 - 14.00 SOLID 14/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002292 TM048	14/01/2019	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH205 14.00 - 16.00 SOLID 14/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002294 TM048	14/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG:	181219-89	Client Reference:	602387	Report Number:	489223
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 10.00 - 11.00 SOLID 12/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002332 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 11.00 - 12.00 SOLID 14/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002333 TM048	03/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 12.00 - 13.00 SOLID 14/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002335 TM048	03/01/2019	Lucy Caroe	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 13.00 - 15.00 SOLID 14/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002336 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 15.00 - 16.00 SOLID 14/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002337 TM048	03/01/2019	Andrzej Ferfecki	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH210 16.00 - 17.00 SOLID 14/12/2018 00:00:00 17/12/2018 09:00:00 181219-89 19002331 TM048	03/01/2019	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	8.11
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.5
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002291
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.354
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.42
ANC to pH 6 (mol/kg)	0.135
ANC to pH 4 (mol/kg)	0.47

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.00087	<0.0005	0.0087	<0.005	0.5	2	25
Barium	0.00895	<0.0002	0.0895	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00157	<0.001	0.0157	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	92	<2	920	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	18.2	<2	182	<20	1000	20000	50000
Total Dissolved Solids	278	<5	2780	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	12-Jan-2019
pH (pH Units)	9.53
Conductivity (µS/cm)	372.00
Temperature (°C)	18.60
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.1
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002292
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.604
Loss on Ignition (%)	1.24
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	10.6
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.67
ANC to pH 6 (mol/kg)	<0.03
ANC to pH 4 (mol/kg)	1.03

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.000883	<0.0005	0.00883	<0.005	0.5	2	25
Barium	0.0744	<0.0002	0.744	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000572	<0.0003	0.00572	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0123	<0.003	0.123	<0.03	0.5	10	30
Nickel	0.000776	<0.0004	0.00776	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00303	<0.001	0.0303	<0.01	0.06	0.7	5
Selenium	0.0242	<0.001	0.242	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	187	<2	1870	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	50.6	<2	506	<20	1000	20000	50000
Total Dissolved Solids	527	<5	5270	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	12-Jan-2019
pH (pH Units)	6.56
Conductivity (µS/cm)	698.00
Temperature (°C)	17.80
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002294
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH205
Depth (m)	14.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.679
Loss on Ignition (%)	2.29
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	37.8
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.54
ANC to pH 6 (mol/kg)	0.309
ANC to pH 4 (mol/kg)	1.04

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00199	<0.0005	0.0199	<0.005	0.5	2	25
Barium	0.063	<0.0002	0.63	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000596	<0.0003	0.00596	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0135	<0.003	0.135	<0.03	0.5	10	30
Nickel	0.00117	<0.0004	0.0117	<0.004	0.4	10	40
Lead	0.000205	<0.0002	0.00205	<0.002	0.5	10	50
Antimony	0.00288	<0.001	0.0288	<0.01	0.06	0.7	5
Selenium	0.0245	<0.001	0.245	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	221	<4	2210	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	48.8	<2	488	<20	1000	20000	50000
Total Dissolved Solids	615	<5	6150	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	12-Jan-2019
pH (pH Units)	8.58
Conductivity (µS/cm)	796.00
Temperature (°C)	18.50
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.7
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.3
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002298
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.672
Loss on Ignition (%)	2.82
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.4
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.57
ANC to pH 6 (mol/kg)	0.181
ANC to pH 4 (mol/kg)	0.468

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.000974	<0.0005	0.00974	<0.005	0.5	2	25
Barium	0.0383	<0.0002	0.383	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00849	<0.003	0.0849	<0.03	0.5	10	30
Nickel	0.000743	<0.0004	0.00743	<0.004	0.4	10	40
Lead	0.000301	<0.0002	0.00301	<0.002	0.5	10	50
Antimony	0.00226	<0.001	0.0226	<0.01	0.06	0.7	5
Selenium	0.038	<0.001	0.38	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	193	<2	1930	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	37.7	<2	377	<20	1000	20000	50000
Total Dissolved Solids	521	<5	5210	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	9.07
Conductivity (µS/cm)	748.00
Temperature (°C)	15.50
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	City Block 9
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89

Case	
SDG	181219-89
Lab Sample Number(s)	19002299
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	14.00 - 15.00

**Landfill Waste Acceptance
Criteria Limits**

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.489
Loss on Ignition (%)	0.886
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.61
ANC to pH 6 (mol/kg)	0.147
ANC to pH 4 (mol/kg)	0.866

Eluate Analysis	C₂ Concⁿ in 10:1 eluate (mg/l)		A₂ 10:1 concⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000692	<0.0005	0.00692	<0.005	0.5	2	25
Barium	0.0462	<0.0002	0.462	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0138	<0.003	0.138	<0.03	0.5	10	30
Nickel	0.00106	<0.0004	0.0106	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00273	<0.001	0.0273	<0.01	0.06	0.7	5
Selenium	0.0326	<0.001	0.326	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	211	<4	2110	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	46.5	<2	465	<20	1000	20000	50000
Total Dissolved Solids	572	<5	5720	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	9.01
Conductivity (µS/cm)	790.00
Temperature (°C)	15.50
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002300
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	15.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.535
Loss on Ignition (%)	2.21
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.42
ANC to pH 6 (mol/kg)	0.305
ANC to pH 4 (mol/kg)	1.22

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000748	<0.0005	0.00748	<0.005	0.5	2	25
Barium	0.0405	<0.0002	0.405	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0203	<0.003	0.203	<0.03	0.5	10	30
Nickel	0.00124	<0.0004	0.0124	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00212	<0.001	0.0212	<0.01	0.06	0.7	5
Selenium	0.0236	<0.001	0.236	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	220	<4	2200	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	71.3	<2	713	<20	1000	20000	50000
Total Dissolved Solids	633	<5	6330	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.50
Conductivity (µS/cm)	866.00
Temperature (°C)	15.60
Volume Leachant (Litres)	0.889

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 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)	19
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	84
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002301
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH202
Depth (m)	11.50 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.325
Loss on Ignition (%)	1.1
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.08
ANC to pH 6 (mol/kg)	0.114
ANC to pH 4 (mol/kg)	0.253

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00162	<0.0005	0.0162	<0.005	0.5	2	25
Barium	0.0359	<0.0002	0.359	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00574	<0.003	0.0574	<0.03	0.5	10	30
Nickel	0.000646	<0.0004	0.00646	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00183	<0.001	0.0183	<0.01	0.06	0.7	5
Selenium	0.0372	<0.001	0.372	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	239	<4	2390	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	47.8	<2	478	<20	1000	20000	50000
Total Dissolved Solids	677	<5	6770	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	9.04
Conductivity (µS/cm)	929.00
Temperature (°C)	16.20
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.6
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002305
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.706
Loss on Ignition (%)	1.98
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	125
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.18
ANC to pH 6 (mol/kg)	0.168
ANC to pH 4 (mol/kg)	1.84

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0292	<0.0002	0.292	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0223	<0.003	0.223	<0.03	0.5	10	30
Nickel	0.000969	<0.0004	0.00969	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00181	<0.001	0.0181	<0.01	0.06	0.7	5
Selenium	0.0334	<0.001	0.334	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	171	<2	1710	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	75	<2	750	<20	1000	20000	50000
Total Dissolved Solids	483	<5	4830	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.33
Conductivity (µS/cm)	673.00
Temperature (°C)	14.40
Volume Leachant (Litres)	0.891

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19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11.1
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002307
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.816
Loss on Ignition (%)	2.39
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	26.7
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.41
ANC to pH 6 (mol/kg)	0.174
ANC to pH 4 (mol/kg)	1.5

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.029	<0.0002	0.29	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000863	<0.0003	0.00863	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0194	<0.003	0.194	<0.03	0.5	10	30
Nickel	0.000854	<0.0004	0.00854	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00151	<0.001	0.0151	<0.01	0.06	0.7	5
Selenium	0.0296	<0.001	0.296	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	187	<2	1870	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	71.5	<2	715	<20	1000	20000	50000
Total Dissolved Solids	513	<5	5130	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.31
Conductivity (µS/cm)	721.00
Temperature (°C)	15.30
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	8.34
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.3
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002308
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.78
Loss on Ignition (%)	1.62
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	76
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.26
ANC to pH 6 (mol/kg)	0.14
ANC to pH 4 (mol/kg)	1.38

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.000589	<0.0005	0.00589	<0.005	0.5	2	25
Barium	0.0311	<0.0002	0.311	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0228	<0.003	0.228	<0.03	0.5	10	30
Nickel	0.00092	<0.0004	0.0092	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00175	<0.001	0.0175	<0.01	0.06	0.7	5
Selenium	0.0323	<0.001	0.323	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	172	<2	1720	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	70.8	<2	708	<20	1000	20000	50000
Total Dissolved Solids	486	<5	4860	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.32
Conductivity (µS/cm)	660.00
Temperature (°C)	15.10
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	10.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.6
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002309
Sampled Date	11-Dec-2018
Customer Sample Ref.	BH201
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.66
Loss on Ignition (%)	2.29
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	157
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.31
ANC to pH 6 (mol/kg)	0.166
ANC to pH 4 (mol/kg)	1.42

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000642	<0.0005	0.00642	<0.005	0.5	2	25
Barium	0.0339	<0.0002	0.339	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0239	<0.003	0.239	<0.03	0.5	10	30
Nickel	0.00117	<0.0004	0.0117	<0.004	0.4	10	40
Lead	0.000738	<0.0002	0.00738	<0.002	0.5	10	50
Antimony	0.00206	<0.001	0.0206	<0.01	0.06	0.7	5
Selenium	0.03	<0.001	0.3	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	149	<2	1490	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	63.1	<2	631	<20	1000	20000	50000
Total Dissolved Solids	431	<5	4310	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.08	<0.016	0.8	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.32
Conductivity (µS/cm)	594.00
Temperature (°C)	15.50
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.096	Natural Moisture Content (%)	6.61
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.8
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002312
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	10.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.343
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	7.46
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.36
ANC to pH 6 (mol/kg)	0.0704
ANC to pH 4 (mol/kg)	0.15

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000981	<0.0005	0.00981	<0.005	0.5	2	25
Barium	0.00827	<0.0002	0.0827	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00231	<0.001	0.0231	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	55.5	<2	555	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	12.4	<2	124	<20	1000	20000	50000
Total Dissolved Solids	188	<5	1880	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.35
Conductivity (µS/cm)	248.00
Temperature (°C)	13.30
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.102	Natural Moisture Content (%)	13.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	88
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002313
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.2
Loss on Ignition (%)	1.21
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	3.31
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.52
ANC to pH 6 (mol/kg)	0.217
ANC to pH 4 (mol/kg)	1.18

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.000901	<0.0005	0.00901	<0.005	0.5	2	25
Barium	0.044	<0.0002	0.44	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.017	<0.003	0.17	<0.03	0.5	10	30
Nickel	0.000969	<0.0004	0.00969	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00273	<0.001	0.0273	<0.01	0.06	0.7	5
Selenium	0.0396	<0.001	0.396	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	199	<4	1990	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	58.7	<2	587	<20	1000	20000	50000
Total Dissolved Solids	598	<5	5980	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.31
Conductivity (µS/cm)	804.00
Temperature (°C)	14.80
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002314
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.586
Loss on Ignition (%)	1.55
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	8.81
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.65
ANC to pH 6 (mol/kg)	0.162
ANC to pH 4 (mol/kg)	1.14

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.000679	<0.0005	0.00679	<0.005	0.5	2	25
Barium	0.0469	<0.0002	0.469	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0148	<0.003	0.148	<0.03	0.5	10	30
Nickel	0.00116	<0.0004	0.0116	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00291	<0.001	0.0291	<0.01	0.06	0.7	5
Selenium	0.0272	<0.001	0.272	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	151	<2	1510	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	48.2	<2	482	<20	1000	20000	50000
Total Dissolved Solids	440	<5	4400	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.68
Conductivity (µS/cm)	621.00
Temperature (°C)	13.40
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.76
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	92.8
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002315
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH203
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.783
Loss on Ignition (%)	1.51
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	30.6
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.45
ANC to pH 6 (mol/kg)	0.176
ANC to pH 4 (mol/kg)	1.02

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0307	<0.0002	0.307	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000605	<0.0003	0.00605	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0224	<0.003	0.224	<0.03	0.5	10	30
Nickel	0.000863	<0.0004	0.00863	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00184	<0.001	0.0184	<0.01	0.06	0.7	5
Selenium	0.0302	<0.001	0.302	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	176	<2	1760	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	71.5	<2	715	<20	1000	20000	50000
Total Dissolved Solids	472	<5	4720	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.39
Conductivity (µS/cm)	667.00
Temperature (°C)	14.70
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	9.53
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.3
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002317
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	14.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.538
Loss on Ignition (%)	0.885
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	13.6
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.47
ANC to pH 6 (mol/kg)	0.197
ANC to pH 4 (mol/kg)	1.37

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0422	<0.0002	0.422	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00109	<0.0003	0.0109	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0207	<0.003	0.207	<0.03	0.5	10	30
Nickel	0.00109	<0.0004	0.0109	<0.004	0.4	10	40
Lead	0.000368	<0.0002	0.00368	<0.002	0.5	10	50
Antimony	0.00185	<0.001	0.0185	<0.01	0.06	0.7	5
Selenium	0.0282	<0.001	0.282	<0.01	0.1	0.5	7
Zinc	0.00154	<0.001	0.0154	<0.01	4	50	200
Chloride	198	<2	1980	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	55	<2	550	<20	1000	20000	50000
Total Dissolved Solids	538	<5	5380	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.75
Conductivity (µS/cm)	741.00
Temperature (°C)	15.40
Volume Leachant (Litres)	0.891

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.097	Natural Moisture Content (%)	7.18
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	93.3
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002318
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.645
Loss on Ignition (%)	1.28
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.44
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.36
ANC to pH 6 (mol/kg)	0.197
ANC to pH 4 (mol/kg)	1.44

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0304	<0.0002	0.304	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0252	<0.003	0.252	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00174	<0.001	0.0174	<0.01	0.06	0.7	5
Selenium	0.0282	<0.001	0.282	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	151	<2	1510	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	60.9	<2	609	<20	1000	20000	50000
Total Dissolved Solids	426	<5	4260	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.74
Conductivity (µS/cm)	550.00
Temperature (°C)	13.30
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.106	Natural Moisture Content (%)	17.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	85
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002319
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	0.00 - 0.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.747
Loss on Ignition (%)	10.3
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	30.1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.5
ANC to pH 6 (mol/kg)	0.0638
ANC to pH 4 (mol/kg)	0.205

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00876	<0.0005	0.0876	<0.005	0.5	2	25
Barium	0.00289	<0.0002	0.0289	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00857	<0.0003	0.0857	<0.003	2	50	100
Mercury Dissolved (CVAf)	0.0000295	<0.00001	0.000295	<0.0001	0.01	0.2	2
Molybdenum	0.0278	<0.003	0.278	<0.03	0.5	10	30
Nickel	0.00265	<0.0004	0.0265	<0.004	0.4	10	40
Lead	0.005	<0.0002	0.05	<0.002	0.5	10	50
Antimony	0.00249	<0.001	0.0249	<0.01	0.06	0.7	5
Selenium	0.00533	<0.001	0.0533	<0.01	0.1	0.5	7
Zinc	0.00259	<0.001	0.0259	<0.01	4	50	200
Chloride	2.4	<2	24	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	22.9	<2	229	<20	1000	20000	50000
Total Dissolved Solids	94	<5	940	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.57	<3	85.7	<30	500	800	1000

Leach Test Information

Date Prepared	02-Jan-2019
pH (pH Units)	8.89
Conductivity (µS/cm)	121.00
Temperature (°C)	15.00
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.116	Natural Moisture Content (%)	28.2
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	78
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002322
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	1.00 - 2.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.953
Loss on Ignition (%)	2.24
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	4110
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.5
ANC to pH 6 (mol/kg)	0.0533
ANC to pH 4 (mol/kg)	0.241

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.0044	<0.0005	0.044	<0.005	0.5	2	25
Barium	0.0065	<0.0002	0.065	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0385	<0.003	0.385	<0.03	0.5	10	30
Nickel	0.00179	<0.0004	0.0179	<0.004	0.4	10	40
Lead	0.000414	<0.0002	0.00414	<0.002	0.5	10	50
Antimony	0.00497	<0.001	0.0497	<0.01	0.06	0.7	5
Selenium	0.00137	<0.001	0.0137	<0.01	0.1	0.5	7
Zinc	0.00107	<0.001	0.0107	<0.01	4	50	200
Chloride	10.2	<2	102	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	60.6	<2	606	<20	1000	20000	50000
Total Dissolved Solids	192	<5	1920	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.7	<3	107	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.01
Conductivity (µS/cm)	257.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.875

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002324
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	2.00 - 3.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	4.78
Loss on Ignition (%)	6.52
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	362
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.86
ANC to pH 6 (mol/kg)	0.0559
ANC to pH 4 (mol/kg)	0.25

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00349	<0.0005	0.0349	<0.005	0.5	2	25
Barium	0.0115	<0.0002	0.115	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0315	<0.003	0.315	<0.03	0.5	10	30
Nickel	0.00128	<0.0004	0.0128	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00249	<0.001	0.0249	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00213	<0.001	0.0213	<0.01	4	50	200
Chloride	13.3	<2	133	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	73.4	<2	734	<20	1000	20000	50000
Total Dissolved Solids	253	<5	2530	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	10.5	<3	105	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.95
Conductivity (µS/cm)	330.00
Temperature (°C)	14.40
Volume Leachant (Litres)	0.870

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 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.127	Natural Moisture Content (%)	40.8
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	71
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002325
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	3.00 - 4.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	3.03
Loss on Ignition (%)	6.2
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	45.7
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.05
ANC to pH 6 (mol/kg)	0.0701
ANC to pH 4 (mol/kg)	0.369

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00357	<0.0005	0.0357	<0.005	0.5	2	25
Barium	0.0052	<0.0002	0.052	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.04	<0.003	0.4	<0.03	0.5	10	30
Nickel	0.0019	<0.0004	0.019	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00304	<0.001	0.0304	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00161	<0.001	0.0161	<0.01	4	50	200
Chloride	8.2	<2	82	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	58.3	<2	583	<20	1000	20000	50000
Total Dissolved Solids	243	<5	2430	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	13.4	<3	134	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.10
Conductivity (µS/cm)	317.00
Temperature (°C)	14.20
Volume Leachant (Litres)	0.863

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	181219-89	Site Location	City Block 9
Mass Sample taken (kg)	0.120	Natural Moisture Content (%)	33.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	75
Particle Size <4mm	>95%		

Case	181219-89
SDG	181219-89
Lab Sample Number(s)	19002326
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	4.00 - 5.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	7.17
Loss on Ignition (%)	5.29
Sum of BTEX (mg/kg)	<0.4
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	28.8
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	7.95
ANC to pH 6 (mol/kg)	0.0665
ANC to pH 4 (mol/kg)	0.28

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00235	<0.0005	0.0235	<0.005	0.5	2	25
Barium	0.00511	<0.0002	0.0511	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000449	<0.0003	0.00449	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0451	<0.003	0.451	<0.03	0.5	10	30
Nickel	0.00198	<0.0004	0.0198	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00324	<0.001	0.0324	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	6.7	<2	67	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	101	<2	1010	<20	1000	20000	50000
Total Dissolved Solids	302	<5	3020	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	14.3	<3	143	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.91
Conductivity (µS/cm)	415.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.870

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.100	Natural Moisture Content (%)	11
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.1
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002327
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	5.80 - 7.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.446
Loss on Ignition (%)	1.01
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.21
ANC to pH 6 (mol/kg)	0.0811
ANC to pH 4 (mol/kg)	0.305

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00127	<0.0005	0.0127	<0.005	0.5	2	25
Barium	0.00381	<0.0002	0.0381	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00708	<0.003	0.0708	<0.03	0.5	10	30
Nickel	0.000905	<0.0004	0.00905	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00174	<0.001	0.0174	<0.01	0.06	0.7	5
Selenium	0.00107	<0.001	0.0107	<0.01	0.1	0.5	7
Zinc	0.00153	<0.001	0.0153	<0.01	4	50	200
Chloride	3.9	<2	39	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	55.8	<2	558	<20	1000	20000	50000
Total Dissolved Solids	142	<5	1420	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.44
Conductivity (µS/cm)	187.00
Temperature (°C)	15.10
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.098	Natural Moisture Content (%)	9.41
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.4
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002328
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	8.00 - 10.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.595
Loss on Ignition (%)	1.1
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	5.59
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.93
ANC to pH 6 (mol/kg)	0.0829
ANC to pH 4 (mol/kg)	0.184

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00133	<0.0005	0.0133	<0.005	0.5	2	25
Barium	0.00646	<0.0002	0.0646	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000379	<0.0003	0.00379	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00962	<0.003	0.0962	<0.03	0.5	10	30
Nickel	0.000524	<0.0004	0.00524	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00178	<0.001	0.0178	<0.01	0.06	0.7	5
Selenium	0.00134	<0.001	0.0134	<0.01	0.1	0.5	7
Zinc	0.00204	<0.001	0.0204	<0.01	4	50	200
Chloride	8.2	<2	82	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	54.7	<2	547	<20	1000	20000	50000
Total Dissolved Solids	164	<5	1640	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.59
Conductivity (µS/cm)	216.00
Temperature (°C)	14.50
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location
Mass Sample taken (kg)	0.104	Natural Moisture Content (%)
Mass of dry sample (kg)	0.090	14.9
Particle Size <4mm	>95%	Dry Matter Content (%)
		87

Case	181219-89
SDG	181219-89
Lab Sample Number(s)	19002329
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	11.00 - 12.50

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.324
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.19
ANC to pH 6 (mol/kg)	0.0554
ANC to pH 4 (mol/kg)	0.116

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00141	<0.0005	0.0141	<0.005	0.5	2	25
Barium	0.0433	<0.0002	0.433	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00052	<0.0003	0.0052	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0132	<0.003	0.132	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.0011	<0.001	0.011	<0.01	0.06	0.7	5
Selenium	0.00694	<0.001	0.0694	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	244	<4	2440	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	41.4	<2	414	<20	1000	20000	50000
Total Dissolved Solids	649	<5	6490	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	9.40
Conductivity (µS/cm)	916.00
Temperature (°C)	15.80
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.3
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.7
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002330
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH204
Depth (m)	13.00 - 14.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.697
Loss on Ignition (%)	1.35
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	2.73
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.31
ANC to pH 6 (mol/kg)	0.339
ANC to pH 4 (mol/kg)	1.26

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.000702	<0.0005	0.00702	<0.005	0.5	2	25
Barium	0.0381	<0.0002	0.381	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.022	<0.003	0.22	<0.03	0.5	10	30
Nickel	0.00083	<0.0004	0.0083	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00196	<0.001	0.0196	<0.01	0.06	0.7	5
Selenium	0.0385	<0.001	0.385	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	165	<2	1650	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	66.2	<2	662	<20	1000	20000	50000
Total Dissolved Solids	465	<5	4650	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.17
Conductivity (µS/cm)	627.00
Temperature (°C)	14.20
Volume Leachant (Litres)	0.891

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	9.41
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	91.4
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002331
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	16.00 - 17.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	1.48
Loss on Ignition (%)	1.89
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	71.8
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.44
ANC to pH 6 (mol/kg)	0.11
ANC to pH 4 (mol/kg)	0.913

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0321	<0.0002	0.321	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0254	<0.003	0.254	<0.03	0.5	10	30
Nickel	0.00146	<0.0004	0.0146	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00186	<0.001	0.0186	<0.01	0.06	0.7	5
Selenium	0.0282	<0.001	0.282	<0.01	0.1	0.5	7
Zinc	0.00199	<0.001	0.0199	<0.01	4	50	200
Chloride	178	<2	1780	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	60.7	<2	607	<20	1000	20000	50000
Total Dissolved Solids	485	<5	4850	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.63
Conductivity (µS/cm)	657.00
Temperature (°C)	14.60
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

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CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		Site Location	City Block 9
Mass Sample taken (kg)	0.101	Natural Moisture Content (%)	12.4
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	89
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002332
Sampled Date	12-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	10.00 - 11.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	2.64
Loss on Ignition (%)	0.962
Sum of BTEX (mg/kg)	<0.04
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	9.48
ANC to pH 6 (mol/kg)	0.113
ANC to pH 4 (mol/kg)	0.343

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.00136	<0.0005	0.0136	<0.005	0.5	2	25
Barium	0.00811	<0.0002	0.0811	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00446	<0.003	0.0446	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.00214	<0.001	0.0214	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	99.2	<2	992	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	28	<2	280	<20	1000	20000	50000
Total Dissolved Solids	310	<5	3100	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.91
Conductivity (µS/cm)	421.00
Temperature (°C)	15.10
Volume Leachant (Litres)	0.889

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location
Mass Sample taken (kg)	0.107	Natural Moisture Content (%)
Mass of dry sample (kg)	0.090	19
Particle Size <4mm	>95%	Dry Matter Content (%)
		84

Case	181219-89
SDG	181219-89
Lab Sample Number(s)	19002333
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	11.00 - 12.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.516
Loss on Ignition (%)	0.756
Sum of BTEX (mg/kg)	<0.8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.73
ANC to pH 6 (mol/kg)	0.278
ANC to pH 4 (mol/kg)	1.62

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00129	<0.0005	0.0129	<0.005	0.5	2	25
Barium	0.0338	<0.0002	0.338	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00549	<0.003	0.0549	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	0.0142	<0.001	0.142	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	174	<2	1740	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	36	<2	360	<20	1000	20000	50000
Total Dissolved Solids	503	<5	5030	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	9.04
Conductivity (µS/cm)	682.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.124	Natural Moisture Content (%)	37
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	73
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002335
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	12.00 - 13.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.628
Loss on Ignition (%)	<0.7
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	<1
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.5
ANC to pH 6 (mol/kg)	0.395
ANC to pH 4 (mol/kg)	1.04

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Arsenic	0.000675	<0.0005	0.00675	<0.005	0.5	2	25
Barium	0.0384	<0.0002	0.384	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0198	<0.003	0.198	<0.03	0.5	10	30
Nickel	0.000632	<0.0004	0.00632	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00214	<0.001	0.0214	<0.01	0.06	0.7	5
Selenium	0.0234	<0.001	0.234	<0.01	0.1	0.5	7
Zinc	0.0105	<0.001	0.105	<0.01	4	50	200
Chloride	228	<4	2280	<40	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	83.2	<2	832	<20	1000	20000	50000
Total Dissolved Solids	684	<5	6840	<50	4000	60000	100000
Total Monohydric Phenols (W)	0.03	<0.016	0.3	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	7.99
Conductivity (µS/cm)	923.00
Temperature (°C)	14.50
Volume Leachant (Litres)	0.867

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.095	Natural Moisture Content (%)	5.49
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	94.8
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002336
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	13.00 - 15.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.525
Loss on Ignition (%)	1.61
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	12.3
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.36
ANC to pH 6 (mol/kg)	0.214
ANC to pH 4 (mol/kg)	1.24

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000653	<0.0005	0.00653	<0.005	0.5	2	25
Barium	0.0332	<0.0002	0.332	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0214	<0.003	0.214	<0.03	0.5	10	30
Nickel	0.000915	<0.0004	0.00915	<0.004	0.4	10	40
Lead	0.000324	<0.0002	0.00324	<0.002	0.5	10	50
Antimony	0.00183	<0.001	0.0183	<0.01	0.06	0.7	5
Selenium	0.0268	<0.001	0.268	<0.01	0.1	0.5	7
Zinc	0.00285	<0.001	0.0285	<0.01	4	50	200
Chloride	156	<2	1560	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	57.3	<2	573	<20	1000	20000	50000
Total Dissolved Solids	441	<5	4410	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.01
Conductivity (µS/cm)	594.00
Temperature (°C)	15.10
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
 Mcerts Certification does not apply to leachates

19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	City Block 9	Site Location	City Block 9
Mass Sample taken (kg)	0.099	Natural Moisture Content (%)	10.6
Mass of dry sample (kg)	0.090	Dry Matter Content (%)	90.4
Particle Size <4mm	>95%		

Case	
SDG	181219-89
Lab Sample Number(s)	19002337
Sampled Date	14-Dec-2018
Customer Sample Ref.	BH210
Depth (m)	15.00 - 16.00

Landfill Waste Acceptance Criteria Limits

Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
3	5	6
-	-	10
6	-	-
1	-	-
500	-	-
100	-	-
-	>6	-
-	-	-
-	-	-

Solid Waste Analysis	Result
Total Organic Carbon (%)	0.721
Loss on Ignition (%)	1.99
Sum of BTEX (mg/kg)	<8
Sum of 7 PCBs (mg/kg)	<0.021
Mineral Oil (mg/kg)	14.2
PAH Sum of 17 (mg/kg)	<10
pH (pH Units)	8.28
ANC to pH 6 (mol/kg)	0.129
ANC to pH 4 (mol/kg)	1.42

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection	3	5	6
Arsenic	0.000606	<0.0005	0.00606	<0.005	0.5	2	25
Barium	0.0355	<0.0002	0.355	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	<0.0003	<0.0003	<0.003	<0.003	2	50	100
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.0238	<0.003	0.238	<0.03	0.5	10	30
Nickel	0.00102	<0.0004	0.0102	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	0.00188	<0.001	0.0188	<0.01	0.06	0.7	5
Selenium	0.0285	<0.001	0.285	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	156	<2	1560	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	58.8	<2	588	<20	1000	20000	50000
Total Dissolved Solids	427	<5	4270	<50	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	29-Dec-2018
pH (pH Units)	8.51
Conductivity (µS/cm)	601.00
Temperature (°C)	15.20
Volume Leachant (Litres)	0.890

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
 Stated limits are for guidance only and ALS Environmental cannot be held responsible for any discrepancies with current legislation
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19/01/2019 11:47:20



CERTIFICATE OF ANALYSIS

Validated

SDG:	181219-89	Client Reference:	602387	Report Number:	489223
Location:	City Block 9	Order Number:	P2021550	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM182	CEN/TC 292 - WI 292046-characterization of waste-leaching Behaviour Tests- Acid and Base Neutralization Capacity Test	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC
TM410	Shaker extraction-In house coronene method	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19002305	19002307	19002308	19002309	19002298	19002299	19002300	19002301	19002312	19002313
	BH201	BH201	BH201	BH201	BH202	BH202	BH202	BH202	BH203	BH203
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	13.00 - 14.00	14.00 - 15.00	15.00 - 17.00	11.50 - 13.00	10.00 - 12.00	13.00 - 14.00
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	04-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019	04-Jan-2019	02-Jan-2019	02-Jan-2019	02-Jan-2019
Anions by Kone (w)	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Asbestos ID in Solid Samples	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
CEN 10:1 Leachate (1 Stage)	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	02-Jan-2019	02-Jan-2019	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018
CEN Readings	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Coronene	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Dissolved Metals by ICP-MS	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Dissolved Organic/Inorganic Carbon	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019
EPH CWG (Aliphatic) GC (S)	05-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019
EPH CWG (Aromatic) GC (S)	05-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019
Fluoride	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
GRO by GC-FID (S)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019	08-Jan-2019
Hexavalent Chromium (s)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Loss on Ignition in soils	08-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Mercury Dissolved	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Metals in solid samples by OES	03-Jan-2019	03-Jan-2019	04-Jan-2019	08-Jan-2019	03-Jan-2019	03-Jan-2019	07-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019
Mineral Oil	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
PAH 16 & 17 Calc	08-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
PAH by GCMS	08-Jan-2019	04-Jan-2019	08-Jan-2019	04-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
PCBs by GCMS	03-Jan-2019	31-Dec-2018	03-Jan-2019	08-Jan-2019	31-Dec-2018	03-Jan-2019	08-Jan-2019	08-Jan-2019	03-Jan-2019	08-Jan-2019
pH	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	11-Jan-2019	12-Jan-2019	14-Jan-2019	12-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019
Phenols by HPLC (W)	09-Jan-2019	09-Jan-2019	10-Jan-2019	11-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	10-Jan-2019	09-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Total Organic Carbon	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
TPH CWG GC (S)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019	08-Jan-2019
VOC MS (S)	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	08-Jan-2019	10-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019	08-Jan-2019

Lab Sample No(s) Customer Sample Ref.	19002314	19002315	19002317	19002318	19002319	19002322	19002324	19002325	19002326	19002327
	BH203	BH203	BH204	BH204	BH204	BH204	BH204	BH204	BH204	BH204
	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.	AGS Ref.
	14.00 - 15.00	15.00 - 16.00	14.00 - 15.00	16.00 - 17.00	0.00 - 0.50	1.00 - 2.00	2.00 - 3.00	3.00 - 4.00	4.00 - 5.00	5.80 - 7.00
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
ANC at pH4 and ANC at pH 6	04-Jan-2019	02-Jan-2019	04-Jan-2019	04-Jan-2019	02-Jan-2019	02-Jan-2019	04-Jan-2019	04-Jan-2019	02-Jan-2019	04-Jan-2019
Anions by Kone (w)	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Asbestos ID in Solid Samples	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
CEN 10:1 Leachate (1 Stage)	02-Jan-2019	29-Dec-2018	02-Jan-2019	02-Jan-2019	02-Jan-2019	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018
CEN Readings	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Coronene	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Dissolved Metals by ICP-MS	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
Dissolved Organic/Inorganic Carbon	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019
EPH CWG (Aliphatic) GC (S)	05-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019
EPH CWG (Aromatic) GC (S)	05-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019
Fluoride	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
GRO by GC-FID (S)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
Hexavalent Chromium (s)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Loss on Ignition in soils	08-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019
Mercury Dissolved	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Metals in solid samples by OES	08-Jan-2019	03-Jan-2019	08-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	08-Jan-2019	08-Jan-2019	03-Jan-2019	08-Jan-2019
Mineral Oil	07-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	07-Jan-2019	07-Jan-2019
PAH 16 & 17 Calc	08-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	08-Jan-2019	08-Jan-2019
PAH by GCMS	08-Jan-2019	08-Jan-2019	04-Jan-2019	04-Jan-2019	08-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	08-Jan-2019	08-Jan-2019
PCBs by GCMS	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	02-Jan-2019	02-Jan-2019	04-Jan-2019	03-Jan-2019	08-Jan-2019	04-Jan-2019
pH	03-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019	11-Jan-2019
Phenols by HPLC (W)	10-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019	09-Jan-2019	09-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Total Organic Carbon	03-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019	03-Jan-2019
TPH CWG GC (S)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	05-Jan-2019
VOC MS (S)	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	05-Jan-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89	Client Reference: 602387	Report Number: 489223	
Location: City Block 9	Order Number: P2021550	Superseded Report:	

Lab Sample No(s)	19002328	19002329	19002330	19002291	19002292	19002294	19002331	19002332	19002333	19002335
Customer Sample Ref.	BH204	BH204	BH204	BH205	BH205	BH205	BH210	BH210	BH210	BH210
AGS Ref.										
Depth	8.00 - 10.00	11.00 - 12.50	13.00 - 14.00	10.00 - 12.00	13.00 - 14.00	14.00 - 16.00	16.00 - 17.00	10.00 - 11.00	11.00 - 12.00	12.00 - 13.00
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)

ANC at pH4 and ANC at pH 6	04-Jan-2019	04-Jan-2019	02-Jan-2019	17-Jan-2019	16-Jan-2019	17-Jan-2019	02-Jan-2019	04-Jan-2019	04-Jan-2019	02-Jan-2019
Anions by Kone (w)	07-Jan-2019	07-Jan-2019	07-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Asbestos ID in Solid Samples	03-Jan-2019	03-Jan-2019	03-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019	03-Jan-2019
CEN 10:1 Leachate (1 Stage)	29-Dec-2018	29-Dec-2018	29-Dec-2018	12-Jan-2019	12-Jan-2019	12-Jan-2019	29-Dec-2018	29-Dec-2018	29-Dec-2018	29-Dec-2018
CEN Readings	04-Jan-2019	04-Jan-2019	04-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Coronene	07-Jan-2019	07-Jan-2019	07-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Dissolved Metals by ICP-MS	07-Jan-2019	07-Jan-2019	04-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	07-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Dissolved Organic/Inorganic Carbon	07-Jan-2019	07-Jan-2019	05-Jan-2019	18-Jan-2019	18-Jan-2019	18-Jan-2019	07-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
EPH CWG (Aliphatic) GC (S)	05-Jan-2019	05-Jan-2019	07-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019
EPH CWG (Aromatic) GC (S)	05-Jan-2019	05-Jan-2019	07-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	07-Jan-2019	05-Jan-2019	07-Jan-2019	05-Jan-2019
Fluoride	05-Jan-2019	05-Jan-2019	05-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019	05-Jan-2019
GRO by GC-FID (S)	10-Jan-2019	10-Jan-2019	31-Dec-2018	17-Jan-2019	17-Jan-2019	17-Jan-2019	11-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019
Hexavalent Chromium (s)	08-Jan-2019	08-Jan-2019	08-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019
Loss on Ignition in soils	08-Jan-2019	07-Jan-2019	07-Jan-2019	15-Jan-2019	15-Jan-2019	14-Jan-2019	04-Jan-2019	08-Jan-2019	10-Jan-2019	07-Jan-2019
Mercury Dissolved	08-Jan-2019	07-Jan-2019	07-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	08-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019
Metals in solid samples by OES	08-Jan-2019	03-Jan-2019	03-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	04-Jan-2019	07-Jan-2019	03-Jan-2019	03-Jan-2019
Mineral Oil	04-Jan-2019	07-Jan-2019	07-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	07-Jan-2019	07-Jan-2019	07-Jan-2019	04-Jan-2019
PAH 16 & 17 Calc	07-Jan-2019	08-Jan-2019	09-Jan-2019	17-Jan-2019	16-Jan-2019	17-Jan-2019	09-Jan-2019	08-Jan-2019	08-Jan-2019	07-Jan-2019
PAH by GCMS	04-Jan-2019	08-Jan-2019	08-Jan-2019	16-Jan-2019	16-Jan-2019	16-Jan-2019	08-Jan-2019	08-Jan-2019	08-Jan-2019	04-Jan-2019
PCBs by GCMS	04-Jan-2019	03-Jan-2019	03-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	08-Jan-2019	04-Jan-2019	03-Jan-2019	03-Jan-2019
pH	04-Jan-2019	03-Jan-2019	03-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	03-Jan-2019
Phenols by HPLC (S)	11-Jan-2019	11-Jan-2019	11-Jan-2019	17-Jan-2019	17-Jan-2019	19-Jan-2019	11-Jan-2019	11-Jan-2019	12-Jan-2019	11-Jan-2019
Phenols by HPLC (W)	09-Jan-2019	09-Jan-2019	09-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	09-Jan-2019	09-Jan-2019	09-Jan-2019	10-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018	21-Dec-2018	11-Jan-2019	11-Jan-2019	11-Jan-2019	21-Dec-2018	21-Dec-2018	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	04-Jan-2019	04-Jan-2019	04-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019	04-Jan-2019
Total Organic Carbon	03-Jan-2019	04-Jan-2019	04-Jan-2019	16-Jan-2019	16-Jan-2019	15-Jan-2019	04-Jan-2019	03-Jan-2019	04-Jan-2019	04-Jan-2019
TPH CWG GC (S)	10-Jan-2019	10-Jan-2019	07-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	11-Jan-2019	10-Jan-2019	11-Jan-2019	11-Jan-2019
VOC MS (S)	08-Jan-2019	08-Jan-2019	02-Jan-2019	17-Jan-2019	17-Jan-2019	17-Jan-2019	09-Jan-2019	08-Jan-2019	09-Jan-2019	09-Jan-2019

Lab Sample No(s)	19002336	19002337
Customer Sample Ref.	BH210	BH210
AGS Ref.		
Depth	13.00 - 15.00	15.00 - 16.00
Type	Soil/Solid (S)	Soil/Solid (S)

ANC at pH4 and ANC at pH 6	04-Jan-2019	04-Jan-2019
Anions by Kone (w)	07-Jan-2019	07-Jan-2019
Asbestos ID in Solid Samples	03-Jan-2019	03-Jan-2019
CEN 10:1 Leachate (1 Stage)	29-Dec-2018	29-Dec-2018
CEN Readings	04-Jan-2019	04-Jan-2019
Coronene	07-Jan-2019	07-Jan-2019
Dissolved Metals by ICP-MS	04-Jan-2019	04-Jan-2019
Dissolved Organic/Inorganic Carbon	05-Jan-2019	07-Jan-2019
EPH CWG (Aliphatic) GC (S)	07-Jan-2019	07-Jan-2019
EPH CWG (Aromatic) GC (S)	07-Jan-2019	07-Jan-2019
Fluoride	05-Jan-2019	05-Jan-2019
GRO by GC-FID (S)	11-Jan-2019	11-Jan-2019
Hexavalent Chromium (s)	08-Jan-2019	08-Jan-2019
Loss on Ignition in soils	10-Jan-2019	04-Jan-2019
Mercury Dissolved	07-Jan-2019	07-Jan-2019
Metals in solid samples by OES	08-Jan-2019	08-Jan-2019
Mineral Oil	07-Jan-2019	07-Jan-2019
PAH 16 & 17 Calc	09-Jan-2019	08-Jan-2019
PAH by GCMS	08-Jan-2019	08-Jan-2019
PCBs by GCMS	08-Jan-2019	03-Jan-2019
pH	04-Jan-2019	04-Jan-2019
Phenols by HPLC (S)	11-Jan-2019	11-Jan-2019
Phenols by HPLC (W)	09-Jan-2019	09-Jan-2019
Sample description	21-Dec-2018	21-Dec-2018
Total Dissolved Solids	04-Jan-2019	04-Jan-2019
Total Organic Carbon	04-Jan-2019	04-Jan-2019
TPH CWG GC (S)	11-Jan-2019	11-Jan-2019
VOC MS (S)	09-Jan-2019	09-Jan-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

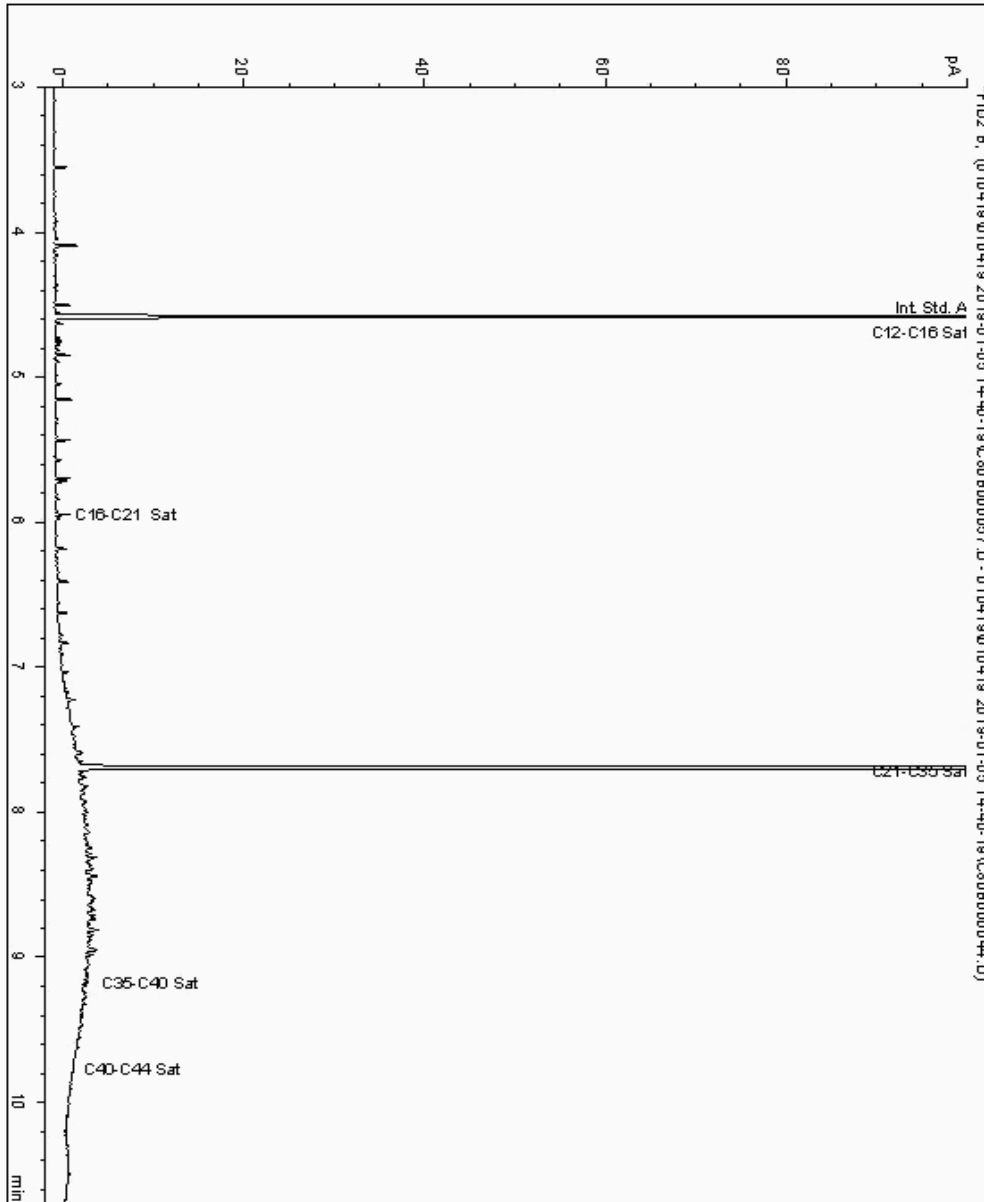
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019470
Sample ID : BH201

Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868610-
Date Acquired : 05/01/19 19:43:41
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

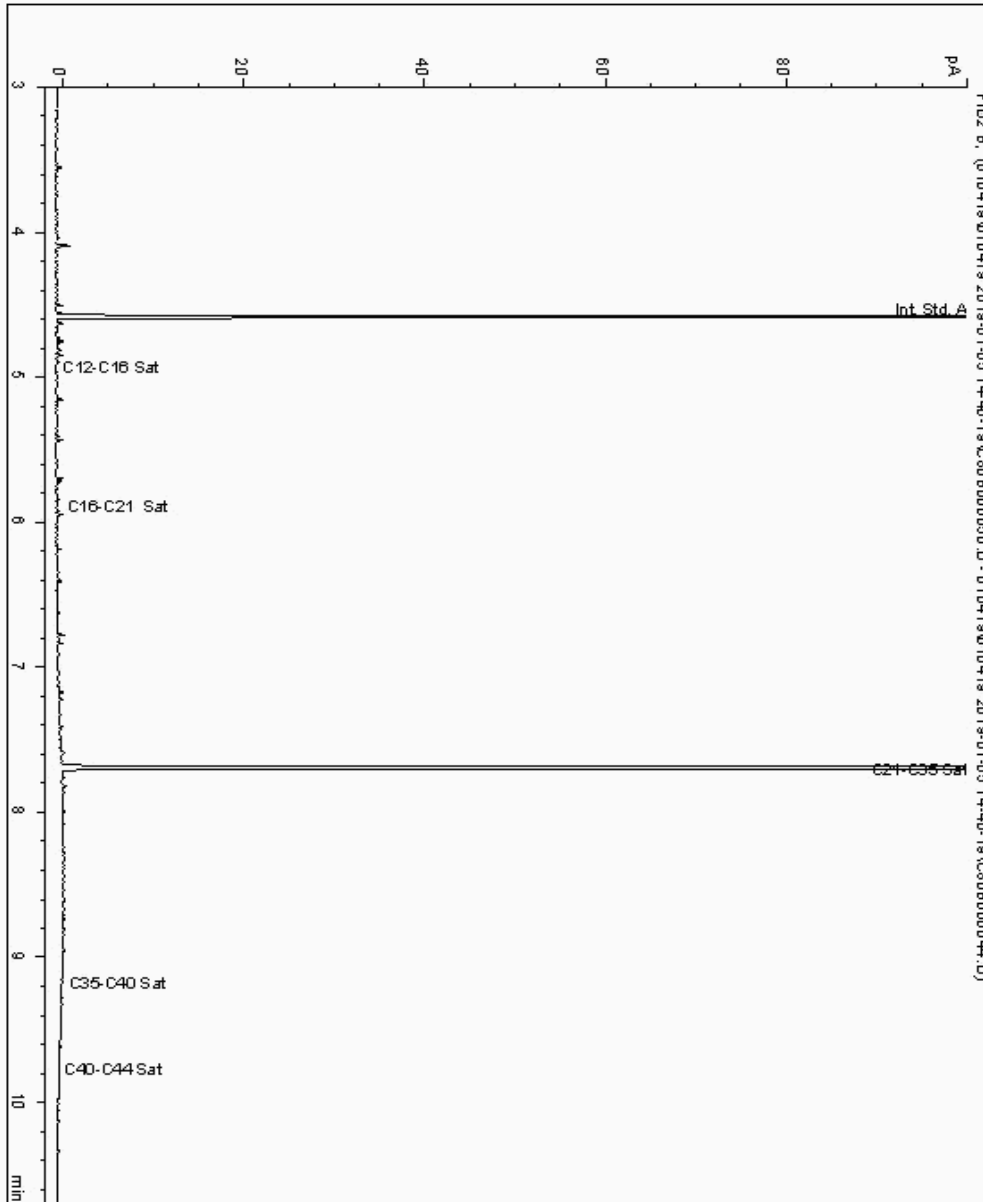
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019506
Sample ID : BH202

Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868391-
Date Acquired : 05/01/19 17:40:48
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

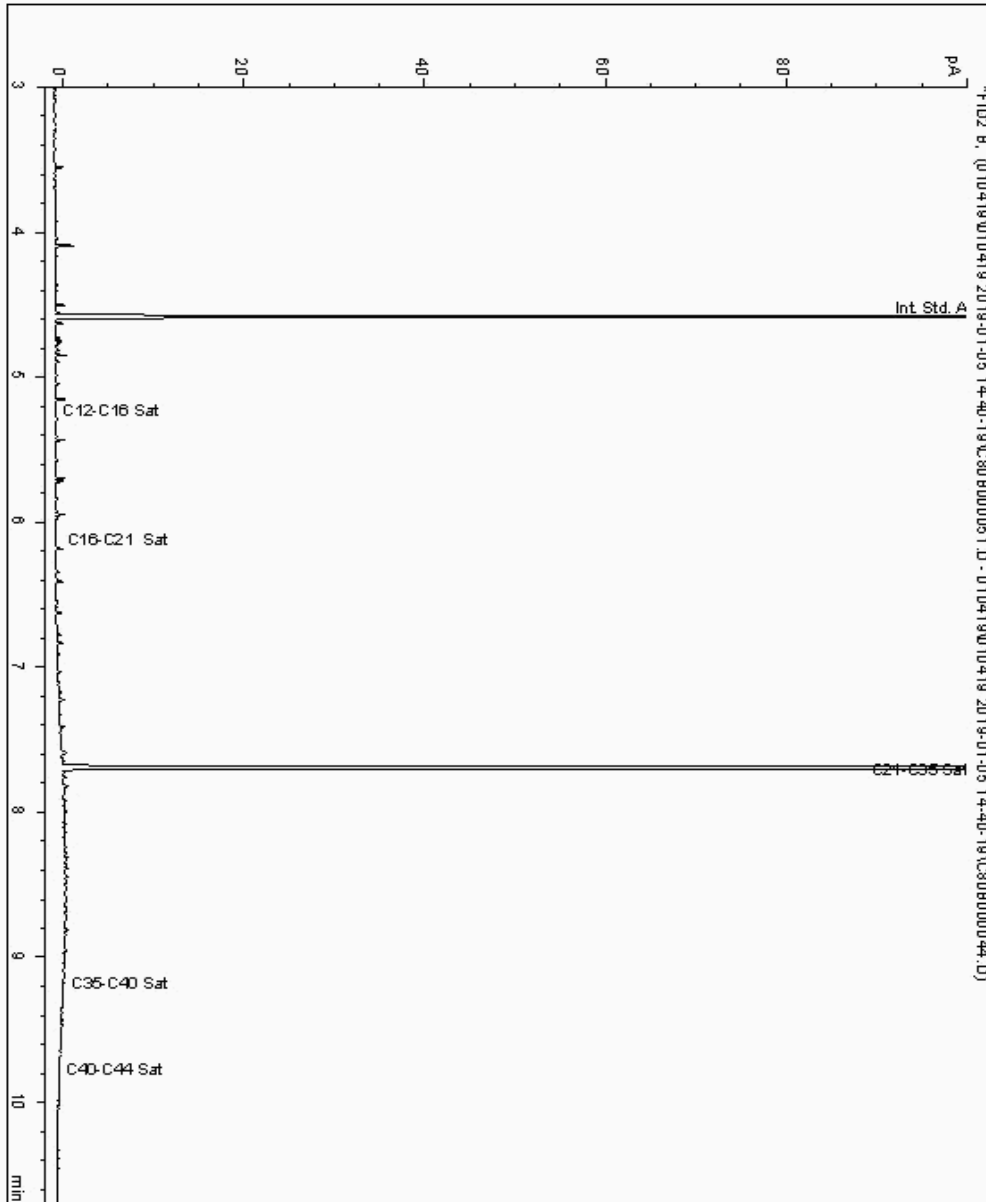
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019604
Sample ID : BH202

Depth : 14.00 - 15.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868445-
Date Acquired : 05/01/19 18:00:34
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

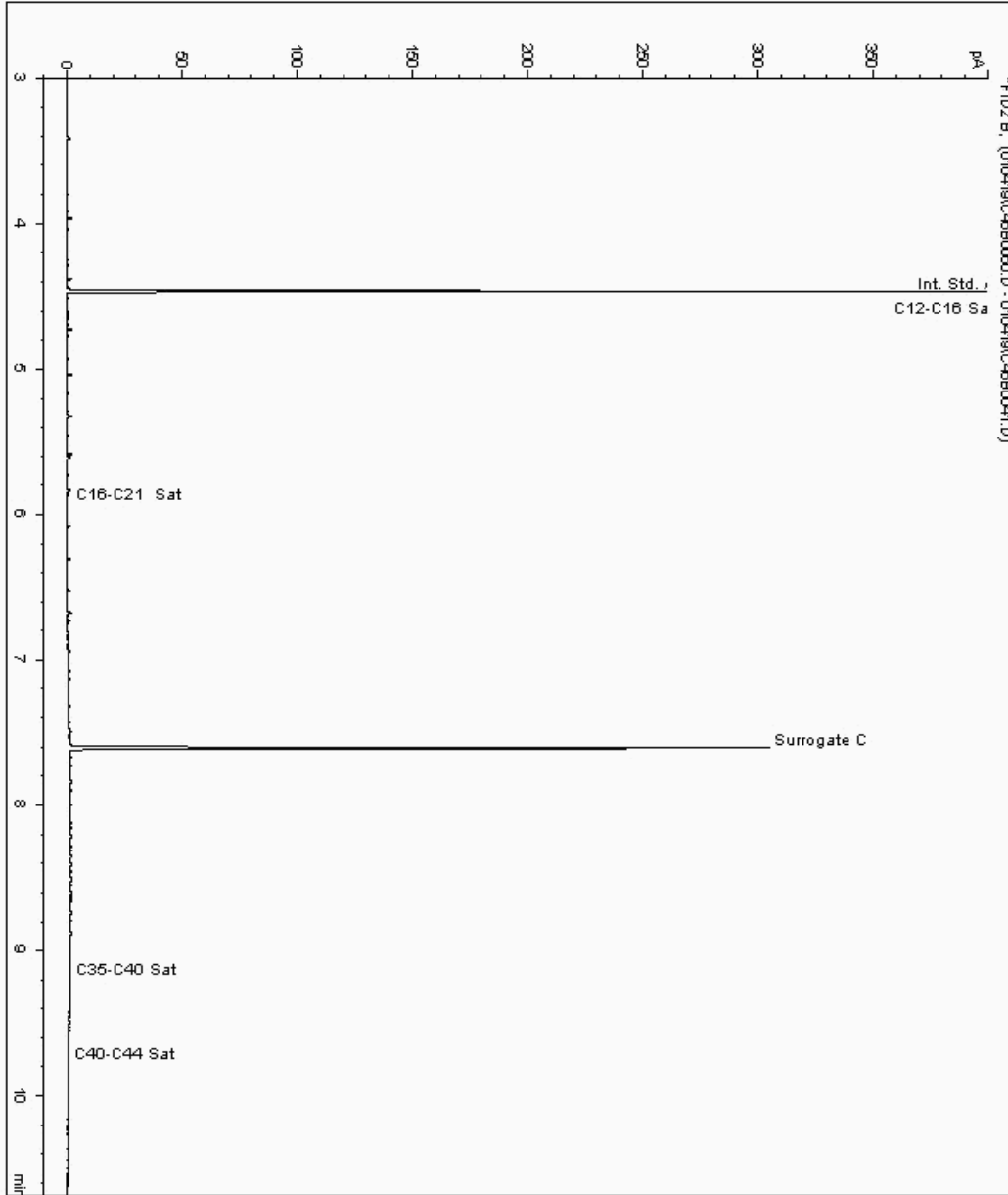
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019606
Sample ID : BH201

Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868563-
Date Acquired : 05/01/2019 04:37:31 PM
Units : ppb
Dilution: BH201[15.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

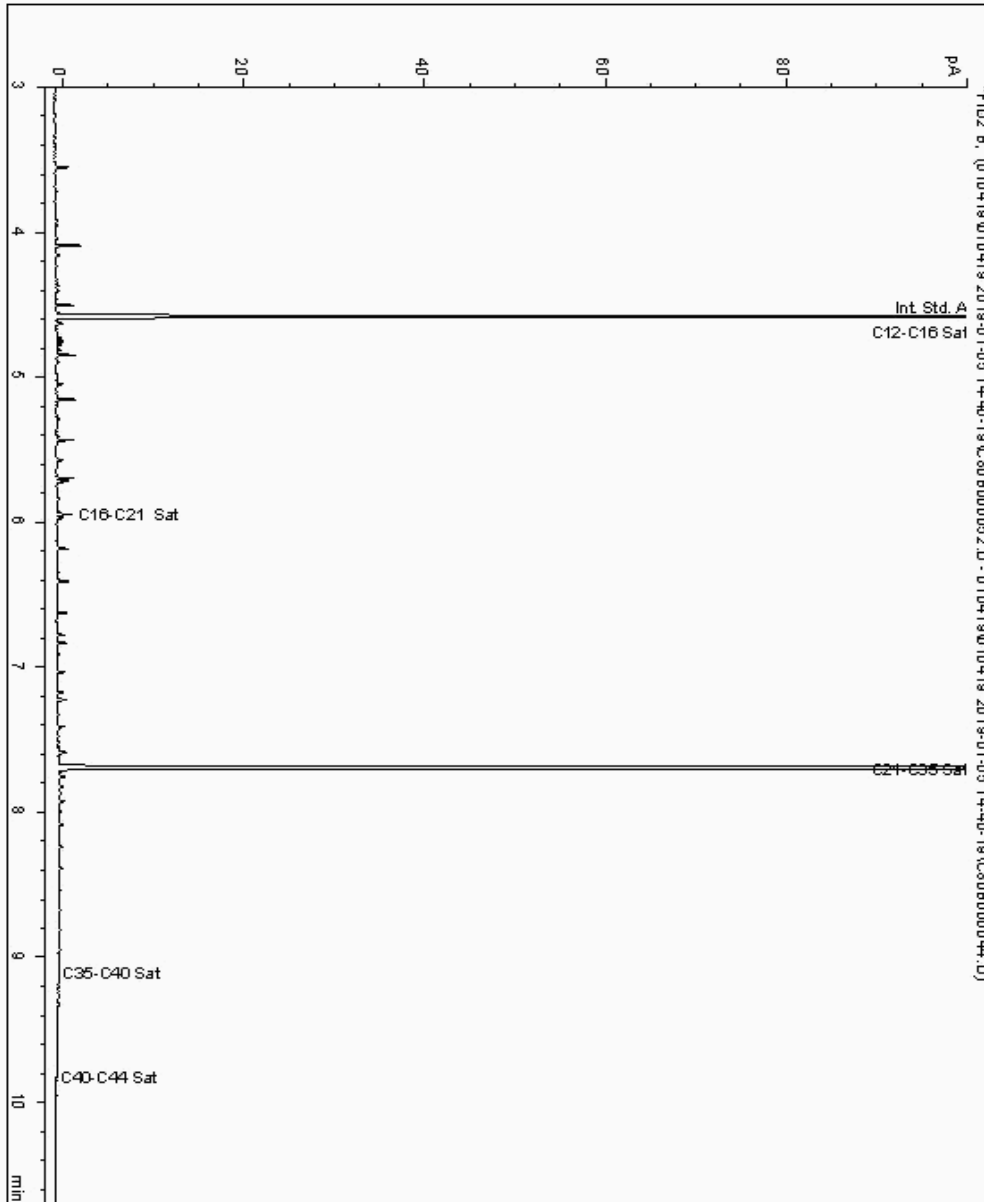
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019701
Sample ID : BH204

Depth : 16.00 - 17.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868958-
Date Acquired : 05/01/19 18:20:19
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

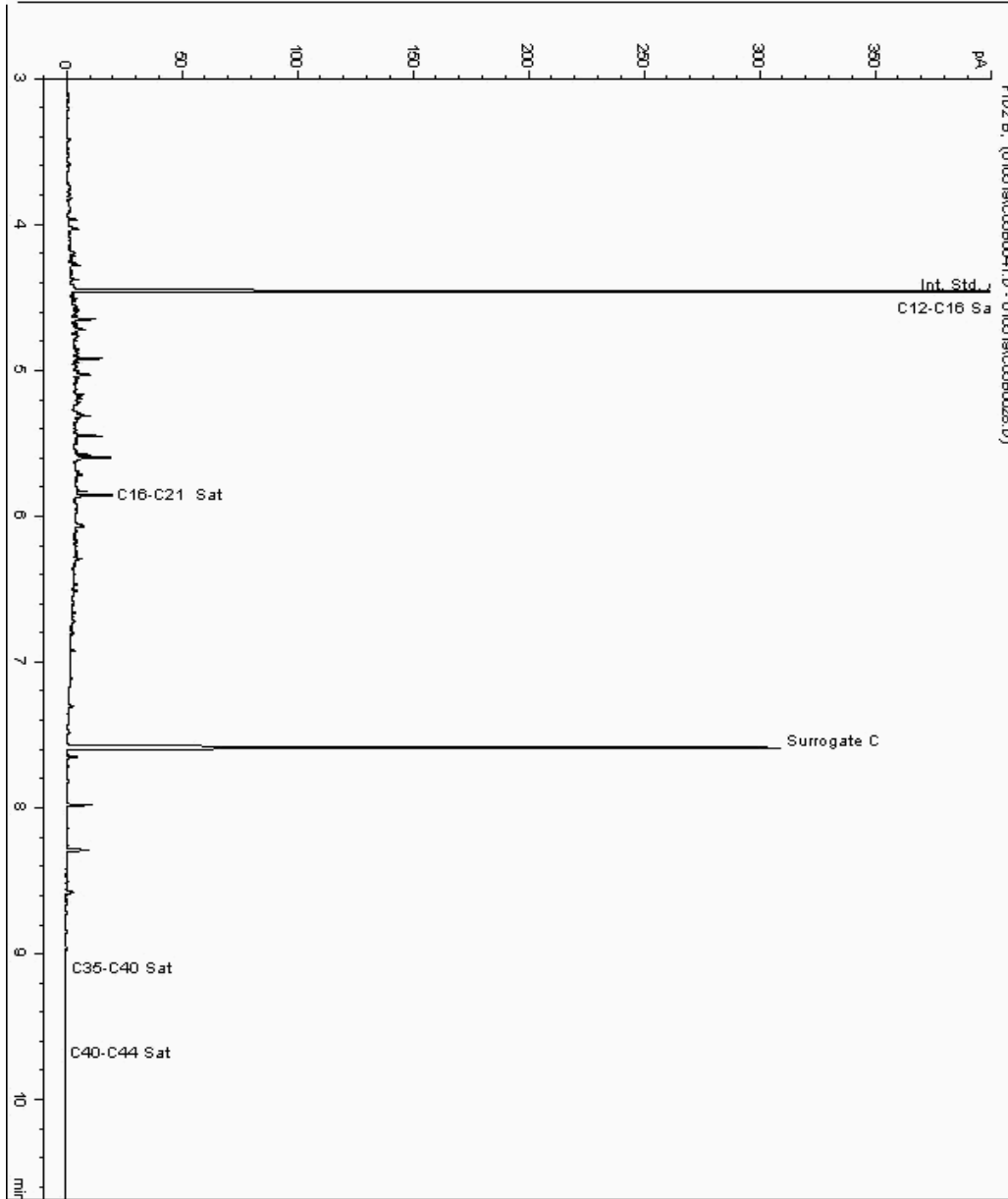
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019702
Sample ID : BH204

Depth : 3.00 - 4.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869186-
Date Acquired : 05/01/2019 21:09:20 PM
Units : ppb
Dilution: BH204[3.00 - 4.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

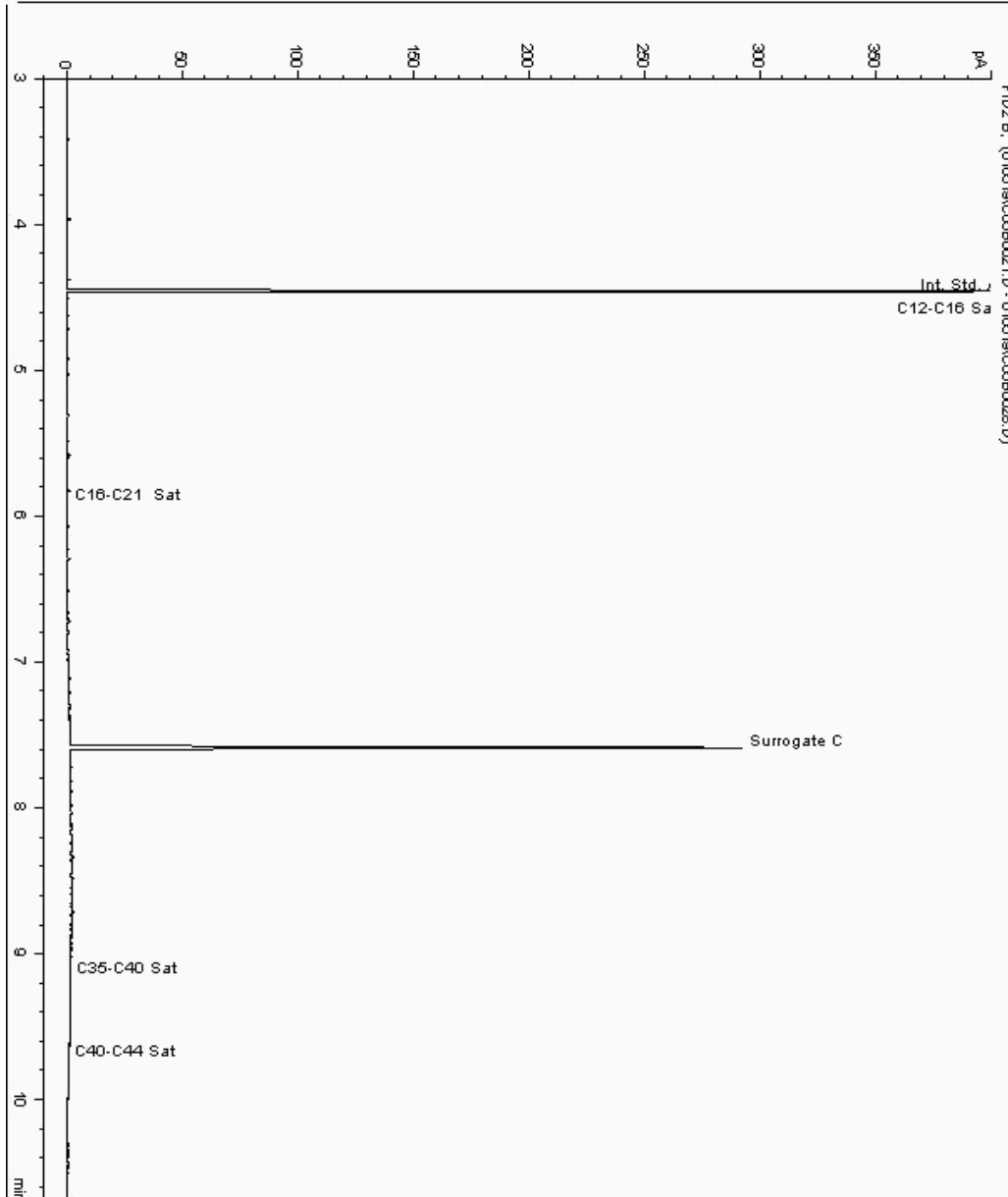
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019733
Sample ID : BH210

Depth : 16.00 - 17.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869412-
Date Acquired : 05/01/2019 15:44:20 PM
Units : ppb
Dilution: BH210[16.00 - 17.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

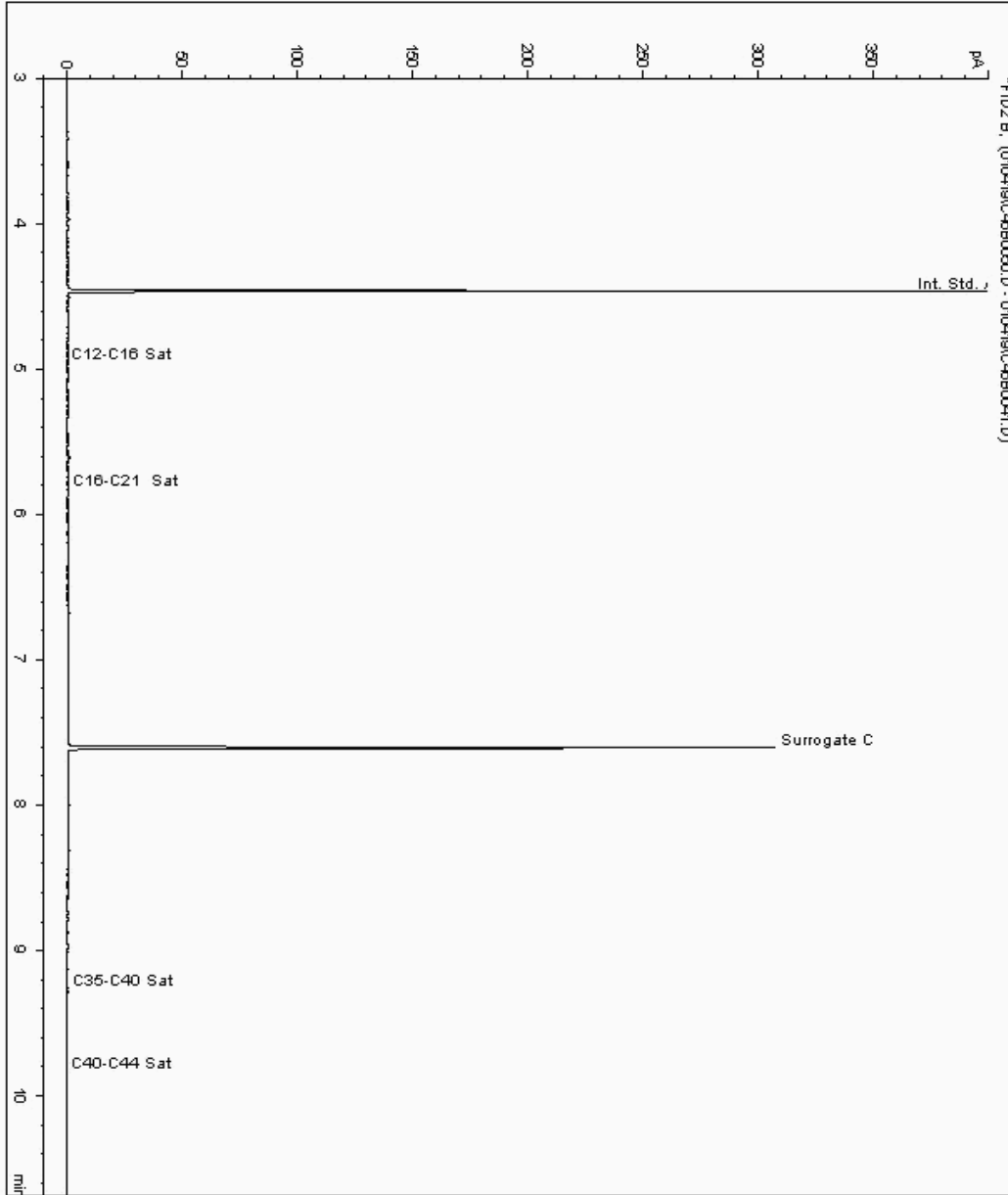
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019788
Sample ID : BH204

Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869024-
Date Acquired : 05/01/2019 01:34:32 PM
Units : ppb
Dilution: BH204[0.00 - 0.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

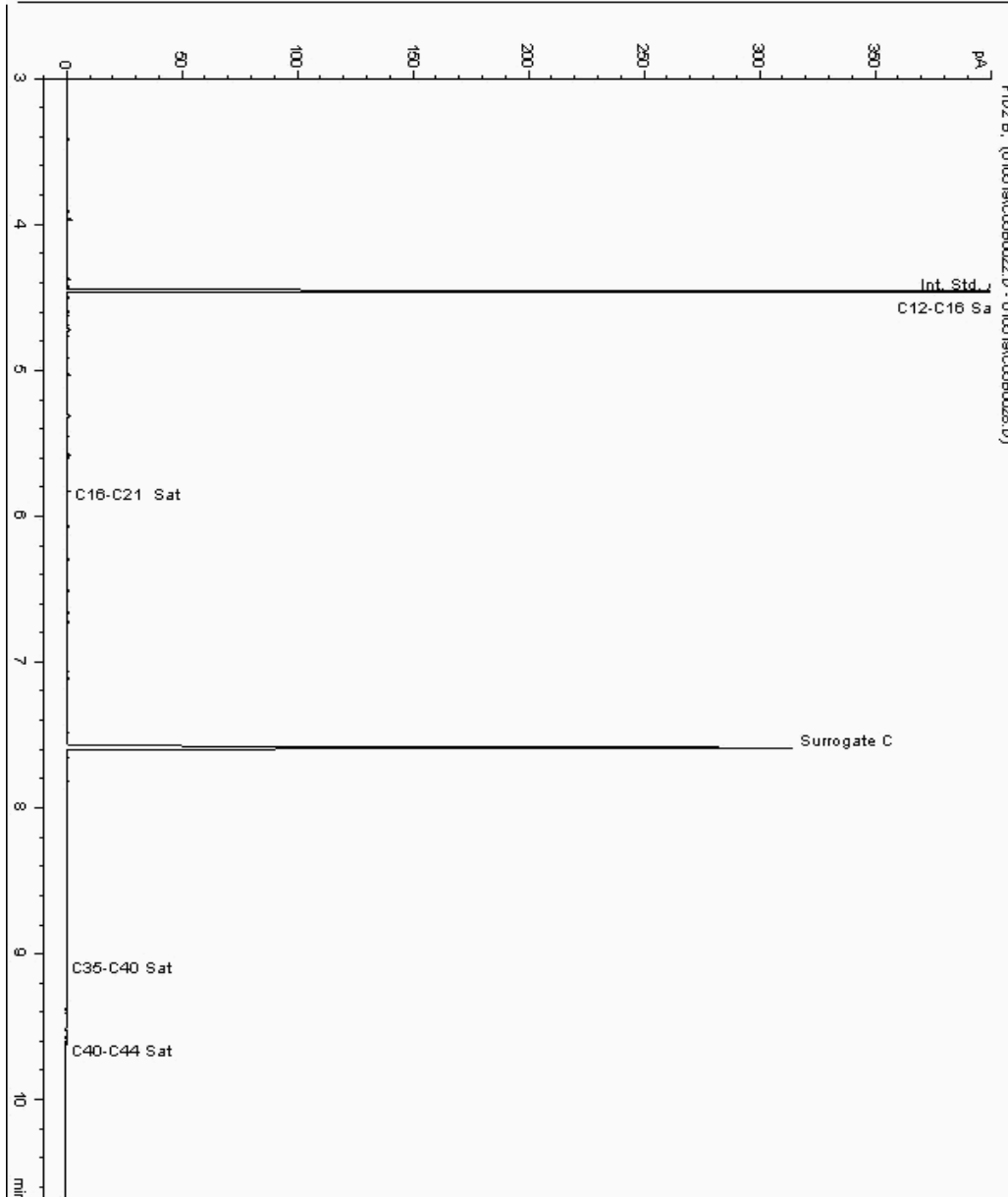
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019851
Sample ID : BH210

Depth : 13.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869498-
Date Acquired : 05/01/2019 16:04:15 PM
Units : ppb
Dilution: BH210[13.00 - 15.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

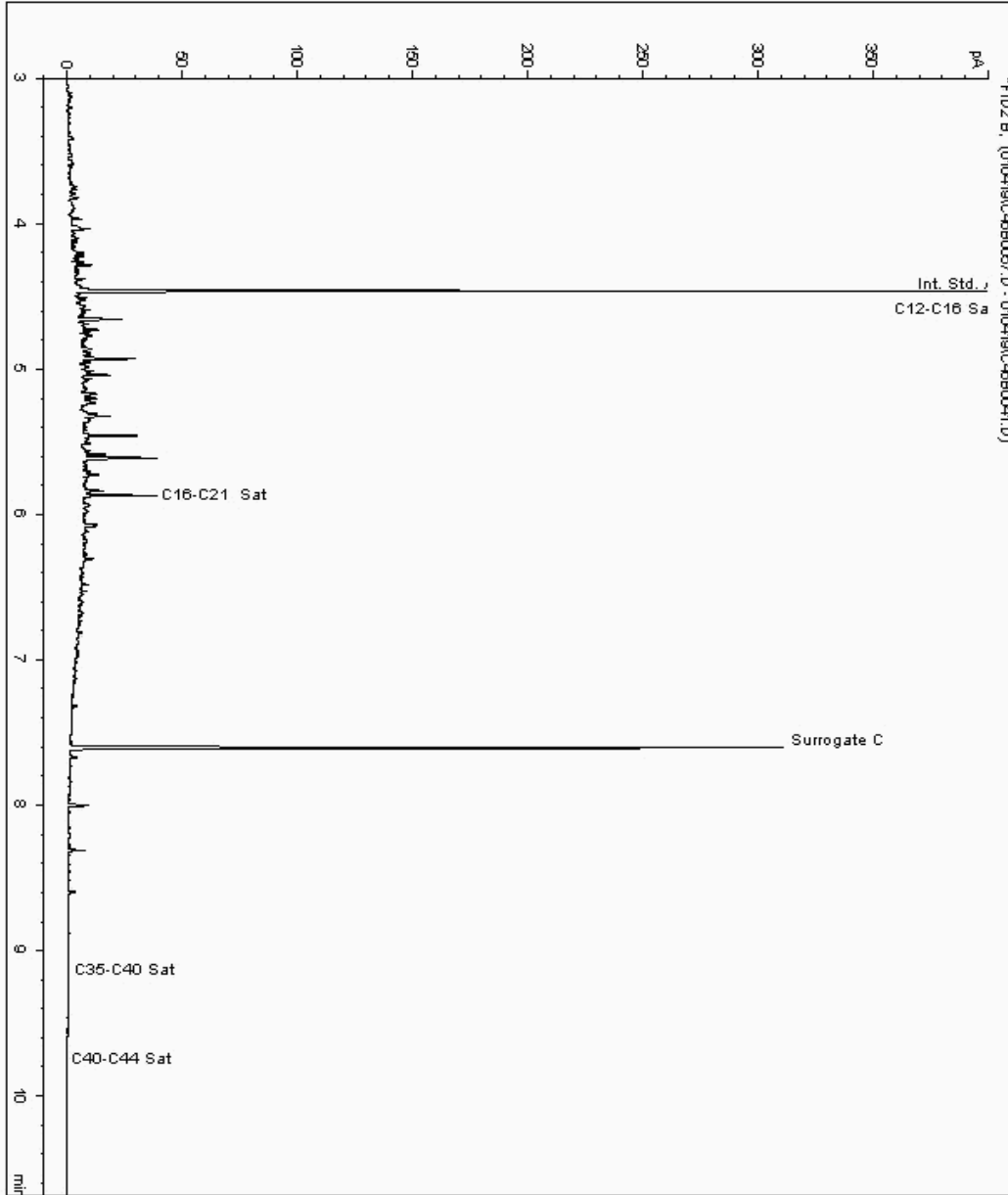
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019962
Sample ID : BH204

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869134-
Date Acquired : 05/01/2019 03:45:40 PM
Units : ppb
Dilution: BH204[2.00 - 3.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

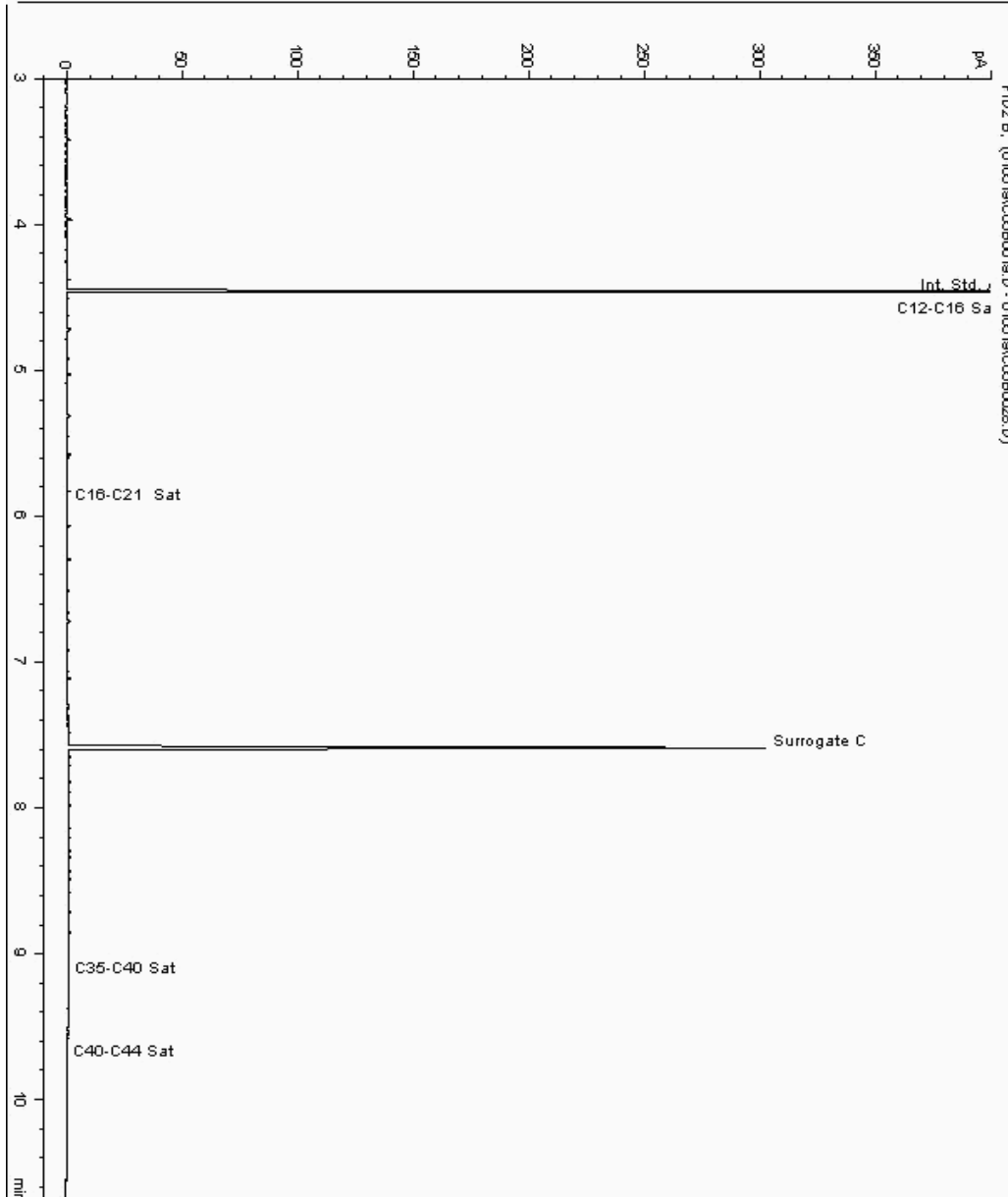
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19019968
Sample ID : BH210

Depth : 15.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869520-
Date Acquired : 05/01/2019 15:04:33 PM
Units : ppb
Dilution: BH210[15.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

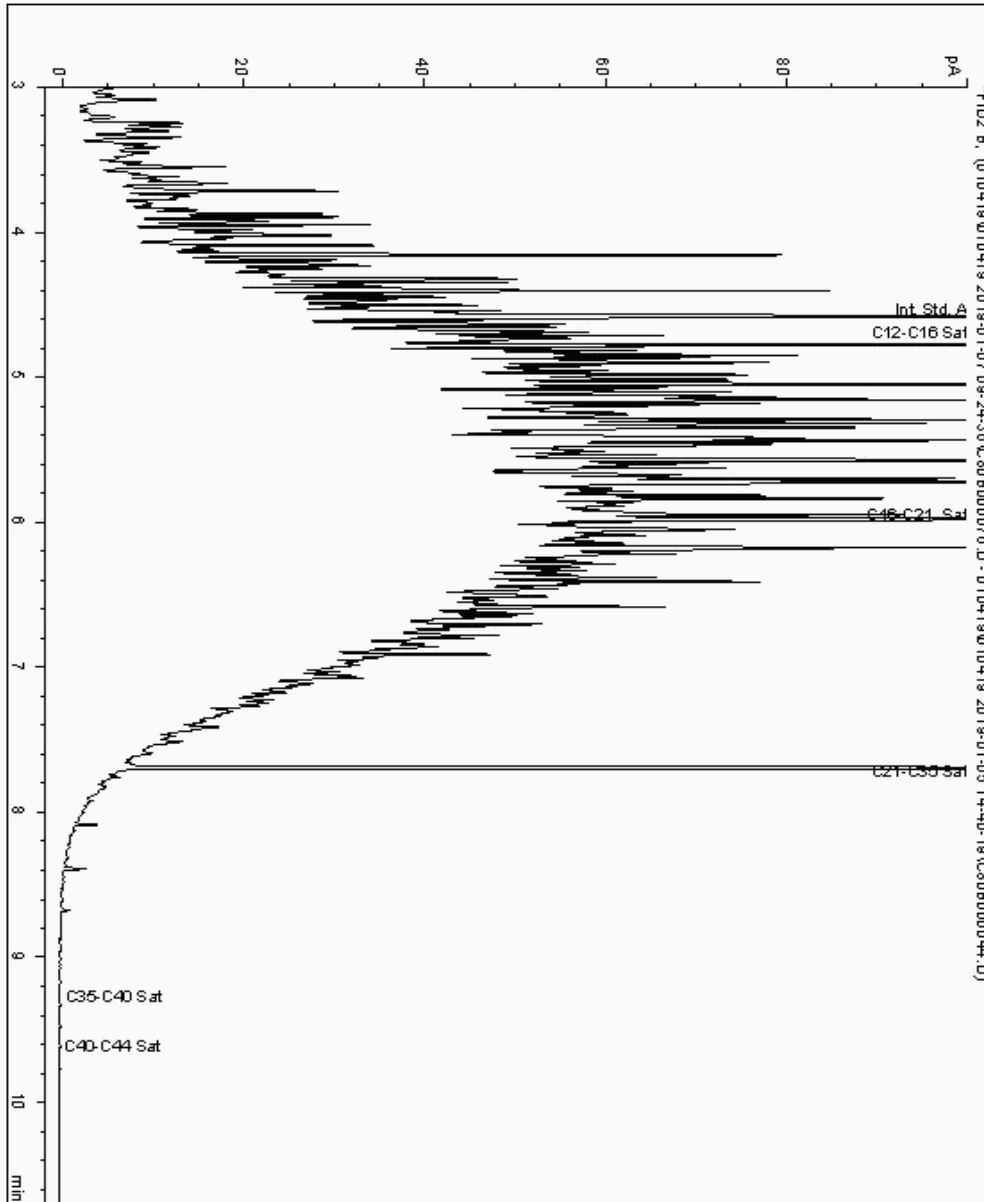
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020065
Sample ID : BH204

Depth : 1.00 - 2.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869105-
Date Acquired : 07/01/19 10:27:48
Units : ppb
Dilution :
CF : 1
Multiplier : 2.070





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

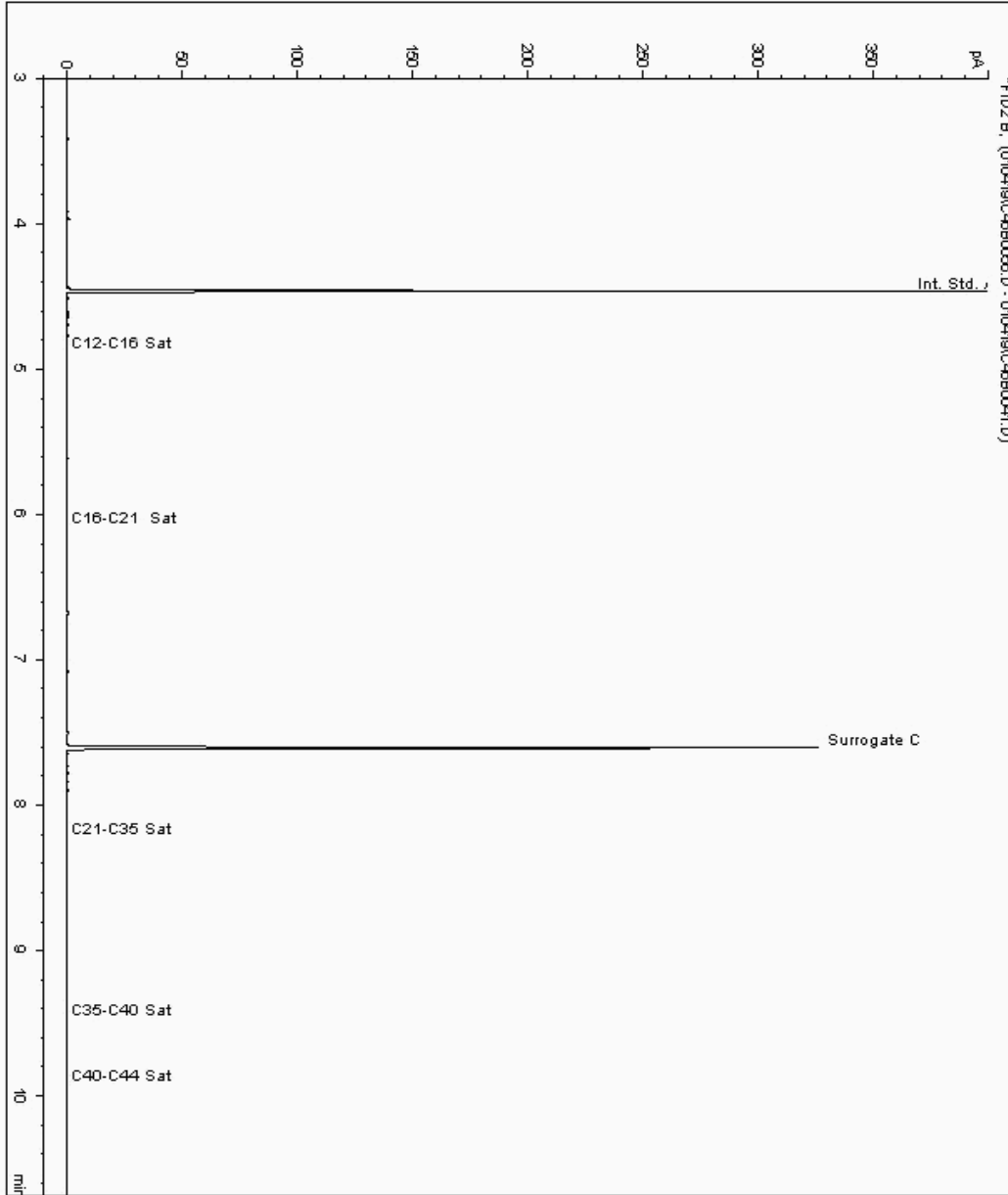
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020102
Sample ID : BH203

Depth : 10.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868650-
Date Acquired : 05/01/2019 03:25:37 PM
Units : ppb
Dilution: BH203[10.00 - 12.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

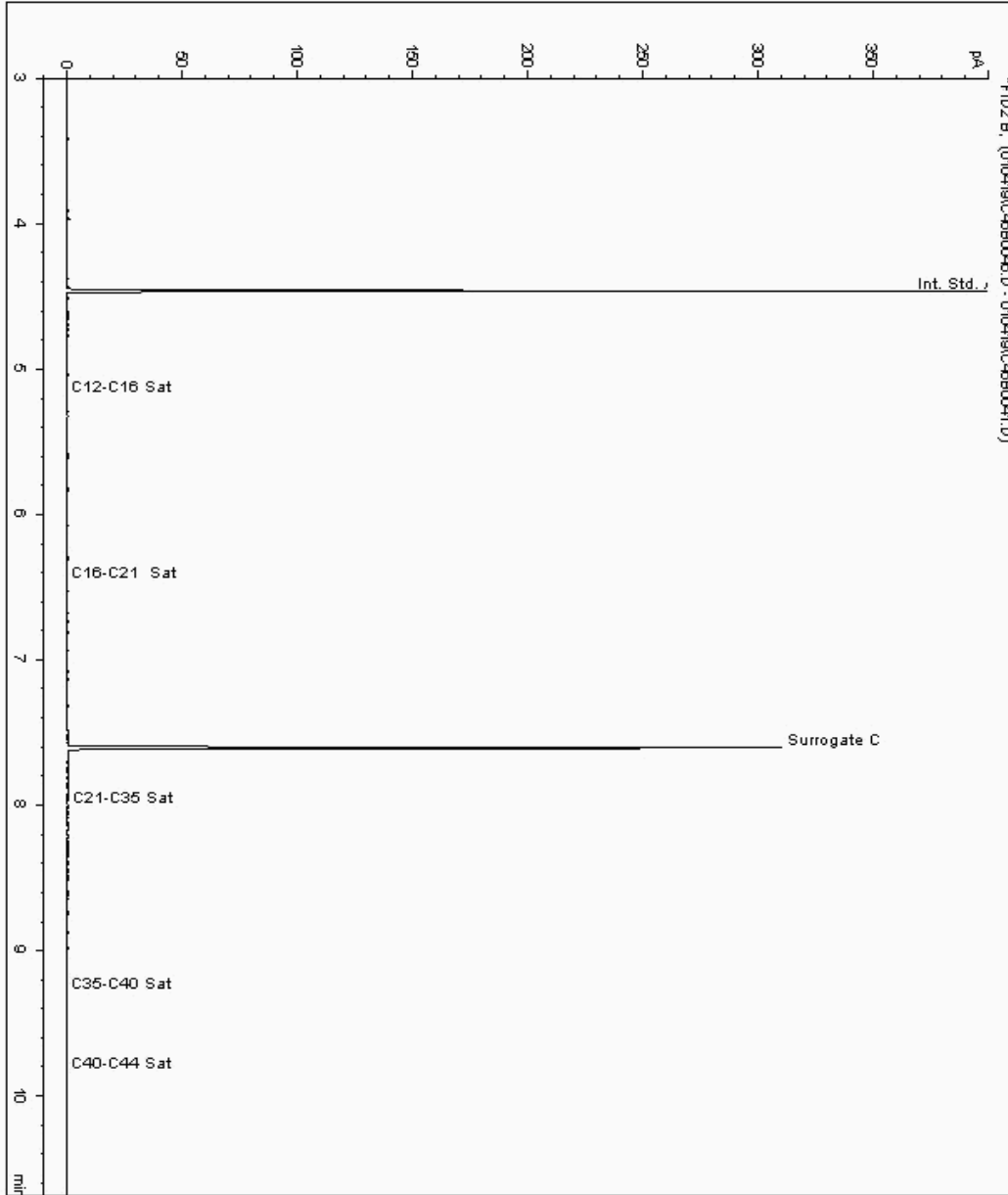
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020170
Sample ID : BH202

Depth : 11.50 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868490-
Date Acquired : 05/01/2019 00:02:56 PM
Units : ppb
Dilution: BH202[11.50 - 13.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

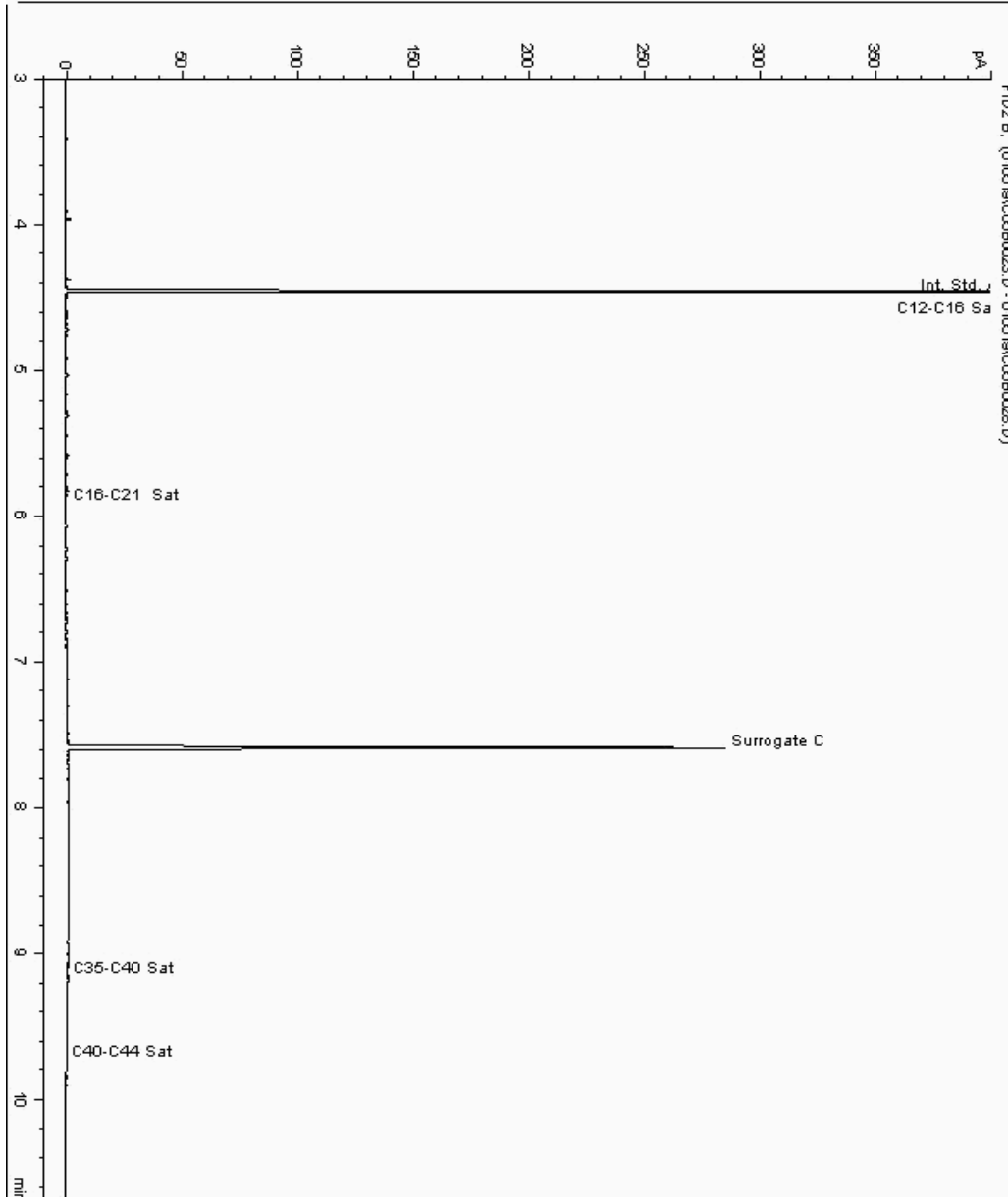
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020238
Sample ID : BH203

Depth : 13.00 - 14.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868735-
Date Acquired : 05/01/2019 16:24:13 PM
Units : ppb
Dilution: BH203[13.00 - 14.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

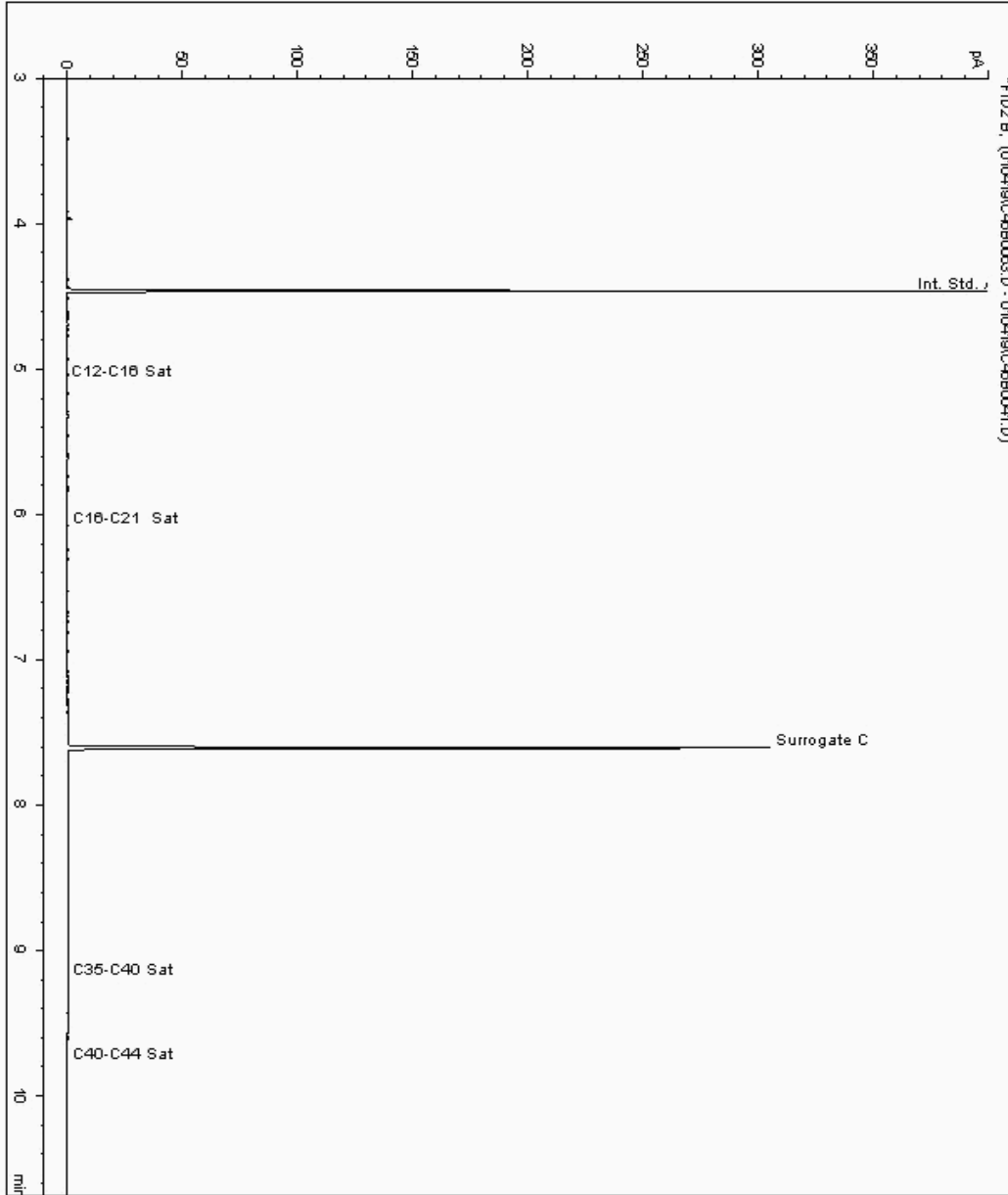
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020285
Sample ID : BH202

Depth : 15.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868468-
Date Acquired : 05/01/2019 05:37:01 PM
Units : ppb
Dilution: BH202[15.00 - 17.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

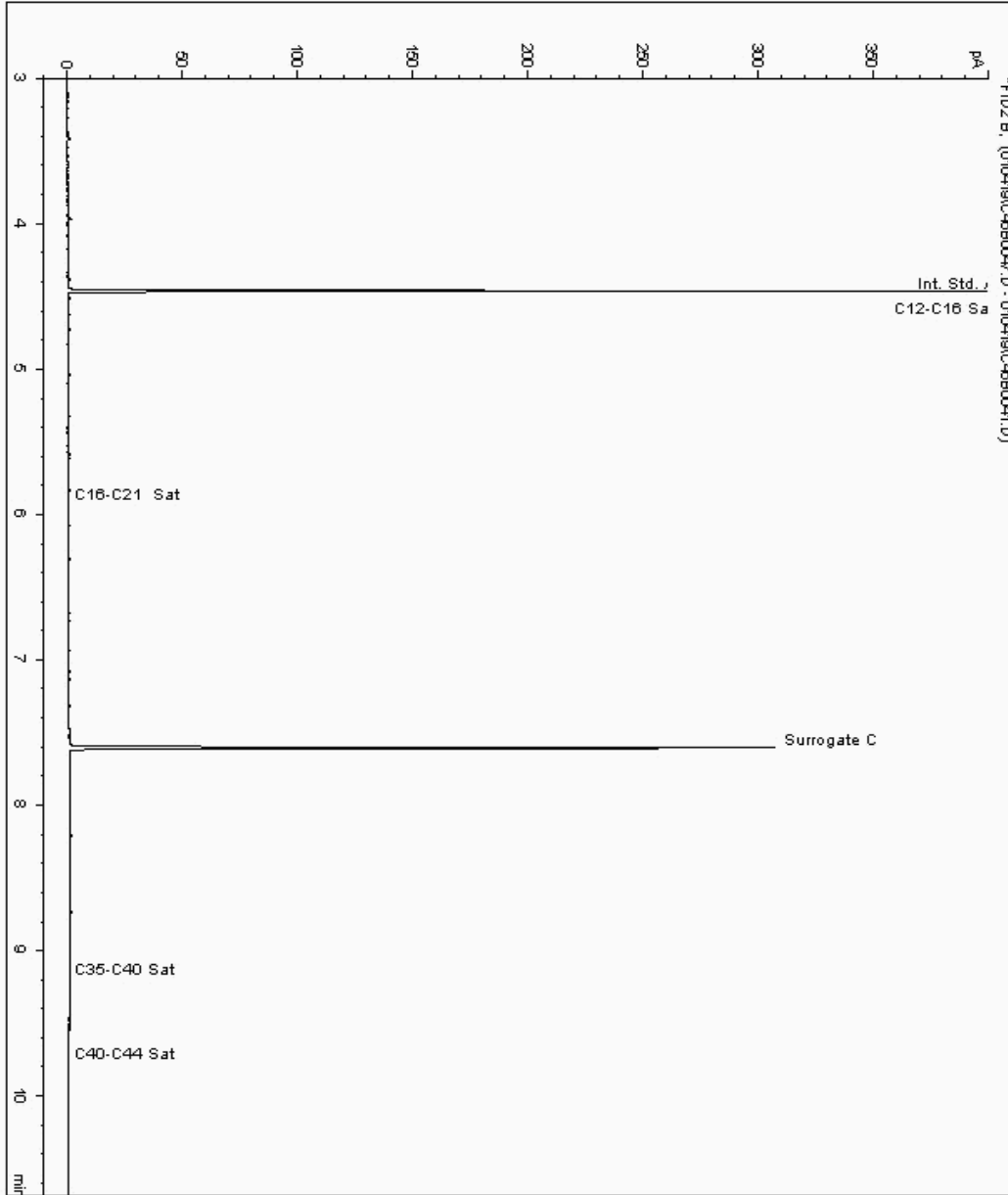
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020343
Sample ID : BH203

Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868804-
Date Acquired : 05/01/2019 00:42:33 PM
Units : ppb
Dilution: BH203[14.00 - 15.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

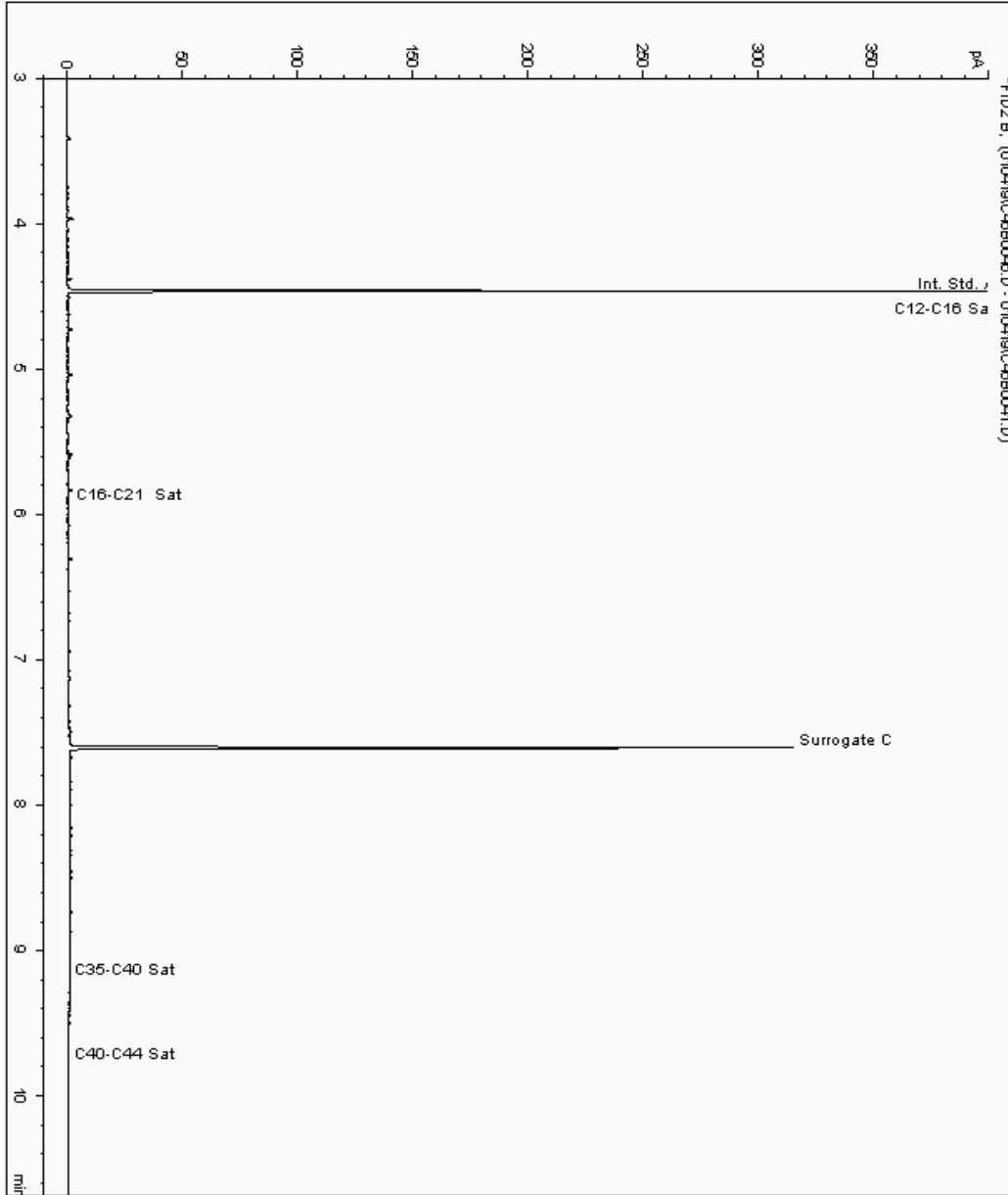
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020409
Sample ID : BH203

Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868855-
Date Acquired : 05/01/2019 00:22:45 PM
Units : ppb
Dilution: BH203[15.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

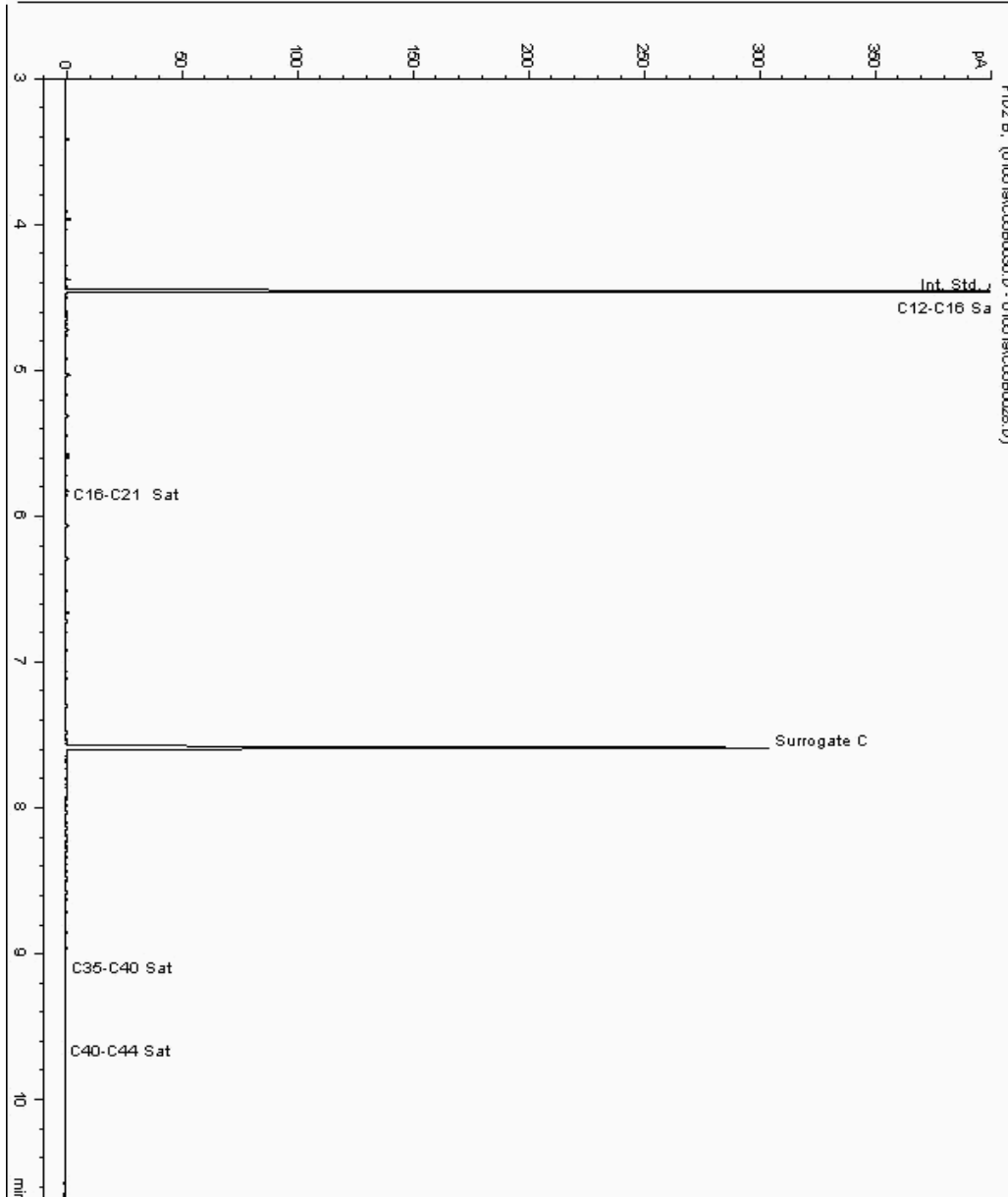
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19020473
Sample ID : BH204

Depth : 14.00 - 15.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17868902-
Date Acquired : 05/01/2019 19:53:41 PM
Units : ppb
Dilution: BH204[14.00 - 15.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

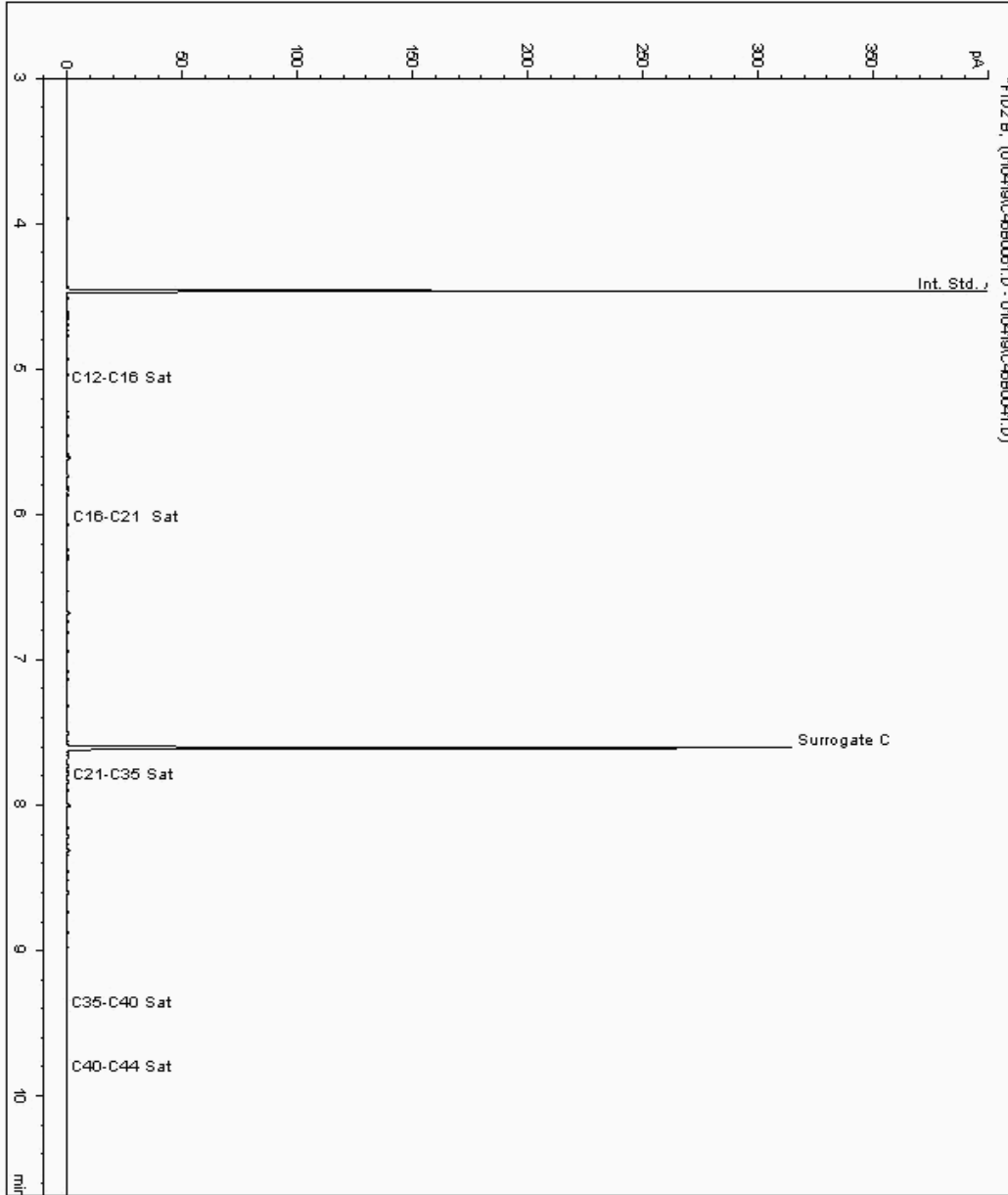
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021131
Sample ID : BH204

Depth : 5.80 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869270-
Date Acquired : 05/01/2019 04:57:30 PM
Units : ppb
Dilution: BH204[5.80 - 7.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

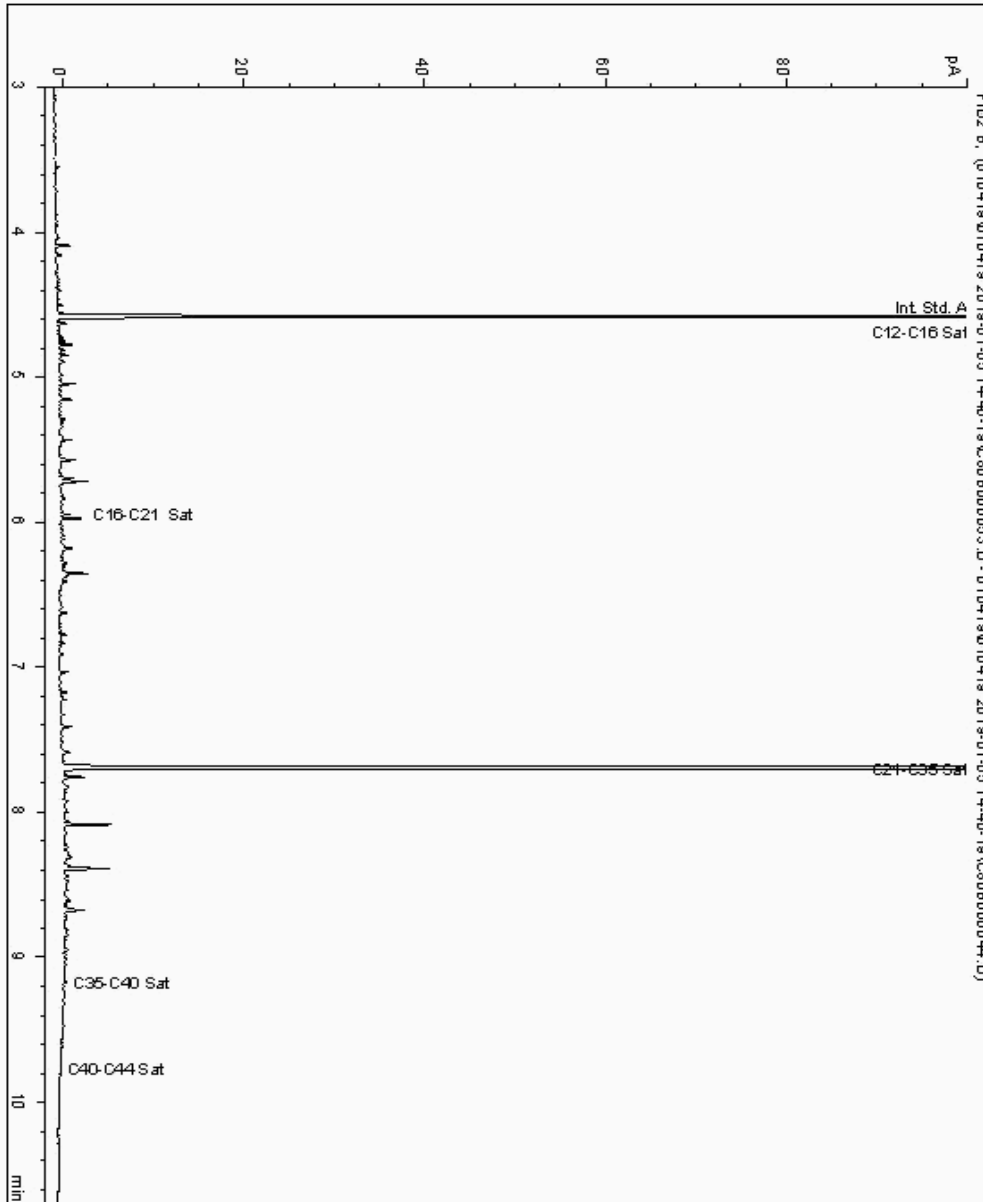
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021218
Sample ID : BH204

Depth : 4.00 - 5.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869222-
Date Acquired : 05/01/19 18:40:11
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

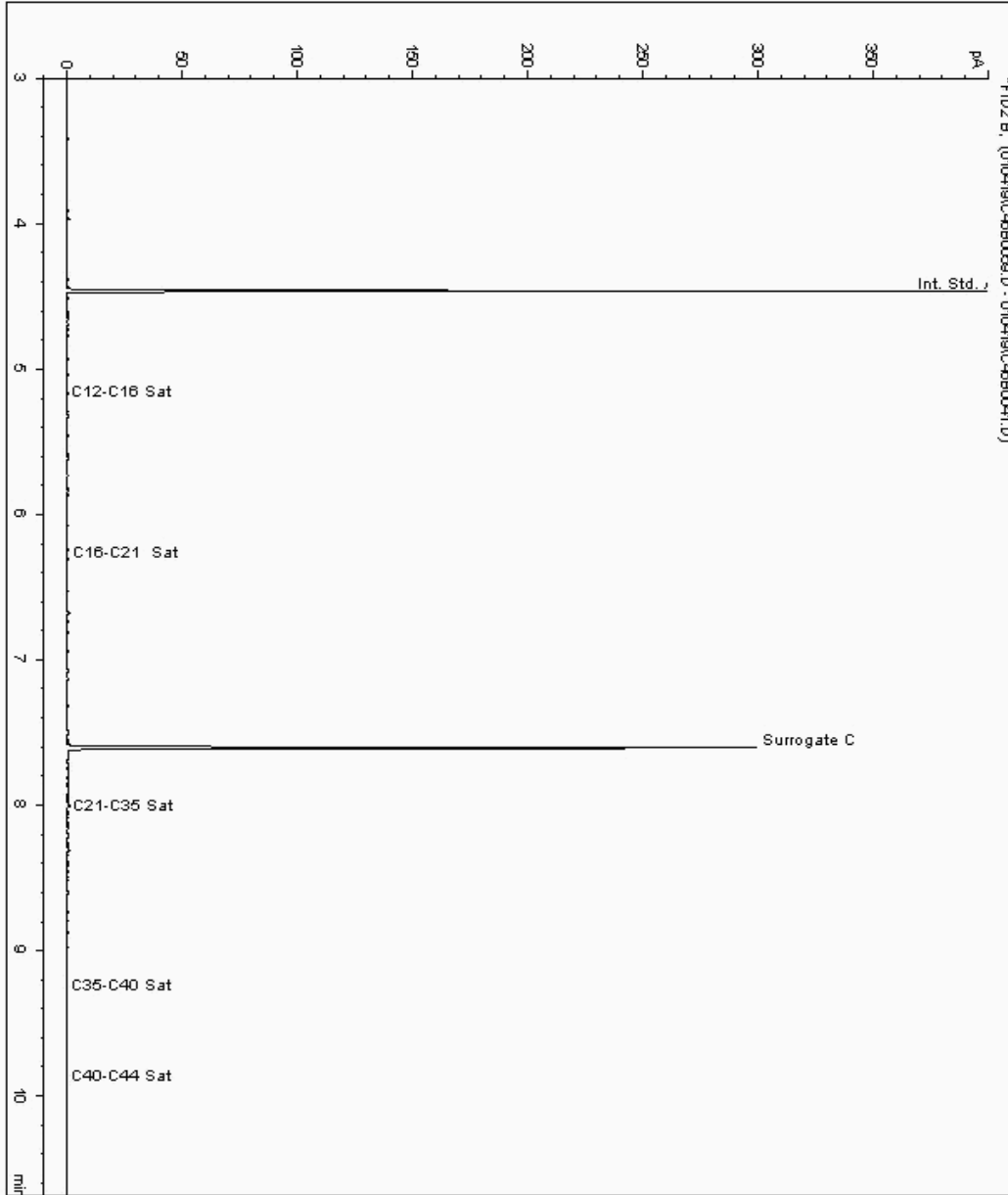
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021362
Sample ID : BH204

Depth : 8.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869319-
Date Acquired : 05/01/2019 04:17:41 PM
Units : ppb
Dilution: BH204[8.00 - 10.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

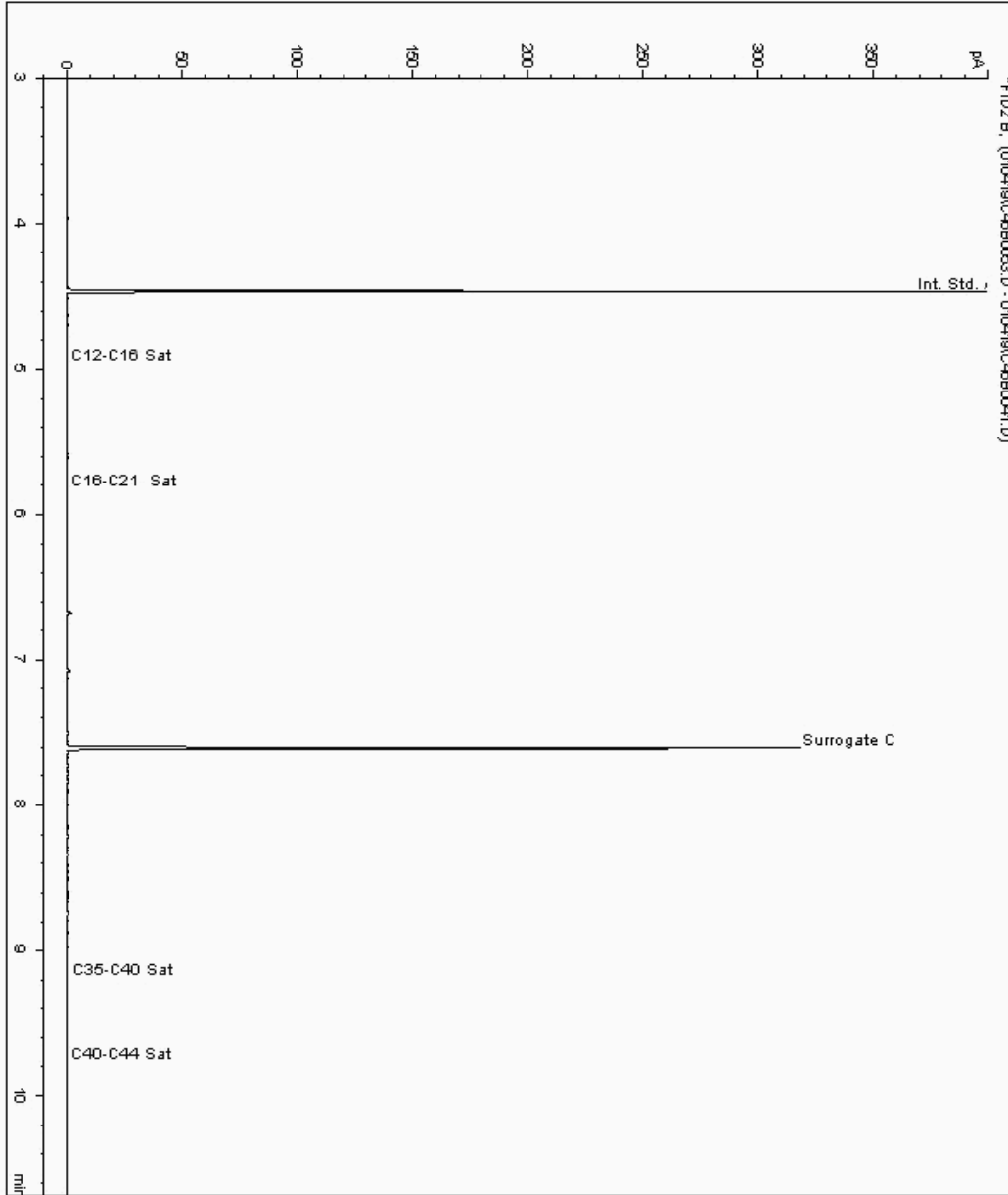
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19021541
Sample ID : BH204

Depth : 11.00 - 12.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869350-
Date Acquired : 05/01/2019 02:33:57 PM
Units : ppb
Dilution: BH204[11.00 - 12.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

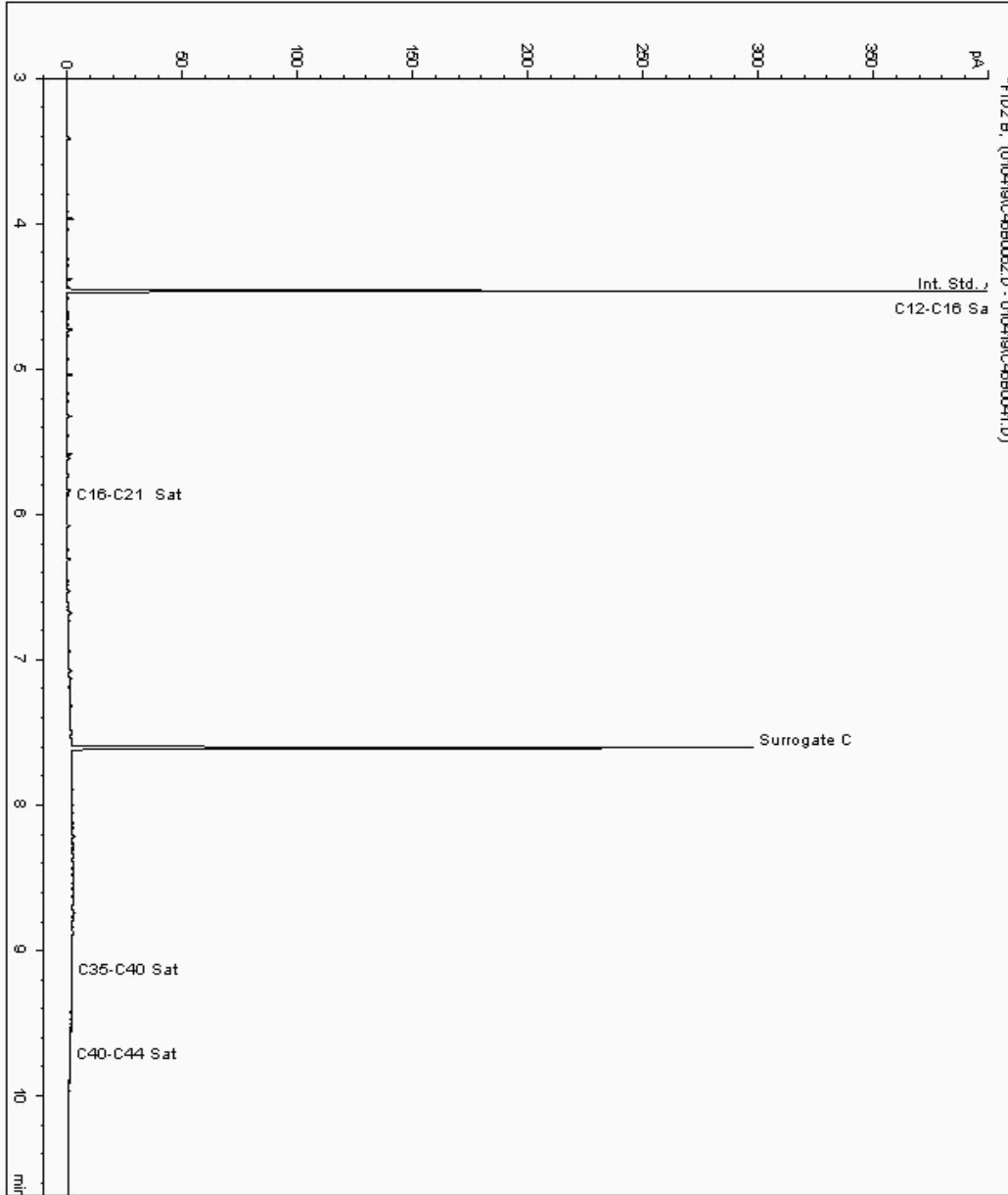
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022402
Sample ID : BH201

Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868512-
Date Acquired : 05/01/2019 05:17:16 PM
Units : ppb
Dilution: BH201[13.00 - 14.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

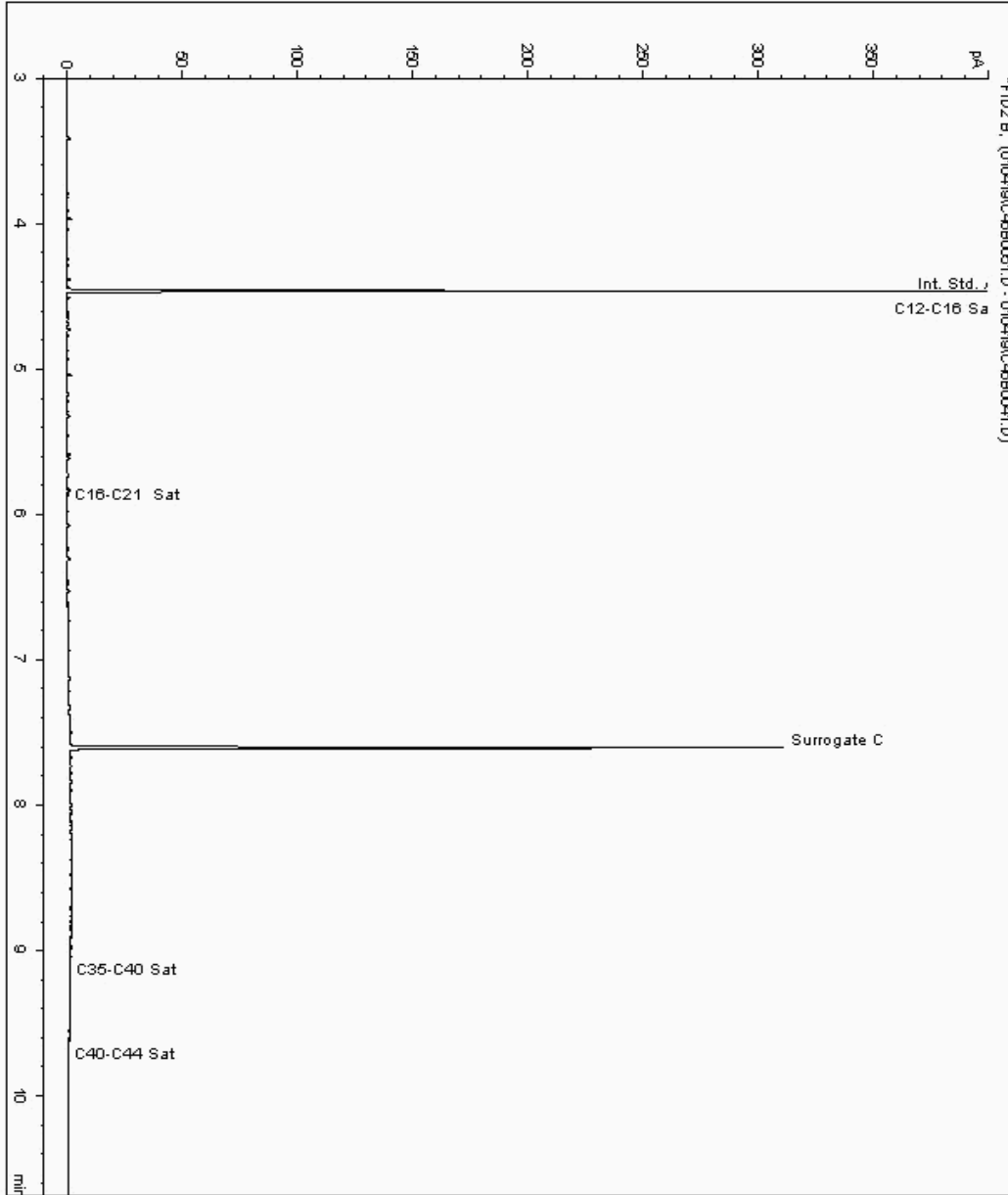
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022452
Sample ID : BH201

Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868537-
Date Acquired : 05/01/2019 01:54:21 PM
Units : ppb
Dilution: BH201[14.00 - 15.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

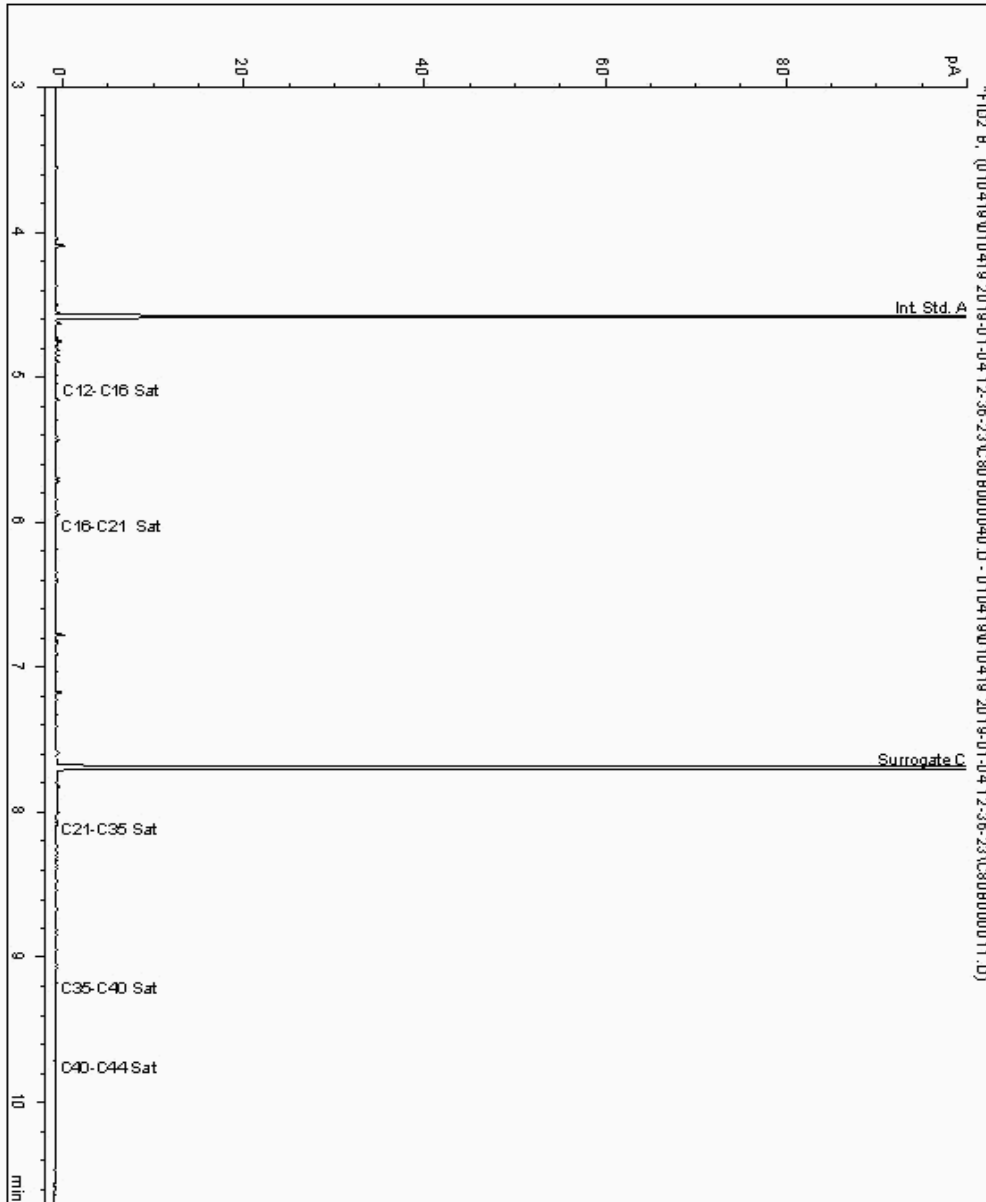
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022584
Sample ID : BH210

Depth : 11.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869437-
Date Acquired : 04/01/19 22:14:21
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

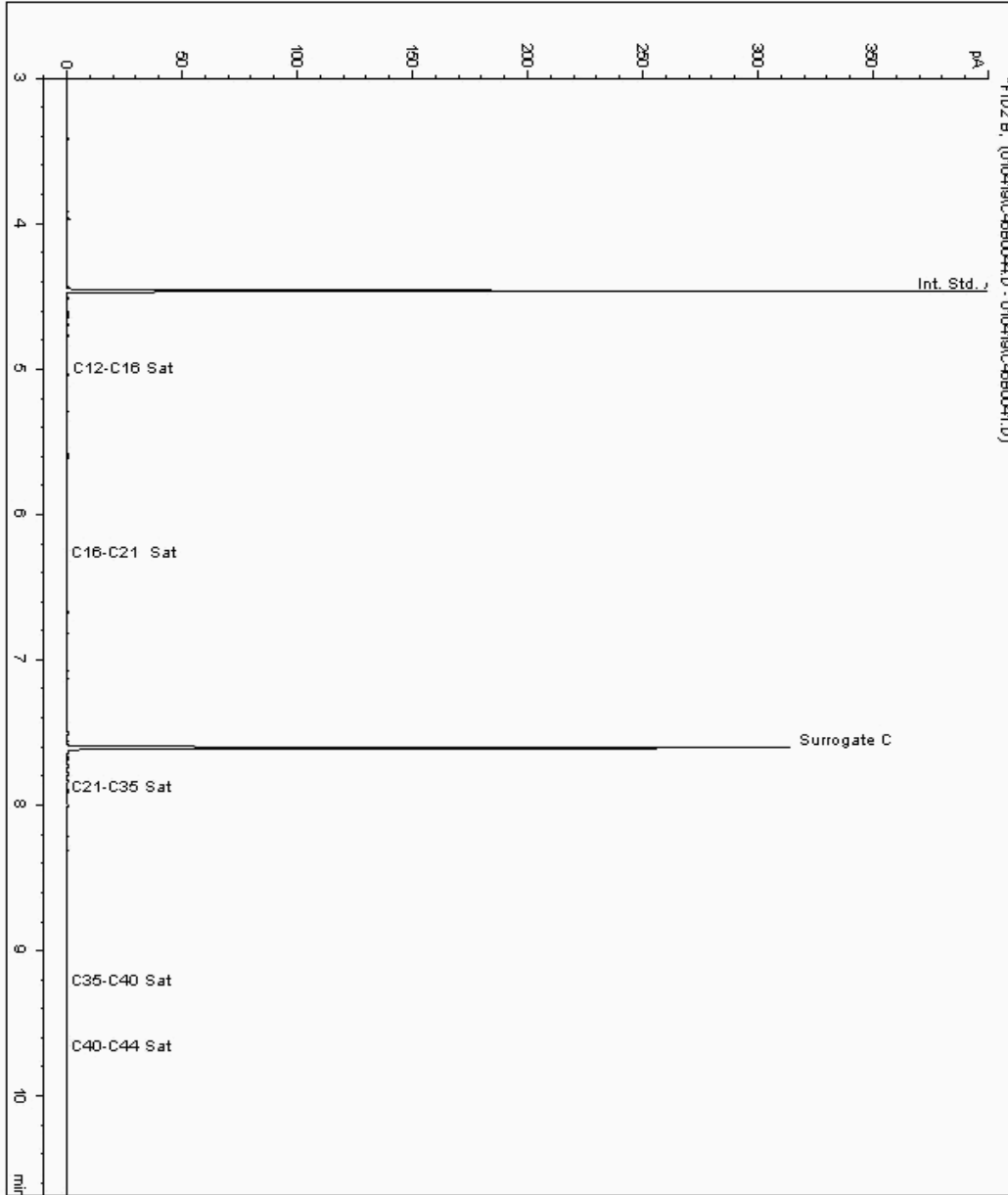
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022732
Sample ID : BH210

Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869545-
Date Acquired : 04/01/2019 23:43:10 PM
Units : ppb
Dilution: BH210[10.00 - 11.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

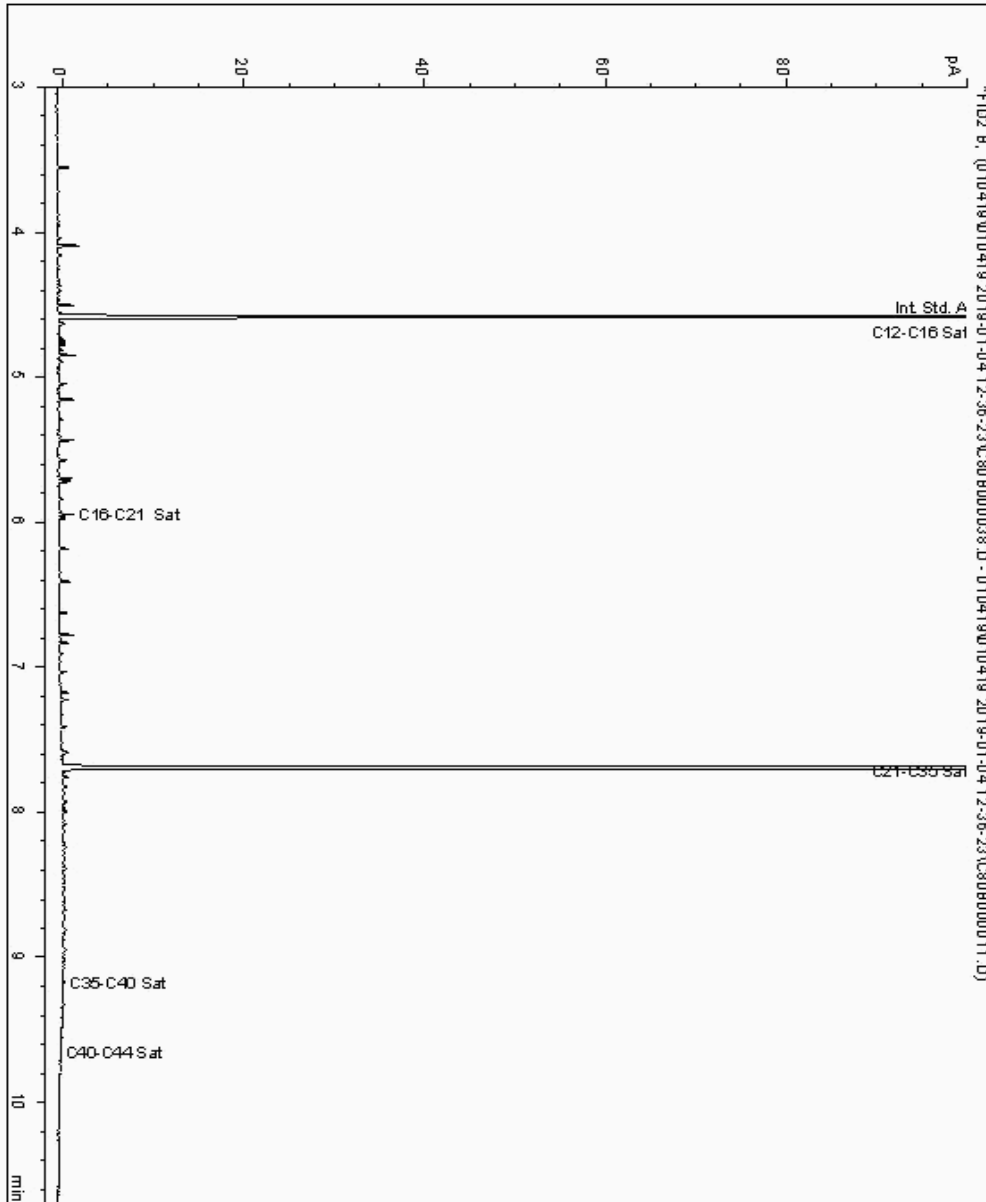
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022838
Sample ID : BH204

Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17869375-
Date Acquired : 04/01/19 21:35:01
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

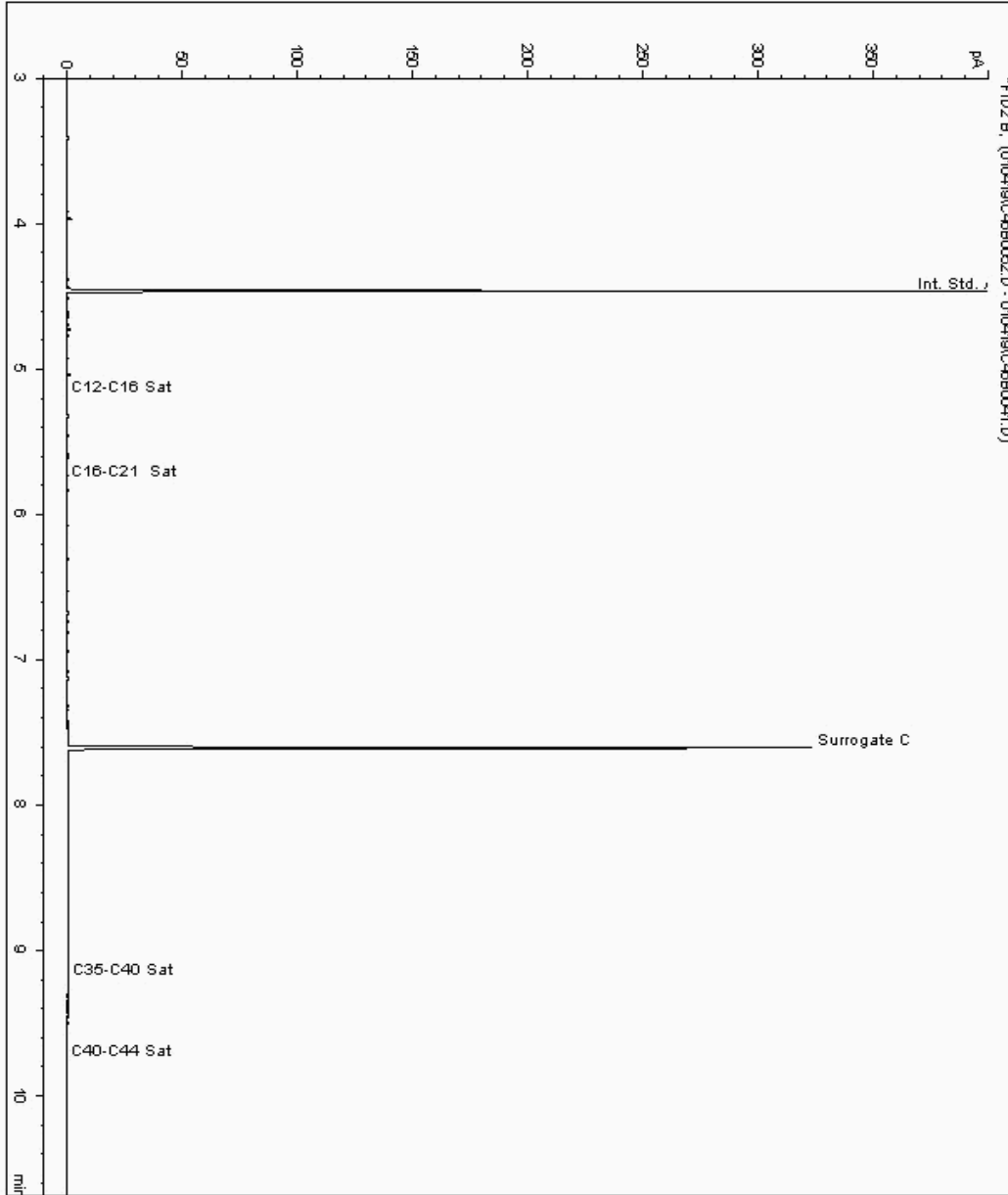
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19022903
Sample ID : BH210

Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869469-
Date Acquired : 05/01/2019 02:14:09 PM
Units : ppb
Dilution: BH210[12.00 - 13.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

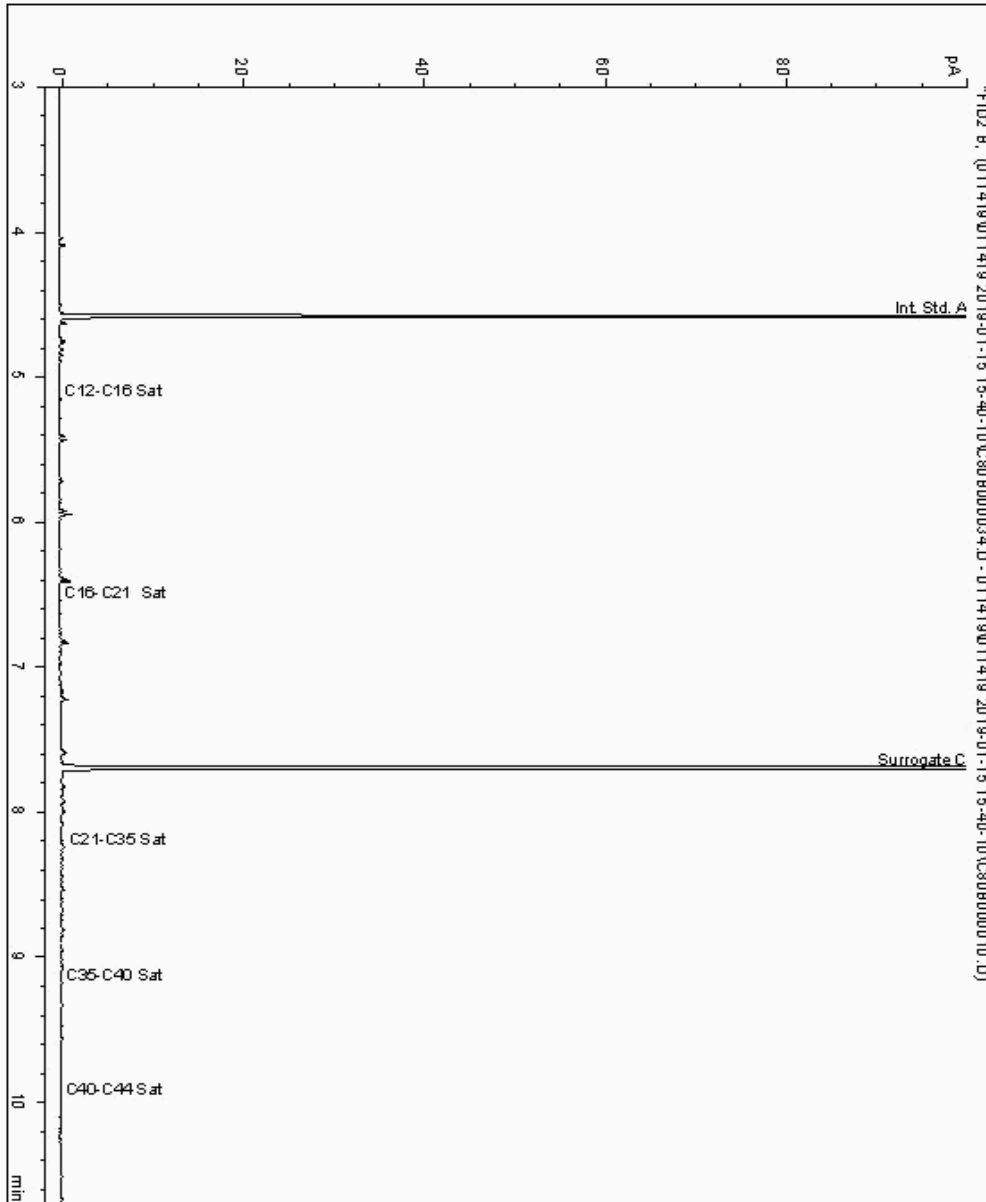
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19091381
Sample ID : BH205

Depth : 10.00 - 12.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17931564-
Date Acquired : 14/01/19 21:00:36
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

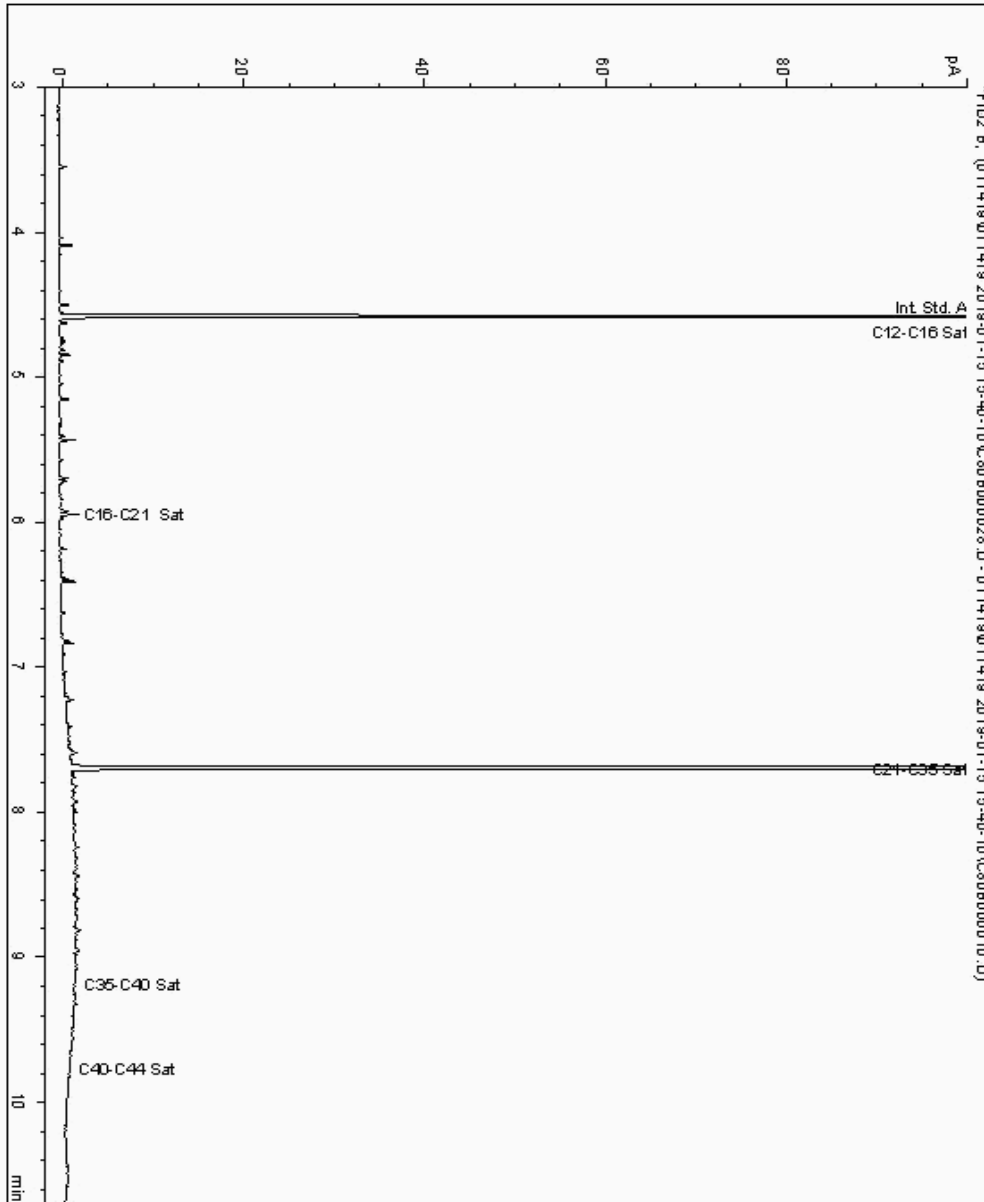
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19091858
Sample ID : BH205

Depth : 13.00 - 14.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 17931596-
Date Acquired : 14/01/19 19:16:36
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

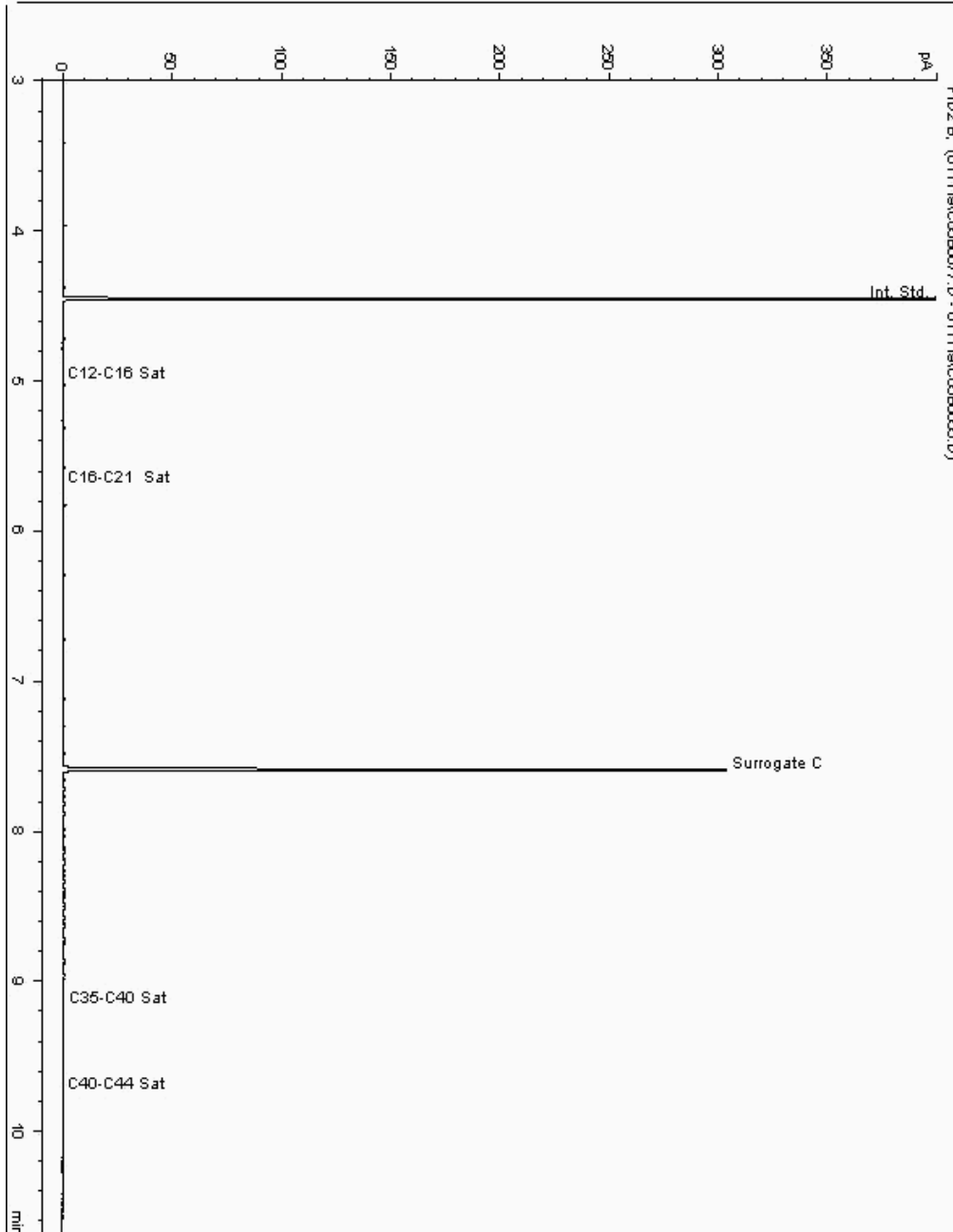
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 19091946
Sample ID : BH205

Depth : 14.00 - 16.00

Speciated TPH - SATS (C12 - C40)

Sample Identity: 17931618-
Date Acquired : 14/01/2019 21:43:00 PM
Units : ppb
Dilution: BH205[14.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

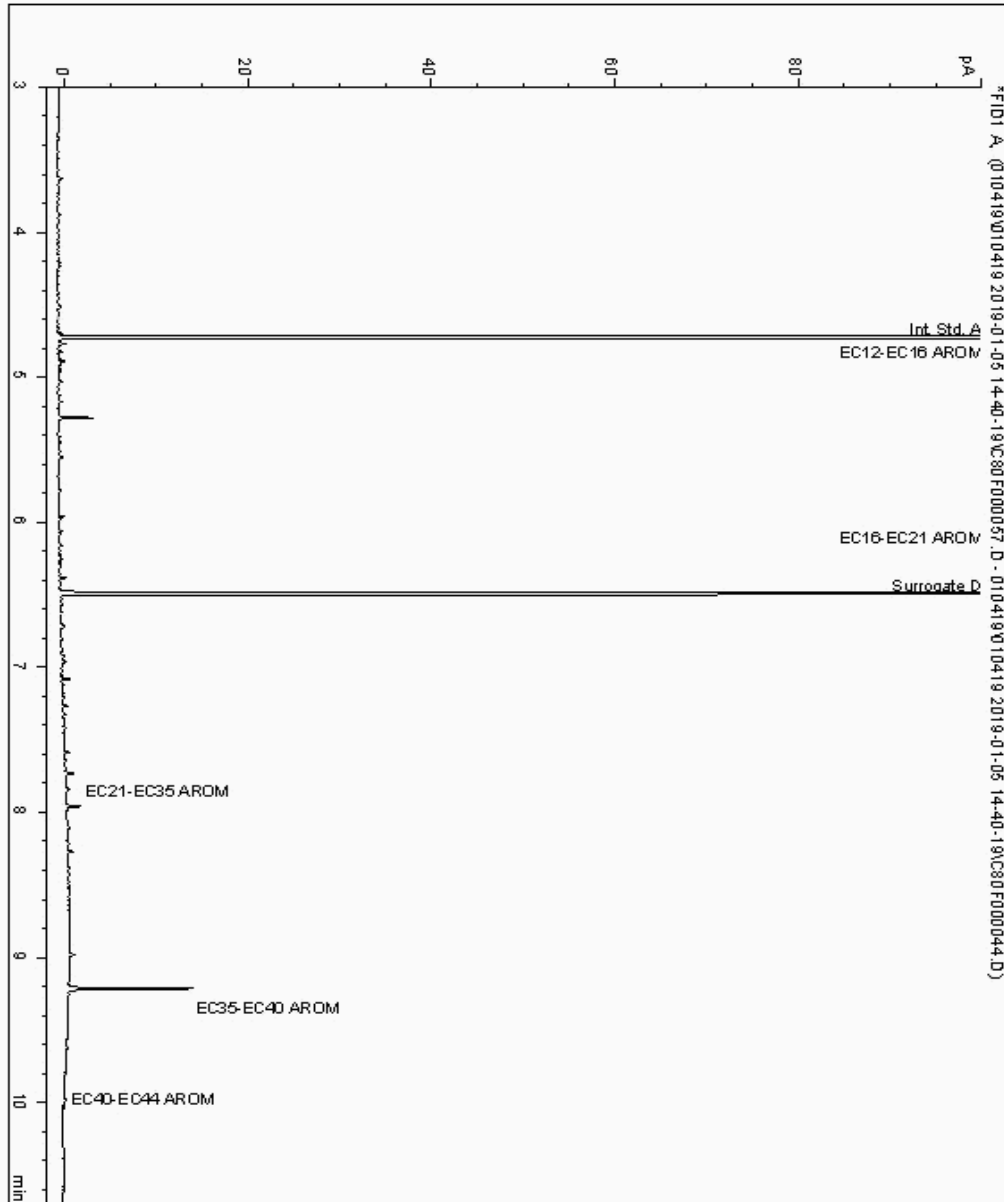
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019470
Sample ID : BH201

Depth : 16.00 - 17.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868611-
Date Acquired : 05/01/19 19:43:41
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

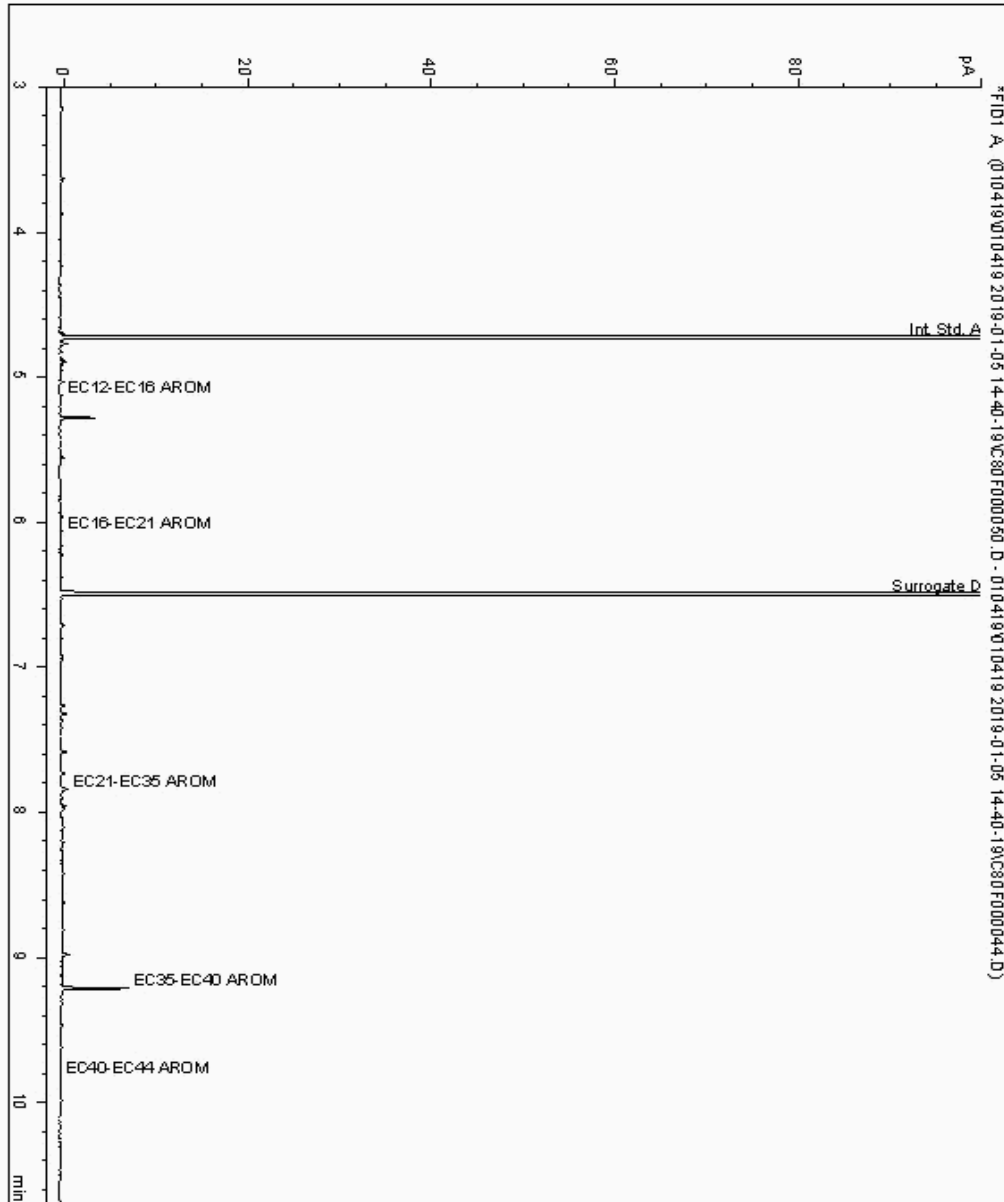
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019506
Sample ID : BH202

Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868392-
Date Acquired : 05/01/19 17:40:48
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

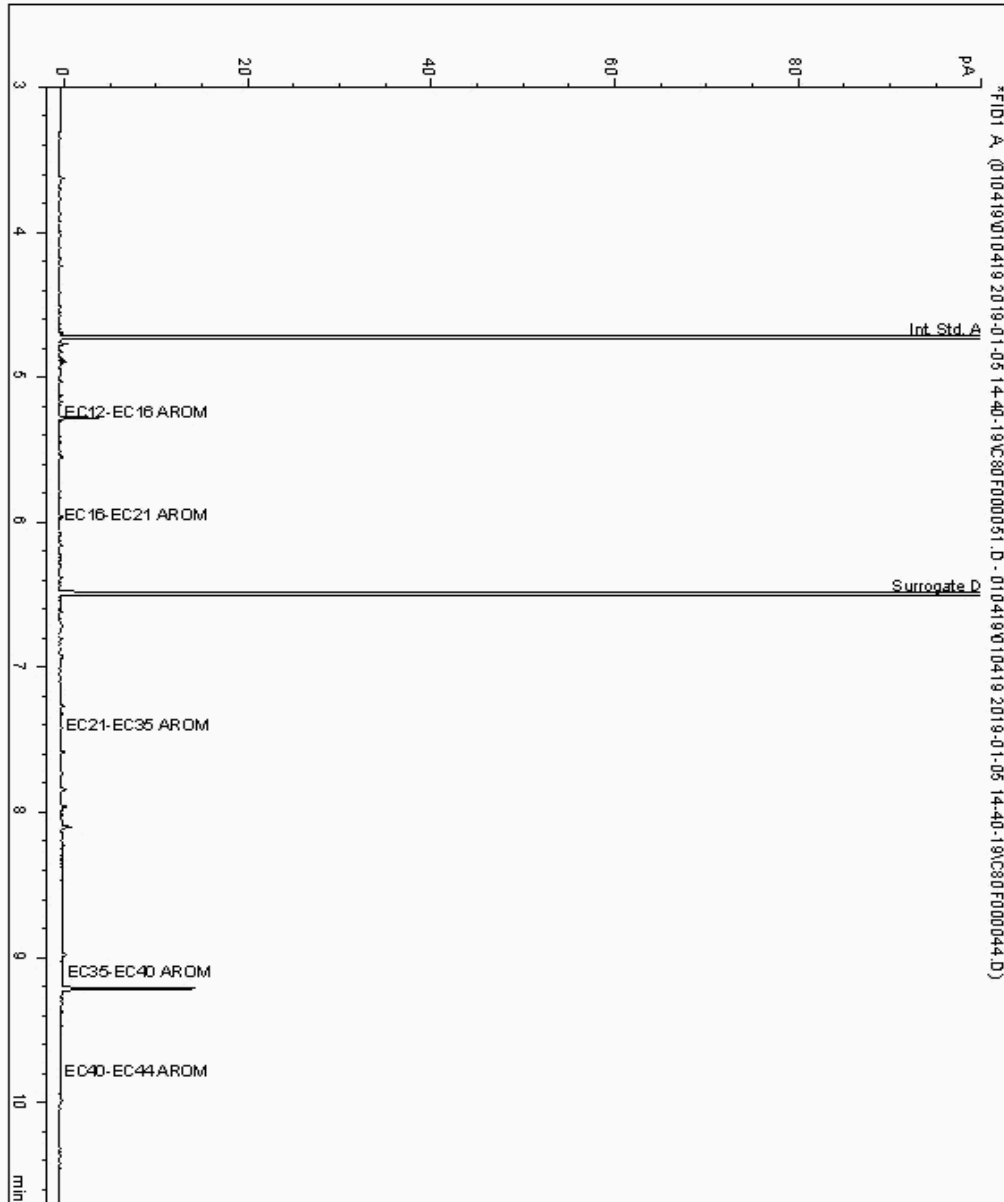
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019604
Sample ID : BH202

Depth : 14.00 - 15.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868446-
Date Acquired : 05/01/19 18:00:34
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

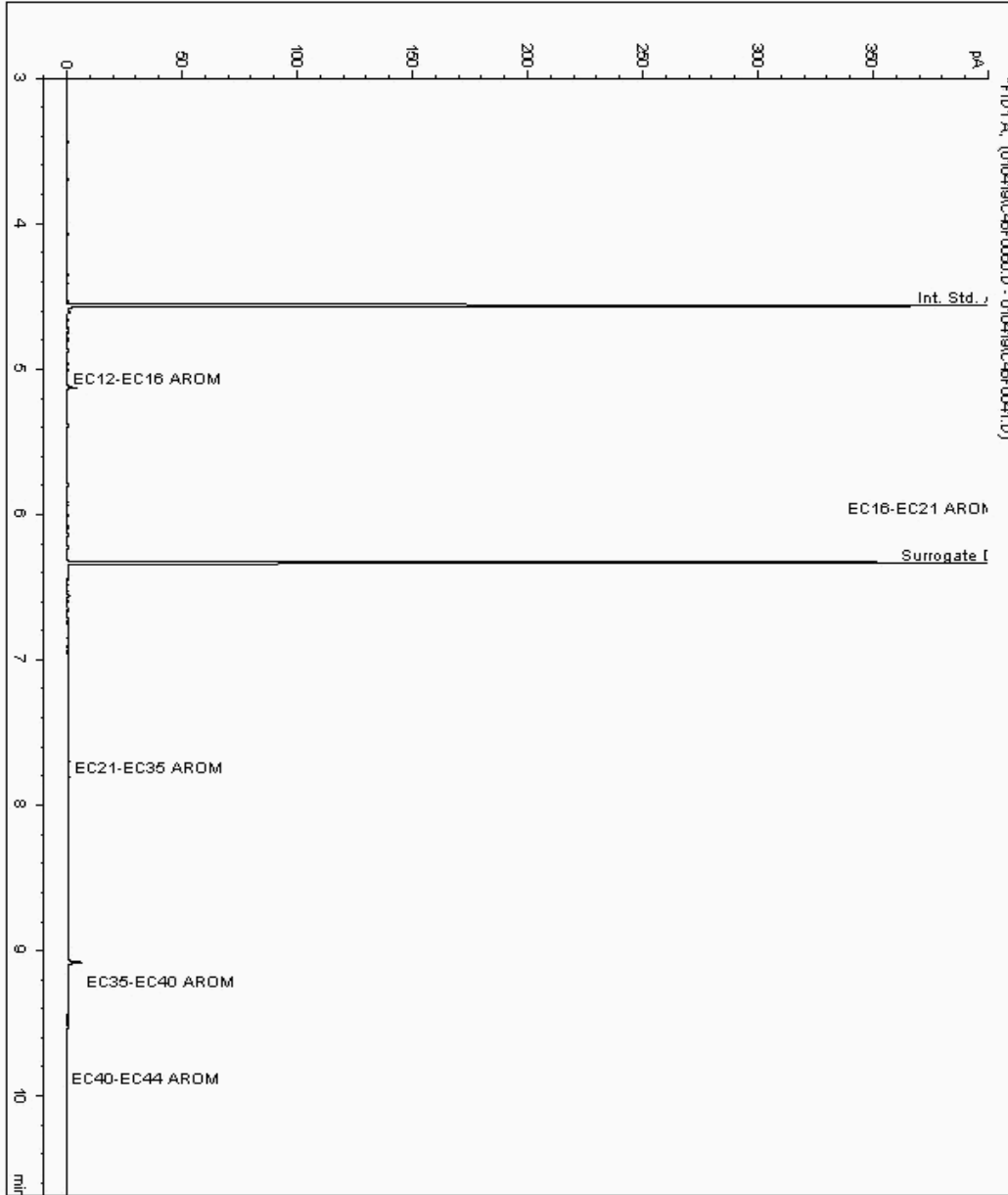
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019606
Sample ID : BH201

Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868564-
Date Acquired : 05/01/2019 04:37:31 PM
Units : ppb
Dilution: BH201[15.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

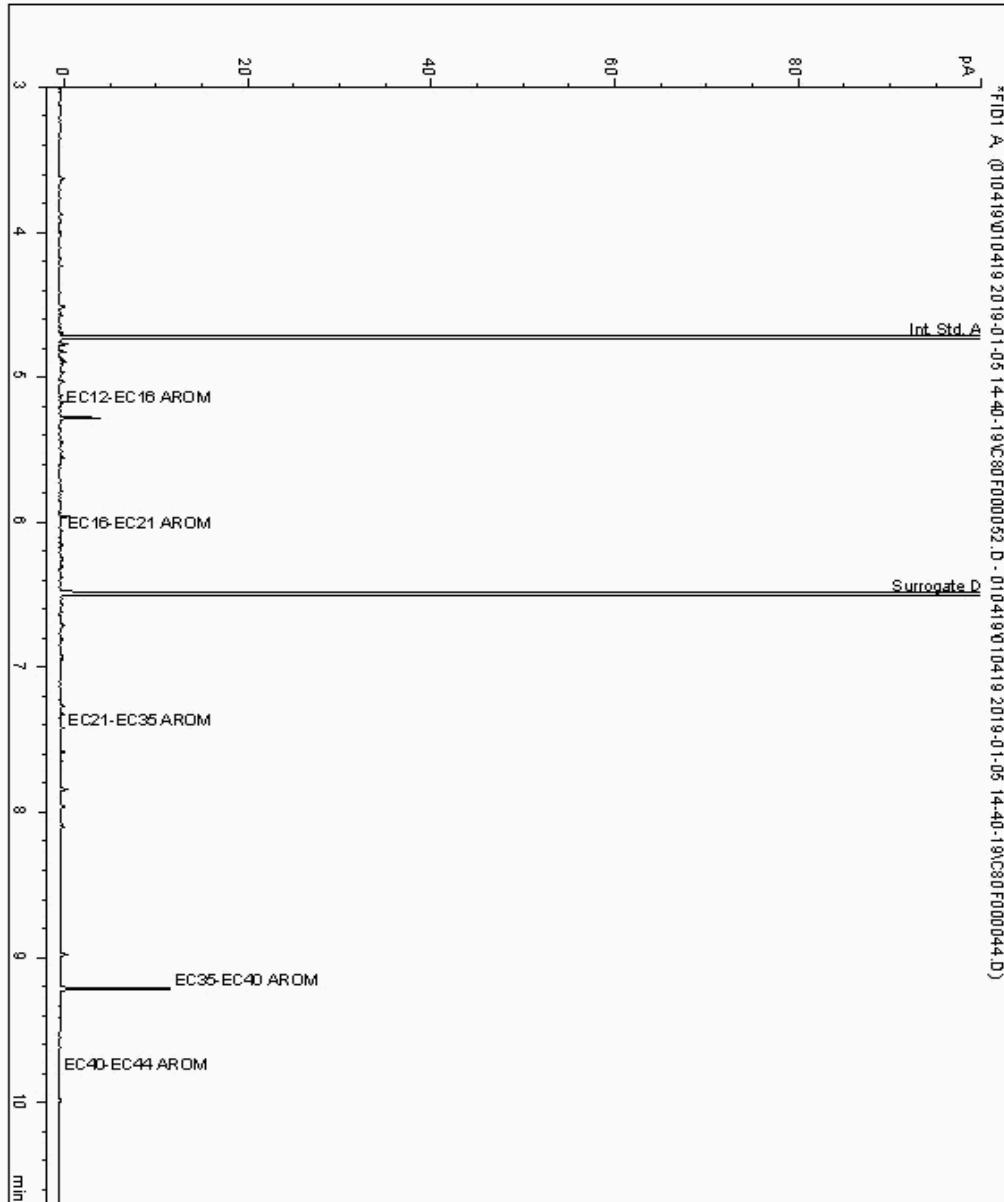
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019701
Sample ID : BH204

Depth : 16.00 - 17.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17868959-
Date Acquired : 05/01/19 18:20:19
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

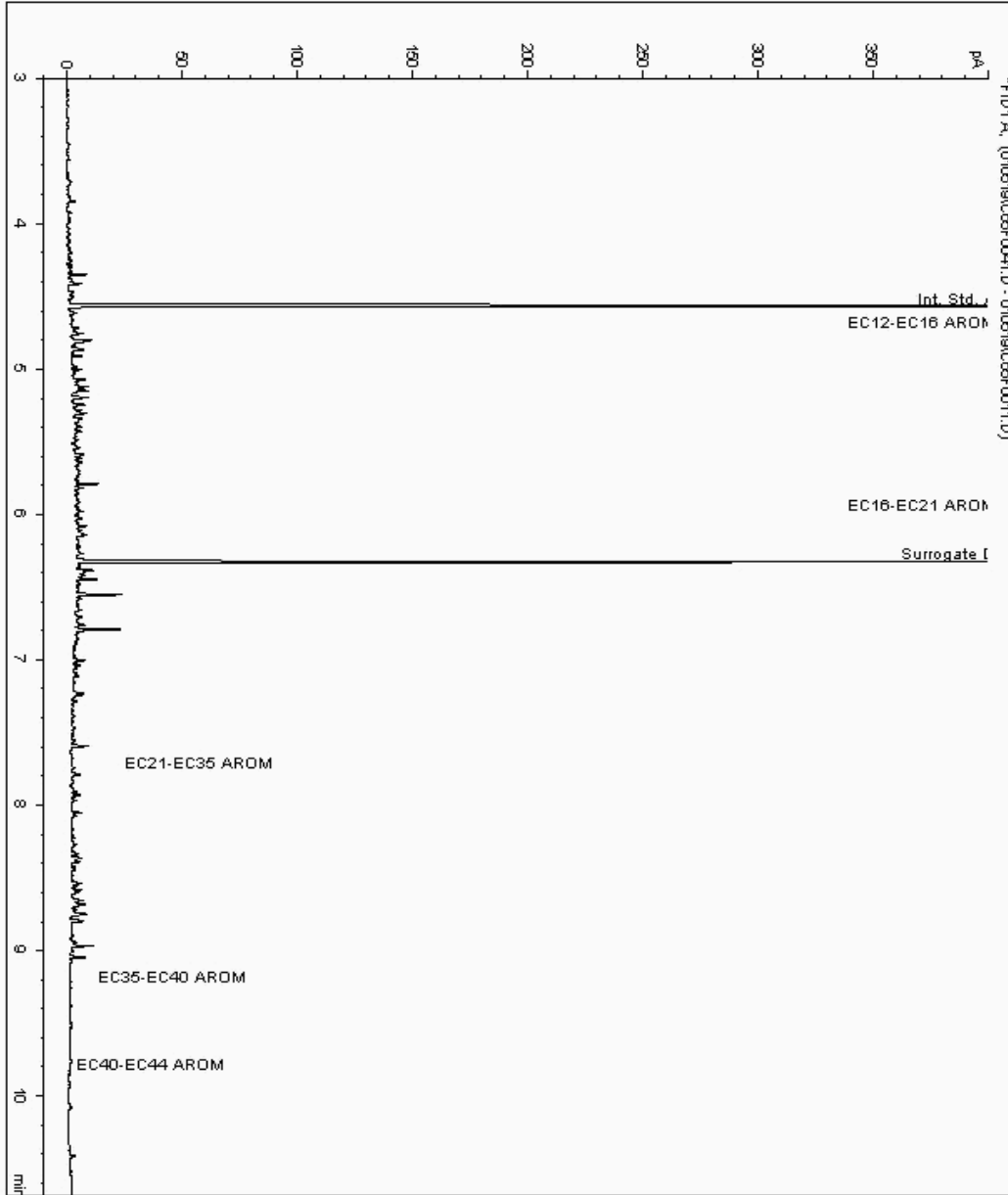
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019702
Sample ID : BH204

Depth : 3.00 - 4.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869187-
Date Acquired : 05/01/2019 21:09:20 PM
Units : ppb
Dilution: BH204[3.00 - 4.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

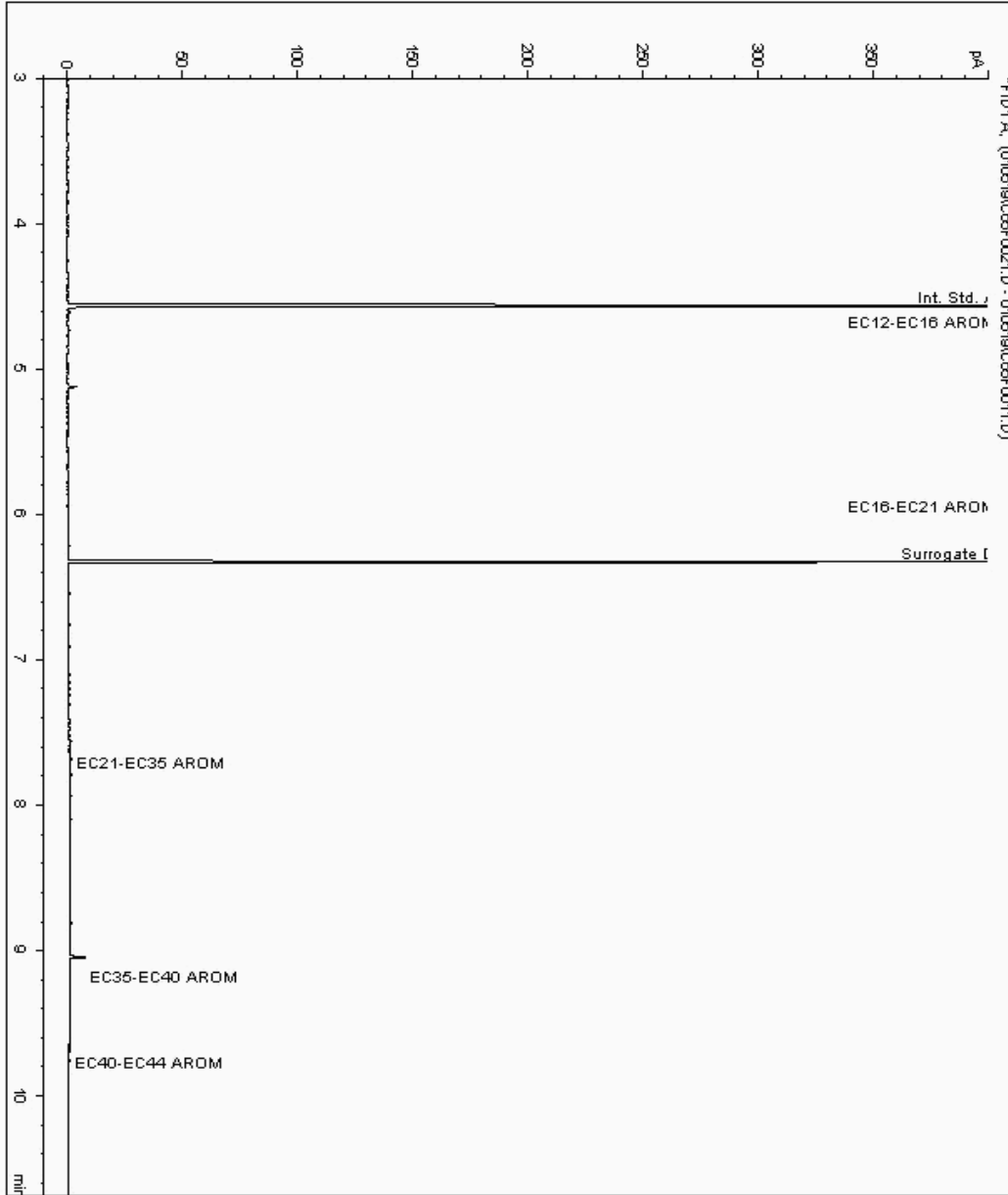
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019733
Sample ID : BH210

Depth : 16.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869413-
Date Acquired : 05/01/2019 15:44:20 PM
Units : ppb
Dilution: BH210[16.00 - 17.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

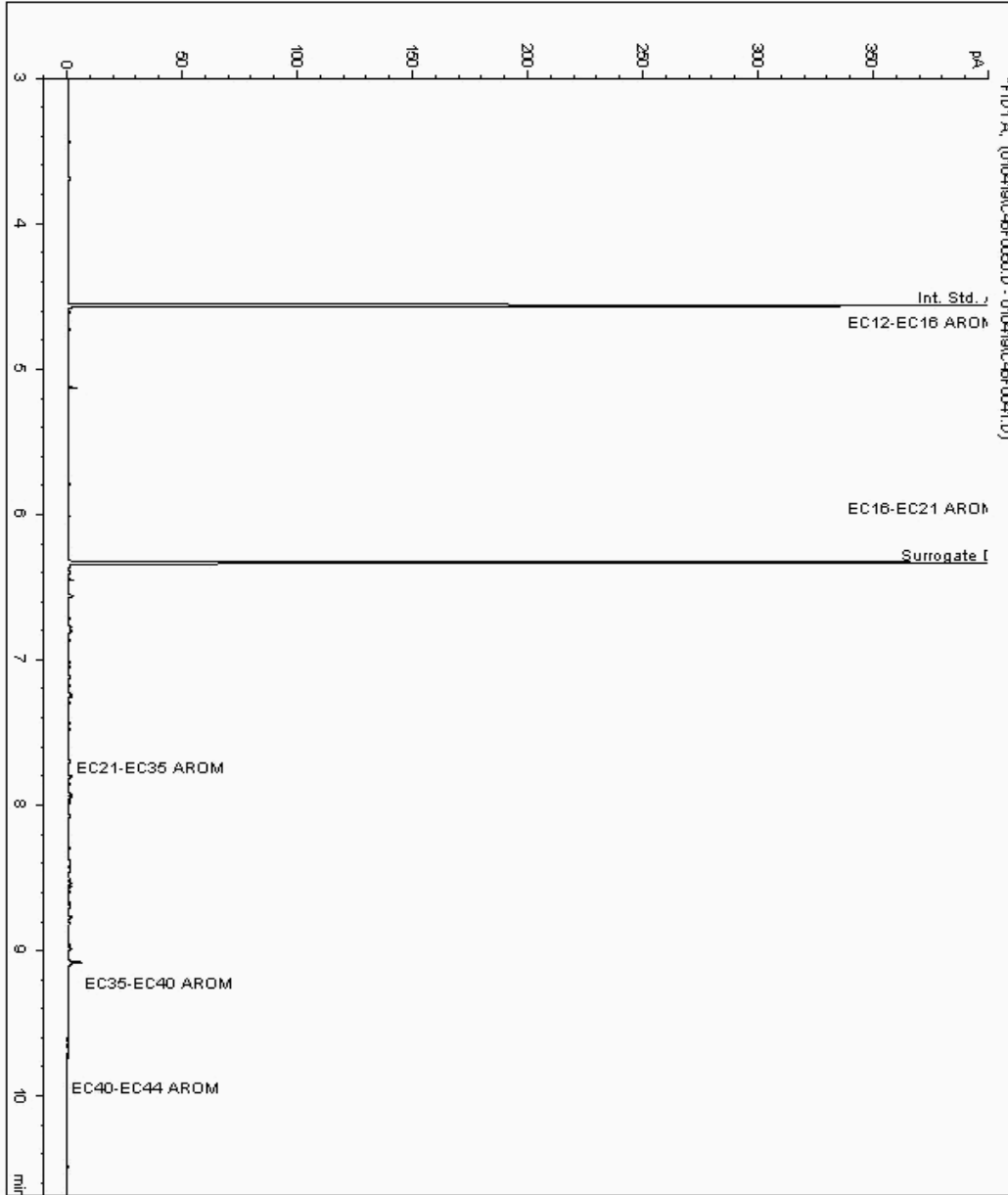
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019788
Sample ID : BH204

Depth : 0.00 - 0.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869025-
Date Acquired : 05/01/2019 01:34:33 PM
Units : ppb
Dilution: BH204[0.00 - 0.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

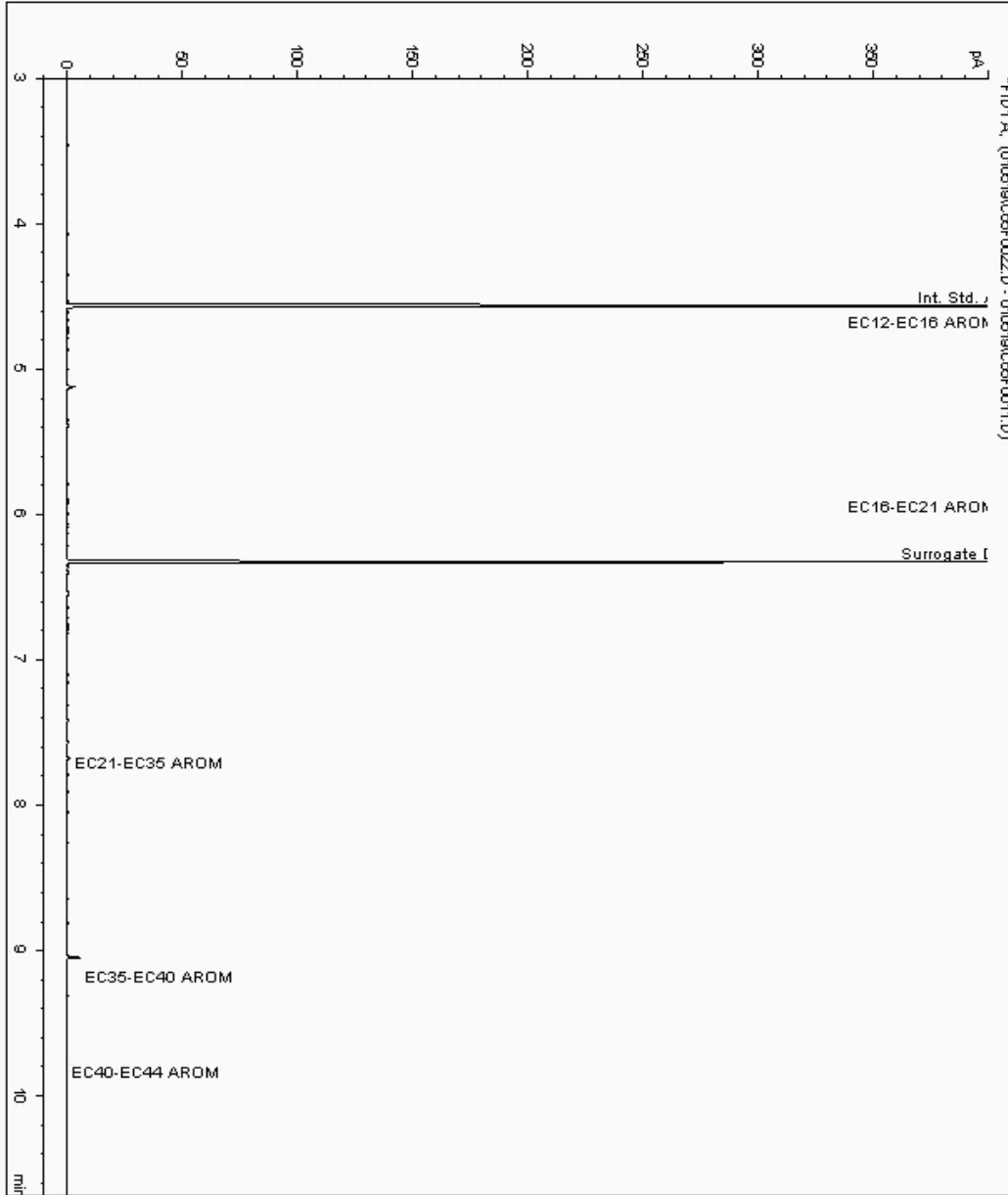
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019851
Sample ID : BH210

Depth : 13.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869499-
Date Acquired : 05/01/2019 16:04:15 PM
Units : ppb
Dilution: BH210[13.00 - 15.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

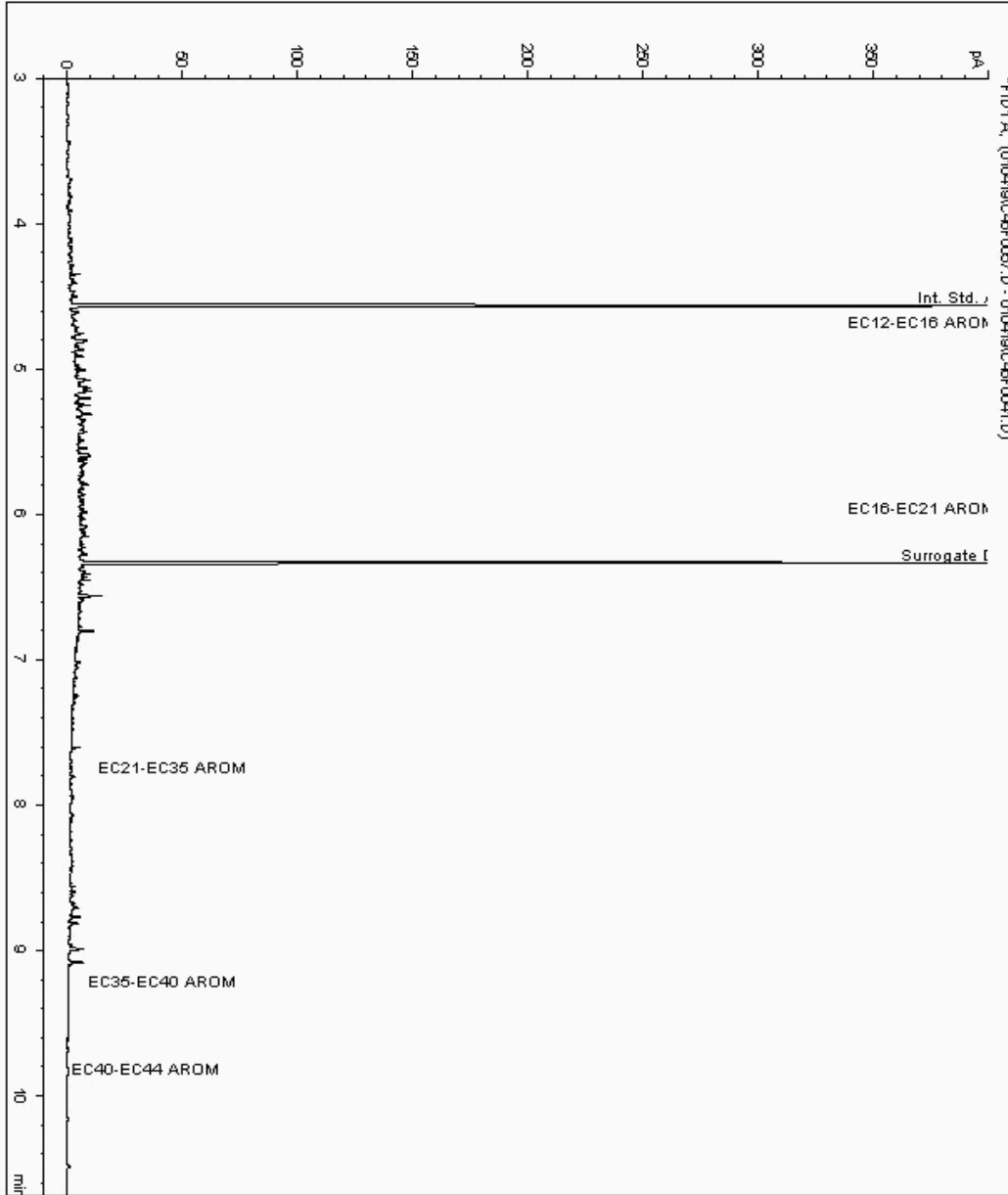
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019962
Sample ID : BH204

Depth : 2.00 - 3.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869135-
Date Acquired : 05/01/2019 03:45:40 PM
Units : ppb
Dilution: BH204[2.00 - 3.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

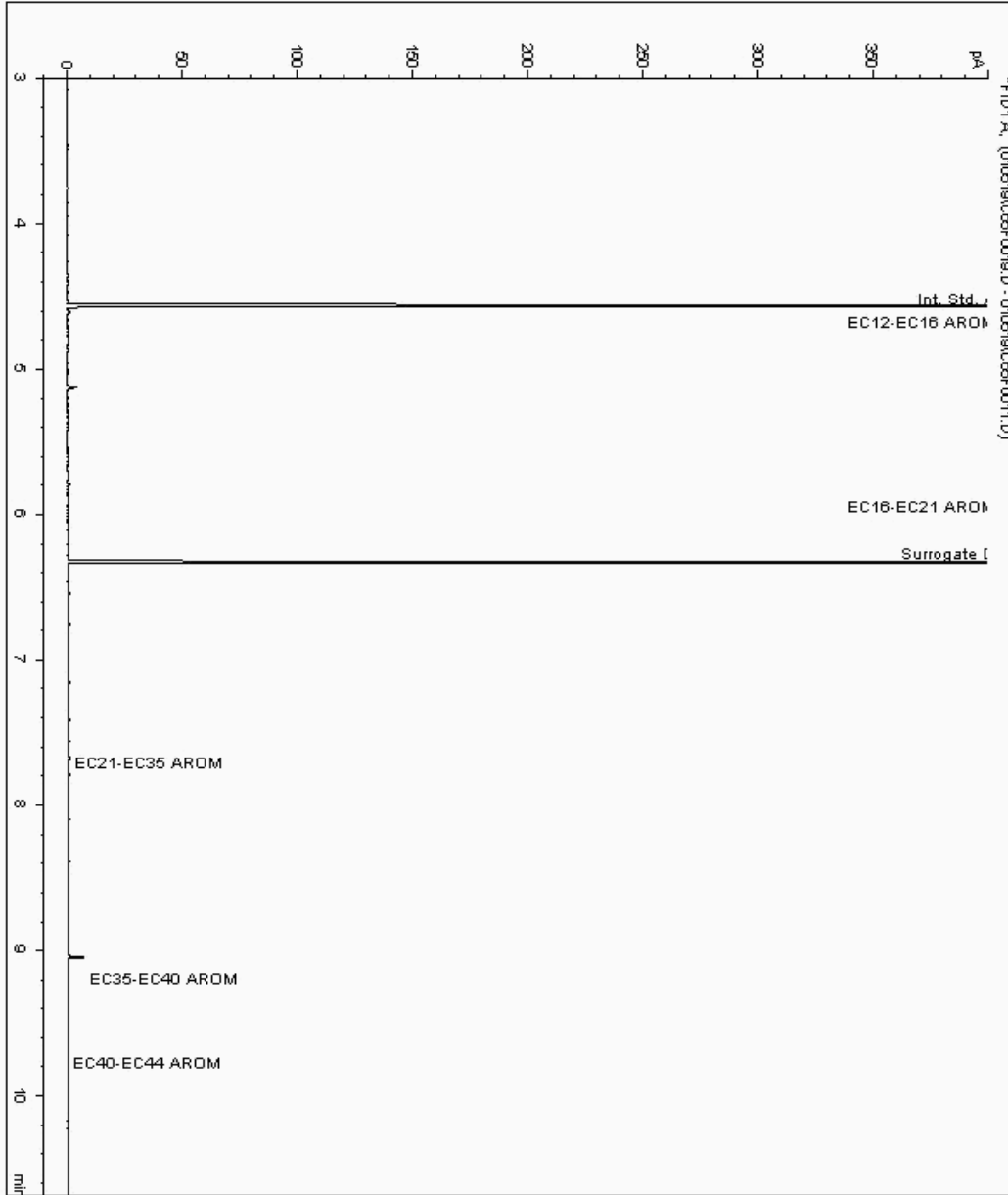
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19019968
Sample ID : BH210

Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869521-
Date Acquired : 05/01/2019 15:04:32 PM
Units : ppb
Dilution: BH210[15.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

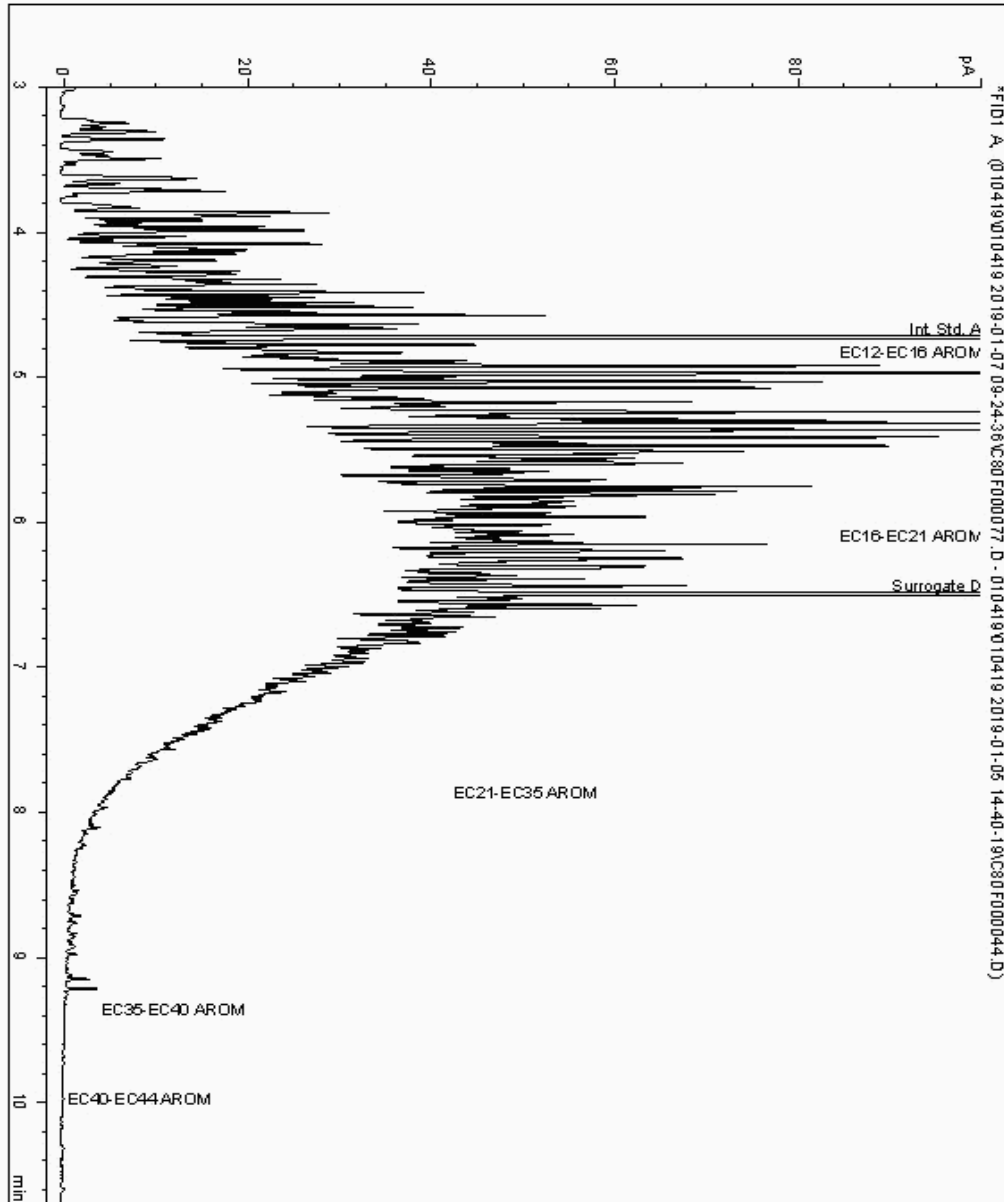
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020065
Sample ID : BH204

Depth : 1.00 - 2.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17869106-
Date Acquired : 07/01/19 10:47:50
Units : ppb
Dilution :
CF : 1
Multiplier : 2.070





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

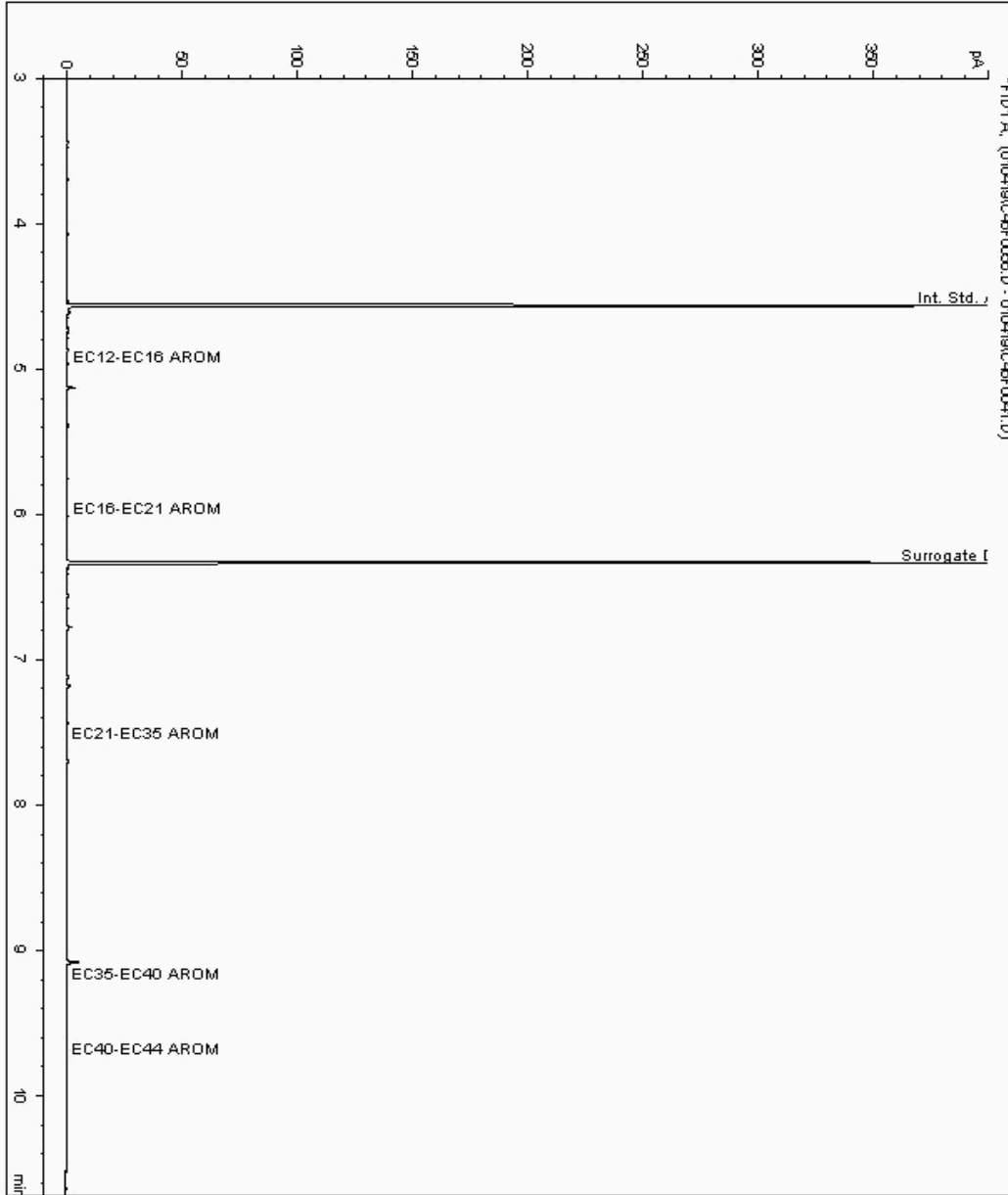
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020102
Sample ID : BH203

Depth : 10.00 - 12.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868651-
Date Acquired : 05/01/2019 03:25:37 PM
Units : ppb
Dilution: BH203[10.00 - 12.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

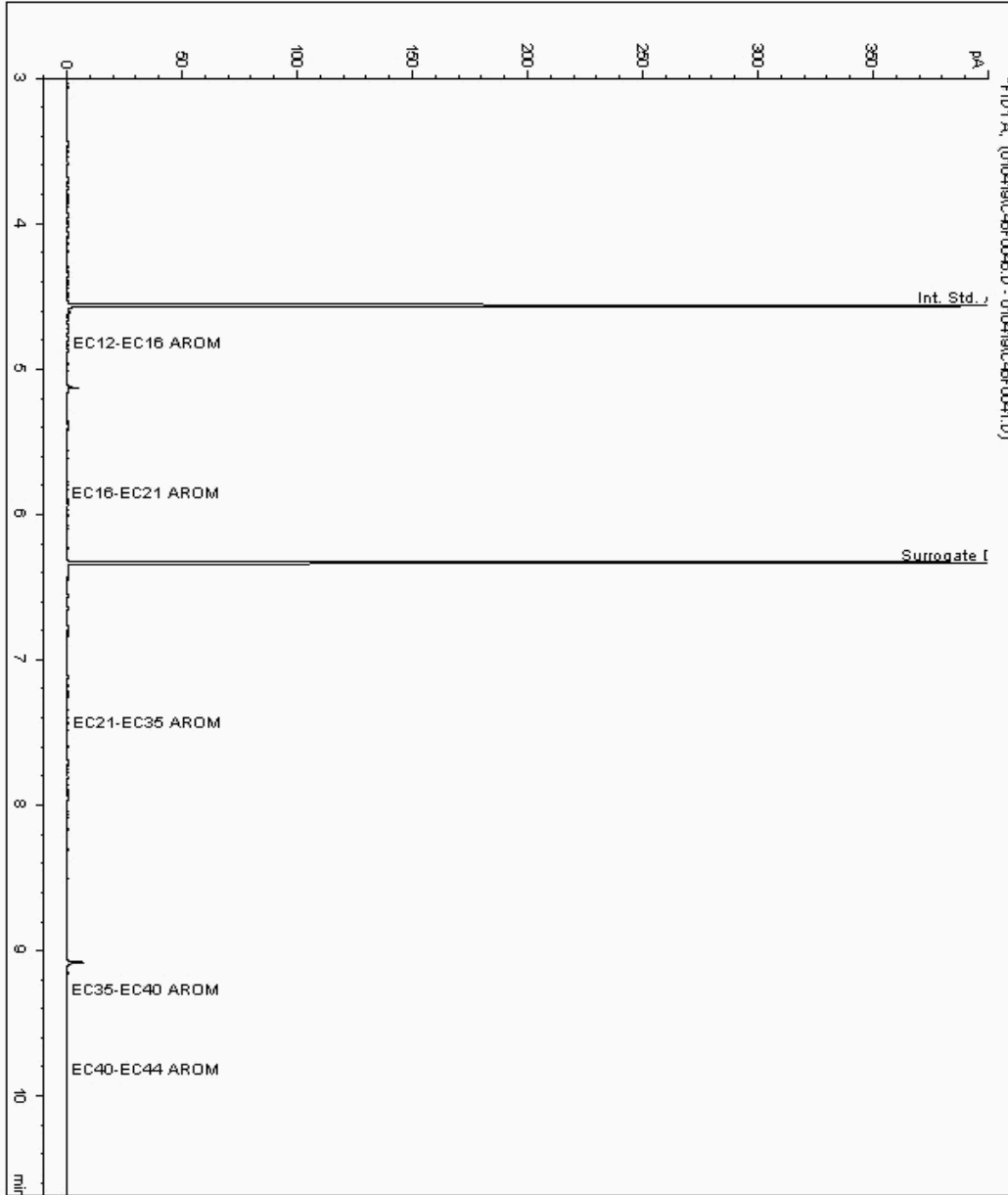
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020170
Sample ID : BH202

Depth : 11.50 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868491-
Date Acquired : 05/01/2019 00:02:56 PM
Units : ppb
Dilution: BH202[11.50 - 13.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

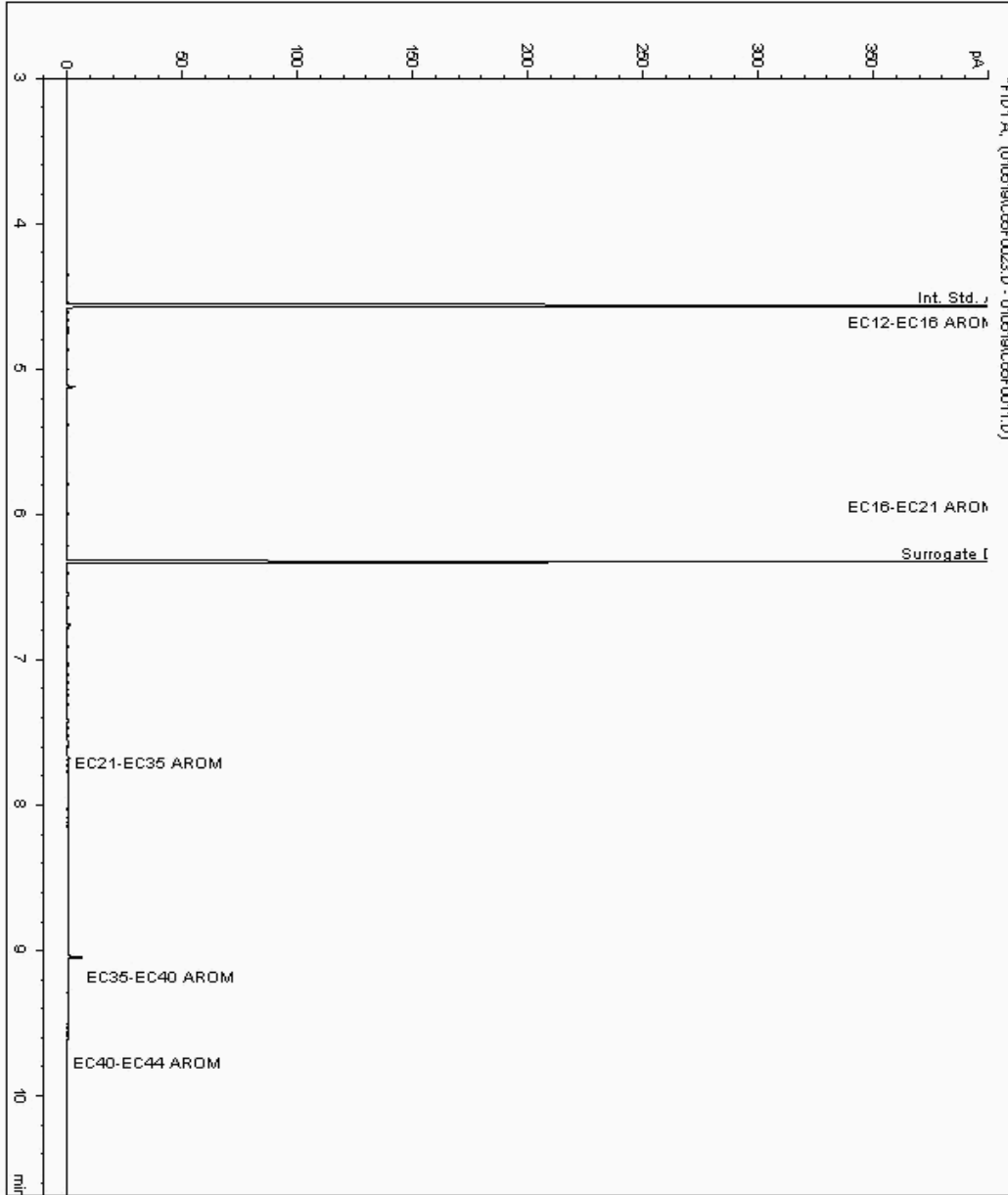
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020238
Sample ID : BH203

Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868736-
Date Acquired : 05/01/2019 16:24:13 PM
Units : ppb
Dilution: BH203[13.00 - 14.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

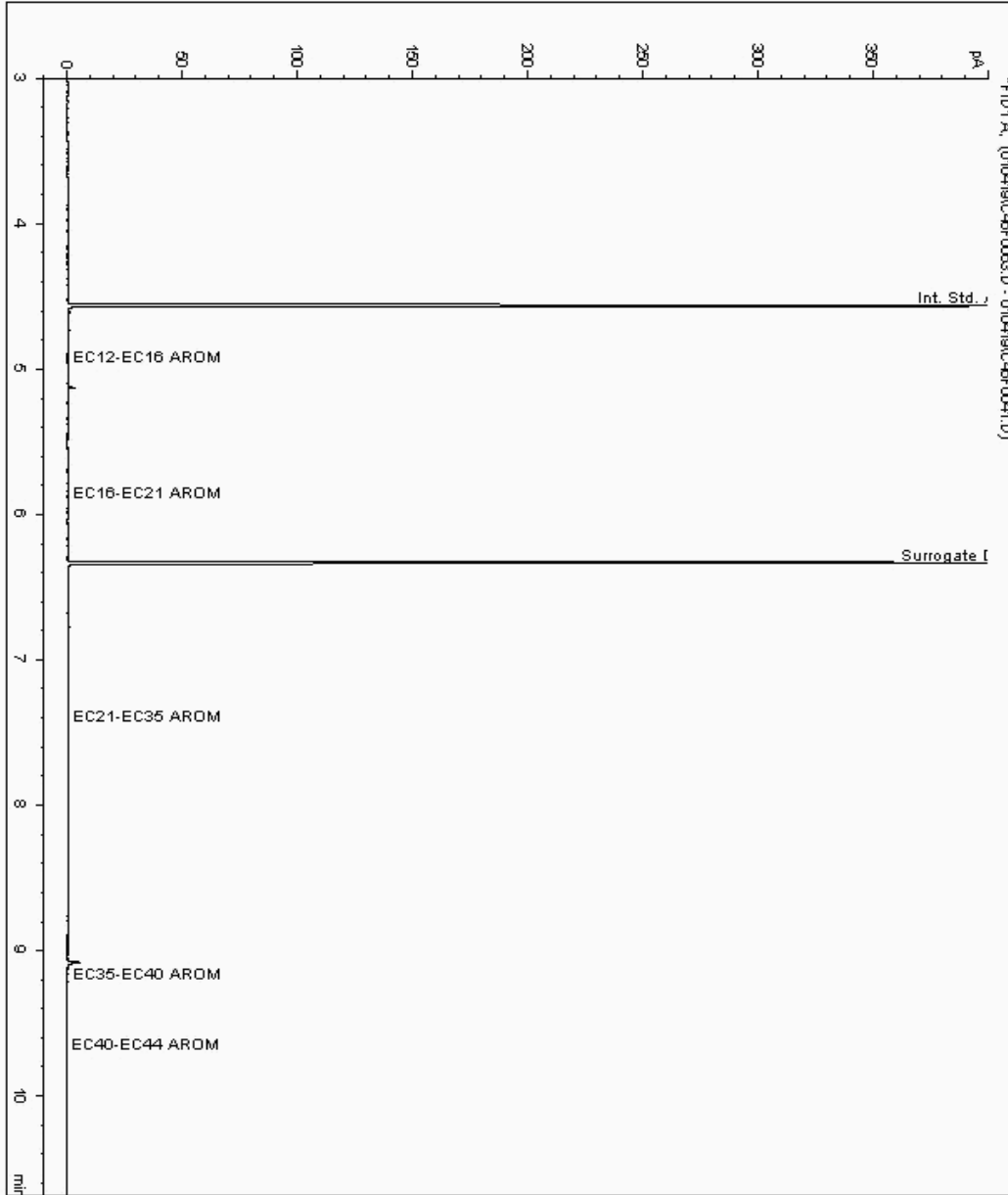
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020285
Sample ID : BH202

Depth : 15.00 - 17.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868469-
Date Acquired : 05/01/2019 05:37:01 PM
Units : ppb
Dilution: BH202[15.00 - 17.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

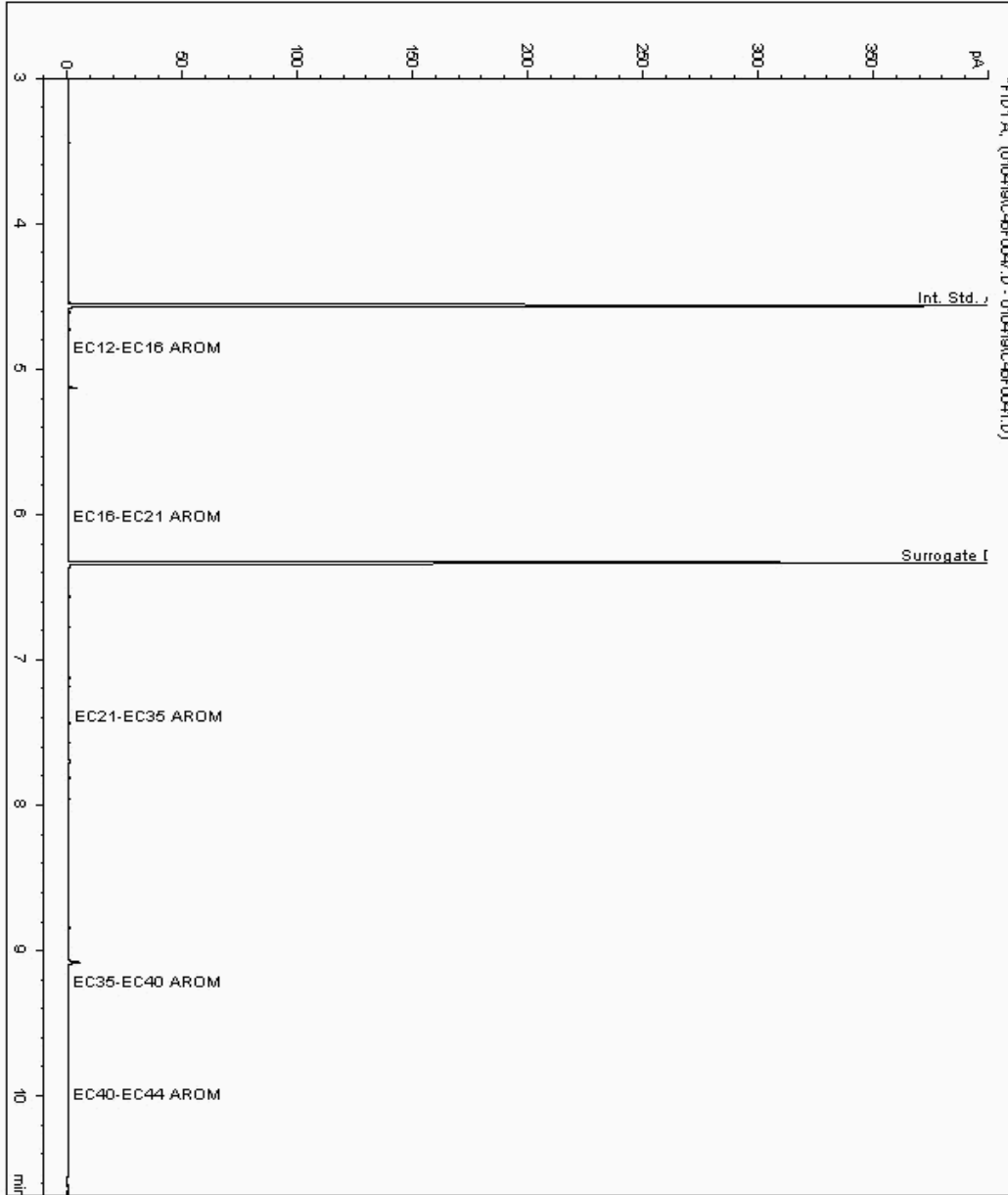
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020343
Sample ID : BH203

Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868805-
Date Acquired : 05/01/2019 00:42:32 PM
Units : ppb
Dilution: BH203[14.00 - 15.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

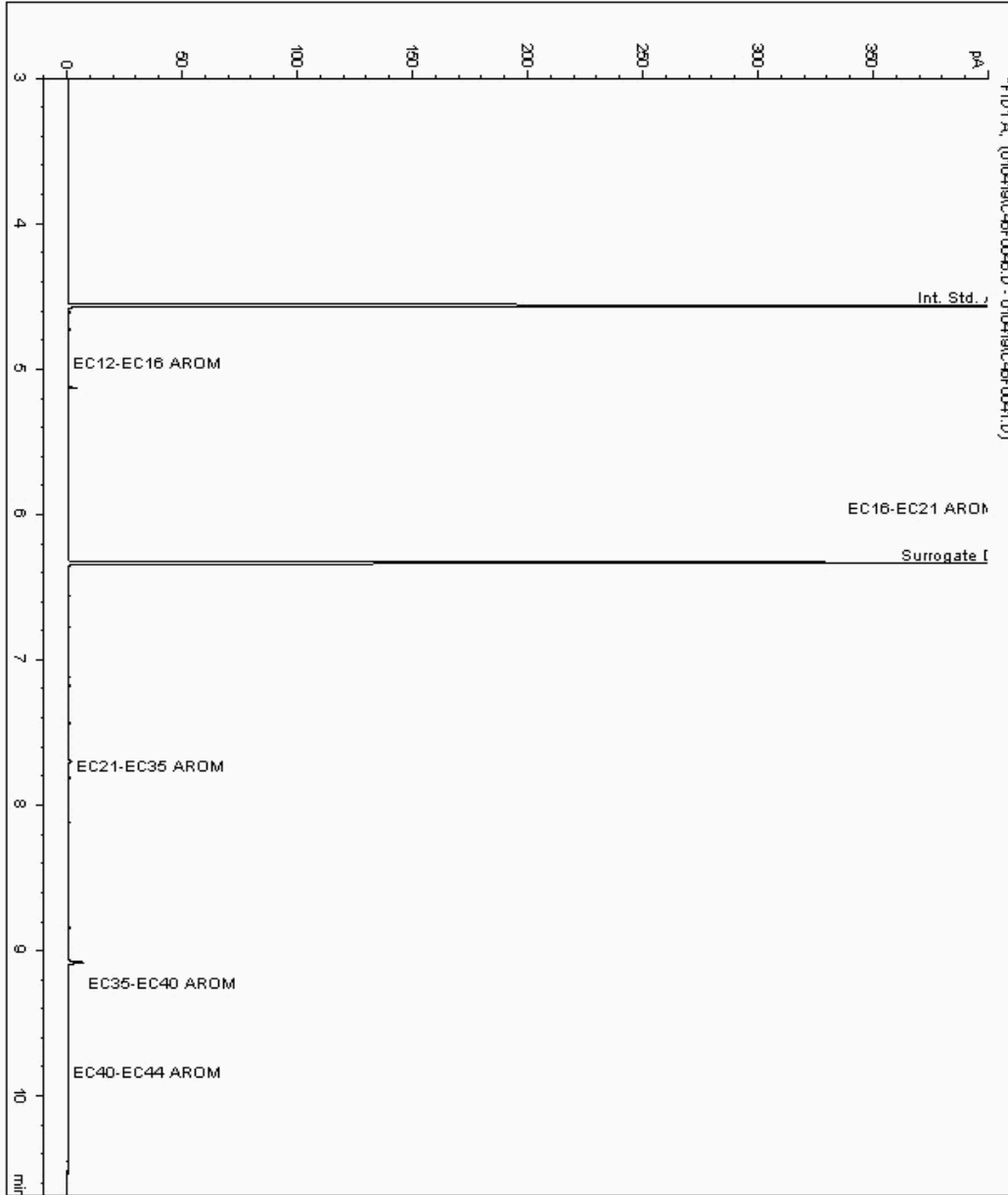
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020409
Sample ID : BH203

Depth : 15.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868856-
Date Acquired : 05/01/2019 00:22:46 PM
Units : ppb
Dilution: BH203[15.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

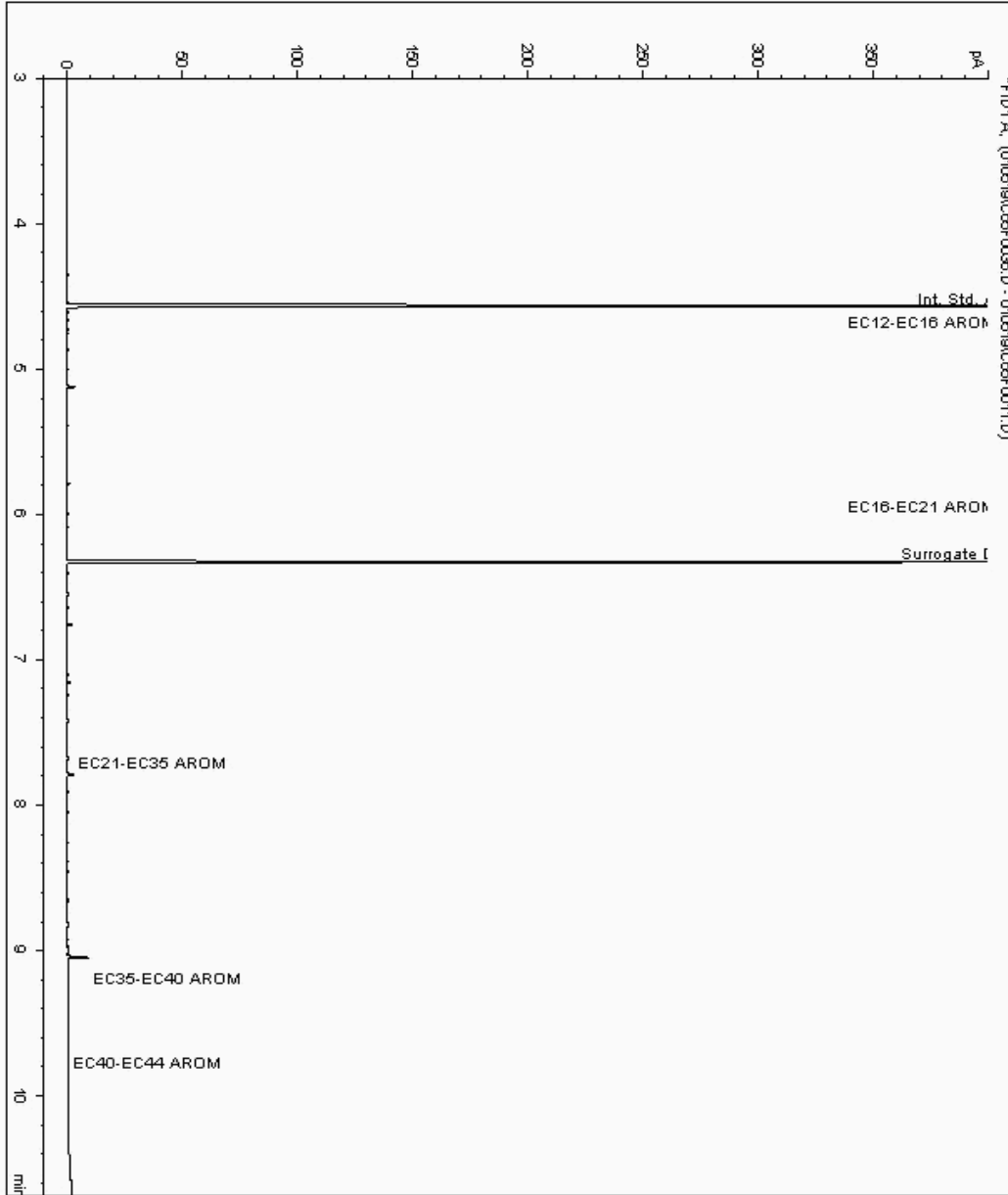
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19020473
Sample ID : BH204

Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868903-
Date Acquired : 05/01/2019 19:53:41 PM
Units : ppb
Dilution: BH204[14.00 - 15.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

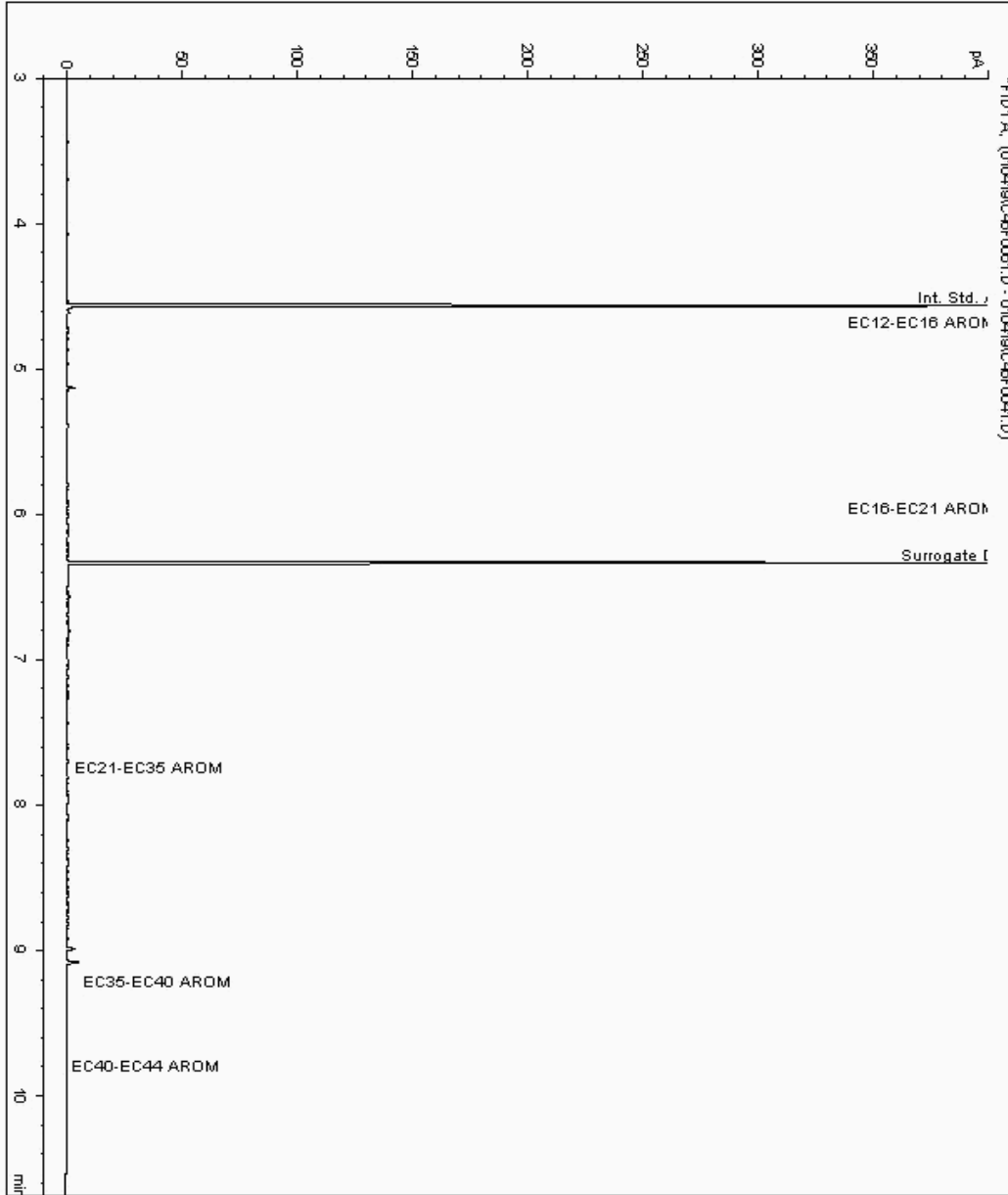
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021131
Sample ID : BH204

Depth : 5.80 - 7.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869271-
Date Acquired : 05/01/2019 04:57:30 PM
Units : ppb
Dilution: BH204[5.80 - 7.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

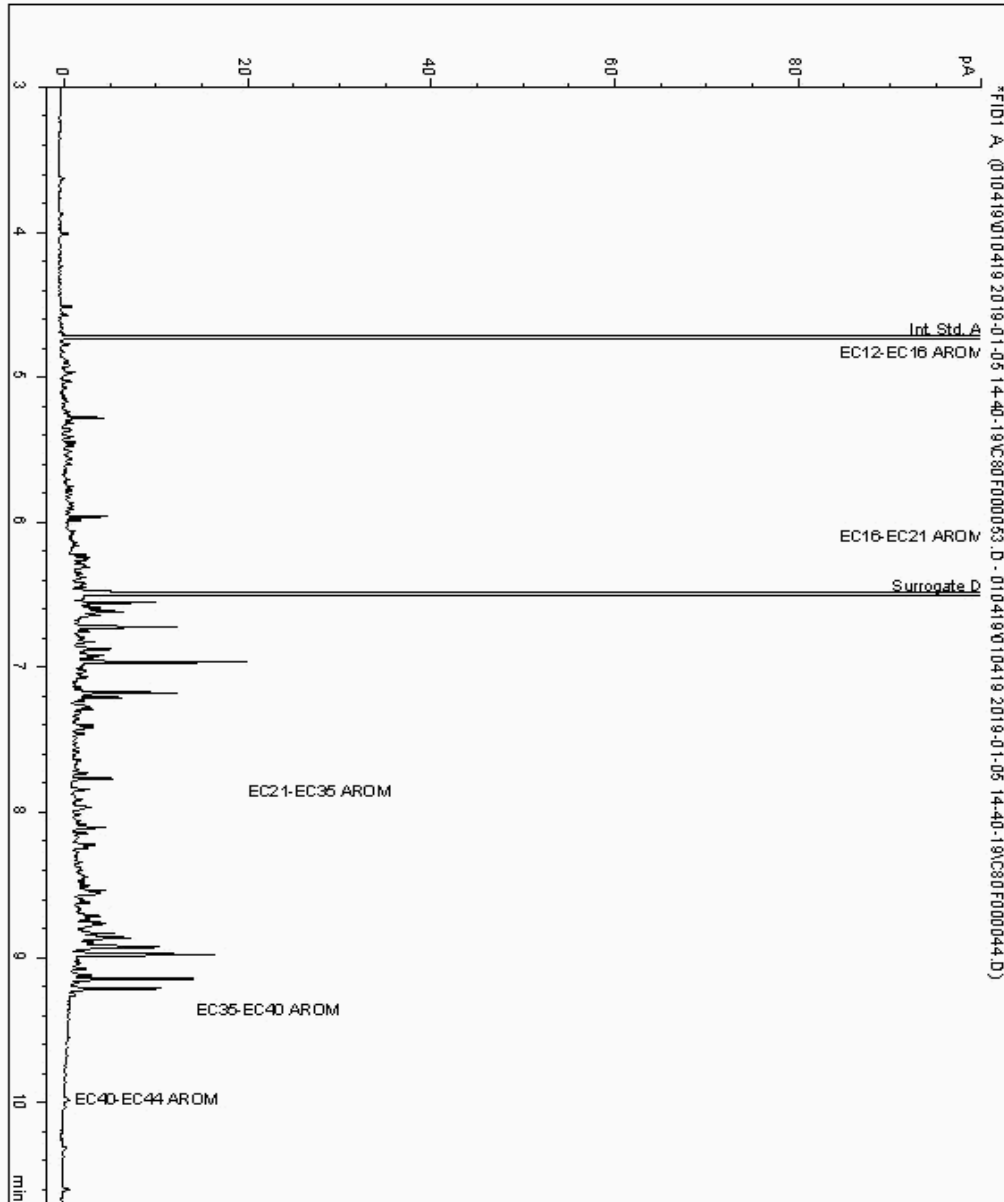
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021218
Sample ID : BH204

Depth : 4.00 - 5.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17869223-
Date Acquired : 05/01/19 18:40:11
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

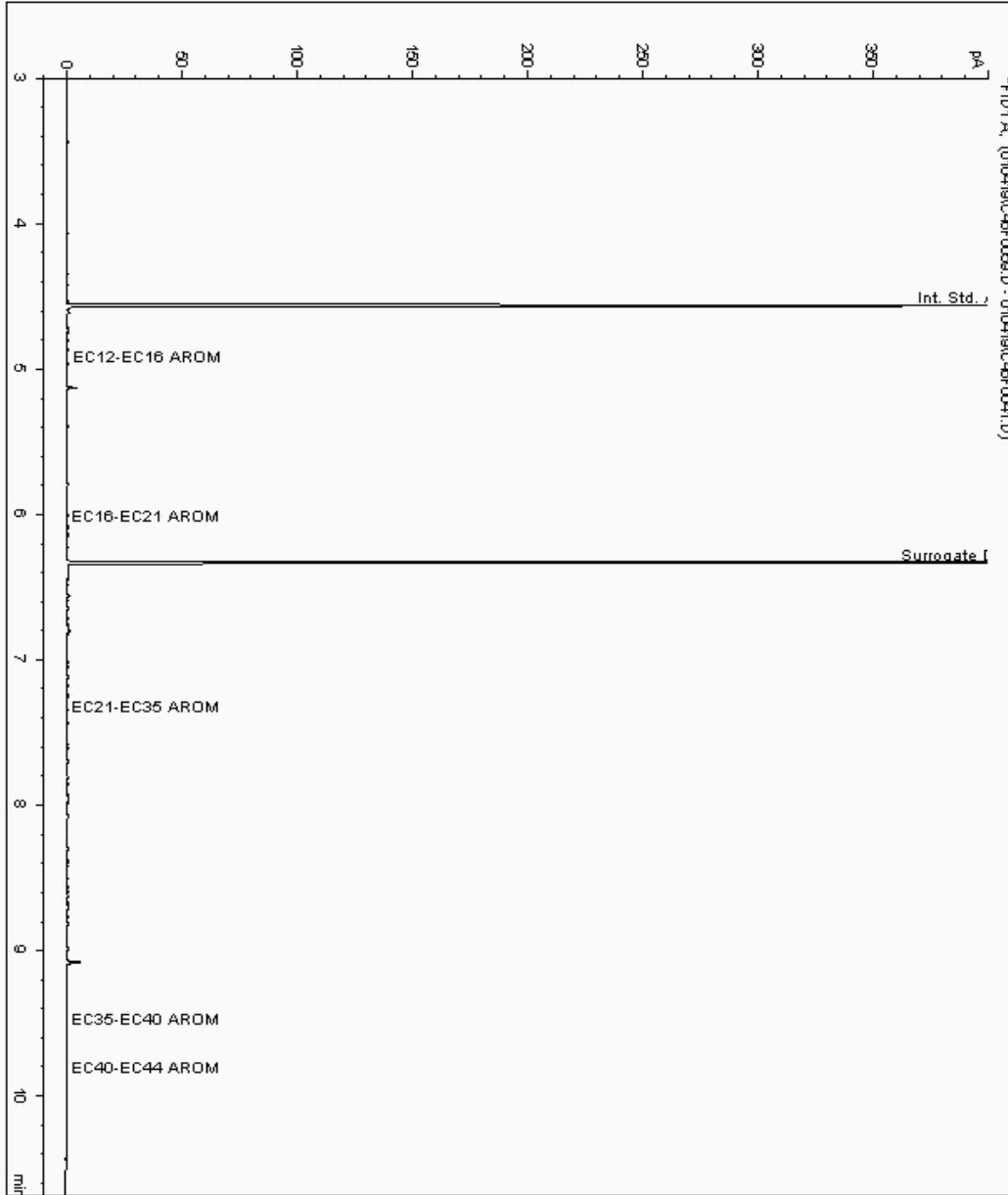
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021362
Sample ID : BH204

Depth : 8.00 - 10.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869320-
Date Acquired : 05/01/2019 04:17:41 PM
Units : ppb
Dilution: BH204[8.00 - 10.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

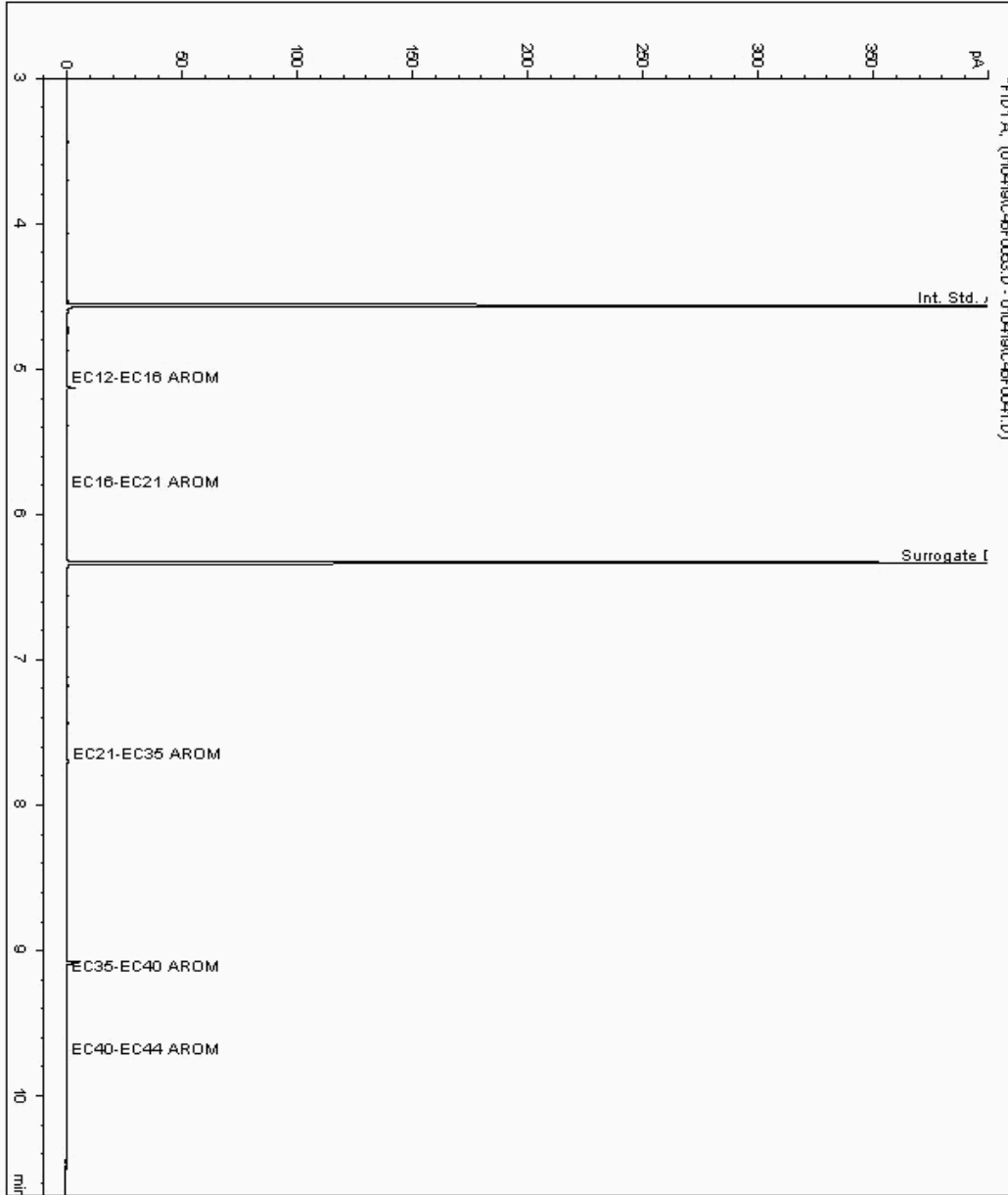
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19021541
Sample ID : BH204

Depth : 11.00 - 12.50

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869351-
Date Acquired : 05/01/2019 02:33:56 PM
Units : ppb
Dilution: BH204[11.00 - 12.50] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

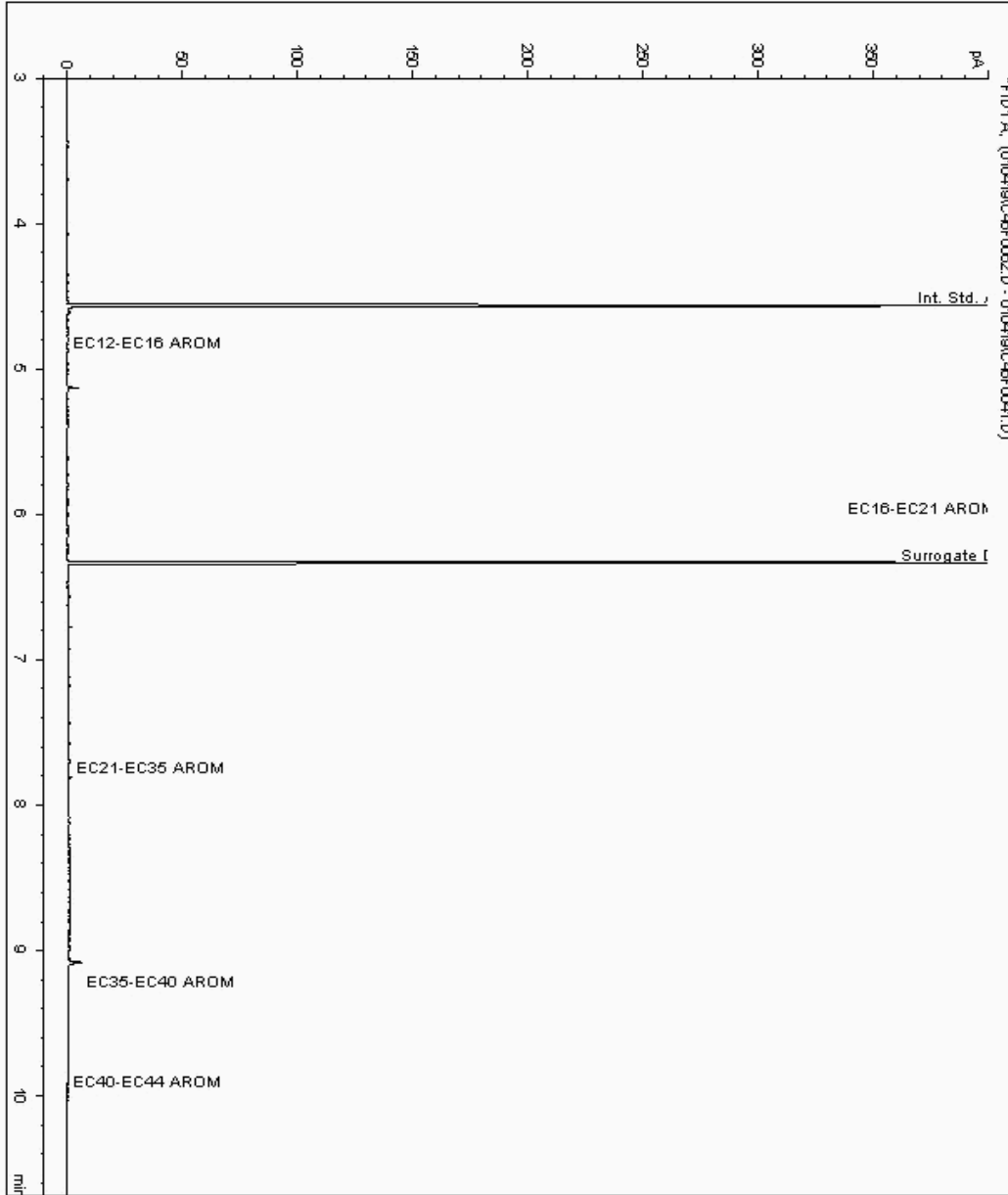
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022402
Sample ID : BH201

Depth : 13.00 - 14.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868513-
Date Acquired : 05/01/2019 05:17:16 PM
Units : ppb
Dilution: BH201[13.00 - 14.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

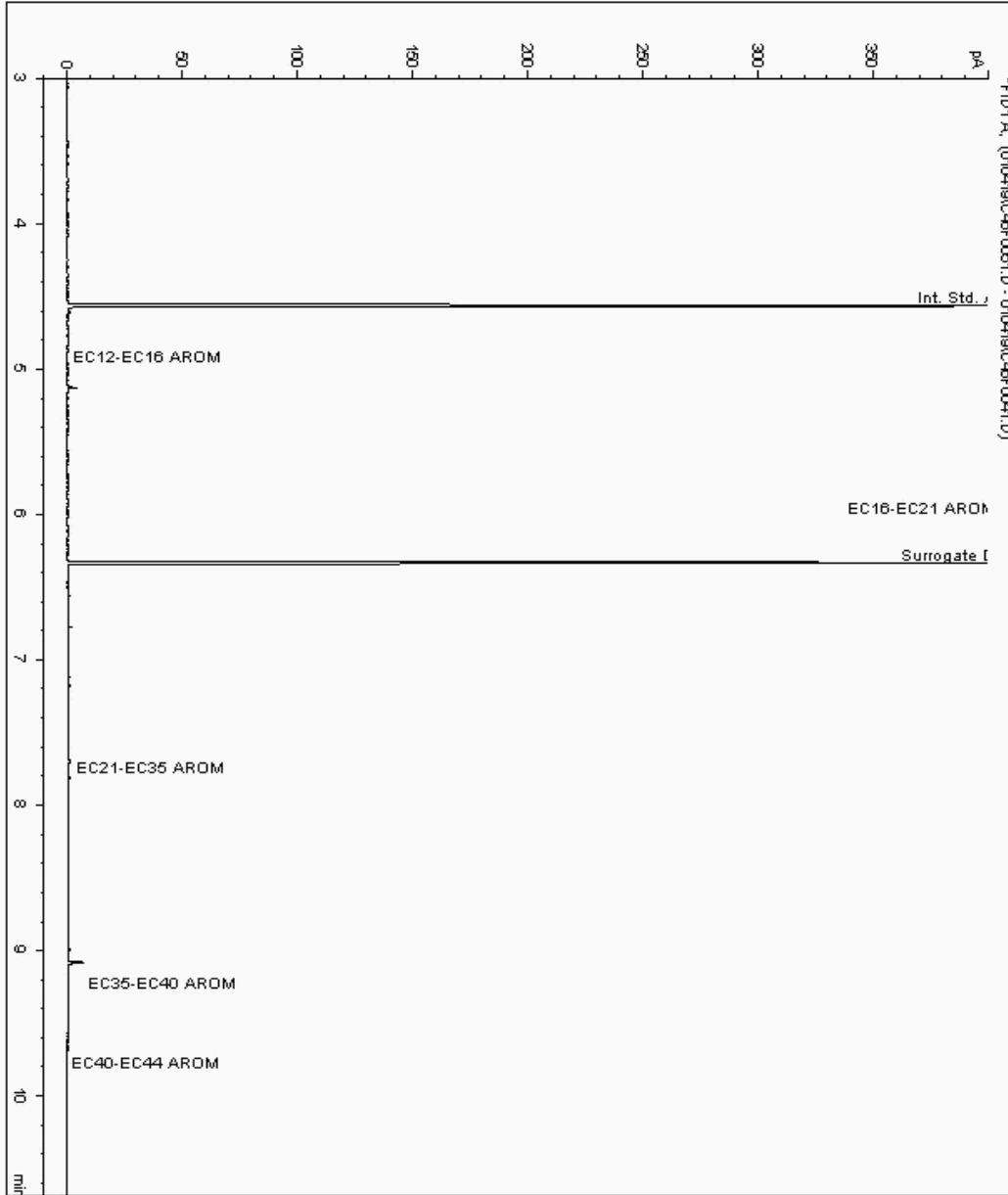
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022452
Sample ID : BH201

Depth : 14.00 - 15.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17868538-
Date Acquired : 05/01/2019 01:54:21 PM
Units : ppb
Dilution: BH201[14.00 - 15.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

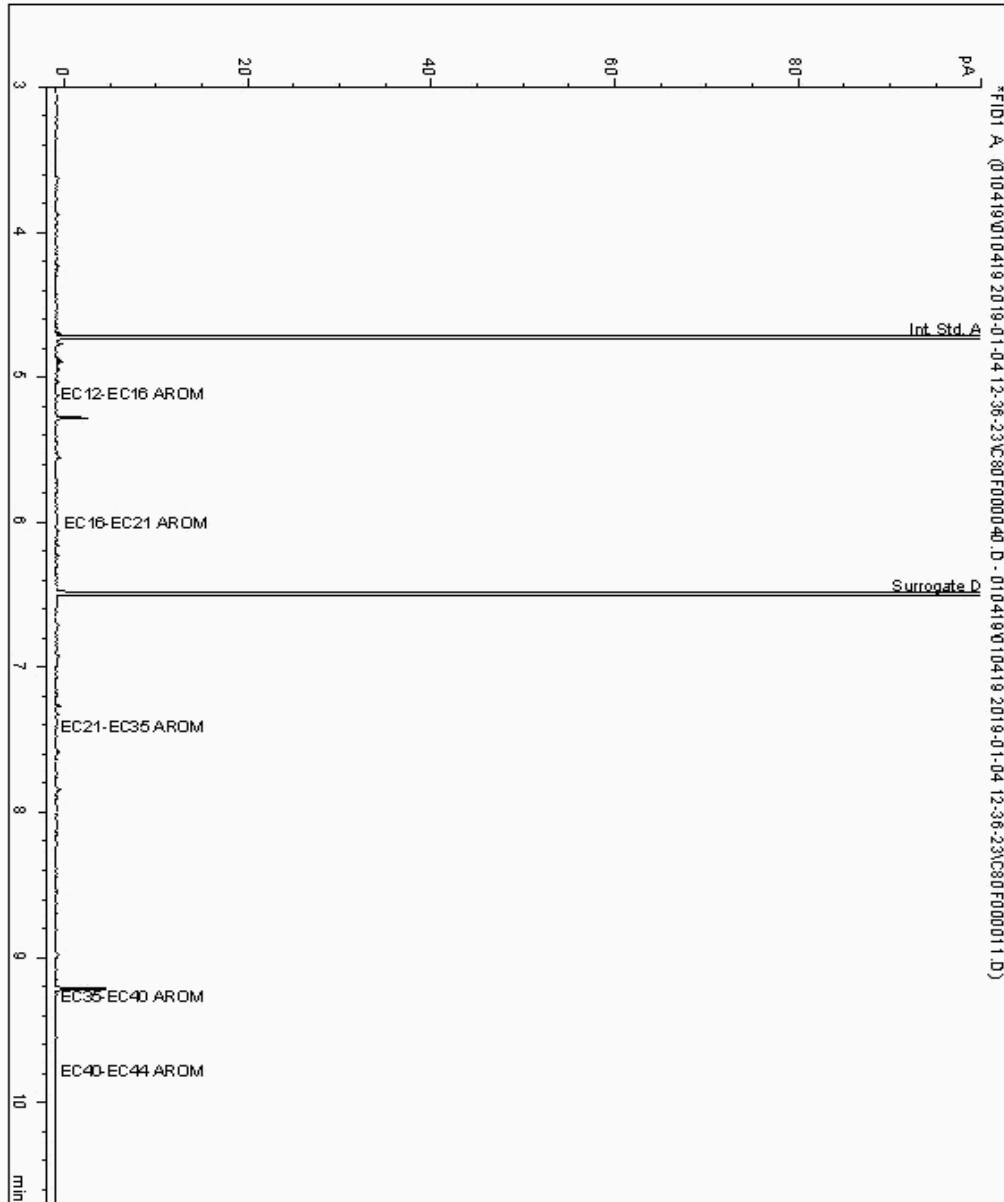
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022584
Sample ID : BH210

Depth : 11.00 - 12.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17869438-
Date Acquired : 04/01/19 22:14:21
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

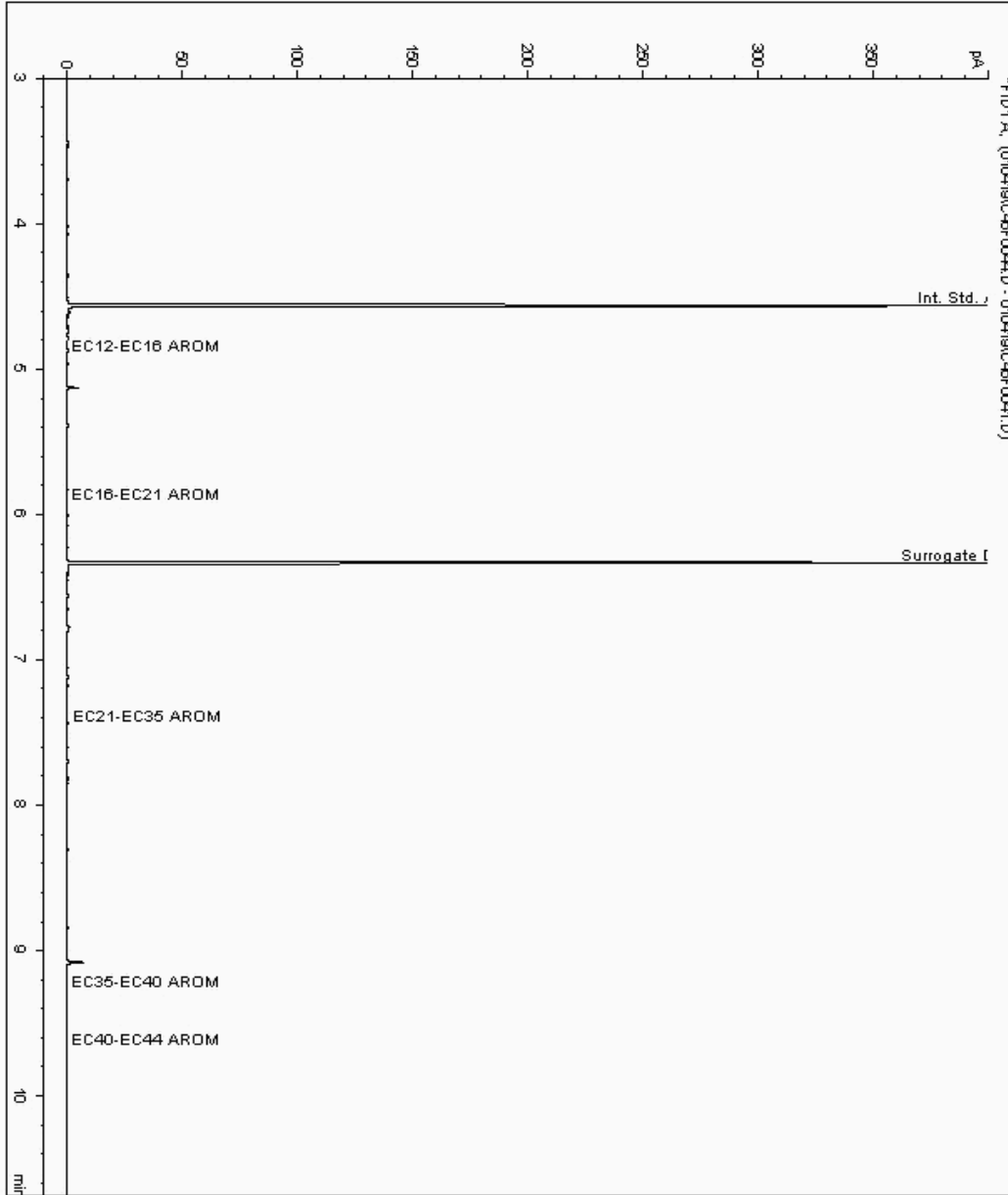
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022732
Sample ID : BH210

Depth : 10.00 - 11.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869546-
Date Acquired : 04/01/2019 23:43:10 PM
Units : ppb
Dilution: BH210[10.00 - 11.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

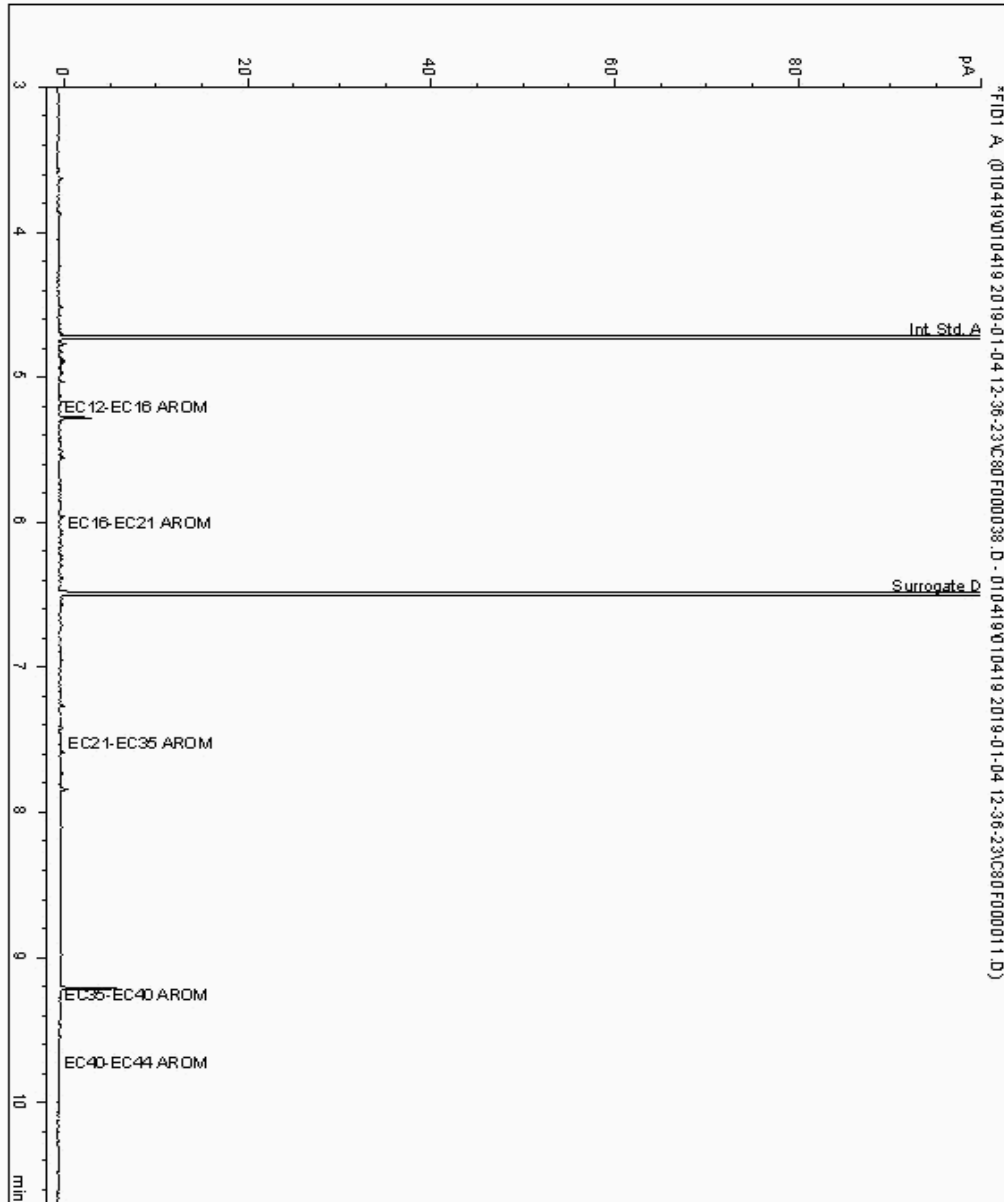
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022838
Sample ID : BH204

Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17869376-
Date Acquired : 04/01/19 21:35:01
Units : ppb
Dilution :
CF : 1
Multiplier : 0.950





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

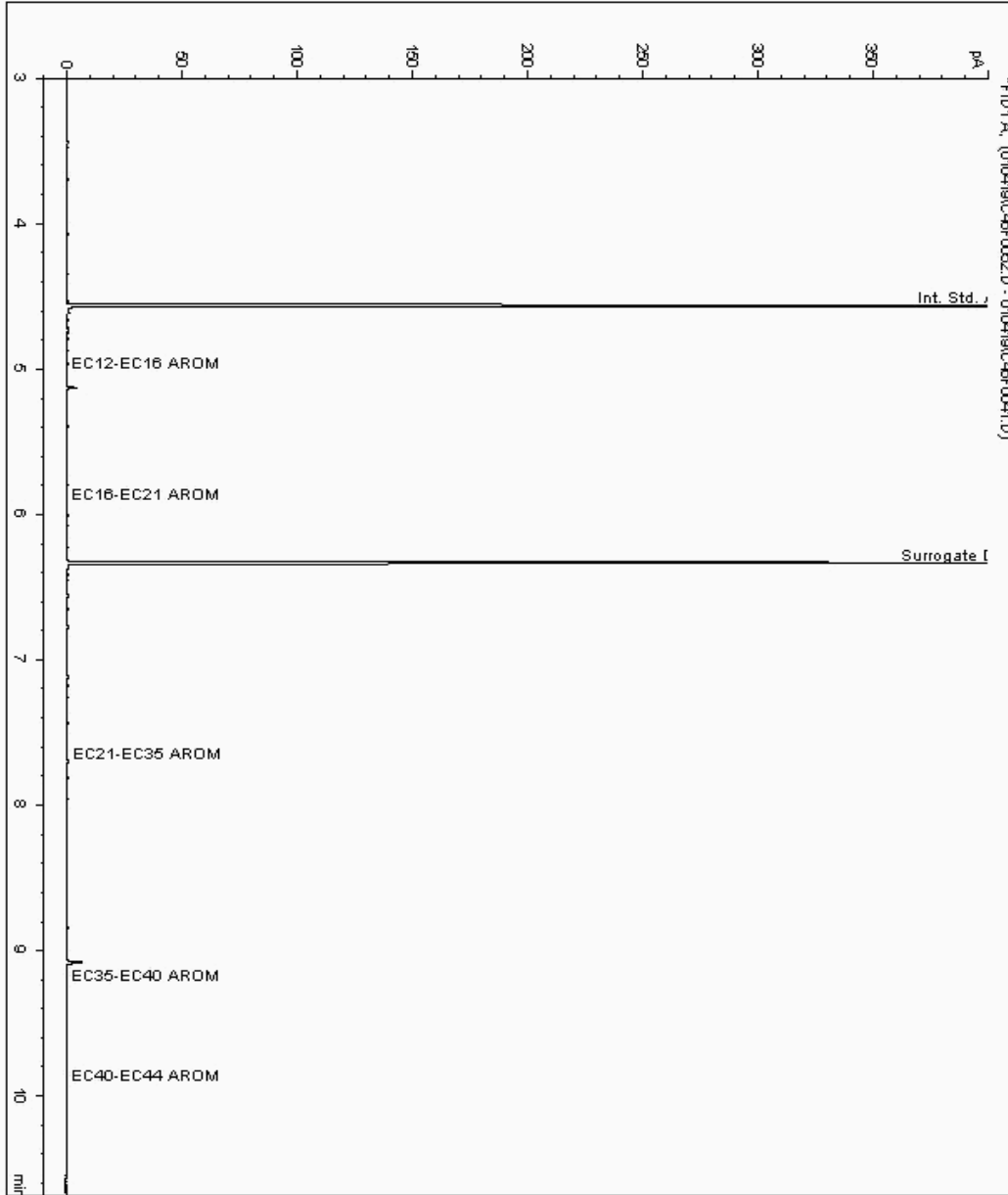
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19022903
Sample ID : BH210

Depth : 12.00 - 13.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17869470-
Date Acquired : 05/01/2019 02:14:08 PM
Units : ppb
Dilution: BH210[12.00 - 13.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

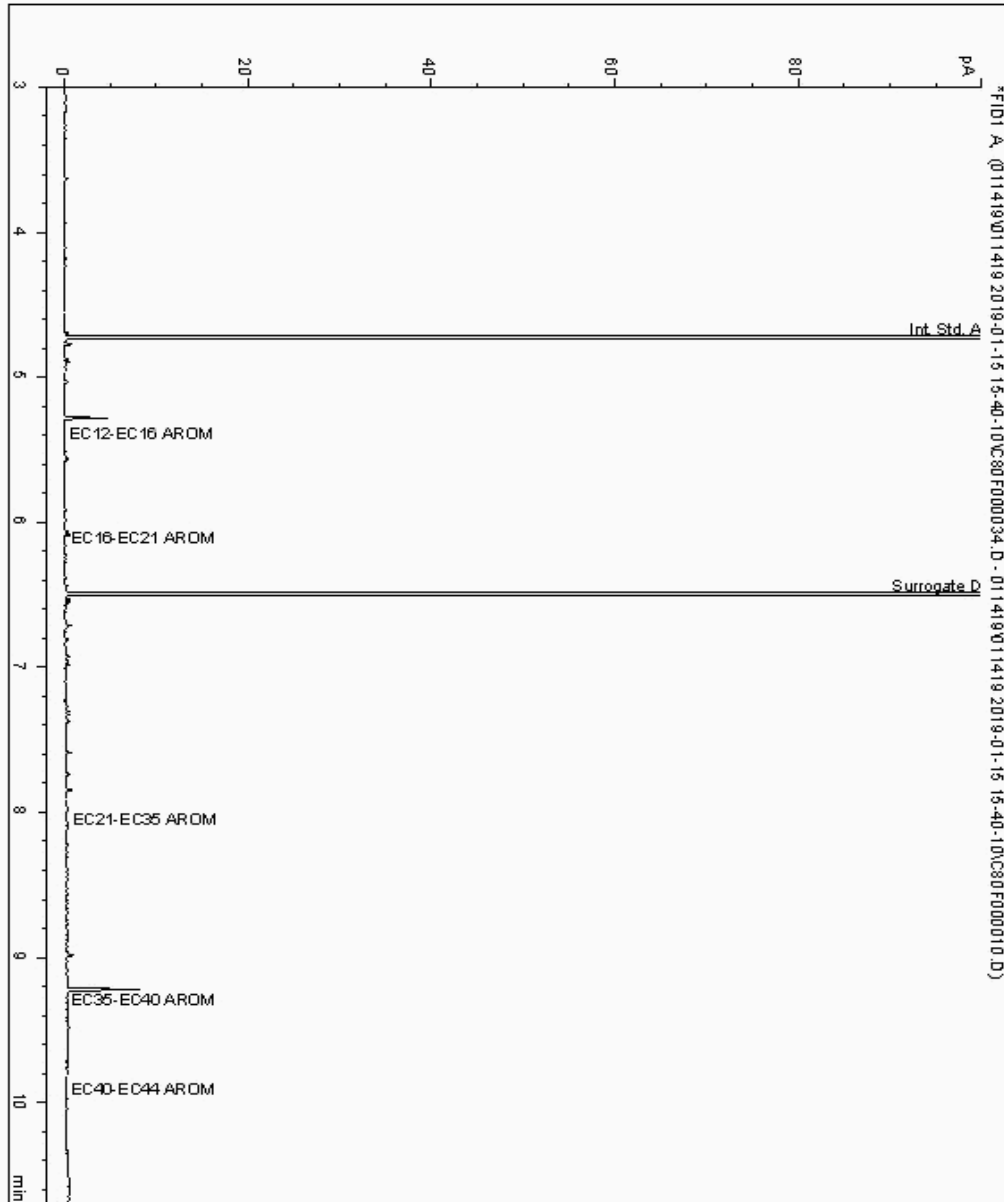
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19091381
Sample ID : BH205

Depth : 10.00 - 12.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17931565-
Date Acquired : 14/01/19 21:00:37
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

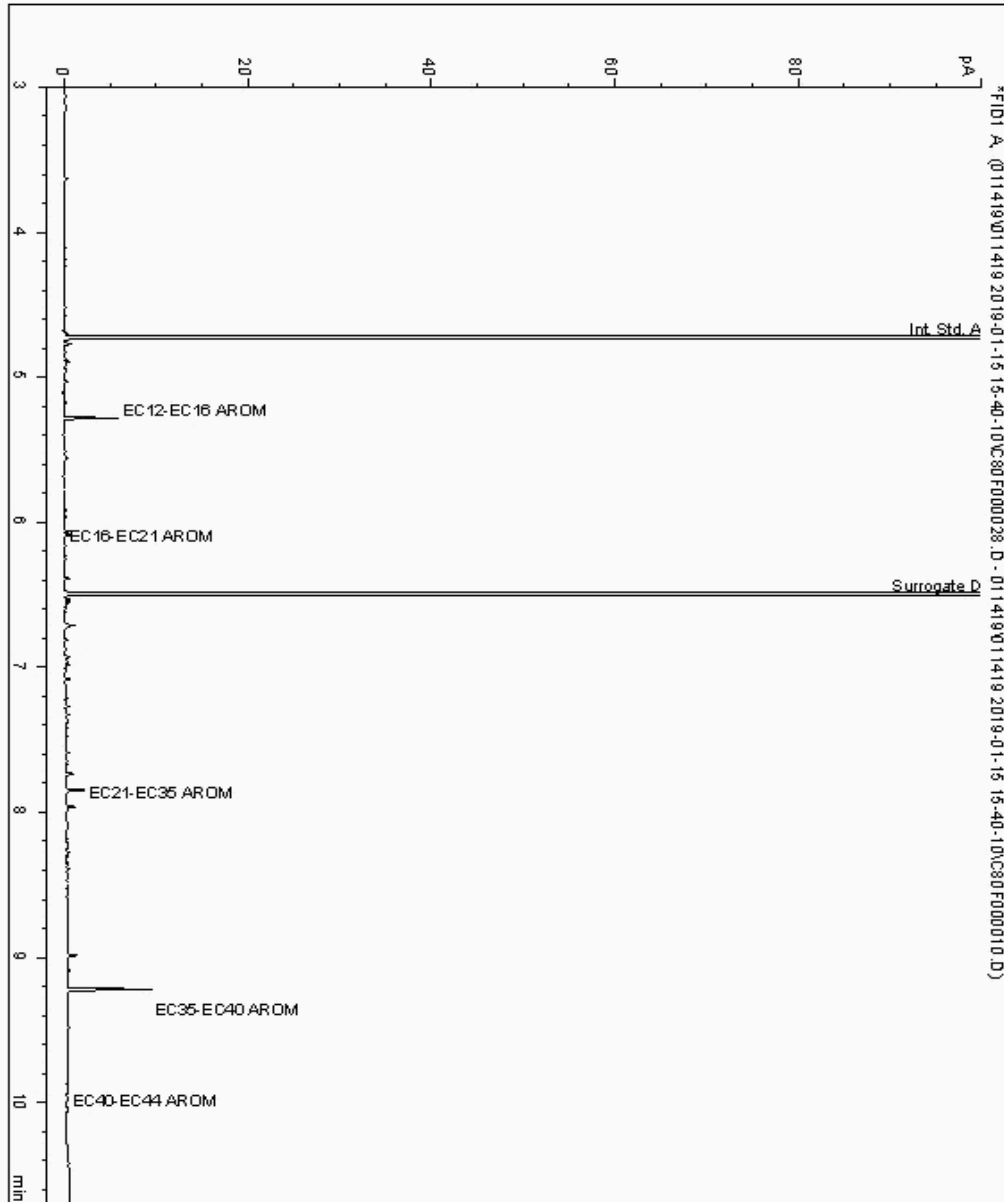
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19091858
Sample ID : BH205

Depth : 13.00 - 14.00

Speciated TPH - AROMS (C12 - C44)

Sample Identity: 17931597-
Date Acquired : 14/01/19 19:16:37
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

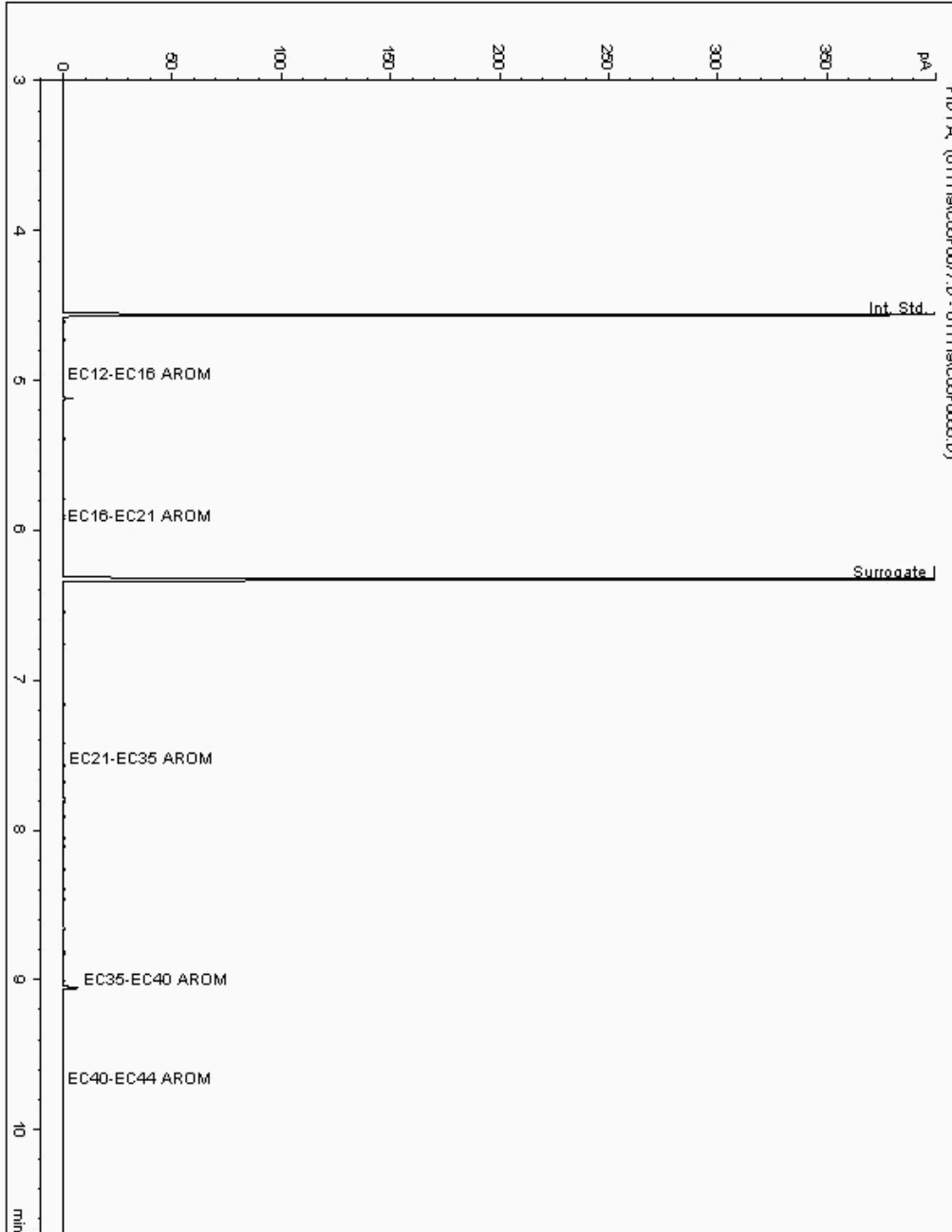
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 19091946
Sample ID : BH205

Depth : 14.00 - 16.00

Speciated TPH - AROM (C12 - C40)

Sample Identity: 17931619-
Date Acquired : 14/01/2019 21:43:00 PM
Units : ppb
Dilution: BH205[14.00 - 16.00] ->





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

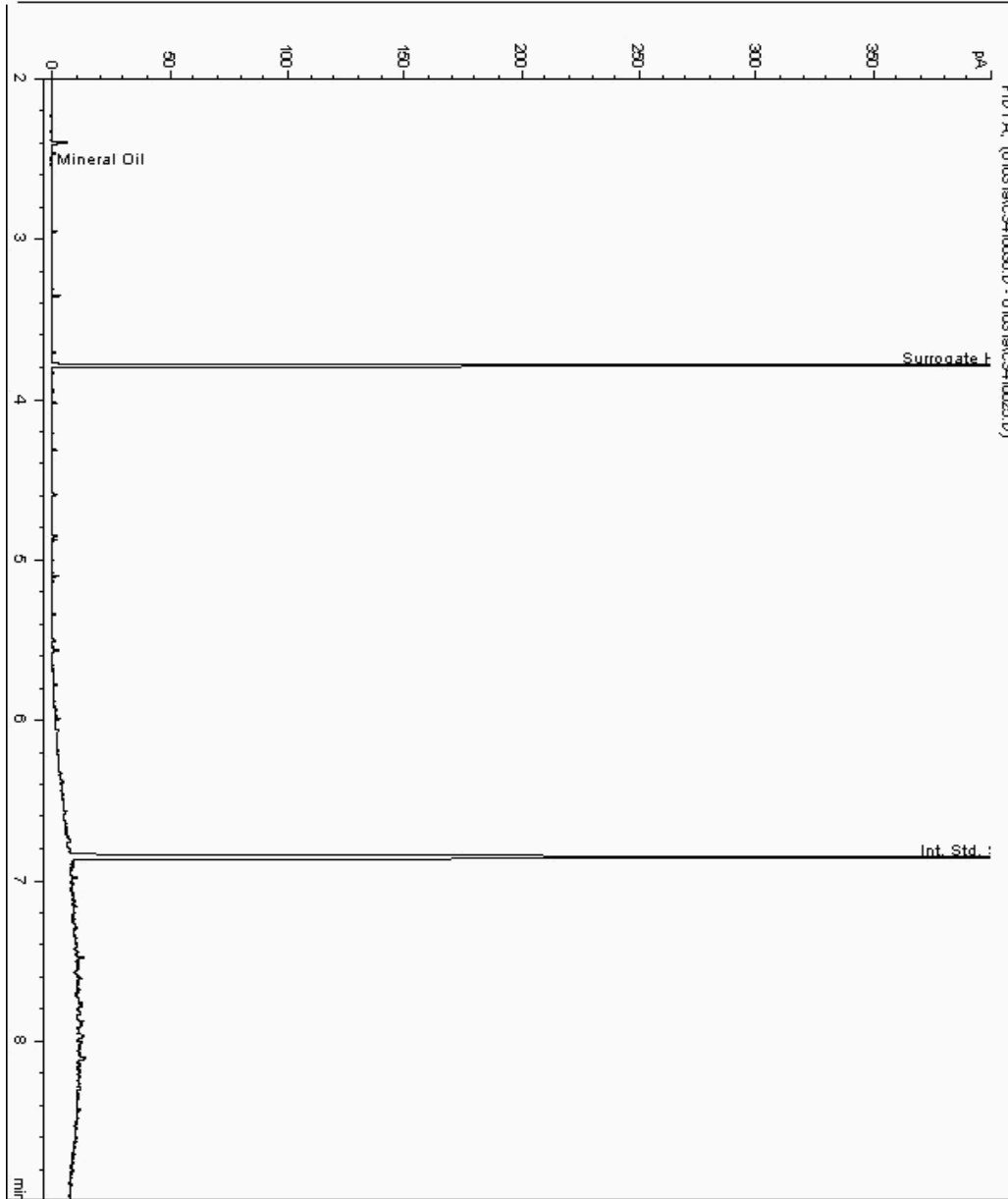
Analysis: Mineral Oil

Sample No : 19019500
Sample ID : BH201

Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868612-
Date Acquired : 03/01/19 18:23:39 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

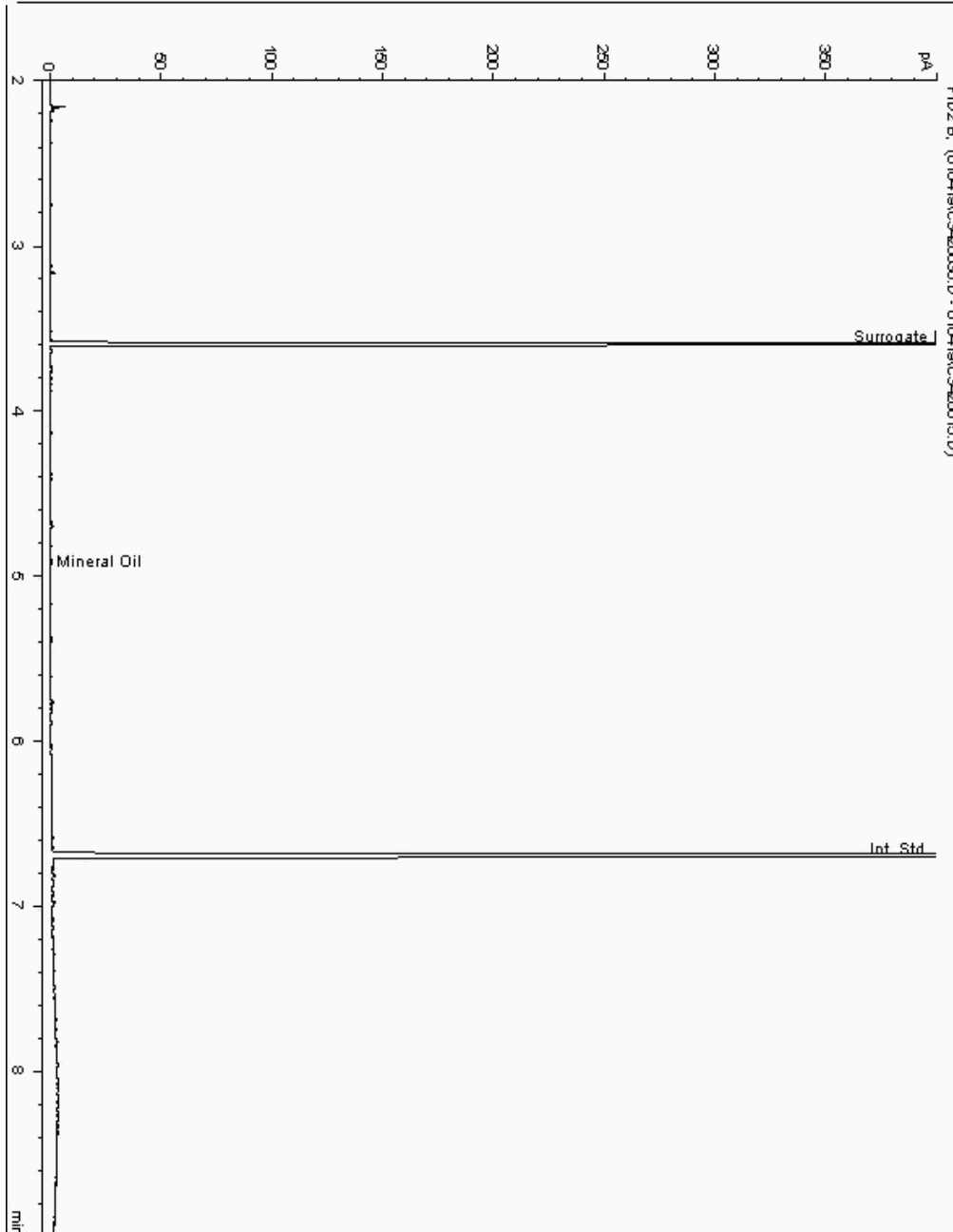
Analysis: Mineral Oil

Sample No : 19019544
Sample ID : BH202

Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868393-
Date Acquired : 04/01/2019 23:23:28 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

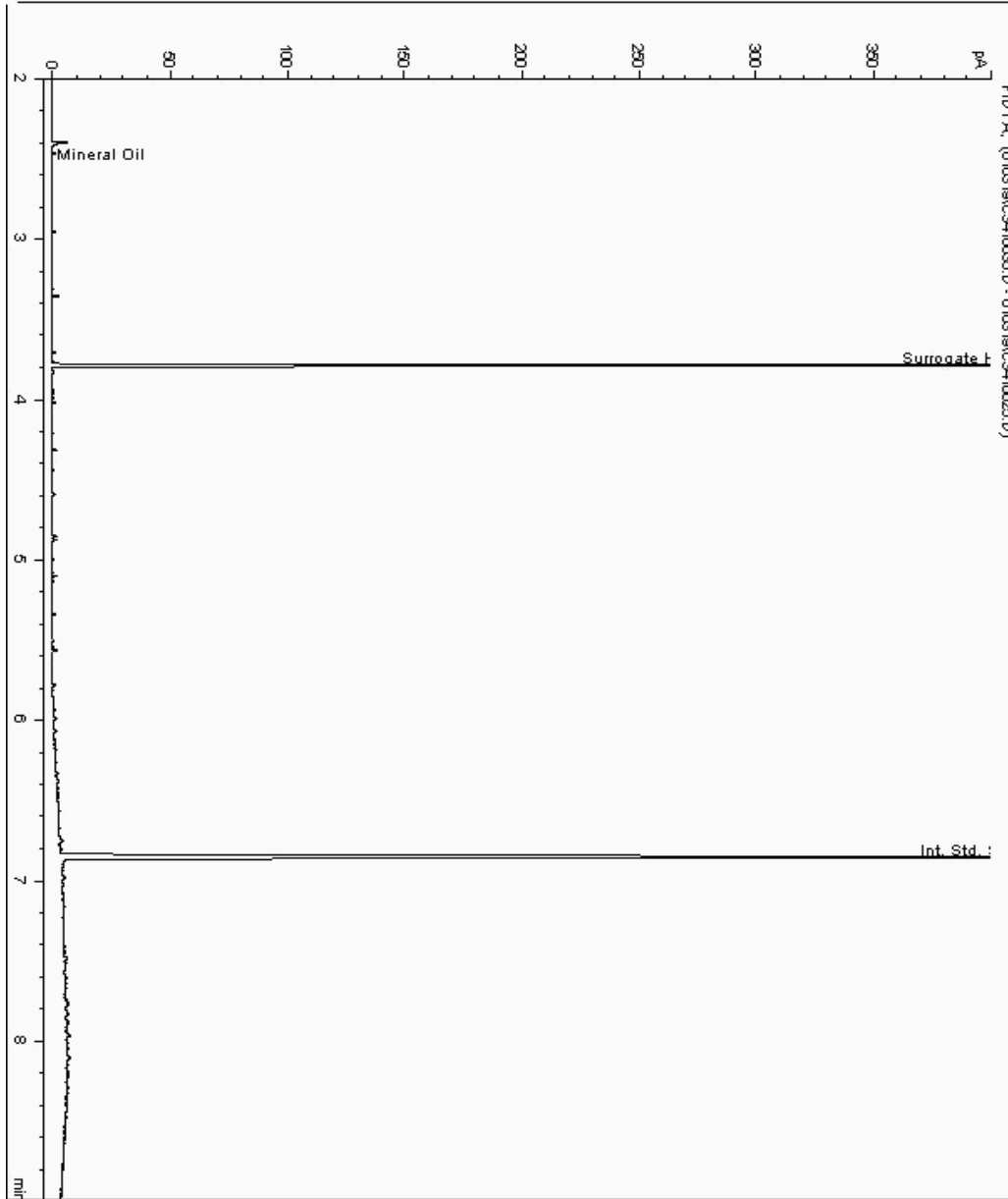
Analysis: Mineral Oil

Sample No : 19019637
Sample ID : BH201

Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868565-
Date Acquired : 03/01/19 19:55:05 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

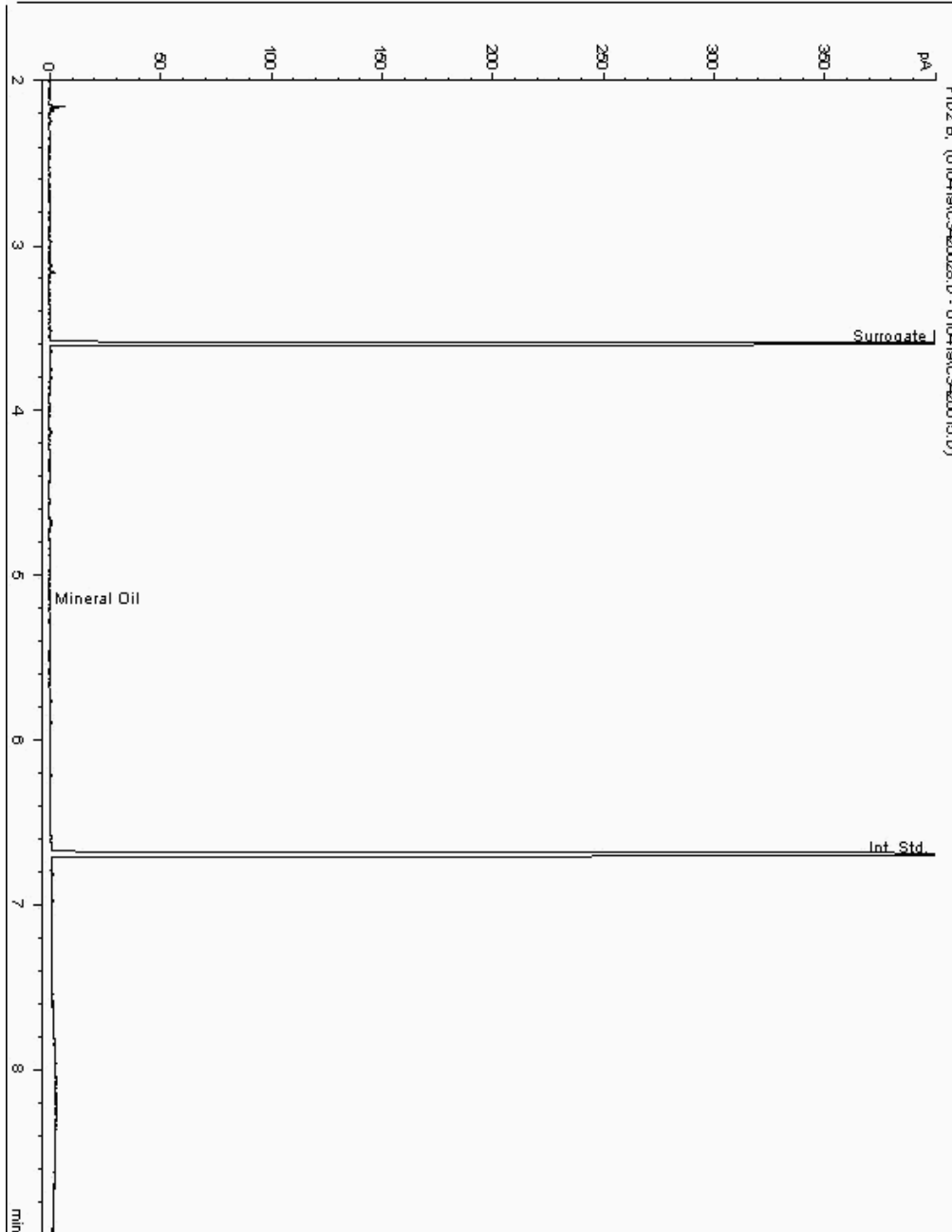
Analysis: Mineral Oil

Sample No : 19019650
Sample ID : BH202

Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868447-
Date Acquired : 04/01/2019 22:51:10 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

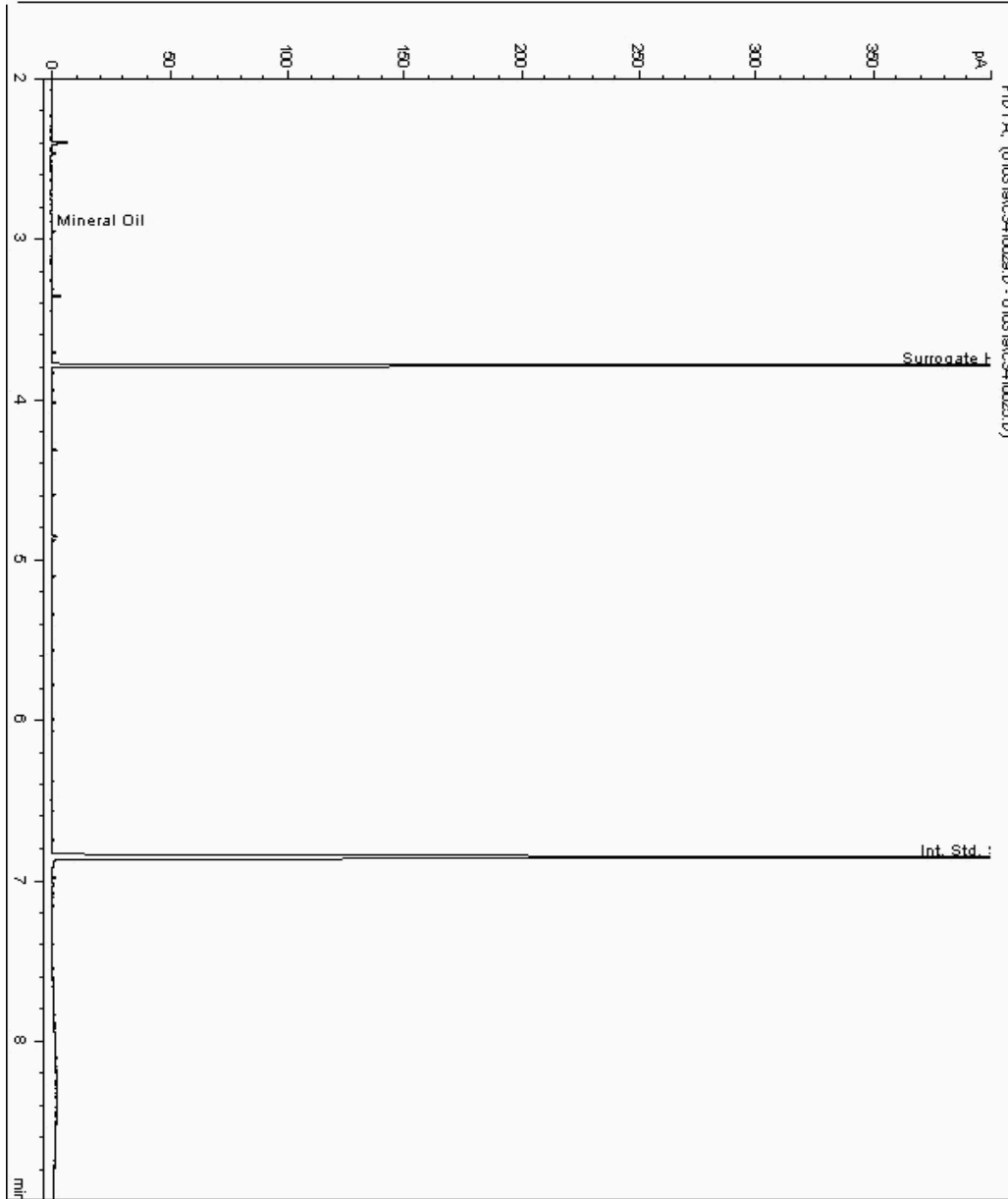
Analysis: Mineral Oil

Sample No : 19019746
Sample ID : BH204

Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868960-
Date Acquired : 03/01/19 18:03:41 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

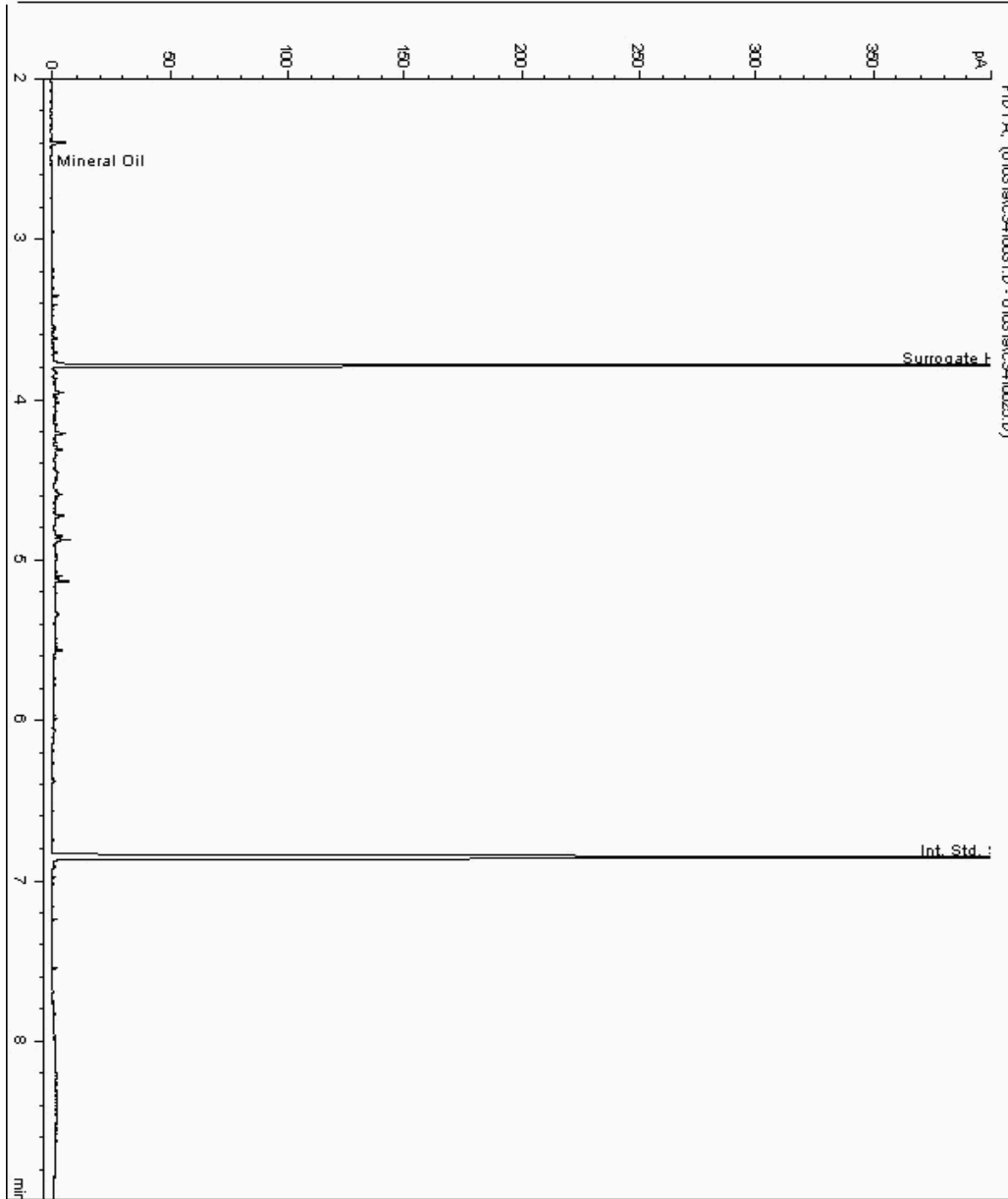
Analysis: Mineral Oil

Sample No : 19019758
Sample ID : BH204

Depth : 3.00 - 4.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869188-
Date Acquired : 03/01/19 18:43:32 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

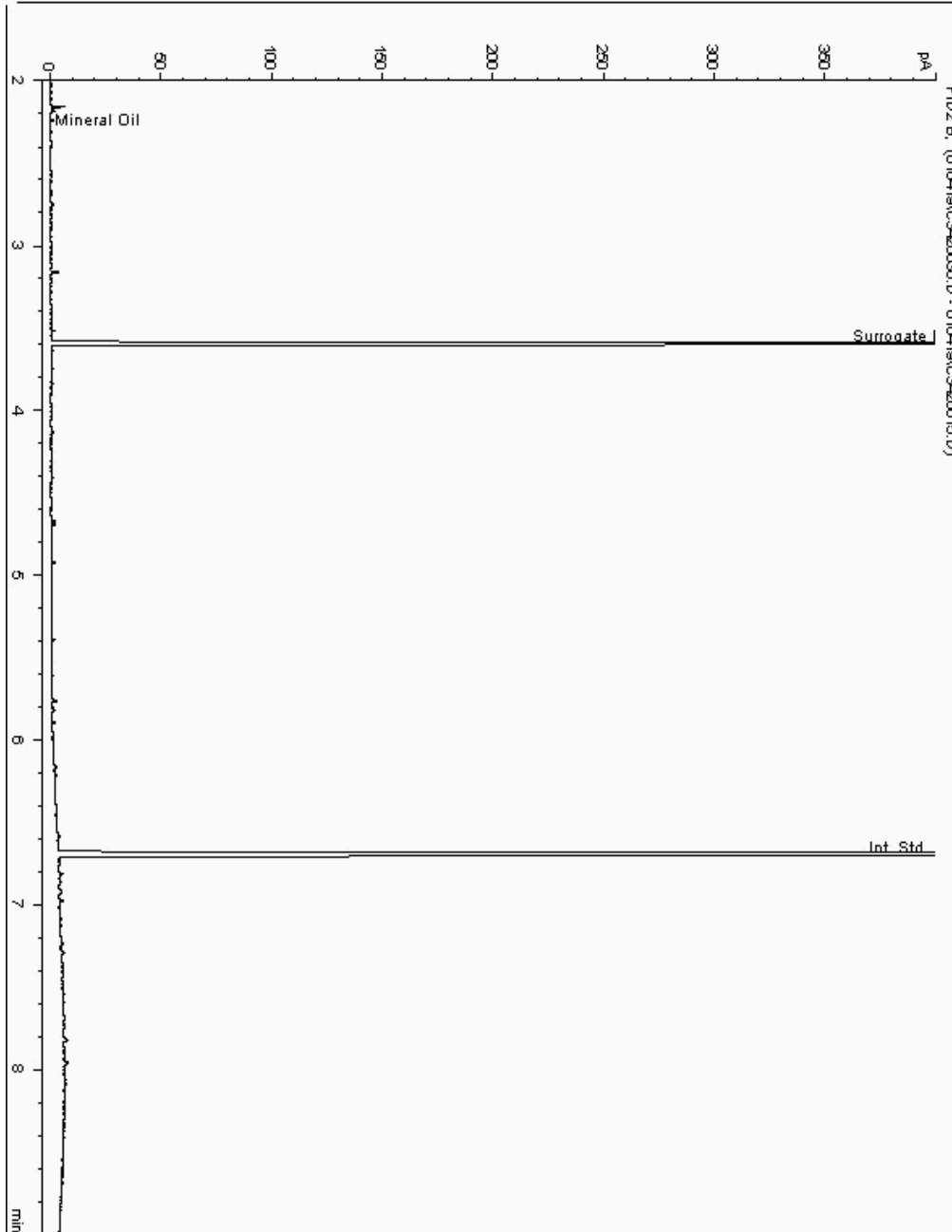
Analysis: Mineral Oil

Sample No : 19019768
Sample ID : BH210

Depth : 16.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869414-
Date Acquired : 05/01/2019 01:08:25 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

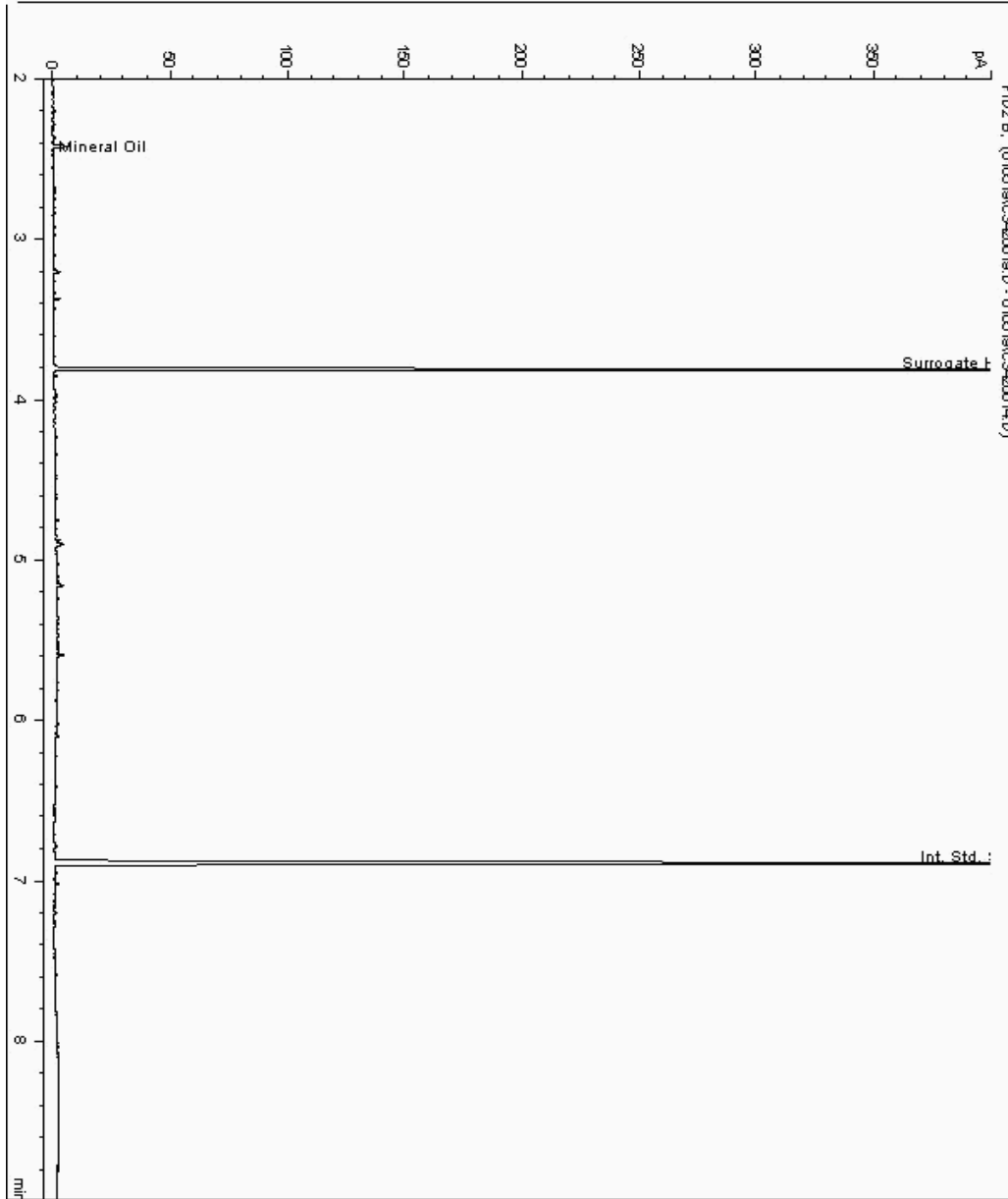
Analysis: Mineral Oil

Sample No : 19019867
Sample ID : BH204

Depth : 0.00 - 0.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869026-
Date Acquired : 05/01/19 15:29:39 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

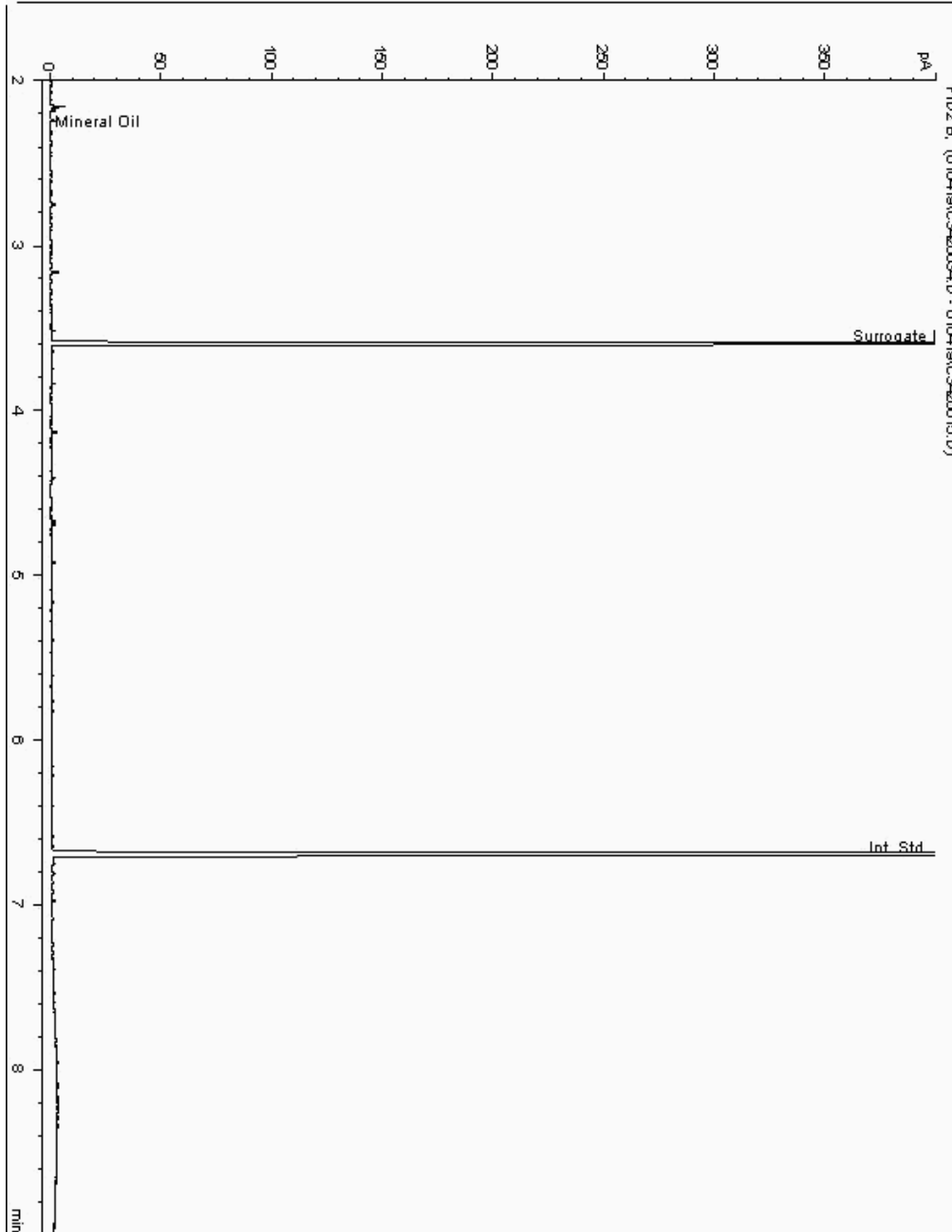
Analysis: Mineral Oil

Sample No : 19019888
Sample ID : BH210

Depth : 13.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869500-
Date Acquired : 05/01/2019 00:36:16 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

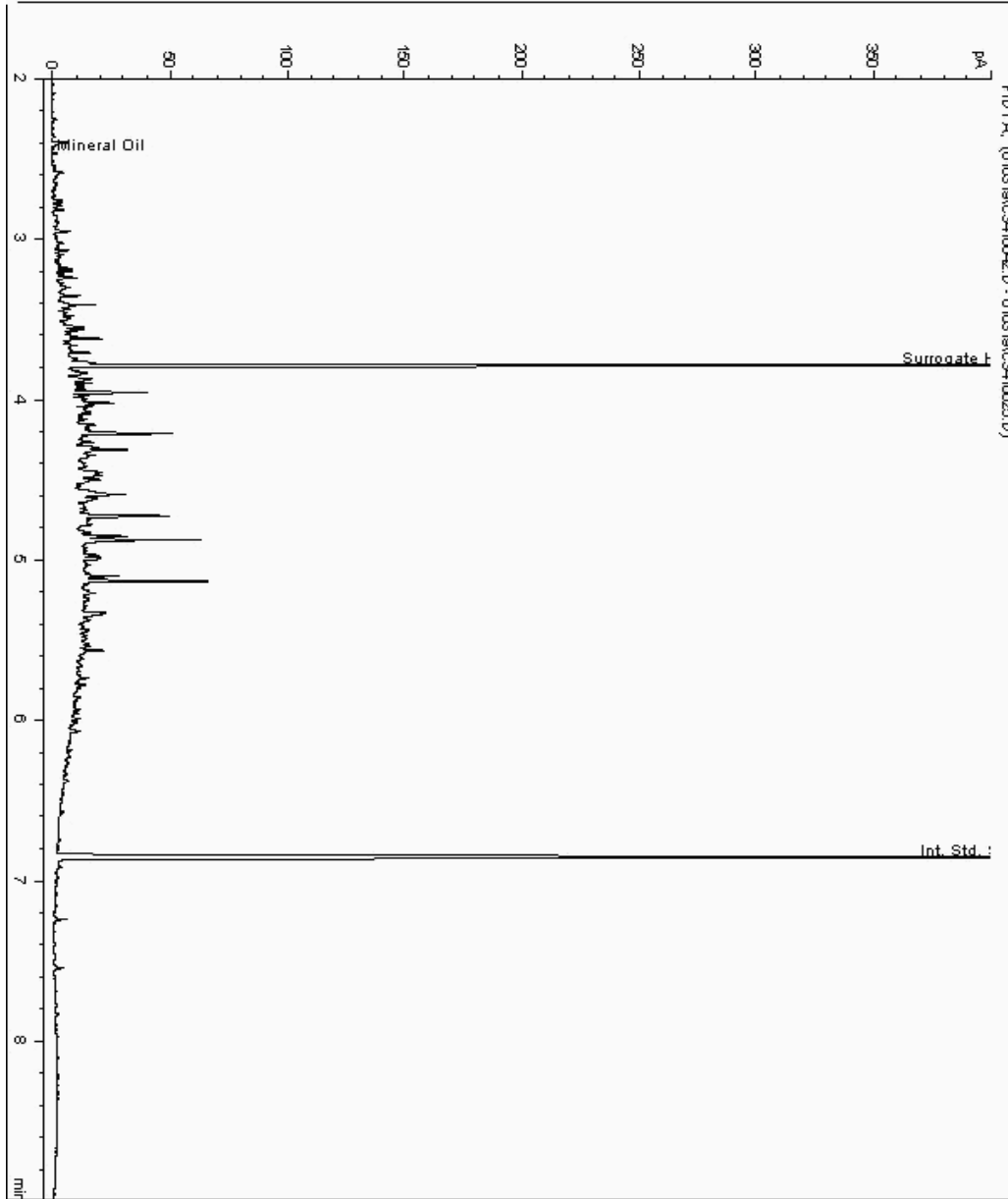
Analysis: Mineral Oil

Sample No : 19019982
Sample ID : BH204

Depth : 2.00 - 3.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869136-
Date Acquired : 03/01/19 21:58:28 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

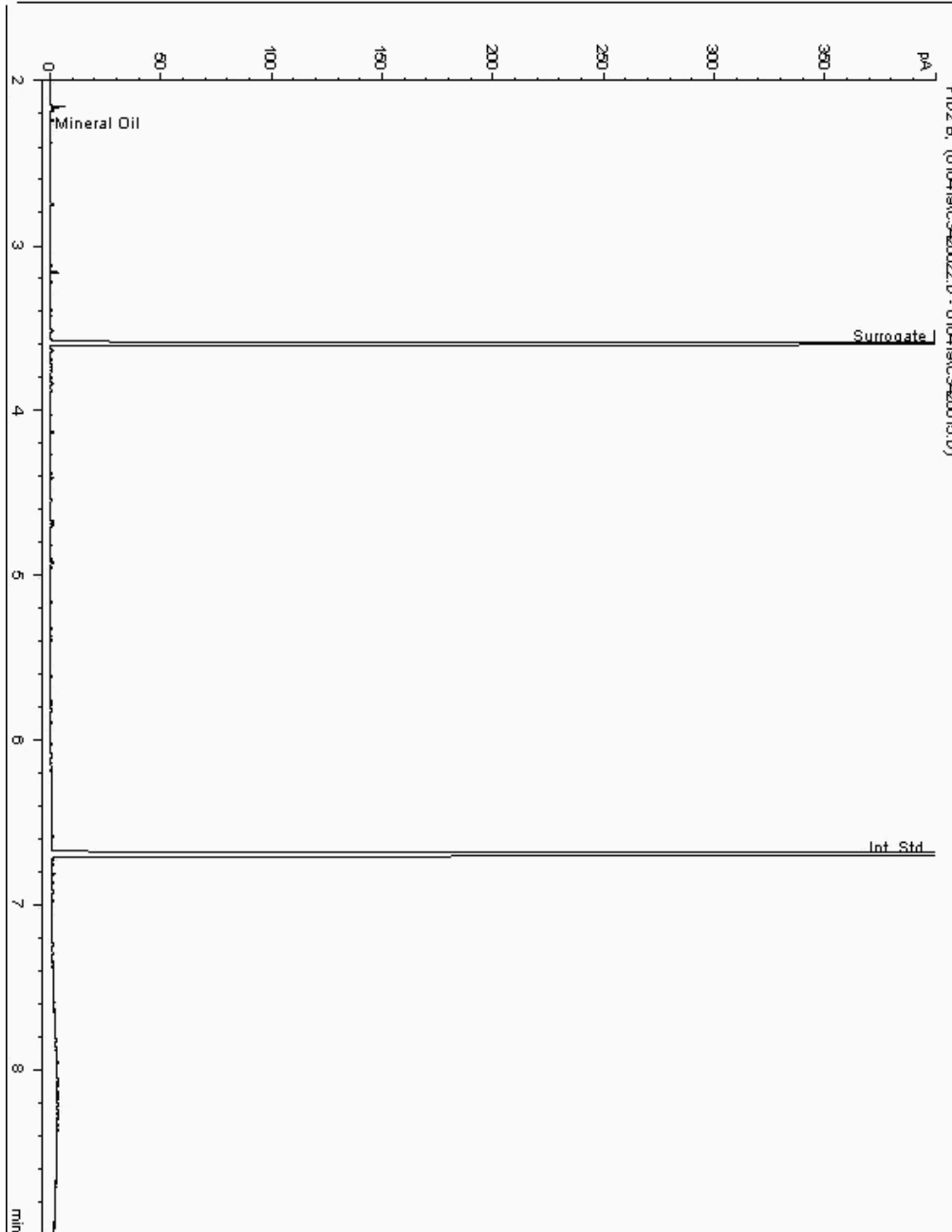
Analysis: Mineral Oil

Sample No : 19019995
Sample ID : BH210

Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869522-
Date Acquired : 04/01/2019 20:58:08 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

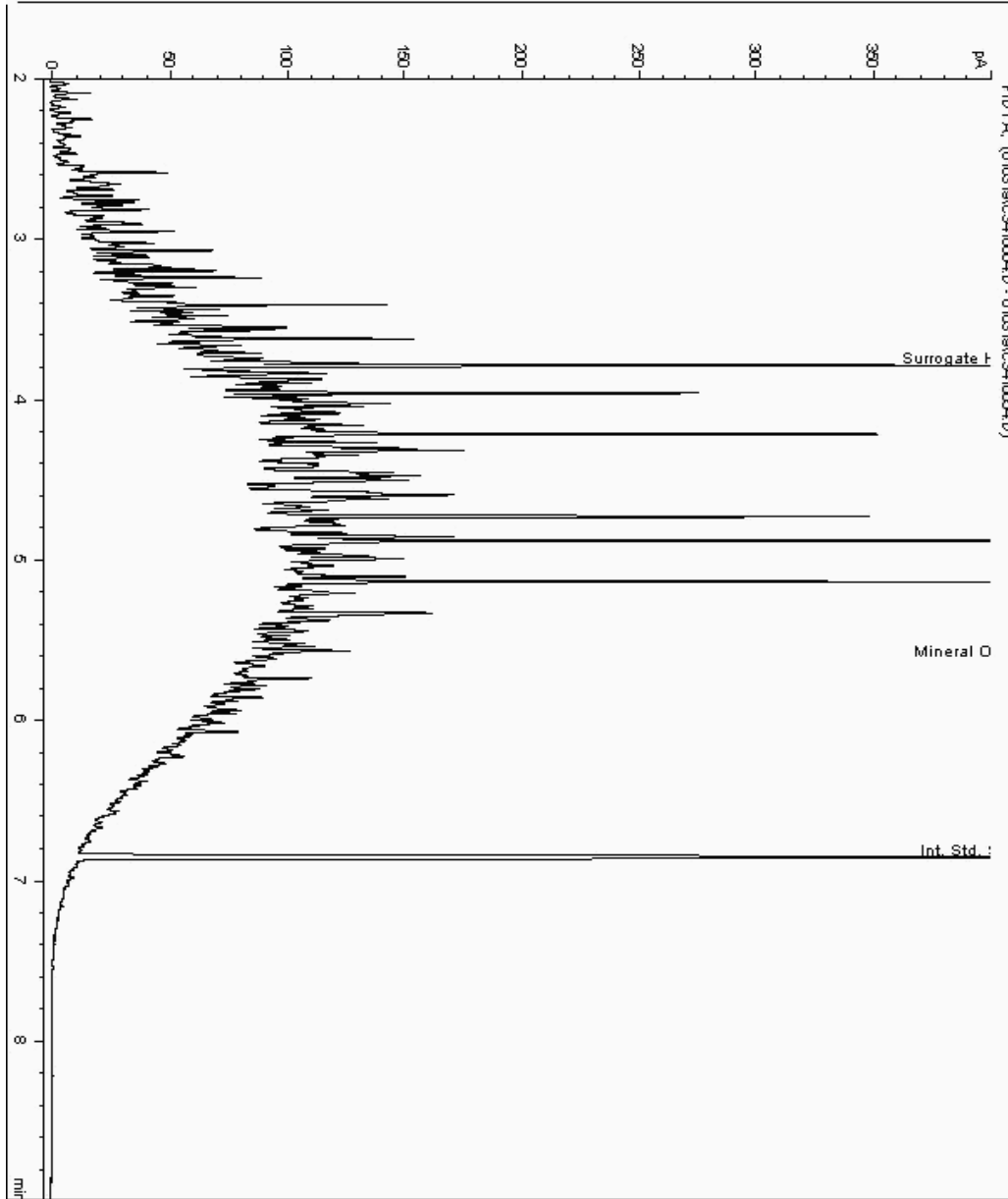
Analysis: Mineral Oil

Sample No : 19020092
Sample ID : BH204

Depth : 1.00 - 2.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869107-
Date Acquired : 04/01/19 12:44:16 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

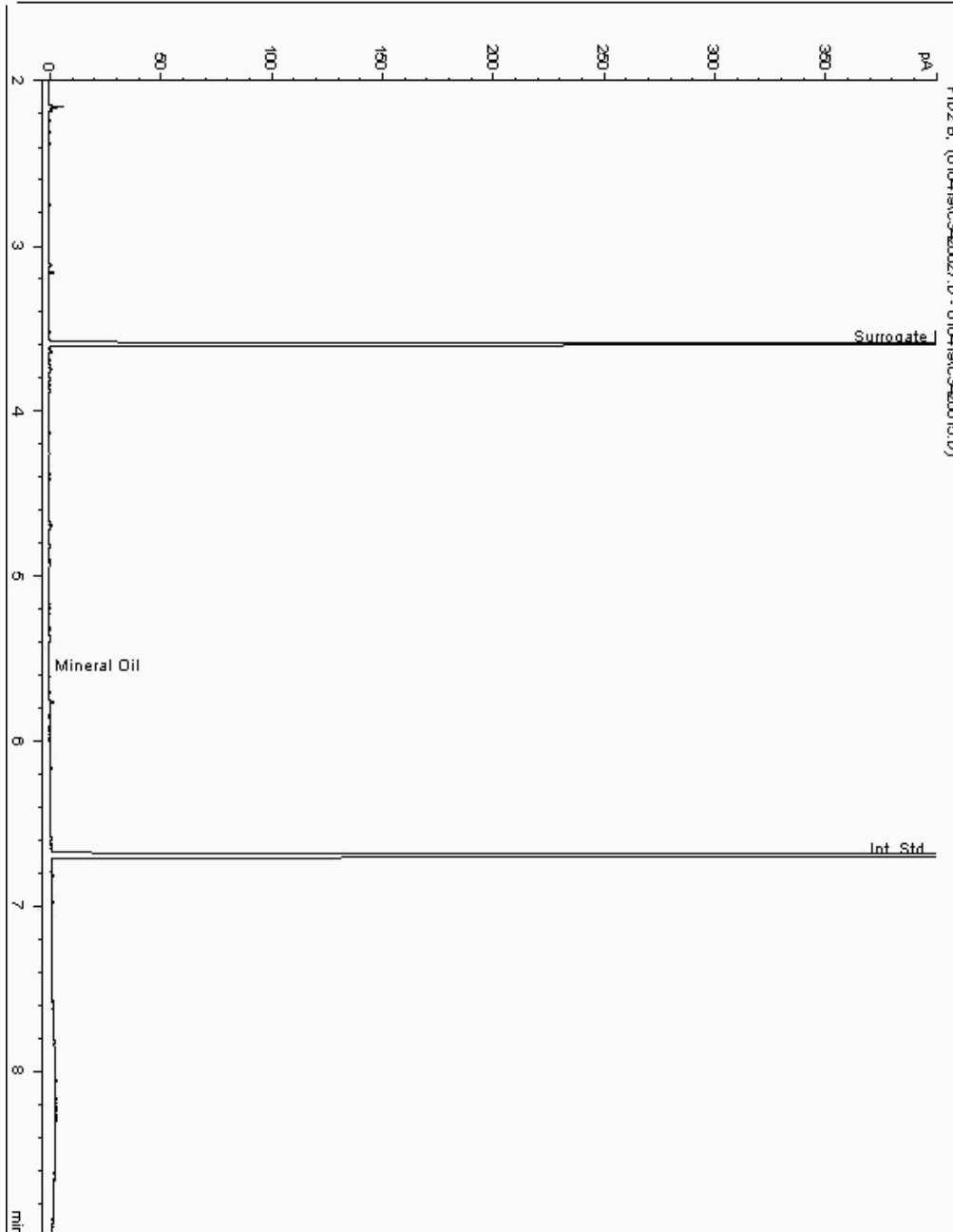
Analysis: Mineral Oil

Sample No : 19020152
Sample ID : BH203

Depth : 10.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868652-
Date Acquired : 04/01/2019 22:31:00 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

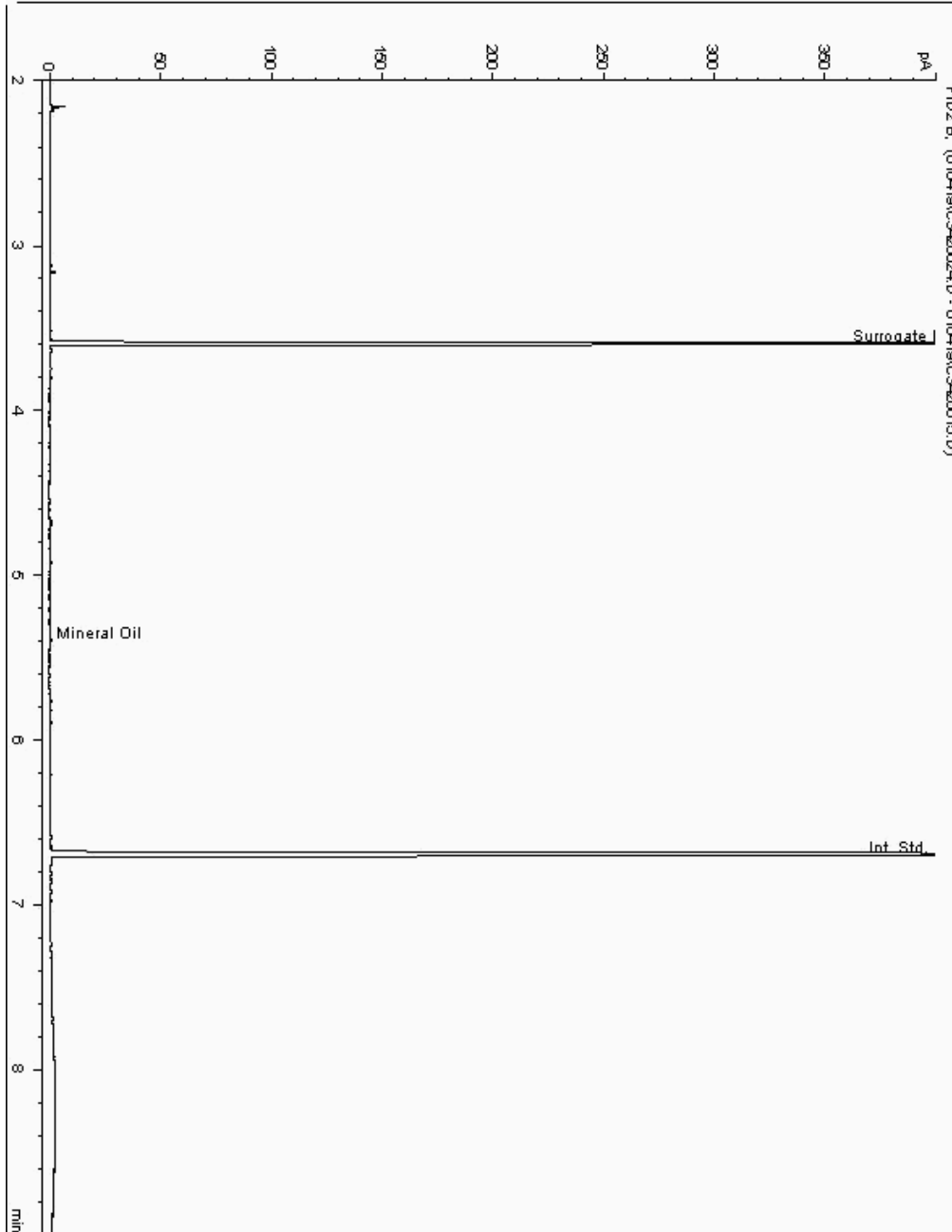
Analysis: Mineral Oil

Sample No : 19020243
Sample ID : BH202

Depth : 11.50 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868492-
Date Acquired : 04/01/2019 21:38:36 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

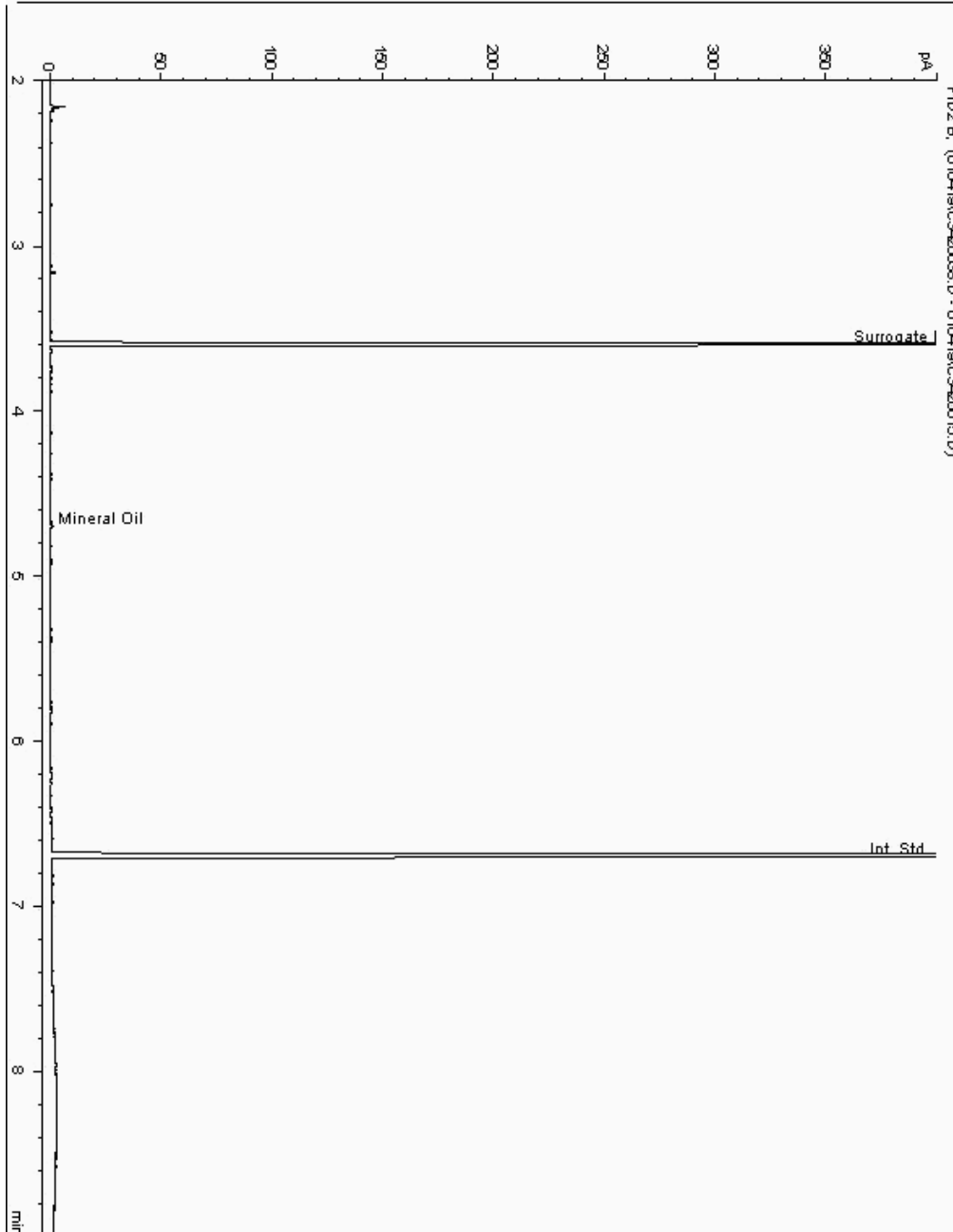
Analysis: Mineral Oil

Sample No : 19020279
Sample ID : BH203

Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868737-
Date Acquired : 05/01/2019 01:48:59 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

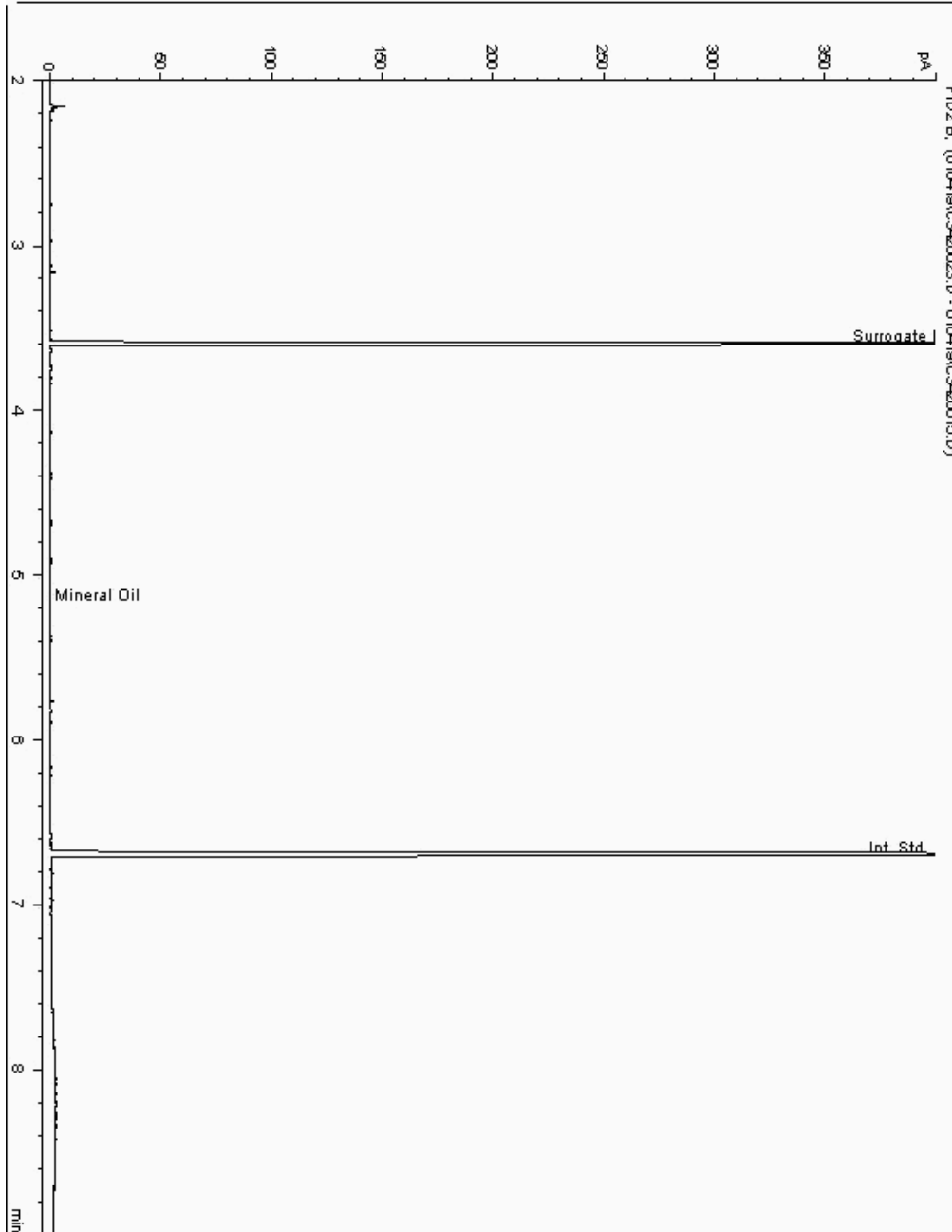
Analysis: Mineral Oil

Sample No : 19020318
Sample ID : BH202

Depth : 15.00 - 17.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868470-
Date Acquired : 04/01/2019 21:18:35 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

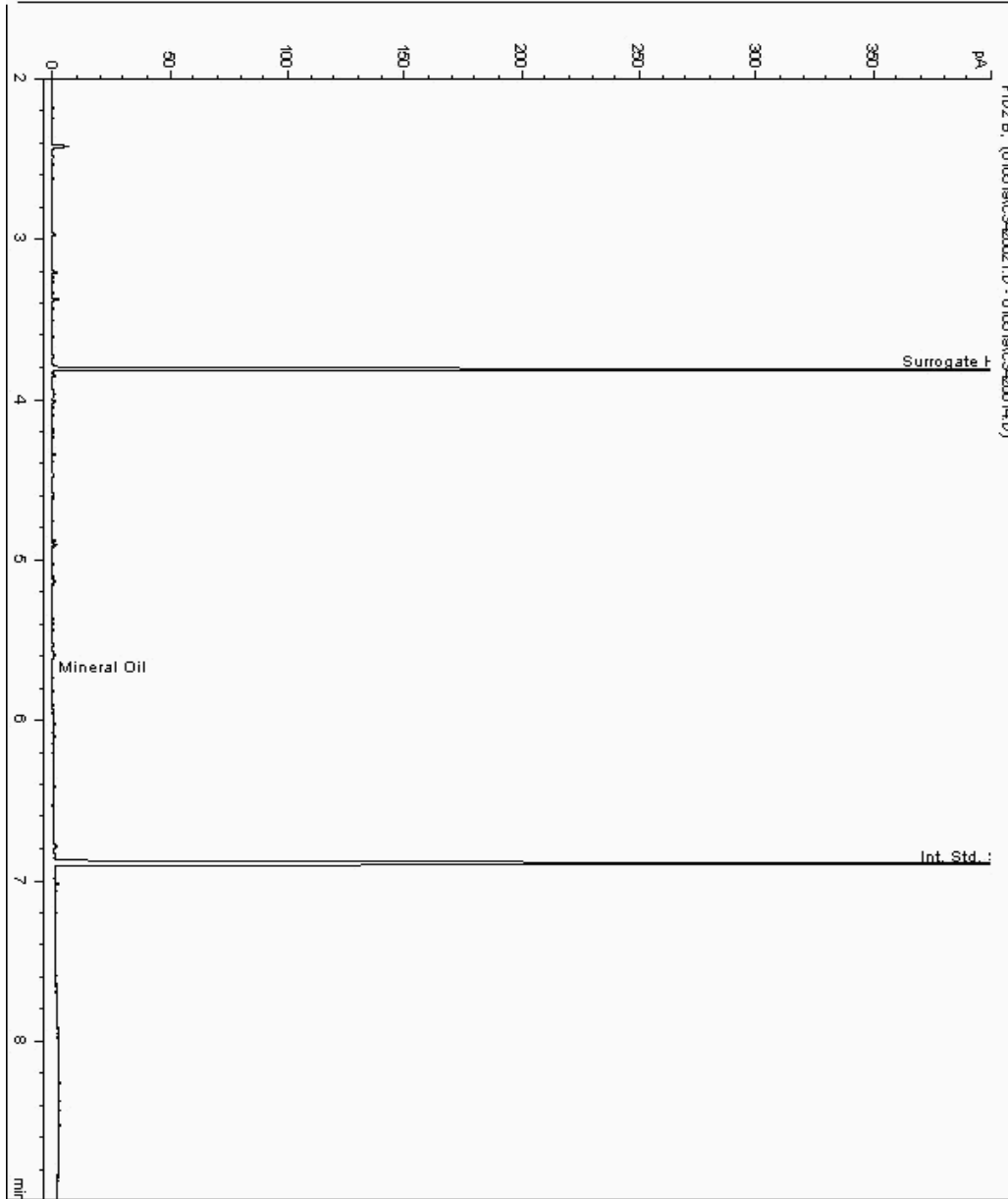
Analysis: Mineral Oil

Sample No : 19020388
Sample ID : BH203

Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868806-
Date Acquired : 05/01/19 16:09:54 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

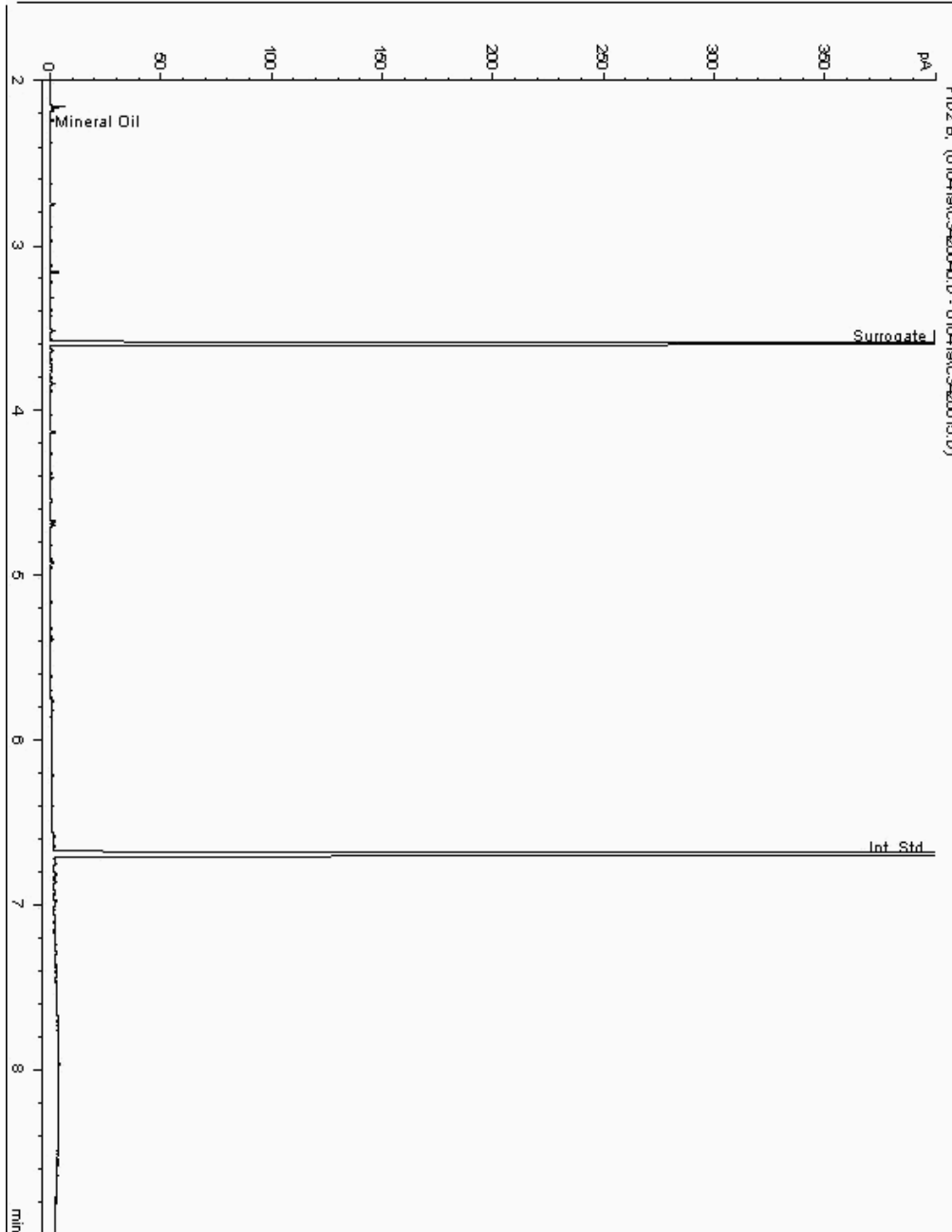
Analysis: Mineral Oil

Sample No : 19020425
Sample ID : BH203

Depth : 15.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868857-
Date Acquired : 05/01/2019 02:21:07 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

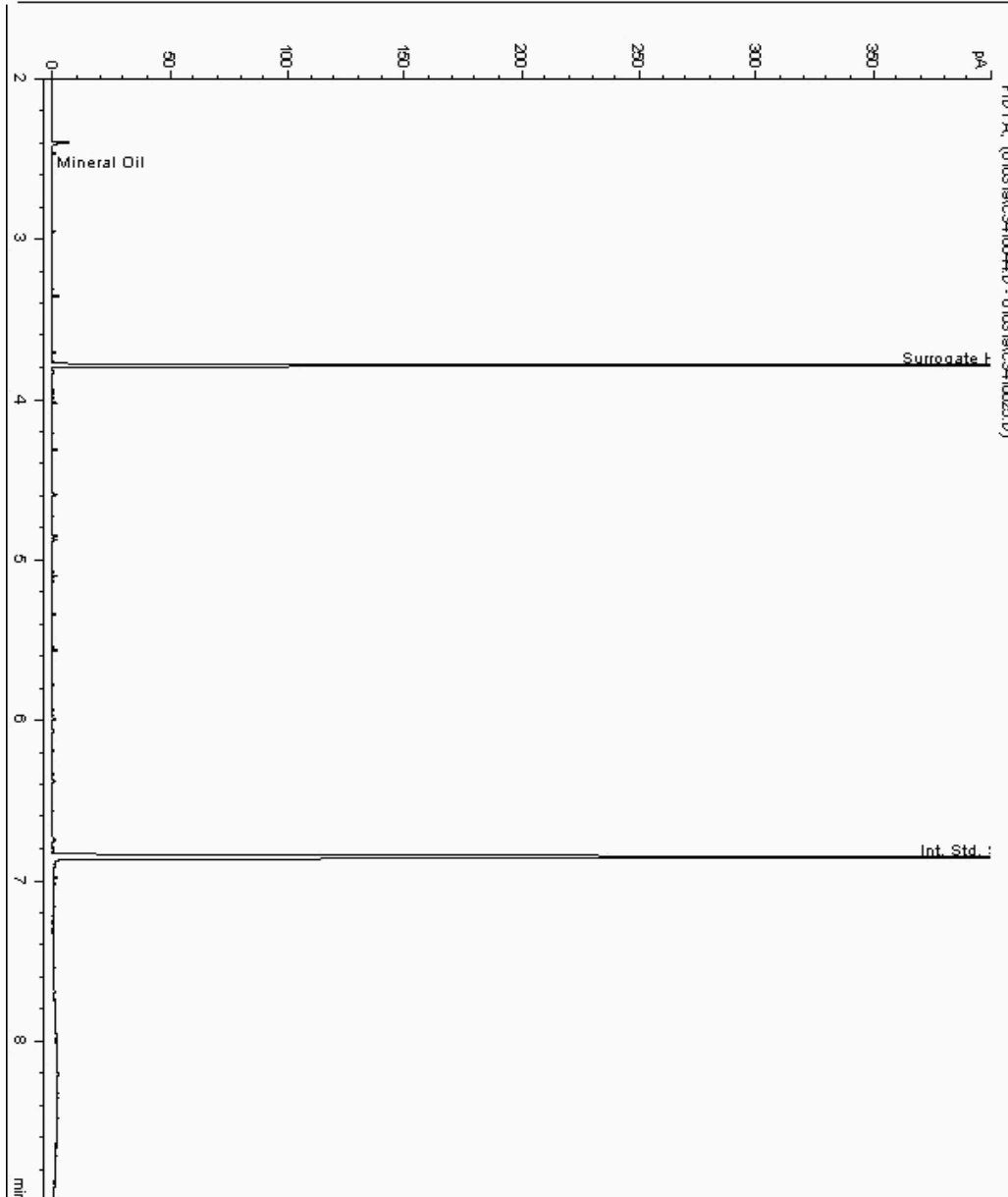
Analysis: Mineral Oil

Sample No : 19020487
Sample ID : BH204

Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868904-
Date Acquired : 03/01/19 22:30:13 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

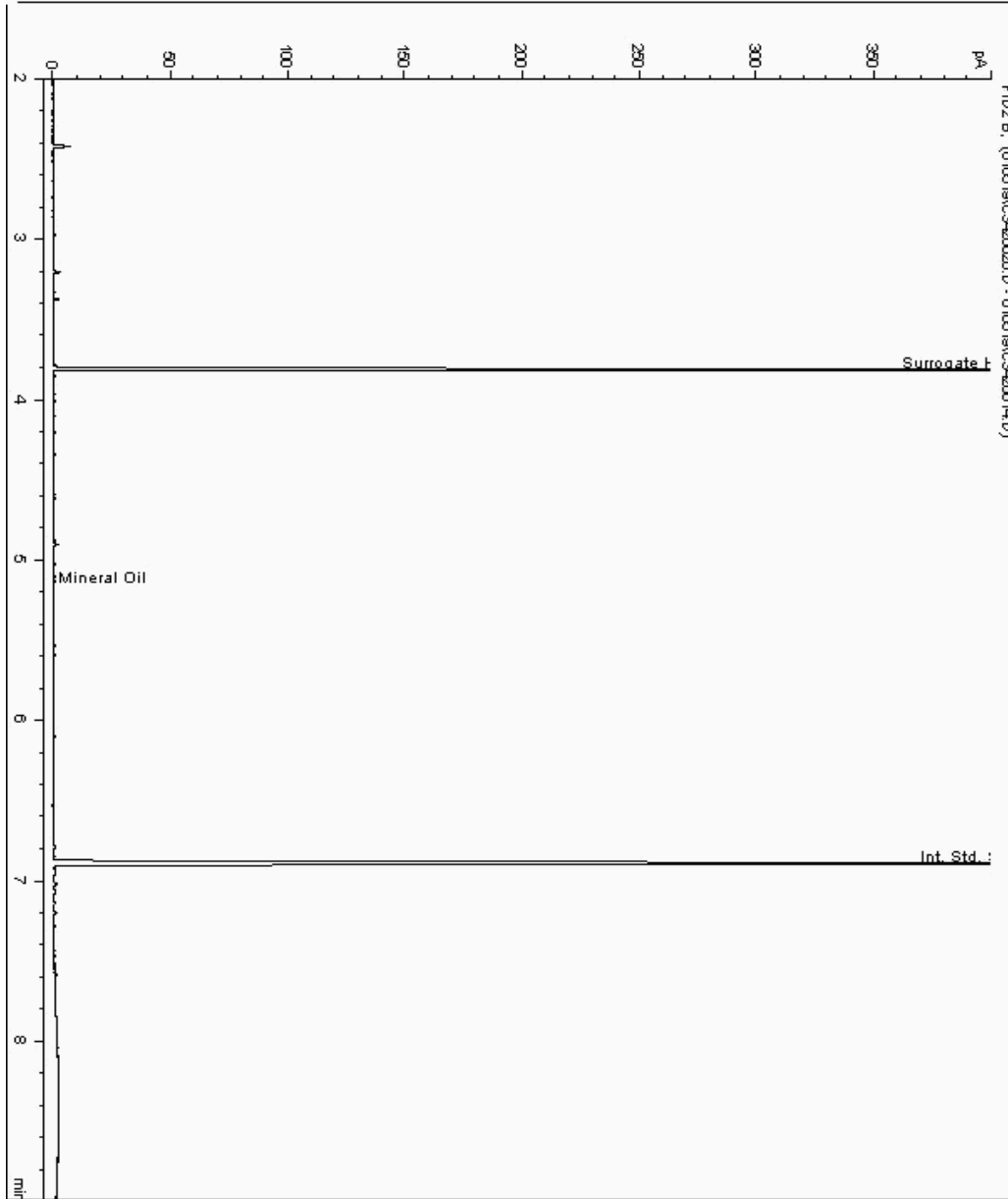
Analysis: Mineral Oil

Sample No : 19021146
Sample ID : BH204

Depth : 5.80 - 7.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869272-
Date Acquired : 05/01/19 15:49:46 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

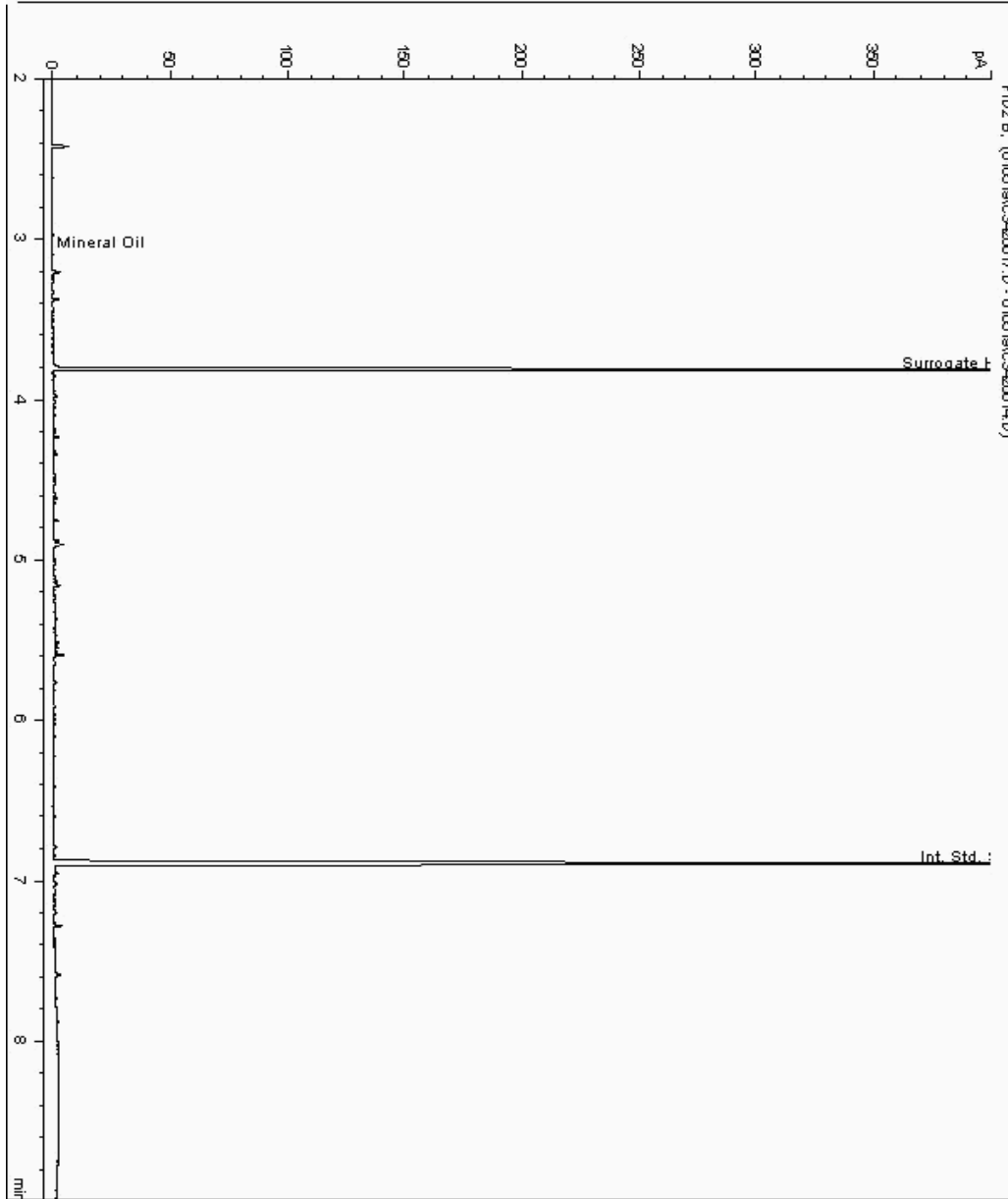
Analysis: Mineral Oil

Sample No : 19021265
Sample ID : BH204

Depth : 4.00 - 5.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869224-
Date Acquired : 05/01/19 14:57:25 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

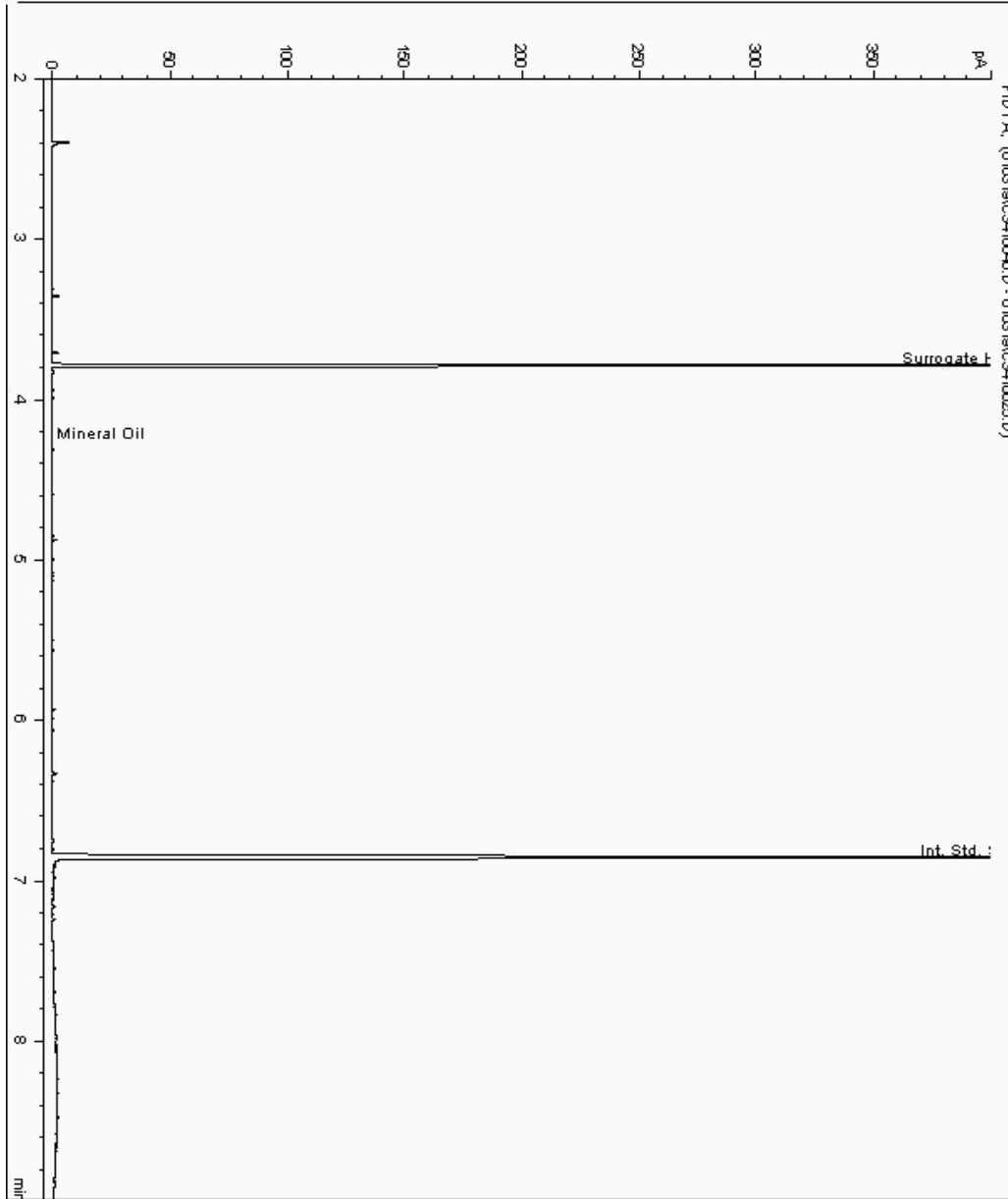
Analysis: Mineral Oil

Sample No : 19021457
Sample ID : BH204

Depth : 8.00 - 10.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869321-
Date Acquired : 03/01/19 22:50:10 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

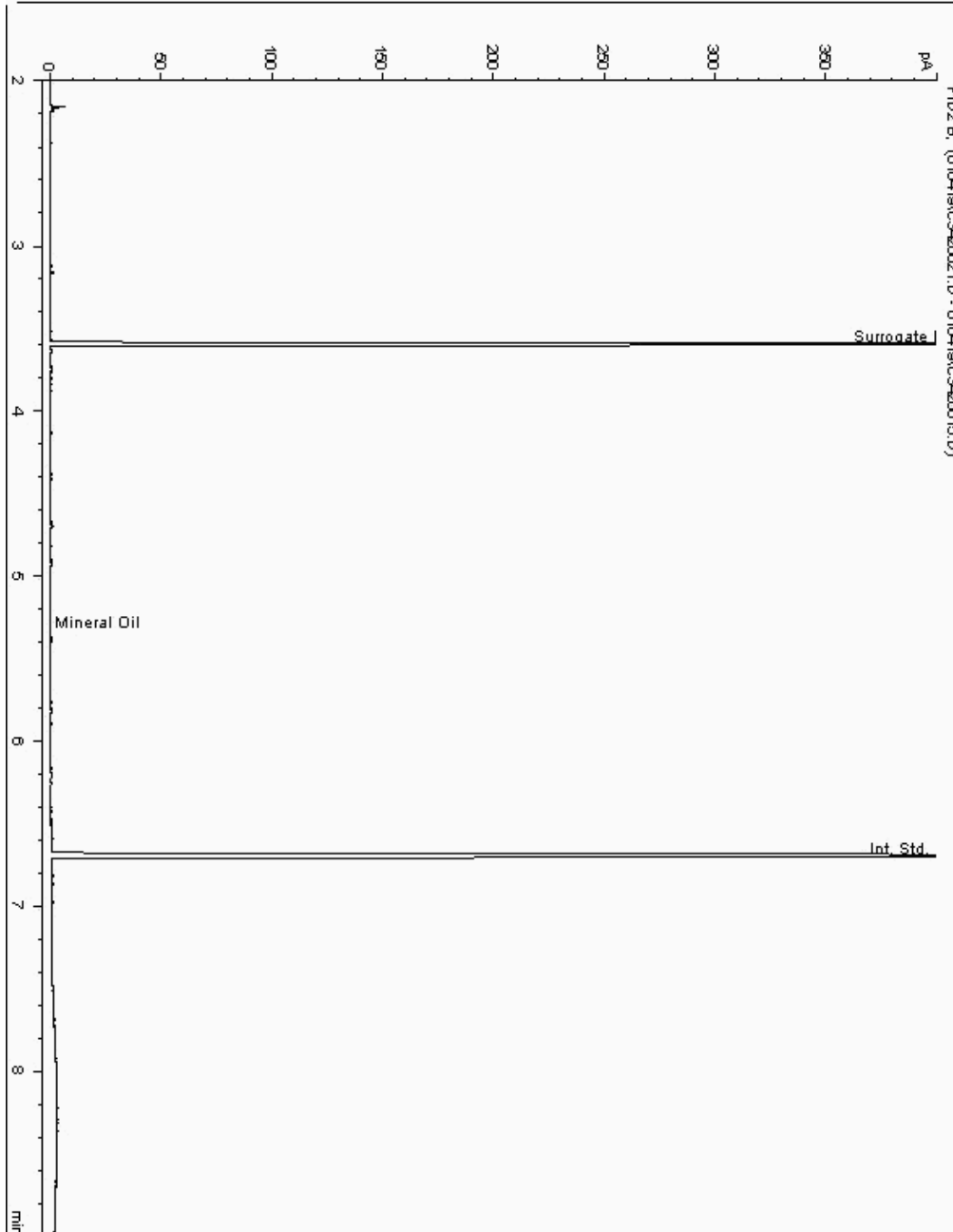
Analysis: Mineral Oil

Sample No : 19021571
Sample ID : BH204

Depth : 11.00 - 12.50

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869352-
Date Acquired : 04/01/2019 20:37:54 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

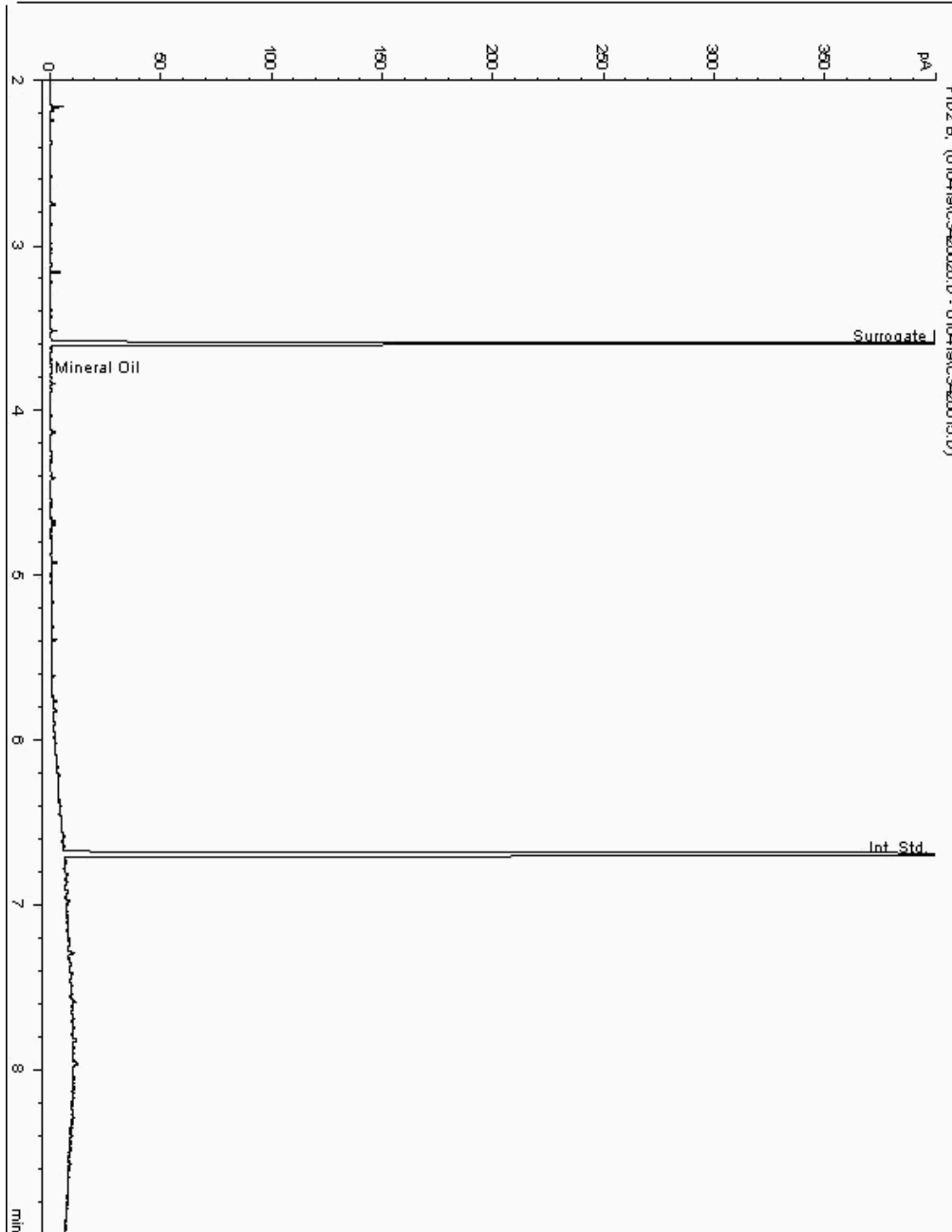
Analysis: Mineral Oil

Sample No : 19022424
Sample ID : BH201

Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868514-
Date Acquired : 04/01/2019 20:17:54 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

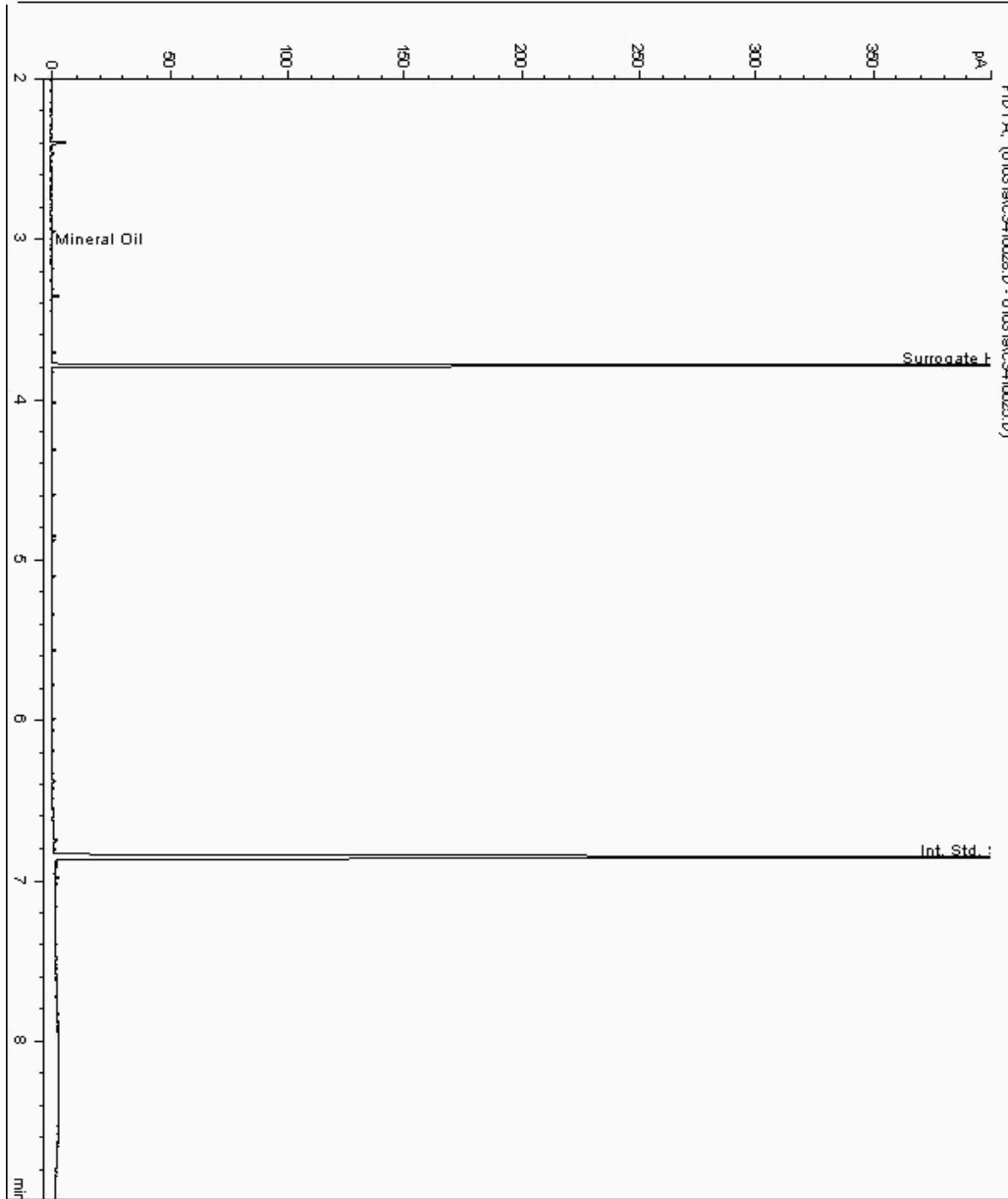
Analysis: Mineral Oil

Sample No : 19022494
Sample ID : BH201

Depth : 14.00 - 15.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17868539-
Date Acquired : 03/01/19 17:43:52 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

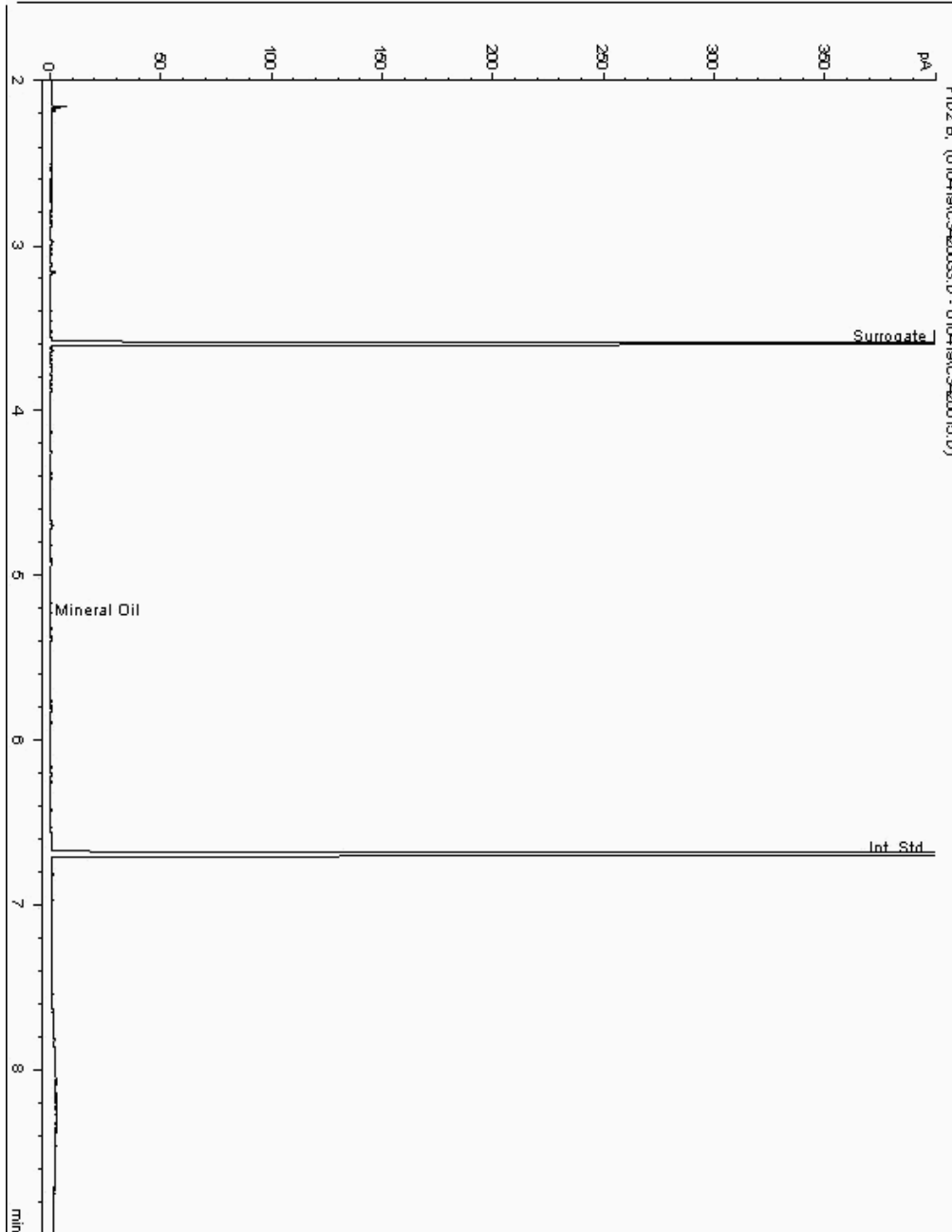
Analysis: Mineral Oil

Sample No : 19022622
Sample ID : BH210

Depth : 11.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869439-
Date Acquired : 05/01/2019 00:15:50 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

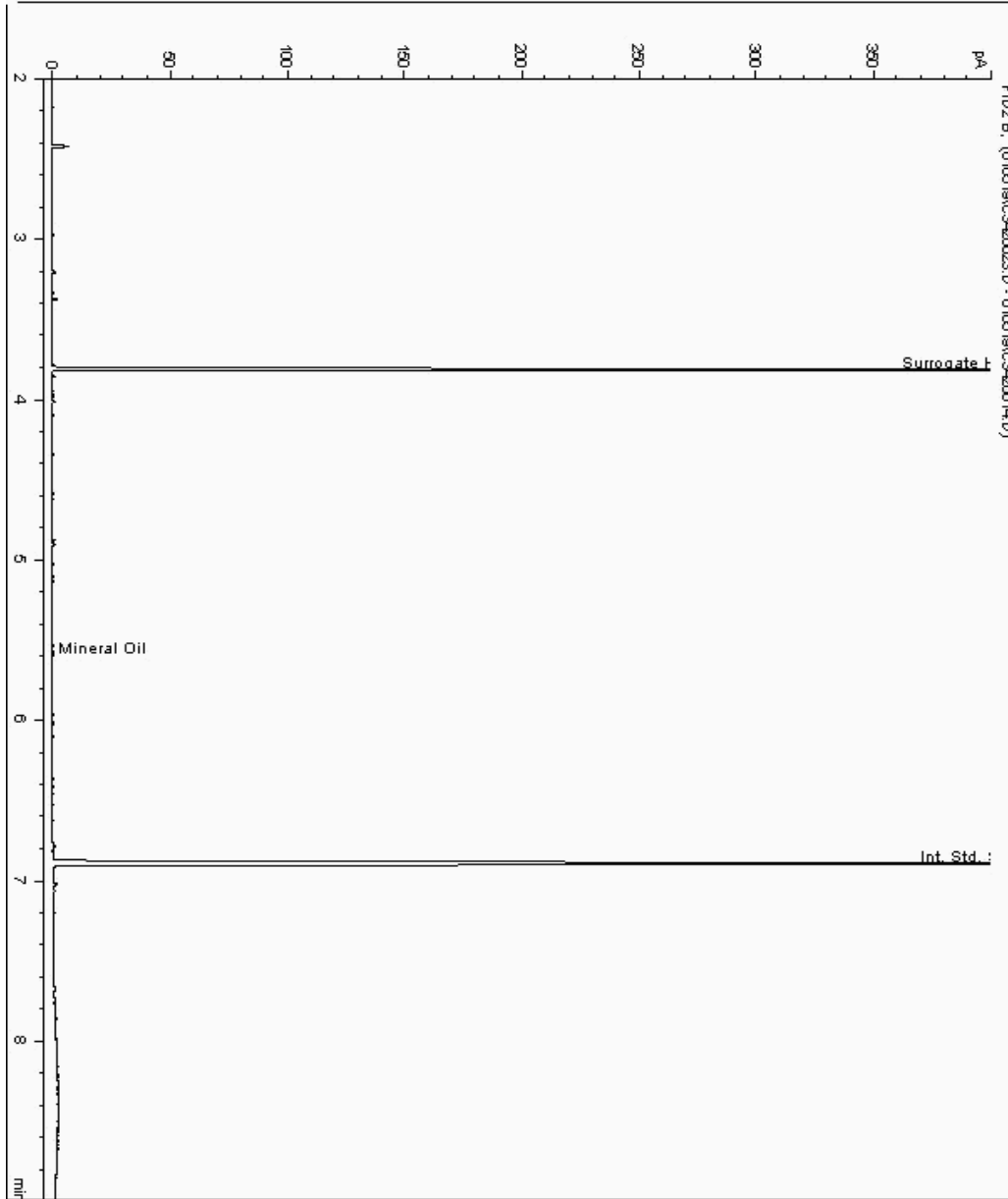
Analysis: Mineral Oil

Sample No : 19022778
Sample ID : BH210

Depth : 10.00 - 11.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869547-
Date Acquired : 05/01/19 16:50:12 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

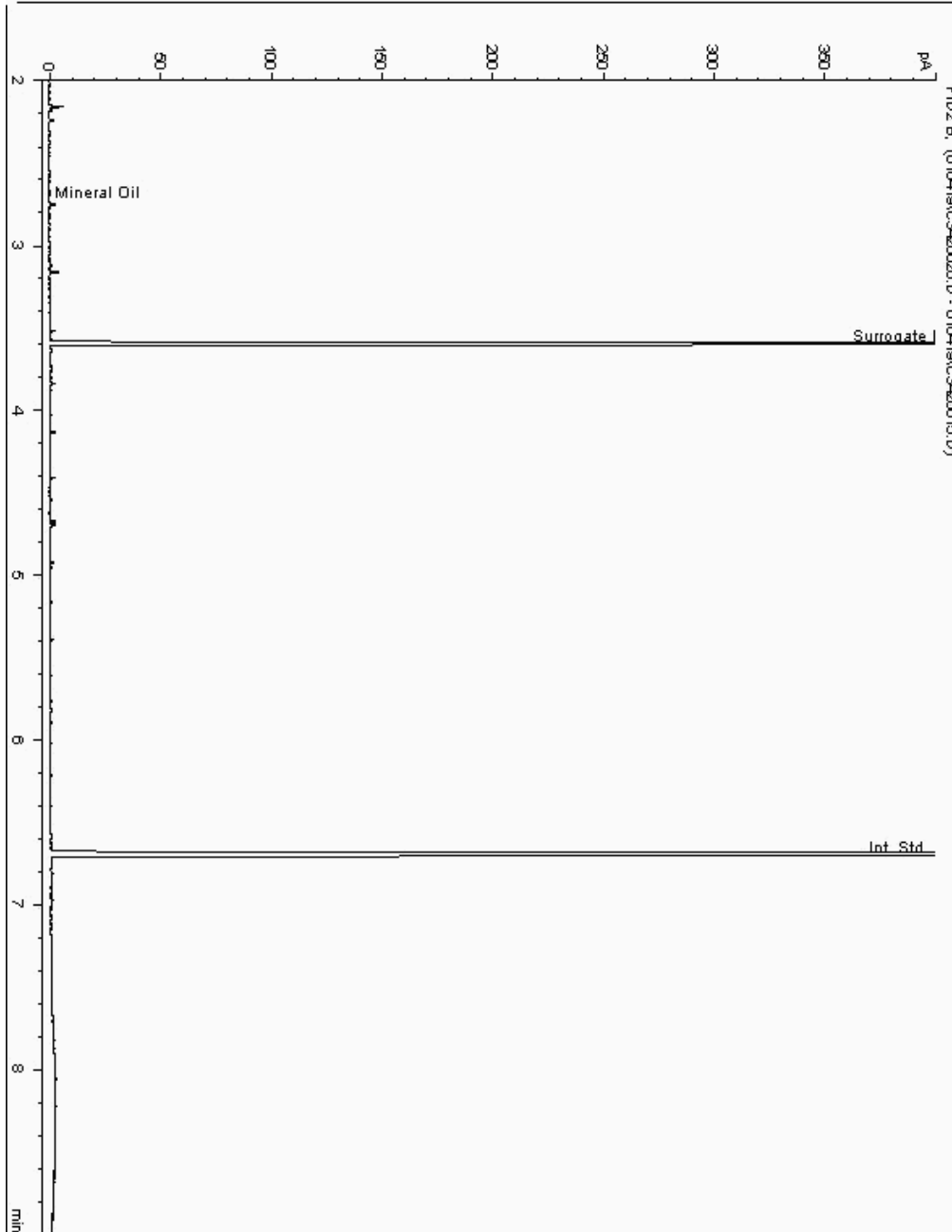
Analysis: Mineral Oil

Sample No : 19022853
Sample ID : BH204

Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869377-
Date Acquired : 04/01/2019 22:10:49 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

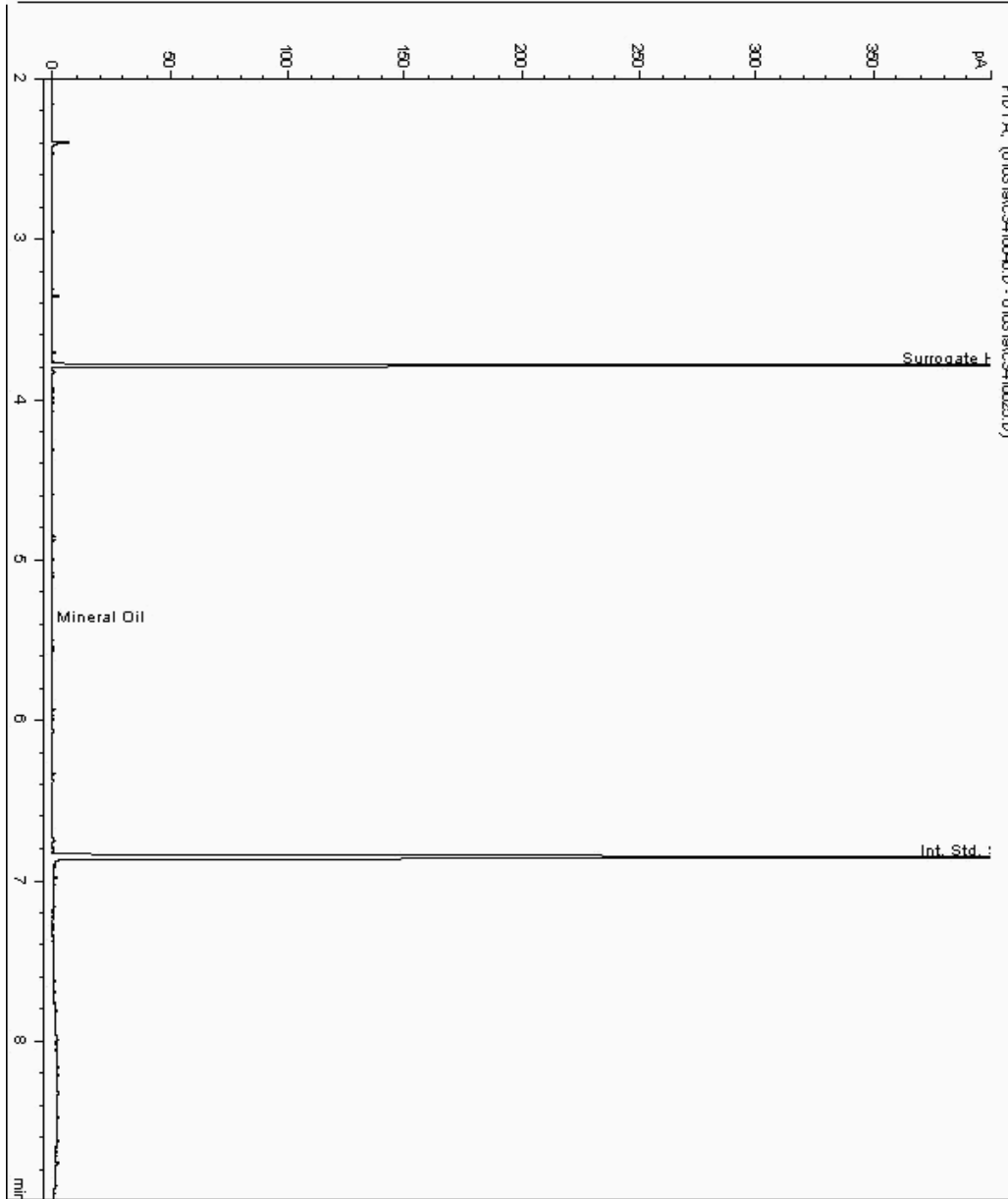
Analysis: Mineral Oil

Sample No : 19022926
Sample ID : BH210

Depth : 12.00 - 13.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17869471-
Date Acquired : 03/01/19 23:10:11 PM
Units : mcg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

Report Number: 489223
Superseded Report:

Chromatogram

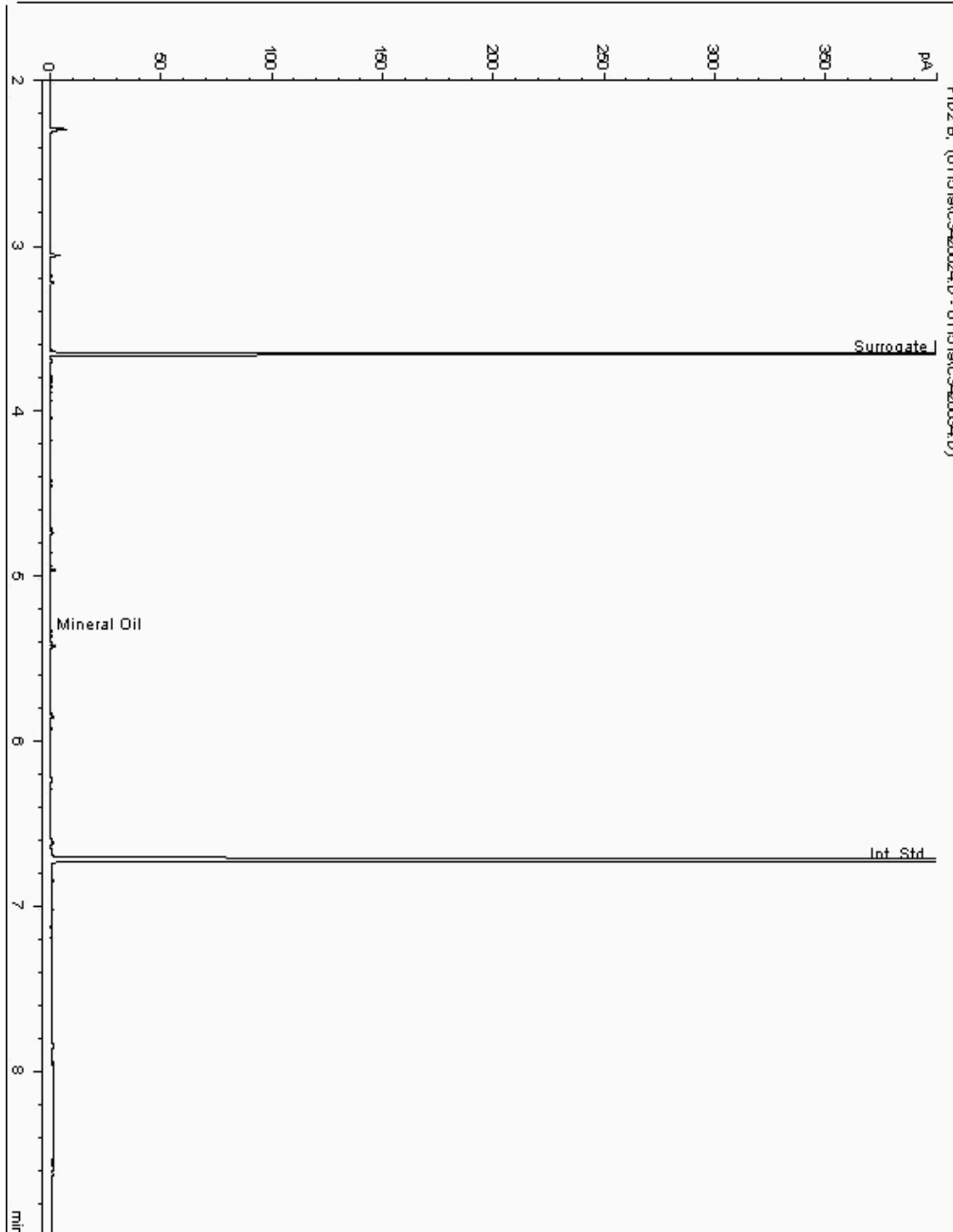
Analysis: Mineral Oil

Sample No : 19091418
Sample ID : BH205

Depth : 10.00 - 12.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17931566-
Date Acquired : 15/01/2019 15:11:44 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

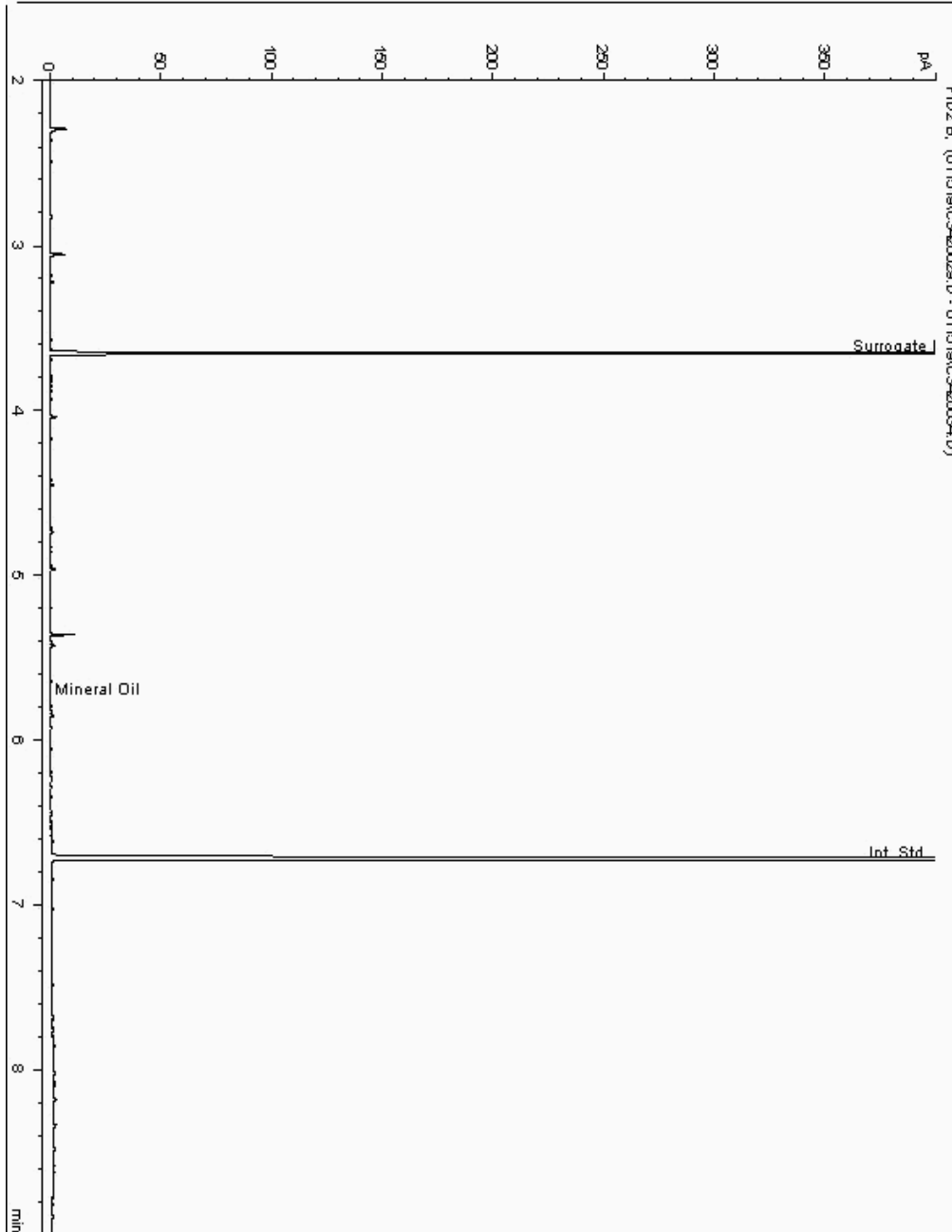
Analysis: Mineral Oil

Sample No : 19091896
Sample ID : BH205

Depth : 13.00 - 14.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17931598-
Date Acquired : 15/01/2019 16:56:36 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

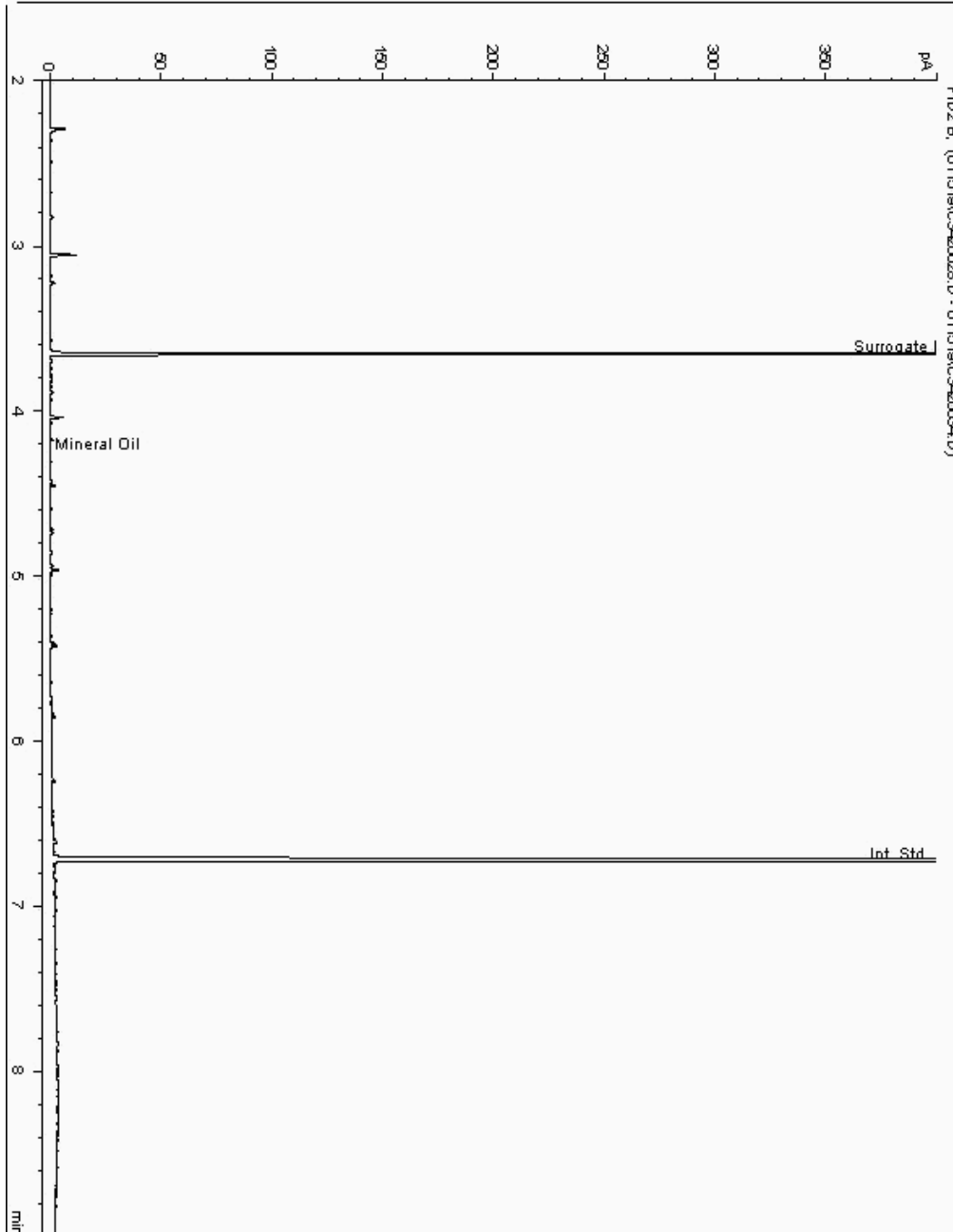
Analysis: Mineral Oil

Sample No : 19092003
Sample ID : BH205

Depth : 14.00 - 16.00

Mineral Oil Range Organics (C10 - C40)

Sample Identity : 17931620-
Date Acquired : 15/01/2019 16:35:25 PM
Units : mg/kg
Sample Multiplier : 0.000
Dilution :





CERTIFICATE OF ANALYSIS

Validated

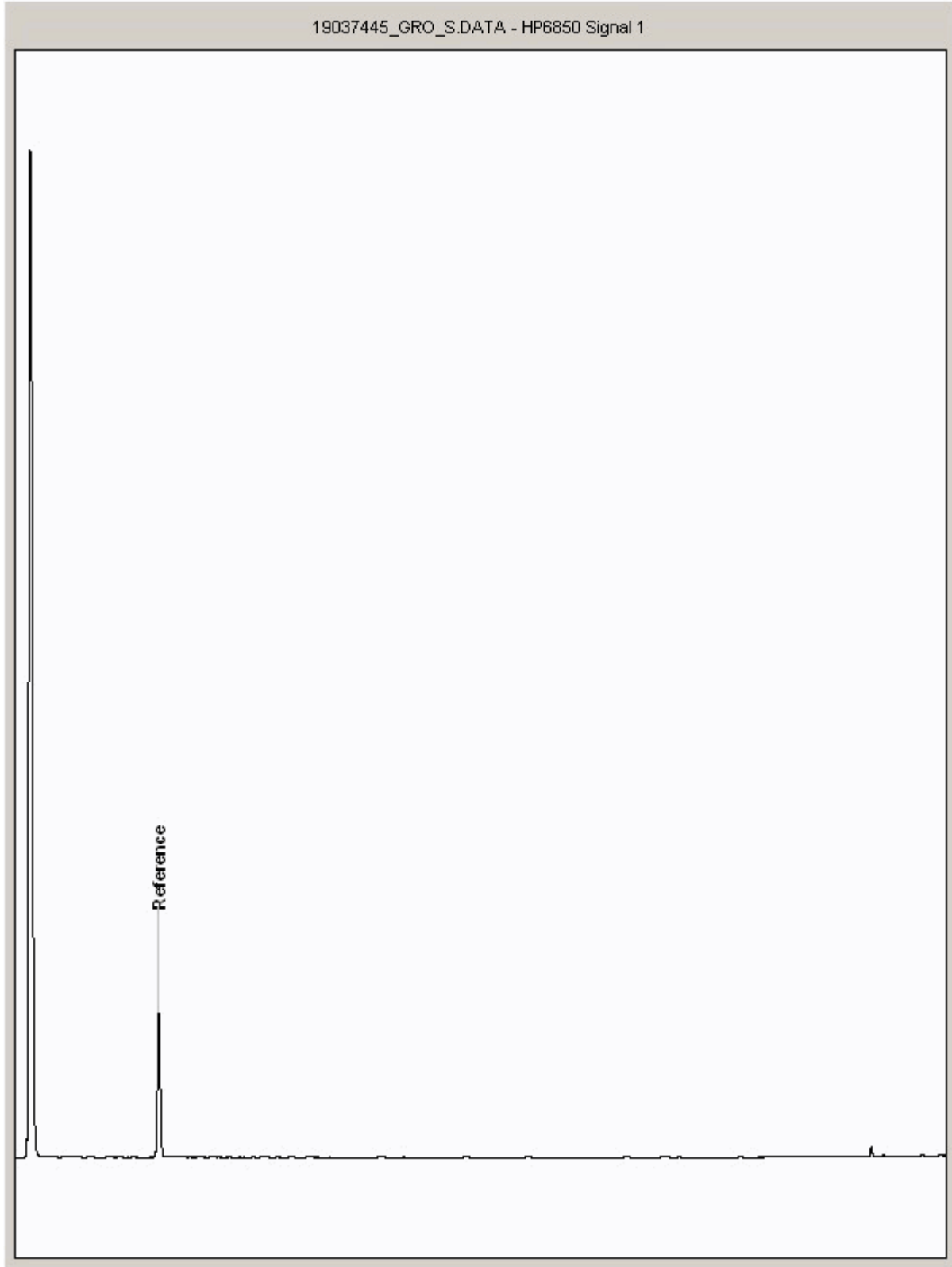
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19037445
Sample ID : BH204

Depth : 13.00 - 14.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

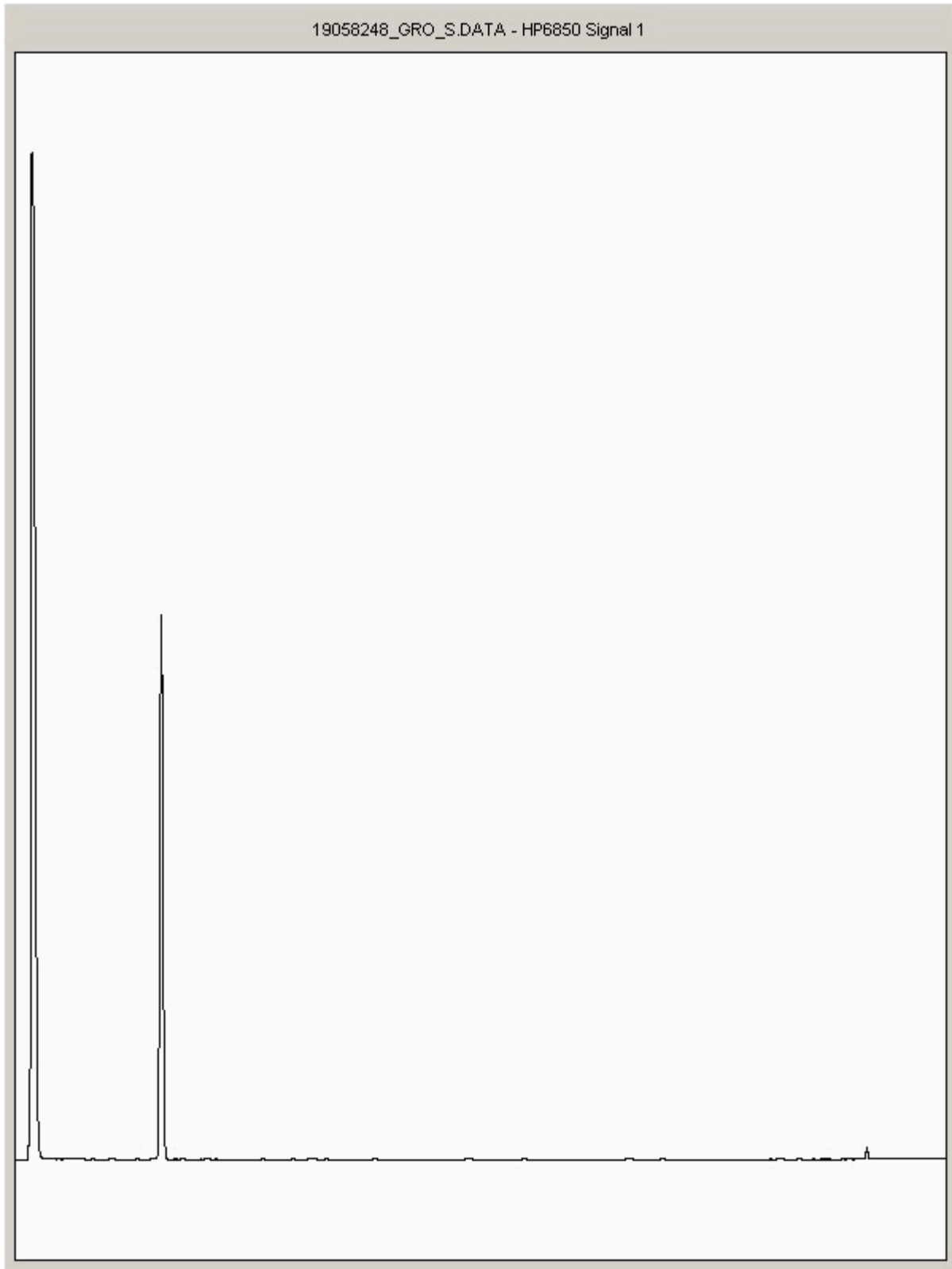
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19058248
Sample ID : BH203

Depth : 10.00 - 12.00





CERTIFICATE OF ANALYSIS

Validated

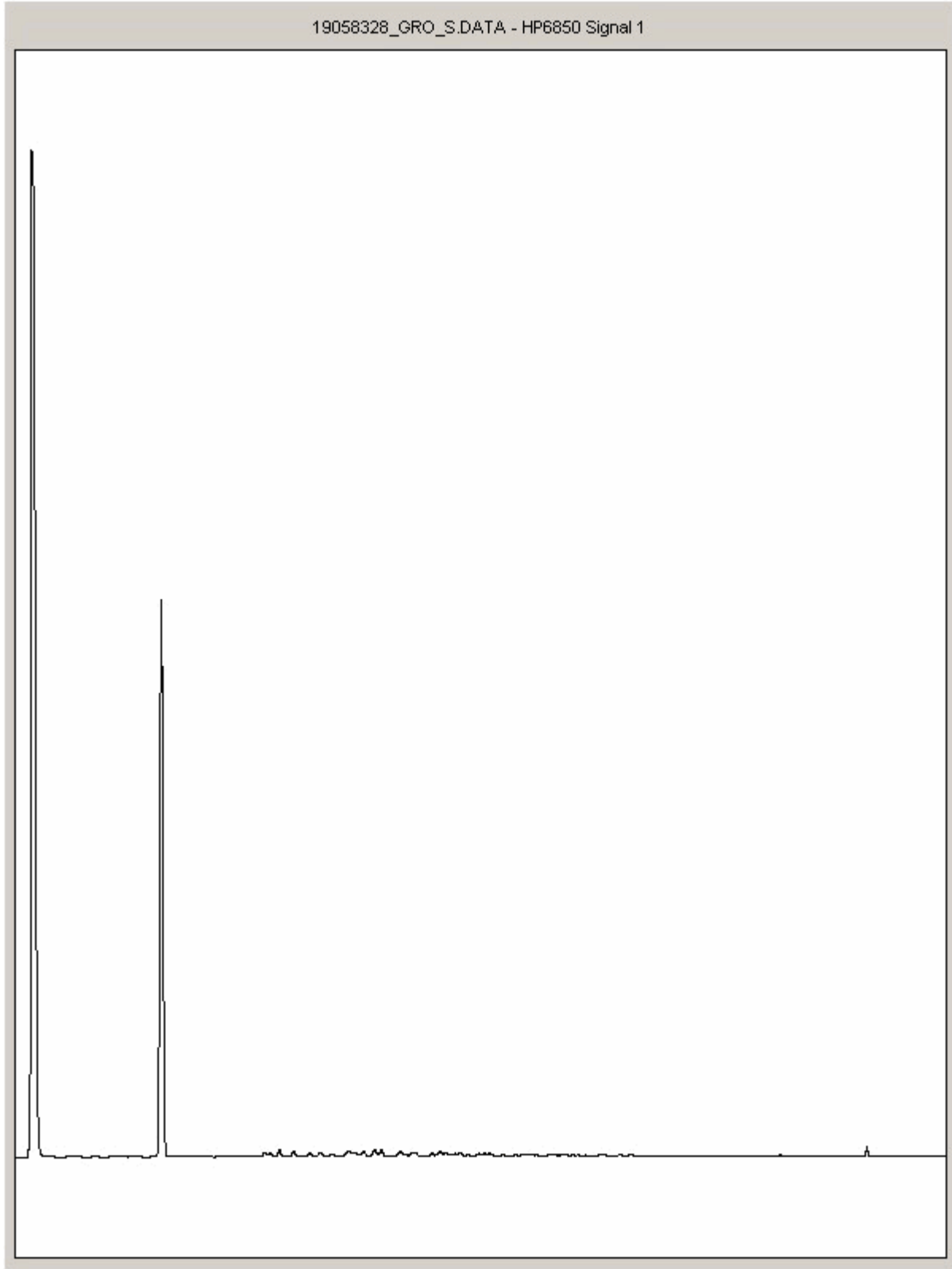
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19058328
Sample ID : BH204

Depth : 0.00 - 0.50





CERTIFICATE OF ANALYSIS

Validated

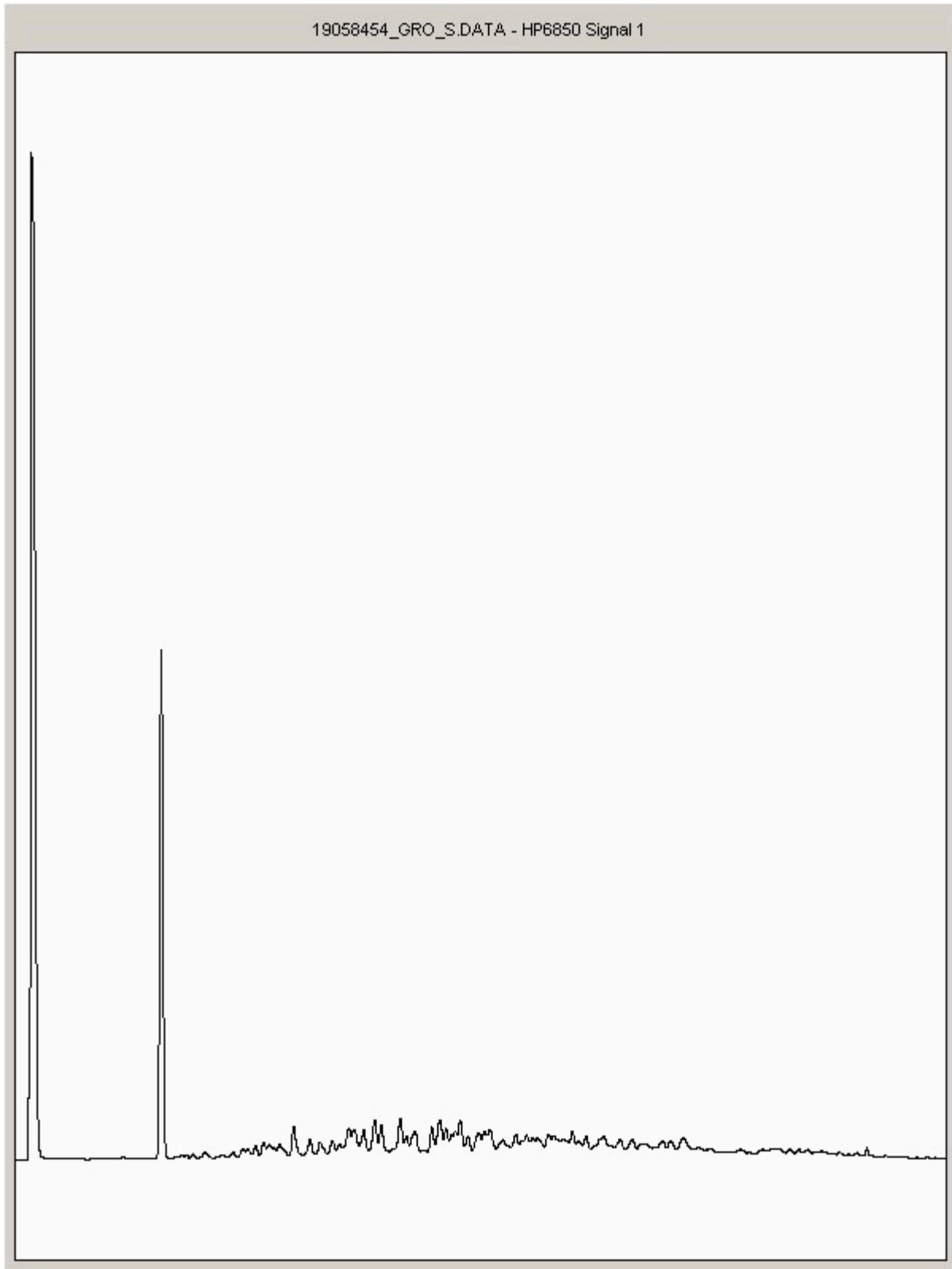
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19058454
Sample ID : BH204

Depth : 3.00 - 4.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

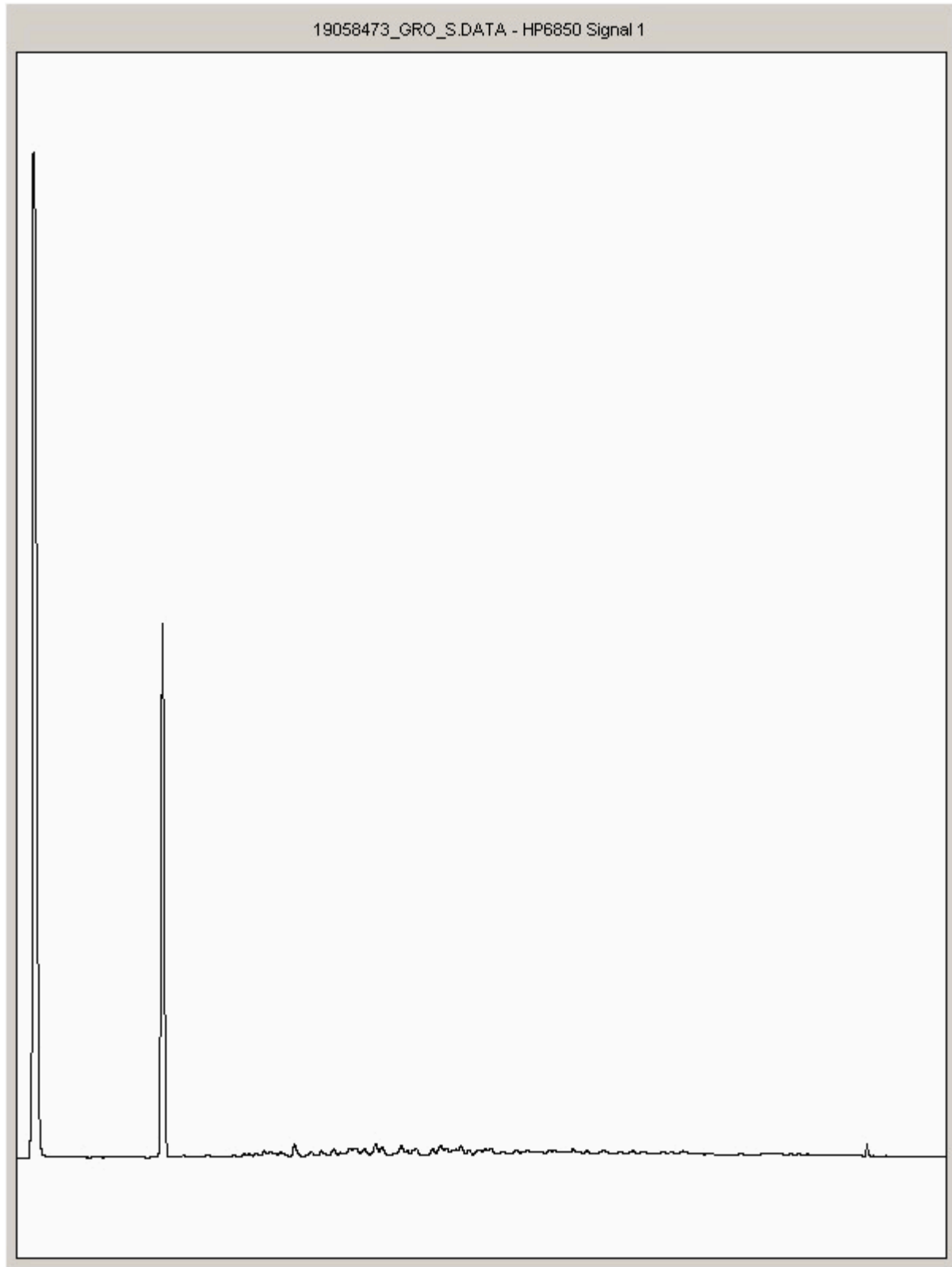
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19058473
Sample ID : BH204

Depth : 4.00 - 5.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

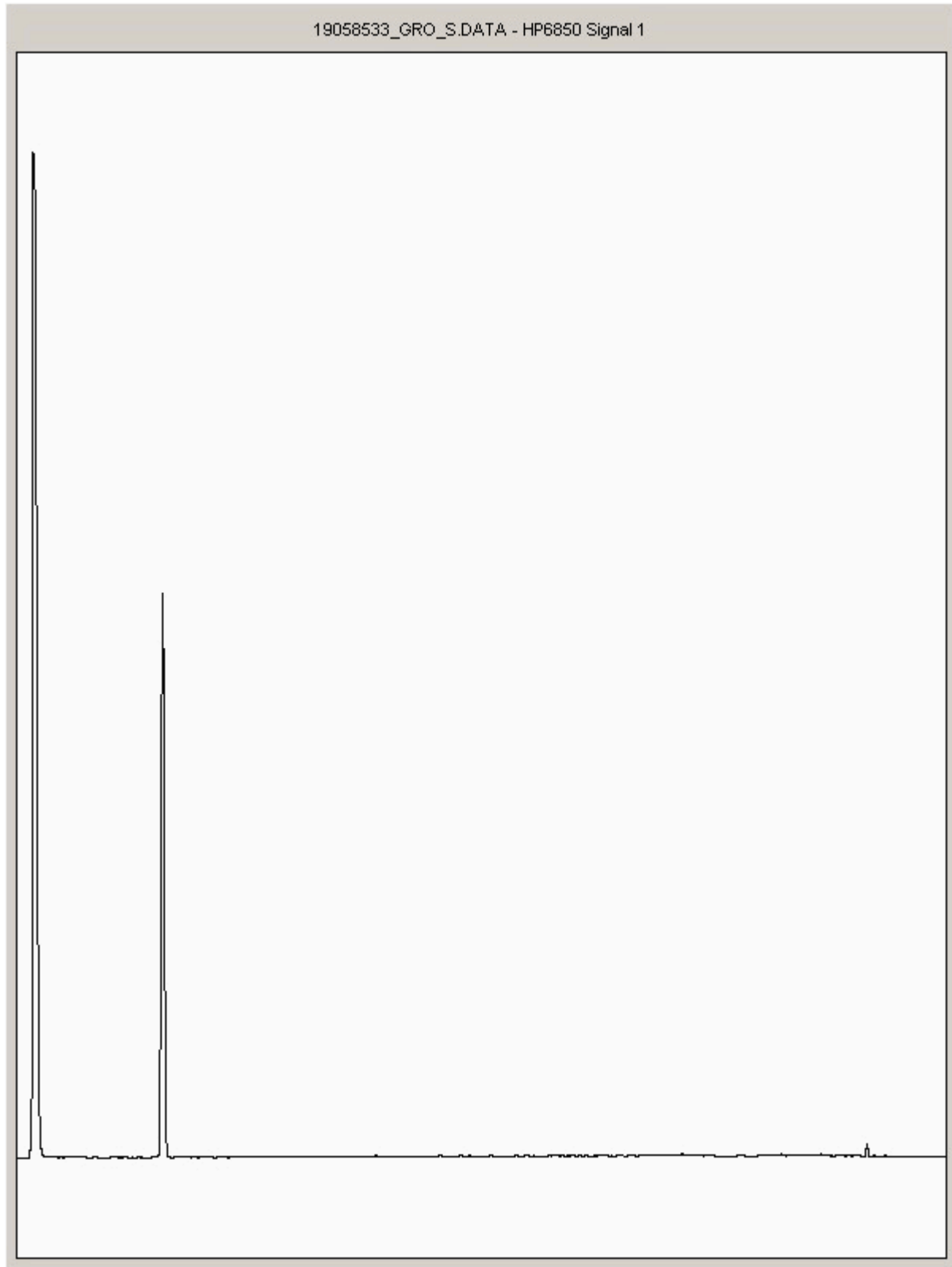
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19058533
Sample ID : BH204

Depth : 5.80 - 7.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

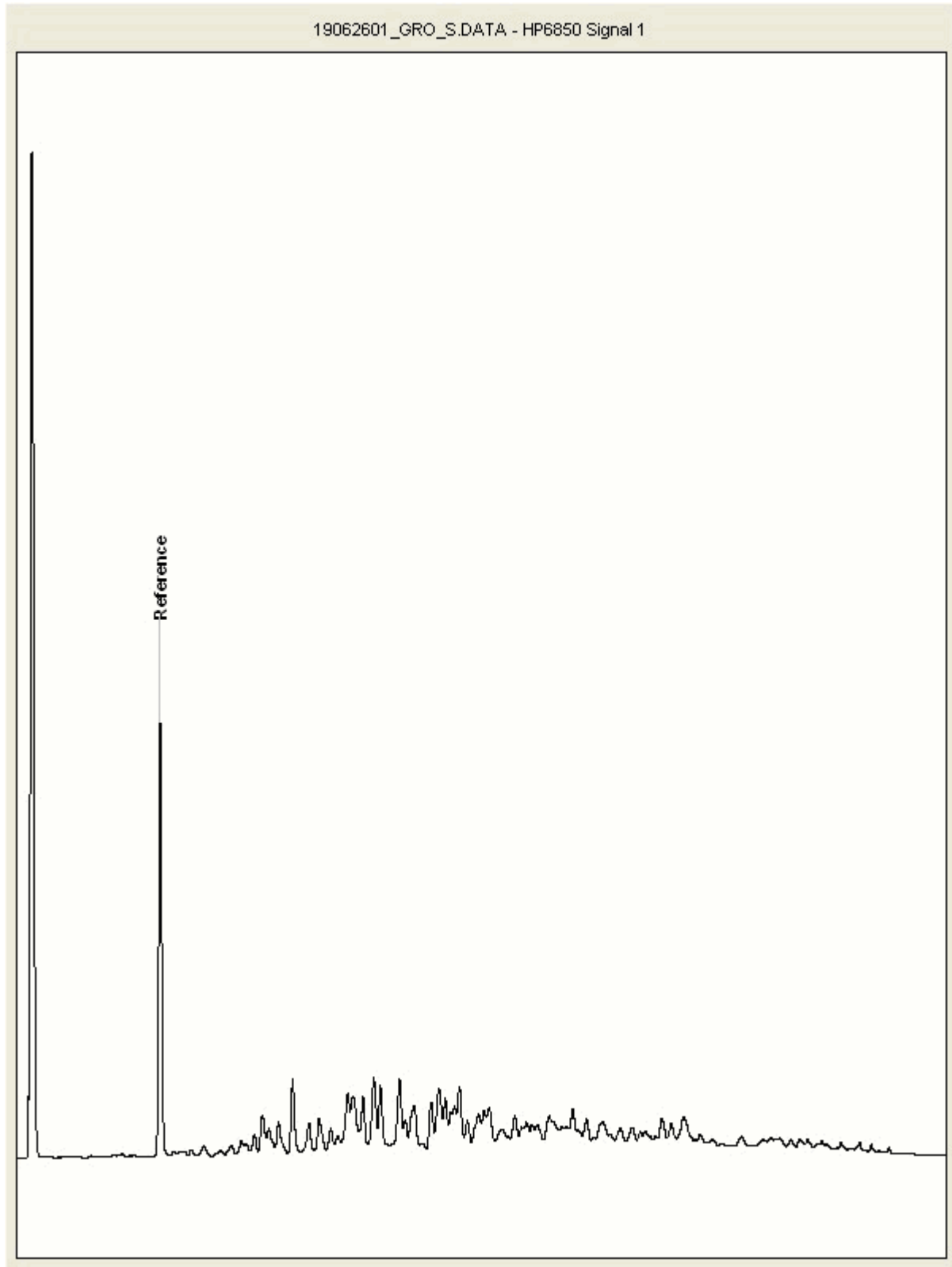
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19062601
Sample ID : BH204

Depth : 2.00 - 3.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

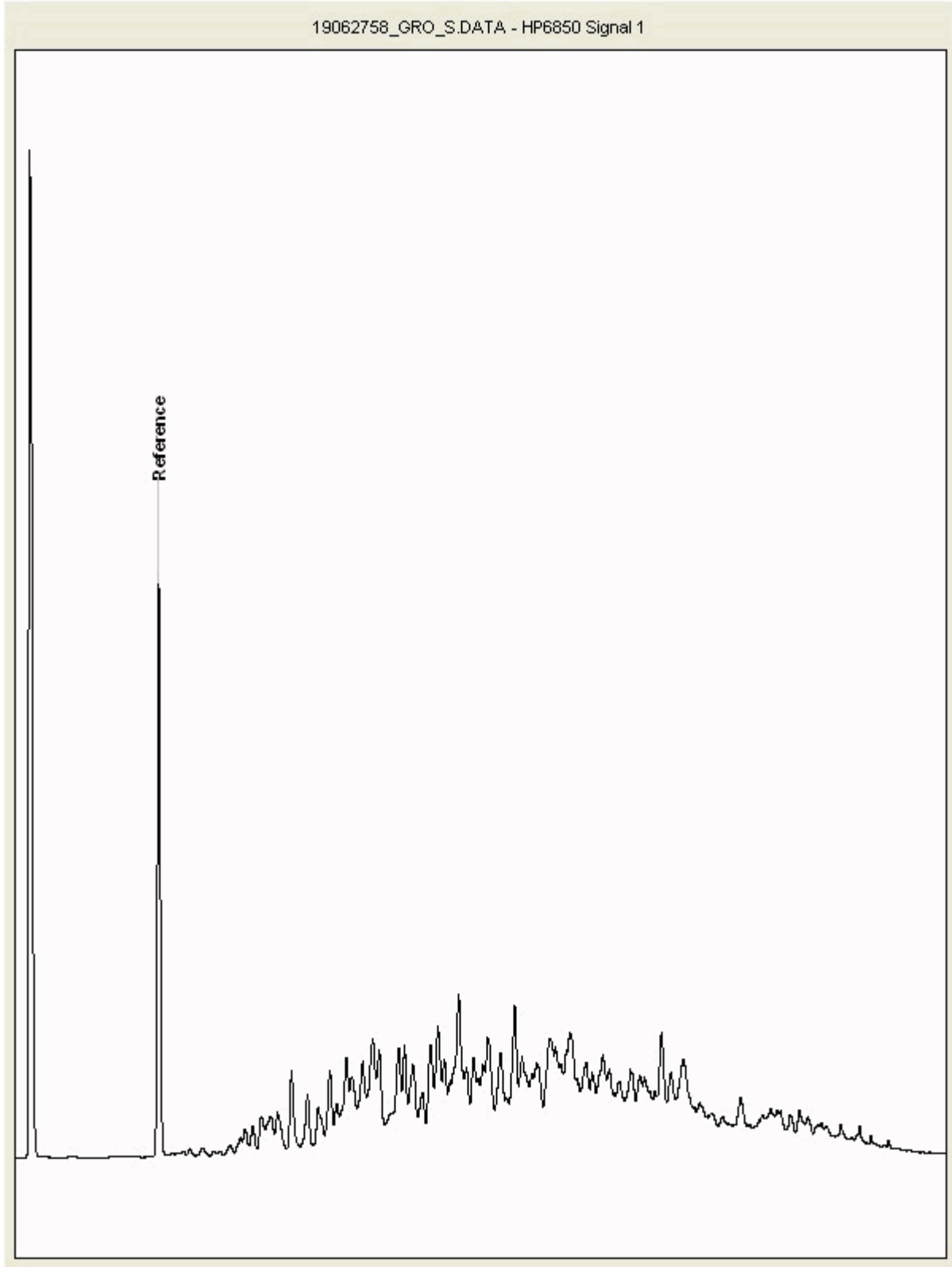
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19062758
Sample ID : BH204

Depth : 1.00 - 2.00





CERTIFICATE OF ANALYSIS

Validated

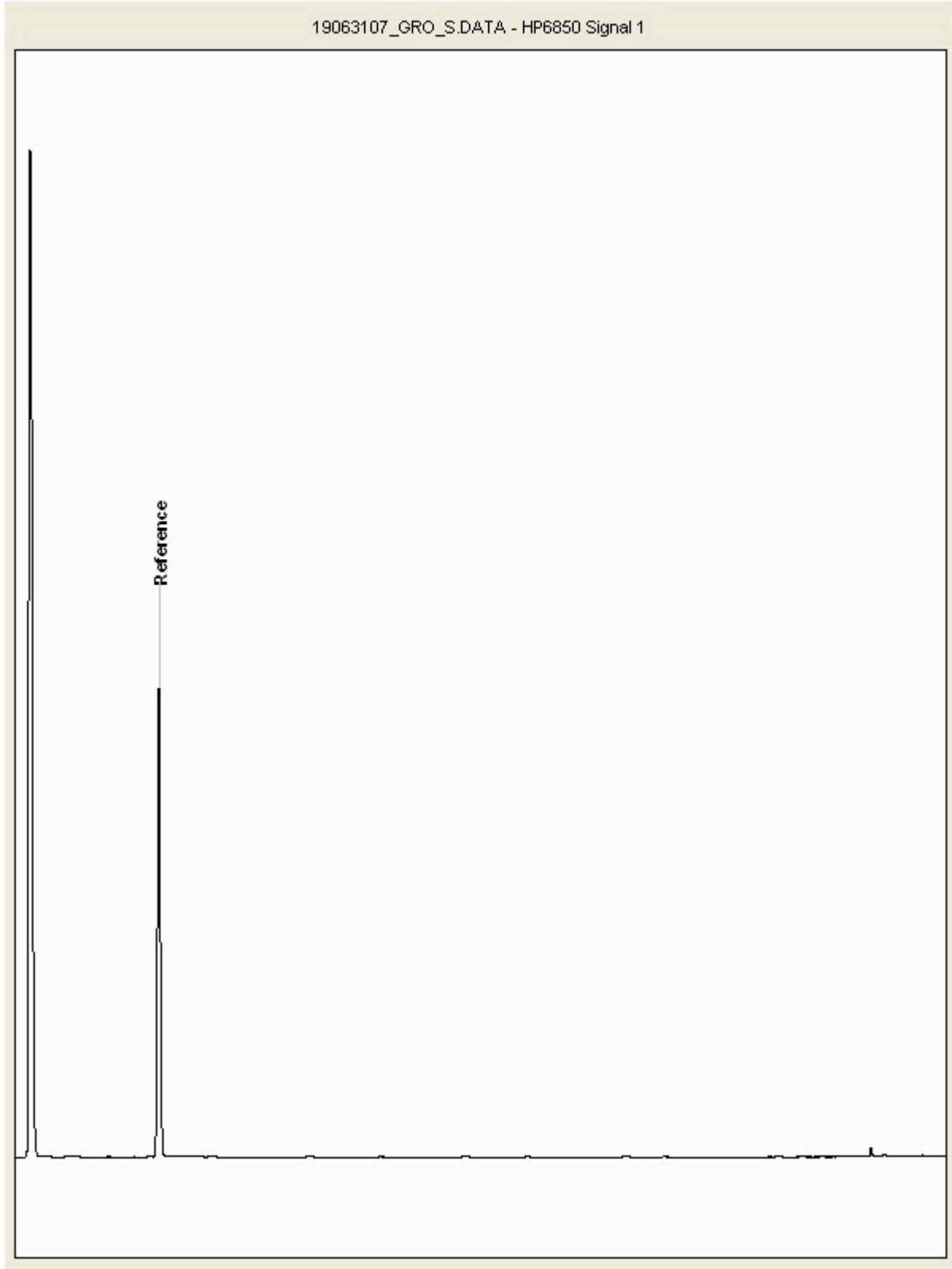
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19063107
Sample ID : BH202

Depth : 11.50 - 13.00





CERTIFICATE OF ANALYSIS

Validated

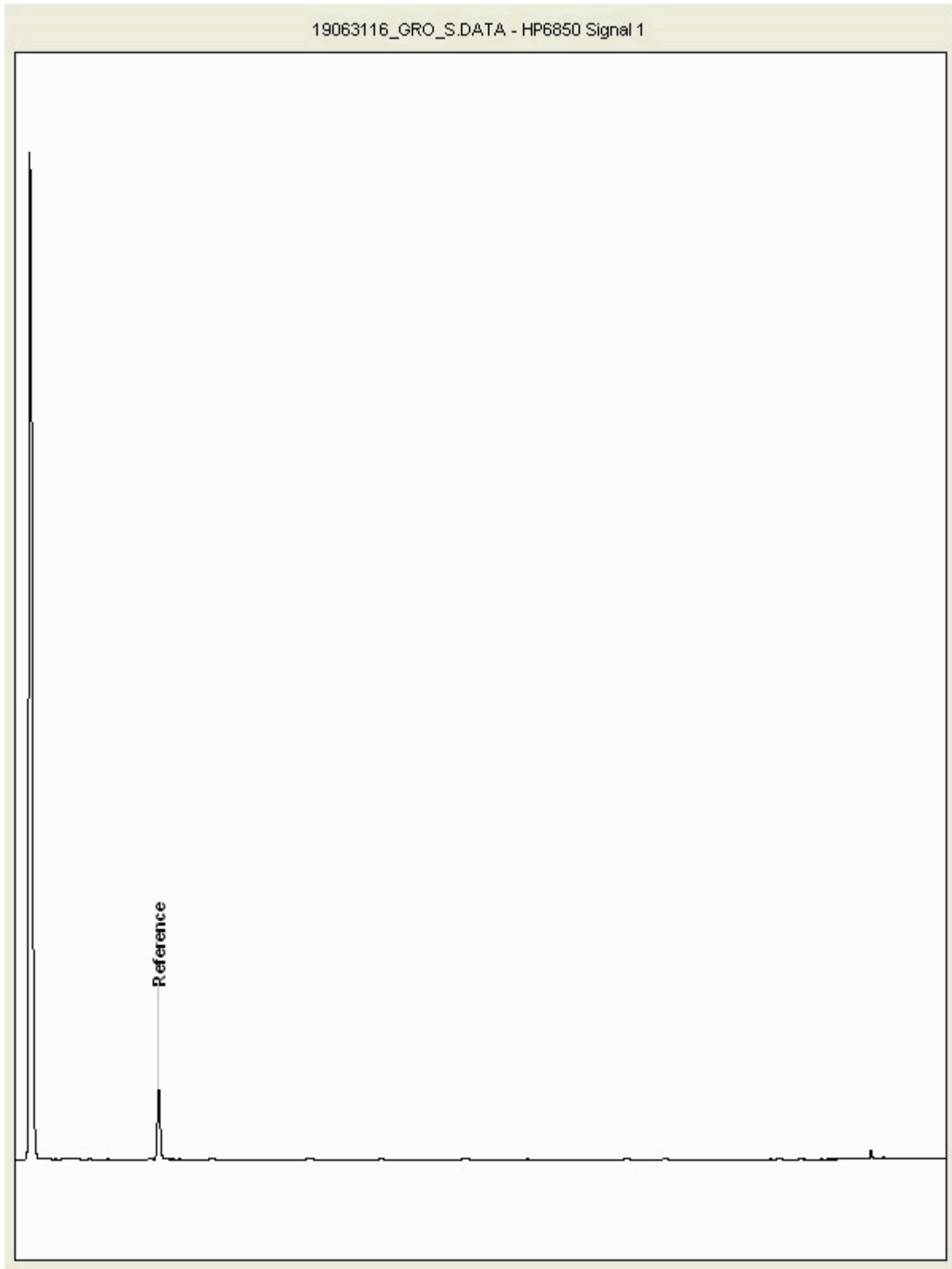
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19063116
Sample ID : BH202

Depth : 13.00 - 14.00





CERTIFICATE OF ANALYSIS

Validated

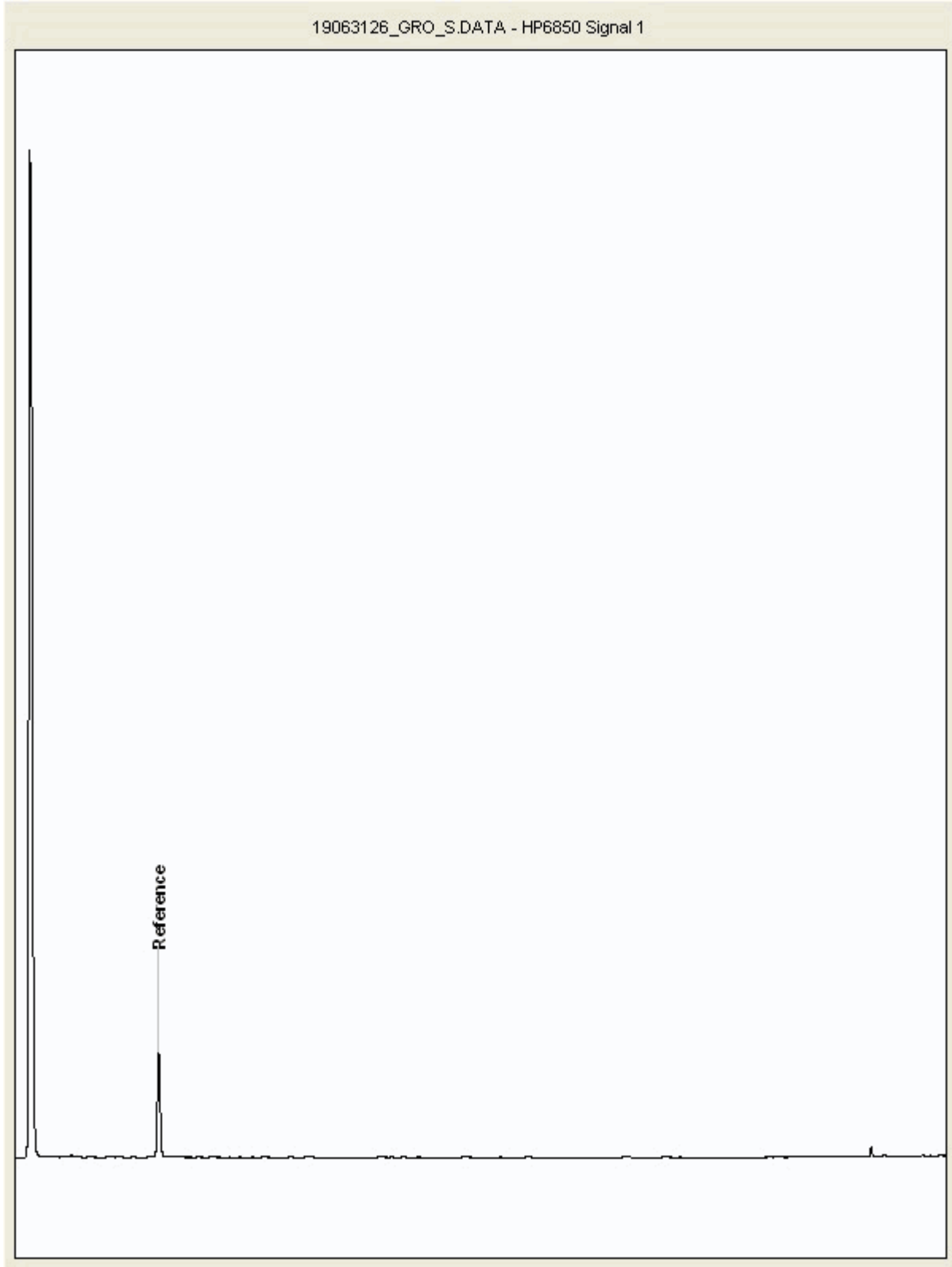
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19063126
Sample ID : BH204

Depth : 14.00 - 15.00





CERTIFICATE OF ANALYSIS

Validated

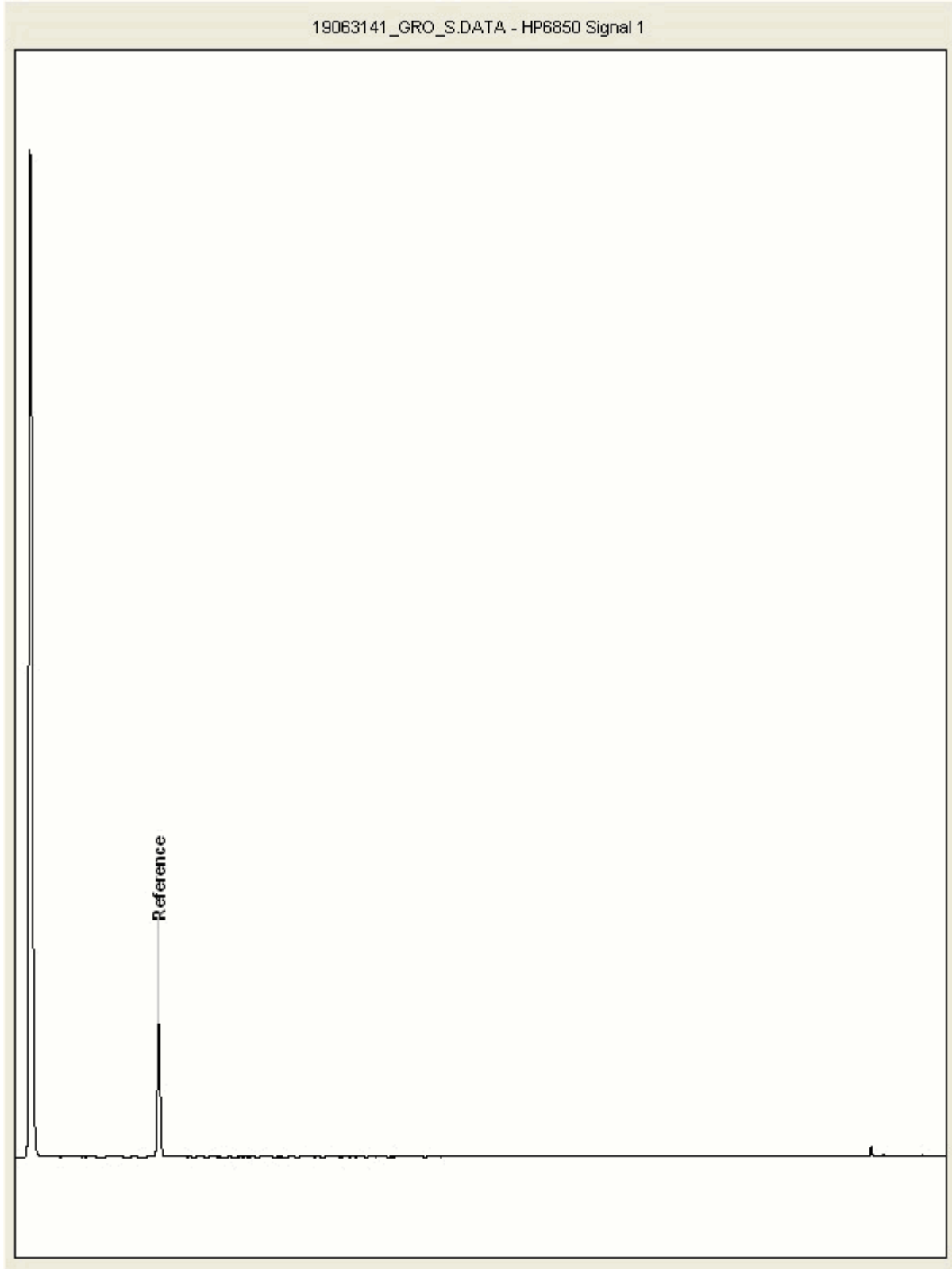
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19063141
Sample ID : BH204

Depth : 16.00 - 17.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

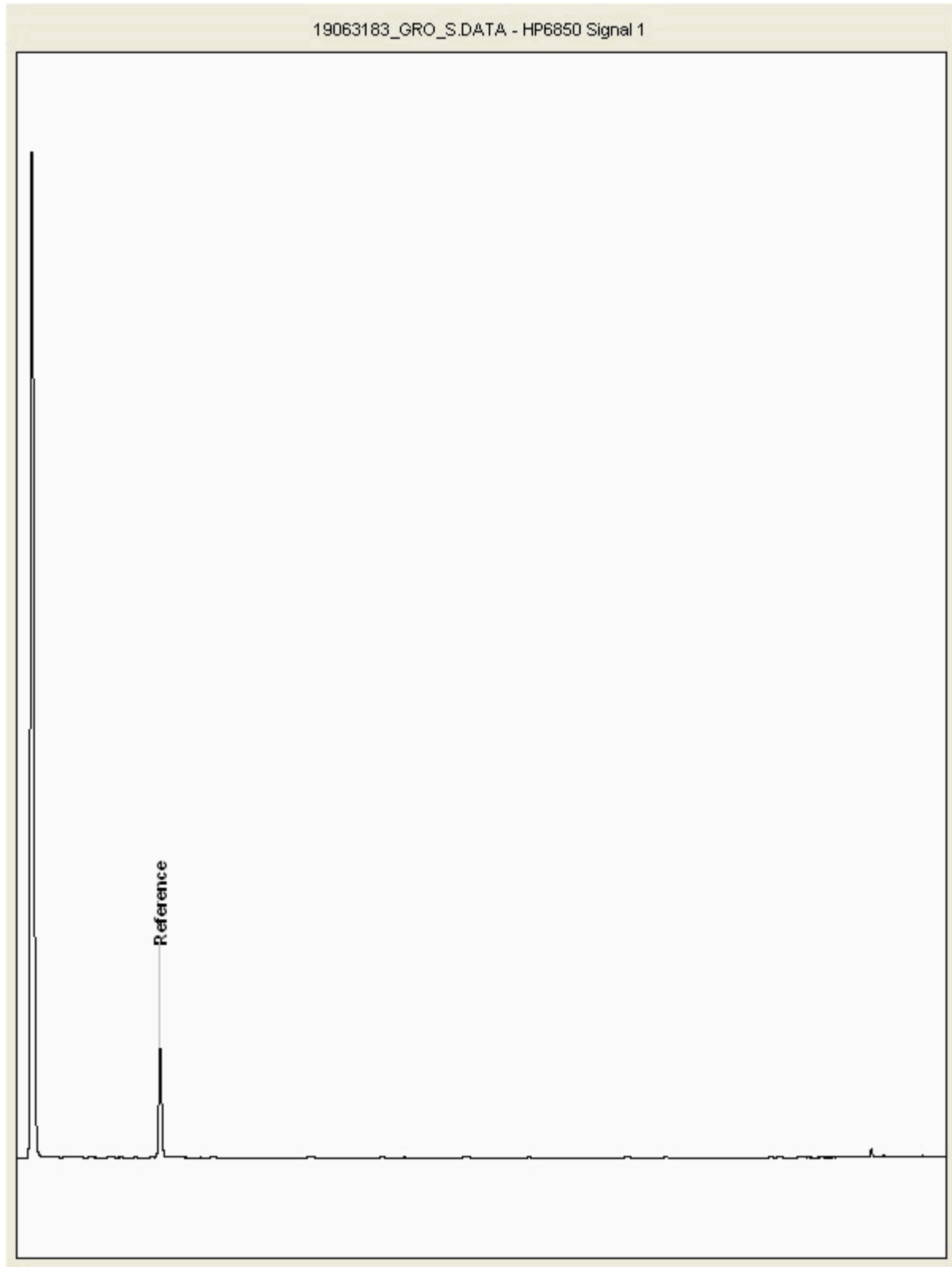
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19063183
Sample ID : BH202

Depth : 15.00 - 17.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

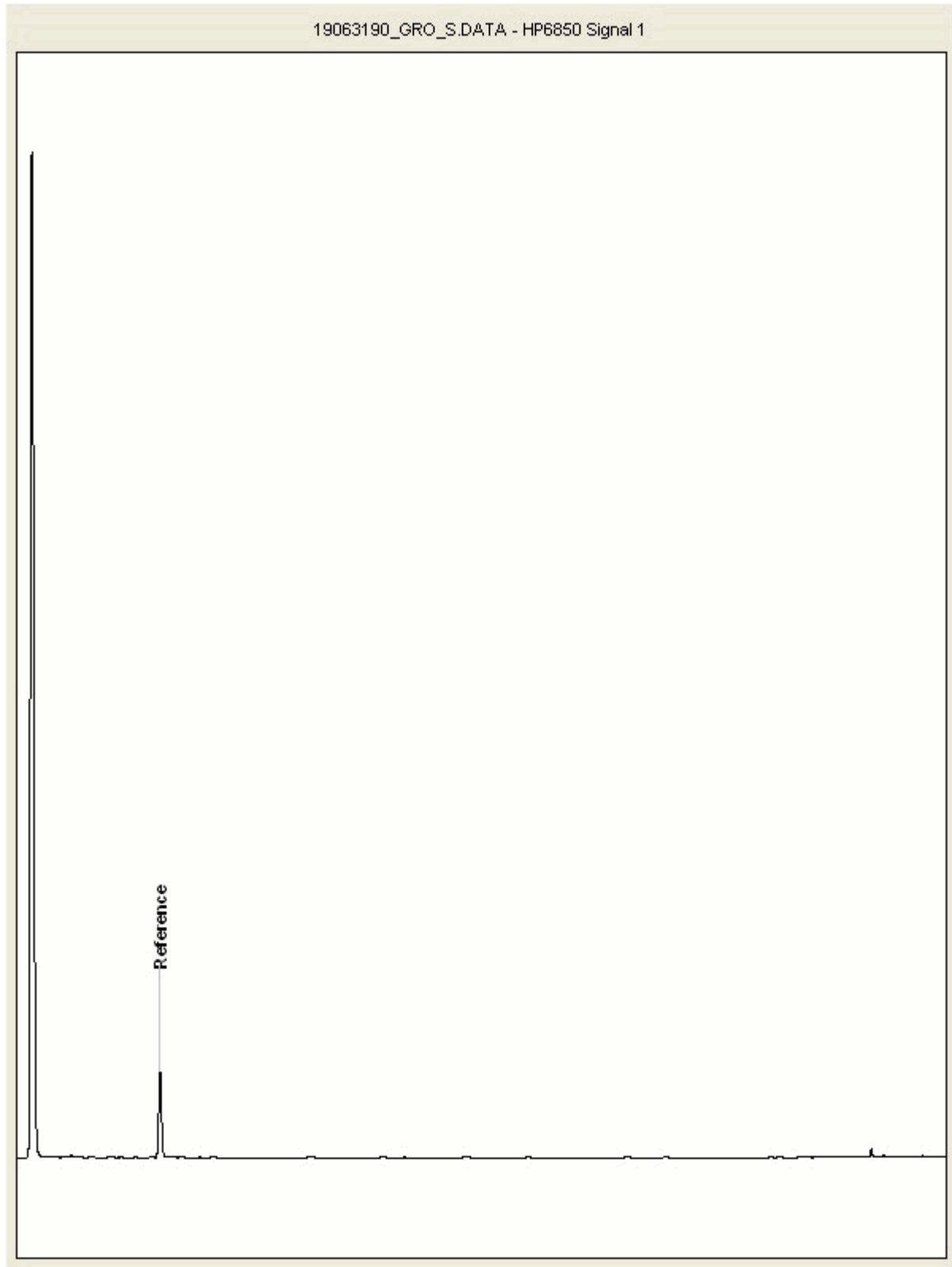
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19063190
Sample ID : BH203

Depth : 15.00 - 16.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

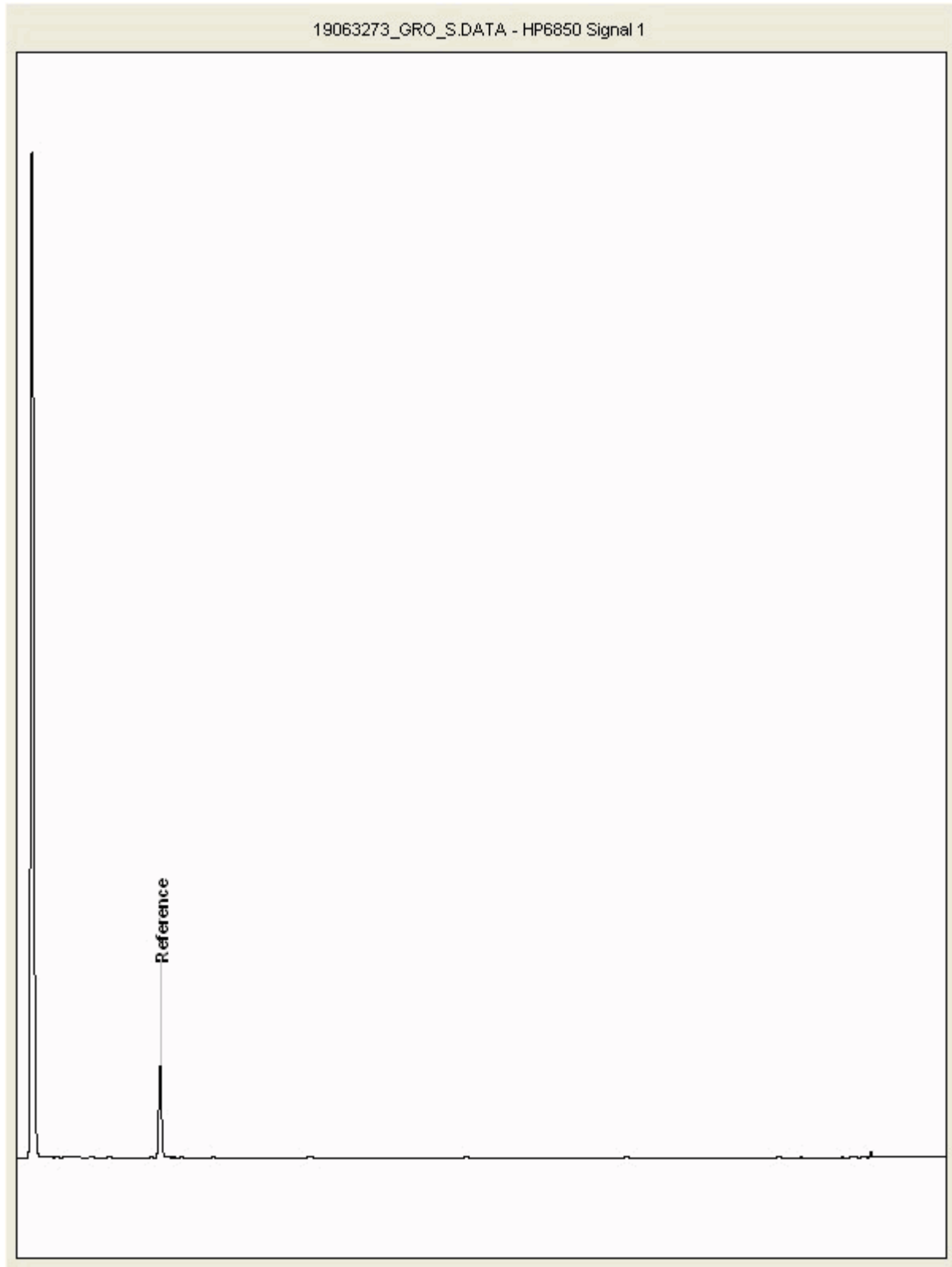
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19063273
Sample ID : BH203

Depth : 13.00 - 14.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

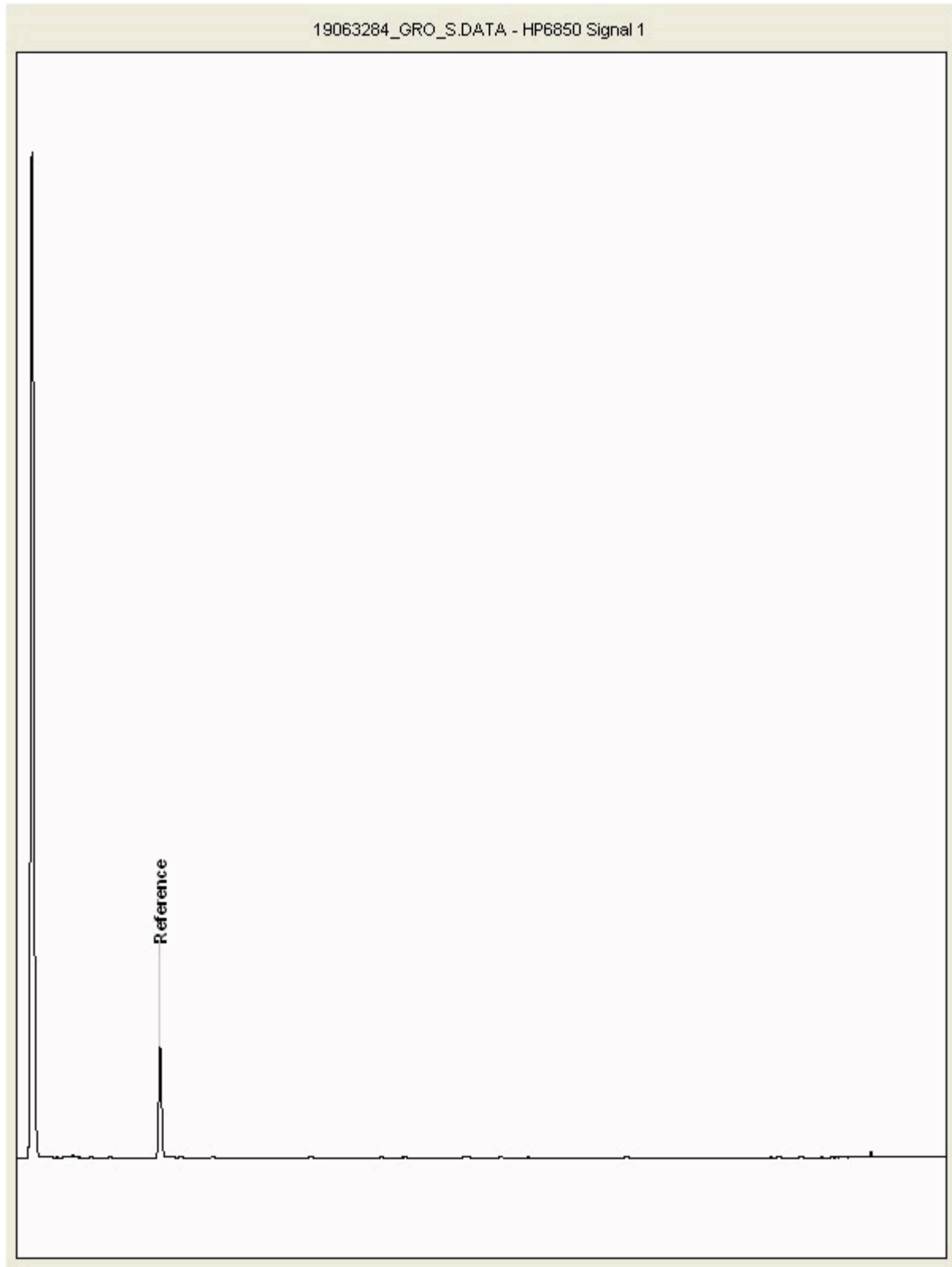
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19063284
Sample ID : BH203

Depth : 14.00 - 15.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

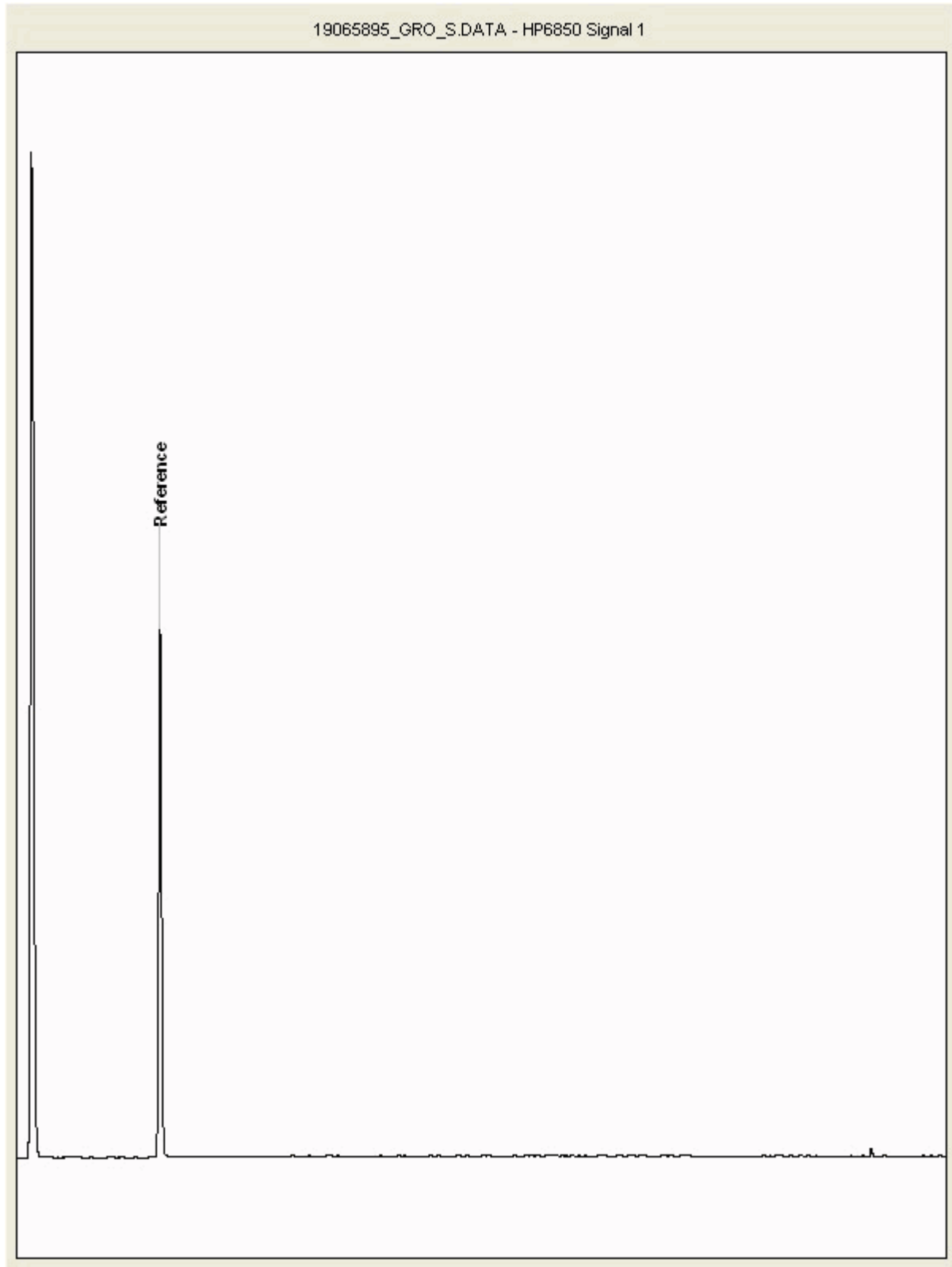
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19065895
Sample ID : BH204

Depth : 8.00 - 10.00





CERTIFICATE OF ANALYSIS

Validated

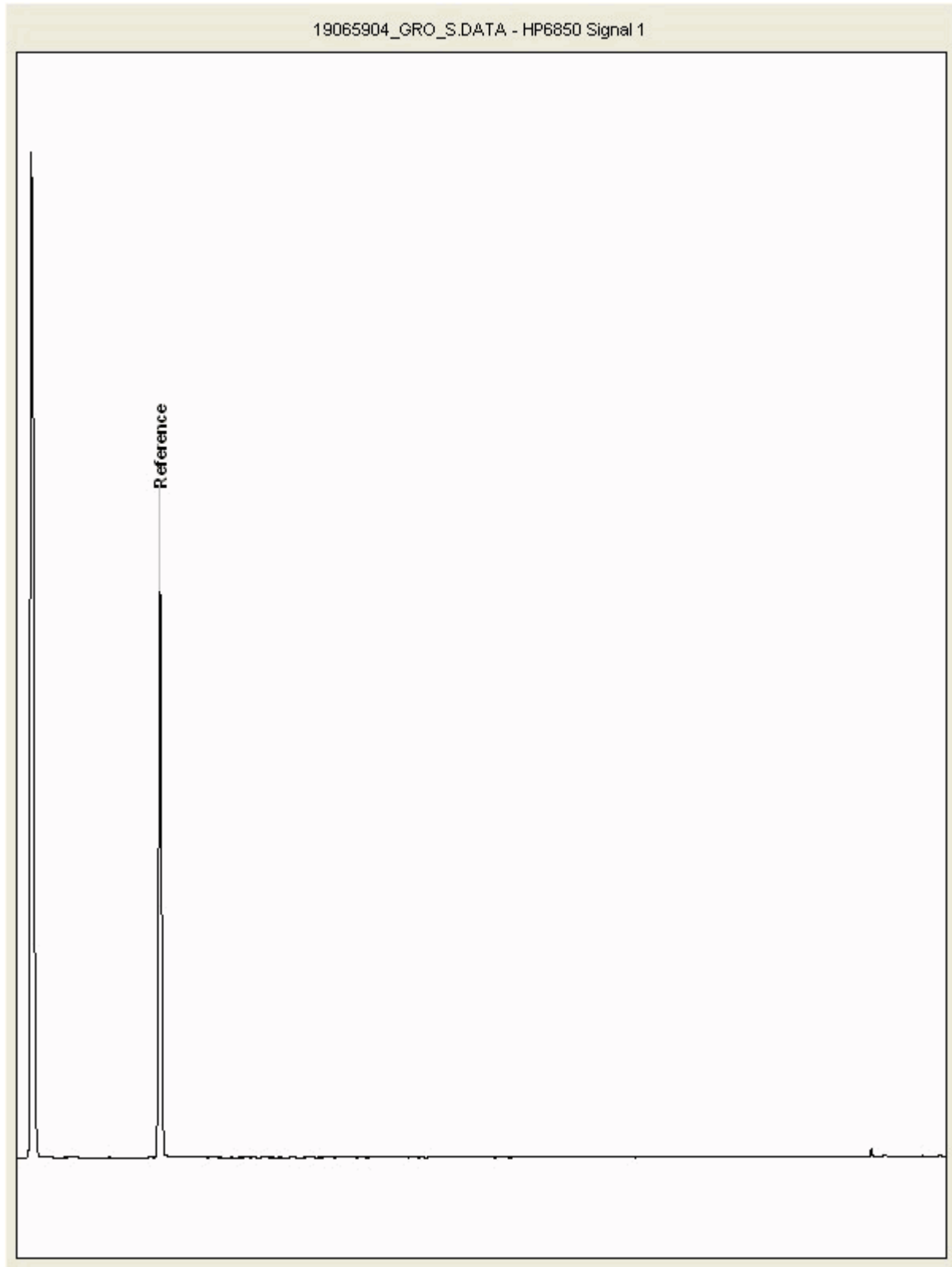
SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19065904
Sample ID : BH204

Depth : 11.00 - 12.50





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

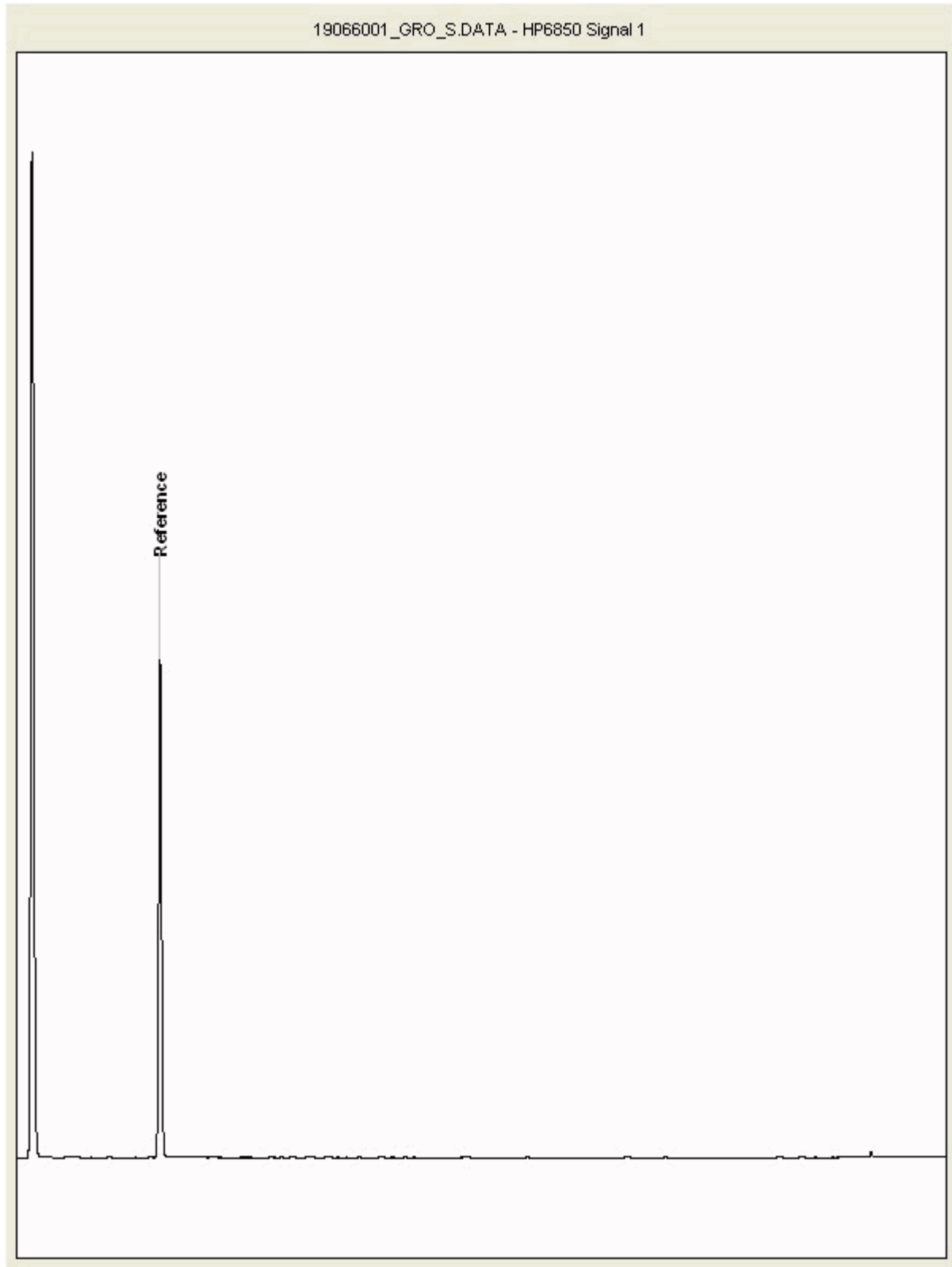
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19066001
Sample ID : BH210

Depth : 10.00 - 11.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

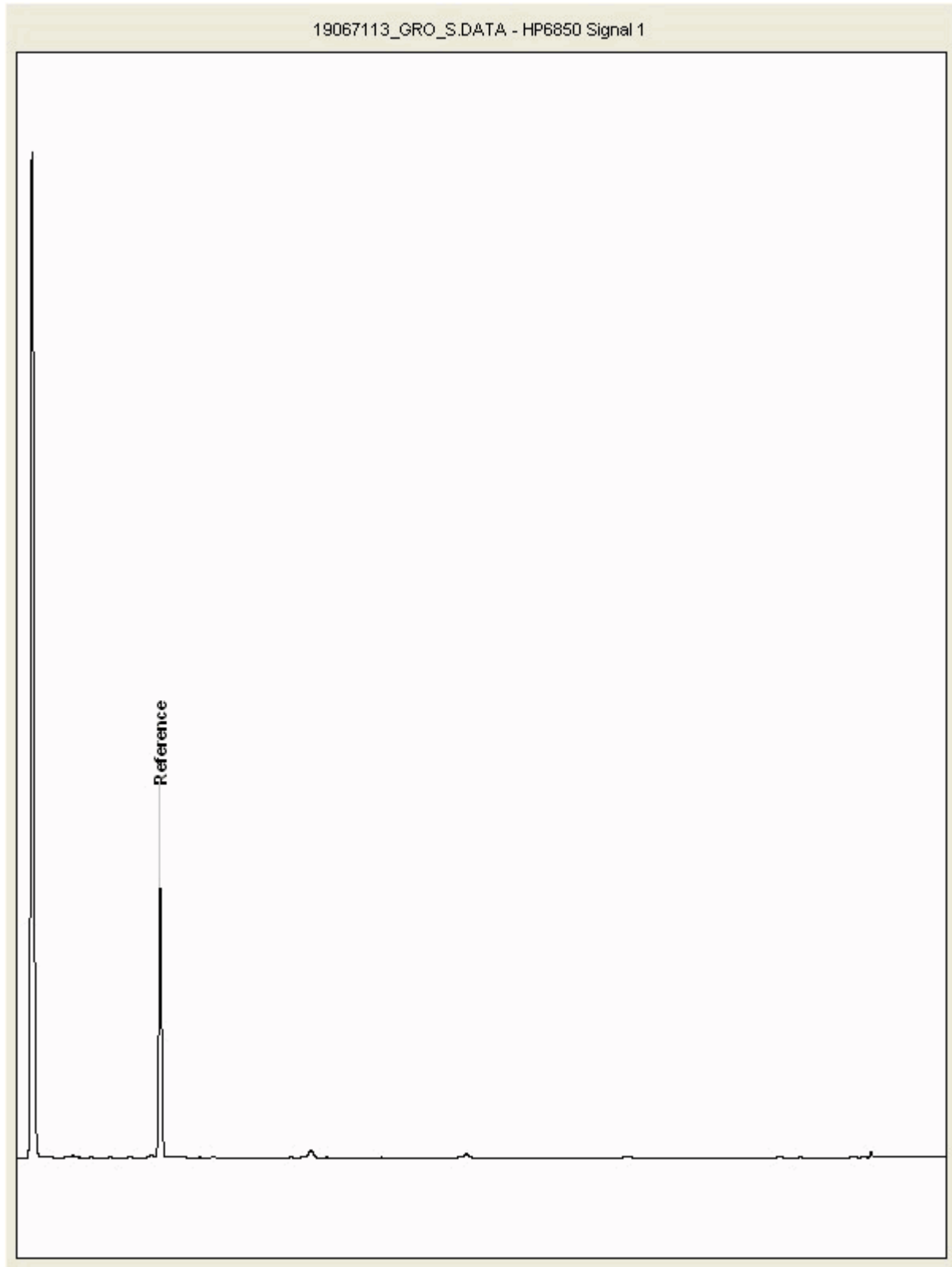
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19067113
Sample ID : BH201

Depth : 13.00 - 14.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

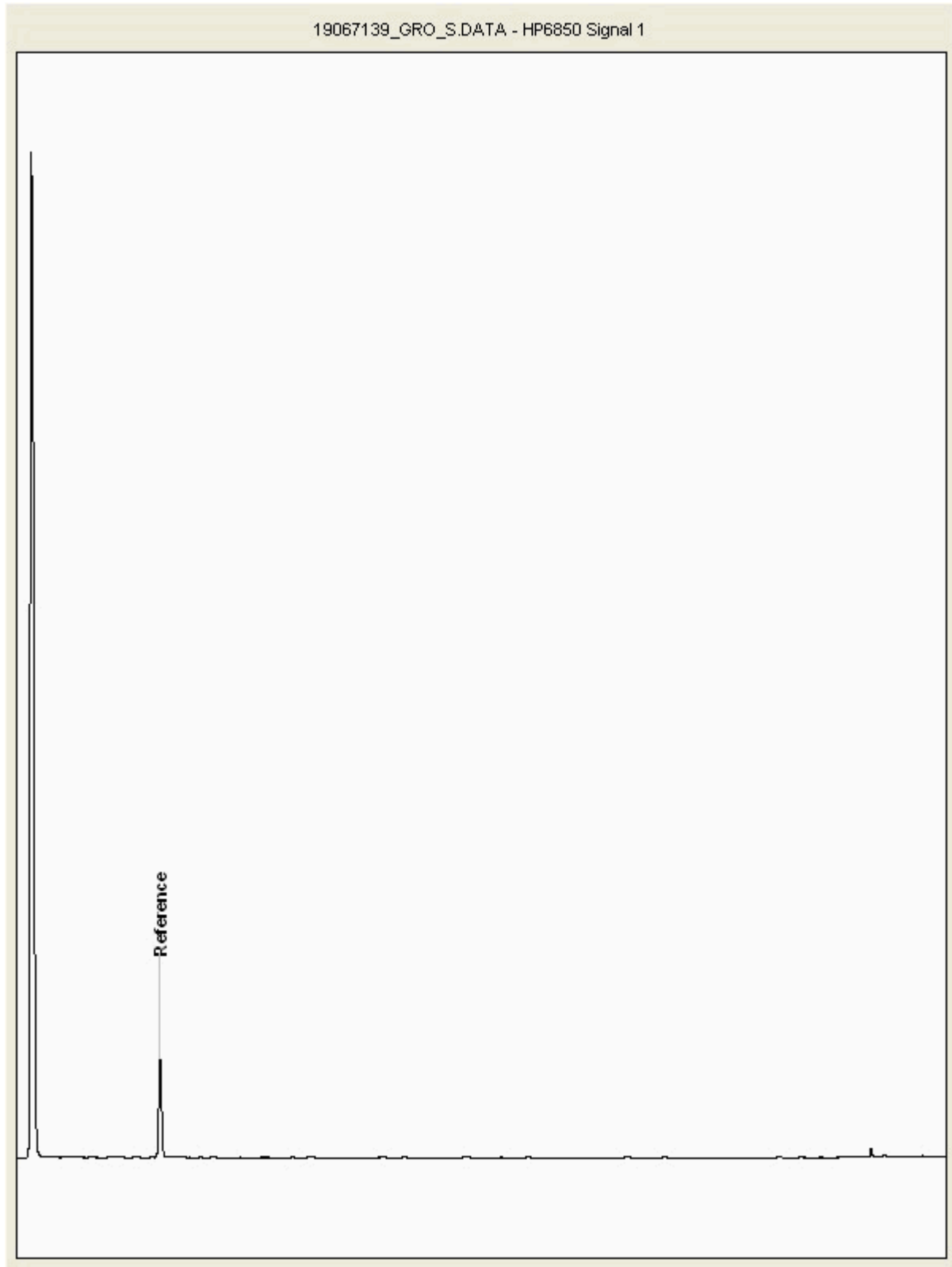
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19067139
Sample ID : BH201

Depth : 16.00 - 17.00





CERTIFICATE OF ANALYSIS

Validated

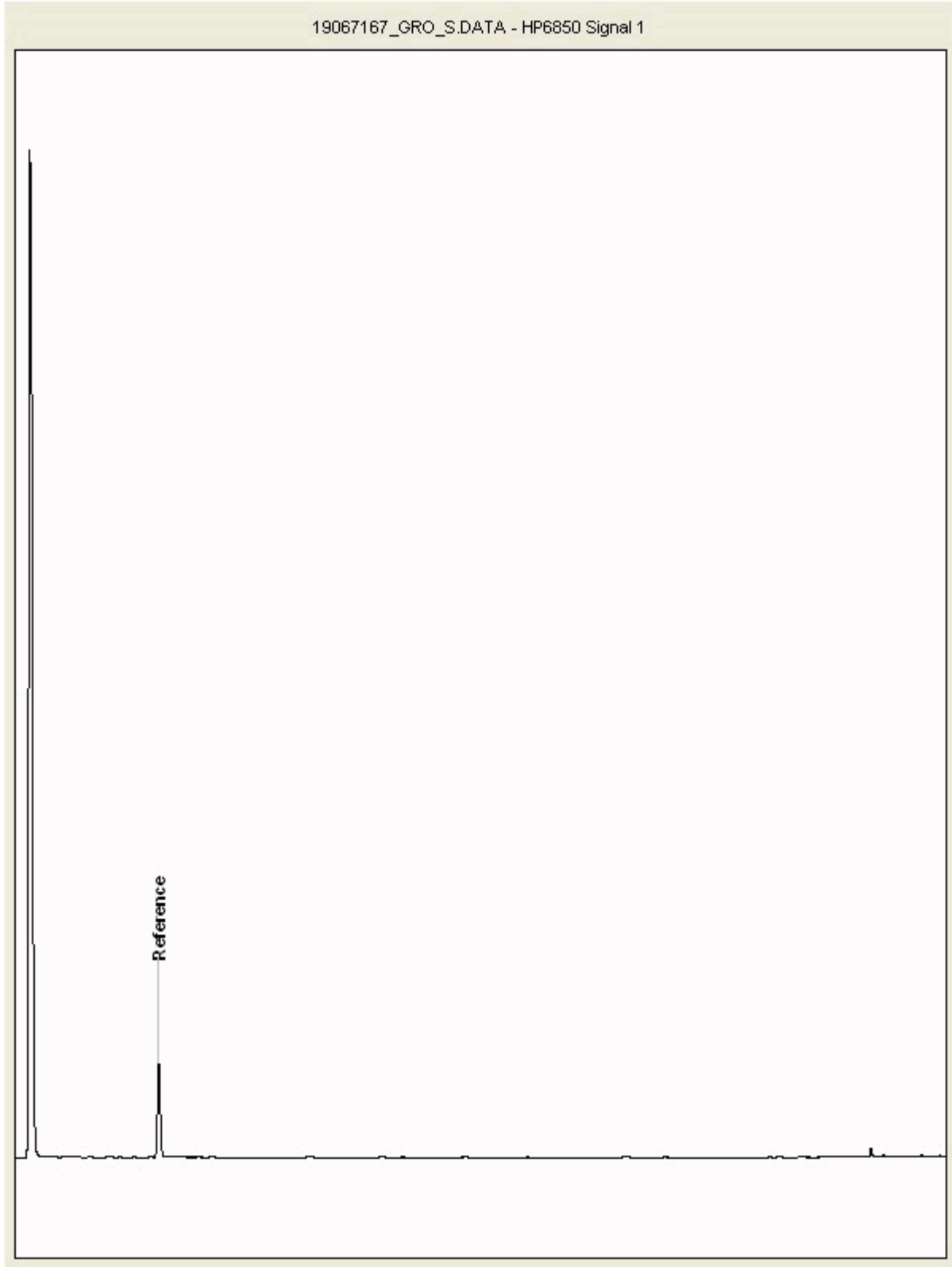
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19067167
Sample ID : BH201

Depth : 15.00 - 16.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

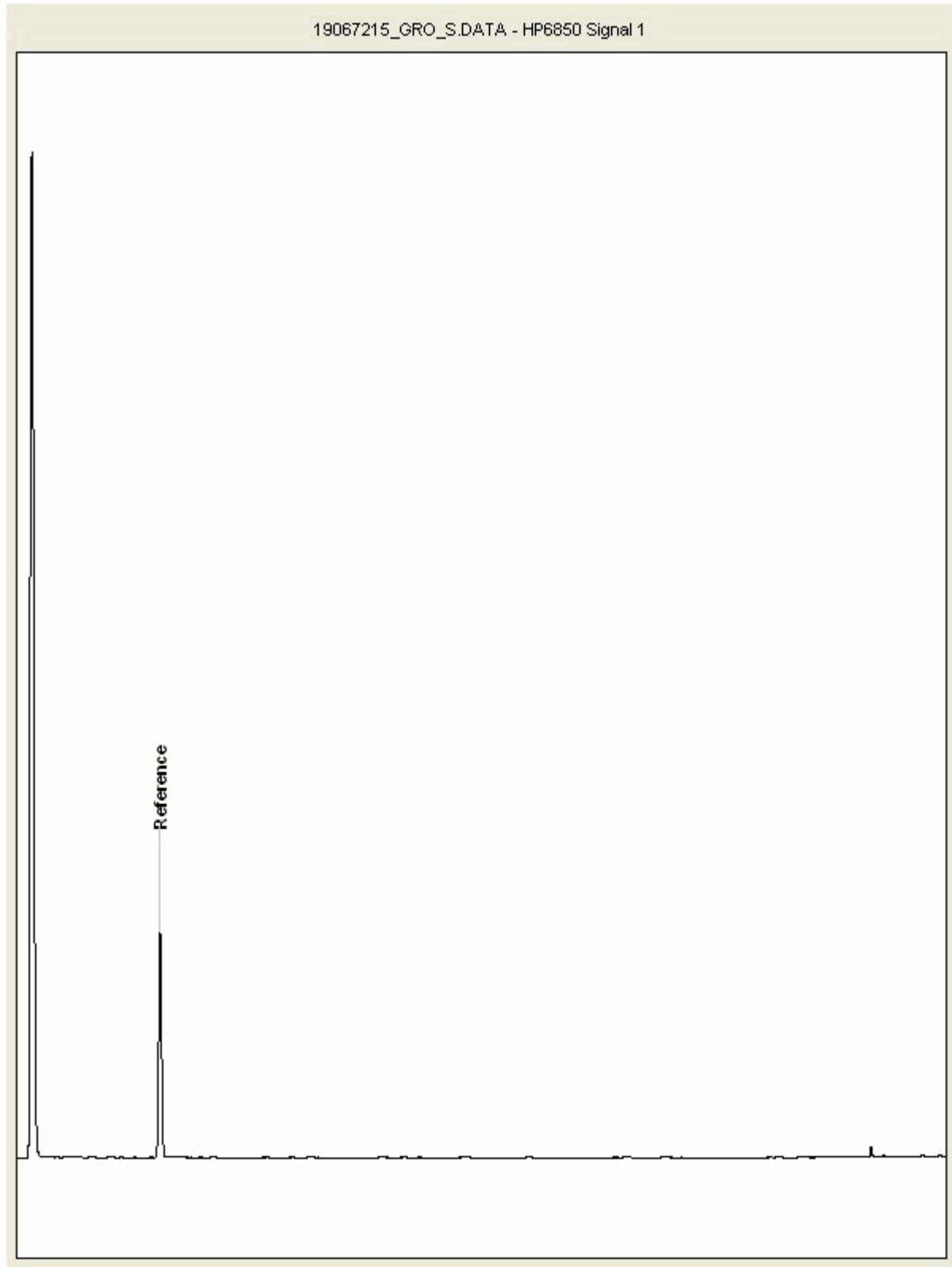
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19067215
Sample ID : BH201

Depth : 14.00 - 15.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

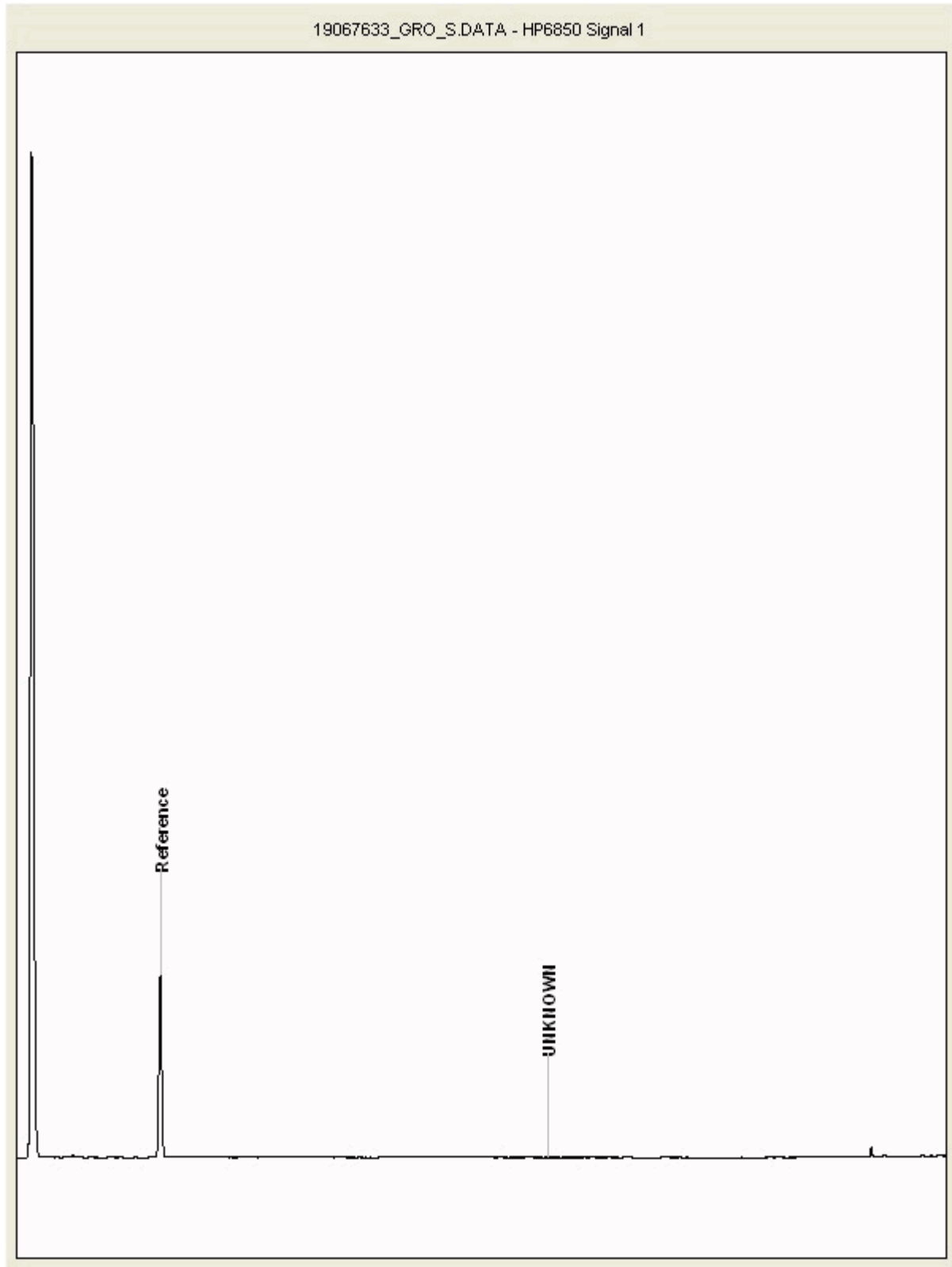
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19067633
Sample ID : BH202

Depth : 14.00 - 15.00





CERTIFICATE OF ANALYSIS

Validated

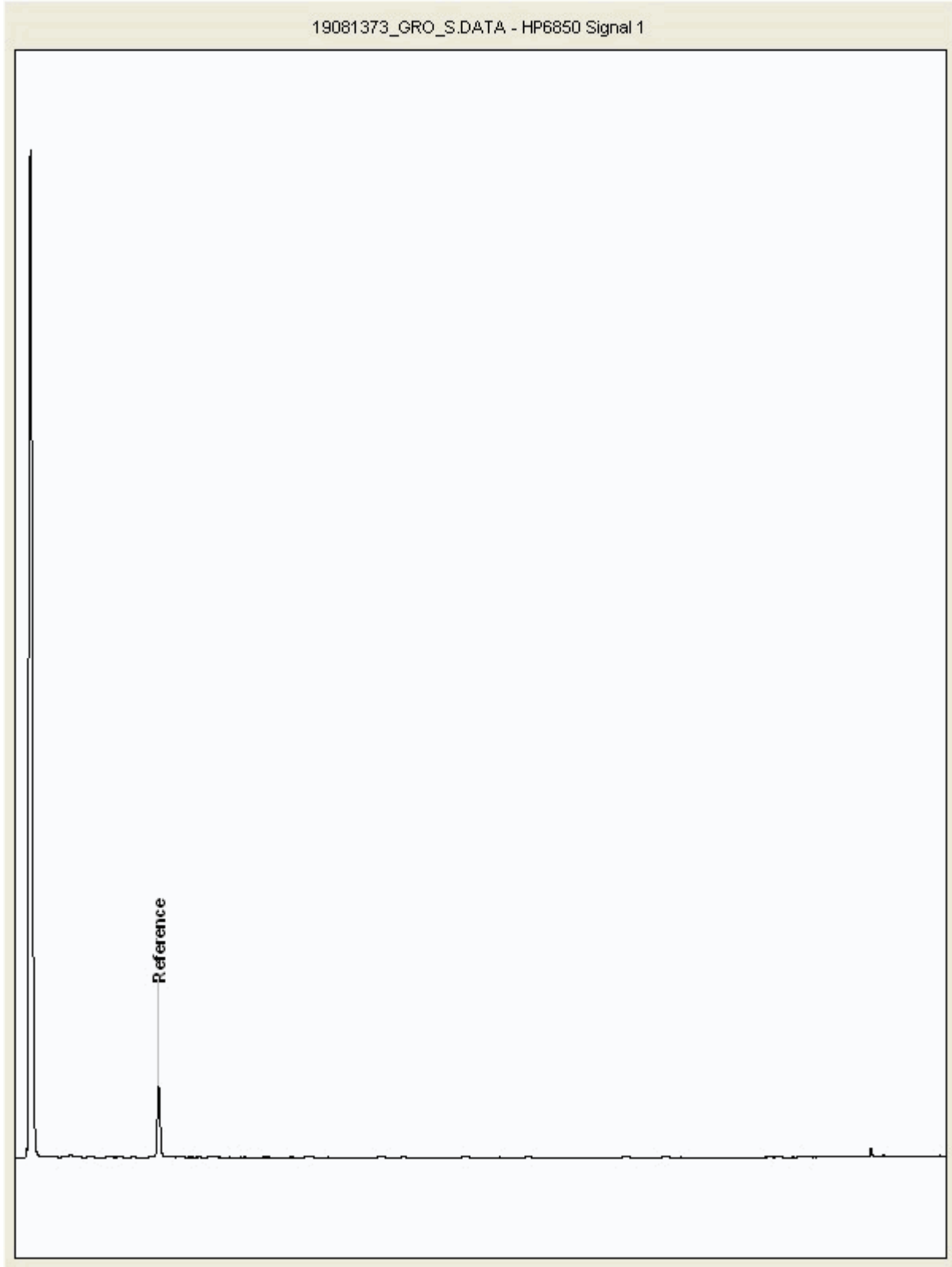
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19081373
Sample ID : BH210

Depth : 13.00 - 15.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

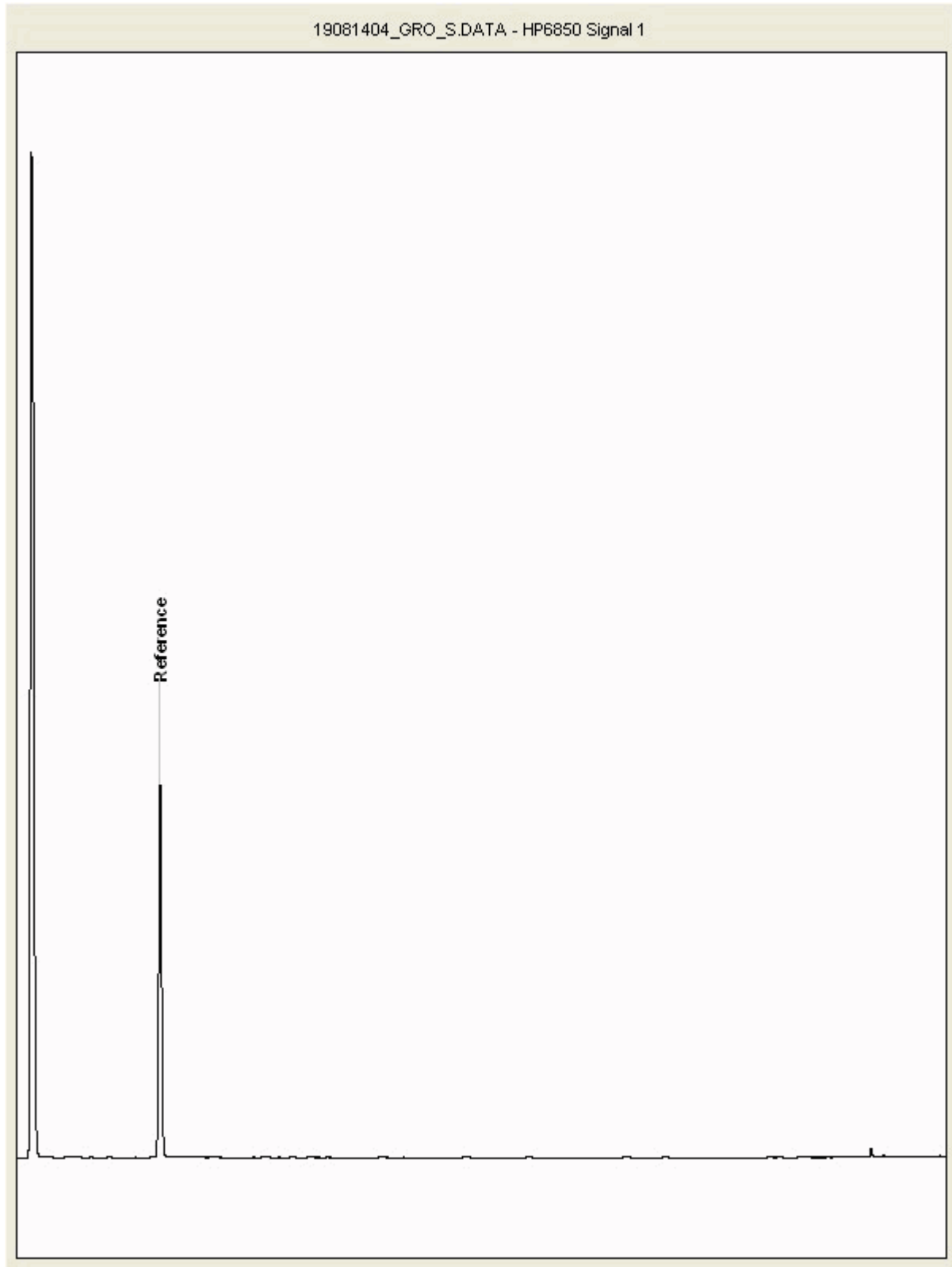
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19081404
Sample ID : BH210

Depth : 11.00 - 12.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

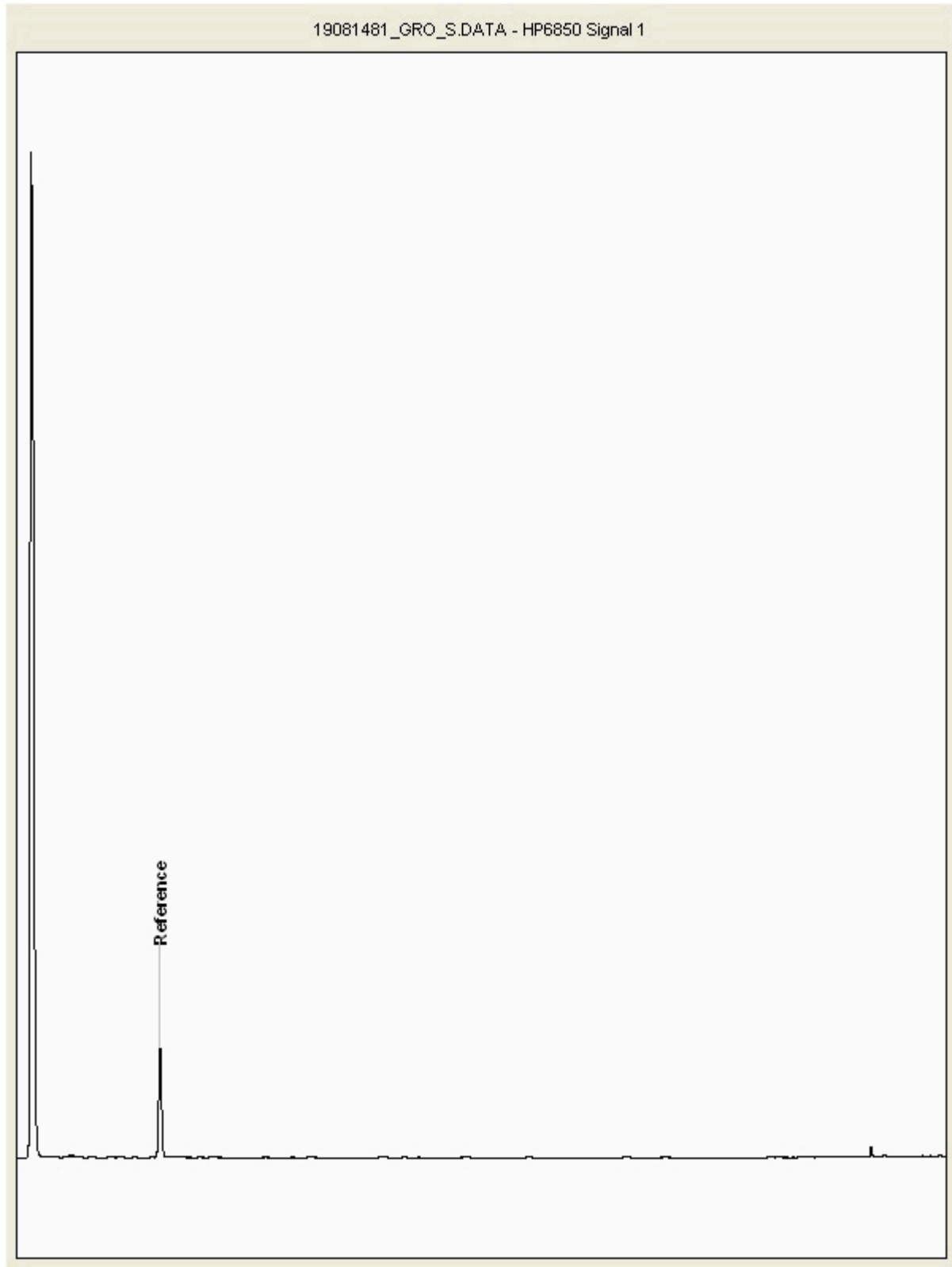
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19081481
Sample ID : BH210

Depth : 16.00 - 17.00





CERTIFICATE OF ANALYSIS

Validated

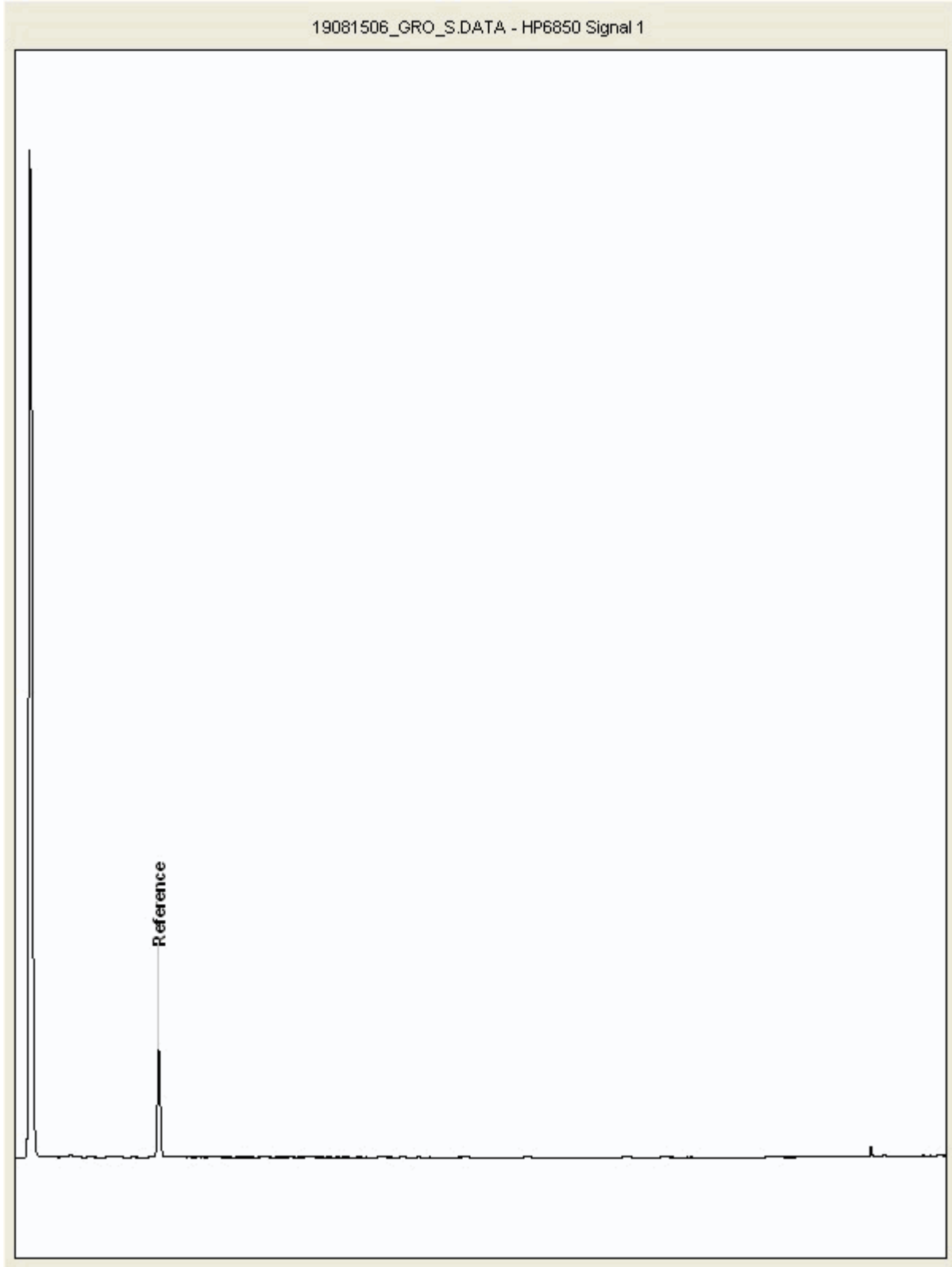
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19081506
Sample ID : BH210

Depth : 12.00 - 13.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

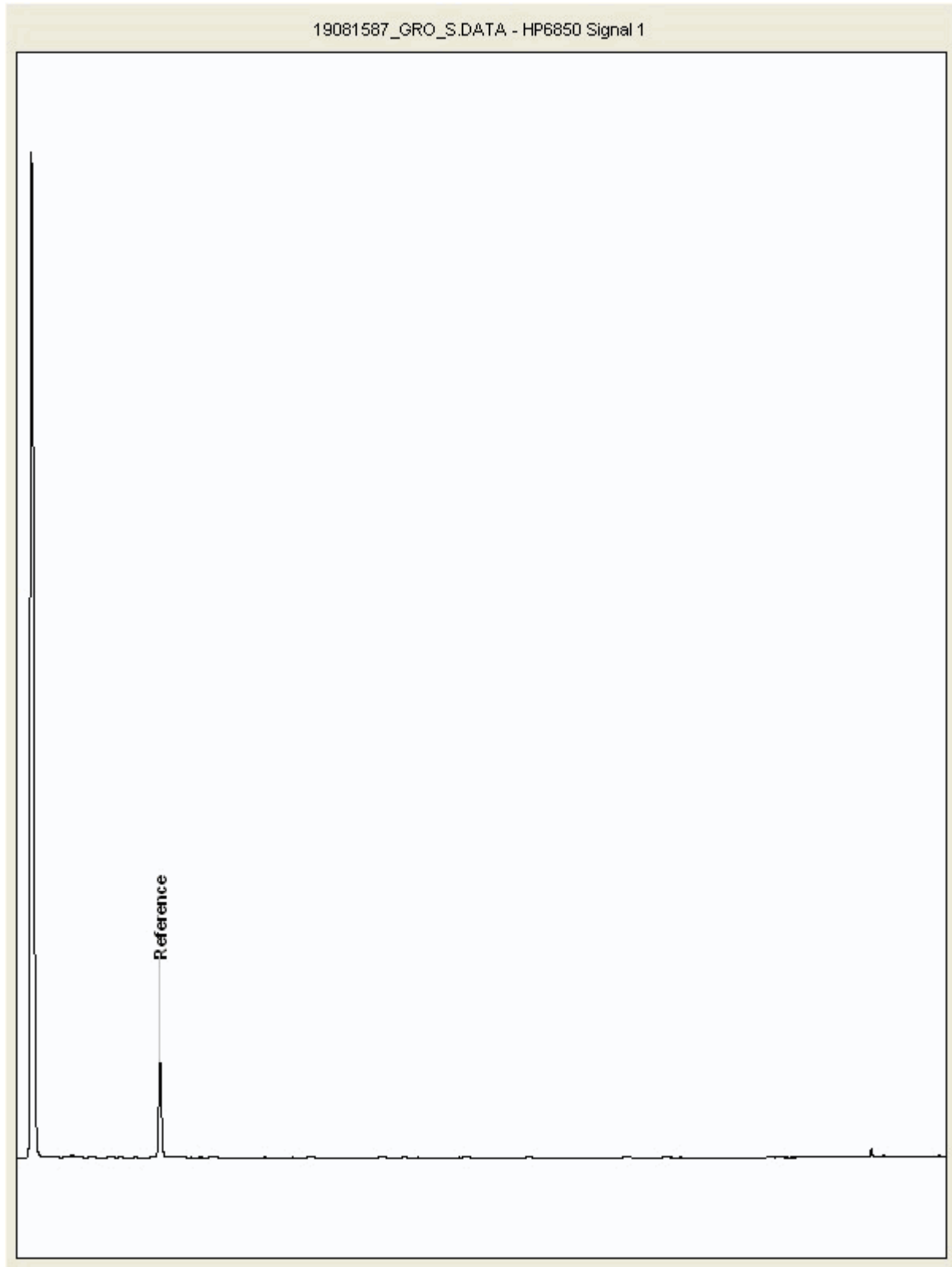
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19081587
Sample ID : BH210

Depth : 15.00 - 16.00





CERTIFICATE OF ANALYSIS

Validated

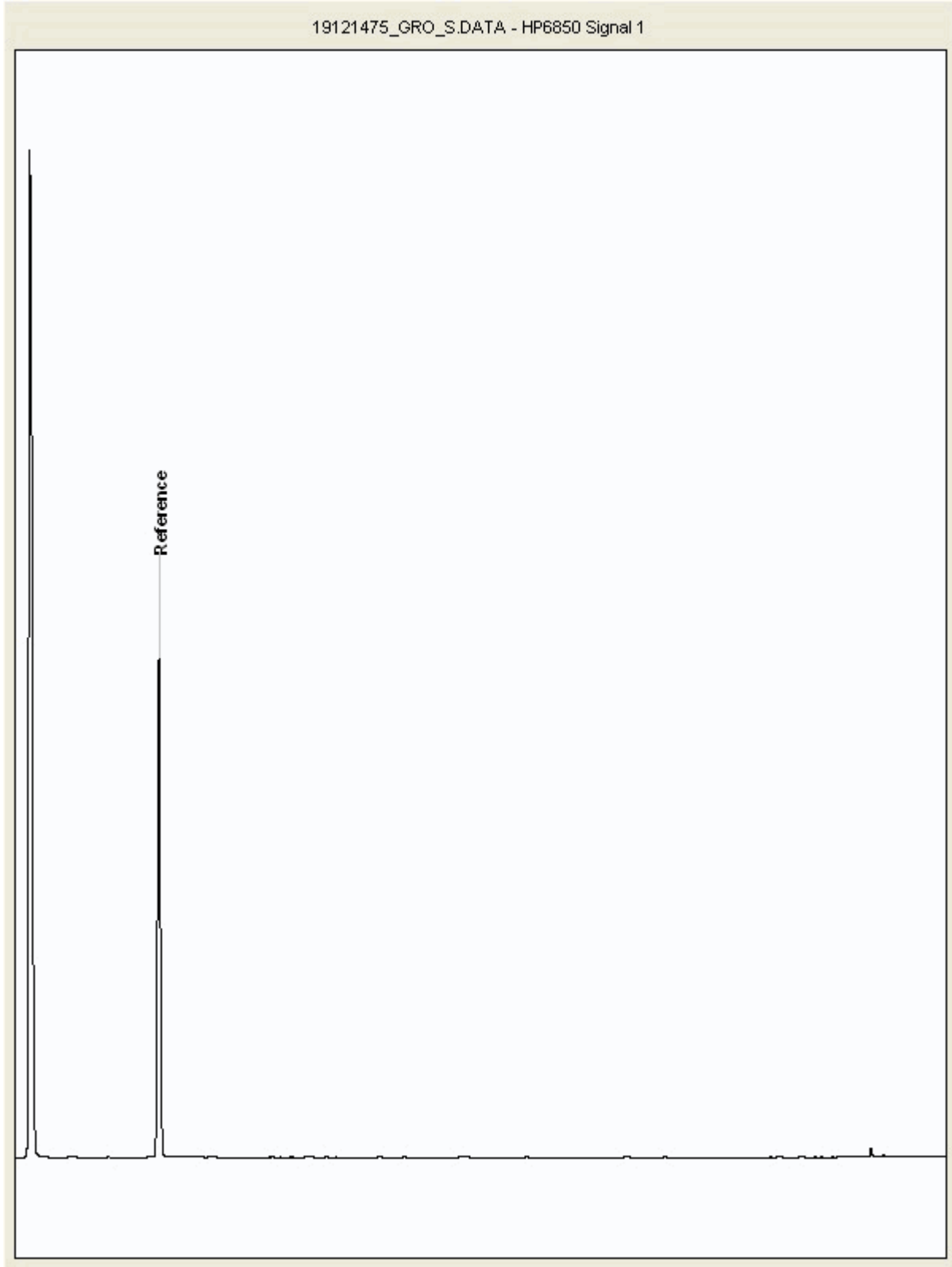
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19121475
Sample ID : BH205

Depth : 10.00 - 12.00





CERTIFICATE OF ANALYSIS

Validated

SDG: 181219-89
Location: City Block 9

Client Reference: 602387
Order Number: P2021550

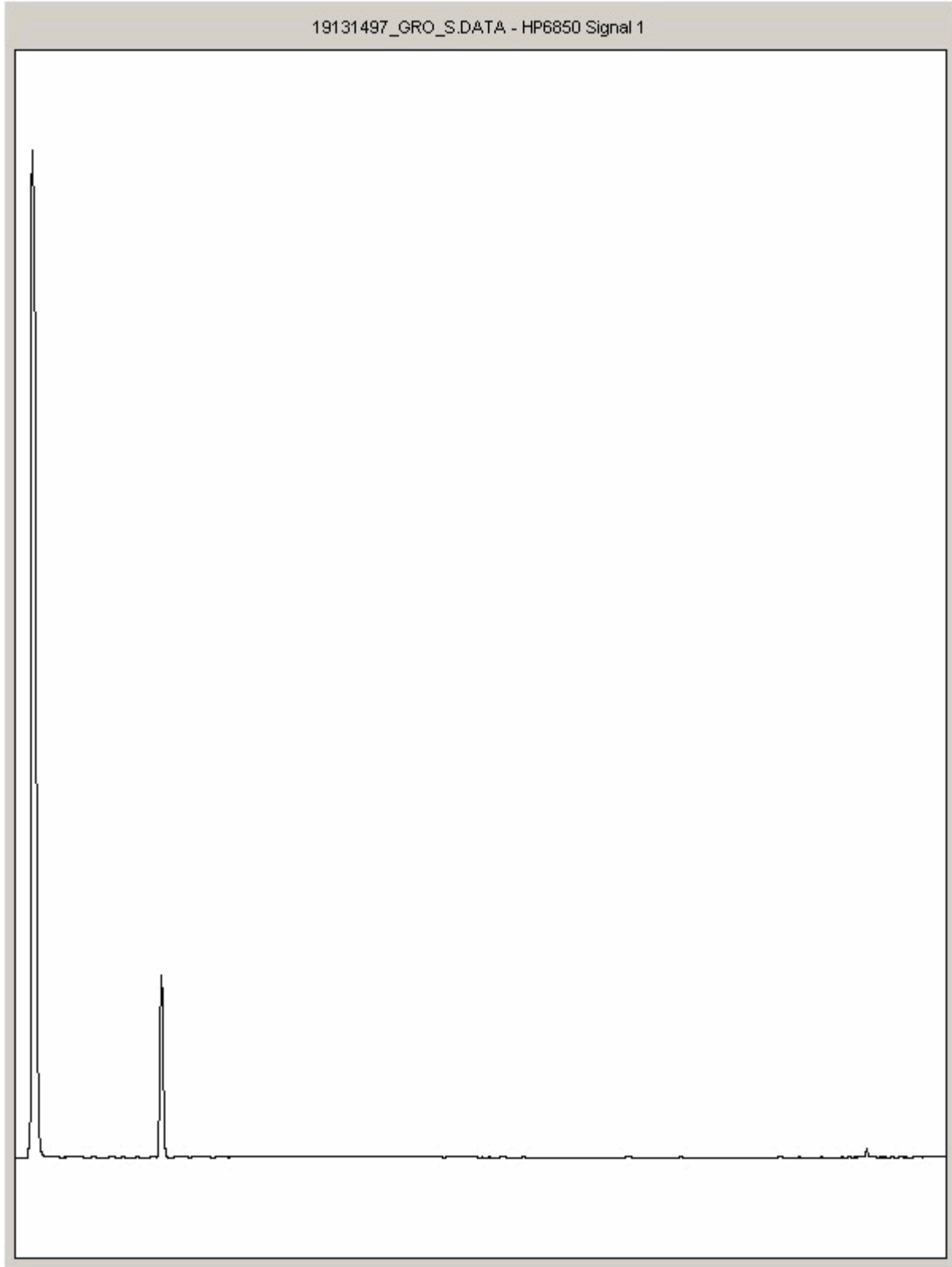
Report Number: 489223
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19131497
Sample ID : BH205

Depth : 14.00 - 16.00





CERTIFICATE OF ANALYSIS

Validated

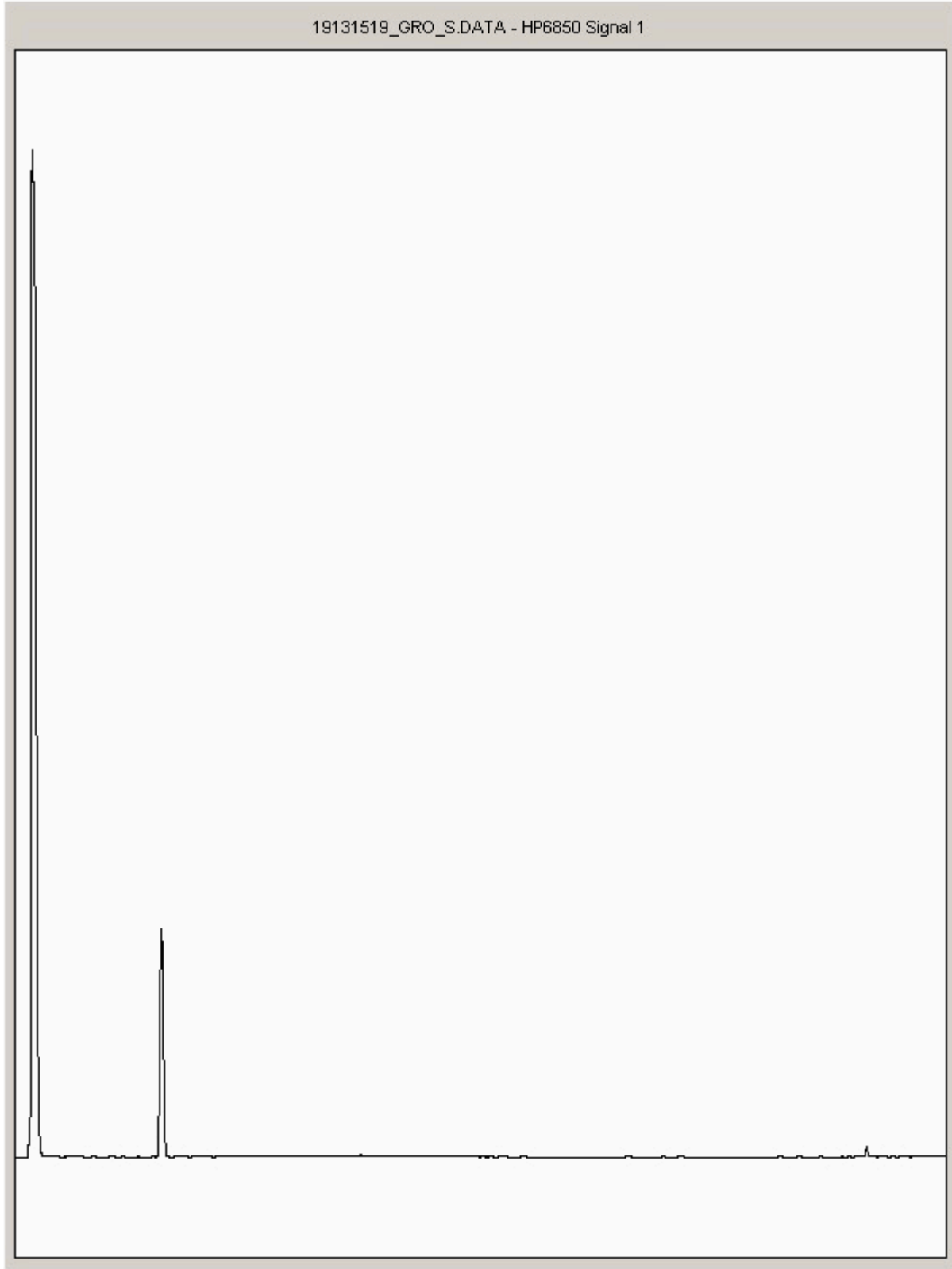
SDG: 181219-89 Client Reference: 602387 Report Number: 489223
Location: City Block 9 Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 19131519
Sample ID : BH205

Depth : 13.00 - 14.00





CERTIFICATE OF ANALYSIS

SDG: 181219-89	Client Reference: 602387	Report Number: 489223
Location: City Block 9	Order Number: P2021550	Superseded Report:

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestost Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



APPENDIX D

Groundwater and Surface Water Laboratory Certificates of Analysis



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528700

Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

RSK (Ireland) Ltd
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: Brian Cronin

CERTIFICATE OF ANALYSIS

Date of report Generation:	03 June 2019
Customer:	RSK (Ireland) Ltd
Sample Delivery Group (SDG):	190525-93
Your Reference:	602387
Location:	Waterfront
Report No:	508671

We received 3 samples on Saturday May 25, 2019 and 3 of these samples were scheduled for analysis which was completed on Monday June 03, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 190525-93
Location: Waterfront

Client Reference: 602387
Order Number: 602387

Report Number: 508671
Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
20031088	LIFLEY A.D.J			24/05/2019
20031089	LIFLEY D.S			24/05/2019
20031087	LIFLEY U.S			24/05/2019

Maximum Sample/Coolbox Temperature (°C) :

17.4

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 190525-93
Location: Waterfront

Client Reference: 602387
Order Number: 602387

Report Number: 508671
Superseded Report:

Results Legend		Customer Sample Ref.	LIFLEY A.D.J	LIFLEY D.S	LIFLEY U.S		
#	ISO17025 accredited.						
M	mCERTS accredited.						
sq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted - refer to subcontractor report for accreditation status.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						
(F)	Trigger breach confirmed						
1-3*5@	Sample deviation (see appendix)						
Component	LOD/Units	Method					
Dissolved solids, Total (gravimetric)	<10 mg/l	TM021	27300 #	29600 #	27900 #		
Suspended solids, Total	<2 mg/l	TM022	28 #	51.6 #	24.3 #		
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	<0.2 #	<0.2 #	<0.2 #		
Sulphide	<0.01 mg/l	TM101	<0.01	<0.01	<0.01		
Fluoride	<0.5 mg/l	TM104	0.753	0.762	0.727		
Arsenic (diss.filt)	<0.5 µg/l	TM152	<3 #	<3 #	<3 #		
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.48 #	<0.48 #	<0.48 #		
Chromium (diss.filt)	<1 µg/l	TM152	<6 #	<6 #	<6 #		
Copper (diss.filt)	<0.3 µg/l	TM152	<1.8 #	<1.8 #	<1.8 #		
Lead (diss.filt)	<0.2 µg/l	TM152	<1.2 #	<1.2 #	<1.2 #		
Nickel (diss.filt)	<0.4 µg/l	TM152	<2.4 #	<2.4 #	<2.4 #		
Selenium (diss.filt)	<1 µg/l	TM152	<6 #	<6 #	<6 #		
Zinc (diss.filt)	<1 µg/l	TM152	<6 #	8.08 #	<6 #		
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01	<0.01		
Sulphate	<2 mg/l	TM184	1890 #	1990 #	1900 #		
Chloride	<2 mg/l	TM184	14200 #	14500 #	13800 #		
PCB congener 28	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 52	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 101	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 118	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 138	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 153	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 180	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105	<0.105	<0.105		
PCB congener 77	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 81	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 105	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 114	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 123	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 126	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 156	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 157	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		
PCB congener 167	<0.015 µg/l	TM197	<0.015	<0.015	<0.015		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190525-93
Location: Waterfront

Client Reference: 602387
Order Number: 602387

Report Number: 508671
Superseded Report:

PAH Spec MS - Aqueous (W)

Results Legend			Customer Sample Ref.	LIFLEY A.D.J	LIFLEY D.S	LIFLEY U.S		
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
dis.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-3*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method	Depth (m)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)		
Naphthalene (aq)	<0.01 µg/l	TM178		0.0132	0.0139	<0.01	#	#
Acenaphthene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Acenaphthylene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Fluoranthene (aq)	<0.005 µg/l	TM178		<0.005	0.00548	<0.005	#	#
Anthracene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Phenanthrene (aq)	<0.005 µg/l	TM178		0.00551	0.00566	<0.005	#	#
Fluorene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Chrysene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Pyrene (aq)	<0.005 µg/l	TM178		0.00539	0.00599	<0.005	#	#
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178		<0.002	0.00247	<0.002	#	#
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178		<0.005	<0.005	<0.005	#	#
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178		<0.082	<0.082	<0.082	#	#



CERTIFICATE OF ANALYSIS

Validated

SDG: 190525-93
Location: Waterfront

Client Reference: 602387
Order Number: 602387

Report Number: 508671
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample Ref.	LIFLEY A.D.J	LIFLEY D.S	LIFLEY U.S		
# ISO17025 accredited. M mCERTIS accredited. aq Aqueous / settled sample. dis.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1-3*§@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Surface Water (SW) 24/05/2019 190525-93 20031088	Surface Water (SW) 24/05/2019 190525-93 20031089	Surface Water (SW) 24/05/2019 190525-93 20031087		
Component	LOD/Units	Method					
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
Acenaphthylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
Acenaphthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
Anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #		
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190525-93
Location: Waterfront

Client Reference: 602387
Order Number: 602387

Report Number: 508671
Superseded Report:

TPH CWG (W)

Results Legend		Customer Sample Ref.	LIFLEY A.D.J	LIFLEY D.S	LIFLEY U.S		
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. dis.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*§@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Surface Water (SW) 24/05/2019 190525-93 20031088	Surface Water (SW) 24/05/2019 190525-93 20031089	Surface Water (SW) 24/05/2019 190525-93 20031087		
Component	LOD/Units	Method					
GRO Surrogate % recovery**	%	TM245	119	117	130		
GRO >C5-C12	<50 µg/l	TM245	<50 #	<50 #	<50 #		
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3 #	<3 #	<3 #		
Benzene	<7 µg/l	TM245	<7 #	<7 #	<7 #		
Toluene	<4 µg/l	TM245	<4 #	<4 #	<4 #		
Ethylbenzene	<5 µg/l	TM245	<5 #	<5 #	<5 #		
m,p-Xylene	<8 µg/l	TM245	<8 #	<8 #	<8 #		
o-Xylene	<3 µg/l	TM245	<3 #	<3 #	<3 #		
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11		
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28		
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10		
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10		
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10		
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10		
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10		
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10	<10		
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10	<10		
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	<10	<10		
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10		
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10		
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10		
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10		
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10		
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10		
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10		
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10	<10	<10		
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<10	<10	<10		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190525-93
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Client Reference: 602387
Order Number: 602387

Report Number: 508671
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.	LIFLEY A.D.J	LIFLEY D.S	LIFLEY U.S				
#	ISO17025 accredited.									
M	mCERTS accredited.									
sq	Aqueous / settled sample.									
dis.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted - refer to subcontractor report for accreditation status.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-3*§@	Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
Dibromofluoromethane**	%	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Toluene-d8**	%	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
4-Bromofluorobenzene**	%	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Dichlorodifluoromethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Chloromethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Vinyl chloride	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Bromomethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Chloroethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Trichlorofluoromethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
1,1-Dichloroethene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Carbon disulphide	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Dichloromethane	<3 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
trans-1,2-Dichloroethene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
1,1-Dichloroethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
cis-1,2-Dichloroethene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
2,2-Dichloropropane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Bromochloromethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Chloroform	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
1,1,1-Trichloroethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
1,1-Dichloropropene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Carbontetrachloride	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
1,2-Dichloroethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Benzene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Trichloroethene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
1,2-Dichloropropane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Dibromomethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Bromodichloromethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
cis-1,3-Dichloropropene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
Toluene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
trans-1,3-Dichloropropene	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
1,1,2-Trichloroethane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	
1,3-Dichloropropane	<1 µg/l	TM208		Surface Water (SW)	24/05/2019		24/05/2019	190525-93	20031088	
				Surface Water (SW)			25/05/2019	190525-93	20031088	
				Surface Water (SW)			24/05/2019	190525-93	20031087	



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Validated

SDG: 190525-93
Location: Waterfront

Client Reference: 602387
Order Number: 602387

Report Number: 508671
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	LIFLEY A.D.J	LIFLEY D.S	LIFLEY U.S		
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*5@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
Component	LOD/Units	Method					
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2,3-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		



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Table of Results - Appendix

Method No	Reference	Description
TM021	Method 2540C, AWWA/APHA, 20th Ed., 1999	Determination of total dissolved solids in waters by gravimetry.
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM101	Method 4500B & C, AWWA/APHA, 20th Ed., 1999	Determination of Sulphide in soil and water samples using the Kone Analyser
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM197	Modified: US EPA Method 8082.EA Method 174 and 5109631	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Waters
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM241	Methods for the Examination of Waters and Associated Materials; Chromium in Raw and Potable Waters and Sewage Effluents 1980.	The Determination of Hexavalent Chromium in Waters and Leachates using the Kone Analyser
TM245	By GC-FID	Determination of GRO by Headspace in waters
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



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Test Completion Dates

Lab Sample No(s)	20031088	20031089	20031087
Customer Sample Ref.	LIFLEY A.D.J	LIFLEY D.S	LIFLEY U.S
AGS Ref.			
Depth			
Type	Surface Water	Surface Water	Surface Water

Ammoniacal Nitrogen	28-May-2019	29-May-2019	28-May-2019
Anions by Kone (w)	29-May-2019	29-May-2019	29-May-2019
Cyanide Comp/Free/Total/Thiocyanate	29-May-2019	29-May-2019	30-May-2019
Dissolved Metals by ICP-MS	31-May-2019	31-May-2019	31-May-2019
EPH CWG (Aliphatic) Aqueous GC (W)	01-Jun-2019	01-Jun-2019	30-May-2019
EPH CWG (Aromatic) Aqueous GC (W)	01-Jun-2019	01-Jun-2019	30-May-2019
Fluoride	29-May-2019	29-May-2019	29-May-2019
GRO by GC-FID (W)	01-Jun-2019	01-Jun-2019	01-Jun-2019
Hexavalent Chromium (w)	30-May-2019	30-May-2019	30-May-2019
Mercury Dissolved	03-Jun-2019	03-Jun-2019	03-Jun-2019
PAH Spec MS - Aqueous (W)	31-May-2019	31-May-2019	03-Jun-2019
PCB Congeners - Aqueous (W)	03-Jun-2019	03-Jun-2019	31-May-2019
Phenols by HPLC (W)	30-May-2019	30-May-2019	30-May-2019
Sulphide	03-Jun-2019	03-Jun-2019	03-Jun-2019
Suspended Solids	29-May-2019	29-May-2019	29-May-2019
SVOC MS (W) - Aqueous	03-Jun-2019	31-May-2019	31-May-2019
Total Dissolved Solids (Grav)	29-May-2019	29-May-2019	29-May-2019
TPH CWG (W)	01-Jun-2019	01-Jun-2019	01-Jun-2019
VOC MS (W)	30-May-2019	30-May-2019	30-May-2019



CERTIFICATE OF ANALYSIS

SDG: 190525-93	Client Reference: 602387	Report Number: 508671
Location: Waterfront	Order Number: 602387	Superseded Report:

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestost Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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Deeside
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Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: Paul Feely

CERTIFICATE OF ANALYSIS

Date of report Generation: 08 March 2019
Customer: D_RSK_DUB
Sample Delivery Group (SDG): 190227-68
Your Reference:
Location: Not Specified
Report No: 495891

We received 6 samples on Wednesday February 27, 2019 and 6 of these samples were scheduled for analysis which was completed on Friday March 08, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68	Client Reference:	Report Number: 495891
Location: Not Specified	Order Number: P2021550	Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19444833	BH105			25/02/2019
19444834	BH107			25/02/2019
19444835	BH206			26/02/2019
19444836	BH243			25/02/2019
19444837	BH244			25/02/2019
19444838	WS104			25/02/2019

Maximum Sample/Coolbox Temperature (°C) : 8.2

ISO5667-3 Water quality - Sampling - Part3 -
During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68 **Client Reference:** **Report Number:** 495891
Location: Not Specified **Order Number:** P2021550 **Superseded Report:**

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">X Test</div> <div style="display: flex; align-items: center;">N No Determination Possible</div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	
							0.5l glass bottle (ALE227)
							500ml Plastic (ALE208)
							500ml Plastic (ALE244)
							H2SO4 (ALE204)
							HNO3 Filtered (ALE245)
							NaOH (ALE245)
						Vial (ALE297)	
						ZnAc (ALE246)	
						0.5l glass bottle (ALE227)	
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CERTIFICATE OF ANALYSIS

Validated

SDG:	190227-68	Client Reference:	495891
Location:	Not Specified	Order Number:	P2021550
		Report Number:	
		Superseded Report:	

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> Test</div> <div style="display: flex; align-items: center;"> No Determination Possible</div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	
		19444833	BH105			Vial (ALE297)	GW
		19444834	BH107			NaOH (ALE245)	GW
		19444835	BH206			HNO3 Filtered (ALE204)	GW
						H2SO4 (ALE244)	GW
						500ml Plastic (ALE208)	GW
						0.5l glass bottle (ALE227)	GW
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					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)		

19444838	WS104			NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW						
				500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW	X					
				ZnAc (ALE246)	GW						
				Vial (ALE297)	GW					X	
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW						
19444837	BH244			500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW	X					
				ZnAc (ALE246)	GW						
				Vial (ALE297)	GW						
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW						
				500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW						
				ZnAc (ALE246)	GW						
19444836	BH243			Vial (ALE297)	GW						
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW						
				500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW	X					
				ZnAc (ALE246)	GW						
				Vial (ALE297)	GW						
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
19444835	BH206			ZnAc (ALE246)	GW						
				0.5l glass bottle (ALE227)	GW						
				500ml Plastic (ALE208)	GW						
				H2SO4 (ALE244)	GW						
				HNO3 Filtered (ALE204)	GW						
				NaOH (ALE245)	GW						
				Vial (ALE297)	GW						
				ZnAc (ALE246)	GW						
				0.5l glass bottle (ALE227)	GW						
				500ml Plastic (ALE208)	GW						



CERTIFICATE OF ANALYSIS

Validated

SDG:	190227-68	Client Reference:	495891
Location:	Not Specified	Order Number:	P2021550
		Report Number:	
		Superseded Report:	

Results Legend <div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></div> Test </div> <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="width: 15px; height: 15px; background-color: red; color: white; border: 1px solid black; margin-right: 5px; display: flex; align-items: center; justify-content: center;">N</div> No Determination Possible </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	19444838	
	Customer Sample Reference	WVS104	
	AGS Reference		
	Depth (m)		
	Container	Vial (ALE297)	ZnAc (ALE246)
	Sample Type	GW	GW
	GRO by GC-FID (W)	All	NDPs: 0 Tests: 6	X
Sulphide	All	NDPs: 0 Tests: 6	X
VOC MS (W)	All	NDPs: 0 Tests: 6	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Results Legend			Customer Sample Ref.	BH105	BH107	BH206	BH243	BH244	WS104
# ISO17025 accredited. M mCERIS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1.3*5@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444833	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444834	Ground Water (GW) 26/02/2019 27/02/2019 190227-68 19444835	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444836	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444837	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444838
Component	LOD/Units	Method							
Suspended solids, Total	<2 mg/l	TM022	12.4 #	17.2 #	54.5 #	36.4 #	30.2 #	511 #	
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	2.7 #	0.604 #	3.06 #	4.03 #	2.86 #	4.56 #	
Sulphide	<0.01 mg/l	TM101	<0.01 #	<0.01 #	<0.01 #	<0.01 #	2.99 #	<0.01 #	
Fluoride	<0.5 mg/l	TM104	0.759 #	0.761 #	0.725 #	<0.5 #	0.629 #	0.819 #	
Dissolved solids, Total (meter)	<5 mg/l	TM123	3410 #	6720 #	1820 #	926 #	751 #	553 #	
Arsenic (diss.filt)	<0.5 µg/l	TM152	15.5 #	5.49 #	23 #	13.4 #	19.9 #	25.7 #	
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	0.125 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	
Chromium (diss.filt)	<1 µg/l	TM152	<1 #	1.9 #	6.01 #	<1 #	<1 #	<1 #	
Copper (diss.filt)	<0.3 µg/l	TM152	<0.3 #	1.11 #	0.361 #	<0.3 #	<0.3 #	0.311 #	
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	
Nickel (diss.filt)	<0.4 µg/l	TM152	1.06 #	6.48 #	1.43 #	1.7 #	0.882 #	5.65 #	
Selenium (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Zinc (diss.filt)	<1 µg/l	TM152	2.47 #	8.83 #	7.25 #	4.88 #	2 #	5.02 #	
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	
Sulphate	<2 mg/l	TM184	273 #	457 #	163 #	322 #	87.9 #	11.8 #	
Chloride	<2 mg/l	TM184	1360 #	2790 #	594 #	77.2 #	38.9 #	21.9 #	
PCB congener 28	<0.015 µg/l	TM197	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	
PCB congener 52	<0.015 µg/l	TM197	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	
PCB congener 101	<0.015 µg/l	TM197	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	
PCB congener 118	<0.015 µg/l	TM197	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	
PCB congener 138	<0.015 µg/l	TM197	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	
PCB congener 153	<0.015 µg/l	TM197	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	
PCB congener 180	<0.015 µg/l	TM197	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105 #	<0.105 #	<0.105 #	<0.105 #	<0.105 #	<0.105 #	
Cyanide, Total	<0.05 mg/l	TM227	<0.05 #	<0.05 #	<0.05 #	<0.05 #	<0.05 #	<0.05 #	
Chromium, Hexavalent	<0.03 mg/l	TM241	<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03 #	
Phenol	<0.002 mg/l	TM259	0.03 #	<0.002 #	<0.002 #	<0.002 #	0.02 #	0.07 #	
Cresols	<0.006 mg/l	TM259	0.13 #	<0.006 #	<0.006 #	<0.006 #	0.03 #	0.16 #	
Xylenols	<0.008 mg/l	TM259	0.69 #	<0.008 #	<0.008 #	<0.008 #	0.04 #	1.85 #	
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003 #	<0.003 #	<0.003 #	<0.003 #	<0.003 #	<0.003 #	
2-Isopropylphenol	<0.006 mg/l	TM259	1.15 #	<0.006 #	<0.006 #	<0.006 #	0.11 #	4.57 #	
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	2 #	<0.025 #	<0.025 #	<0.025 #	0.2 #	6.65 #	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

PAH Spec MS - Aqueous (W)

Results Legend			Customer Sample Ref.	BH105	BH107	BH206	BH243	BH244	WS104
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
**	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1.3*5@	Sample deviation (see appendix)								
		Depth (m)							
		Sample Type							
		Date Sampled							
		Sampled Time							
		Date Received							
		SDG Ref							
		Lab Sample No.(s)							
		AGS Reference							
Component	LOD/Units	Method							
Naphthalene (aq)	<0.01 µg/l	TM178	0.035	0.144	0.426	0.0444	0.249	40	
Acenaphthene (aq)	<0.005 µg/l	TM178	30	0.0186	0.283	0.419	179	55.2	
Acenaphthylene (aq)	<0.005 µg/l	TM178	1.01	<0.005	0.0187	0.0319	4.02	2.72	
Fluoranthene (aq)	<0.005 µg/l	TM178	1.8	0.0272	0.143	0.201	19.7	26	
Anthracene (aq)	<0.005 µg/l	TM178	0.841	0.00744	0.0297	0.0356	2.06	9.36	
Phenanthrene (aq)	<0.005 µg/l	TM178	1.26	0.0245	0.113	0.104	6.09	29.6	
Fluorene (aq)	<0.005 µg/l	TM178	8.2	0.0135	0.12	0.149	61	22.5	
Chrysene (aq)	<0.005 µg/l	TM178	<0.005	<0.005	0.0346	0.086	0.834	2.63	
Pyrene (aq)	<0.005 µg/l	TM178	1.05	0.044	0.106	0.169	11.7	17.9	
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	0.147	<0.005	0.0396	0.0731	1	3.41	
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	0.12	<0.005	0.0404	0.0939	0.447	3.44	
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	<0.005	<0.005	0.0177	0.0478	0.255	1.86	
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	0.0619	<0.002	0.0262	0.0642	0.301	2.52	
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	0.024	<0.005	<0.005	0.0192	0.214	0.745	
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	0.0273	<0.005	0.0065	0.0265	0.185	1.63	
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	0.0621	<0.005	<0.005	0.0278	0.184	1.38	
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	44.6	0.28	1.41	1.59	288	221	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH105	BH107	BH206	BH243	BH244	WS104
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444833	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444834	Ground Water (GW) 26/02/2019 27/02/2019 190227-68 19444835	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444836	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444837	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444838
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1.3*5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Acenaphthylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Acenaphthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #	<2 #	<2 #	<2 #	<20 #
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*5@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		BH105 Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444833	BH107 Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444834	BH206 Ground Water (GW) 26/02/2019 27/02/2019 190227-68 19444835	BH243 Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444836	BH244 Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444837	WS104 Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444838	
Component	LOD/Units	Method							
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Carbazole (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Chrysene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Dibenzofuran (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Diethyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #	<50 #
Fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	4.15 #	10.5 #	<10 #
Fluorene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Pentachlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Phenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Hexachloroethane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Nitrobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Naphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Isophorone (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Phenanthrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<10 #
Pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	3.04 #	<10 #	<10 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

TPH CWG (W)

Results Legend			Customer Sample Ref.	BH105	BH107	BH206	BH243	BH244	WS104
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1.3*5@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444833	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444834	Ground Water (GW) 26/02/2019 27/02/2019 190227-68 19444835	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444836	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444837	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444838
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM245	91	94	90	93	89	90	
GRO >C5-C12	<50 µg/l	TM245	317	<50 #	<50 #	<50 #	516 #	1590 #	
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	
Benzene	<7 µg/l	TM245	<7	<7	<7	<7	<7	55	
Toluene	<4 µg/l	TM245	6	<4	<4	<4	<4	31	
Ethylbenzene	<5 µg/l	TM245	7	<5	<5	<5	6	26	
m,p-Xylene	<8 µg/l	TM245	17	<8	<8	<8	11	45	
o-Xylene	<3 µg/l	TM245	11	<3	<3	<3	7	38	
Sum of detected Xylenes	<11 µg/l	TM245	28	<11	<11	<11	18	83	
Sum of detected BTEX	<28 µg/l	TM245	41	<28	<28	<28	<28	195	
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	23	
Aliphatics >C8-C10	<10 µg/l	TM245	35	<10	<10	<10	37	105	
Aliphatics >C10-C12	<10 µg/l	TM245	120	<10	<10	<10	245	717	
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	29	67	
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	31	124	
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	11	119	
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	71	310	
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10	<10	55	
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10	<10	31	
Aromatics >EC8-EC10	<10 µg/l	TM245	59	<10	<10	<10	47	179	
Aromatics >EC10-EC12	<10 µg/l	TM245	80	<10	<10	<10	163	478	
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	205	<10	<10	<10	699	1310	
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	54	<10	<10	<10	238	417	
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	46	155	
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	259	<10	<10	<10	983	1880	
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	575	<10	<10	<10	1570	3790	
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<10	<10	<10	<10	42	243	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.	BH105	BH107	BH206	BH243	BH244	WS104
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444833	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444834	Ground Water (GW) 26/02/2019 27/02/2019 190227-68 19444835	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444836	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444837	Ground Water (GW) 25/02/2019 27/02/2019 190227-68 19444838
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1.3x5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208	109	107	107	109	109	108	
Toluene-d8**	%	TM208	94.6	97.5	97.6	97	97	96.1	
4-Bromofluorobenzene**	%	TM208	94.5	93.7	93	92.3	95.8	94.4	
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	
Chloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Vinyl chloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	1.23 #	5.24 #	<1 #	
Bromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Trichlorofluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Carbon disulphide	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dichloromethane	<3 µg/l	TM208	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	1.72 #	7.77 #	<1 #	
2,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloroform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Carbontetrachloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Benzene	<1 µg/l	TM208	2.66 #	<1 #	<1 #	<1 #	4.72 #	69 #	
Trichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dibromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromodichloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Toluene	<1 µg/l	TM208	6.83 #	<1 #	<1 #	<1 #	4.57 #	39.1 #	
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*5@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH105	BH107	BH206	BH243	BH244	WS104		
		Ground Water (GW) 25/02/2019	Ground Water (GW) 25/02/2019	Ground Water (GW) 26/02/2019	Ground Water (GW) 25/02/2019	Ground Water (GW) 25/02/2019	Ground Water (GW) 25/02/2019		
		27/02/2019 190227-68 19444833	27/02/2019 190227-68 19444834	27/02/2019 190227-68 19444835	27/02/2019 190227-68 19444836	27/02/2019 190227-68 19444837	27/02/2019 190227-68 19444838		
Component	LOD/Units	Method							
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Ethylbenzene	<1 µg/l	TM208	7.32 #	<1 #	<1 #	<1 #	5.49 #	28.9 #	
m,p-Xylene	<1 µg/l	TM208	15.7 #	<1 #	<1 #	<1 #	11 #	51.7 #	
o-Xylene	<1 µg/l	TM208	9.27 #	<1 #	<1 #	<1 #	5.42 #	38.8 #	
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	1.62 #	
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	1.1 #	<1 #	
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,3,5-Trimethylbenzene	<1 µg/l	TM208	1.71 #	<1 #	<1 #	<1 #	2.91 #	3.96 #	
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,4-Trimethylbenzene	<1 µg/l	TM208	3.98 #	<1 #	<1 #	<1 #	6.44 #	10.5 #	
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	3.31 #	
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	2.85 #	<1 #	68 #	558 #	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68 Client Reference: Report Number: 495891
Location: Not Specified Order Number: P2021550 Superseded Report:

Table of Results - Appendix

Method No	Reference	Description
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM101	Method 4500B & C, AWWA/APHA, 20th Ed., 1999	Determination of Sulphide in soil and water samples using the Kone Analyser
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM197	Modified: US EPA Method 8082.EA Method 174 and 5109631	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Waters
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM241	Methods for the Examination of Waters and Associated Materials; Chromium in Raw and Potable Waters and Sewage Effluents 1980.	The Determination of Hexavalent Chromium in Waters and Leachates using the Kone Analyser
TM245	By GC-FID	Determination of GRO by Headspace in waters
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	19444833	19444834	19444835	19444836	19444837	19444838
	BH105	BH107	BH206	BH243	BH244	WS104
AGS Ref.						
Depth						
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019
Anions by Kone (w)	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019
Cyanide Comp/Free/Total/Thiocyanate	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
Dissolved Metals by ICP-MS	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019
EPH CWG (Aliphatic) Aqueous GC (W)	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019
EPH CWG (Aromatic) Aqueous GC (W)	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019
Fluoride	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019
GRO by GC-FID (W)	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019
Hexavalent Chromium (w)	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019
Mercury Dissolved	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	06-Mar-2019
PAH Spec MS - Aqueous (W)	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	06-Mar-2019
PCB Congeners - Aqueous (W)	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019	06-Mar-2019
Phenols by HPLC (W)	07-Mar-2019	08-Mar-2019	08-Mar-2019	07-Mar-2019	07-Mar-2019	08-Mar-2019
Sulphide	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	05-Mar-2019	04-Mar-2019
Suspended Solids	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
SVOC MS (W) - Aqueous	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019
Total Dissolved Solids	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019
TPH CWG (W)	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019
VOC MS (W)	03-Mar-2019	03-Mar-2019	03-Mar-2019	03-Mar-2019	03-Mar-2019	04-Mar-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

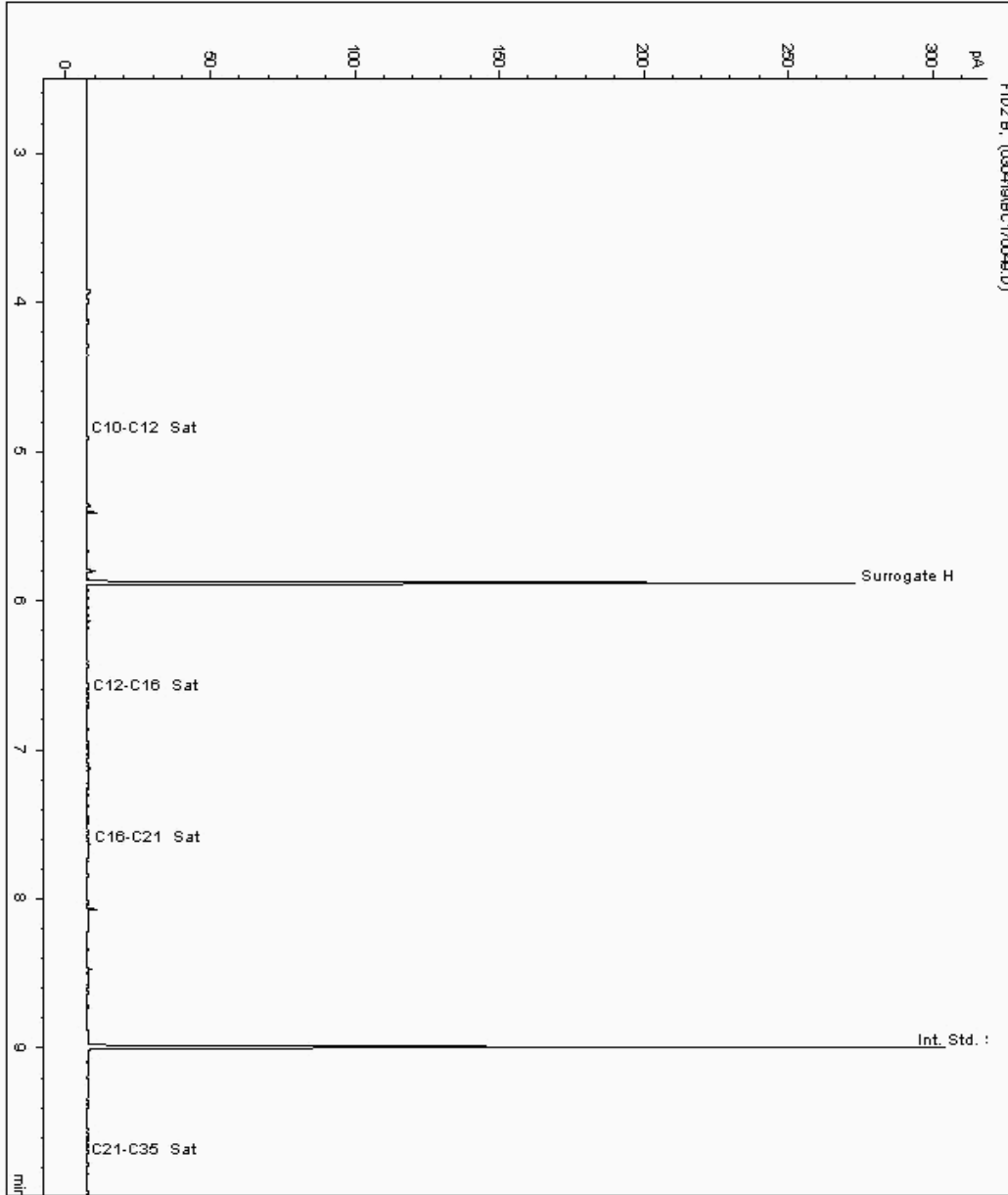
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19447155
Sample ID : BH206

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270831-
Date Acquired : 05/03/2019 08:05:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.032





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

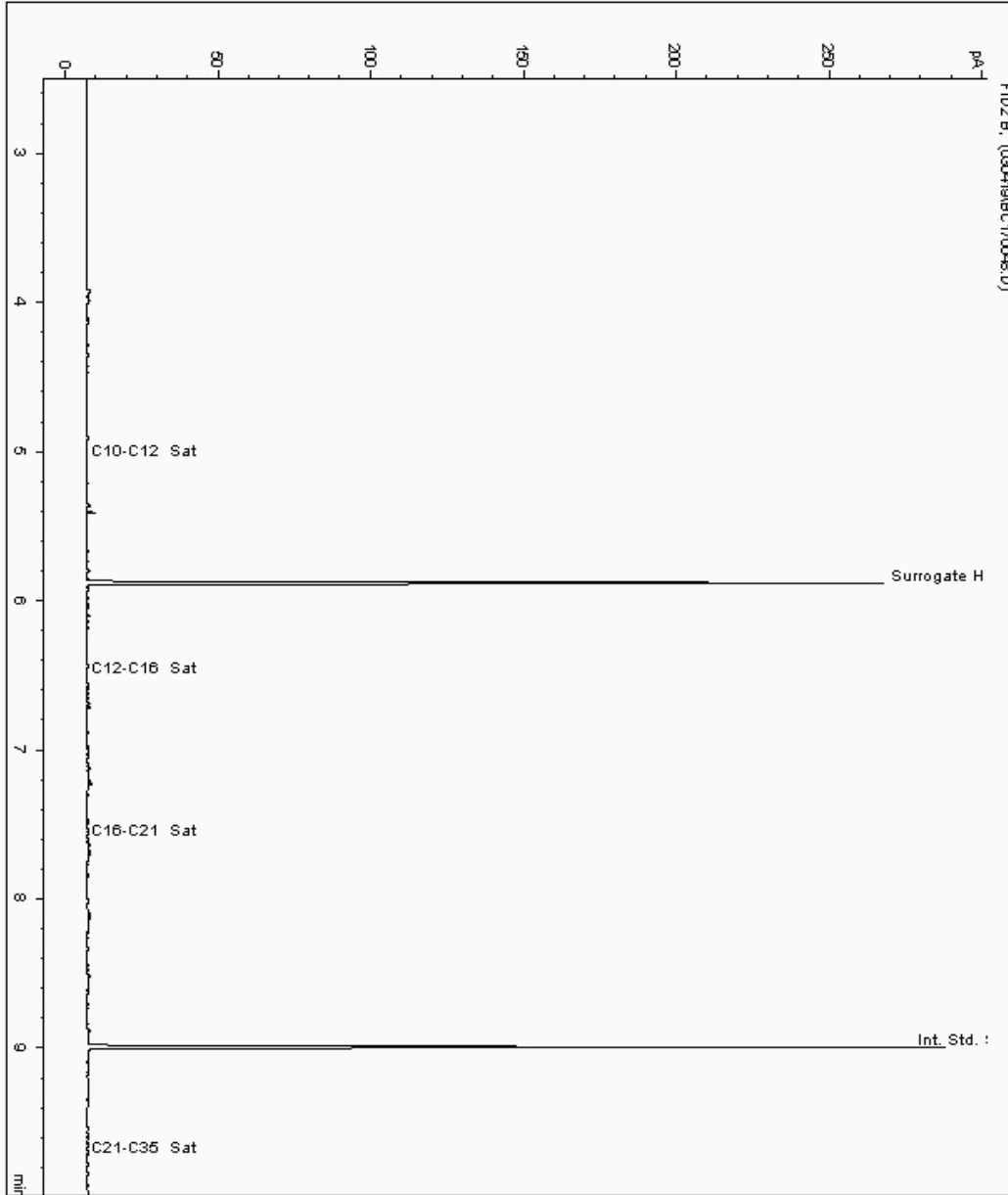
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19447157
Sample ID : BH107

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270811-
Date Acquired : 05/03/2019 07:43:53 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.033





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

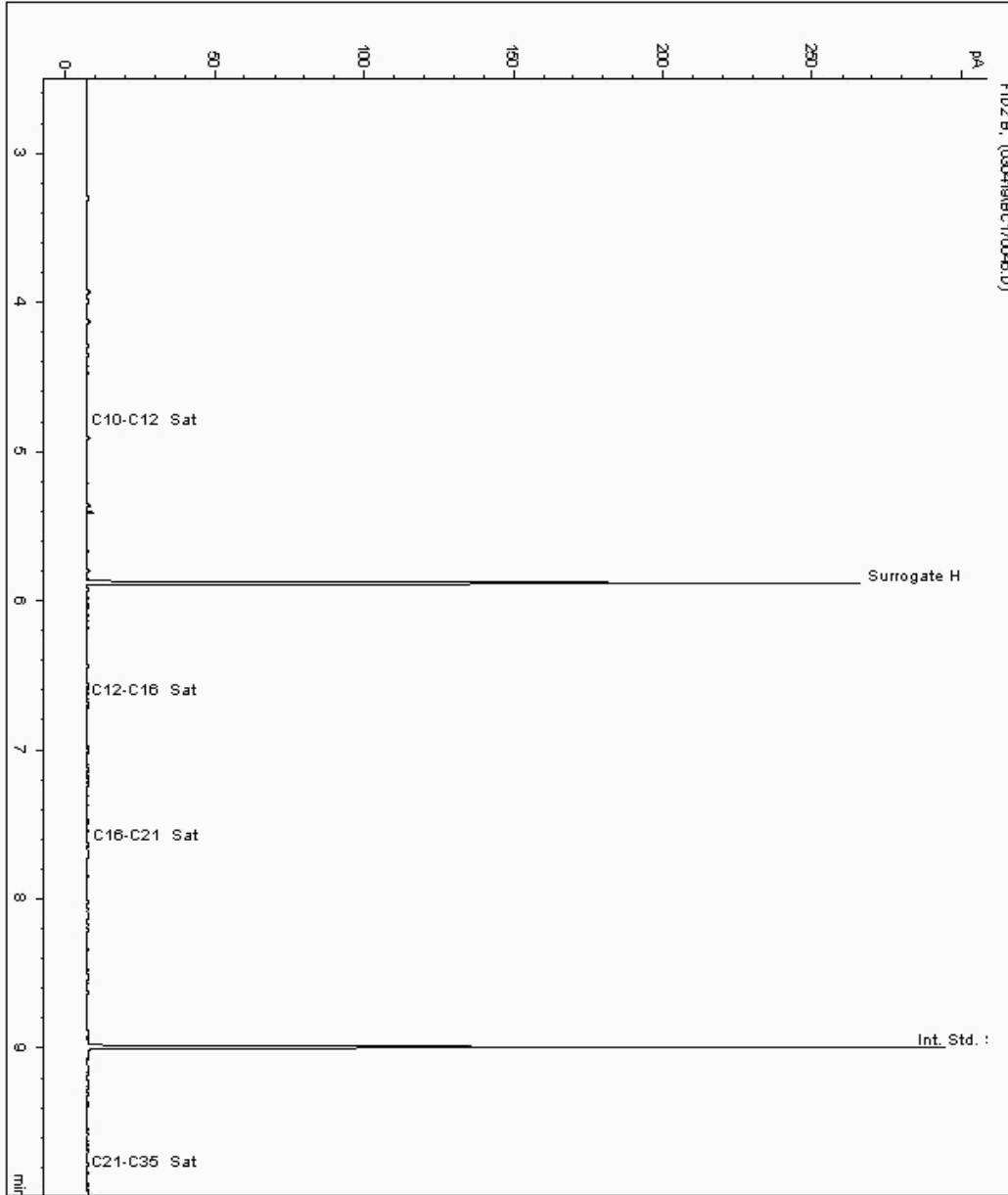
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19447166
Sample ID : BH243

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270851-
Date Acquired : 05/03/2019 07:01:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.033





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

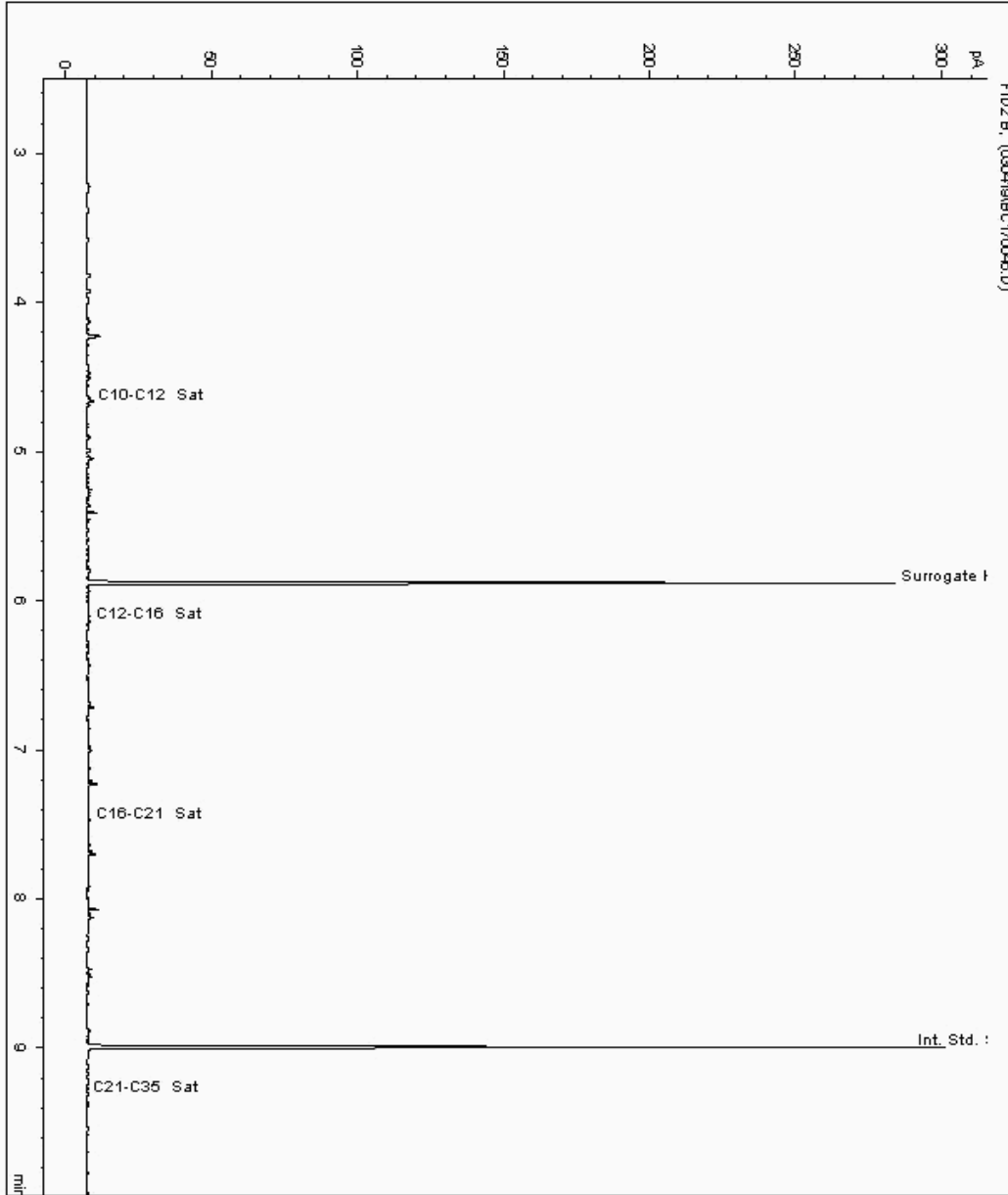
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19447191
Sample ID : BH244

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270889-
Date Acquired : 05/03/2019 06:38:26 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.032





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

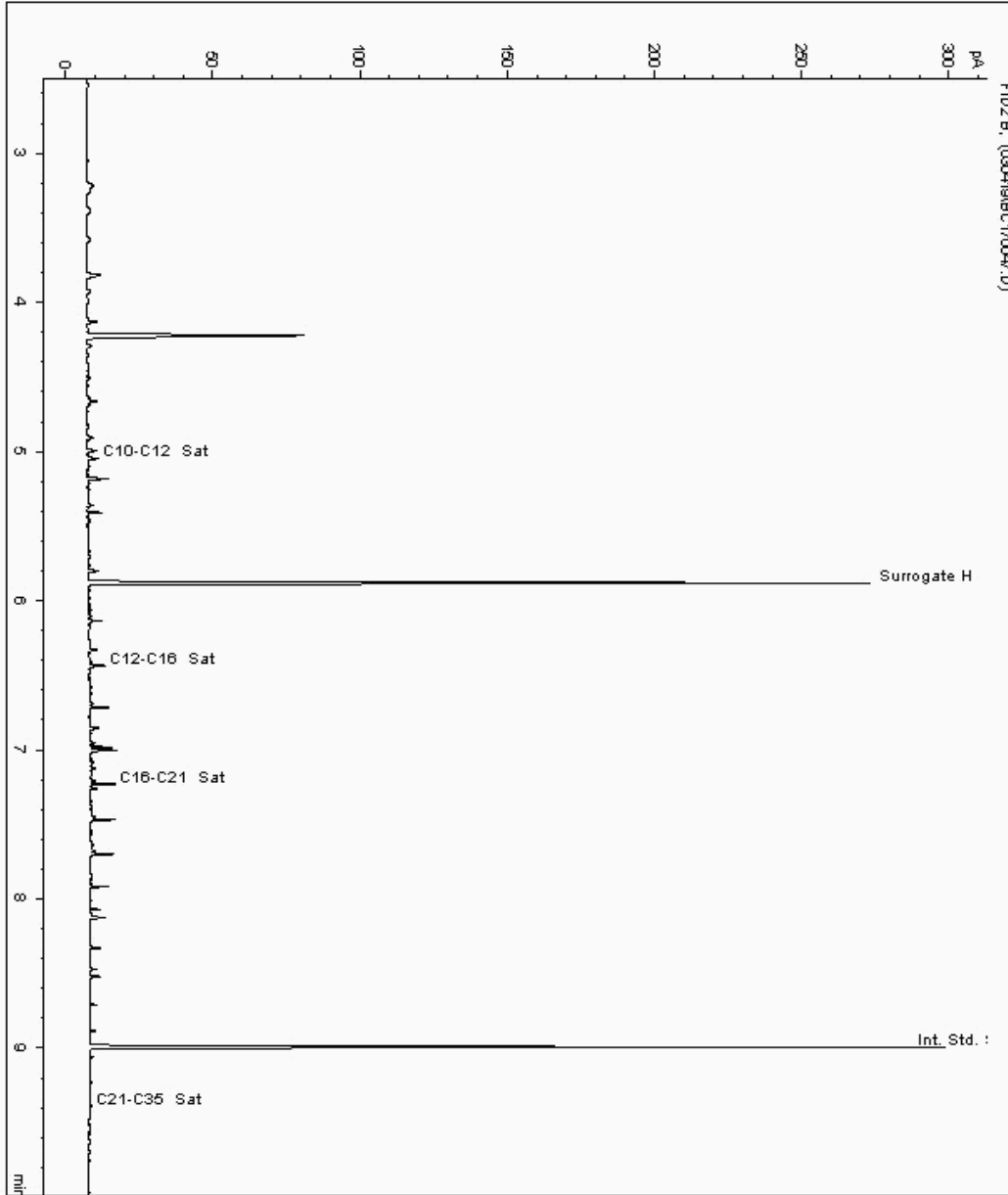
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19447196
Sample ID : WS104

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270925-
Date Acquired : 05/03/2019 07:22:41 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

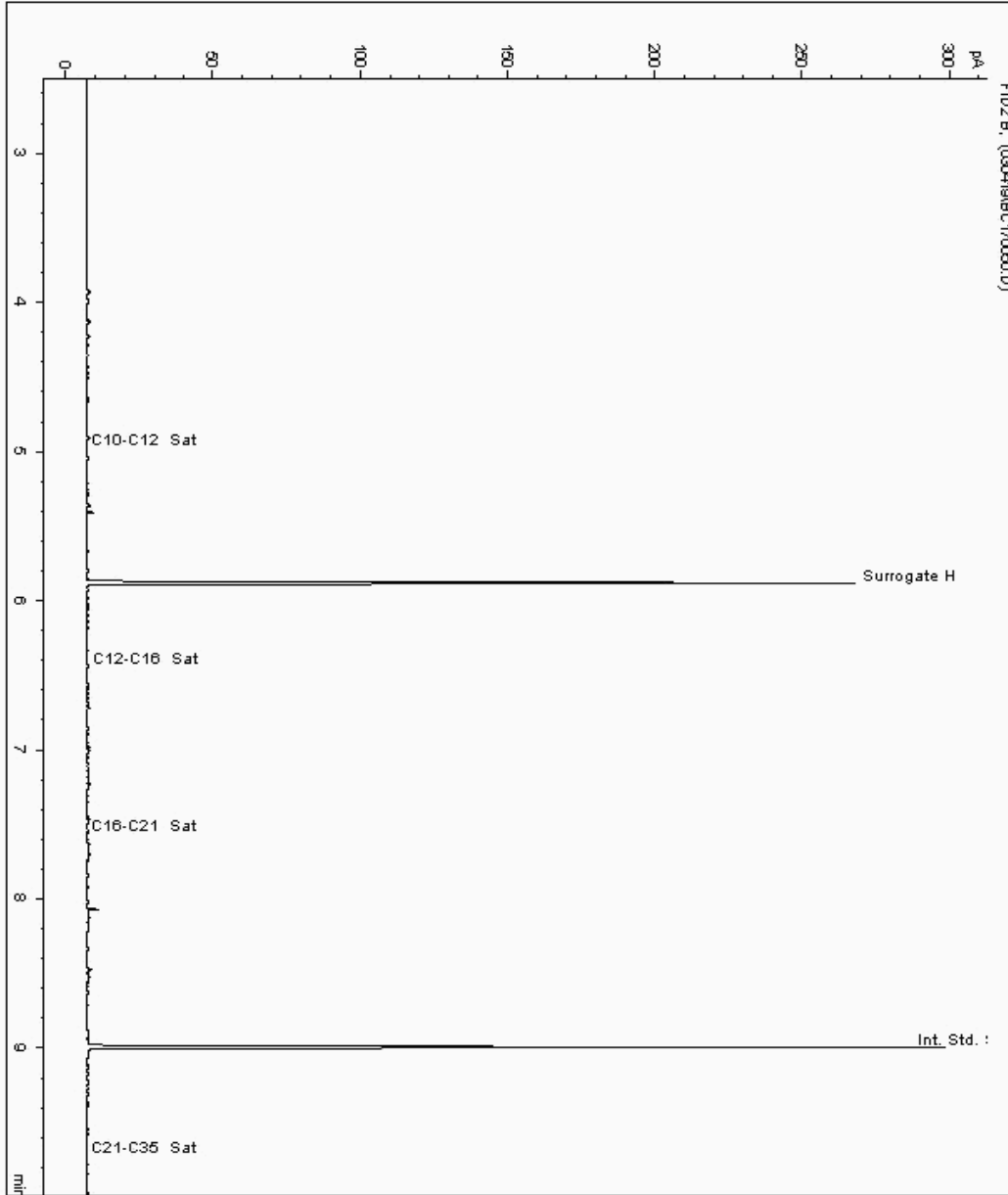
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19447256
Sample ID : BH105

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270788-
Date Acquired : 05/03/2019 08:29:53 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

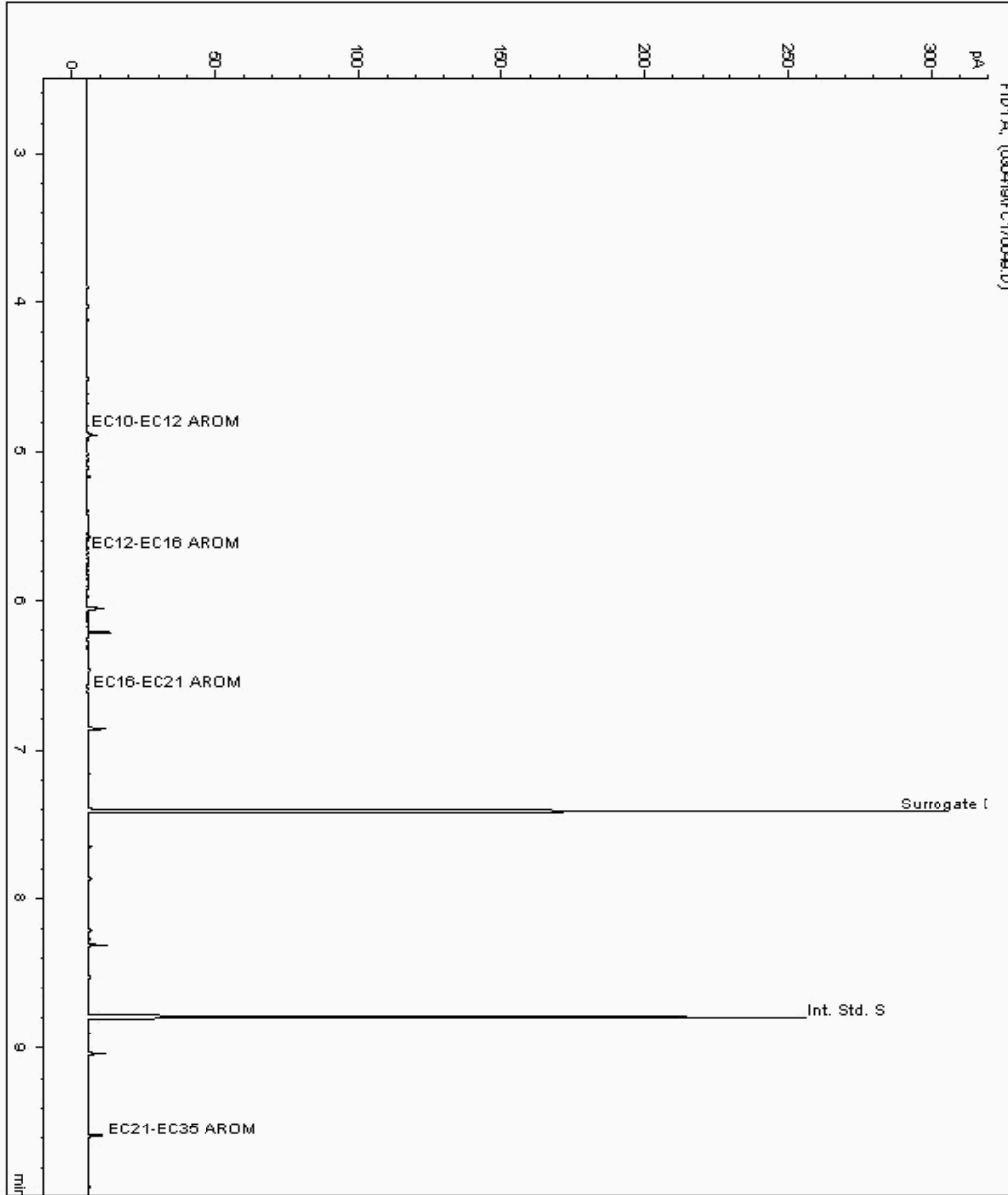
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19447155
Sample ID : BH206

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270832-
Date Acquired : 05/03/2019 08:05:16 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.032





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

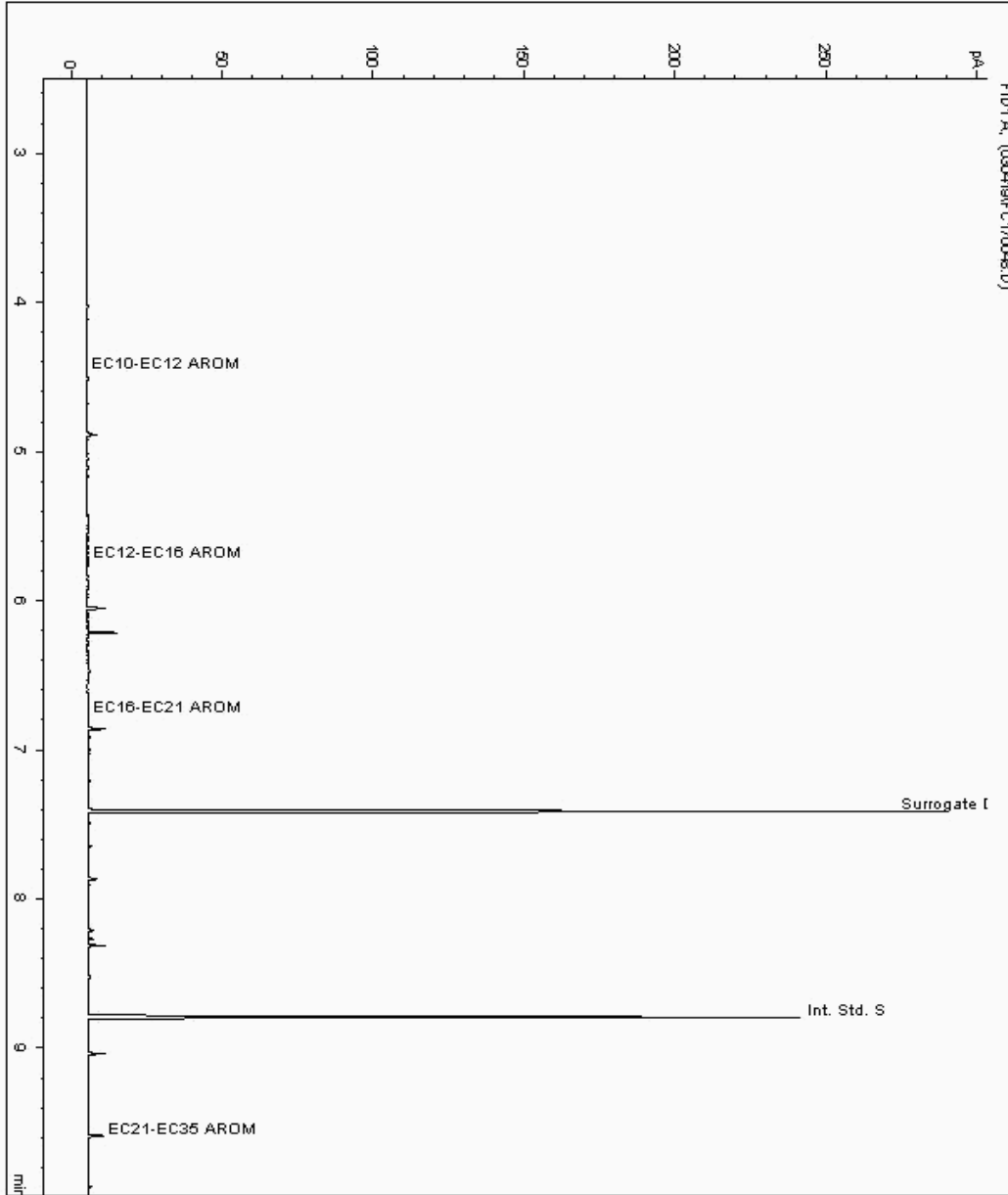
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19447157
Sample ID : BH107

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270812-
Date Acquired : 05/03/2019 07:43:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.033





CERTIFICATE OF ANALYSIS

Validated

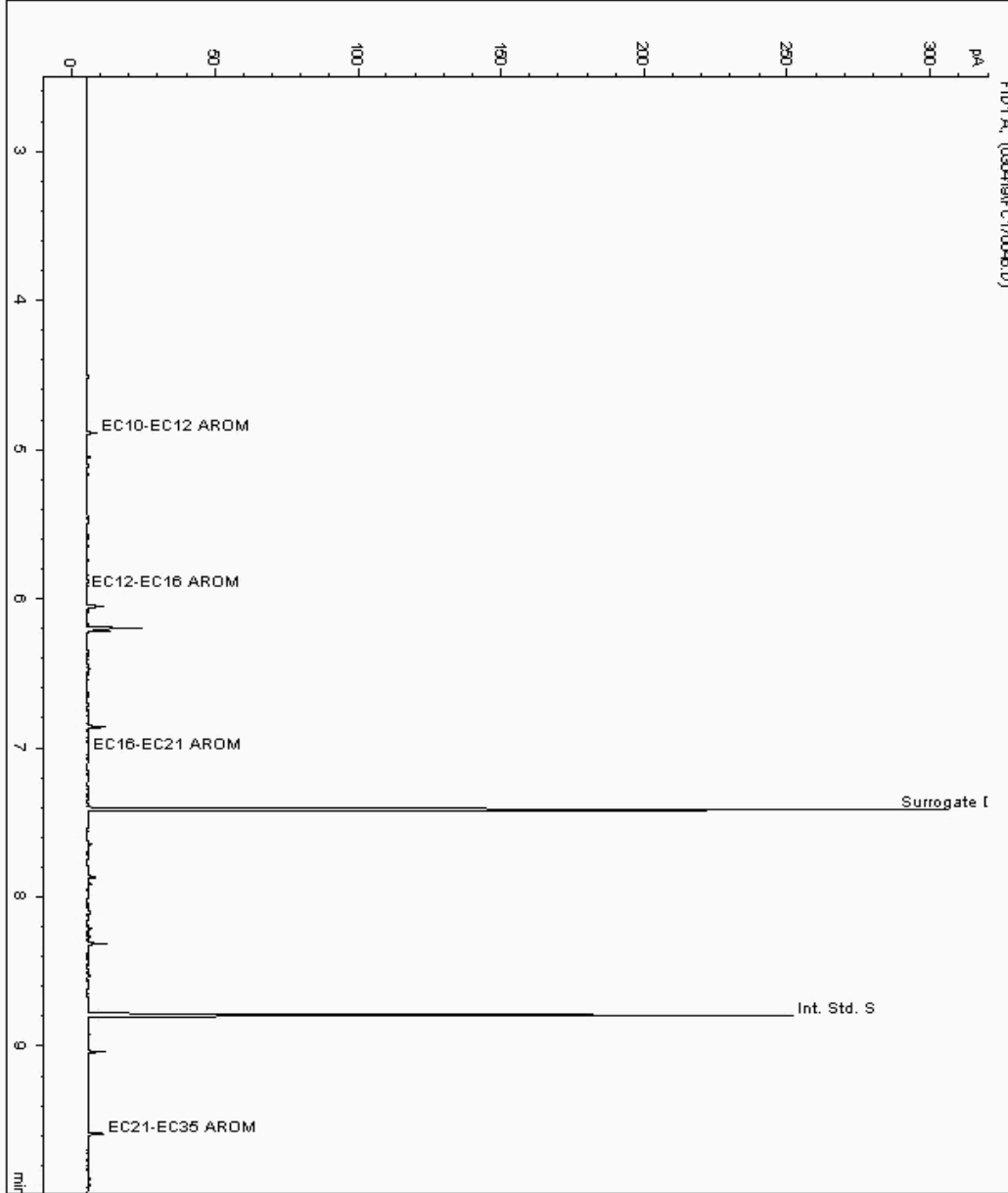
SDG: 190227-68 Client Reference: Report Number: 495891
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 19447166 Depth :
Sample ID : BH243

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270852-
Date Acquired : 05/03/2019 07:01:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.033





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

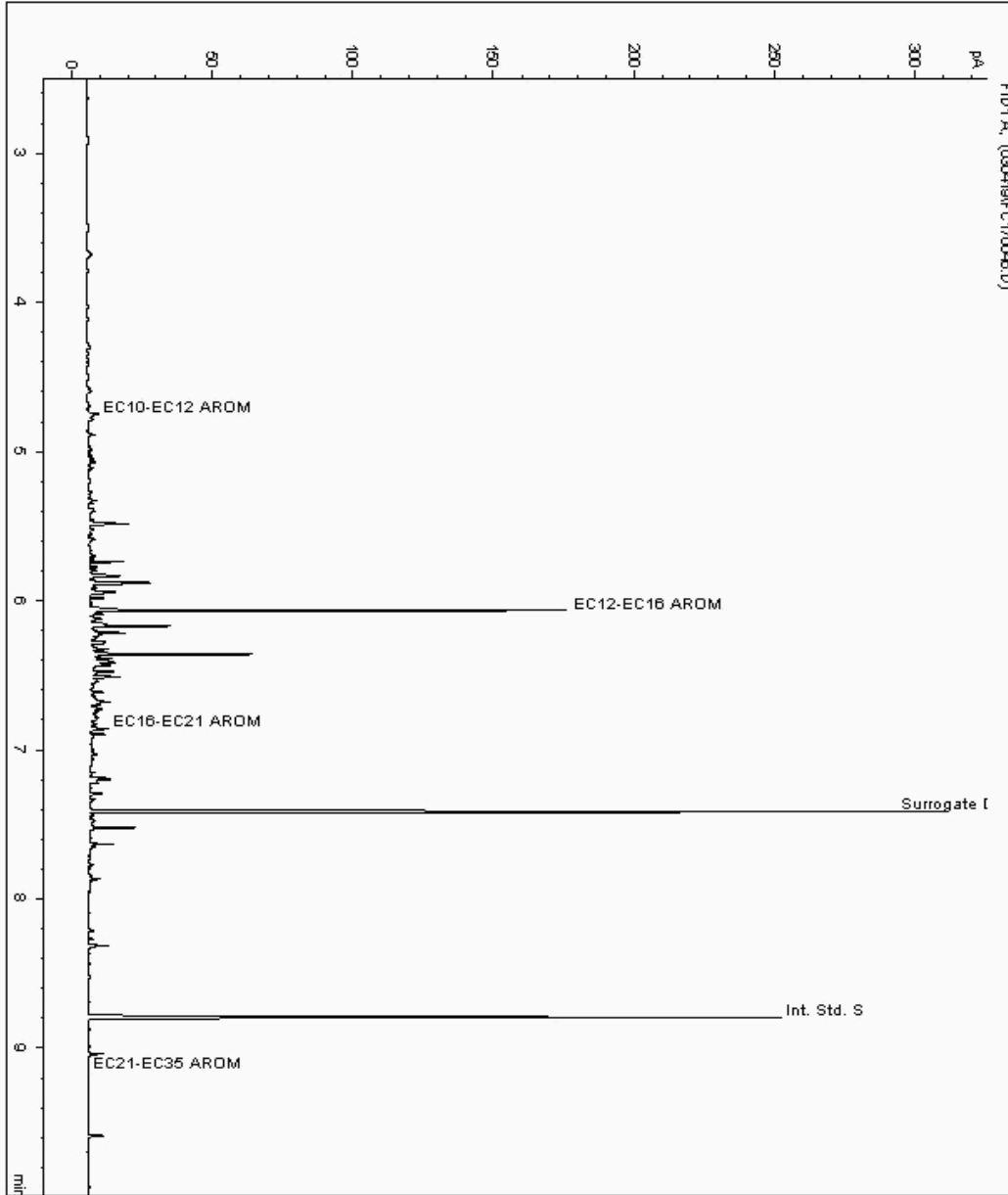
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19447191
Sample ID : BH244

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270890-
Date Acquired : 05/03/2019 06:38:26 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.032





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

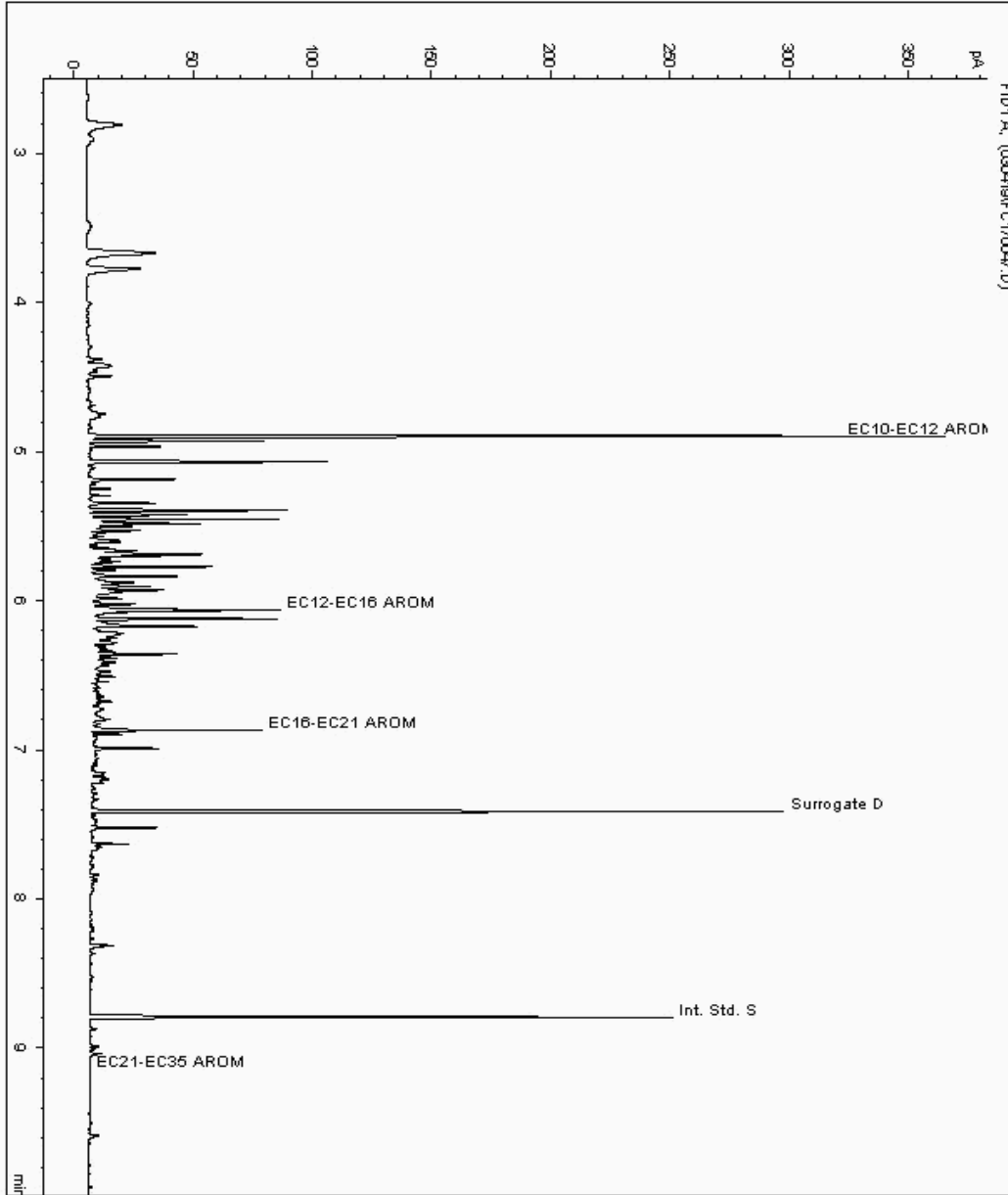
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19447196
Sample ID : WS104

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270926-
Date Acquired : 05/03/2019 07:22:40 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495891
Superseded Report:

Chromatogram

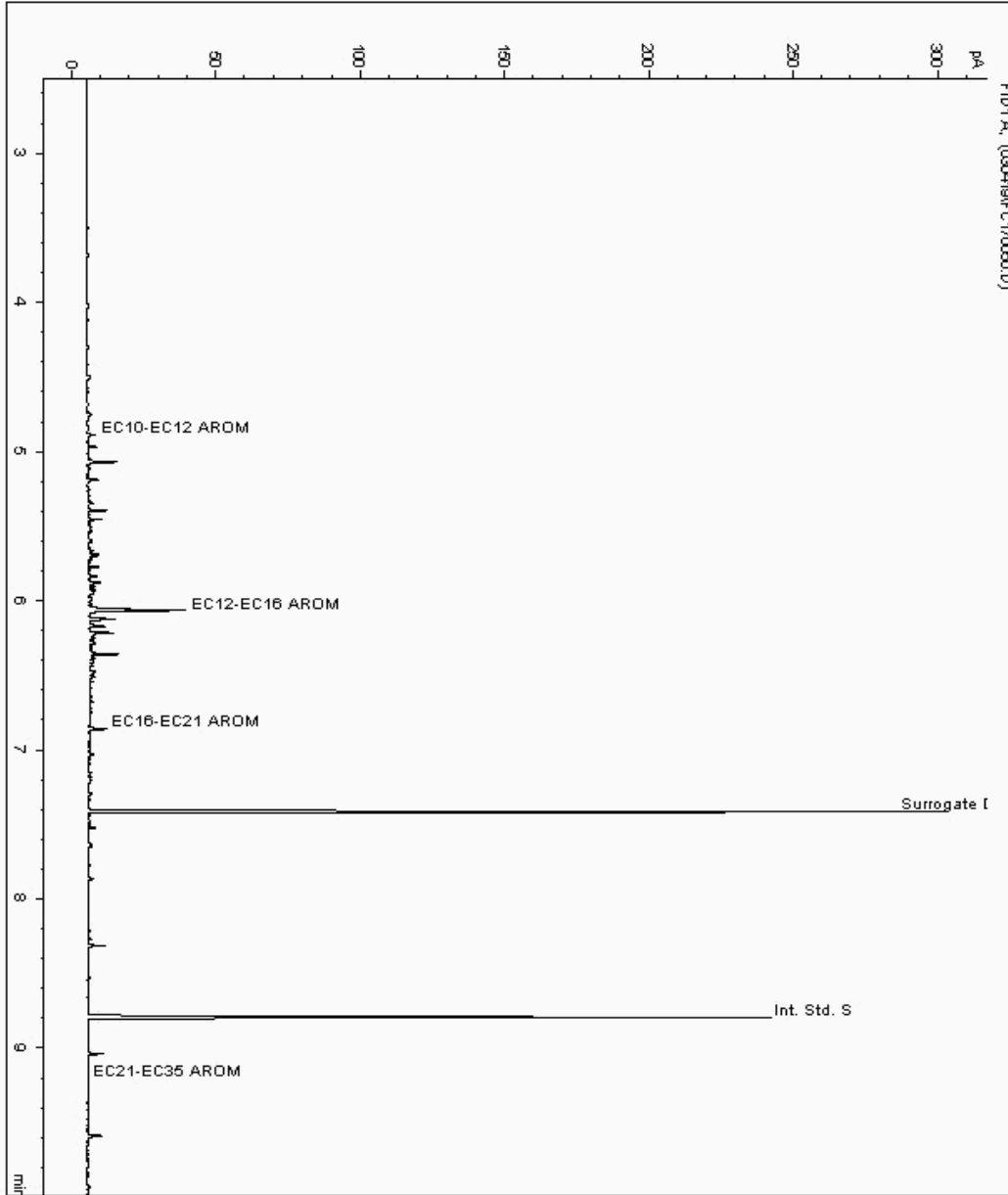
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19447256
Sample ID : BH105

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18270789-
Date Acquired : 05/03/2019 08:29:53 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

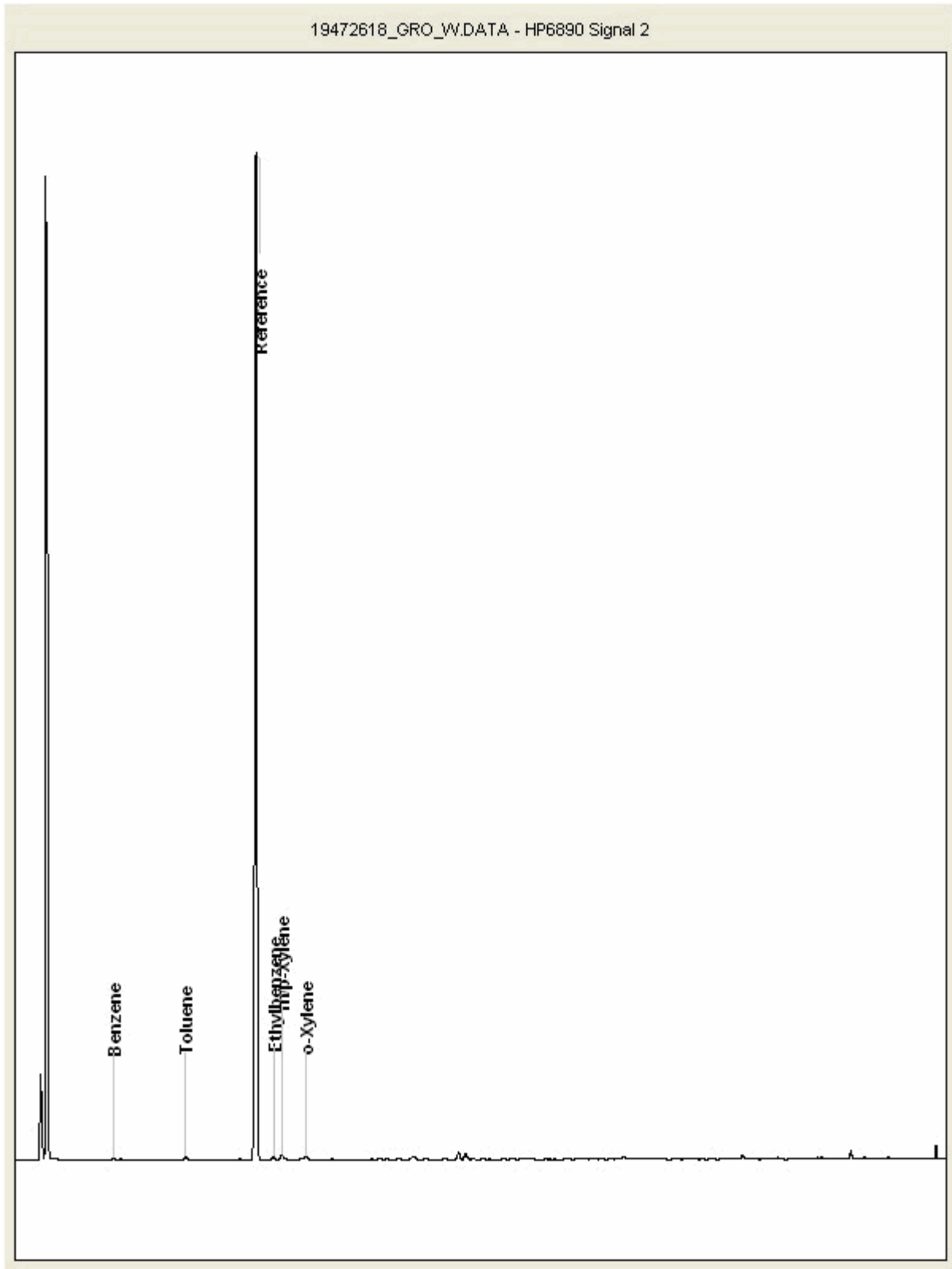
Report Number: 495891
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19472618
Sample ID : BH105

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

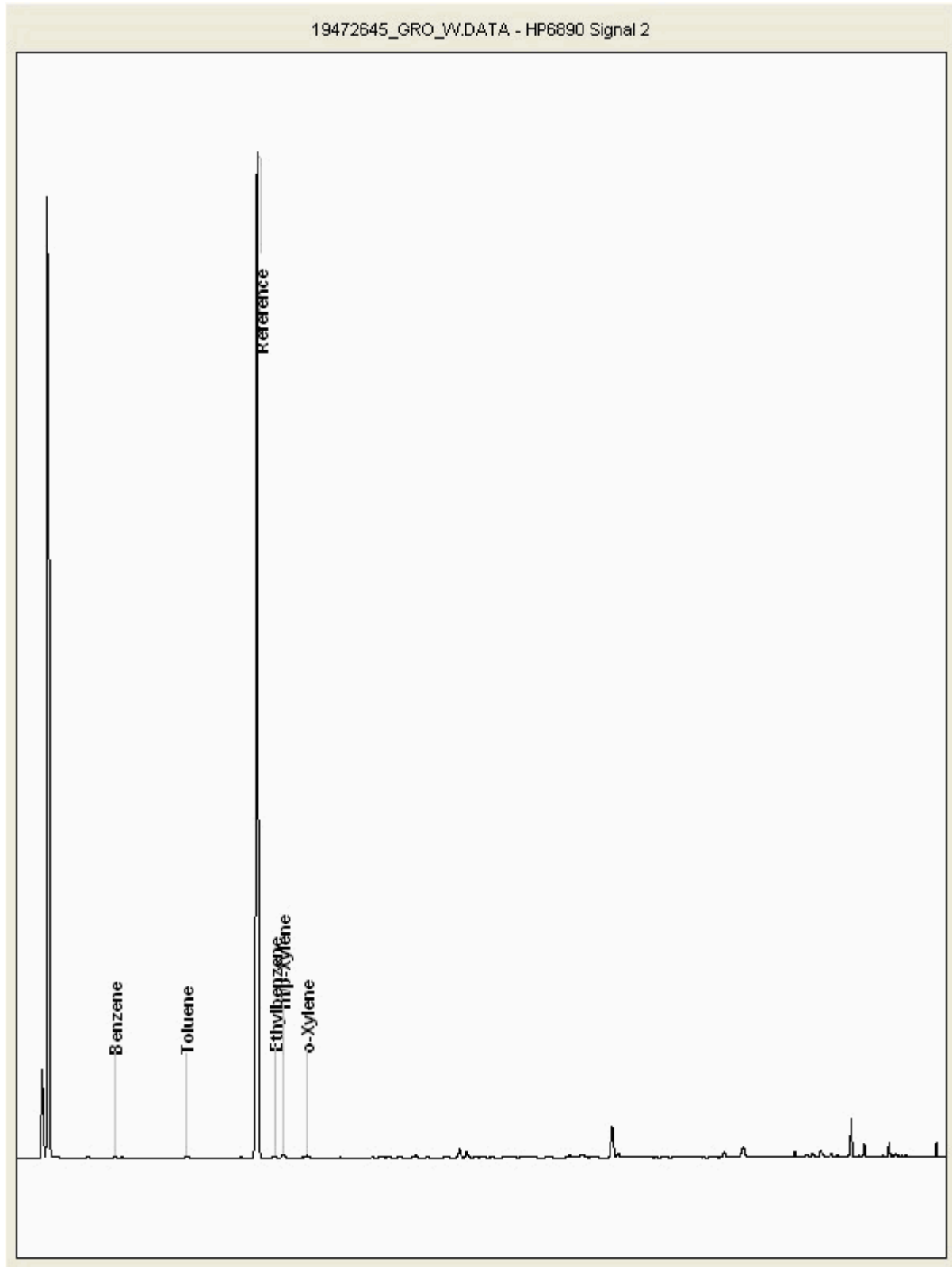
Report Number: 495891
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19472645
Sample ID : BH244

Depth :





CERTIFICATE OF ANALYSIS

Validated

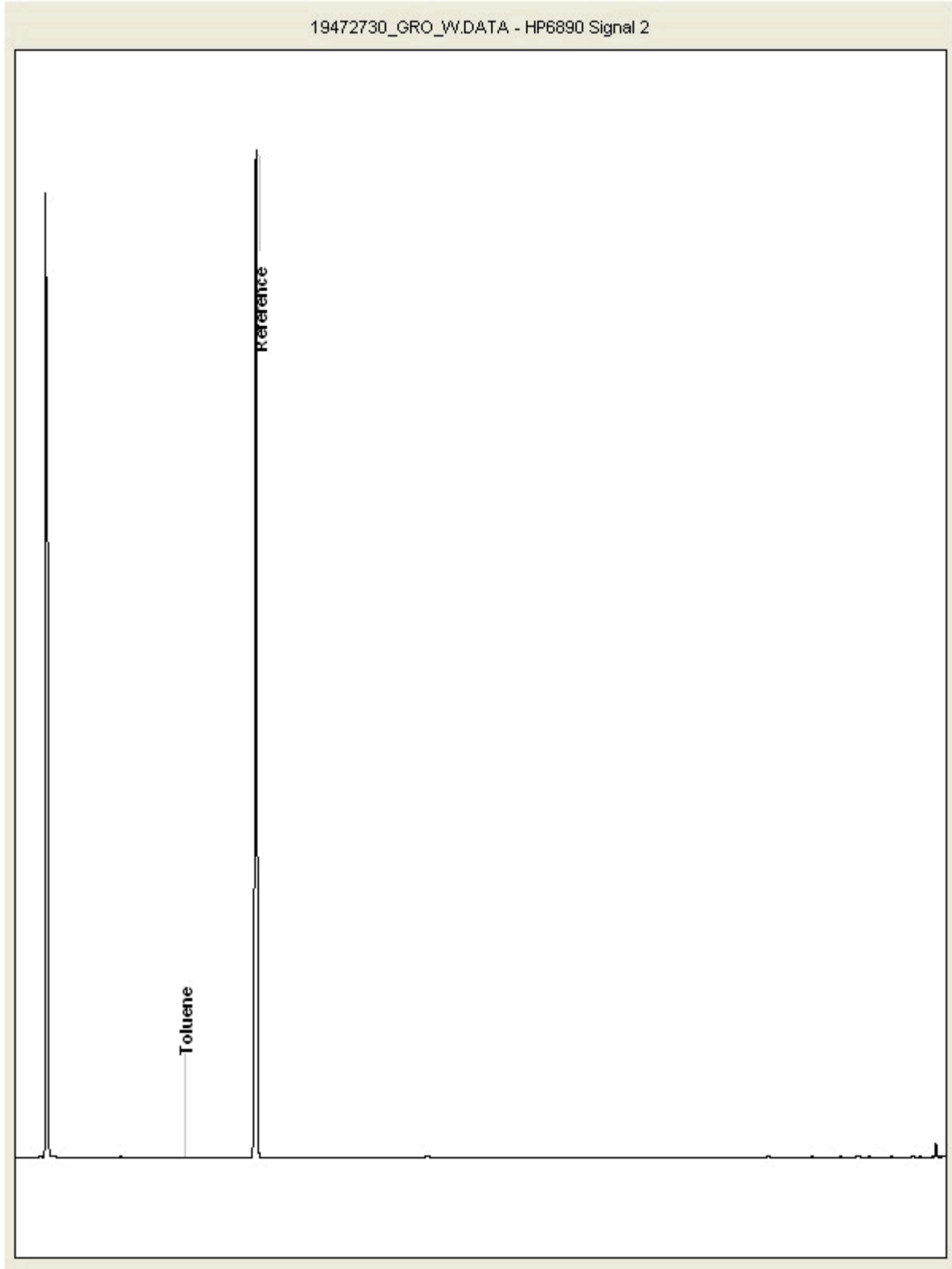
SDG: 190227-68 Client Reference: Report Number: 495891
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19472730
Sample ID : BH107

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

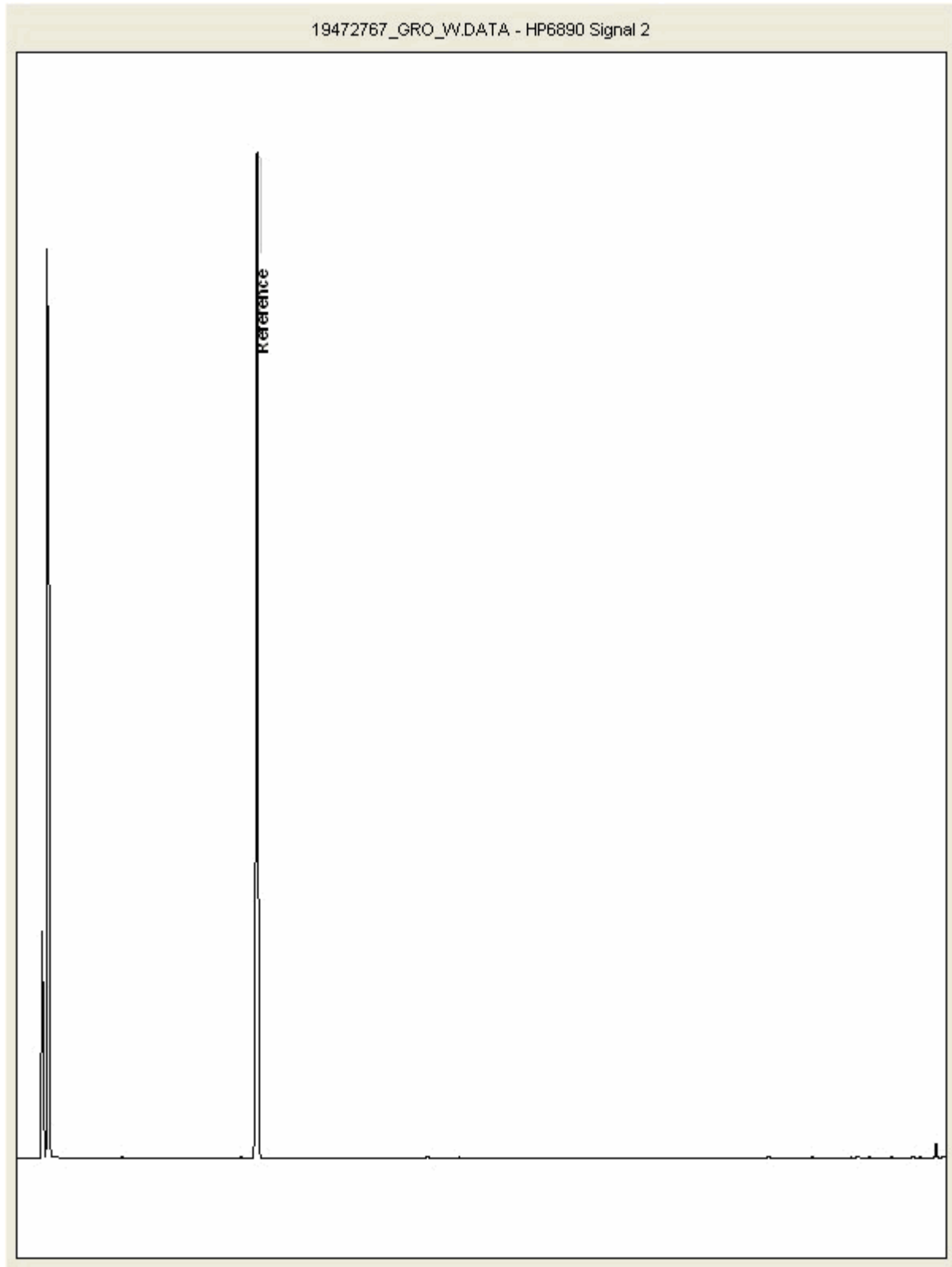
Report Number: 495891
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19472767
Sample ID : BH243

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

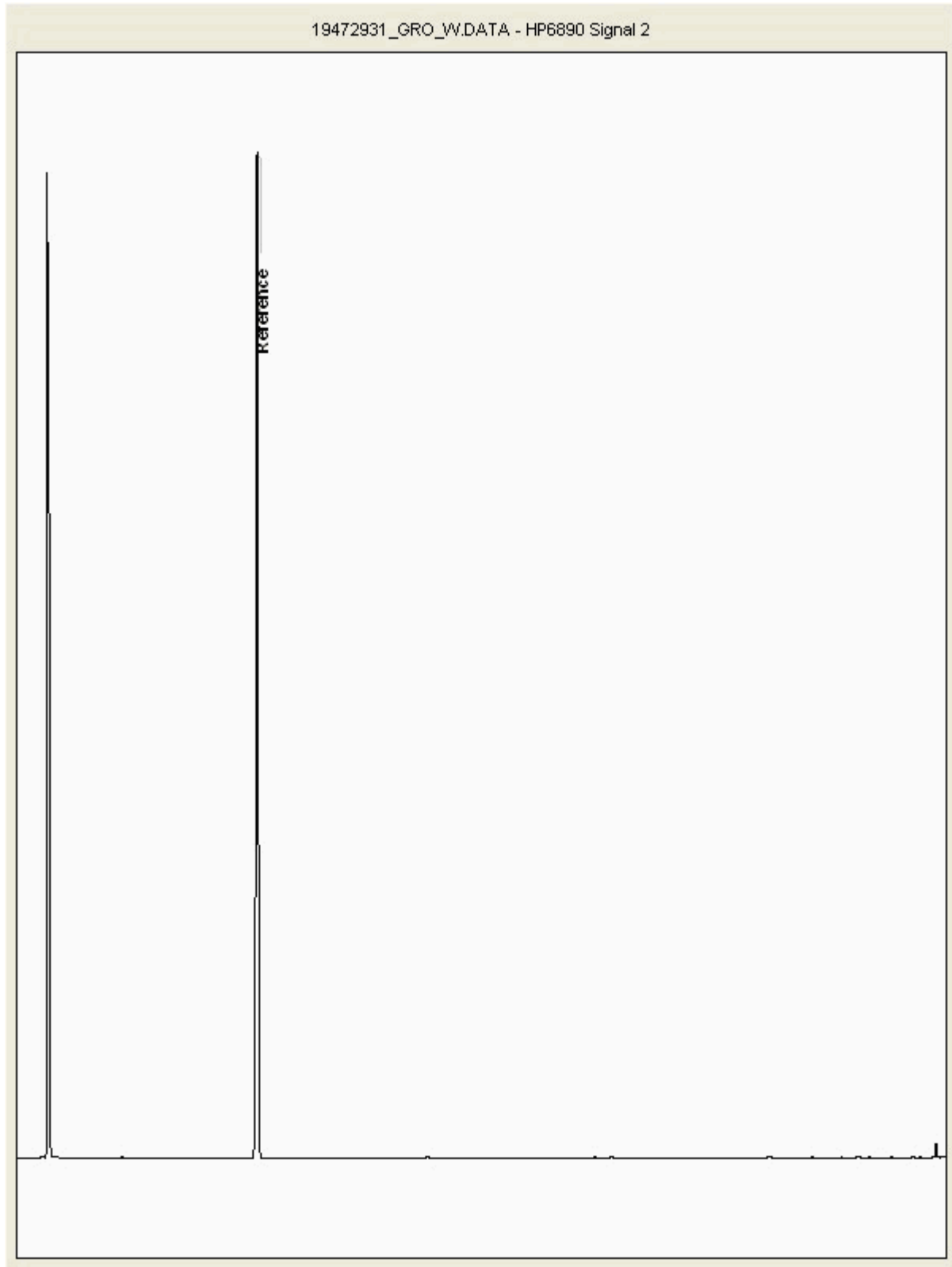
Report Number: 495891
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19472931
Sample ID : BH206

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190227-68
Location: Not Specified

Client Reference:
Order Number: P2021550

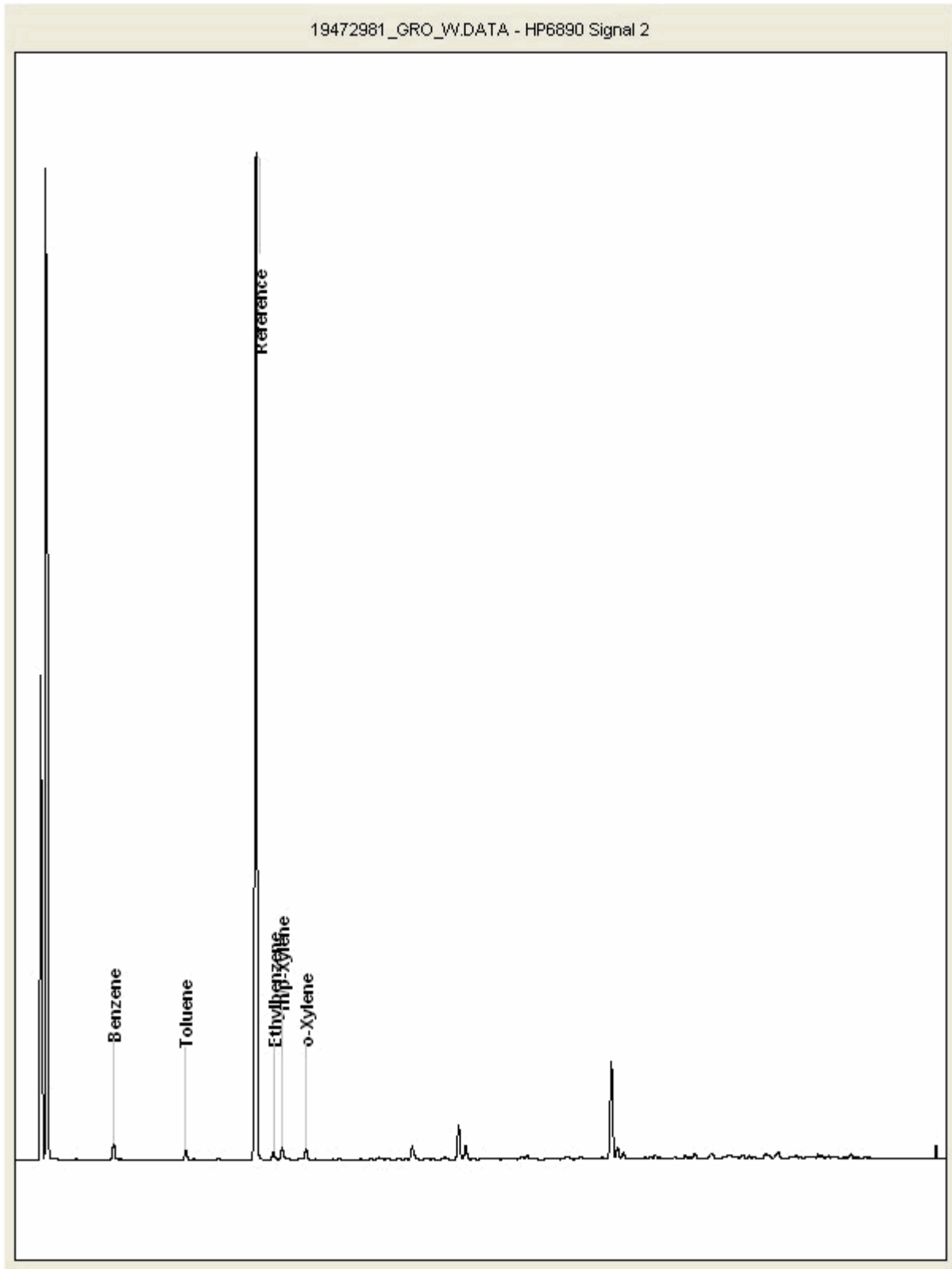
Report Number: 495891
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19472981
Sample ID : WS104

Depth :





CERTIFICATE OF ANALYSIS

SDG: 190227-68	Client Reference:	Report Number: 495891
Location: Not Specified	Order Number: P2021550	Superseded Report:

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestost Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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Deeside
CH5 3US

Tel: (01244) 528700

Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: Paul Feely

CERTIFICATE OF ANALYSIS

Date of report Generation: 08 March 2019
Customer: D_RSK_DUB
Sample Delivery Group (SDG): 190223-89
Your Reference:
Location: Not Specified
Report No: 495888

We received 8 samples on Saturday February 23, 2019 and 8 of these samples were scheduled for analysis which was completed on Friday March 08, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89 Client Reference: Report Number: 495888
Location: Not Specified Order Number: P2021550 Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19426815	BH101			22/02/2019
19426817	BH104			22/02/2019
19426818	BH229			21/02/2019
19426819	BH231			21/02/2019
19426821	BH237			21/02/2019
19426822	BH249			22/02/2019
19426814	TP2			22/02/2019
19426816	WS102			22/02/2019

Maximum Sample/Coolbox Temperature (°C) : 9.8

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89 **Client Reference:** **Report Number:** 495888
Location: Not Specified **Order Number:** P2021550 **Superseded Report:**

Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> Test</div> <div style="display: flex; align-items: center;"> No Determination Possible</div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	
		19426815	BH101			Vial (ALE297)	GW
		19426817	BH104			Vial (ALE297)	GW
		19426818	BH229			Vial (ALE297)	GW
						NaOH (ALE245)	GW
						HNO3 Filtered (ALE204)	GW
						H2SO4 (ALE244)	GW
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	
					0.5l glass bottle (ALE227)	GW	
					ZnAc (ALE246)	GW	
					Vial (ALE297)	GW	
					NaOH (ALE245)	GW	
					HNO3 Filtered (ALE204)	GW	
					H2SO4 (ALE244)	GW	
					500ml Plastic (ALE208)	GW	

19426822	BH249			NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW						
				500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW	X					
				ZnAc (ALE246)	GW						
				Vial (ALE297)	GW						X
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW						
19426821	BH237			500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW	X					
				ZnAc (ALE246)	GW						
				Vial (ALE297)	GW						
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW						
				500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW						
				ZnAc (ALE246)	GW						
19426819	BH231			Vial (ALE297)	GW						
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW						
				500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW						
				ZnAc (ALE246)	GW						
				Vial (ALE297)	GW						
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
19426818	BH229			ZnAc (ALE246)	GW						
				0.5l glass bottle (ALE227)	GW						
				500ml Plastic (ALE208)	GW						
				H2SO4 (ALE244)	GW						
				HNO3 Filtered (ALE204)	GW						
				NaOH (ALE245)	GW						
				Vial (ALE297)	GW						
				ZnAc (ALE246)	GW						
				0.5l glass bottle (ALE227)	GW						
				500ml Plastic (ALE208)	GW						



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Results Legend			Customer Sample Ref.											
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1.3*5@ Sample deviation (see appendix)			BH101		BH104		BH229		BH231		BH237		BH249	
			Depth (m)	Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	Date Sampled	22/02/2019	22/02/2019	21/02/2019	21/02/2019	21/02/2019	21/02/2019	21/02/2019	21/02/2019	22/02/2019	
			Sampled Time	Sampled Time										
			Date Received	Date Received	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	
			SDG Ref	SDG Ref	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89	
			Lab Sample No.(s)	Lab Sample No.(s)	19426815	19426817	19426818	19426818	19426819	19426821	19426821	19426822	19426822	
			AGS Reference	AGS Reference										
Component	LOD/Units	Method												
Suspended solids, Total	<2 mg/l	TM022	28.8	#	12.6	#	10.9	#	22.4	#	2080	#	46.2	#
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	1.75	#	2.22	#	21.4	#	16	#	48.3	#	2	#
Sulphide	<0.01 mg/l	TM101	0.0728	#	0.0384	#	<0.01	#	<0.01	#	<0.01	#	<0.01	#
Fluoride	<0.5 mg/l	TM104	0.802	#	0.9	#	0.66	#	0.737	#	0.709	#	0.572	#
Dissolved solids, Total (meter)	<5 mg/l	TM123	3030	#	5840	#	1750	#	1870	#	2790	#	1250	#
Arsenic (diss.filt)	<0.5 µg/l	TM152	93.5	#	13.5	#	7.54	#	23.9	#		#	495	#
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08	#	<0.08	#	<0.08	#	<0.08	#		#	<0.08	#
Chromium (diss.filt)	<1 µg/l	TM152	6.64	#	<1	#	<1	#	<1	#		#	<1	#
Copper (diss.filt)	<0.3 µg/l	TM152	<0.3	#	<0.3	#	<0.3	#	<0.3	#		#	<0.3	#
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	#	<0.2	#	<0.2	#	<0.2	#		#	<0.2	#
Nickel (diss.filt)	<0.4 µg/l	TM152	0.842	#	0.871	#	0.842	#	3.51	#		#	3.4	#
Selenium (diss.filt)	<1 µg/l	TM152	<1	#	<1	#	<1	#	<1	#		#	<1	#
Zinc (diss.filt)	<1 µg/l	TM152	1.14	#	<1	#	<1	#	2.56	#		#	6.71	#
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	#	<0.01	#	<0.01	#	<0.01	#		#	<0.01	#
Sulphate	<2 mg/l	TM184	262	#	329	#	65.5	#	112	#	121	#	325	#
Chloride	<2 mg/l	TM184	1160	#	2350	#	380	#	341	#	360	#	179	#
PCB congener 28	<0.015 µg/l	TM197	<0.015	#	<0.015	#	<0.015	#	<0.015	#	0.44	#	<0.015	#
PCB congener 52	<0.015 µg/l	TM197	<0.015	#	<0.015	#	<0.015	#	<0.015	#	<0.03	#	<0.015	#
PCB congener 101	<0.015 µg/l	TM197	<0.015	#	<0.015	#	<0.015	#	<0.015	#	<0.03	#	<0.015	#
PCB congener 118	<0.015 µg/l	TM197	<0.015	#	<0.015	#	<0.015	#	<0.015	#	<0.03	#	<0.015	#
PCB congener 138	<0.015 µg/l	TM197	<0.015	#	<0.015	#	<0.015	#	<0.015	#	<0.03	#	<0.015	#
PCB congener 153	<0.015 µg/l	TM197	<0.015	#	<0.015	#	<0.015	#	<0.015	#	<0.03	#	<0.015	#
PCB congener 180	<0.015 µg/l	TM197	<0.015	#	<0.015	#	<0.015	#	<0.015	#	<0.03	#	<0.015	#
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105	#	<0.105	#	<0.105	#	<0.105	#	0.44	#	<0.105	#
Cyanide, Total	<0.05 mg/l	TM227	<0.05	#	<0.05	#	<0.05	#	<0.05	#	<0.05	#	<0.05	#
Chromium, Hexavalent	<0.03 mg/l	TM241	<0.03	#	<0.03	#	<0.03	#	<0.03	#	<0.03	#	<0.03	#
Phenol	<0.002 mg/l	TM259	<0.002	#	<0.002	#	<0.002	#	<0.002	#	<0.002	#	<0.002	#
Cresols	<0.006 mg/l	TM259	<0.006	#	<0.006	#	<0.006	#	<0.006	#	<0.006	#	<0.006	#
Xylenols	<0.008 mg/l	TM259	<0.008	#	<0.008	#	<0.008	#	<0.008	#	<0.008	#	<0.008	#
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003	#	<0.003	#	<0.003	#	<0.003	#	<0.003	#	<0.003	#
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006	#	<0.006	#	<0.006	#	<0.006	#	<0.006	#	<0.006	#
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	<0.025	#	<0.025	#	<0.025	#	<0.025	#	<0.025	#	<0.025	#



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Results Legend			Customer Sample Ref.		TP2	WS102			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1.3.4.6@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW)	Ground Water (GW)					
			22/02/2019	22/02/2019					
			23/02/2019	23/02/2019					
			190223-89	190223-89					
			19426814	19426816					
Component	LOD/Units	Method							
Suspended solids, Total	<2 mg/l	TM022	109 #	166 #					
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	6.9 #	5.92 #					
Sulphide	<0.01 mg/l	TM101	<0.01 #	<0.01 #					
Fluoride	<0.5 mg/l	TM104	0.523 #	<0.5 #					
Dissolved solids, Total (meter)	<5 mg/l	TM123	1300 #	915 #					
Arsenic (diss.filt)	<0.5 µg/l	TM152	87.5 #	5.06 #					
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	<0.08 #					
Chromium (diss.filt)	<1 µg/l	TM152	5.08 #	<1 #					
Copper (diss.filt)	<0.3 µg/l	TM152	0.963 #	<0.3 #					
Lead (diss.filt)	<0.2 µg/l	TM152	4.08 #	<0.2 #					
Nickel (diss.filt)	<0.4 µg/l	TM152	31.1 #	1.68 #					
Selenium (diss.filt)	<1 µg/l	TM152	1.31 #	<1 #					
Zinc (diss.filt)	<1 µg/l	TM152	25.6 #	1.16 #					
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 #					
Sulphate	<2 mg/l	TM184	192 #	200 #					
Chloride	<2 mg/l	TM184	45.4 #	12.2 #					
PCB congener 28	<0.015 µg/l	TM197	<0.015 #	<0.015 #					
PCB congener 52	<0.015 µg/l	TM197	<0.015 #	<0.015 #					
PCB congener 101	<0.015 µg/l	TM197	<0.015 #	<0.015 #					
PCB congener 118	<0.015 µg/l	TM197	<0.015 #	<0.015 #					
PCB congener 138	<0.015 µg/l	TM197	<0.015 #	<0.015 #					
PCB congener 153	<0.015 µg/l	TM197	<0.015 #	<0.015 #					
PCB congener 180	<0.015 µg/l	TM197	<0.015 #	<0.015 #					
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105 #	<0.105 #					
Cyanide, Total	<0.05 mg/l	TM227	<0.05 #	<0.05 #					
Chromium, Hexavalent	<0.03 mg/l	TM241	<0.03 #	<0.03 #					
Phenol	<0.002 mg/l	TM259	69.4 #	<0.002 #					
Cresols	<0.006 mg/l	TM259	150 #	<0.006 #					
Xylenols	<0.008 mg/l	TM259	89.4 #	<0.008 #					
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.15 #	<0.003 #					
2-Isopropylphenol	<0.006 mg/l	TM259	17.8 #	<0.006 #					
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	327 #	<0.025 #					



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

PAH Spec MS - Aqueous (W)

Results Legend			Customer Sample Ref.	BH101	BH104	BH229	BH231	BH237	BH249
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
**	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1.3*5@	Sample deviation (see appendix)								
		Depth (m)							
		Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
		Date Sampled	22/02/2019	22/02/2019	21/02/2019	21/02/2019	21/02/2019	21/02/2019	22/02/2019
		Sampled Time							
		Date Received	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019
		SDG Ref	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89
		Lab Sample No.(s)	19426815	19426817	19426818	19426819	19426819	19426821	19426822
		AGS Reference							
Component	LOD/Units	Method							
Naphthalene (aq)	<0.01 µg/l	TM178	0.0168	0.0381	0.0188	0.0432	5.02	0.0411	
Acenaphthene (aq)	<0.005 µg/l	TM178	0.637	0.0552	<0.005	0.0328	2.29	0.651	
Acenaphthylene (aq)	<0.005 µg/l	TM178	0.0294	0.0145	<0.005	<0.005	0.375	0.0411	
Fluoranthene (aq)	<0.005 µg/l	TM178	0.163	0.106	<0.005	0.0522	10.1	0.104	
Anthracene (aq)	<0.005 µg/l	TM178	0.0107	0.0169	<0.005	0.0446	2.66	0.0524	
Phenanthrene (aq)	<0.005 µg/l	TM178	0.0179	0.0376	0.00961	0.0583	9.46	0.0507	
Fluorene (aq)	<0.005 µg/l	TM178	0.0674	0.0175	0.00606	0.026	2.79	0.0886	
Chrysene (aq)	<0.005 µg/l	TM178	0.0108	0.022	<0.005	0.0146	3.83	0.00867	
Pyrene (aq)	<0.005 µg/l	TM178	0.0928	0.109	<0.005	0.0484	8.87	0.0835	
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	0.0212	0.0276	<0.005	0.0212	4.63	0.00952	
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	0.0222	0.0305	<0.005	0.0159	4.87	0.0129	
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	0.0101	0.0129	<0.005	0.00897	1.95	0.00678	
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	0.0168	0.022	<0.002	0.0104	3.97	0.00833	
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	<0.005	<0.005	<0.005	<0.005	0.664	<0.005	
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	0.0173	0.0245	<0.005	0.0145	2.4	<0.005	
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	0.00953	0.0129	<0.005	0.00738	1.84	<0.005	
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	1.14	0.548	<0.082	0.399	65.8	1.16	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

PAH Spec MS - Aqueous (W)

Results Legend			Customer Sample Ref.	TP2	WS102			
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1.3*5@	Sample deviation (see appendix)							
		Depth (m)						
		Sample Type	Ground Water (GW)	Ground Water (GW)				
		Date Sampled	22/02/2019	22/02/2019				
		Sampled Time						
		Date Received	23/02/2019	23/02/2019				
		SDG Ref	190223-89	190223-89				
		Lab Sample No.(s)	19426814	19426816				
		AGS Reference						
Component	LOD/Units	Method						
Naphthalene (aq)	<0.01 µg/l	TM178	277	0.0231				
Acenaphthene (aq)	<0.005 µg/l	TM178	5.95	0.0238				
Acenaphthylene (aq)	<0.005 µg/l	TM178	4.8	<0.005				
Fluoranthene (aq)	<0.005 µg/l	TM178	0.526	0.484				
Anthracene (aq)	<0.005 µg/l	TM178	0.904	<0.005				
Phenanthrene (aq)	<0.005 µg/l	TM178	1.26	0.0319				
Fluorene (aq)	<0.005 µg/l	TM178	2.09	<0.005				
Chrysene (aq)	<0.005 µg/l	TM178	<0.25	0.0539				
Pyrene (aq)	<0.005 µg/l	TM178	0.452	0.61				
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	<0.25	0.0815				
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	0.603	0.0577				
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	0.395	0.0254				
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	0.548	0.0401				
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	<0.25	0.00552				
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	<0.25	0.022				
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	<0.25	0.0118				
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	294	1.47				



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH101	BH104	BH229	BH231	BH237	BH249
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1.3x5@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 22/02/2019 23/02/2019 190223-89 19426815	Ground Water (GW) 22/02/2019 23/02/2019 190223-89 19426817	Ground Water (GW) 21/02/2019 23/02/2019 190223-89 19426818	Ground Water (GW) 21/02/2019 23/02/2019 190223-89 19426819	Ground Water (GW) 21/02/2019 23/02/2019 190223-89 19426821	Ground Water (GW) 22/02/2019 23/02/2019 190223-89 19426822
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Acenaphthylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Acenaphthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #	<2 #	<2 #	<200 #	<2 #
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<100 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH101	BH104	BH229	BH231	BH237	BH249
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*5@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 22/02/2019	Ground Water (GW) 22/02/2019	Ground Water (GW) 21/02/2019	Ground Water (GW) 21/02/2019	Ground Water (GW) 21/02/2019	Ground Water (GW) 22/02/2019
Component	LOD/Units	Method							
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Carbazole (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Chrysene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Dibenzofuran (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Diethyl phthalate (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Dimethyl phthalate (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<5 #	<5 #	<5 #	<5 #	<500 #	<5 #
Fluoranthene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Fluorene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Hexachlorobenzene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Pentachlorophenol (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Phenol (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Hexachloroethane (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Nitrobenzene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Naphthalene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Isophorone (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Phenanthrene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #
Pyrene (aq)	<1 µg/l	TM176		<1 #	<1 #	<1 #	<1 #	<100 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.		TP2	WS102			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1.3*5@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 22/02/2019	Ground Water (GW) 22/02/2019				
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	29300 #	<1 #					
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2-Chlorophenol (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2-Methylphenol (aq)	<1 µg/l	TM176	35200 #	<1 #					
2-Nitroaniline (aq)	<1 µg/l	TM176	<1000 #	<1 #					
2-Nitrophenol (aq)	<1 µg/l	TM176	<1000 #	<1 #					
3-Nitroaniline (aq)	<1 µg/l	TM176	<1000 #	<1 #					
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1000 #	<1 #					
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1000 #	<1 #					
4-Chloroaniline (aq)	<1 µg/l	TM176	<1000 #	<1 #					
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1000 #	<1 #					
4-Methylphenol (aq)	<1 µg/l	TM176	63400 #	<1 #					
4-Nitroaniline (aq)	<1 µg/l	TM176	<1000 #	<1 #					
4-Nitrophenol (aq)	<1 µg/l	TM176	<1000 #	<1 #					
Azobenzene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
Acenaphthylene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
Acenaphthene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
Anthracene (aq)	<1 µg/l	TM176	<1000 #	<1 #					
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1000 #	<1 #					
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1000 #	<1 #					
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2000 #	<2 #					
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1000 #	<1 #					



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample Ref.	TP2	WS102			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*5@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 22/02/2019 23/02/2019 190223-89 19426814	Ground Water (GW) 22/02/2019 23/02/2019 190223-89 19426816			
Component	LOD/Units	Method					
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Carbazole (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Chrysene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Dibenzofuran (aq)	<1 µg/l	TM176	<1000 #	<1 #			
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Diethyl phthalate (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1000 #	<1 #			
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5000 #	<5 #			
Fluoranthene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Fluorene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Pentachlorophenol (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Phenol (aq)	<1 µg/l	TM176	26900 #	<1 #			
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Hexachloroethane (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Nitrobenzene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Naphthalene (aq)	<1 µg/l	TM176	2680 #	<1 #			
Isophorone (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Phenanthrene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1000 #	<1 #			
Pyrene (aq)	<1 µg/l	TM176	<1000 #	<1 #			



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

TPH CWG (W)

Results Legend			Customer Sample Ref.	BH101	BH104	BH229	BH231	BH237	BH249
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
**	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1.3*5@	Sample deviation (see appendix)								
		Customer Sample Ref.	BH101	BH104	BH229	BH231	BH237	BH249	
		Depth (m)							
		Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
		Date Sampled	22/02/2019	22/02/2019	21/02/2019	21/02/2019	21/02/2019	21/02/2019	22/02/2019
		Sampled Time							
		Date Received	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019
		SDG Ref	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89
		Lab Sample No.(s)	19426815	19426817	19426818	19426819	19426821	19426822	
		AGS Reference							
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM245	110	102	98	99	88	105	
GRO >C5-C12	<50 µg/l	TM245	<50	<50	<50	<50	<50	<50	<50
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	<3
Benzene	<7 µg/l	TM245	<7	<7	<7	<7	<7	<7	<7
Toluene	<4 µg/l	TM245	<4	<4	<4	<4	<4	<4	<4
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	<8 µg/l	TM245	<8	<8	<8	<8	<8	<8	<8
o-Xylene	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	<3
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11	<11	<11	<11
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28	<28	<28	<28
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	34	<10	<10	<10	<200	<10	<10
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	53	<10	<10	<10	<200	<10	<10
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	20	<10	<10	<10	11900	<10	<10
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	107	<10	<10	<10	11900	<10	<10
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<20	<10	<10
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	192	<10	<10
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	10	<10	3030	<10	<10
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	10	<10	3220	<10	<10
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	107	<10	10	<10	15100	<10	<10
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	73	<10	<10	<10	11900	<10	<10



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

TPH CWG (W)

Results Legend			Customer Sample Ref.		TP2	WS102			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. (F) Trigger breach confirmed 1.3*5@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Ground Water (GW) 22/02/2019	Ground Water (GW) 22/02/2019					
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM245	97	118					
GRO >C5-C12	<50 µg/l	TM245	16400	83	#	#			
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3					
Benzene	<7 µg/l	TM245	742	<7					
Toluene	<4 µg/l	TM245	635	<4					
Ethylbenzene	<5 µg/l	TM245	96	<5					
m,p-Xylene	<8 µg/l	TM245	495	<8					
o-Xylene	<3 µg/l	TM245	316	<3					
Sum of detected Xylenes	<11 µg/l	TM245	811	<11					
Sum of detected BTEX	<28 µg/l	TM245	2280	<28					
Aliphatics >C5-C6	<10 µg/l	TM245	26	<10					
Aliphatics >C6-C8	<10 µg/l	TM245	569	<10					
Aliphatics >C8-C10	<10 µg/l	TM245	1450	11					
Aliphatics >C10-C12	<10 µg/l	TM245	6630	34					
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	36	282					
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	335					
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	170					
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	36	787					
Aromatics >EC5-EC7	<10 µg/l	TM245	742	<10					
Aromatics >EC7-EC8	<10 µg/l	TM245	635	<10					
Aromatics >EC8-EC10	<10 µg/l	TM245	1880	<10					
Aromatics >EC10-EC12	<10 µg/l	TM245	4420	23					
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	2730	47					
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	357	88					
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	41	78					
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	3130	213					
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	19500	1080					
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<10	505					



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.	BH101	BH104	BH229	BH231	BH237	BH249
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery.								
(F)	Trigger breach confirmed								
1.3.5@	Sample deviation (see appendix)								
			Depth (m)						
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
			Date Sampled	22/02/2019	22/02/2019	21/02/2019	21/02/2019	21/02/2019	22/02/2019
			Sampled Time						
			Date Received	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019	23/02/2019
			SDG Ref	190223-89	190223-89	190223-89	190223-89	190223-89	190223-89
			Lab Sample No.(s)	19426815	19426817	19426818	19426819	19426821	19426822
			AGS Reference						
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208	114	117	112	113	113	120	
Toluene-d8**	%	TM208	98.3	98.7	97.1	98.1	96.7	98.5	
4-Bromofluorobenzene**	%	TM208	98.1	94.6	96.4	98.2	91.5	98.1	
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	<3	<3	<3	<3
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	1.31
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Benzene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
Toluene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.	BH101	BH104	BH229	BH231	BH237	BH249
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 22/02/2019	Ground Water (GW) 22/02/2019	Ground Water (GW) 21/02/2019	Ground Water (GW) 21/02/2019	Ground Water (GW) 21/02/2019	Ground Water (GW) 22/02/2019
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	TP2	WS102				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.							
aq	Aqueous / settled sample.		Ground Water (GW)	Ground Water (GW)				
diss.filt	Dissolved / filtered sample.		22/02/2019	22/02/2019				
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		23/02/2019	23/02/2019				
(F)	Trigger breach confirmed		190223-89	190223-89				
1.3x5@	Sample deviation (see appendix)		19426814	19426816				
Component	LOD/Units		Method					
Dibromofluoromethane**	%	TM208	113	110				
Toluene-d8**	%	TM208	98.9	98.5				
4-Bromofluorobenzene**	%	TM208	88	96.6				
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1				
Chloromethane	<1 µg/l	TM208	<1	<1	#	#		
Vinyl chloride	<1 µg/l	TM208	<1	<1	#	#		
Bromomethane	<1 µg/l	TM208	<1	<1	#	#		
Chloroethane	<1 µg/l	TM208	<1	<1	#	#		
Trichlorofluoromethane	<1 µg/l	TM208	1.4	<1	#	#		
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	#	#		
Carbon disulphide	<1 µg/l	TM208	<1	<1	#	#		
Dichloromethane	<3 µg/l	TM208	<3	<3	#	#		
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	#	#		
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	#	#		
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	#	#		
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	#	#		
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	#	#		
Bromochloromethane	<1 µg/l	TM208	<1	<1	#	#		
Chloroform	<1 µg/l	TM208	<1	<1	#	#		
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	#	#		
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	#	#		
Carbontetrachloride	<1 µg/l	TM208	<1	<1	#	#		
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	#	#		
Benzene	<1 µg/l	TM208	1270	<1	#	#		
Trichloroethene	<1 µg/l	TM208	<1	<1	#	#		
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	#	#		
Dibromomethane	<1 µg/l	TM208	<1	<1	#	#		
Bromodichloromethane	<1 µg/l	TM208	<1	<1	#	#		
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	#	#		
Toluene	<1 µg/l	TM208	986	<1	#	#		
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	#	#		
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	#	#		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	TP2	WS102			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference					
M	mCERTS accredited.		Ground Water (GW)	Ground Water (GW)			
aq	Aqueous / settled sample.		22/02/2019	22/02/2019			
diss.fit	Dissolved / filtered sample.						
tot.unfit	Total / unfiltered sample.						
*	Subcontracted - refer to subcontractor report for accreditation status.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		23/02/2019	23/02/2019			
(F)	Trigger breach confirmed		190223-89	190223-89			
1-3*5@	Sample deviation (see appendix)		19426814	19426816			
Component	LOD/Units		Method				
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #			
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #			
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #			
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #			
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #			
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #			
Ethylbenzene	<1 µg/l	TM208	90 #	<1 #			
m,p-Xylene	<1 µg/l	TM208	481 #	<1 #			
o-Xylene	<1 µg/l	TM208	362 #	<1 #			
Styrene	<1 µg/l	TM208	92.8 #	<1 #			
Bromoform	<1 µg/l	TM208	<1 #	<1 #			
Isopropylbenzene	<1 µg/l	TM208	6.22 #	<1 #			
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #			
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #			
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #			
Propylbenzene	<1 µg/l	TM208	4.32 #	<1 #			
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #			
1,3,5-Trimethylbenzene	<1 µg/l	TM208	46.6 #	<1 #			
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #			
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #			
1,2,4-Trimethylbenzene	<1 µg/l	TM208	119 #	<1 #			
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #			
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #			
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #			
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #			
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #			
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #			
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #			
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #			
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #			
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #			
Naphthalene	<1 µg/l	TM208	5980 #	<1 #			



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89 **Client Reference:** **Report Number:** 495888
Location: Not Specified **Order Number:** P2021550 **Superseded Report:**

Notification of NDPs (No determination possible)

Date Received : 23/02/2019 12:28:44

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
19426821	BH237		Mercury Dissolved	Sample unsuitable for analysis
19426821	BH237		Dissolved Metals by ICP-MS	Sample unsuitable for analysis



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89 Client Reference: Report Number: 495888
Location: Not Specified Order Number: P2021550 Superseded Report:

Table of Results - Appendix

Method No	Reference	Description
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM101	Method 4500B & C, AWWA/APHA, 20th Ed., 1999	Determination of Sulphide in soil and water samples using the Kone Analyser
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM197	Modified: US EPA Method 8082.EA Method 174 and 5109631	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Waters
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM241	Methods for the Examination of Waters and Associated Materials; Chromium in Raw and Potable Waters and Sewage Effluents 1980.	The Determination of Hexavalent Chromium in Waters and Leachates using the Kone Analyser
TM245	By GC-FID	Determination of GRO by Headspace in waters
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Test Completion Dates

Lab Sample No(s)	19426815	19426817	19426818	19426819	19426821	19426822	19426814	19426816
Customer Sample Ref.	BH101	BH104	BH229	BH231	BH237	BH249	TP2	WS102
AGS Ref.								
Depth								
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019
Anions by Kone (w)	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
Cyanide Comp/Free/Total/Thiocyanate	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019
Dissolved Metals by ICP-MS	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019		04-Mar-2019	04-Mar-2019	04-Mar-2019
EPH CWG (Aliphatic) Aqueous GC (W)	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019
EPH CWG (Aromatic) Aqueous GC (W)	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019
Fluoride	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
GRO by GC-FID (W)	02-Mar-2019	02-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	02-Mar-2019	02-Mar-2019
Hexavalent Chromium (w)	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
Mercury Dissolved	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019		04-Mar-2019	04-Mar-2019	04-Mar-2019
PAH Spec MS - Aqueous (W)	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	05-Mar-2019	28-Feb-2019
PCB Congeners - Aqueous (W)	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
Phenols by HPLC (W)	07-Mar-2019	07-Mar-2019	05-Mar-2019	05-Mar-2019	07-Mar-2019	06-Mar-2019	08-Mar-2019	07-Mar-2019
Sulphide	26-Feb-2019	26-Feb-2019	26-Feb-2019	27-Feb-2019	27-Feb-2019	26-Feb-2019	27-Feb-2019	27-Feb-2019
Suspended Solids	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	26-Feb-2019	25-Feb-2019
SVOC MS (W) - Aqueous	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019
Total Dissolved Solids	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	27-Feb-2019	26-Feb-2019
TPH CWG (W)	02-Mar-2019	02-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	02-Mar-2019	02-Mar-2019
VOC MS (W)	03-Mar-2019	03-Mar-2019	03-Mar-2019	03-Mar-2019	03-Mar-2019	03-Mar-2019	04-Mar-2019	03-Mar-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

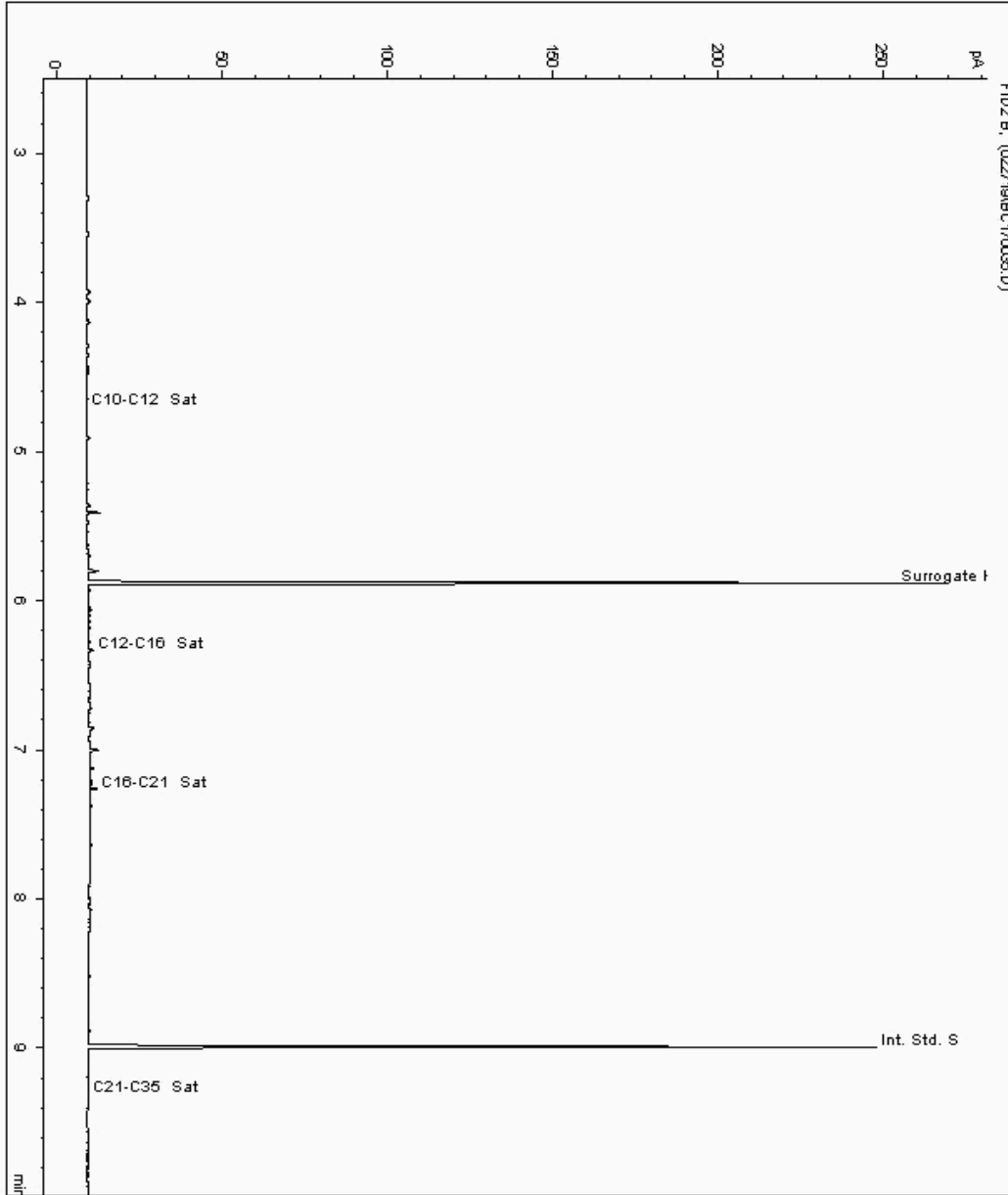
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19432950
Sample ID : BH101

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257489-
Date Acquired : 28/02/2019 03:30:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

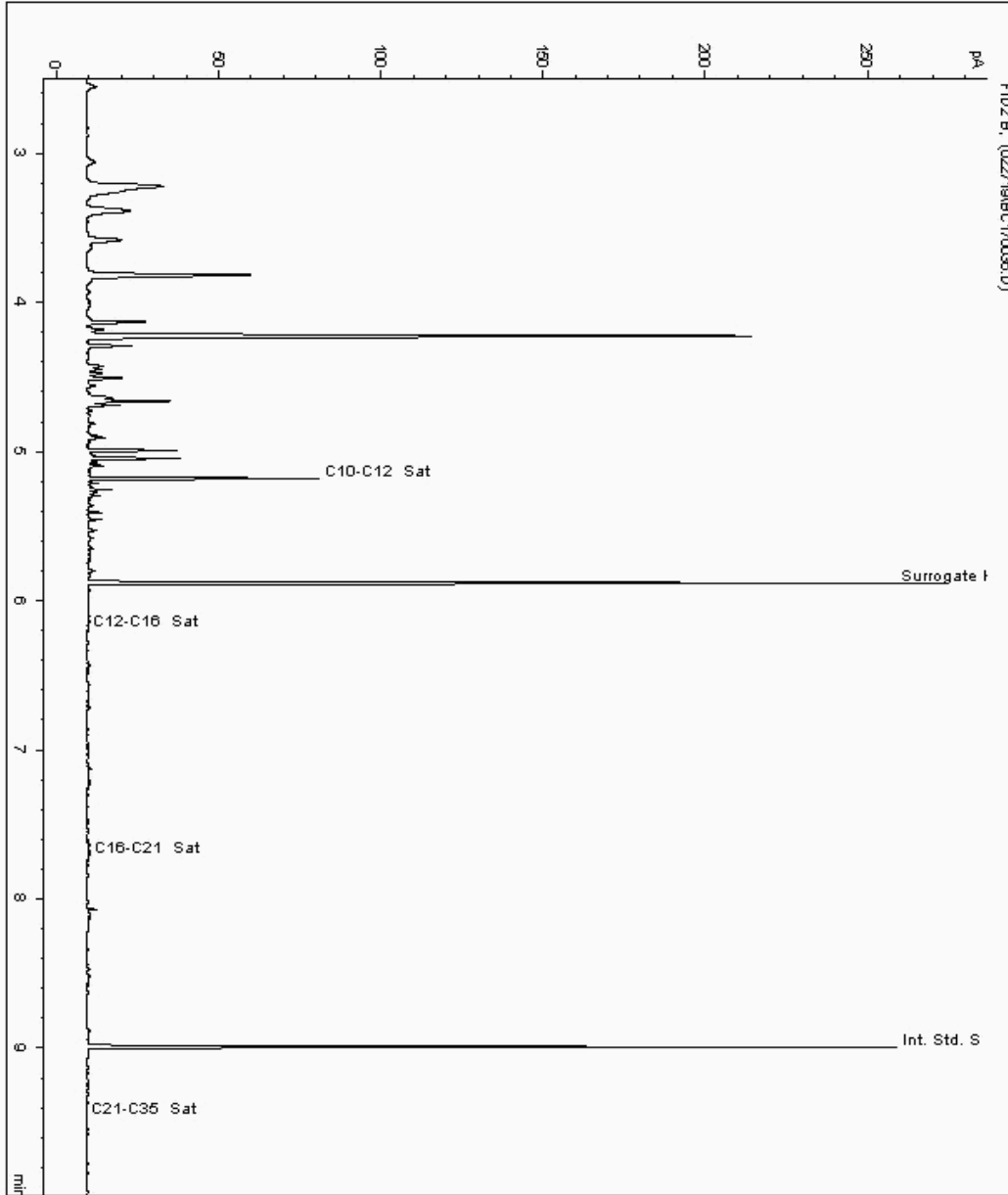
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19432961
Sample ID : TP2

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257469-
Date Acquired : 28/02/2019 03:55:08 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

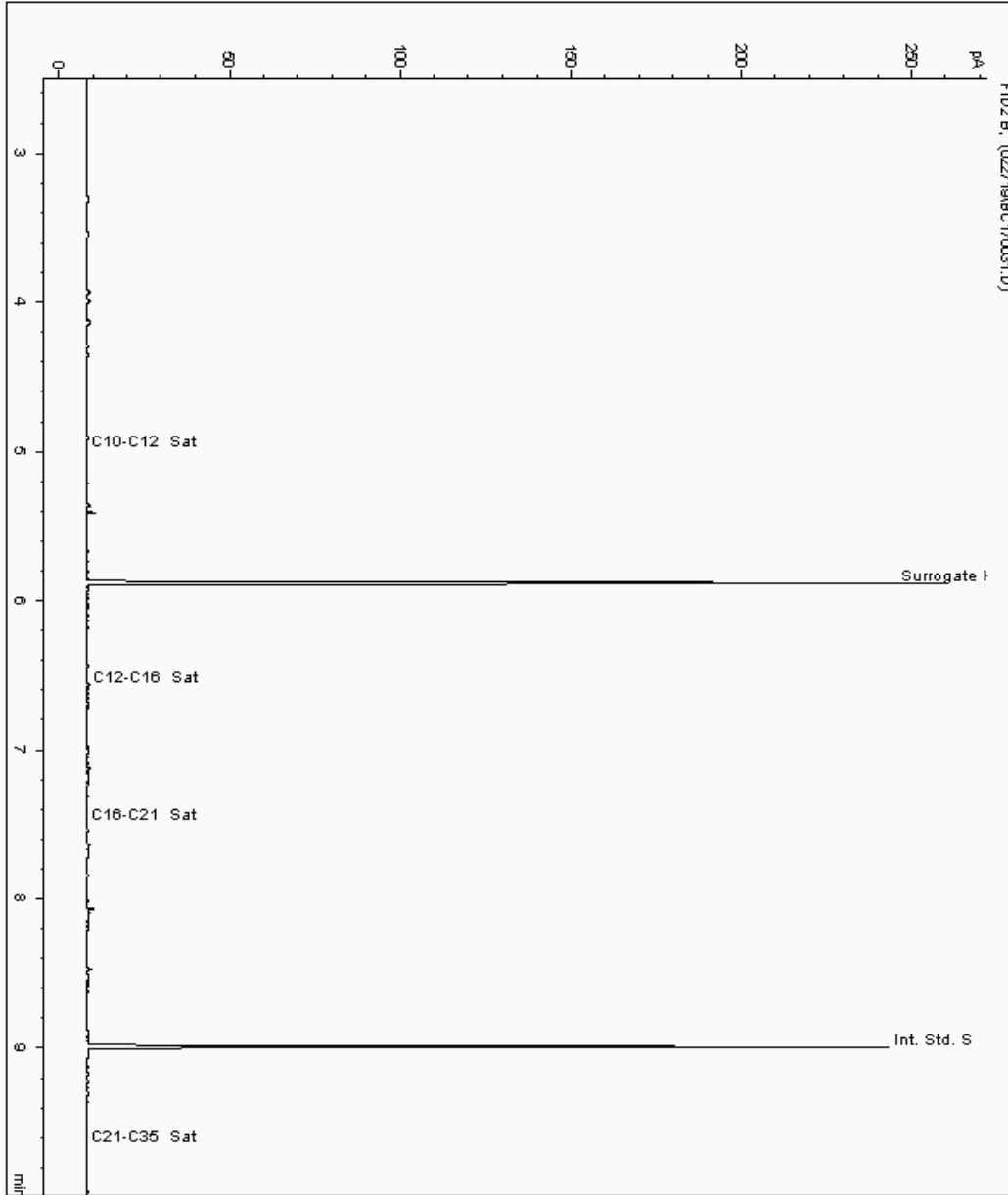
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19432966
Sample ID : BH104

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257532-
Date Acquired : 28/02/2019 02:06:21 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

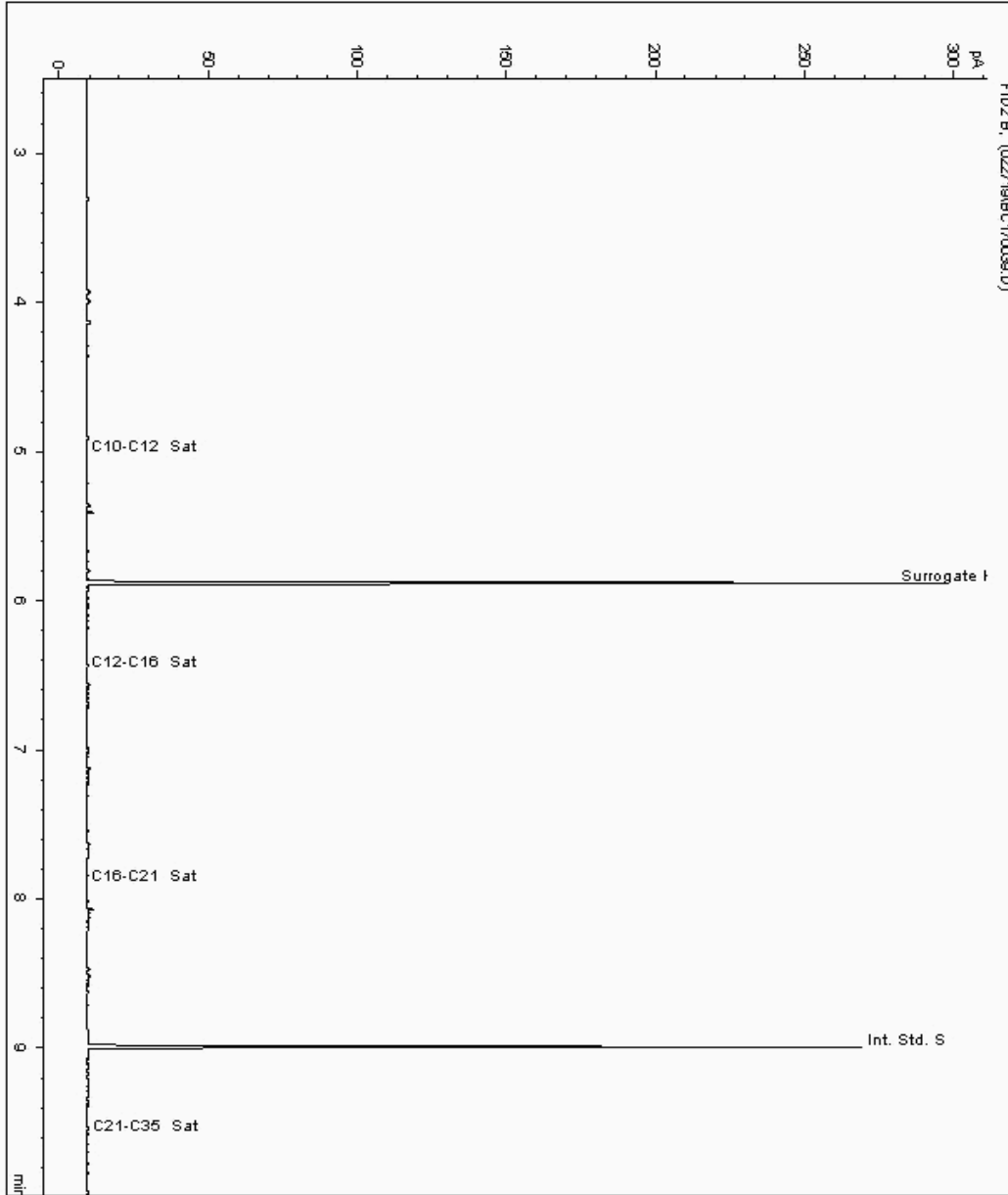
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19432970
Sample ID : BH249

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257616-
Date Acquired : 28/02/2019 05:08:27 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

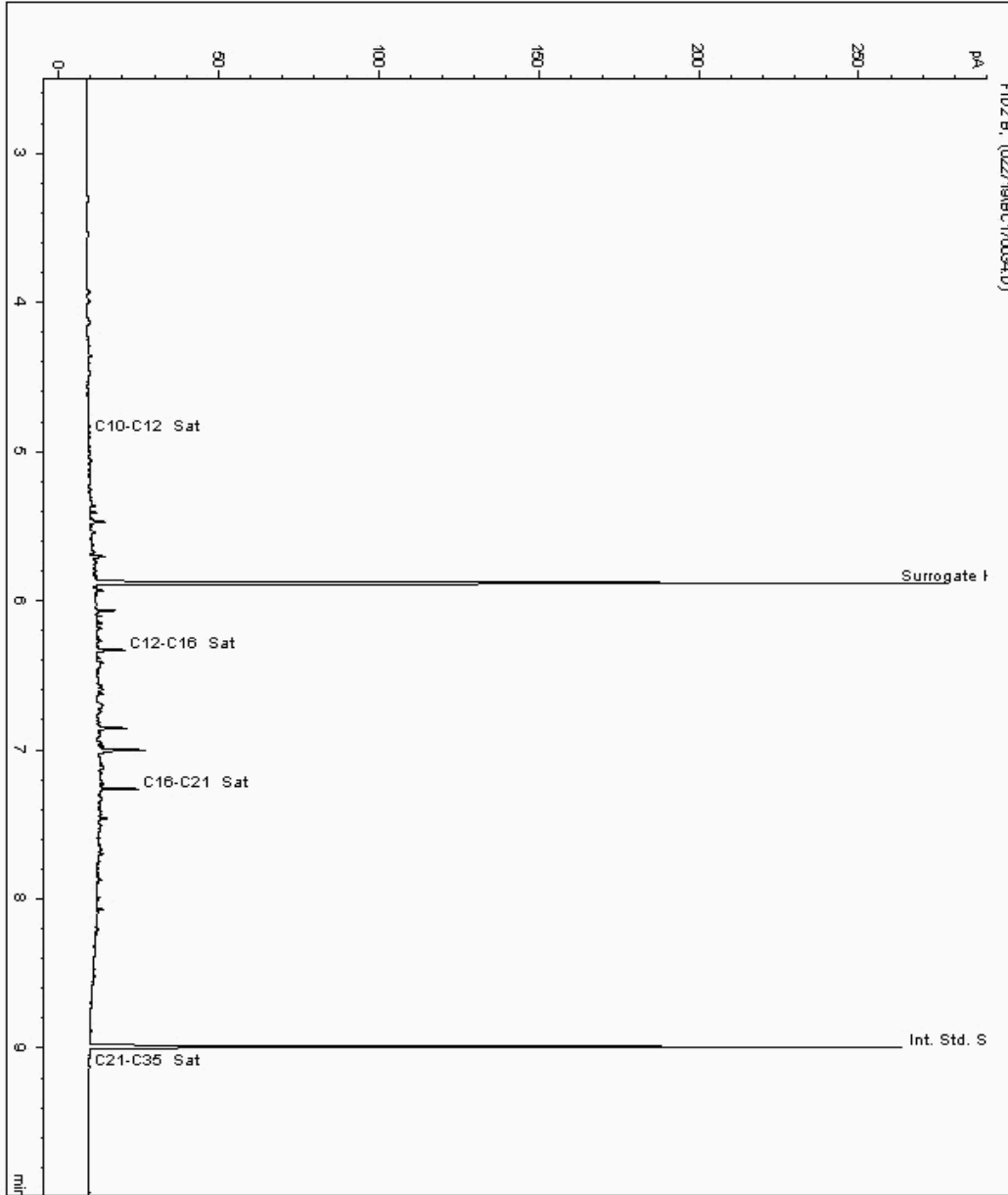
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19432974
Sample ID : WS102

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257509-
Date Acquired : 28/02/2019 03:06:10 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

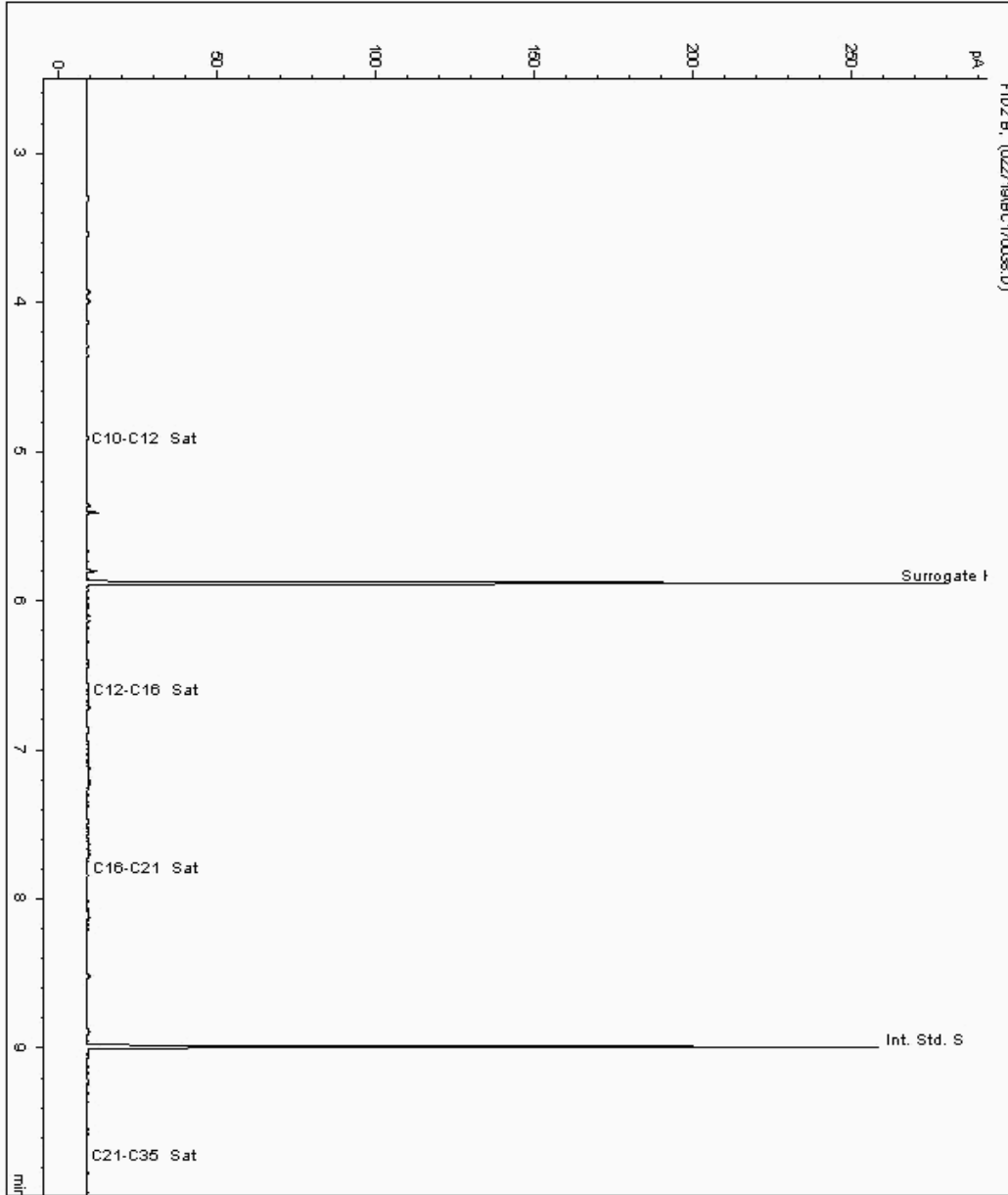
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19432976
Sample ID : BH229

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257552-
Date Acquired : 28/02/2019 04:44:03 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

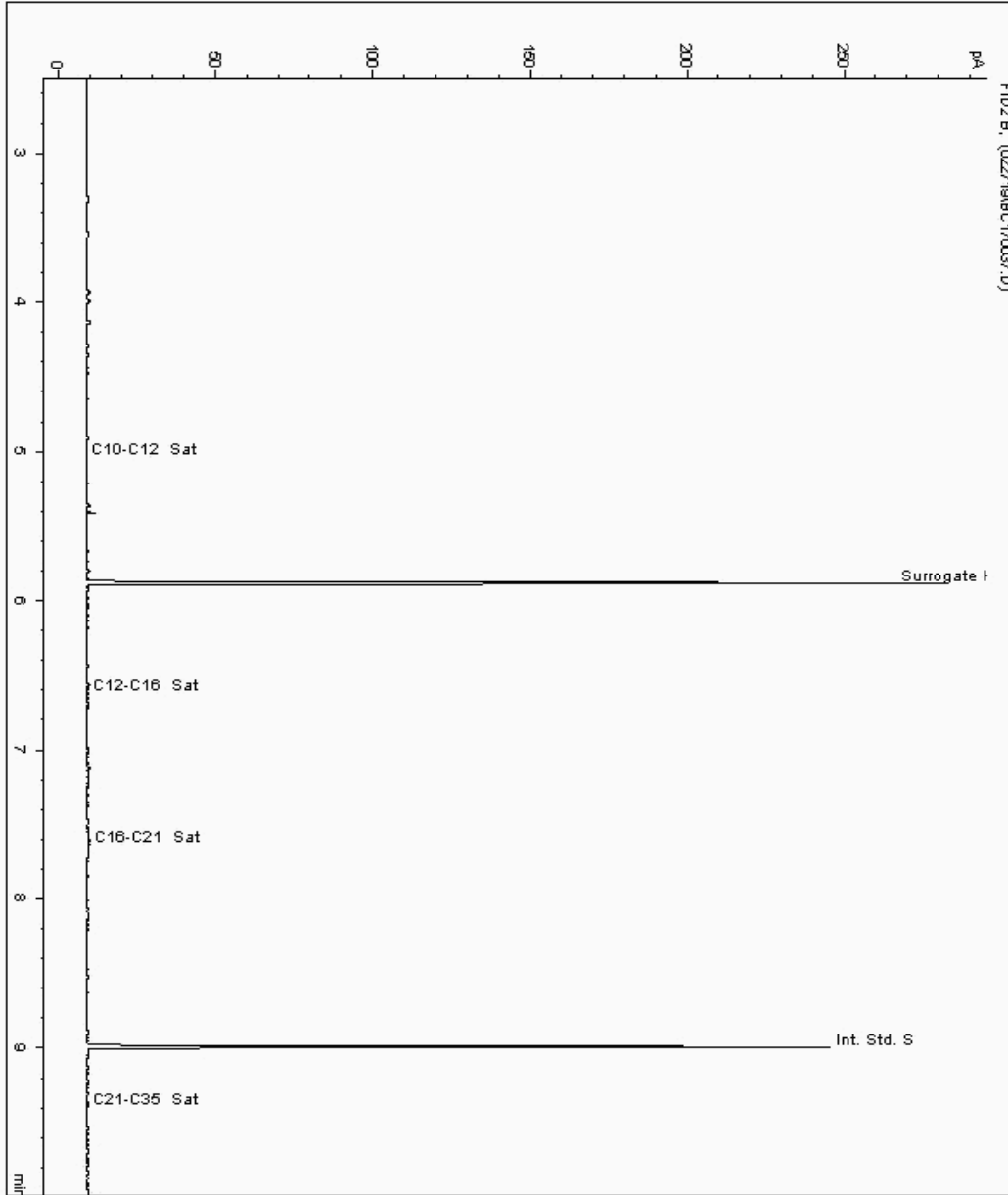
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19432983
Sample ID : BH231

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257573-
Date Acquired : 28/02/2019 04:19:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

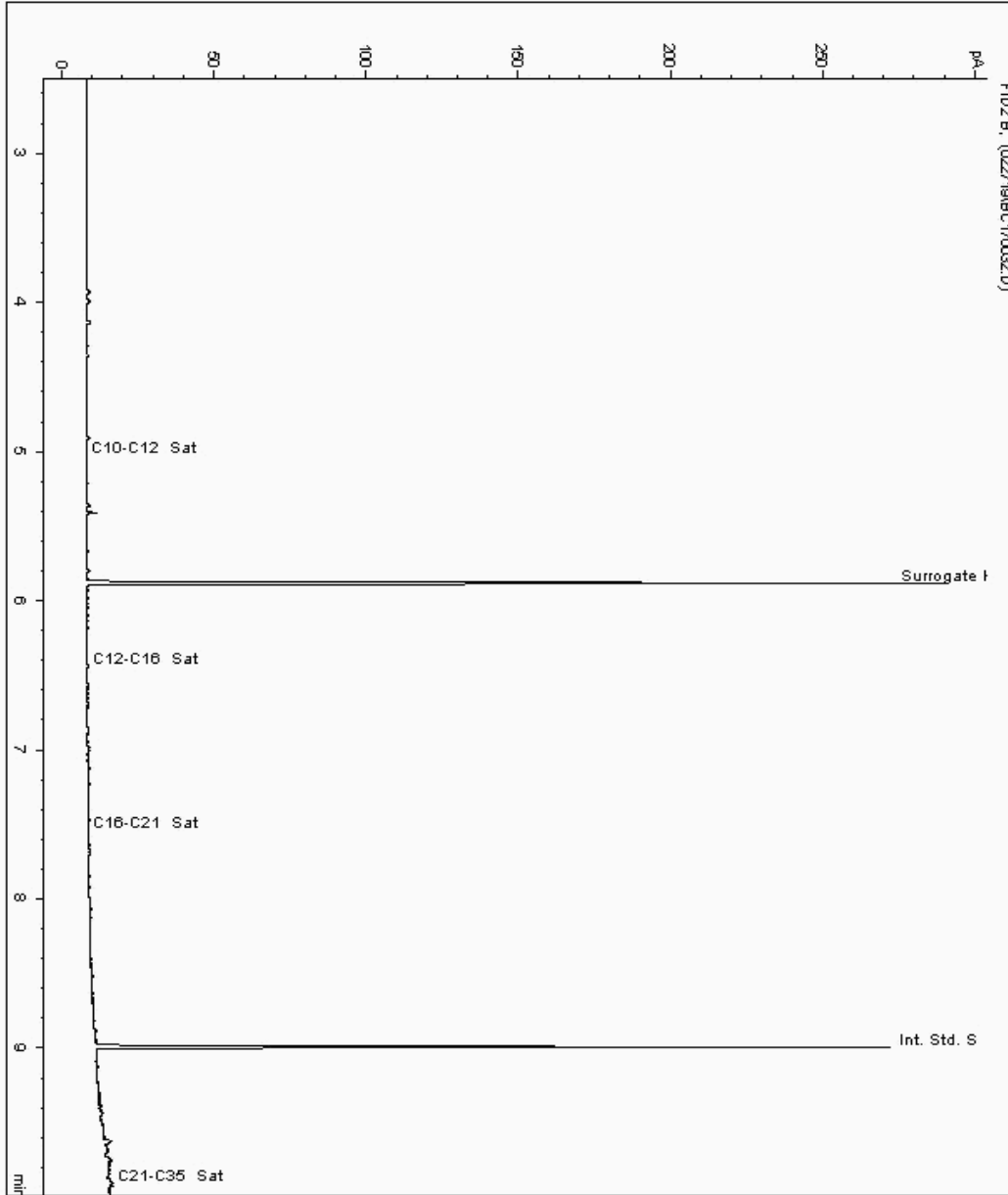
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19433001
Sample ID : BH237

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257593-
Date Acquired : 28/02/2019 02:30:55 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.500





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

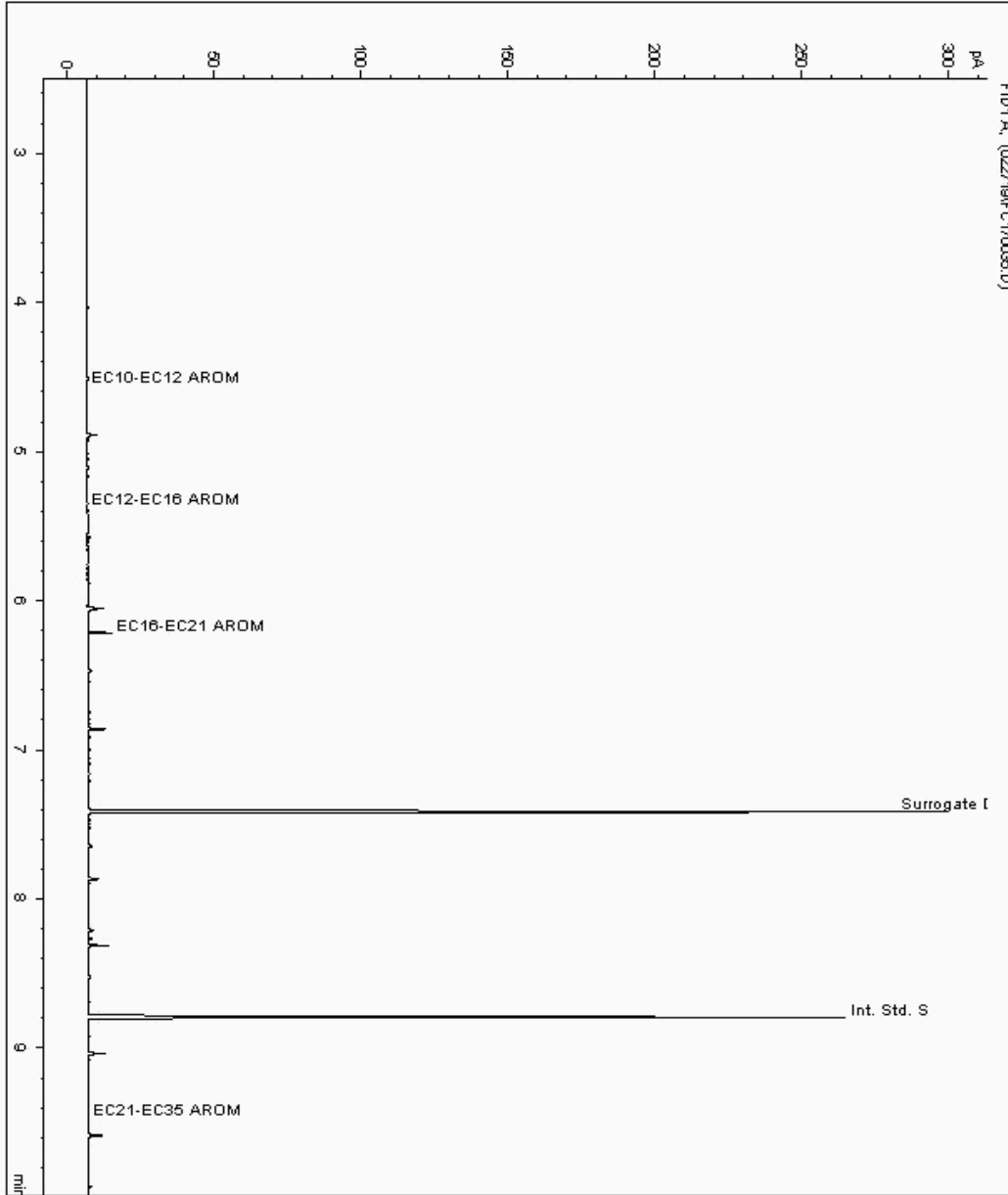
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19432950
Sample ID : BH101

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257490-
Date Acquired : 28/02/2019 03:30:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

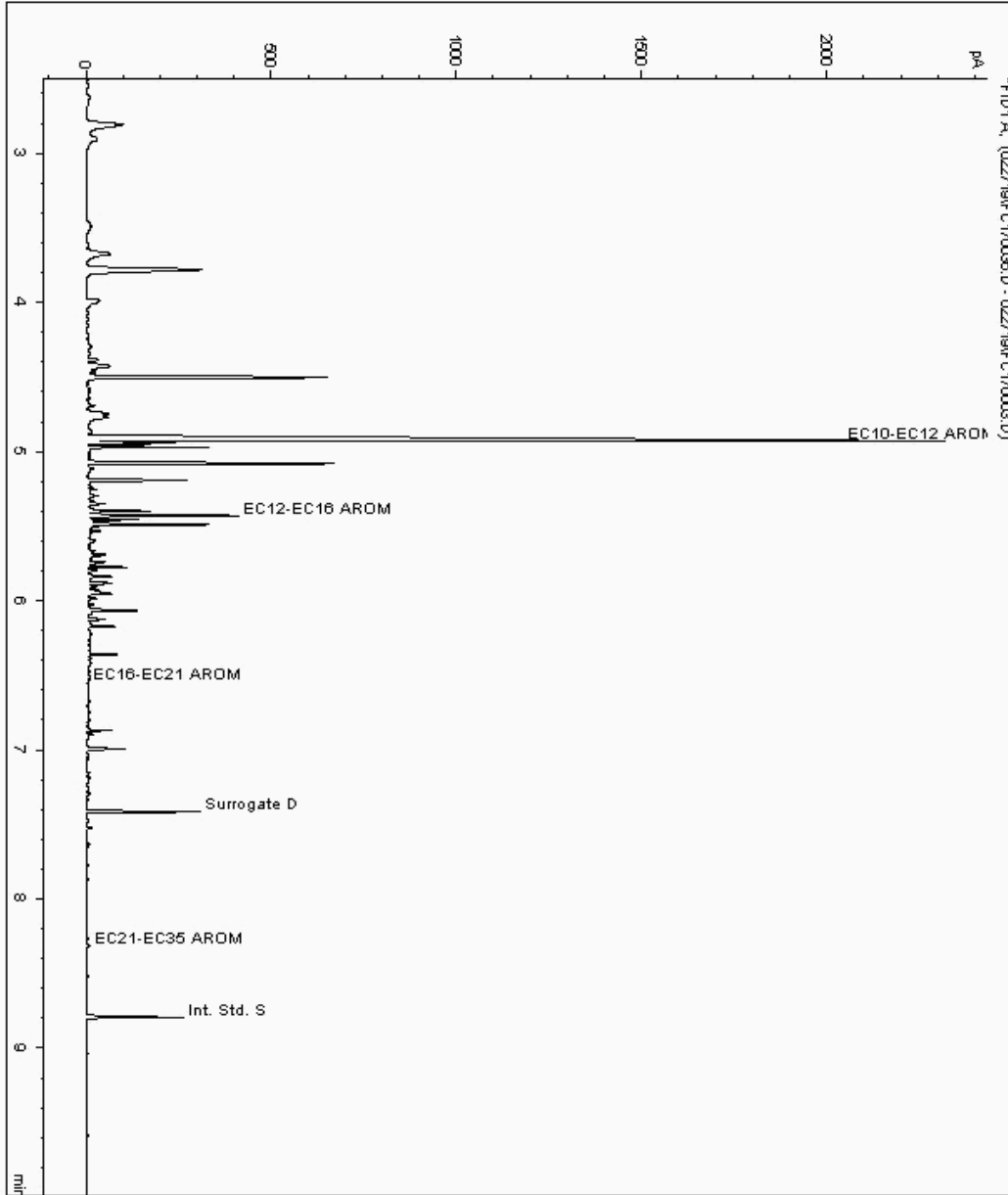
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19432961
Sample ID : TP2

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257470-
Date Acquired : 28/02/2019 03:55:08 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

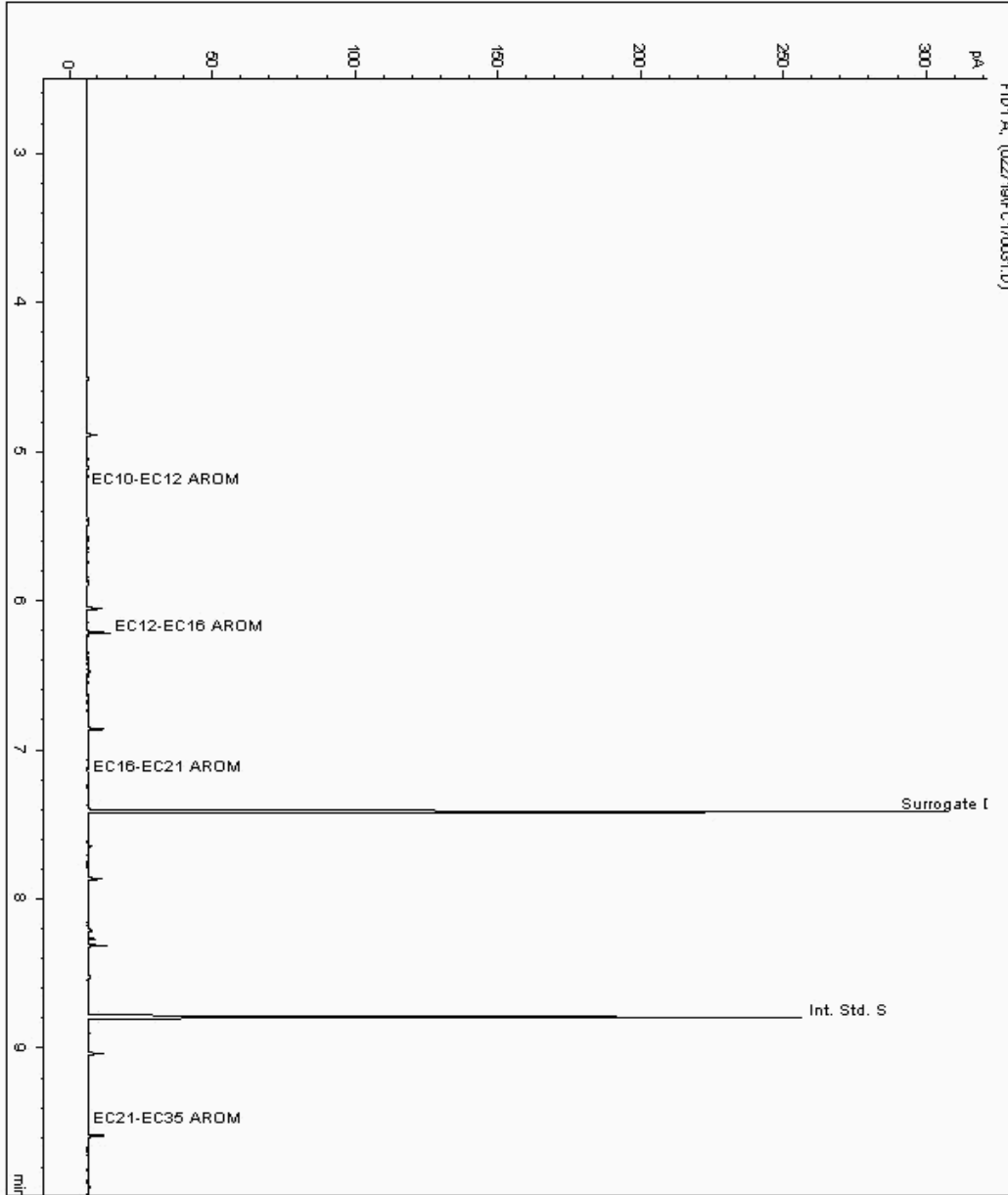
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19432966
Sample ID : BH104

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257533-
Date Acquired : 28/02/2019 02:06:21 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

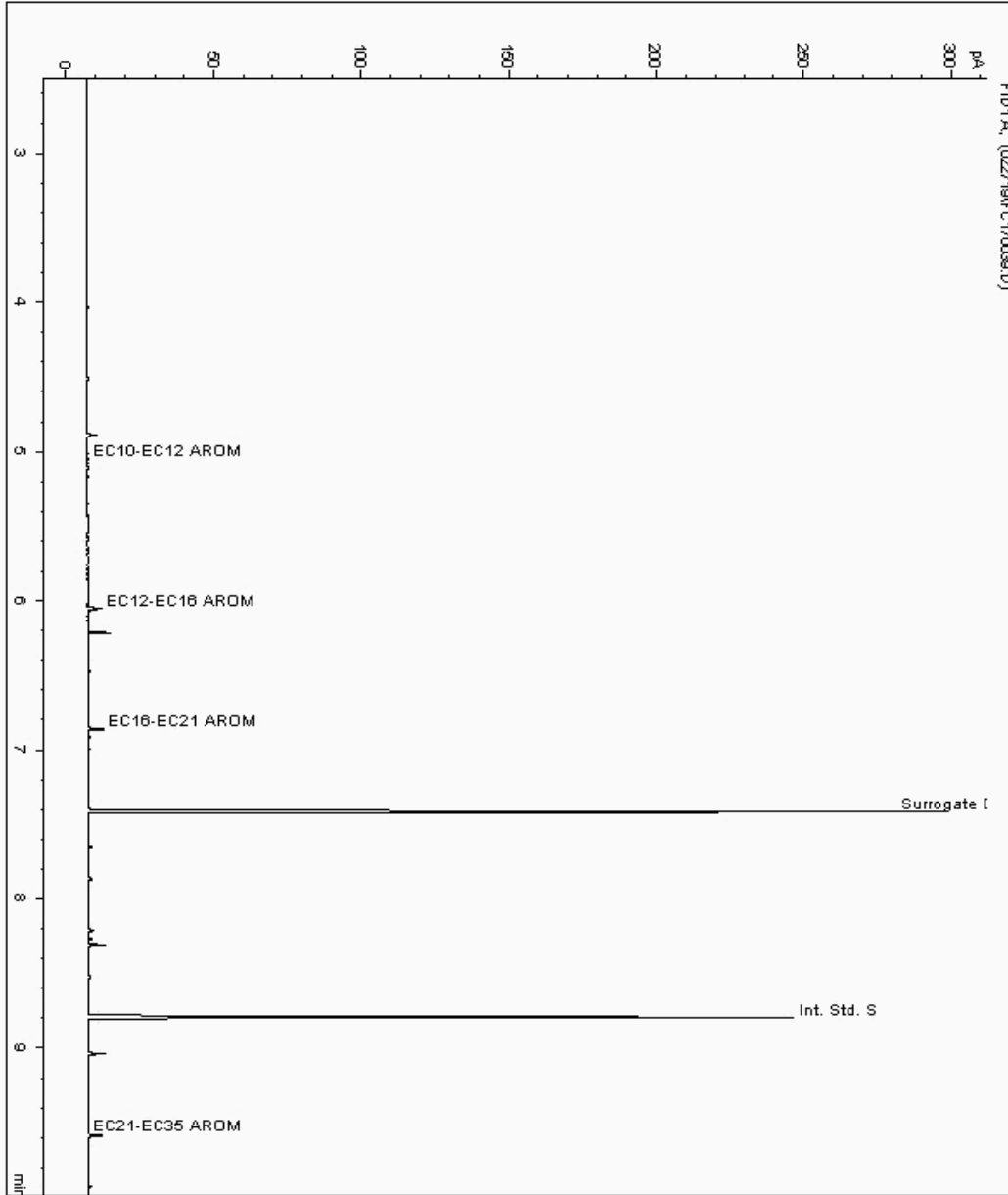
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19432970
Sample ID : BH249

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257617-
Date Acquired : 28/02/2019 05:08:26 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

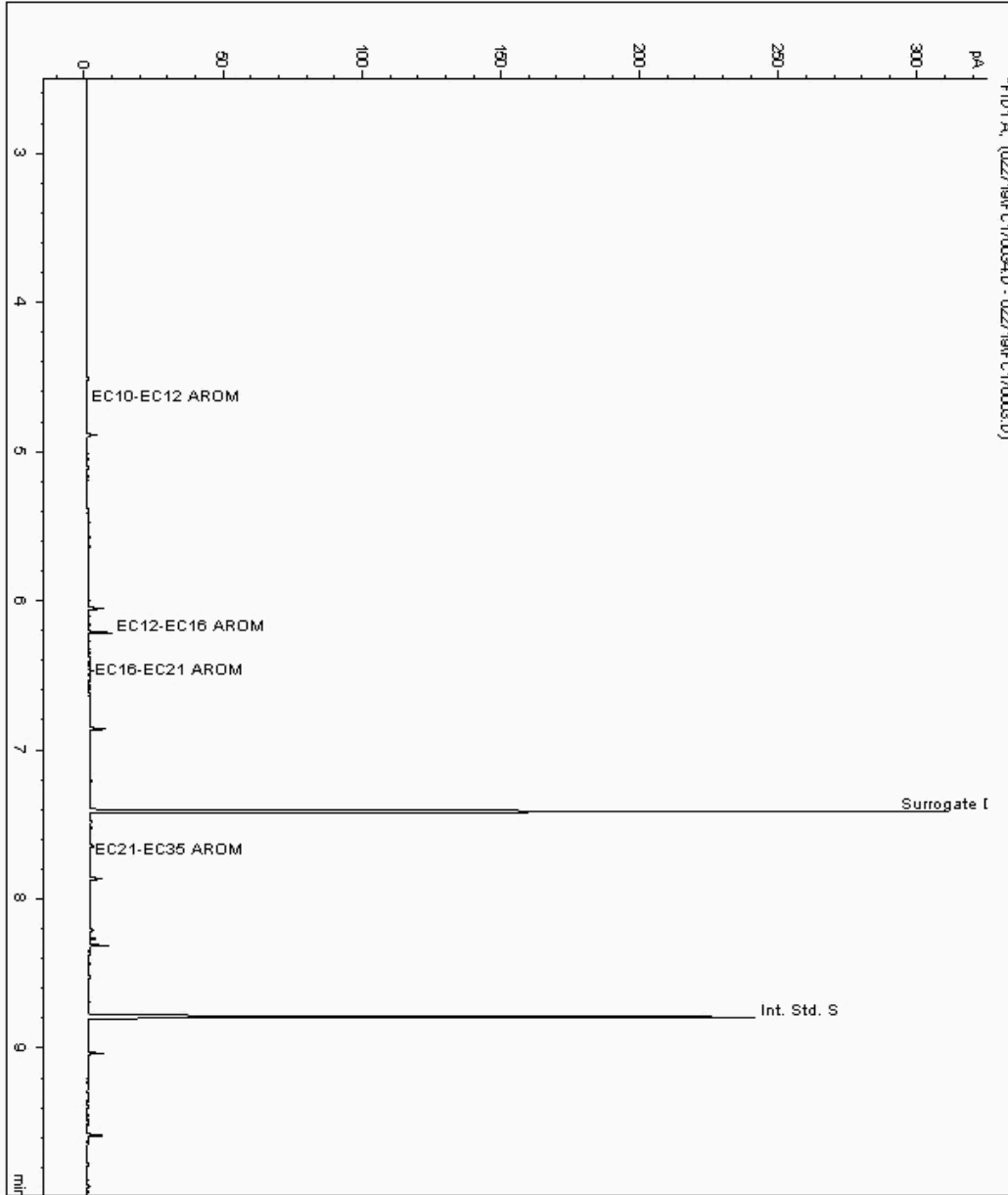
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19432974
Sample ID : WS102

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257510-
Date Acquired : 28/02/2019 03:06:10 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

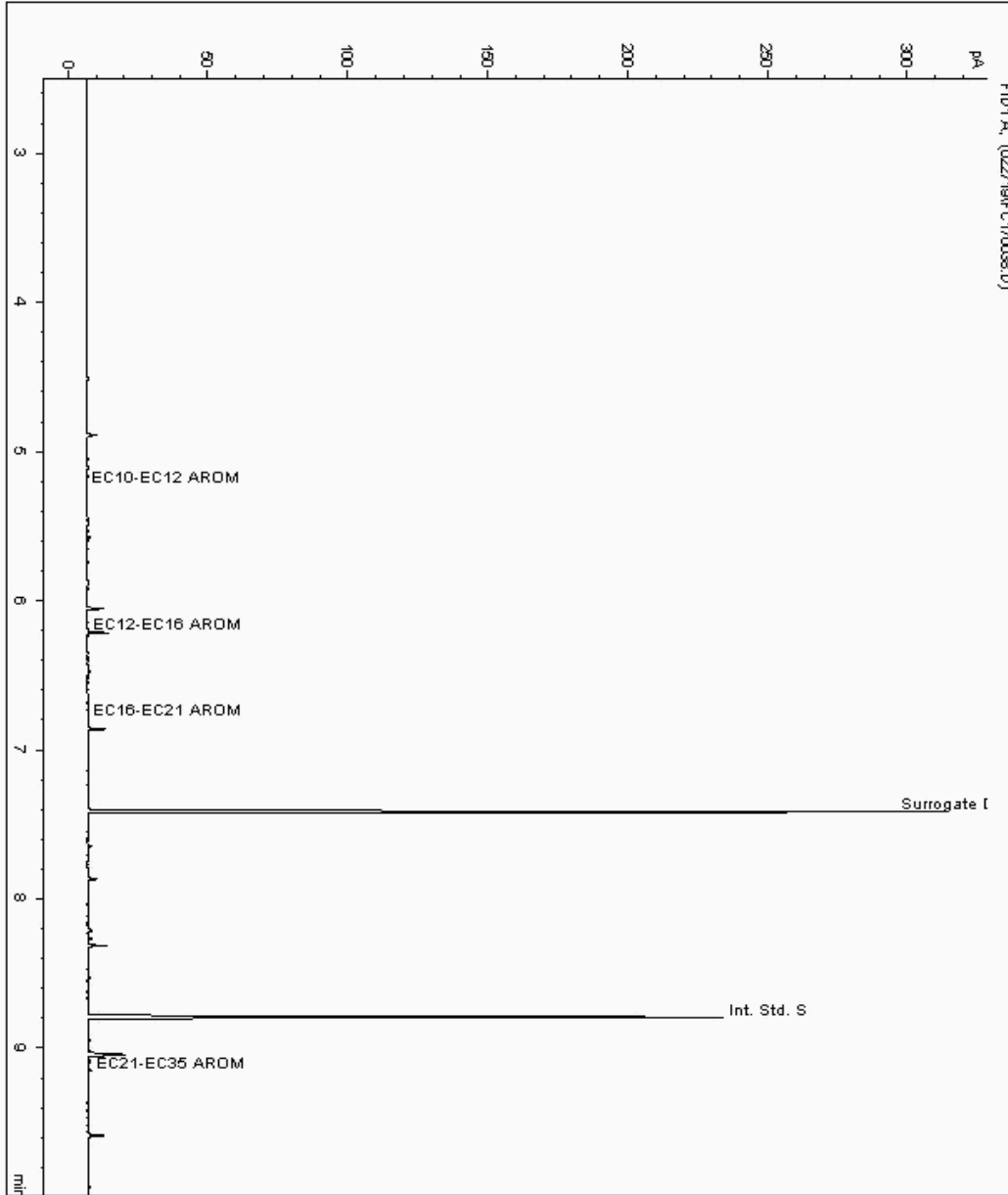
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19432976
Sample ID : BH229

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257553-
Date Acquired : 28/02/2019 04:44:04 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

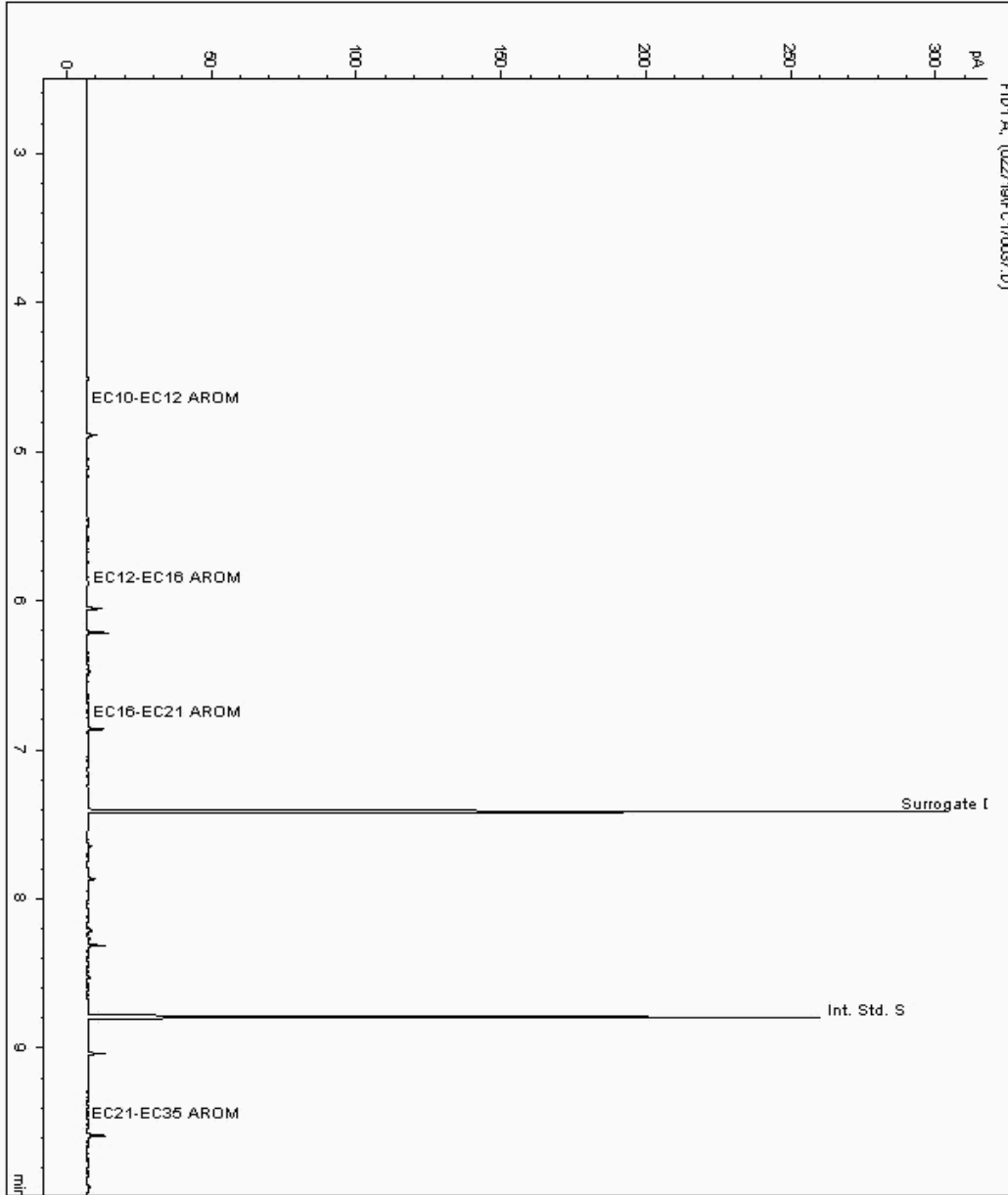
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19432983
Sample ID : BH231

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257574-
Date Acquired : 28/02/2019 04:19:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495888
Superseded Report:

Chromatogram

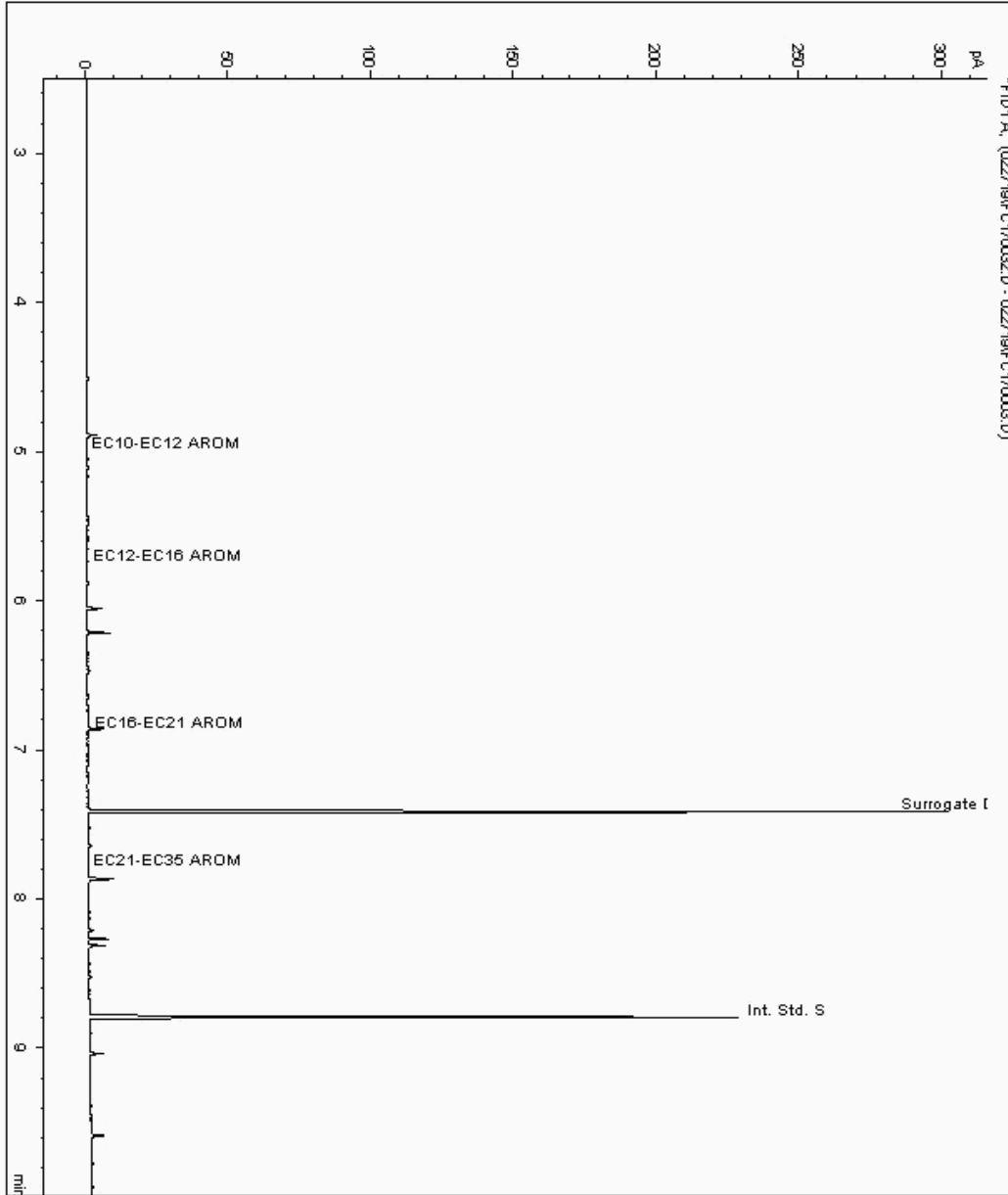
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19433001
Sample ID : BH237

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18257594-
Date Acquired : 28/02/2019 02:30:55 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.500





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

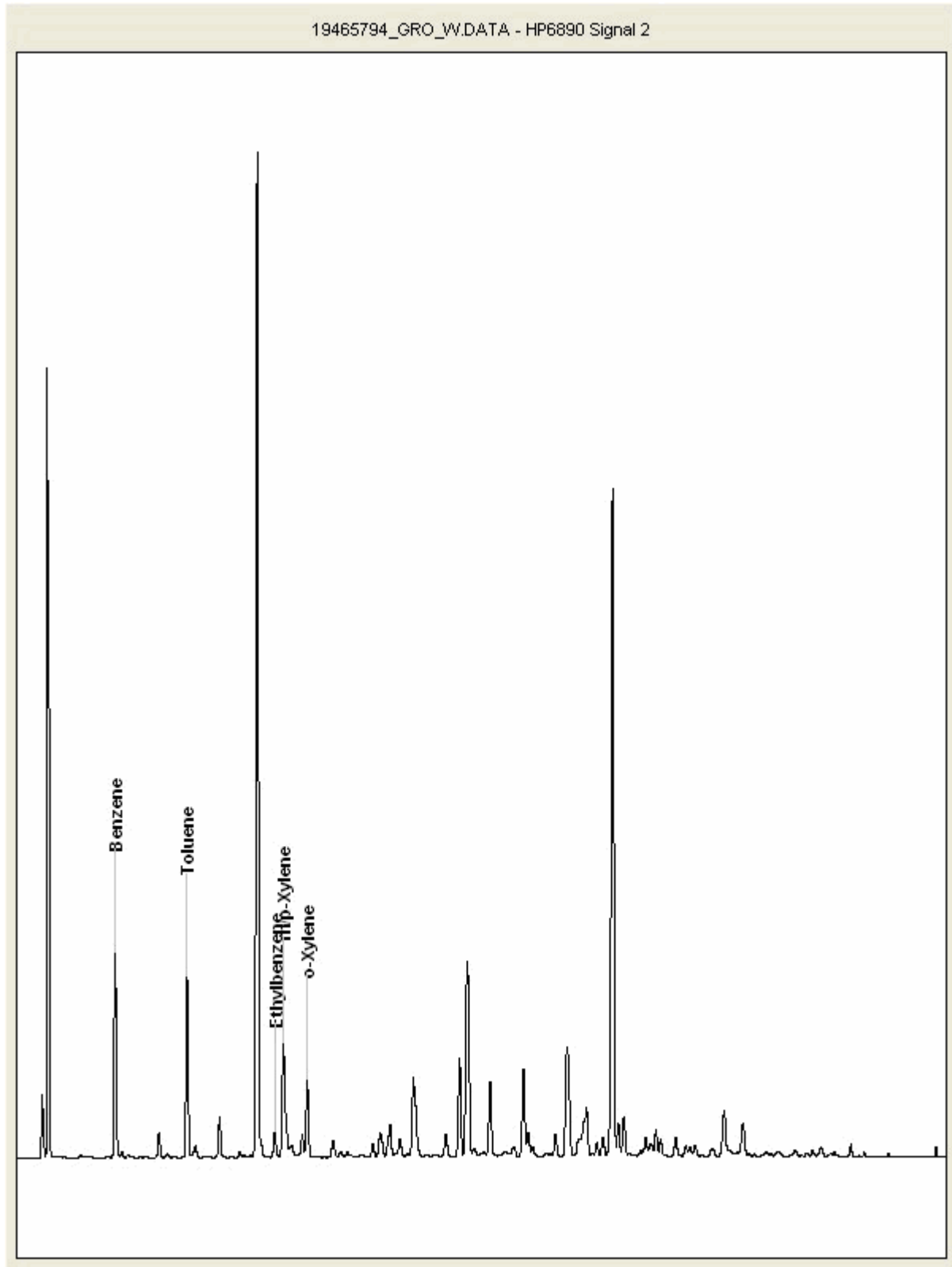
Report Number: 495888
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19465794
Sample ID : TP2

Depth :





CERTIFICATE OF ANALYSIS

Validated

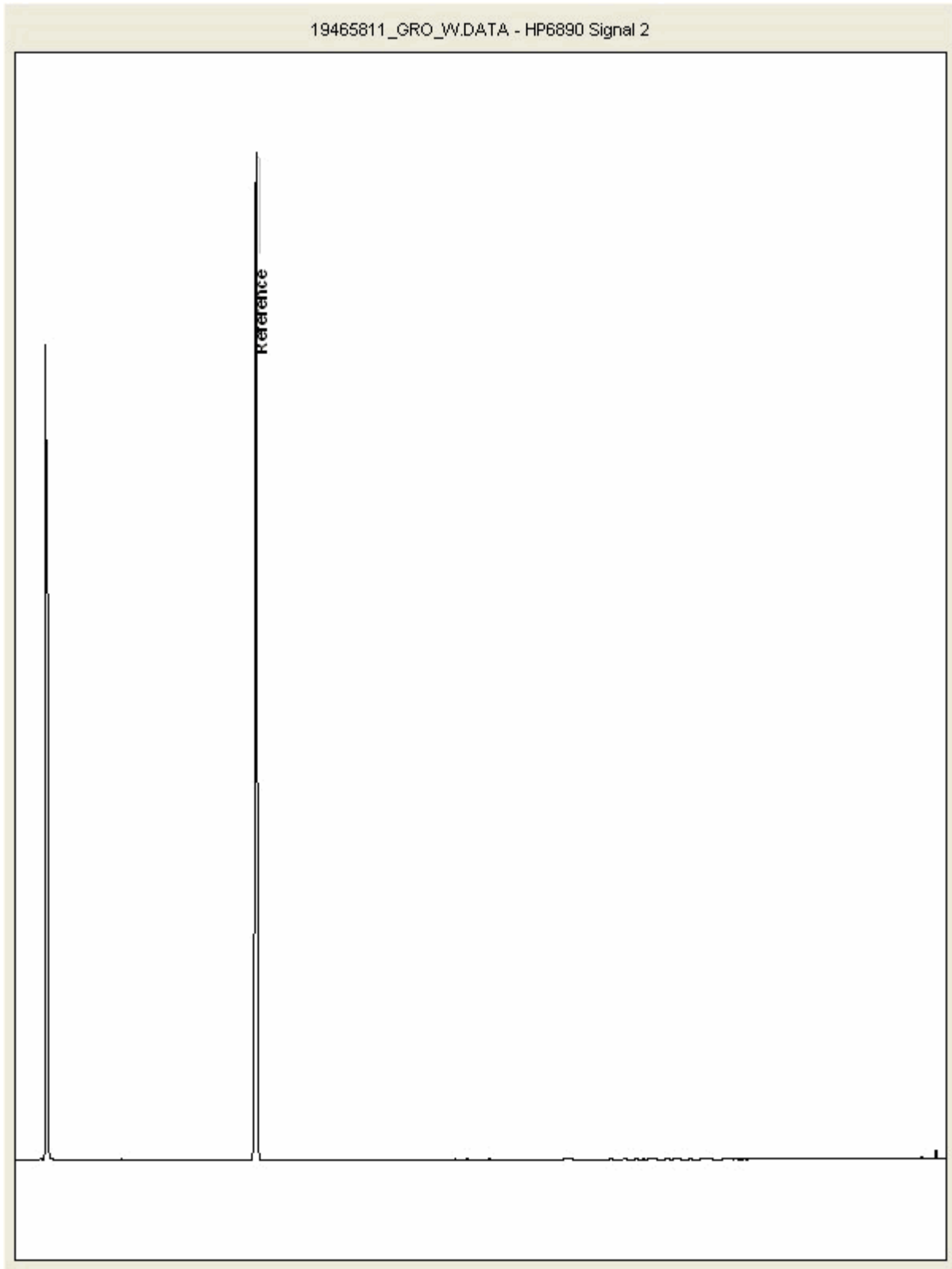
SDG: 190223-89 Client Reference: Report Number: 495888
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19465811
Sample ID : WS102

Depth :





CERTIFICATE OF ANALYSIS

Validated

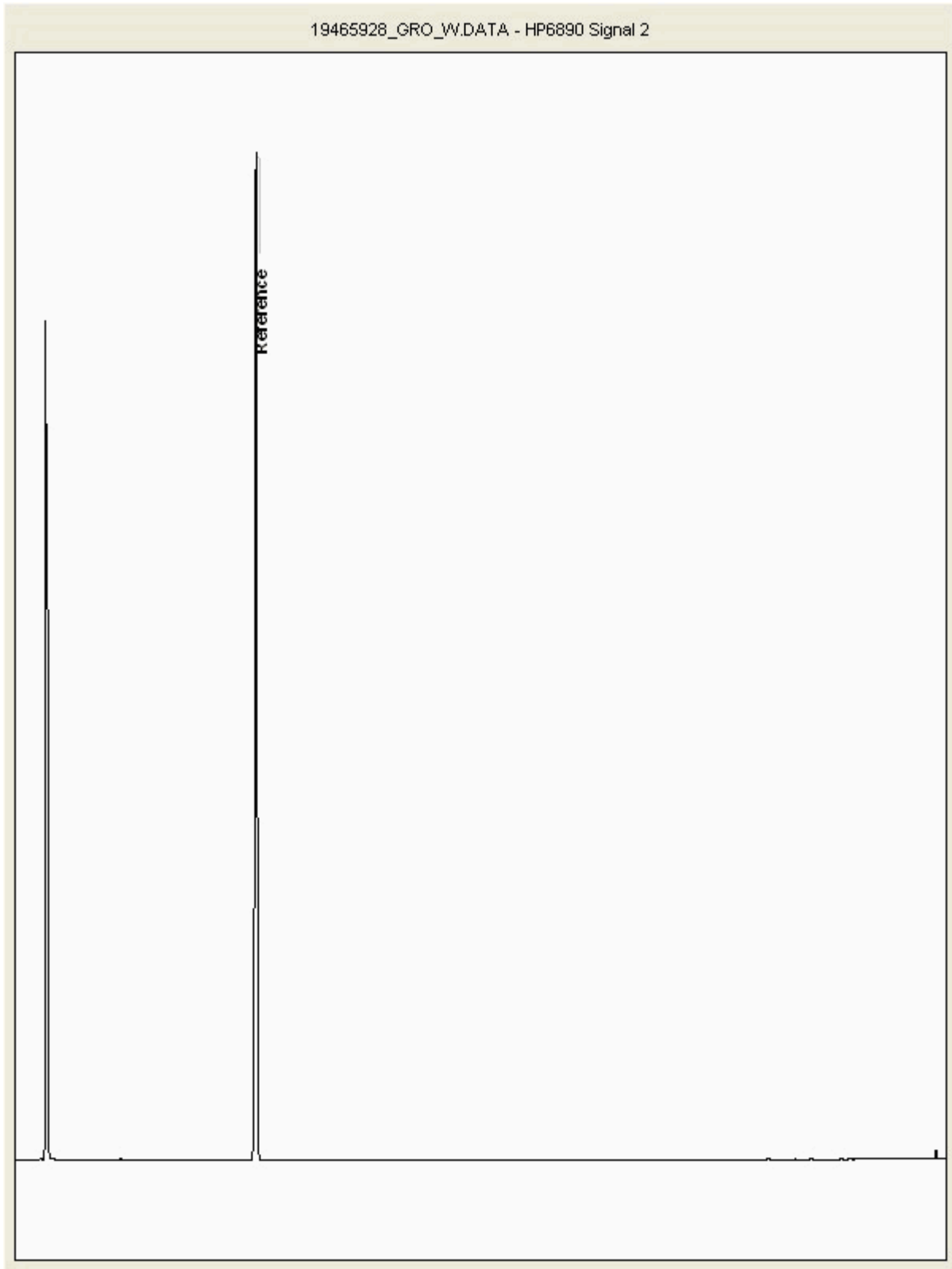
SDG: 190223-89 Client Reference: Report Number: 495888
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19465928
Sample ID : BH101

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

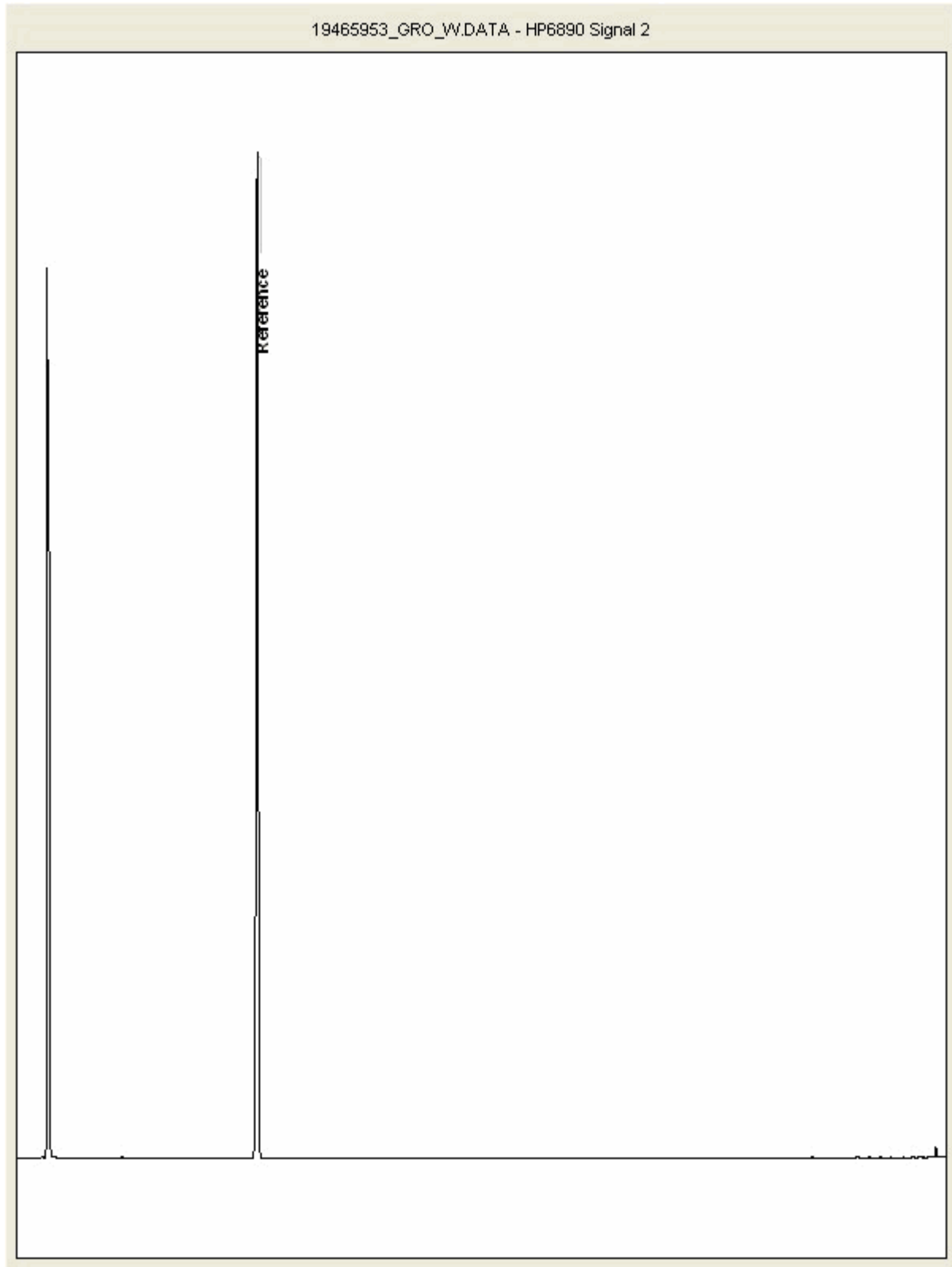
Report Number: 495888
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19465953
Sample ID : BH104

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

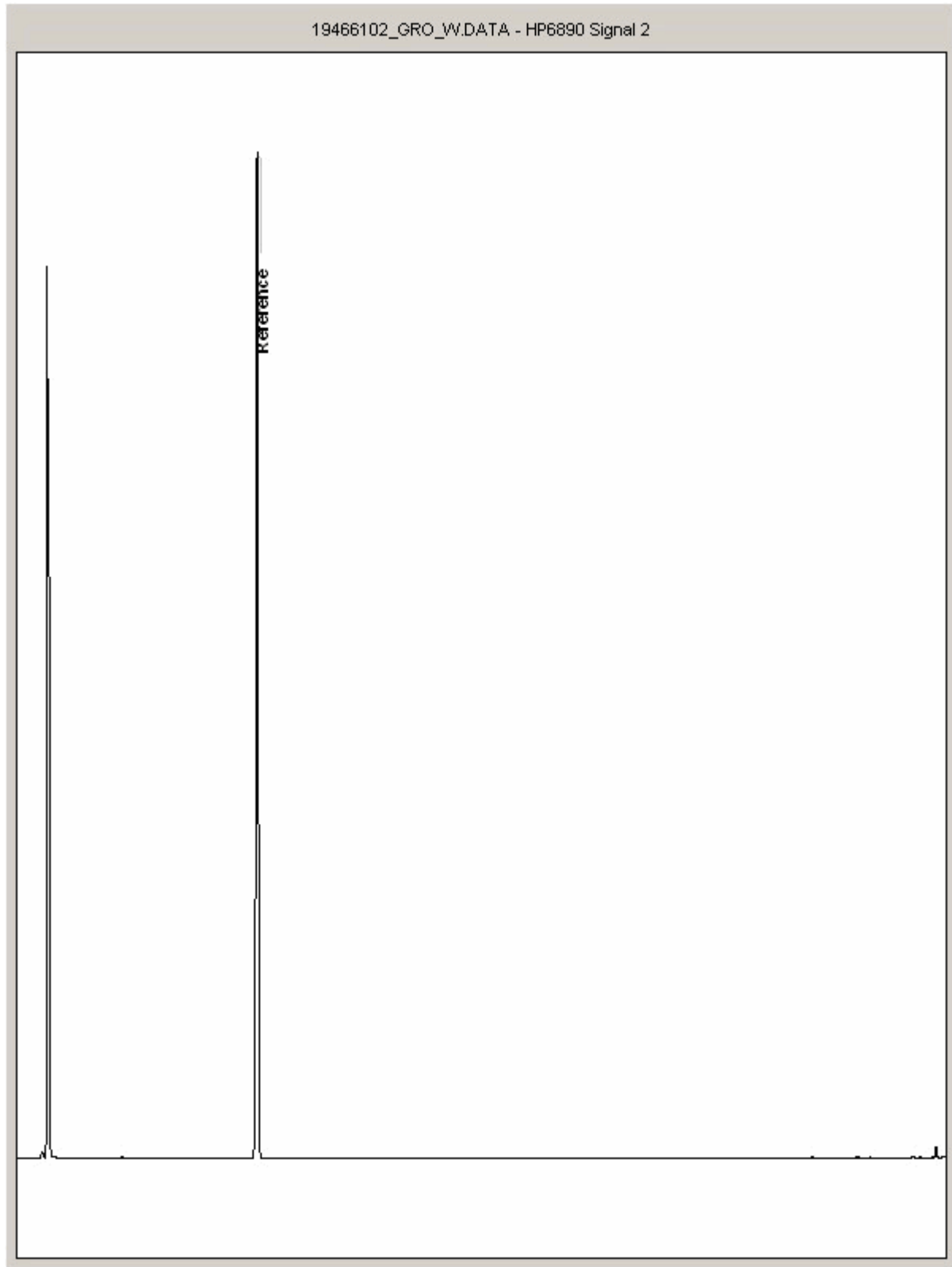
Report Number: 495888
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19466102
Sample ID : BH249

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190223-89
Location: Not Specified

Client Reference:
Order Number: P2021550

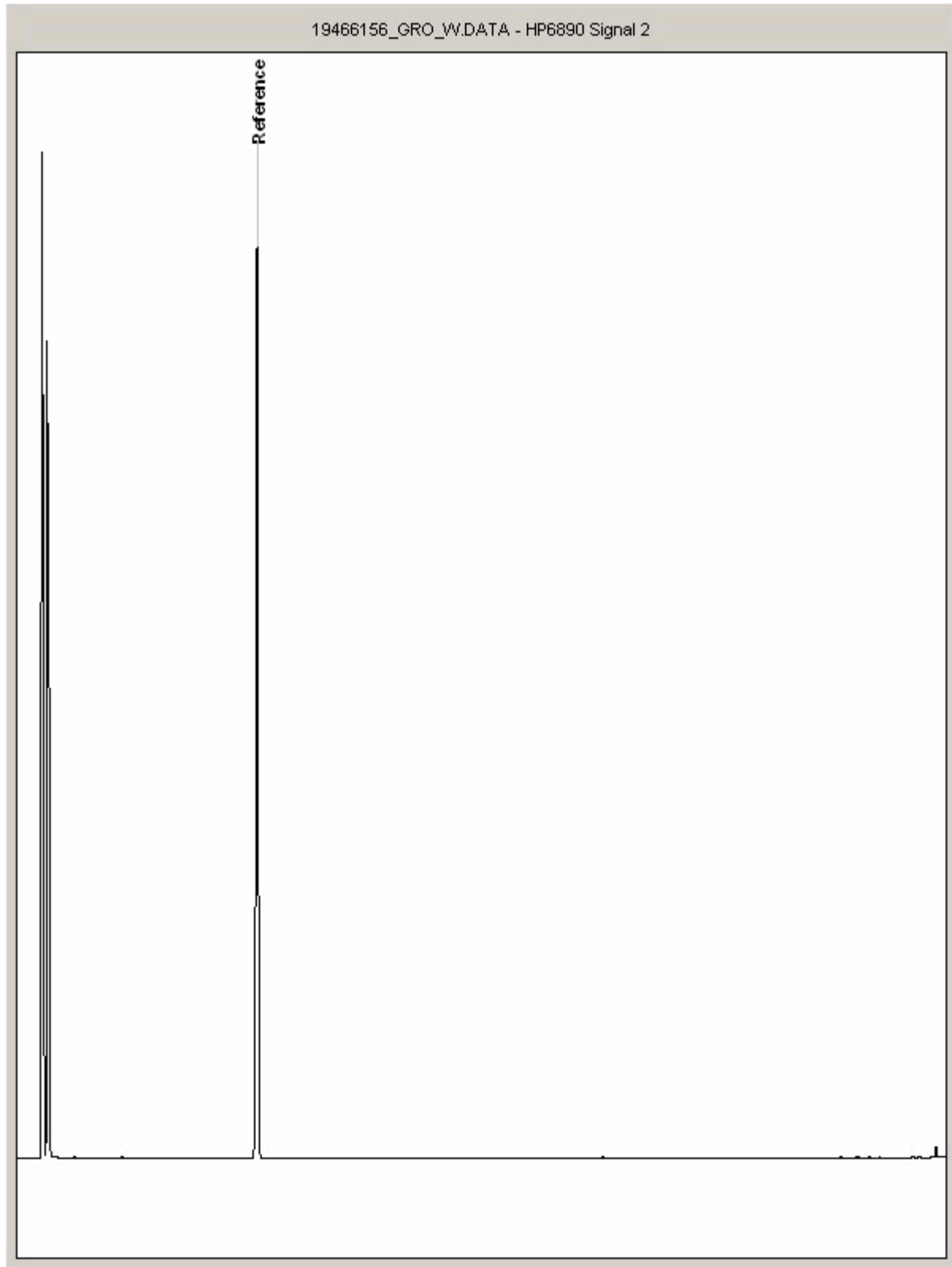
Report Number: 495888
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19466156
Sample ID : BH237

Depth :





CERTIFICATE OF ANALYSIS

Validated

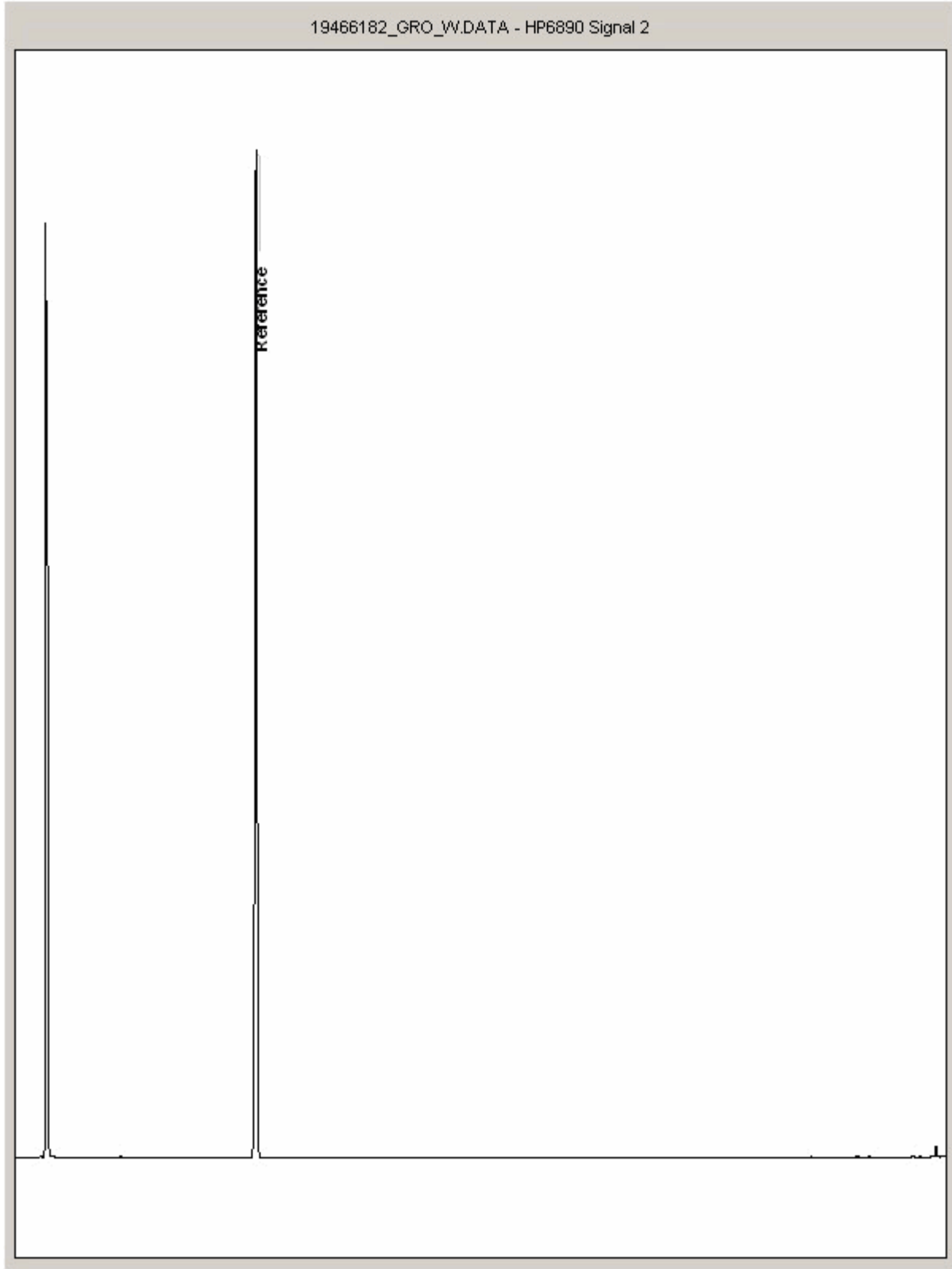
SDG: 190223-89 Client Reference: Report Number: 495888
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19466182
Sample ID : BH229

Depth :





CERTIFICATE OF ANALYSIS

Validated

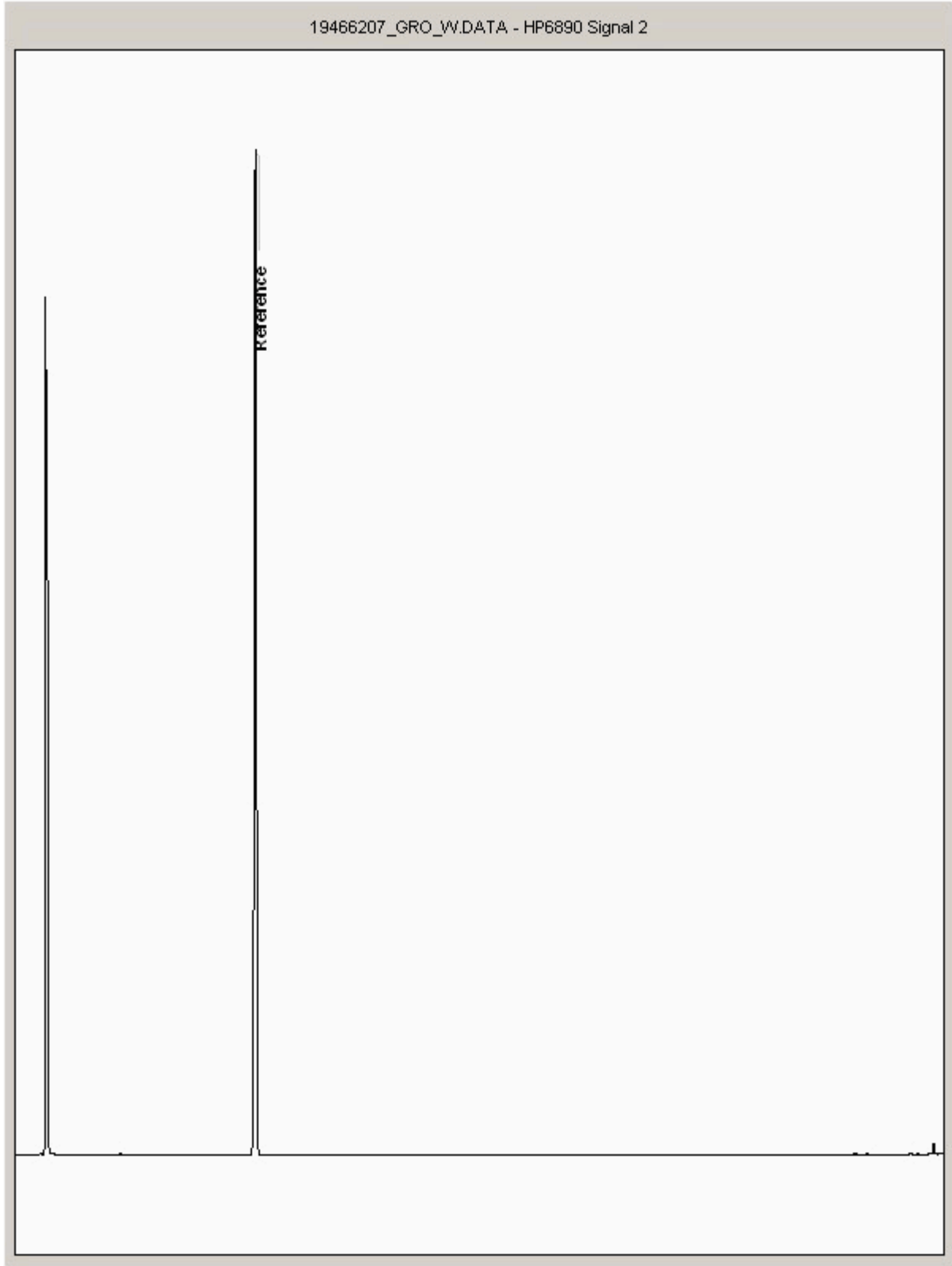
SDG: 190223-89 Client Reference: Report Number: 495888
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19466207
Sample ID : BH231

Depth :





CERTIFICATE OF ANALYSIS

SDG: 190223-89	Client Reference:	Report Number: 495888
Location: Not Specified	Order Number: P2021550	Superseded Report:

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestost Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: Paul Feely

CERTIFICATE OF ANALYSIS

Date of report Generation: 06 March 2019
Customer: D_RSK_DUB
Sample Delivery Group (SDG): 190222-61
Your Reference:
Location: Not Specified
Report No: 495559

We received 10 samples on Friday February 22, 2019 and 10 of these samples were scheduled for analysis which was completed on Wednesday March 06, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61	Client Reference:	Report Number: 495559
Location: Not Specified	Order Number: P2021550	Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
19413675	BH102			21/02/2019
19413676	BH103			21/02/2019
19413677	BH108			20/02/2019
19413679	BH109			20/02/2019
19413682	BH217			20/02/2019
19413683	BH218			19/02/2019
19413684	BH225			21/02/2019
19413678	BH108A			20/02/2019
19413680	BH109A			20/02/2019
19413681	WS114			21/02/2019

Maximum Sample/Coolbox Temperature (°C) : 4.6

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61 **Client Reference:** **Report Number:** 495559
Location: Not Specified **Order Number:** P2021550 **Superseded Report:**

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container		Sample Type
					0.5l glass bottle (ALE227)	500ml Plastic (ALE208)	
	19413675	BH102			Vial (ALE297)	ZnAc (ALE246)	GW
	19413676	BH103			Vial (ALE297)	ZnAc (ALE246)	GW
	19413677	BH108			Vial (ALE297)	ZnAc (ALE246)	GW
	19413679	BH109			Vial (ALE297)	ZnAc (ALE246)	GW
	19413682	BH217			Vial (ALE297)	ZnAc (ALE246)	GW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 10					GW
Anions by Kone (w)	All	NDPs: 0 Tests: 10					GW
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 10					GW
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 10					GW
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 10					GW
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 10					GW
Fluoride	All	NDPs: 0 Tests: 10					GW
GRO by GC-FID (W)	All	NDPs: 0 Tests: 10					GW
Hexavalent Chromium (w)	All	NDPs: 0 Tests: 10					GW
Mercury Dissolved	All	NDPs: 0 Tests: 10					GW
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 10					GW
PCB Congeners - Aqueous (W)	All	NDPs: 0 Tests: 10					GW
Phenols by HPLC (W)	All	NDPs: 0 Tests: 10					GW
Sulphide	All	NDPs: 0 Tests: 10					GW
Suspended Solids	All	NDPs: 0 Tests: 10					GW



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Results Legend			Customer Sample Ref.		BH102	BH103	BH108	BH109	BH217	BH218
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. - Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*\$@ Sample deviation (see appendix)	Depth (m)	Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
	Date Sampled	Date Received	21/02/2019	21/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	19/02/2019
	SDG Ref	SDG Ref	190222-61	190222-61	190222-61	190222-61	190222-61	190222-61	190222-61	190222-61
	Lab Sample No.(s)	Lab Sample No.(s)	19413675	19413676	19413677	19413677	19413679	19413682	19413682	19413683
	AGS Reference	AGS Reference								
Component	LOD/Units	Method								
Suspended solids, Total	<2 mg/l	TM022	7.1 #	10.8 #	85.4 #	2.95 #	6.25 #	6.6 #		
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	0.453 2 #	0.252 2 #	5.74 2 #	3.23 2 #	5.44 2 #	34.5 2 #		
Sulphide	<0.01 mg/l	TM101	<0.01 #	<0.01 #	<0.01 #	0.0584 #	<0.01 #	<0.01 #		
Fluoride	<0.5 mg/l	TM104	<0.5 #	0.835 #	0.906 #	0.919 #	<0.5 #	0.736 #		
Dissolved solids, Total (meter)	<5 mg/l	TM123	1200 #	7700 #	2960 #	2250 #	1800 #	2390 #		
Arsenic (diss.filt)	<0.5 µg/l	TM152	6 2 #	2.26 2 #	4.19 2 #	1.24 2 #	2.8 2 #	22.5 2 #		
Cadmium (diss.filt)	<0.08 µg/l	TM152	0.0888 2 #	0.675 2 #	<0.08 2 #	<0.08 2 #	<0.08 2 #	<0.08 2 #		
Chromium (diss.filt)	<1 µg/l	TM152	1.06 2 #	<1 2 #	<1 2 #	<1 2 #	<1 2 #	<1 2 #		
Copper (diss.filt)	<0.3 µg/l	TM152	1.93 2 #	1.74 2 #	<0.3 2 #	<0.3 2 #	<0.3 2 #	<0.3 2 #		
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2 2 #	<0.2 2 #	0.23 2 #	<0.2 2 #	<0.2 2 #	<0.2 2 #		
Nickel (diss.filt)	<0.4 µg/l	TM152	1.38 2 #	2.82 2 #	1.94 2 #	0.42 2 #	0.725 2 #	1.47 2 #		
Selenium (diss.filt)	<1 µg/l	TM152	2.22 2 #	<1 2 #	<1 2 #	<1 2 #	<1 2 #	<1 2 #		
Zinc (diss.filt)	<1 µg/l	TM152	4.83 2 #	8.06 2 #	1.08 2 #	<1 2 #	1.33 2 #	1.44 2 #		
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 2 #	<0.01 2 #	<0.01 2 #	<0.01 2 #	<0.01 2 #	<0.01 2 #		
Sulphate	<2 mg/l	TM184	115 #	489 #	256 #	289 #	377 #	105 #		
Chloride	<2 mg/l	TM184	383 #	3390 #	1150 #	736 #	27.4 #	622 #		
PCB congener 28	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		
PCB congener 52	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		
PCB congener 101	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		
PCB congener 118	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		
PCB congener 138	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		
PCB congener 153	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		
PCB congener 180	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105		
Cyanide, Total	<0.05 mg/l	TM227	<0.05 2 #	<0.05 2 #	<0.05 2 #	<0.05 2 #	<0.05 2 #	<0.05 2 #		
Chromium, Hexavalent	<0.03 mg/l	TM241	<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03 #		
Phenol	<0.002 mg/l	TM259	<0.002 2 #	<0.002 2 #	<0.002 2 #	<0.002 2 #	<0.002 2 #	<0.002 2 #		
Cresols	<0.006 mg/l	TM259	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006 2 #		
Xylenols	<0.008 mg/l	TM259	<0.008 2 #	<0.008 2 #	<0.008 2 #	<0.008 2 #	<0.008 2 #	<0.008 2 #		
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003 2 #	<0.003 2 #	<0.003 2 #	<0.003 2 #	<0.003 2 #	<0.003 2 #		
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006 2 #		
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	<0.025 2	<0.025 2	<0.025 2	<0.025 2	<0.025 2	<0.025 2		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Results Legend			Customer Sample Ref.			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*\$@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH225	BH108A	BH109A	WS114	
		Ground Water (GW) 21/02/2019	Ground Water (GW) 20/02/2019	Ground Water (GW) 20/02/2019	Ground Water (GW) 21/02/2019	
		22/02/2019 190222-61 19413684	22/02/2019 190222-61 19413678	22/02/2019 190222-61 19413680	22/02/2019 190222-61 19413681	
Component	LOD/Units	Method				
Suspended solids, Total	<2 mg/l	TM022	8.95 #	3.4 #	68.2 #	48.1 #
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	45.2 2 #	1.04 2 #	7.32 2 #	1.73 2 #
Sulphide	<0.01 mg/l	TM101	<0.01 #	0.0796 #	0.896 #	<0.01 #
Fluoride	<0.5 mg/l	TM104	0.658 #	0.847 #	0.78 #	<0.5 #
Dissolved solids, Total (meter)	<5 mg/l	TM123	2440 #	5410 #	3440 #	808 #
Arsenic (diss.filt)	<0.5 µg/l	TM152	44.2 2 #	3.66 2 #	3.72 2 #	2.58 2 #
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 2 #	<0.08 2 #	<0.08 2 #	<0.08 2 #
Chromium (diss.filt)	<1 µg/l	TM152	1.83 2 #	<1 2 #	<1 2 #	<1 2 #
Copper (diss.filt)	<0.3 µg/l	TM152	<0.3 2 #	<0.3 2 #	1.21 2 #	<0.3 2 #
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2 2 #	<0.2 2 #	<0.2 2 #	<0.2 2 #
Nickel (diss.filt)	<0.4 µg/l	TM152	1.6 2 #	1.84 2 #	16.9 2 #	4.29 2 #
Selenium (diss.filt)	<1 µg/l	TM152	<1 2 #	<1 2 #	<1 2 #	<1 2 #
Zinc (diss.filt)	<1 µg/l	TM152	1.3 2 #	1.2 2 #	1.13 2 #	9.35 2 #
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 2 #	<0.01 2 #	<0.01 2 #	<0.01 2 #
Sulphate	<2 mg/l	TM184	45 #	380 #	304 #	353 #
Chloride	<2 mg/l	TM184	498 #	2240 #	1440 #	15.1 #
PCB congener 28	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015
PCB congener 52	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015
PCB congener 101	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015
PCB congener 118	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015
PCB congener 138	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015
PCB congener 153	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015
PCB congener 180	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105	<0.105	<0.105	<0.105
Cyanide, Total	<0.05 mg/l	TM227	<0.05 2 #	<0.05 2 #	<0.05 2 #	<0.05 2 #
Chromium, Hexavalent	<0.03 mg/l	TM241	<0.03 #	<0.03 #	<0.03 #	<0.03 #
Phenol	<0.002 mg/l	TM259	<0.002 2 #	<0.002 2 #	0.1 2 #	<0.002 2 #
Cresols	<0.006 mg/l	TM259	<0.006 2 #	<0.006 2 #	0.01 2 #	<0.006 2 #
Xylenols	<0.008 mg/l	TM259	<0.008 2 #	<0.008 2 #	<0.008 2 #	<0.008 2 #
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003 2 #	<0.003 2 #	<0.003 2 #	<0.003 2 #
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006 2 #
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	<0.025 2	<0.025 2	0.11 2	<0.025 2



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

PAH Spec MS - Aqueous (W)

Results Legend			Customer Sample Ref.	BH102	BH103	BH108	BH109	BH217	BH218	
#	ISO17025 accredited.									
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-3*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	Sample Type	Date Sampled	Sampled Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
Naphthalene (aq)	<0.01 µg/l	TM178		Ground Water (GW)	21/02/2019				19413675	
Acenaphthene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	21/02/2019				19413676	
Acenaphthylene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	20/02/2019				19413677	
Fluoranthene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	20/02/2019				19413679	
Anthracene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Phenanthrene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Fluorene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Chrysene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Pyrene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178		Ground Water (GW)	22/02/2019				190222-61	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
 Location: Not Specified

Client Reference:
 Order Number: P2021550

Report Number: 495559
 Superseded Report:

PAH Spec MS - Aqueous (W)

Results Legend		Customer Sample Ref.	BH225	BH108A	BH109A	WS114				
#	ISO17025 accredited.									
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-3*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	Sample Type	Date Sampled	Sampled Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
Naphthalene (aq)	<0.01 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413684	
Acenaphthene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	20/02/2019	20/02/2019			190222-61	19413678	
Acenaphthylene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	20/02/2019	20/02/2019			190222-61	19413680	
Fluoranthene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Anthracene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Phenanthrene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Fluorene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Chrysene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Pyrene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	Ground Water (GW)	21/02/2019	21/02/2019			190222-61	19413681	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH102	BH103	BH108	BH109	BH217	BH218
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 21/02/2019	Ground Water (GW) 21/02/2019	Ground Water (GW) 20/02/2019	Ground Water (GW) 20/02/2019	Ground Water (GW) 20/02/2019	Ground Water (GW) 19/02/2019
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Acenaphthylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Acenaphthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH102	BH103	BH108	BH109	BH217	BH218
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 21/02/2019 190222-61 19413675	Ground Water (GW) 21/02/2019 190222-61 19413676	Ground Water (GW) 20/02/2019 190222-61 19413677	Ground Water (GW) 20/02/2019 190222-61 19413679	Ground Water (GW) 20/02/2019 190222-61 19413682	Ground Water (GW) 19/02/2019 190222-61 19413683
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Carbazole (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chrysene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibenzofuran (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Diethyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Fluorene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Pentachlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Phenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Hexachloroethane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Nitrobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Naphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Isophorone (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Phenanthrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH225	BH108A	BH109A	WS114		
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*\$@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 21/02/2019 22/02/2019 190222-61 19413684	Ground Water (GW) 20/02/2019 22/02/2019 190222-61 19413678	Ground Water (GW) 20/02/2019 22/02/2019 190222-61 19413680	Ground Water (GW) 21/02/2019 22/02/2019 190222-61 19413681		
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
Acenaphthylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
Acenaphthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
Anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #	<2 #	<2 #		
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH225	BH108A	BH109A	WS114
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 21/02/2019 190222-61 19413684	Ground Water (GW) 20/02/2019 190222-61 19413678	Ground Water (GW) 20/02/2019 190222-61 19413680	Ground Water (GW) 21/02/2019 190222-61 19413681
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						
(F)	Trigger breach confirmed						
1-3*\$@	Sample deviation (see appendix)						
Component	LOD/Units	Method					
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Carbazole (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Chrysene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Dibenzofuran (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Diethyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5 #	<5 #	<5 #	<5 #	
Fluoranthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Fluorene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Pentachlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Phenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Hexachloroethane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Nitrobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Naphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Isophorone (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Phenanthrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	
Pyrene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

TPH CWG (W)

Results Legend			Customer Sample Ref.	BH102	BH103	BH108	BH109	BH217	BH218
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*@\$@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 21/02/2019	Ground Water (GW) 21/02/2019	Ground Water (GW) 20/02/2019	Ground Water (GW) 20/02/2019	Ground Water (GW) 20/02/2019	Ground Water (GW) 19/02/2019
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM245	93	100	91	97	98	93	
GRO >C5-C12	<50 µg/l	TM245	<50	<50	<50	<50	<50	<50	
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	
Benzene	<7 µg/l	TM245	<7	<7	<7	<7	<7	<7	
Toluene	<4 µg/l	TM245	<4	<4	<4	<4	<4	<4	
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5	<5	<5	<5	
m,p-Xylene	<8 µg/l	TM245	<8	<8	<8	<8	<8	<8	
o-Xylene	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11	<11	<11	
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28	<28	<28	
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

TPH CWG (W)

Results Legend		Customer Sample Ref.	BH225	BH108A	BH109A	WS114		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-3*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
GRO Surrogate % recovery**	%	TM245	91	92	96	91		
GRO >C5-C12	<50 µg/l	TM245	<50 #	<50 #	<50 #	<50 #		
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	<3		
Benzene	<7 µg/l	TM245	<7	<7	<7	<7		
Toluene	<4 µg/l	TM245	<4	<4	<4	<4		
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5	<5		
m,p-Xylene	<8 µg/l	TM245	<8	<8	<8	<8		
o-Xylene	<3 µg/l	TM245	<3	<3	<3	<3		
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11		
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28		
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10		
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10		
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10		
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10		
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10		
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10		
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10		
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<10	<10	<10	<10		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.		BH102	BH103	BH108	BH109	BH217	BH218
#	ISO17025 accredited.		Depth (m)	Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				21/02/2019	21/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	19/02/2019
aq	Aqueous / settled sample.		Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
diss.filt	Dissolved / filtered sample.		Sampled Time	Sampled Time	Sampled Time	Sampled Time	Sampled Time	Sampled Time	Sampled Time	Sampled Time
tot.unfilt	Total / unfiltered sample.		Date Received	Date Received	Date Received	Date Received	Date Received	Date Received	Date Received	Date Received
*	Subcontracted test.		SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)
(F)	Trigger breach confirmed		AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference
1-3*@\$	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208	117	120	114	115	116	120		
Toluene-d8**	%	TM208	97.7	98.5	97.5	99.3	98.7	98.4		
4-Bromofluorobenzene**	%	TM208	94	93.1	95.1	94	94.6	92.9		
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Chloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Bromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Chloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	<3	<3	<3		
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Chloroform	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Benzene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Toluene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.	BH102	BH103	BH108	BH109	BH217	BH218	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	
M	mCERTS accredited.			21/02/2019	21/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	19/02/2019
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-3*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.	BH225	BH108A	BH109A	WS114		
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*\$@	Sample deviation (see appendix)								
			Depth (m)						
			Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)		
			Date Sampled	21/02/2019	20/02/2019	20/02/2019	21/02/2019		
			Sampled Time						
			Date Received	22/02/2019	22/02/2019	22/02/2019	22/02/2019		
			SDG Ref	190222-61	190222-61	190222-61	190222-61		
			Lab Sample No.(s)	19413684	19413678	19413680	19413681		
			AGS Reference						
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208	117	115	109	116			
Toluene-d8**	%	TM208	98.4	98.6	95.5	98.7			
4-Bromofluorobenzene**	%	TM208	94.6	95.9	94.1	93.7			
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1			
Chloromethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Bromomethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Chloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	<3	#	#	#
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Chloroform	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Benzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
Toluene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#	#



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	BH225	BH108A	BH109A	WS114		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 21/02/2019 22/02/2019 190222-61 19413684	Ground Water (GW) 20/02/2019 22/02/2019 190222-61 19413678	Ground Water (GW) 20/02/2019 22/02/2019 190222-61 19413680	Ground Water (GW) 21/02/2019 22/02/2019 190222-61 19413681		
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-3*\$@	Sample deviation (see appendix)							
Component	LOD/Units						Method	
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #		



CERTIFICATE OF ANALYSIS

Validated

SDG:	190222-61	Client Reference:		Report Number:	495559
Location:	Not Specified	Order Number:	P2021550	Superseded Report:	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Table of Results - Appendix

Method No	Reference	Description
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM101	Method 4500B & C, AWWA/APHA, 20th Ed., 1999	Determination of Sulphide in soil and water samples using the Kone Analyser
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM197	Modified: US EPA Method 8082.EA Method 174 and 5109631	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Waters
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM241	Methods for the Examination of Waters and Associated Materials; Chromium in Raw and Potable Waters and Sewage Effluents 1980.	The Determination of Hexavalent Chromium in Waters and Leachates using the Kone Analyser
TM245	By GC-FID	Determination of GRO by Headspace in waters
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	19413675	19413676	19413677	19413679	19413682	19413683	19413684	19413678	19413680	19413681
	BH102	BH103	BH108	BH109	BH217	BH218	BH225	BH108A	BH109A	WS114
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
Anions by Kone (w)	26-Feb-2019	26-Feb-2019	26-Feb-2019	27-Feb-2019	26-Feb-2019	26-Feb-2019	27-Feb-2019	26-Feb-2019	27-Feb-2019	27-Feb-2019
Cyanide Comp/Free/Total/Thiocyanate	27-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	27-Feb-2019	27-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019
Dissolved Metals by ICP-MS	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
EPH CWG (Aliphatic) Aqueous GC (W)	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019
EPH CWG (Aromatic) Aqueous GC (W)	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019
Fluoride	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019
GRO by GC-FID (W)	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
Hexavalent Chromium (w)	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
Mercury Dissolved	27-Feb-2019	01-Mar-2019	27-Feb-2019	01-Mar-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	01-Mar-2019	27-Feb-2019
PAH Spec MS - Aqueous (W)	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019
PCB Congeners - Aqueous (W)	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
Phenols by HPLC (W)	06-Mar-2019	06-Mar-2019	06-Mar-2019	05-Mar-2019	05-Mar-2019	05-Mar-2019	06-Mar-2019	06-Mar-2019	05-Mar-2019	05-Mar-2019
Sulphide	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
Suspended Solids	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019
SVOC MS (W) - Aqueous	01-Mar-2019	01-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	01-Mar-2019	01-Mar-2019	04-Mar-2019	04-Mar-2019	01-Mar-2019
Total Dissolved Solids	26-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	26-Feb-2019	26-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019
TPH CWG (W)	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019
VOC MS (W)	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019	01-Mar-2019



CERTIFICATE OF ANALYSIS

Validated

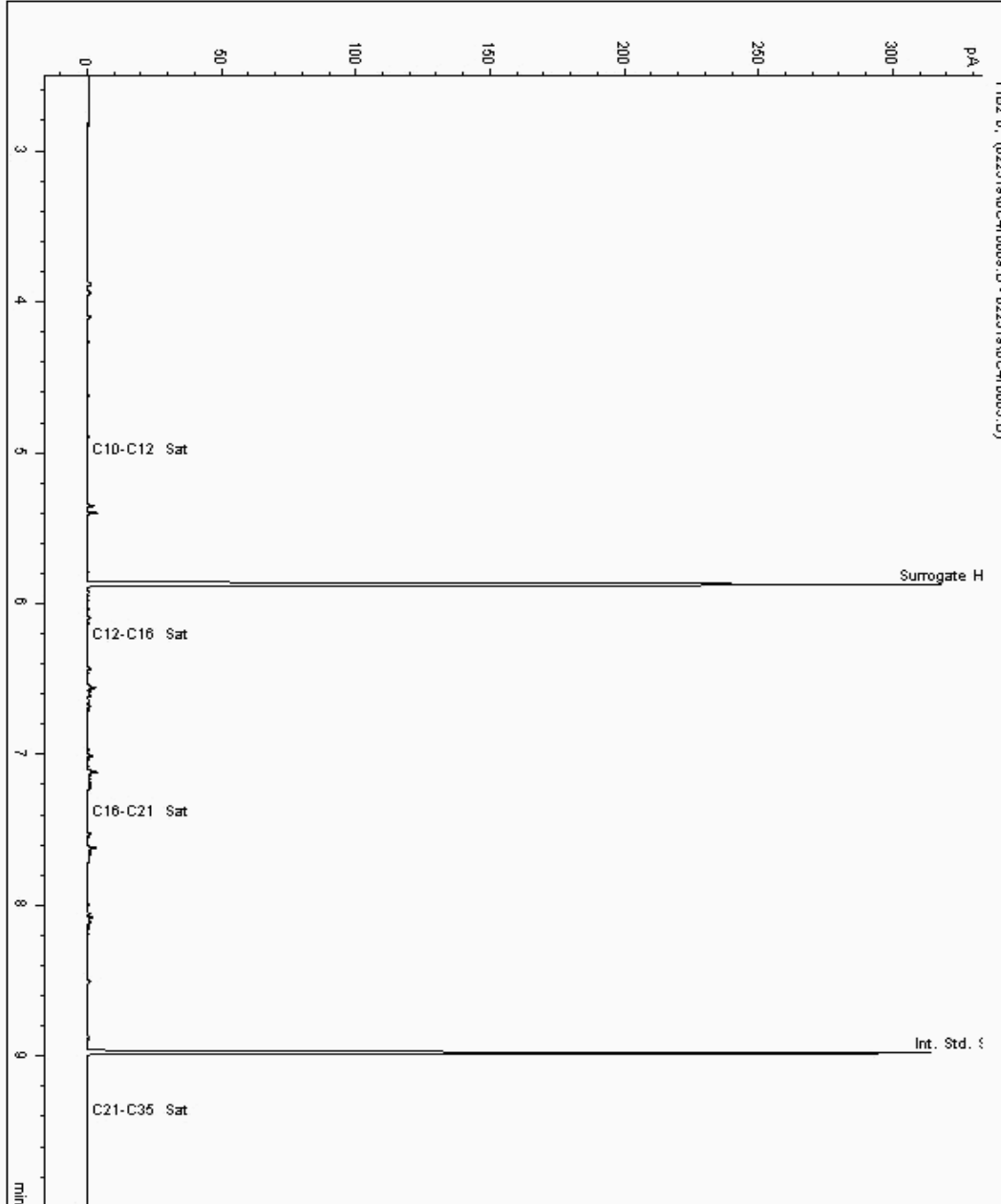
SDG: 190222-61 Client Reference: Report Number: 495559
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 19421443 Depth :
Sample ID : WS114

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247322-
Date Acquired : 25/02/19 17:33:57 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

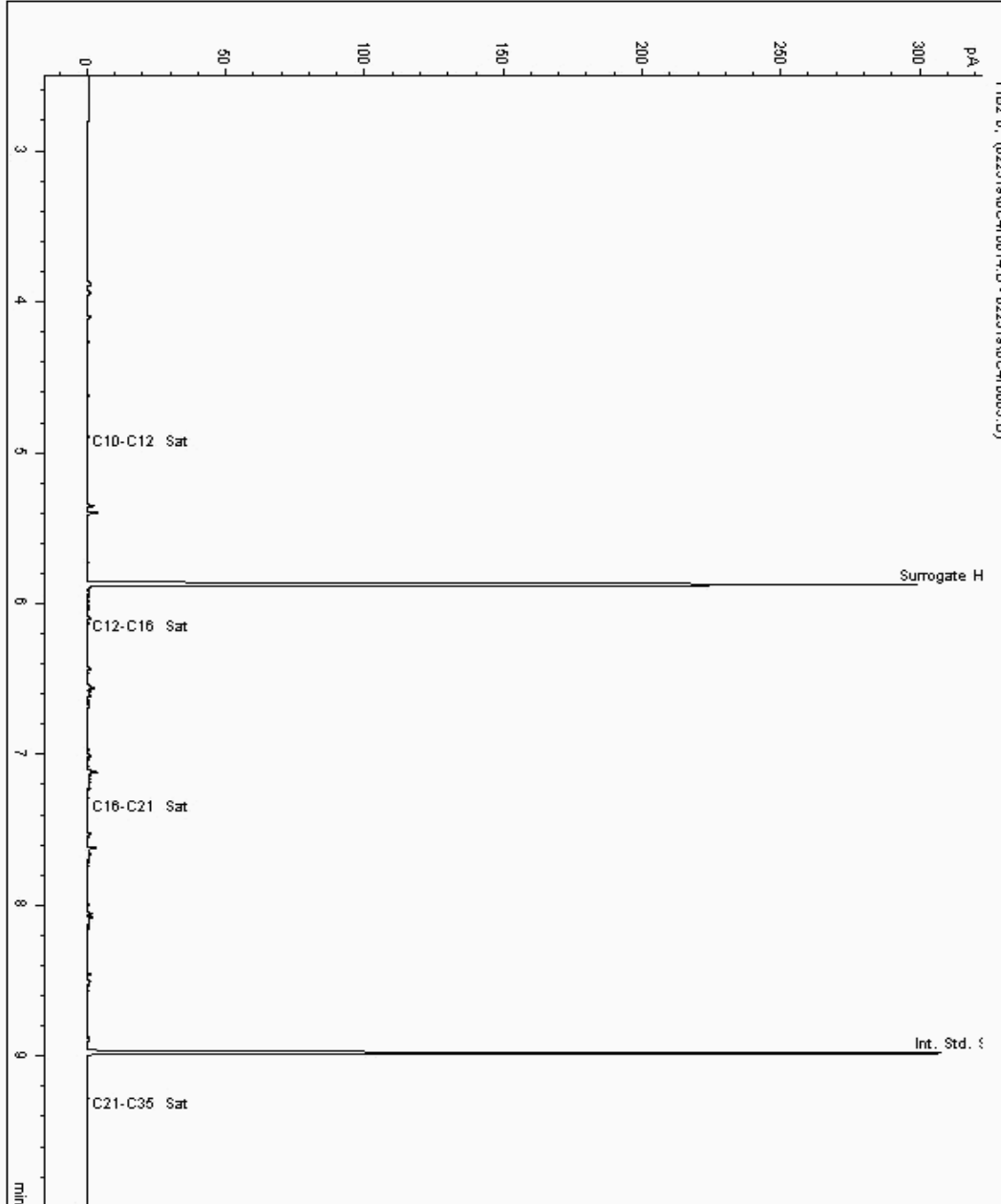
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19421458
Sample ID : BH217

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247342-
Date Acquired : 25/02/19 19:30:22 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

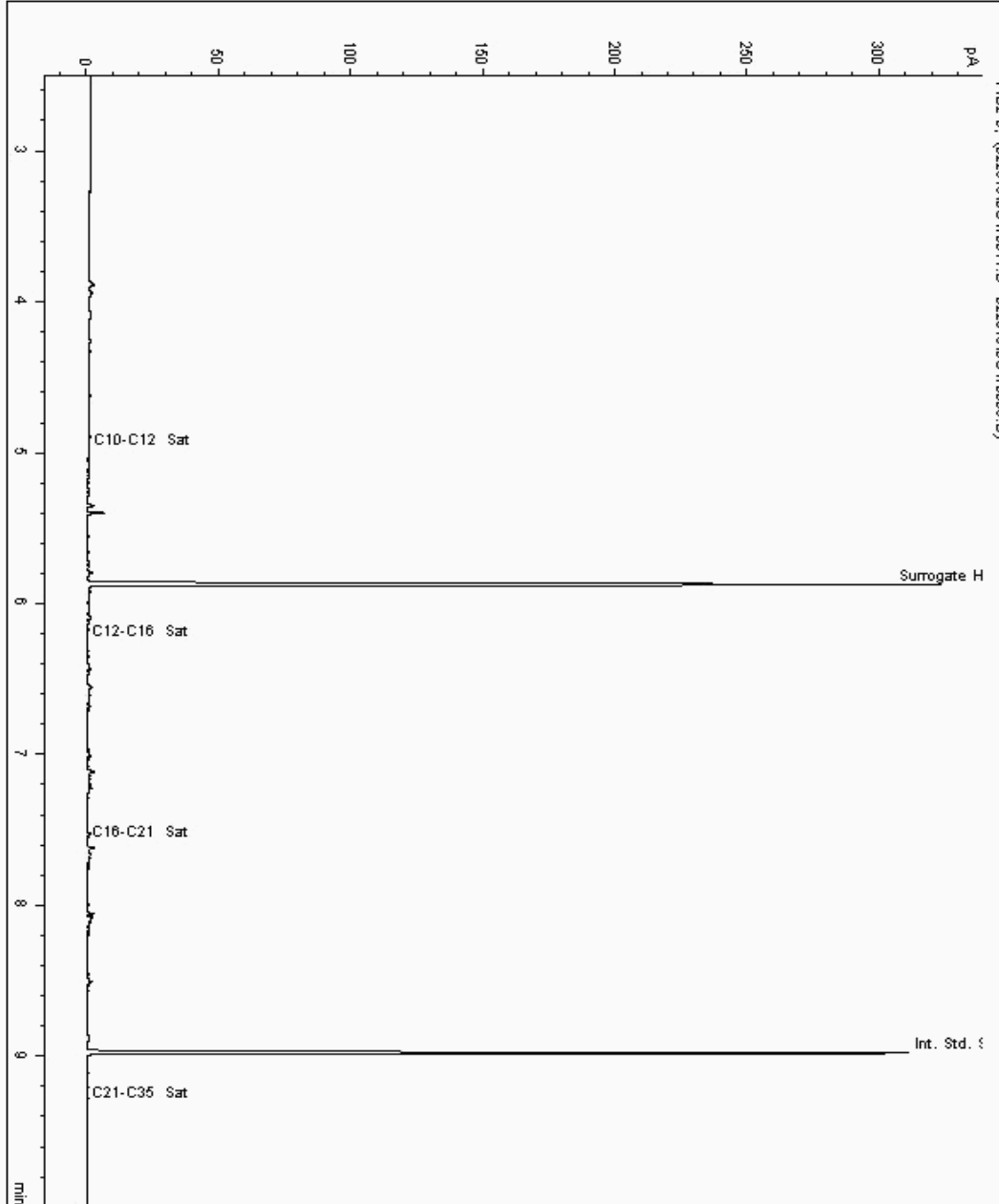
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19421463
Sample ID : BH109A

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247302-
Date Acquired : 25/02/19 18:20:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

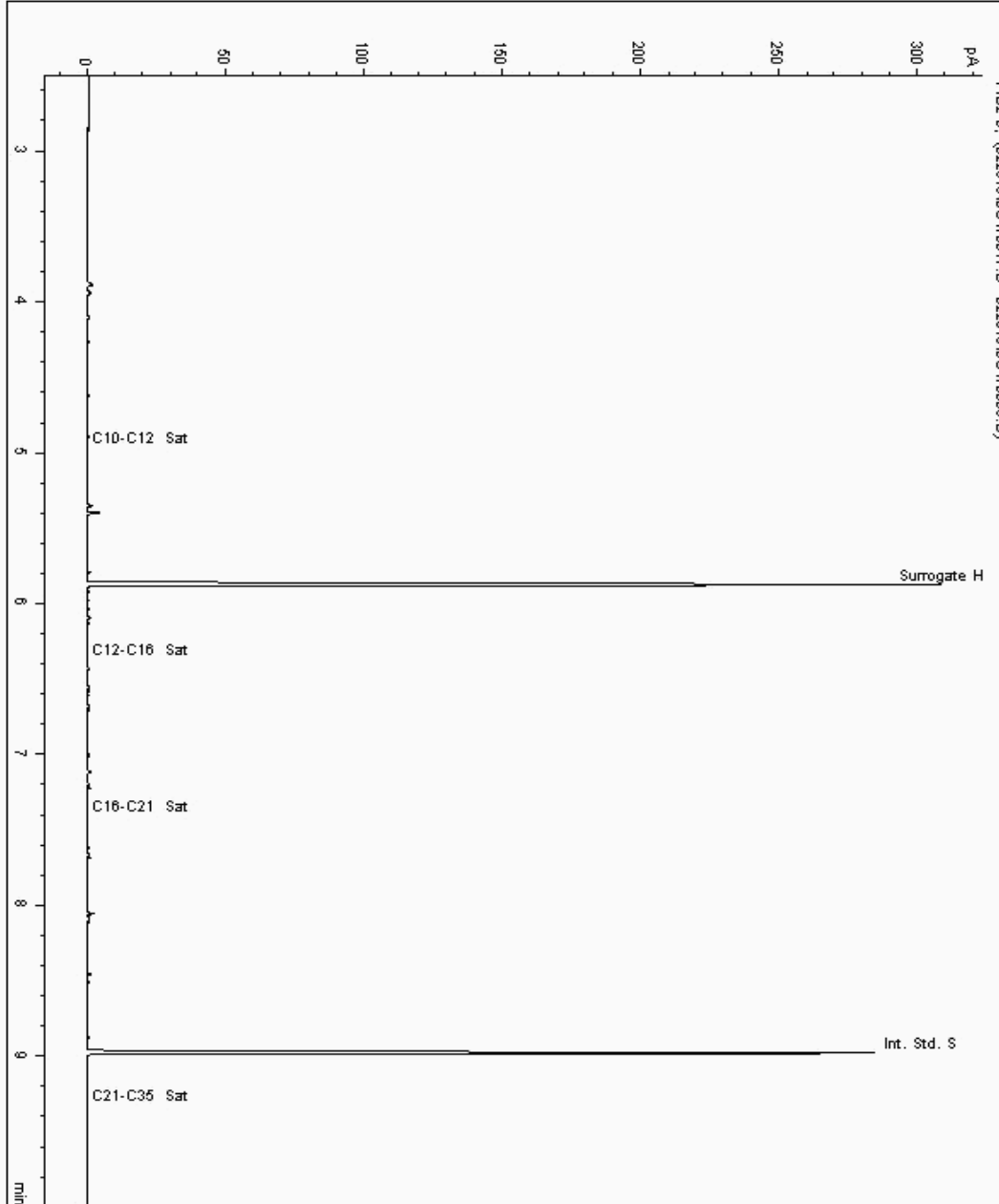
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19421491
Sample ID : BH109

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247279-
Date Acquired : 25/02/19 20:39:28 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

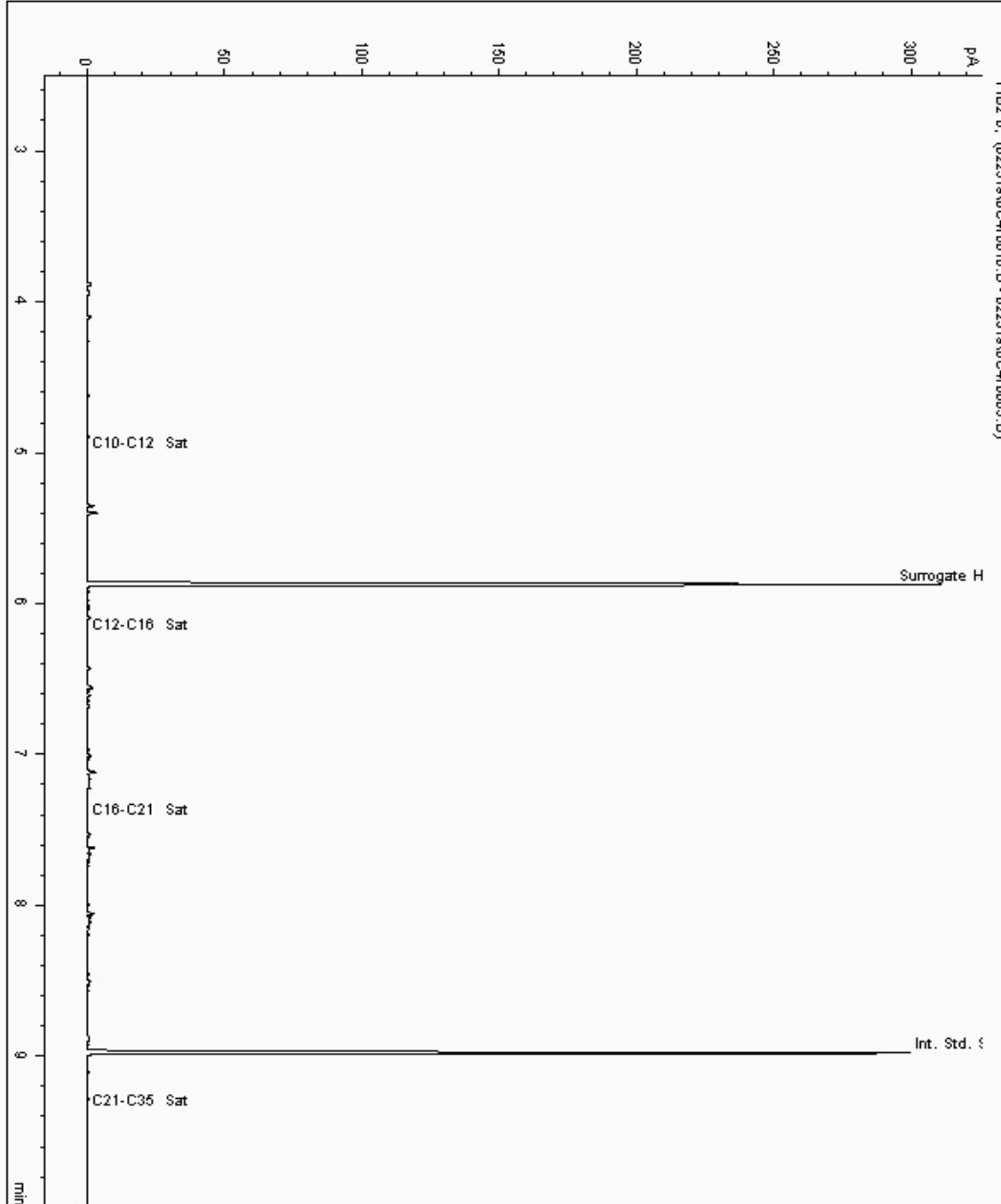
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19421562
Sample ID : BH218

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247362-
Date Acquired : 25/02/19 17:57:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

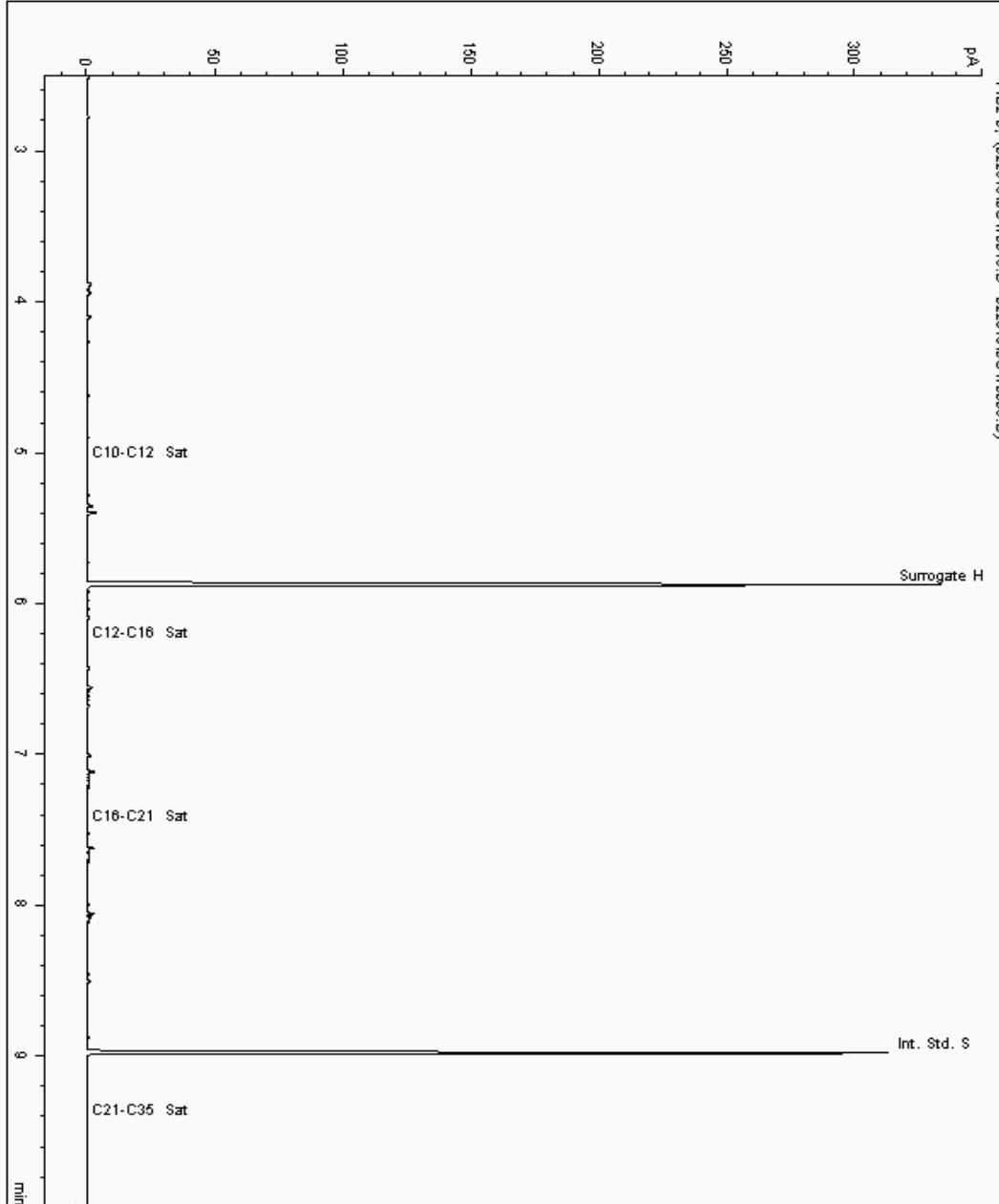
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19421596
Sample ID : BH103

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247219-
Date Acquired : 25/02/19 20:16:08 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

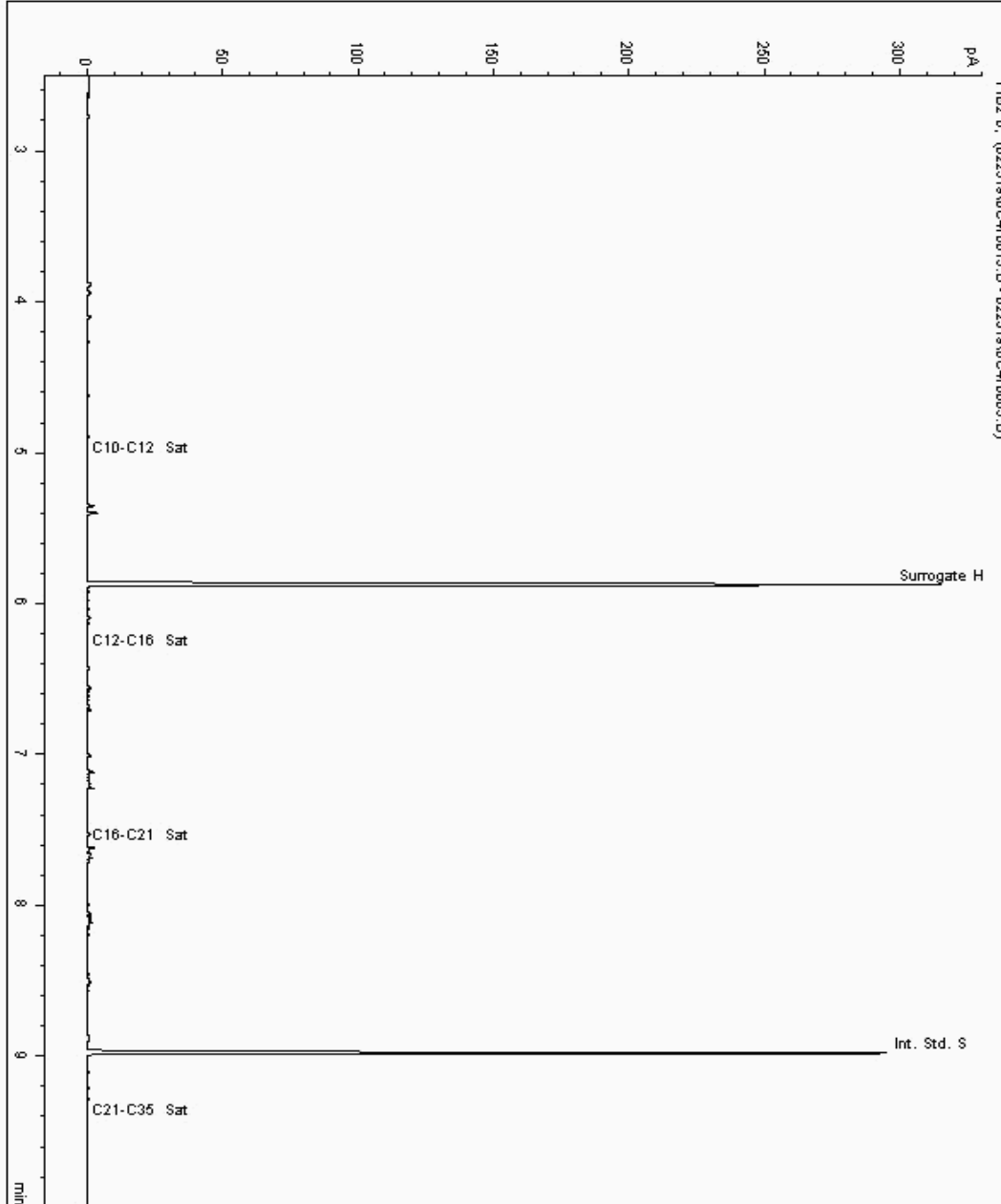
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19421612
Sample ID : BH102

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247196-
Date Acquired : 25/02/19 19:53:09 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

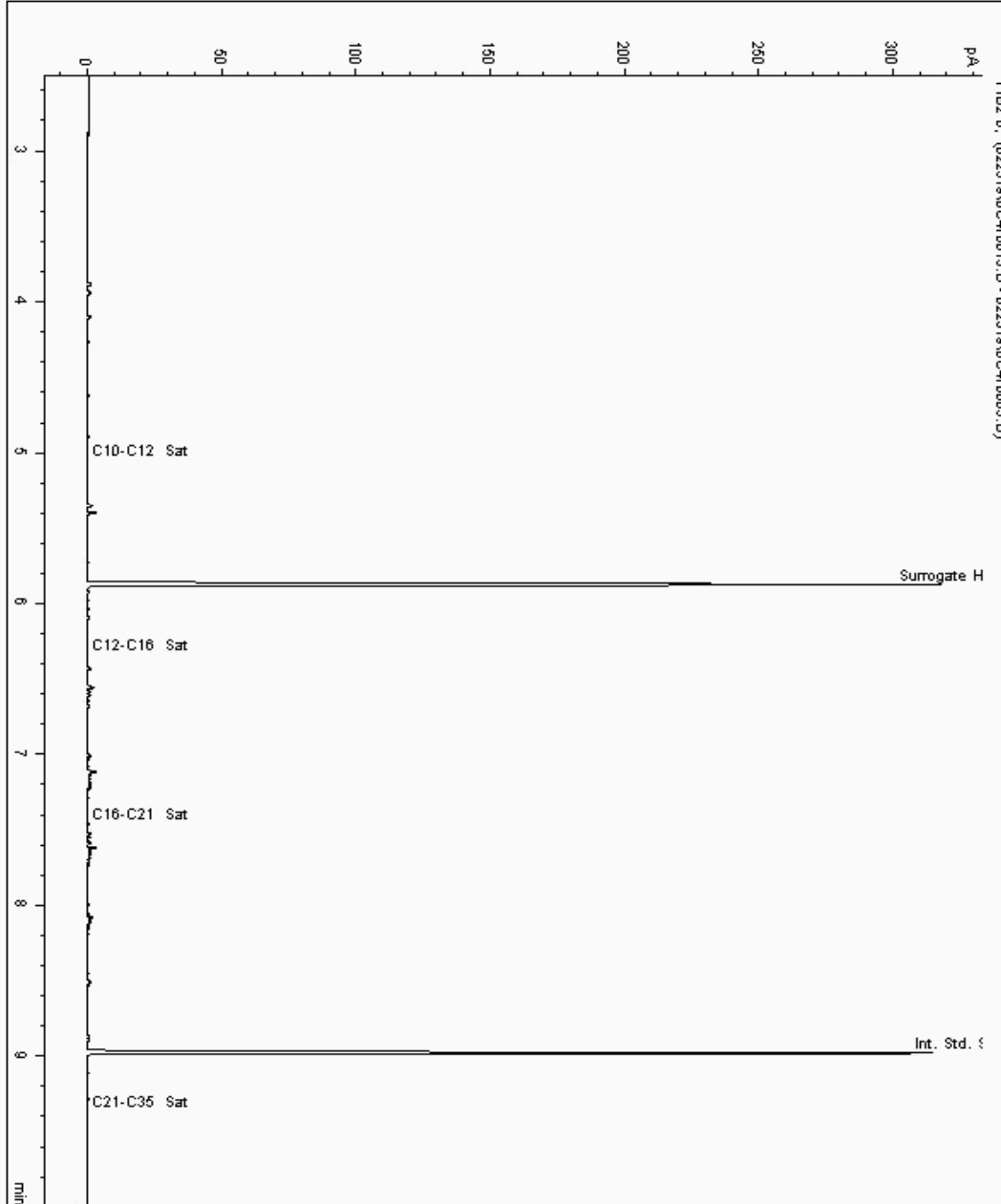
SDG: 190222-61 Client Reference: Report Number: 495559
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 19421641 Depth :
Sample ID : BH225

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247382-
Date Acquired : 25/02/19 19:06:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

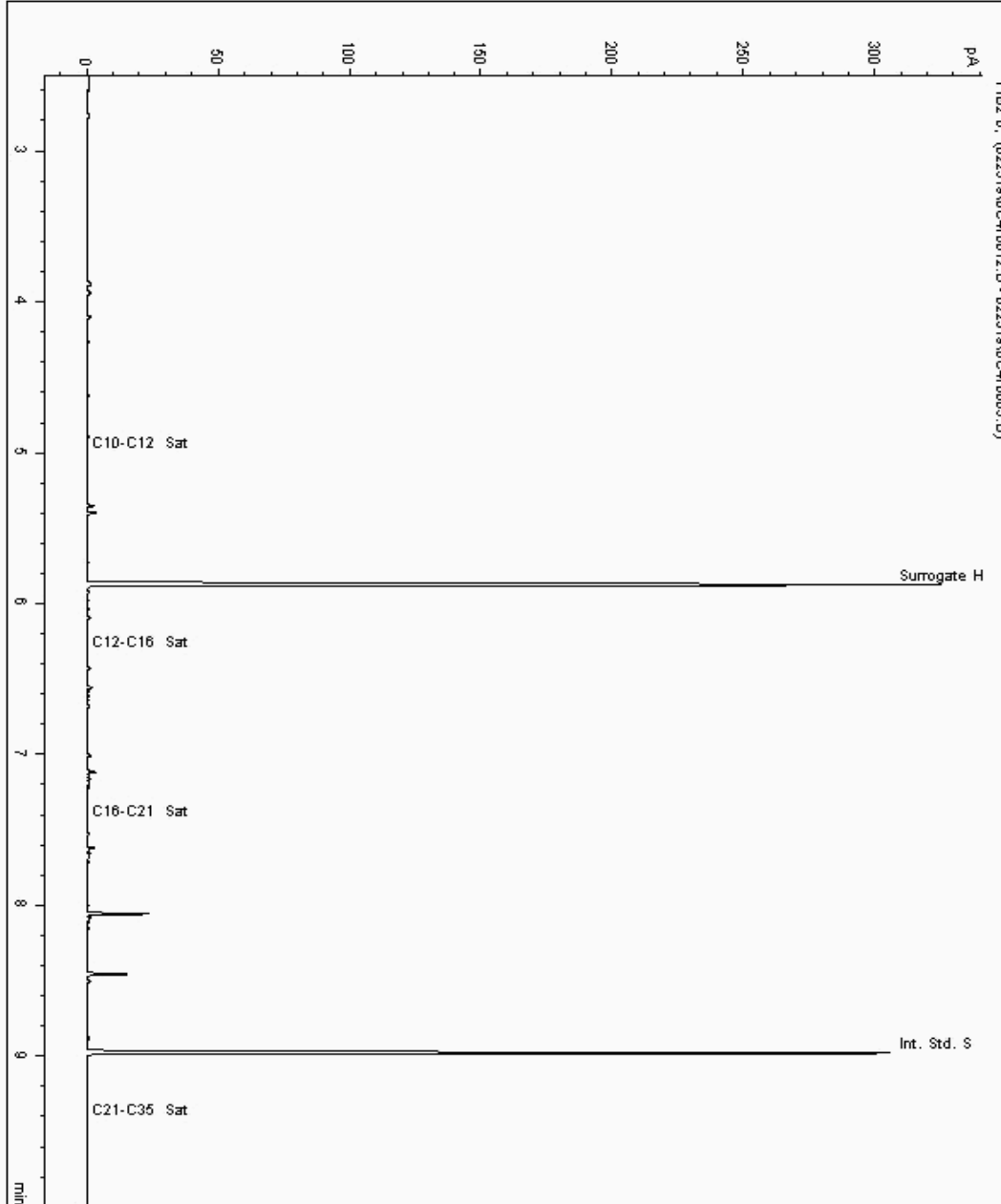
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19421650
Sample ID : BH108A

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247259-
Date Acquired : 25/02/19 18:43:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

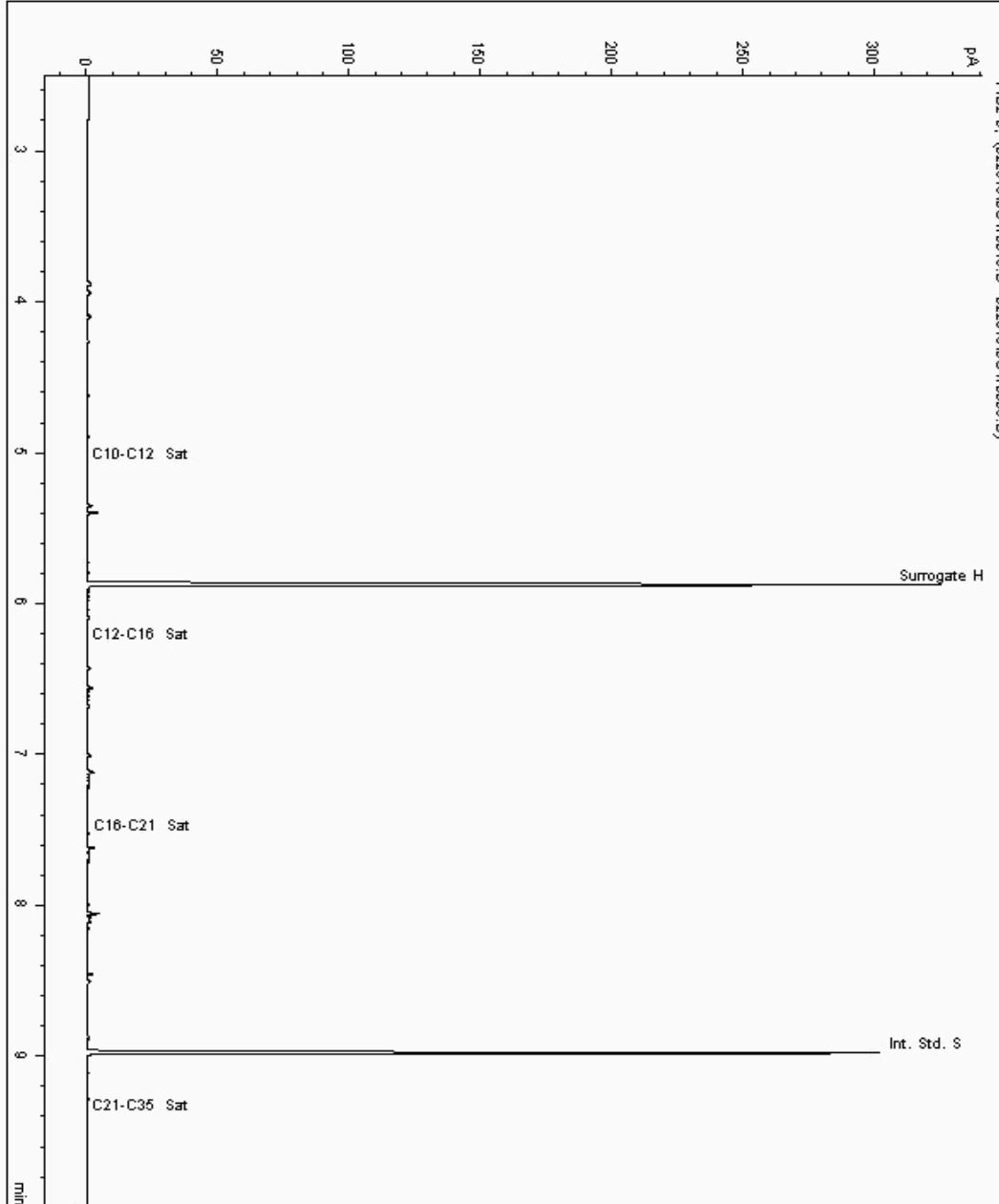
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19421665
Sample ID : BH108

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18247239-
Date Acquired : 25/02/19 21:25:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

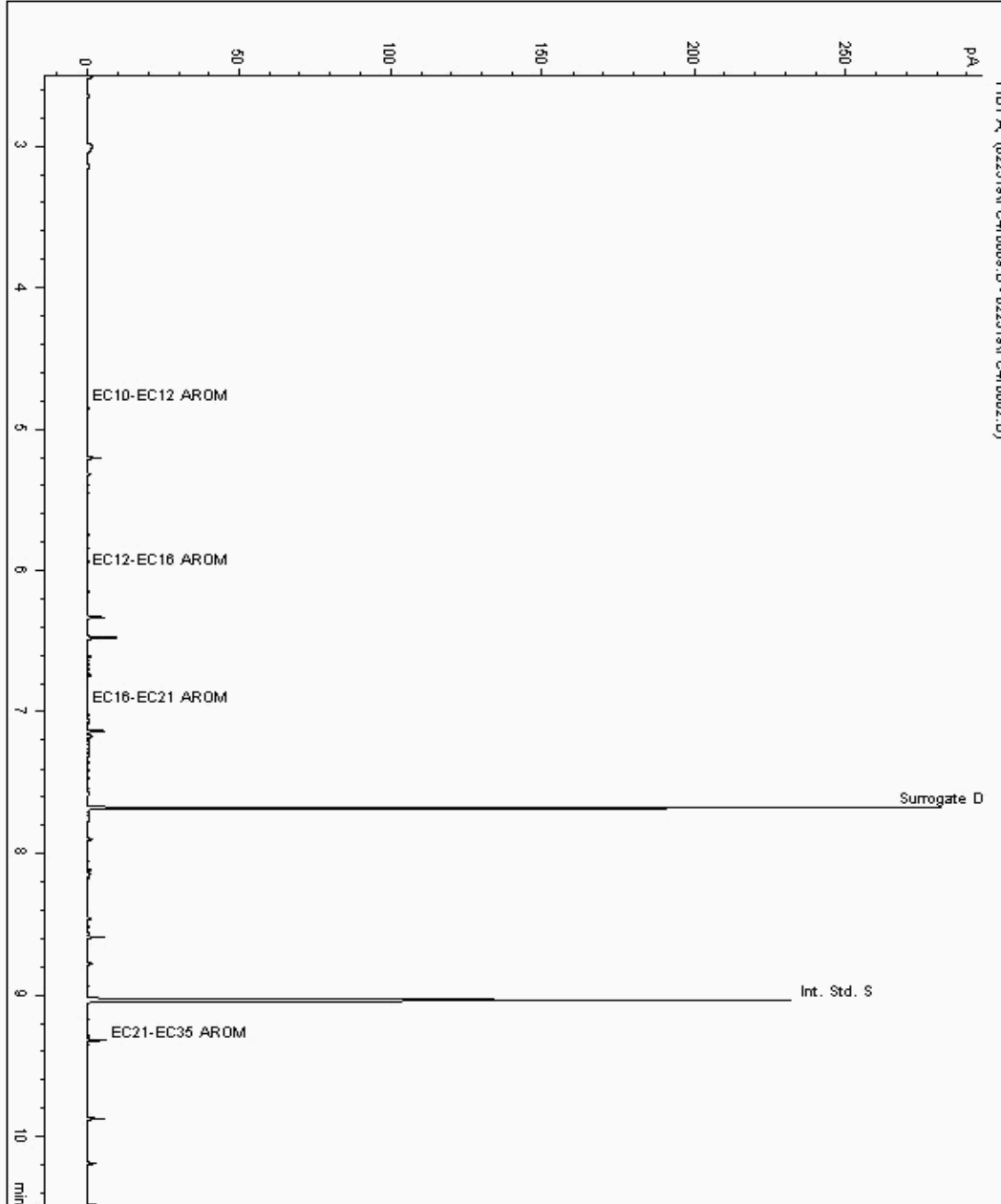
SDG: 190222-61 Client Reference: Report Number: 495559
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 19421443 Depth :
Sample ID : WS114

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247323-
Date Acquired : 25/02/19 17:33:57 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

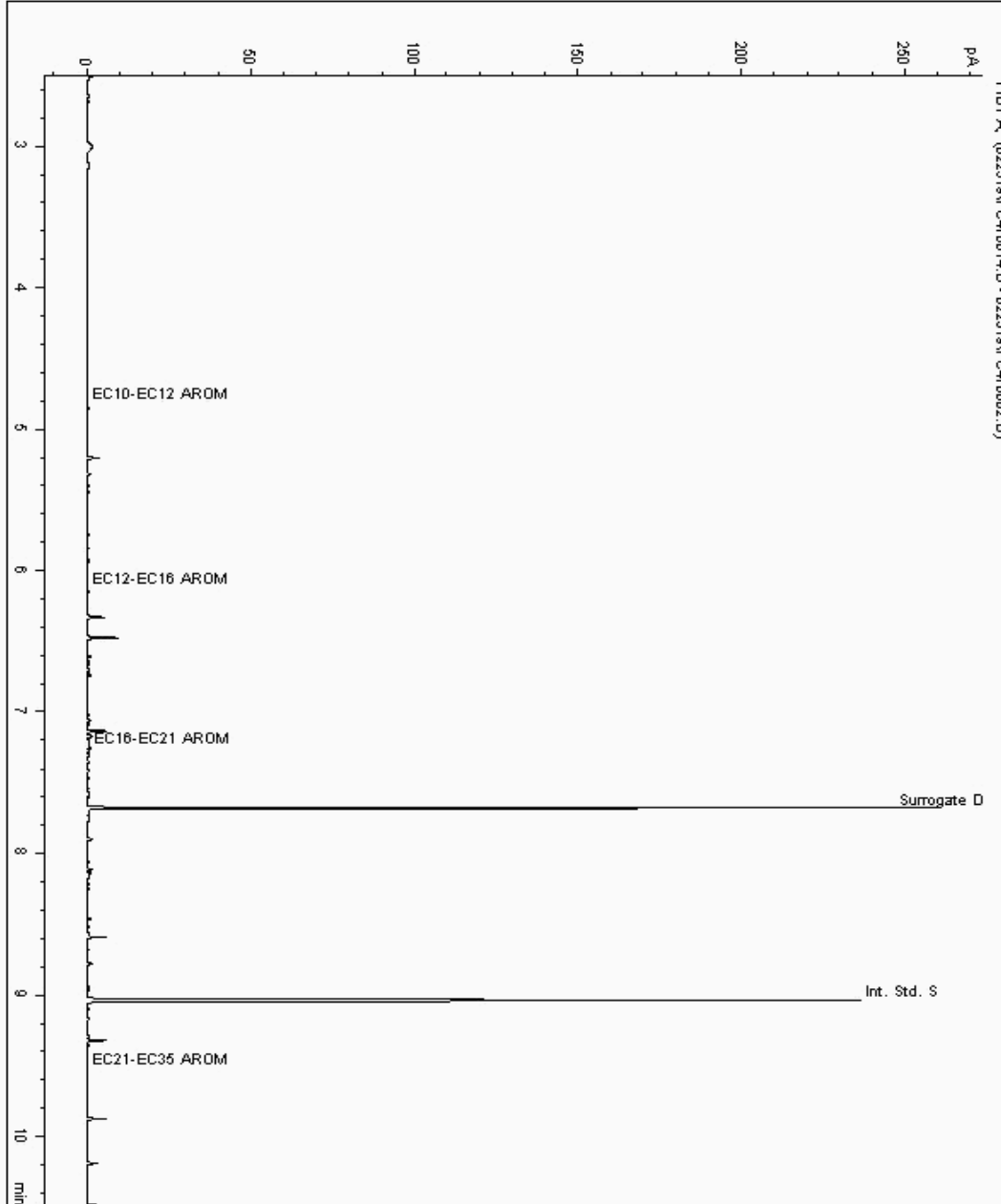
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19421458
Sample ID : BH217

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247343-
Date Acquired : 25/02/19 19:30:22 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

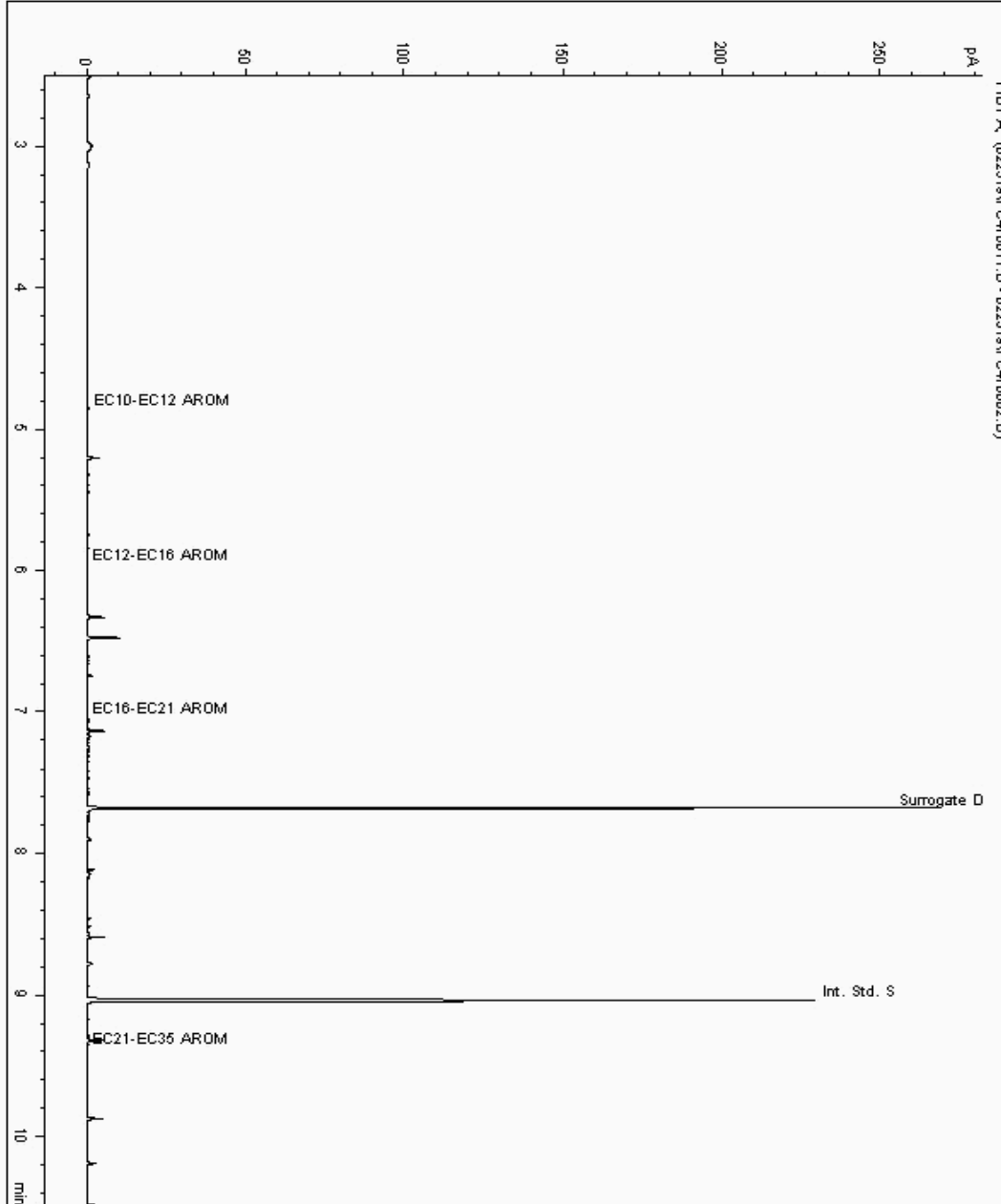
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19421463
Sample ID : BH109A

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247303-
Date Acquired : 25/02/19 18:20:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

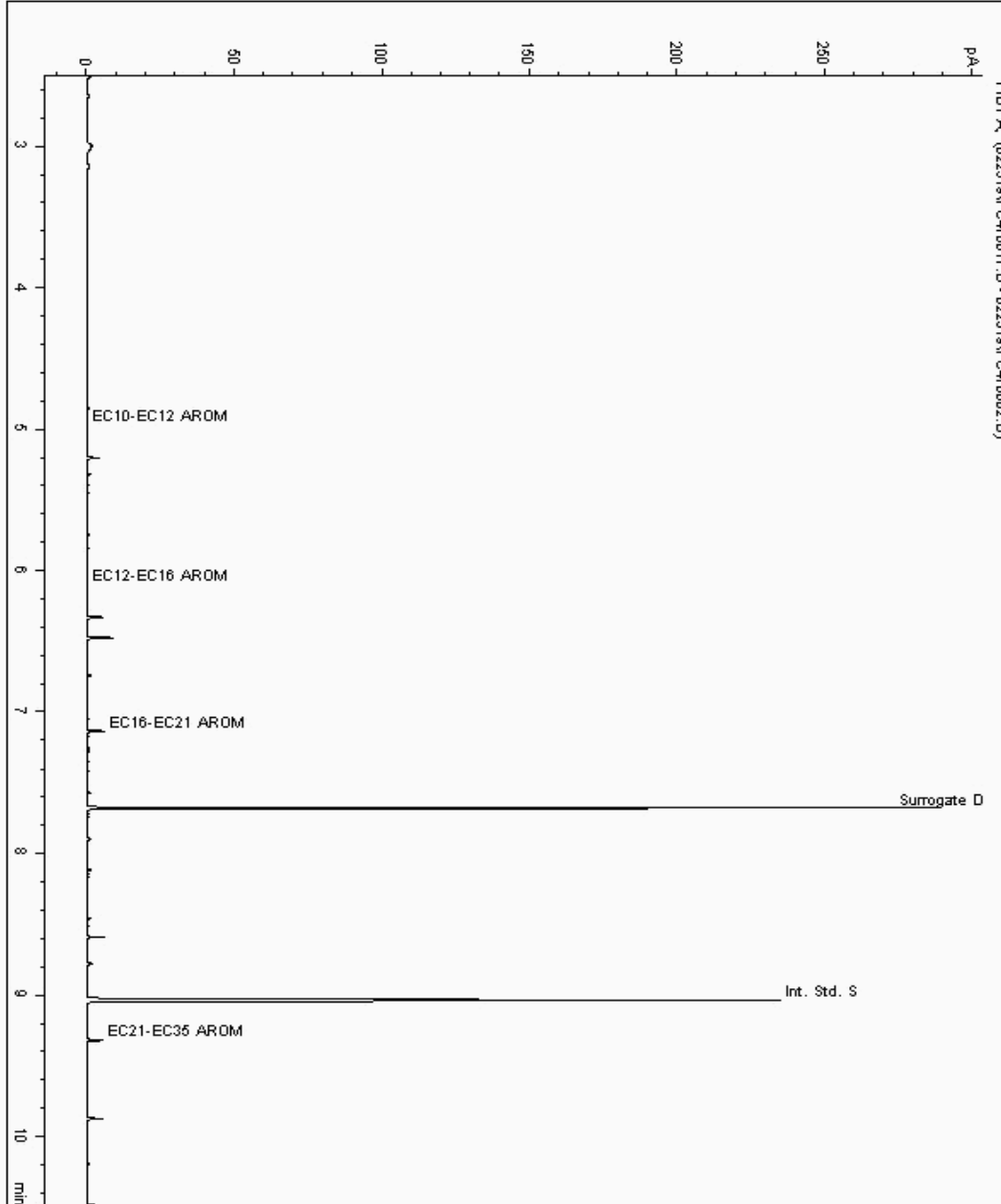
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19421491
Sample ID : BH109

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247280-
Date Acquired : 25/02/19 20:39:28 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

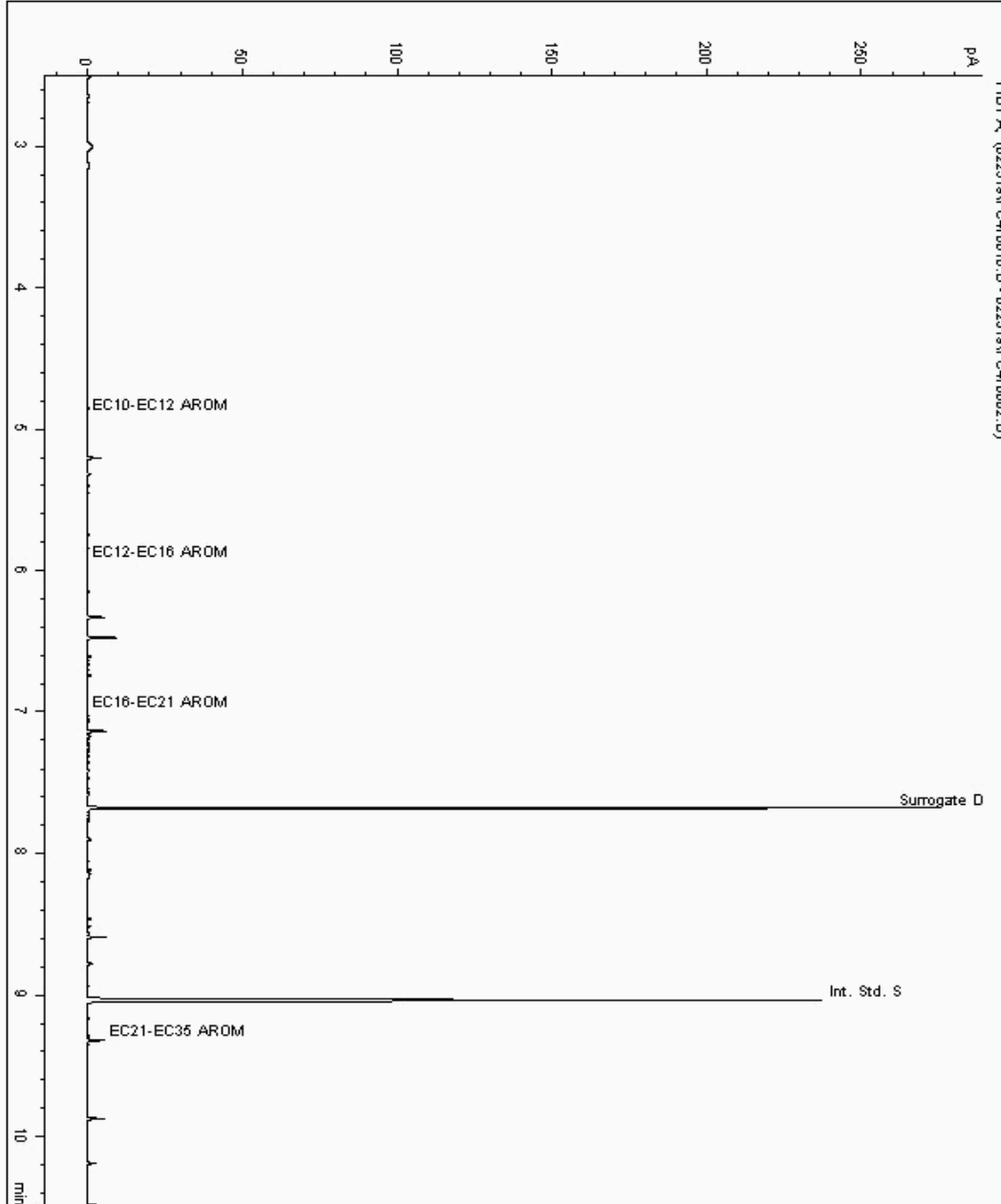
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19421562
Sample ID : BH218

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247363-
Date Acquired : 25/02/19 17:57:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

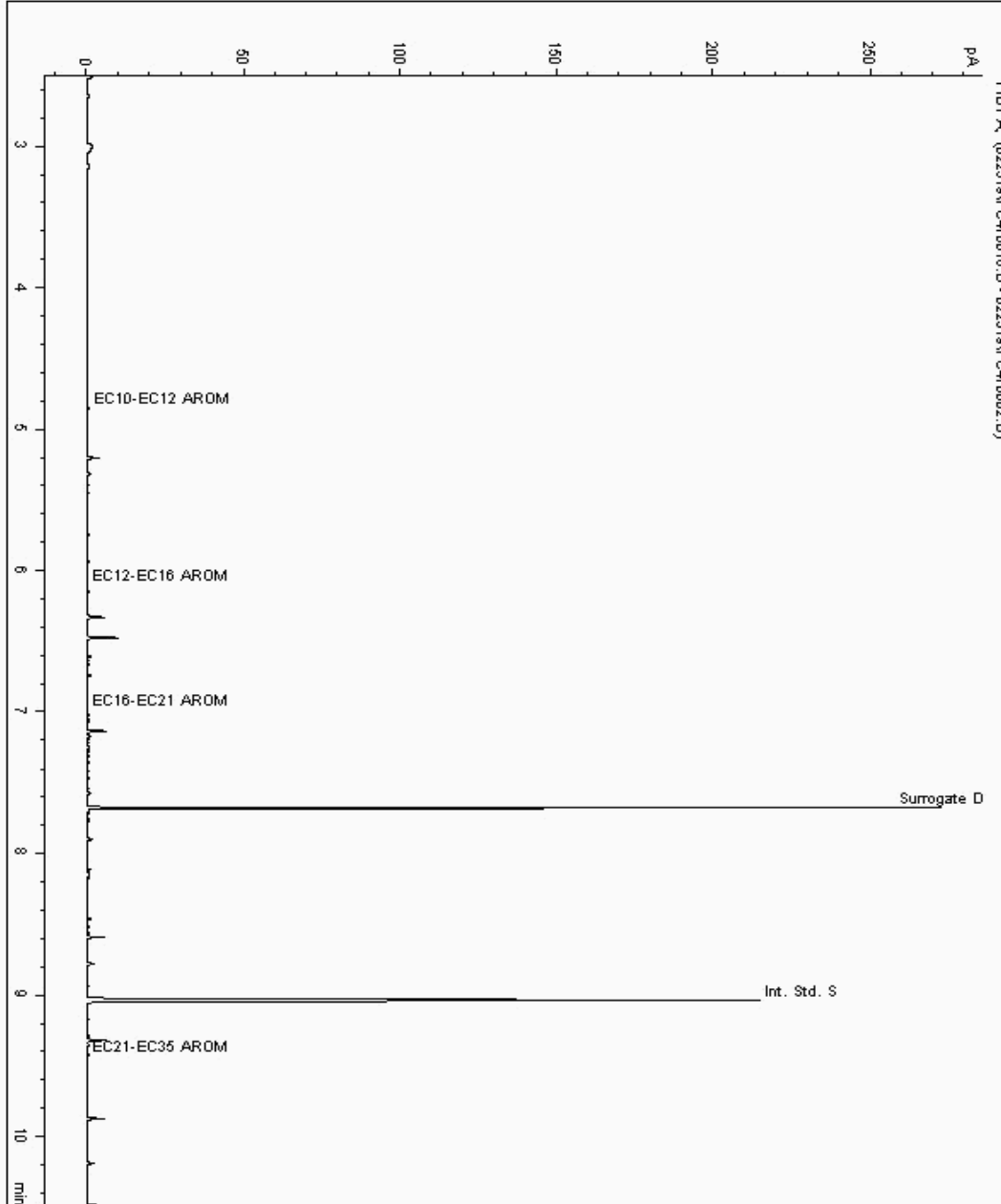
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19421596
Sample ID : BH103

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247220-
Date Acquired : 25/02/19 20:16:08 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

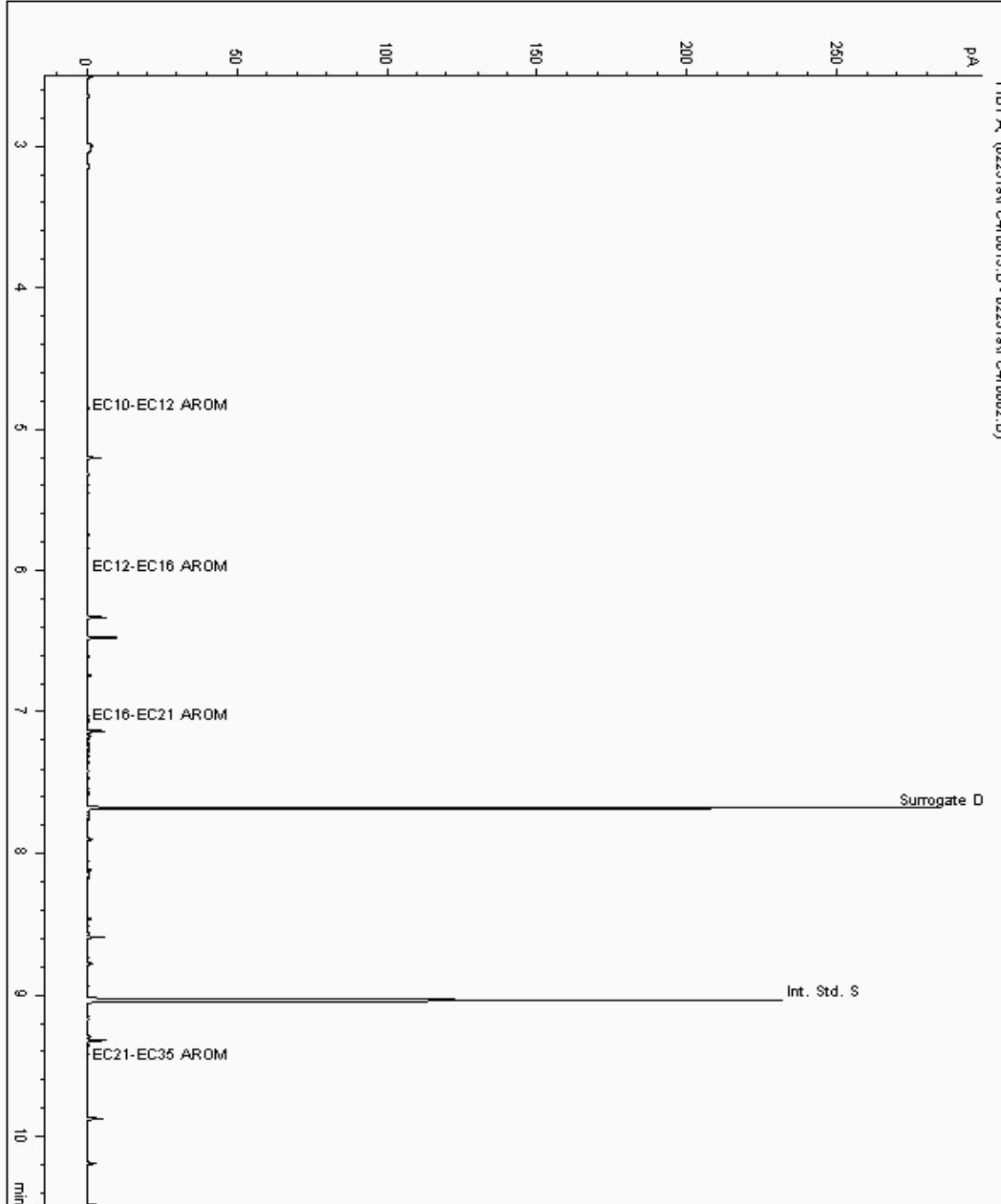
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19421612
Sample ID : BH102

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247197-
Date Acquired : 25/02/19 19:53:09 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

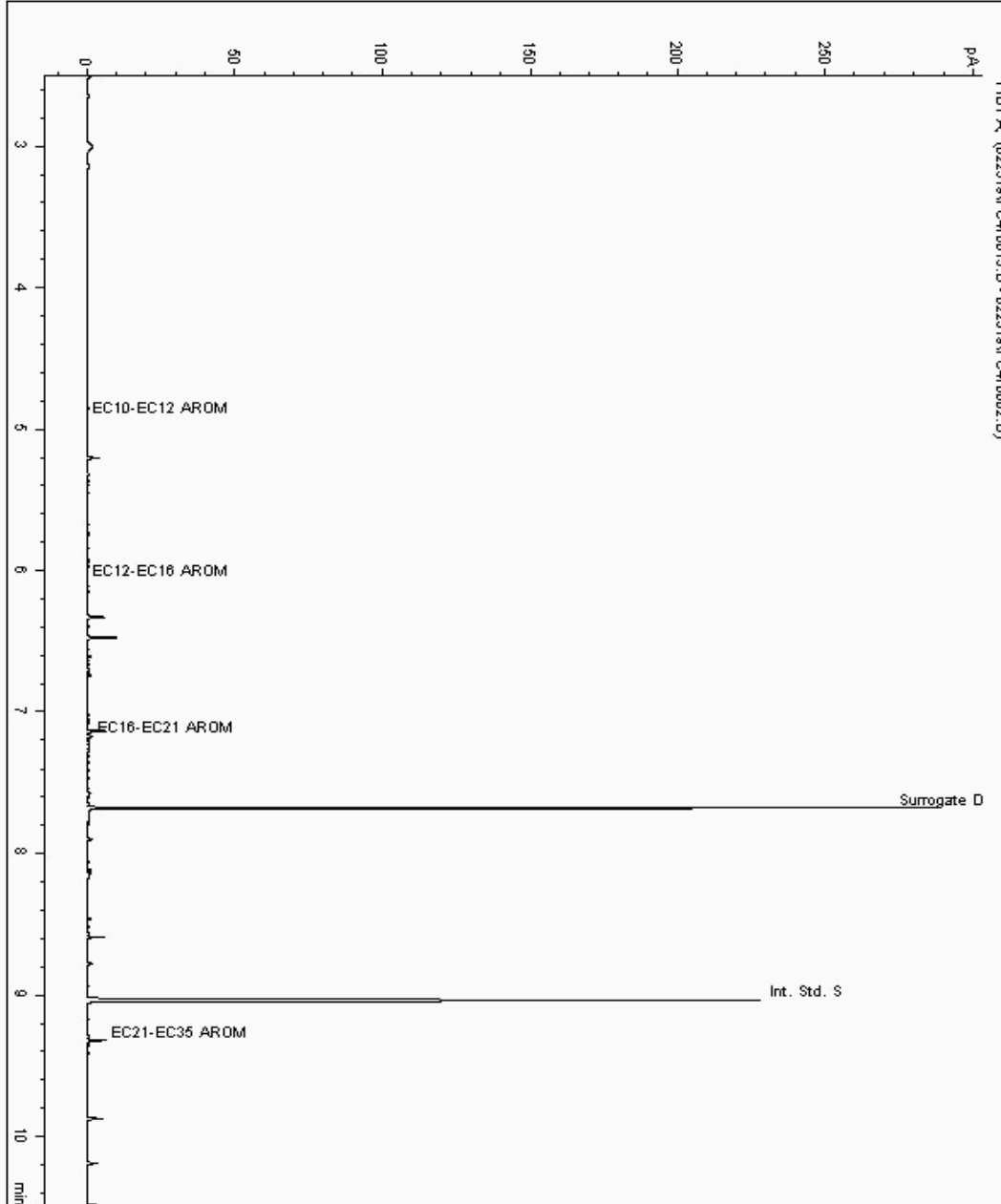
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19421641
Sample ID : BH225

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247383-
Date Acquired : 25/02/19 19:06:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495559
Superseded Report:

Chromatogram

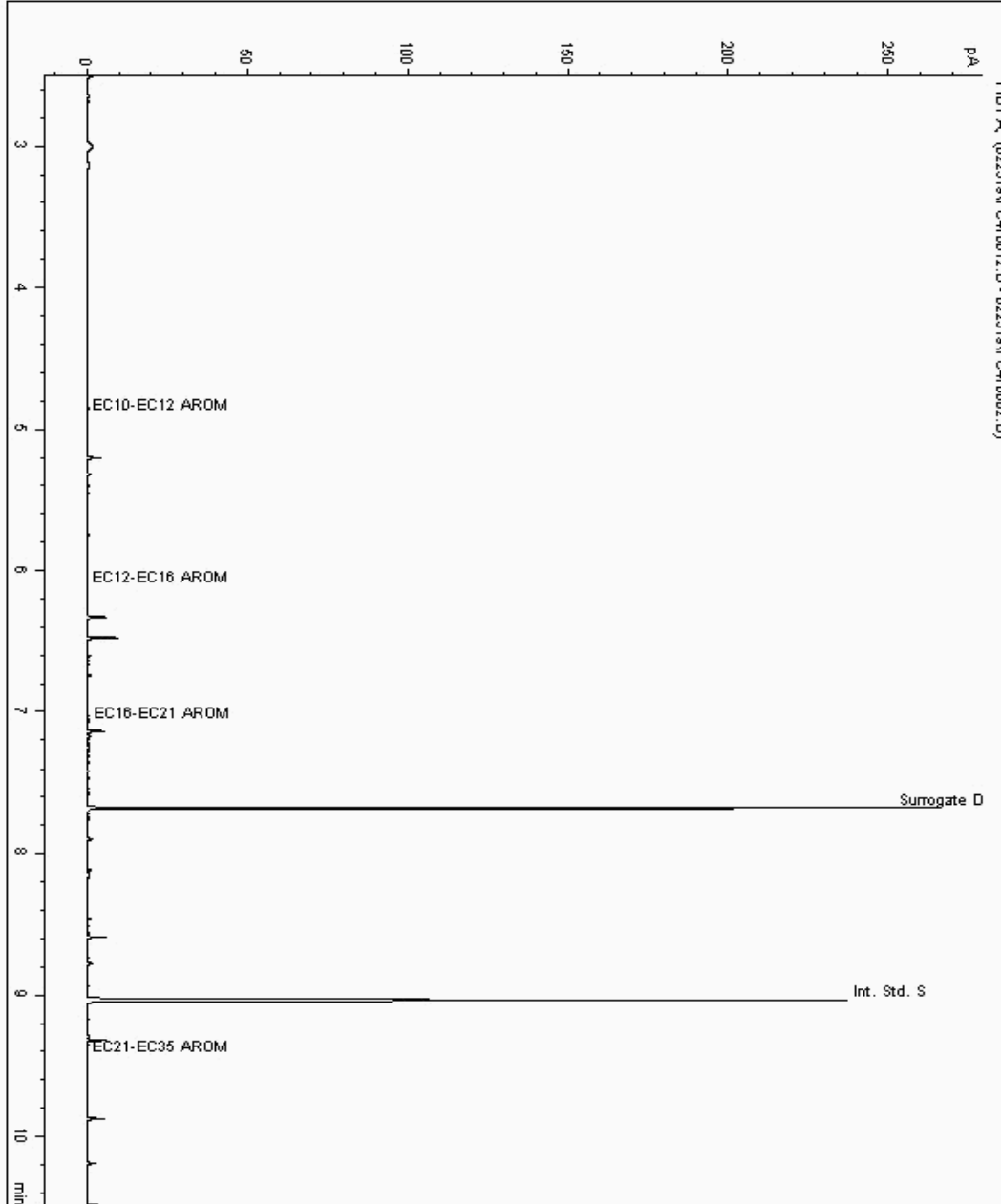
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19421650
Sample ID : BH108A

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247260-
Date Acquired : 25/02/19 18:43:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

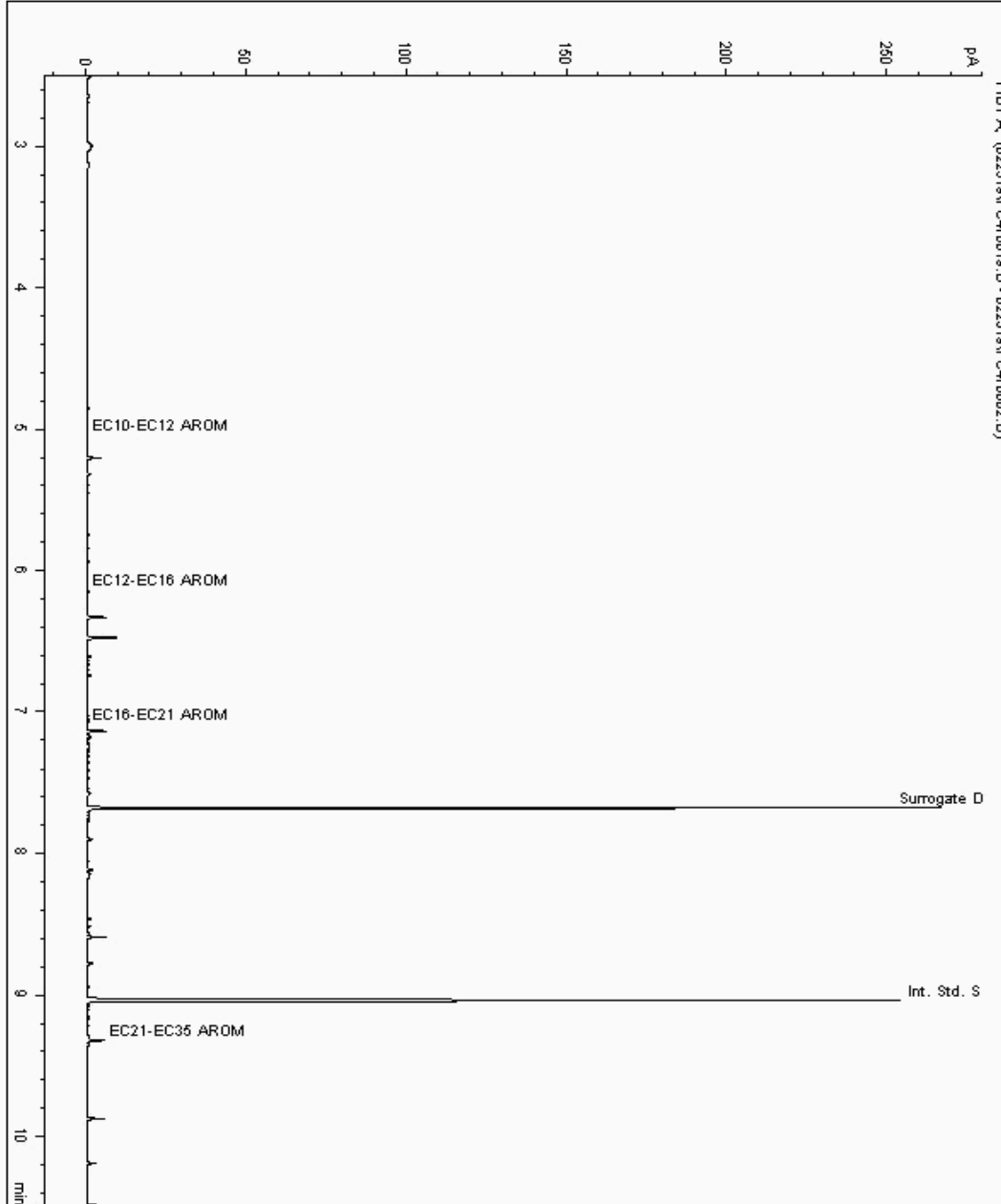
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Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 19421665 Depth :
Sample ID : BH108

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18247240-
Date Acquired : 25/02/19 21:25:46 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

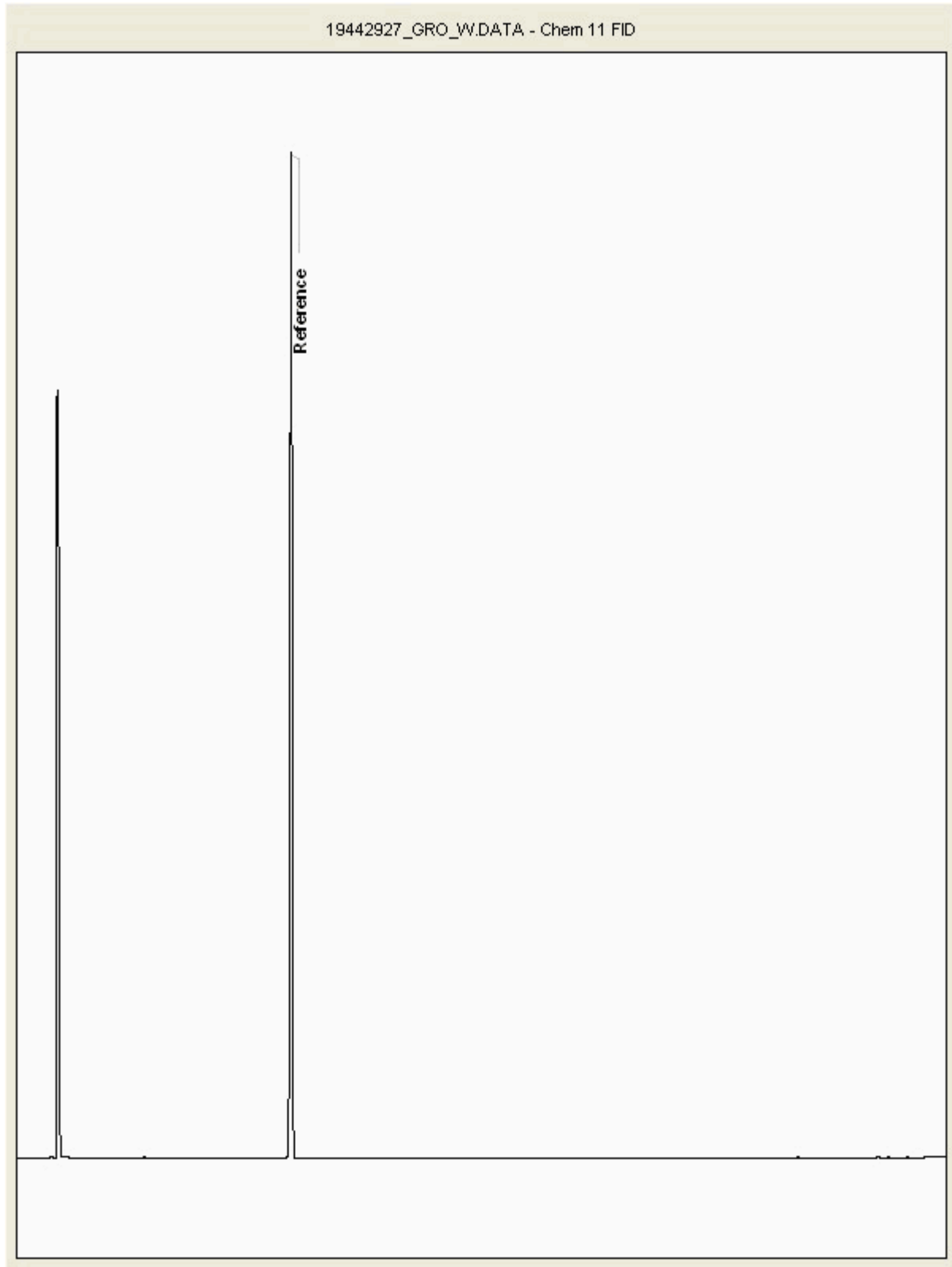
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19442927
Sample ID : BH109

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

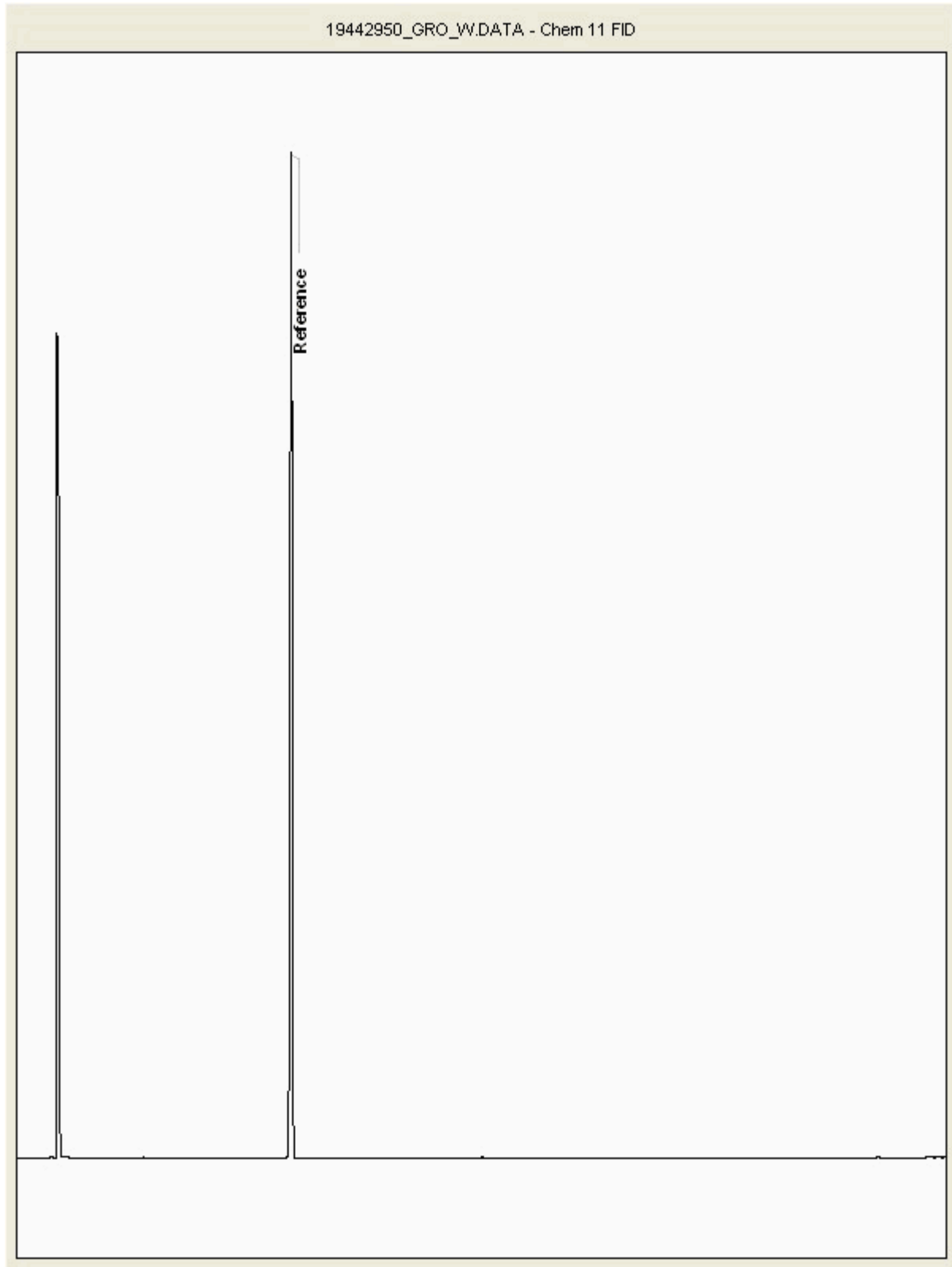
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19442950
Sample ID : BH102

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

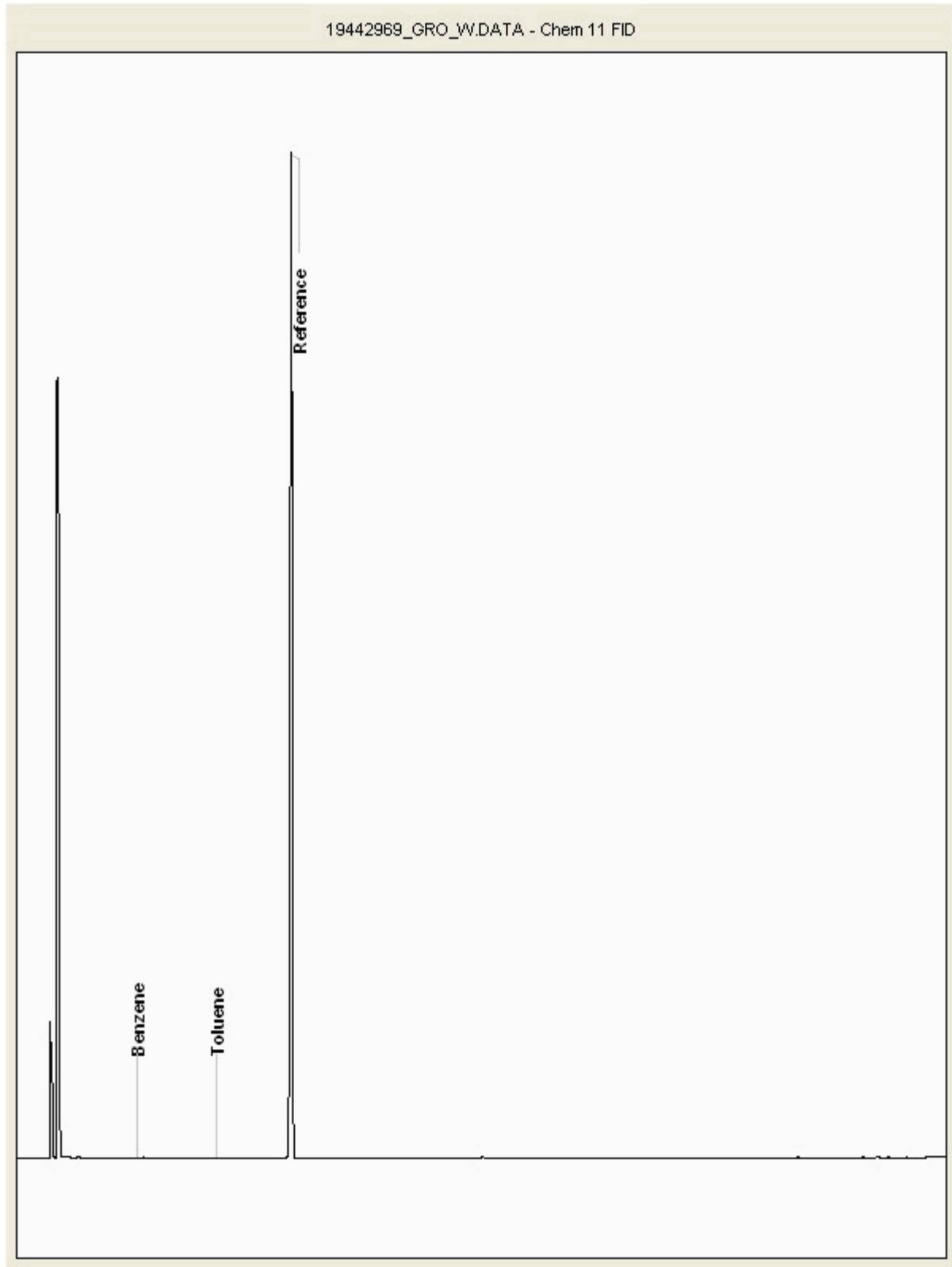
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19442969
Sample ID : BH109A

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

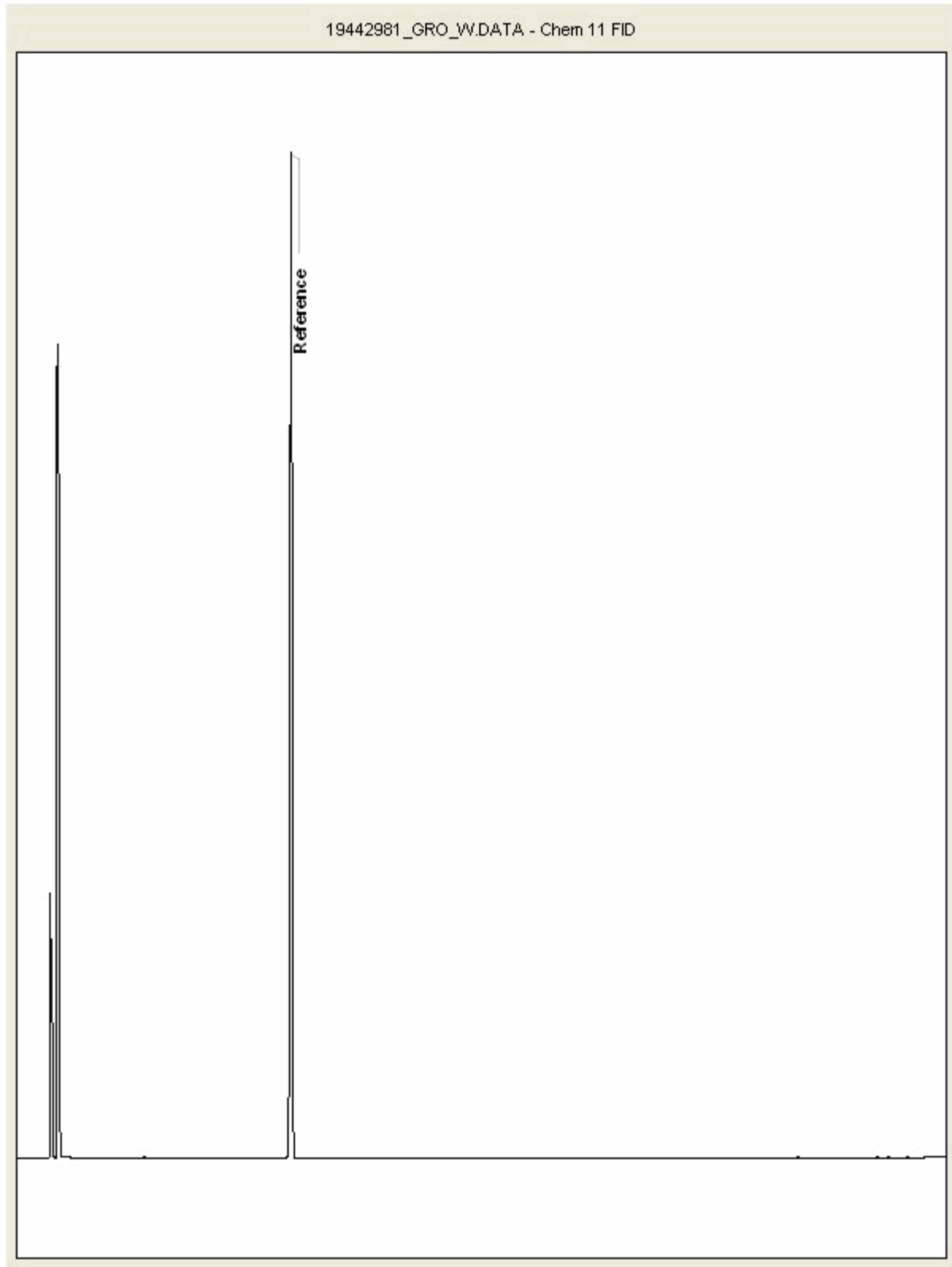
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19442981
Sample ID : BH218

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

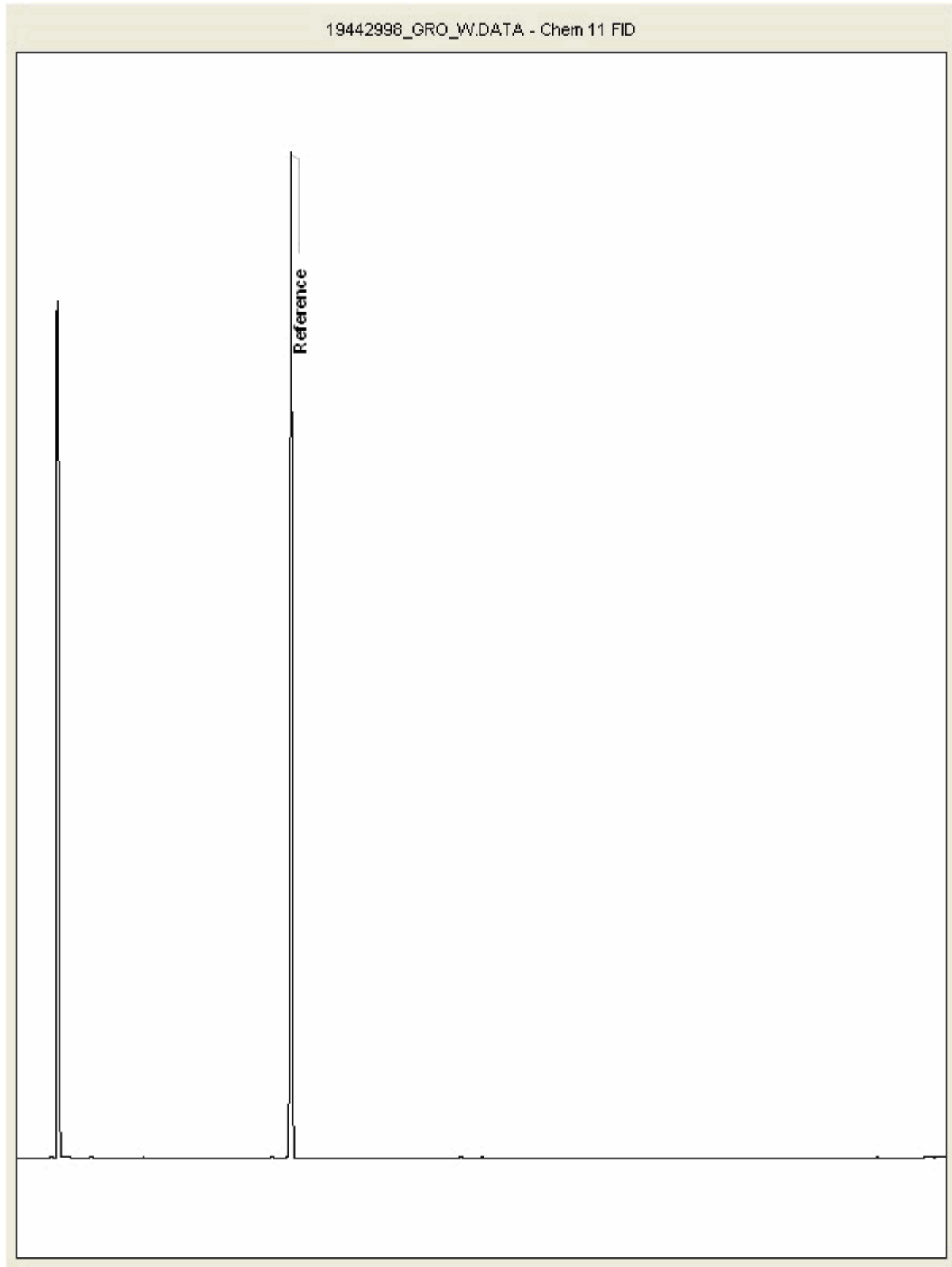
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19442998
Sample ID : WS114

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

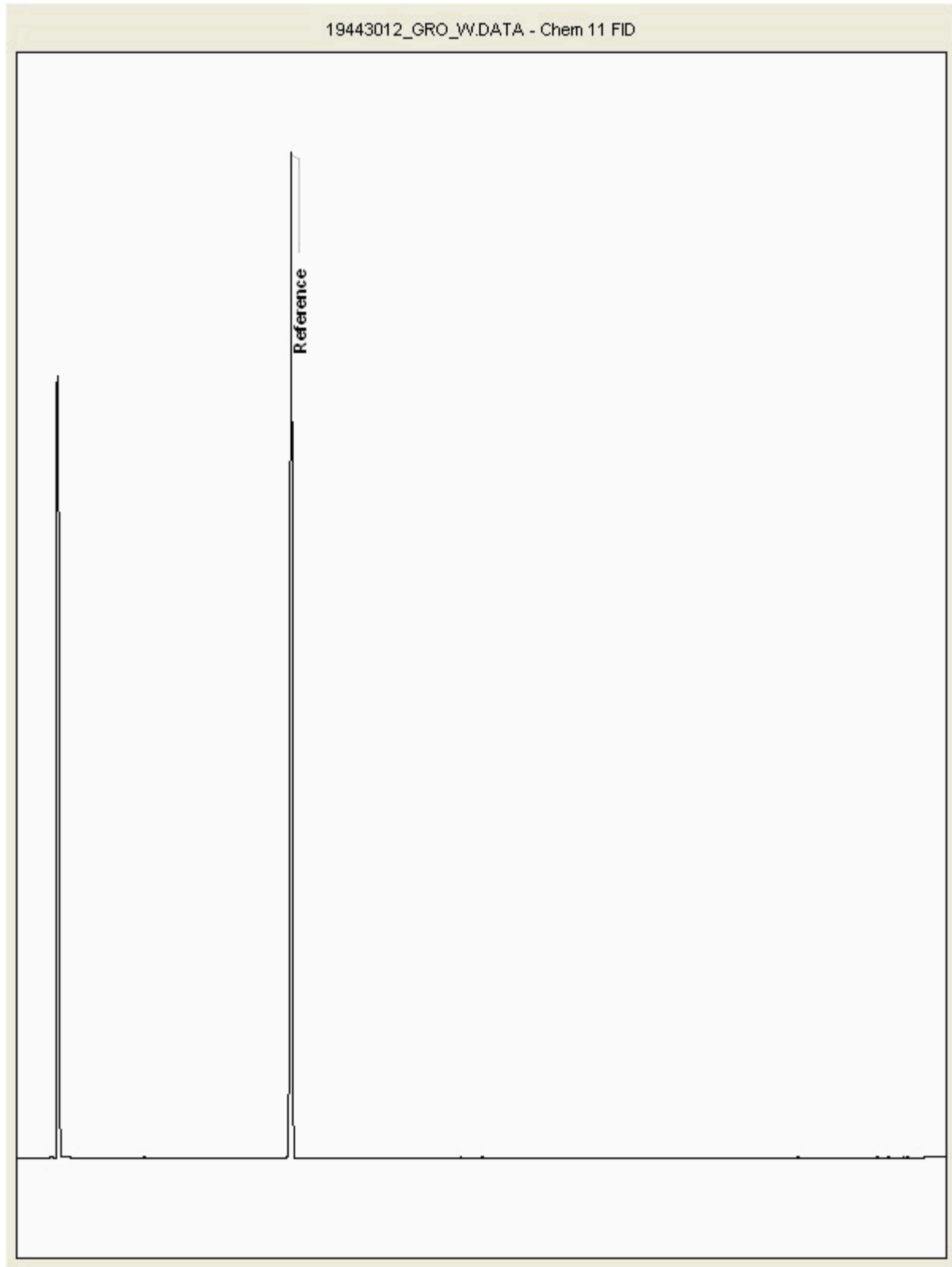
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19443012
Sample ID : BH225

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

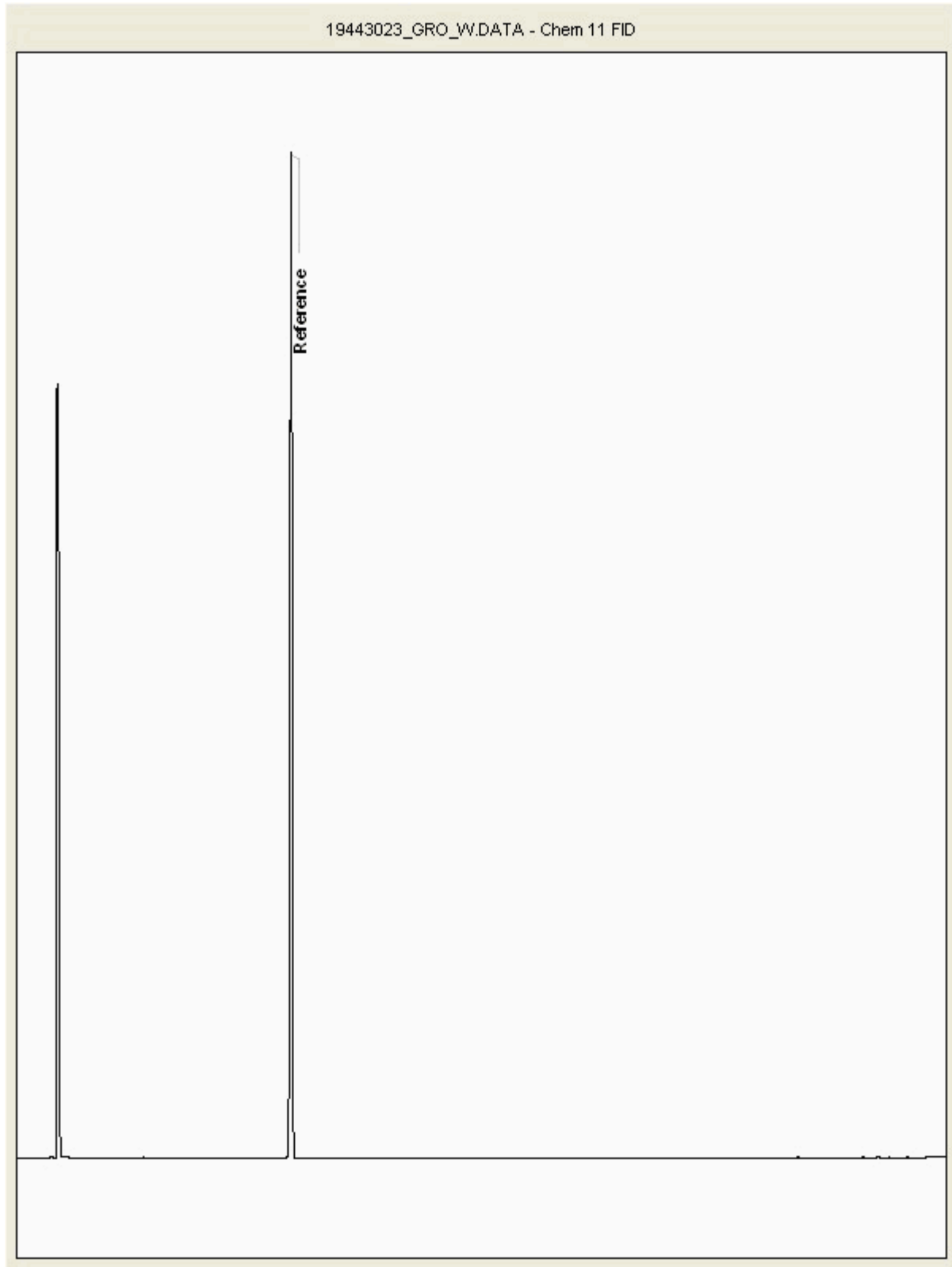
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19443023
Sample ID : BH103

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

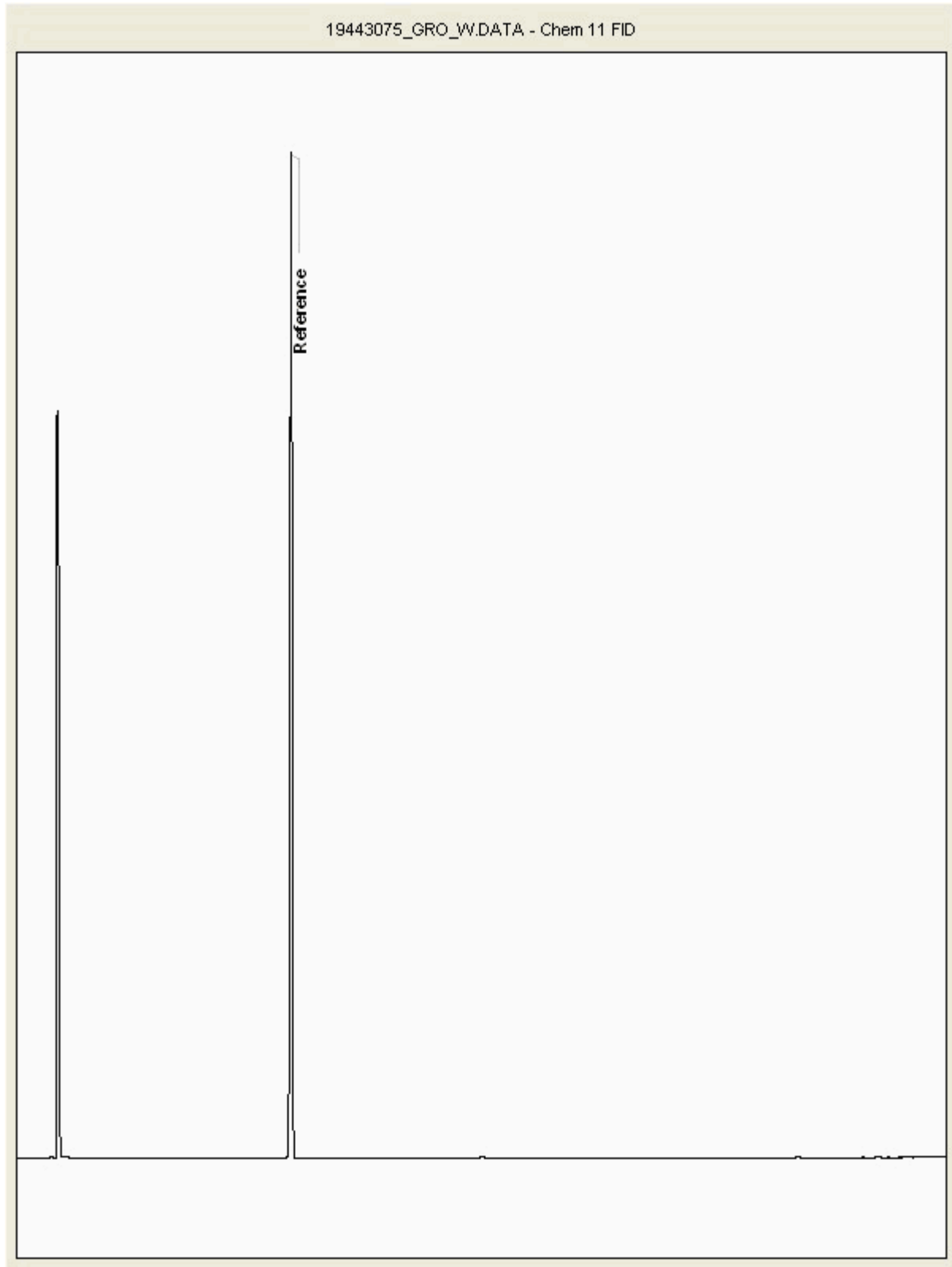
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19443075
Sample ID : BH217

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

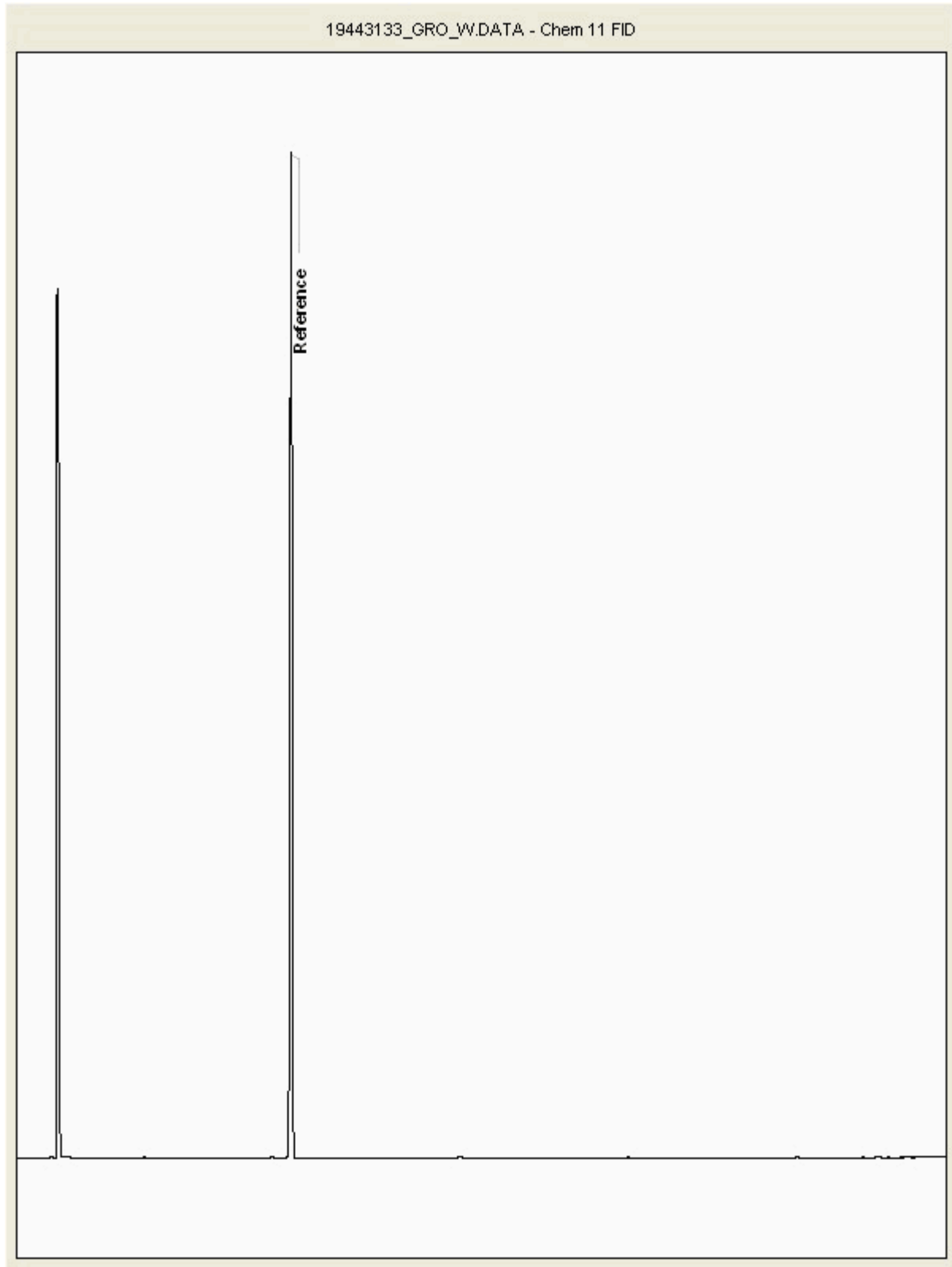
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19443133
Sample ID : BH108

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190222-61
Location: Not Specified

Client Reference:
Order Number: P2021550

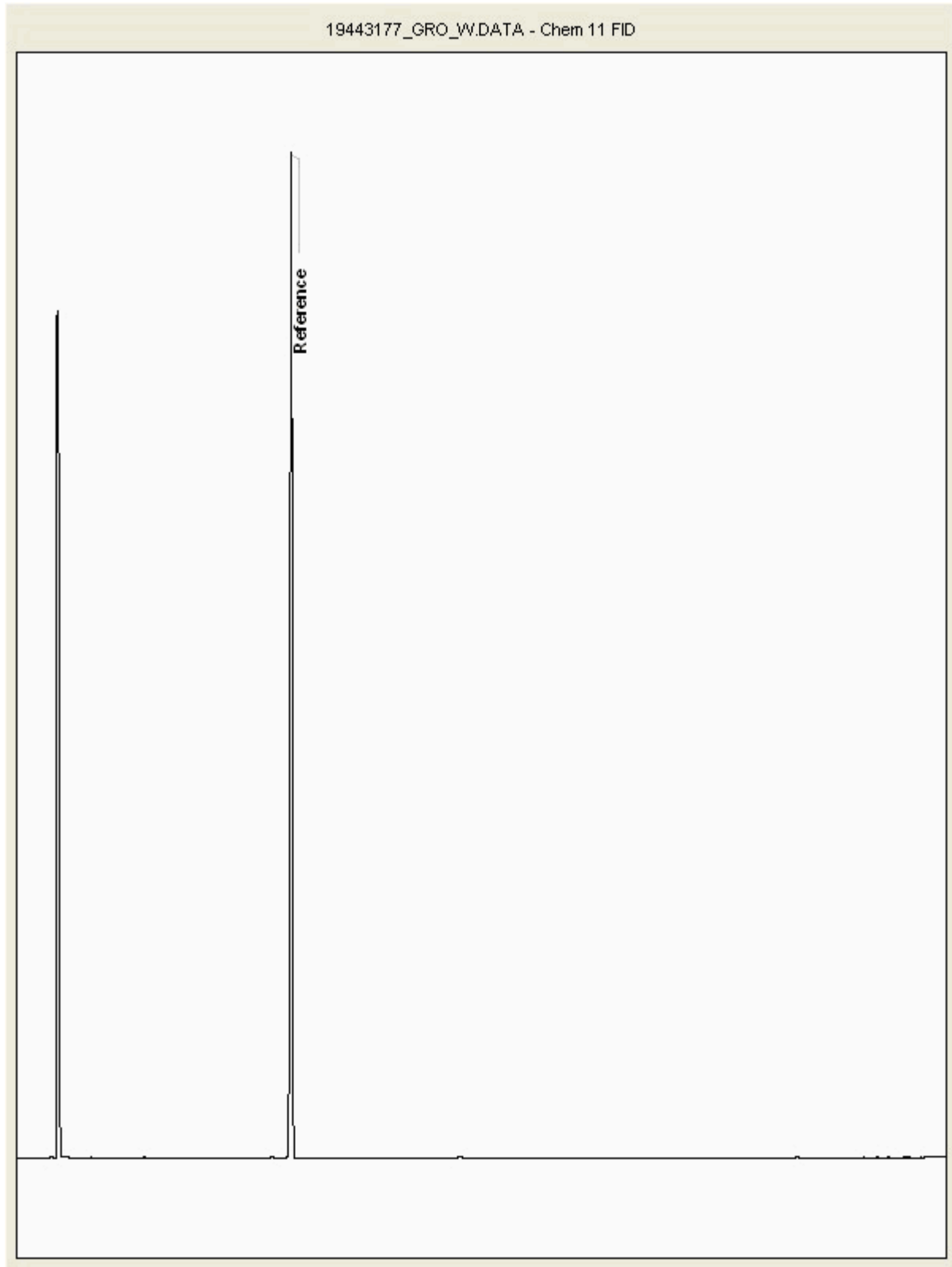
Report Number: 495559
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19443177
Sample ID : BH108A

Depth :





CERTIFICATE OF ANALYSIS

SDG: 190222-61	Client Reference:	Report Number: 495559
Location: Not Specified	Order Number: P2021550	Superseded Report:

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestost Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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Website: www.alsenvironmental.co.uk

RSK Group Plc
Unit B
Bluebell Business Centre
Old Naas Road
Dublin
Dublin 12

Attention: Paul Feely

CERTIFICATE OF ANALYSIS

Date of report Generation: 04 March 2019
Customer: D_RSK_DUB
Sample Delivery Group (SDG): 190220-74
Your Reference:
Location: Not Specified
Report No: 495248

We received 7 samples on Wednesday February 20, 2019 and 7 of these samples were scheduled for analysis which was completed on Monday March 04, 2019. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Received Sample Overview

Table with 5 columns: Lab Sample No(s), Customer Sample Ref., AGS Ref., Depth (m), and Sampled Date. It lists 8 sample entries with their respective details.

Maximum Sample/Coolbox Temperature (°C) : 9.0

ISO5667-3 Water quality - Sampling - Part3 - During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74 **Client Reference:** **Report Number:** 495248
Location: Not Specified **Order Number:** P2021550 **Superseded Report:**

Results Legend

- X Test
- N No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container		Sample Type															
					0.5l glass bottle (ALE227)	500ml Plastic (ALE208)		Vial (ALE297)	ZnAc (ALE246)	0.5l glass bottle (ALE227)	500ml Plastic (ALE208)	Vial (ALE297)	ZnAc (ALE246)	0.5l glass bottle (ALE227)	500ml Plastic (ALE208)	Vial (ALE297)	ZnAc (ALE246)					
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 7						X		X				X				X				
Anions by Kone (w)	All	NDPs: 0 Tests: 7							X		X				X				X			
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 7							X		X				X				X			
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 7							X		X				X				X			
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 7						X		X				X					X			
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 7						X		X				X					X			
Fluoride	All	NDPs: 0 Tests: 7							X		X				X				X			
GRO by GC-FID (W)	All	NDPs: 0 Tests: 7								X		X			X				X			
Hexavalent Chromium (w)	All	NDPs: 0 Tests: 7							X		X				X				X			
Mercury Dissolved	All	NDPs: 0 Tests: 7							X		X				X				X			
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 7						X		X				X					X			
PCB Congeners - Aqueous (W)	All	NDPs: 0 Tests: 7						X		X				X					X			
Phenols by HPLC (W)	All	NDPs: 0 Tests: 7						X		X				X					X			
Sulphide	All	NDPs: 0 Tests: 7								X			X		X				X			X
Suspended Solids	All	NDPs: 0 Tests: 7							X		X				X				X			

19394214	BH111A			Zinc (ALE246)	GW						
				Vial (ALE297)	GW						
				500ml Plastic (ALE208)	GW			X			
				0.5l glass bottle (ALE227)	GW	X					
				Zinc (ALE246)	GW						X
19394212	BH110A			Vial (ALE297)	GW						
				500ml Plastic (ALE208)	GW		X				
				0.5l glass bottle (ALE227)	GW	X					
				Vial (ALE297)	GW					X	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

Results Legend			Customer Sample Ref.		BH110	BH112	BH113	BH213	BH214	BH110A
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. - Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*\$@ Sample deviation (see appendix)	Depth (m)	Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
	Date Sampled	Sampled Time	19/02/2019	19/02/2019	18/02/2019	19/02/2019	19/02/2019	19/02/2019	19/02/2019	19/02/2019
	Date Received	SDG Ref	20/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019
	Lab Sample No.(s)	AGS Reference	190220-74 19394210	190220-74 19394215	190220-74 19394216	190220-74 19394218	190220-74 19394218	190220-74 19394219	190220-74 19394212	190220-74 19394212
Component	LOD/Units	Method								
Suspended solids, Total	<2 mg/l	TM022	2.85	28 #	54.2 #	10.9 #	92.8 #	7.65		
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	<0.2	15 2	3.49 2 #	0.826 2 #	55.7 2 #	<0.2		2
Sulphide	<0.01 mg/l	TM101	<0.01	<0.01 #	<0.01 #	<0.01 #	0.116 #	<0.01		
Fluoride	<0.5 mg/l	TM104	1.05	<0.5 #	<0.5 #	0.896 #	2.65 #	1.06		
Dissolved solids, Total (meter)	<5 mg/l	TM123	1060	1300 #	727 #	609 #	3440 #	976		
Arsenic (diss.filt)	<0.5 µg/l	TM152	3.45	4.65 2	4.68 2 #	7.49 2 #	15.5 2 #	3.58		2
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08	<0.08 2	<0.08 2 #	<0.08 2 #	<0.08 2 #	<0.08		2
Chromium (diss.filt)	<1 µg/l	TM152	<1	<1 2	<1 2 #	<1 2 #	2.23 2 #	<1		2
Copper (diss.filt)	<0.3 µg/l	TM152	<0.3	<0.3 2	<0.3 2 #	1.26 2 #	<0.3 2 #	<0.3		2
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	<0.2 2	<0.2 2 #	<0.2 2 #	3.07 2 #	<0.2		2
Nickel (diss.filt)	<0.4 µg/l	TM152	0.841	5.86 2	4.46 2 #	3.78 2 #	8.99 2 #	1.04		2
Selenium (diss.filt)	<1 µg/l	TM152	<1	<1 2	<1 2 #	<1 2 #	<1 2 #	<1		2
Zinc (diss.filt)	<1 µg/l	TM152	1.35	2.83 2	5.32 2 #	6.42 2 #	2.23 2 #	146		2
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01 2	<0.01 2 #	<0.01 2 #	<0.01 2 #	<0.01		2
Sulphate	<2 mg/l	TM184	116	88.6 #	332 #	82.6 #	363 #	117		
Chloride	<2 mg/l	TM184	312	82.4 #	24 #	108 #	389 #	269		
PCB congener 28	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
PCB congener 52	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
PCB congener 101	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
PCB congener 118	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
PCB congener 138	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
PCB congener 153	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
PCB congener 180	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105		<0.105
Cyanide, Total	<0.05 mg/l	TM227	<0.05	<0.05 2	<0.05 2 #	<0.05 2 #	<0.05 2 #	<0.05		2
Chromium, Hexavalent	<0.03 mg/l	TM241	<0.03	<0.03 #	<0.03 #	<0.03 #	<0.03 #	<0.03		
Phenol	<0.002 mg/l	TM259	<0.002	<0.002 2	<0.002 2 #	<0.002 2 #	<0.002 2 #	<0.002		2
Cresols	<0.006 mg/l	TM259	<0.006	<0.006 2	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006		2
Xylenols	<0.008 mg/l	TM259	<0.008	<0.008 2	<0.008 2 #	<0.008 2 #	<0.008 2 #	<0.008		2
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003	<0.003 2	<0.003 2 #	<0.003 2 #	<0.003 2 #	<0.003		2
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006	<0.006 2	<0.006 2 #	<0.006 2 #	<0.006 2 #	<0.006		2
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	<0.025	<0.025 2	<0.025 2	<0.025 2	<0.025 2	<0.025		2



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

Results Legend		Customer Sample Ref.					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*\$@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH111A Ground Water (GW) 18/02/2019 20/02/2019 190220-74 19394214				
Component	LOD/Units	Method					
Suspended solids, Total	<2 mg/l	TM022	24.5	#			
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	1.28	2 #			
Sulphide	<0.01 mg/l	TM101	<0.01	#			
Fluoride	<0.5 mg/l	TM104	0.649	#			
Dissolved solids, Total (meter)	<5 mg/l	TM123	1200	#			
Arsenic (diss.filt)	<0.5 µg/l	TM152	<0.5	2 #			
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08	2 #			
Chromium (diss.filt)	<1 µg/l	TM152	2.9	2 #			
Copper (diss.filt)	<0.3 µg/l	TM152	8.65	2 #			
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	2 #			
Nickel (diss.filt)	<0.4 µg/l	TM152	8.57	2 #			
Selenium (diss.filt)	<1 µg/l	TM152	<1	2 #			
Zinc (diss.filt)	<1 µg/l	TM152	1.1	2 #			
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	2 #			
Sulphate	<2 mg/l	TM184	66.2	#			
Chloride	<2 mg/l	TM184	64.7	#			
PCB congener 28	<0.015 µg/l	TM197	<0.015				
PCB congener 52	<0.015 µg/l	TM197	<0.015				
PCB congener 101	<0.015 µg/l	TM197	<0.015				
PCB congener 118	<0.015 µg/l	TM197	<0.015				
PCB congener 138	<0.015 µg/l	TM197	<0.015				
PCB congener 153	<0.015 µg/l	TM197	<0.015				
PCB congener 180	<0.015 µg/l	TM197	<0.015				
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105				
Cyanide, Total	<0.05 mg/l	TM227	<0.05	2 #			
Chromium, Hexavalent	<0.03 mg/l	TM241	<0.03	#			
Phenol	<0.002 mg/l	TM259	0.01	2 #			
Cresols	<0.006 mg/l	TM259	<0.006	2 #			
Xylenols	<0.008 mg/l	TM259	<0.008	2 #			
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003	2 #			
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006	2 #			
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	<0.025	2			



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH110	BH112	BH113	BH213	BH214	BH110A	
#	ISO17025 accredited.									
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-3*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	Sample Type	Date Sampled	Sampled Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394210	
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394215	
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		Ground Water (GW)	18/02/2019				190220-74 19394216	
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394218	
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2-Chloronaphthalene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2-Chlorophenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2-Methylnaphthalene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2-Methylphenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2-Nitroaniline (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
2-Nitrophenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
3-Nitroaniline (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
4-Chloroaniline (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
4-Methylphenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
4-Nitroaniline (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
4-Nitrophenol (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
Azobenzene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
Acenaphthylene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
Acenaphthene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
Anthracene (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		Ground Water (GW)	19/02/2019				190220-74 19394219	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample Ref.	BH110	BH112	BH113	BH213	BH214	BH110A	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	
M	mCERTS accredited.			19/02/2019	19/02/2019	18/02/2019	19/02/2019	19/02/2019	19/02/2019	19/02/2019
aq	Aqueous / settled sample.			20/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019	20/02/2019
diss.filt	Dissolved / filtered sample.			190220-74	190220-74	190220-74	190220-74	190220-74	190220-74	190220-74
tot.unfilt	Total / unfiltered sample.			19394210	19394215	19394216	19394218	19394219	19394219	19394212
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-3*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Carbazole (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Chrysene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Dibenzofuran (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Diethyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5	<5	<5	<5	<10	<5		
Fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Fluorene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Pentachlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Phenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Hexachloroethane (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Nitrobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Naphthalene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Isophorone (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Phenanthrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		
Pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	<2	<1		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample Ref.	BH111A				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*@\$@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 18/02/2019 20/02/2019 190220-74 19394214				
Component	LOD/Units	Method					
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1	#			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	#			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	#			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1	#			
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1	#			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1	#			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1	#			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1	#			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	#			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1	#			
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1	#			
2-Chlorophenol (aq)	<1 µg/l	TM176	<1	#			
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1	#			
2-Methylphenol (aq)	<1 µg/l	TM176	<1	#			
2-Nitroaniline (aq)	<1 µg/l	TM176	<1	#			
2-Nitrophenol (aq)	<1 µg/l	TM176	<1	#			
3-Nitroaniline (aq)	<1 µg/l	TM176	<1	#			
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1	#			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1	#			
4-Chloroaniline (aq)	<1 µg/l	TM176	<1	#			
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1	#			
4-Methylphenol (aq)	<1 µg/l	TM176	<1	#			
4-Nitroaniline (aq)	<1 µg/l	TM176	<1	#			
4-Nitrophenol (aq)	<1 µg/l	TM176	<1	#			
Azobenzene (aq)	<1 µg/l	TM176	<1	#			
Acenaphthylene (aq)	<1 µg/l	TM176	<1	#			
Acenaphthene (aq)	<1 µg/l	TM176	<1	#			
Anthracene (aq)	<1 µg/l	TM176	<1	#			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1	#			
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1	#			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2	#			
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1	#			



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
 Location: Not Specified

Client Reference:
 Order Number: P2021550

Report Number: 495248
 Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample Ref.	BH111A					
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 18/02/2019 20/02/2019 190220-74 19394214					
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-3*\$@	Sample deviation (see appendix)							
Component	LOD/Units			Method				
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1	#				
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1	#				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1	#				
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1	#				
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1	#				
Carbazole (aq)	<1 µg/l	TM176	<1	#				
Chrysene (aq)	<1 µg/l	TM176	<1	#				
Dibenzofuran (aq)	<1 µg/l	TM176	<1	#				
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1	#				
Diethyl phthalate (aq)	<1 µg/l	TM176	<1	#				
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1	#				
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1	#				
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5	#				
Fluoranthene (aq)	<1 µg/l	TM176	<1	#				
Fluorene (aq)	<1 µg/l	TM176	<1	#				
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1	#				
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1	#				
Pentachlorophenol (aq)	<1 µg/l	TM176	<1	#				
Phenol (aq)	<1 µg/l	TM176	2.17					
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1	#				
Hexachloroethane (aq)	<1 µg/l	TM176	<1	#				
Nitrobenzene (aq)	<1 µg/l	TM176	<1	#				
Naphthalene (aq)	<1 µg/l	TM176	<1	#				
Isophorone (aq)	<1 µg/l	TM176	<1	#				
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1	#				
Phenanthrene (aq)	<1 µg/l	TM176	<1	#				
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1	#				
Pyrene (aq)	<1 µg/l	TM176	<1	#				



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

TPH CWG (W)

Results Legend			Customer Sample Ref.	BH110	BH112	BH113	BH213	BH214	BH110A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 19/02/2019	Ground Water (GW) 19/02/2019	Ground Water (GW) 18/02/2019	Ground Water (GW) 19/02/2019	Ground Water (GW) 19/02/2019	Ground Water (GW) 19/02/2019
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM245	100	91	96	99	92	108	
GRO >C5-C12	<50 µg/l	TM245	<50	<50	<50	<50	<50	<50	
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	
Benzene	<7 µg/l	TM245	<7	<7	<7	<7	<7	<7	
Toluene	<4 µg/l	TM245	<4	<4	<4	<4	<4	<4	
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5	<5	<5	<5	
m,p-Xylene	<8 µg/l	TM245	<8	<8	<8	<8	<8	<8	
o-Xylene	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11	<11	<11	
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28	<28	<28	
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

TPH CWG (W)

Results Legend		Customer Sample Ref.	BH111A				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*\$@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 18/02/2019 20/02/2019 190220-74 19394214				
Component	LOD/Units	Method					
GRO Surrogate % recovery**	%	TM245	95				
GRO >C5-C12	<50 µg/l	TM245	<50	#			
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3				
Benzene	<7 µg/l	TM245	<7				
Toluene	<4 µg/l	TM245	<4				
Ethylbenzene	<5 µg/l	TM245	<5				
m,p-Xylene	<8 µg/l	TM245	<8				
o-Xylene	<3 µg/l	TM245	<3				
Sum of detected Xylenes	<11 µg/l	TM245	<11				
Sum of detected BTEX	<28 µg/l	TM245	<28				
Aliphatics >C5-C6	<10 µg/l	TM245	<10				
Aliphatics >C6-C8	<10 µg/l	TM245	<10				
Aliphatics >C8-C10	<10 µg/l	TM245	<10				
Aliphatics >C10-C12	<10 µg/l	TM245	<10				
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<20				
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<20				
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<20				
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<20				
Aromatics >EC5-EC7	<10 µg/l	TM245	<10				
Aromatics >EC7-EC8	<10 µg/l	TM245	<10				
Aromatics >EC8-EC10	<10 µg/l	TM245	<10				
Aromatics >EC10-EC12	<10 µg/l	TM245	<10				
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<20				
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<20				
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<20				
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<20				
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10				
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<20				



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.		BH110	BH112	BH113	BH213	BH214	BH110A
#	ISO17025 accredited.		Depth (m)	Sample Type	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
M	mCERTS accredited.				19/02/2019	19/02/2019	18/02/2019	19/02/2019	19/02/2019	19/02/2019	19/02/2019
aq	Aqueous / settled sample.		Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
diss.filt	Dissolved / filtered sample.		Sampled Time	Sampled Time	Sampled Time	Sampled Time	Sampled Time	Sampled Time	Sampled Time	Sampled Time
tot.unfilt	Total / unfiltered sample.		Date Received	Date Received	Date Received	Date Received	Date Received	Date Received	Date Received	Date Received
*	Subcontracted test.		SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)
(F)	Trigger breach confirmed		AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference
1-3*@\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208	121	113	114	114	118	117		
Toluene-d8**	%	TM208	99.4	99.7	98.8	99.6	101	98.3		
4-Bromofluorobenzene**	%	TM208	102	103	100	97.5	103	98		
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Chloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Bromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Chloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	<3	<3	<3		
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Chloroform	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Benzene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
Toluene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1		



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.	BH110	BH112	BH113	BH213	BH214	BH110A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 19/02/2019	Ground Water (GW) 19/02/2019	Ground Water (GW) 18/02/2019	Ground Water (GW) 19/02/2019	Ground Water (GW) 19/02/2019	Ground Water (GW) 19/02/2019
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-3*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
1,3-Dichloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2-Dibromoethane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Chlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Ethylbenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
m,p-Xylene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
o-Xylene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Styrene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Bromoform	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Isopropylbenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Bromobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Propylbenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
4-iso-Propyltoluene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
n-Butylbenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1
Naphthalene	<1 µg/l	TM208		<1	<1	<1	<1	<1	<1



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	BH111A				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*@\$@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Ground Water (GW) 18/02/2019 20/02/2019 190220-74 19394214				
Component	LOD/Units	Method					
Dibromofluoromethane**	%	TM208	0.64				
Toluene-d8**	%	TM208	99.1				
4-Bromofluorobenzene**	%	TM208	99.3				
Dichlorodifluoromethane	<1 µg/l	TM208	<1				
Chloromethane	<1 µg/l	TM208	<1	#			
Vinyl chloride	<1 µg/l	TM208	<1	#			
Bromomethane	<1 µg/l	TM208	<1	#			
Chloroethane	<1 µg/l	TM208	<1	#			
Trichlorofluoromethane	<1 µg/l	TM208	<1	#			
1,1-Dichloroethene	<1 µg/l	TM208	<1	#			
Carbon disulphide	<1 µg/l	TM208	<1	#			
Dichloromethane	<3 µg/l	TM208	<3	#			
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	#			
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	#			
1,1-Dichloroethane	<1 µg/l	TM208	<1	#			
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	#			
2,2-Dichloropropane	<1 µg/l	TM208	<1	#			
Bromochloromethane	<1 µg/l	TM208	<1	#			
Chloroform	<1 µg/l	TM208	<1	#			
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	#			
1,1-Dichloropropene	<1 µg/l	TM208	<1	#			
Carbontetrachloride	<1 µg/l	TM208	<1	#			
1,2-Dichloroethane	<1 µg/l	TM208	<1	#			
Benzene	<1 µg/l	TM208	<1	#			
Trichloroethene	<1 µg/l	TM208	<1	#			
1,2-Dichloropropane	<1 µg/l	TM208	<1	#			
Dibromomethane	<1 µg/l	TM208	<1	#			
Bromodichloromethane	<1 µg/l	TM208	<1	#			
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	#			
Toluene	<1 µg/l	TM208	<1	#			
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	#			
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	#			



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted test. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-3*\$@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH111A Ground Water (GW) 18/02/2019 20/02/2019 190220-74 19394214					
Component	LOD/Units	Method					
1,3-Dichloropropane	<1 µg/l	TM208	<1	#			
Tetrachloroethene	<1 µg/l	TM208	<1	#			
Dibromochloromethane	<1 µg/l	TM208	<1	#			
1,2-Dibromoethane	<1 µg/l	TM208	<1	#			
Chlorobenzene	<1 µg/l	TM208	<1	#			
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1	#			
Ethylbenzene	<1 µg/l	TM208	<1	#			
m,p-Xylene	<1 µg/l	TM208	<1	#			
o-Xylene	<1 µg/l	TM208	<1	#			
Styrene	<1 µg/l	TM208	<1	#			
Bromoform	<1 µg/l	TM208	<1	#			
Isopropylbenzene	<1 µg/l	TM208	<1	#			
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1	#			
1,2,3-Trichloropropane	<1 µg/l	TM208	<1	#			
Bromobenzene	<1 µg/l	TM208	<1	#			
Propylbenzene	<1 µg/l	TM208	<1	#			
2-Chlorotoluene	<1 µg/l	TM208	<1	#			
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1	#			
4-Chlorotoluene	<1 µg/l	TM208	<1	#			
tert-Butylbenzene	<1 µg/l	TM208	<1	#			
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1	#			
sec-Butylbenzene	<1 µg/l	TM208	<1	#			
4-iso-Propyltoluene	<1 µg/l	TM208	<1	#			
1,3-Dichlorobenzene	<1 µg/l	TM208	<1	#			
1,4-Dichlorobenzene	<1 µg/l	TM208	<1	#			
n-Butylbenzene	<1 µg/l	TM208	<1	#			
1,2-Dichlorobenzene	<1 µg/l	TM208	<1	#			
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1	#			
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1	#			
Hexachlorobutadiene	<1 µg/l	TM208	<1	#			
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1	#			
Naphthalene	<1 µg/l	TM208	<1	#			



CERTIFICATE OF ANALYSIS

Validated

SDG:	190220-74	Client Reference:		Report Number:	495248
Location:	Not Specified	Order Number:	P2021550	Superseded Report:	



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Table of Results - Appendix

Method No	Reference	Description
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM101	Method 4500B & C, AWWA/APHA, 20th Ed., 1999	Determination of Sulphide in soil and water samples using the Kone Analyser
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999	Determination of Fluoride using the Kone Analyser
TM123	BS 2690: Part 121:1981	The Determination of Total Dissolved Solids in Water
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM197	Modified: US EPA Method 8082.EA Method 174 and 5109631	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Waters
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM241	Methods for the Examination of Waters and Associated Materials; Chromium in Raw and Potable Waters and Sewage Effluents 1980.	The Determination of Hexavalent Chromium in Waters and Leachates using the Kone Analyser
TM245	By GC-FID	Determination of GRO by Headspace in waters
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	19394210	19394215	19394216	19394218	19394219	19394212	19394214
	BH110	BH112	BH113	BH213	BH214	BH110A	BH111A
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Ammoniacal Nitrogen	28-Feb-2019	27-Feb-2019	28-Feb-2019	28-Feb-2019	25-Feb-2019	28-Feb-2019	28-Feb-2019
Anions by Kone (w)	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
Cyanide Comp/Free/Total/Thiocyanate	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019
Dissolved Metals by ICP-MS	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019
EPH CWG (Aliphatic) Aqueous GC (W)	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	27-Feb-2019
EPH CWG (Aromatic) Aqueous GC (W)	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	27-Feb-2019
Fluoride	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019
GRO by GC-FID (W)	25-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	25-Feb-2019	25-Feb-2019	27-Feb-2019
Hexavalent Chromium (w)	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019
Mercury Dissolved	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019
PAH Spec MS - Aqueous (W)	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019
PCB Congeners - Aqueous (W)	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019	28-Feb-2019
Phenols by HPLC (W)	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019	04-Mar-2019
Sulphide	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019	26-Feb-2019
Suspended Solids	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019	22-Feb-2019
SVOC MS (W) - Aqueous	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019
Total Dissolved Solids	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019
TPH CWG (W)	26-Feb-2019	27-Feb-2019	27-Feb-2019	27-Feb-2019	26-Feb-2019	26-Feb-2019	27-Feb-2019
VOC MS (W)	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019	25-Feb-2019



CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

Chromatogram

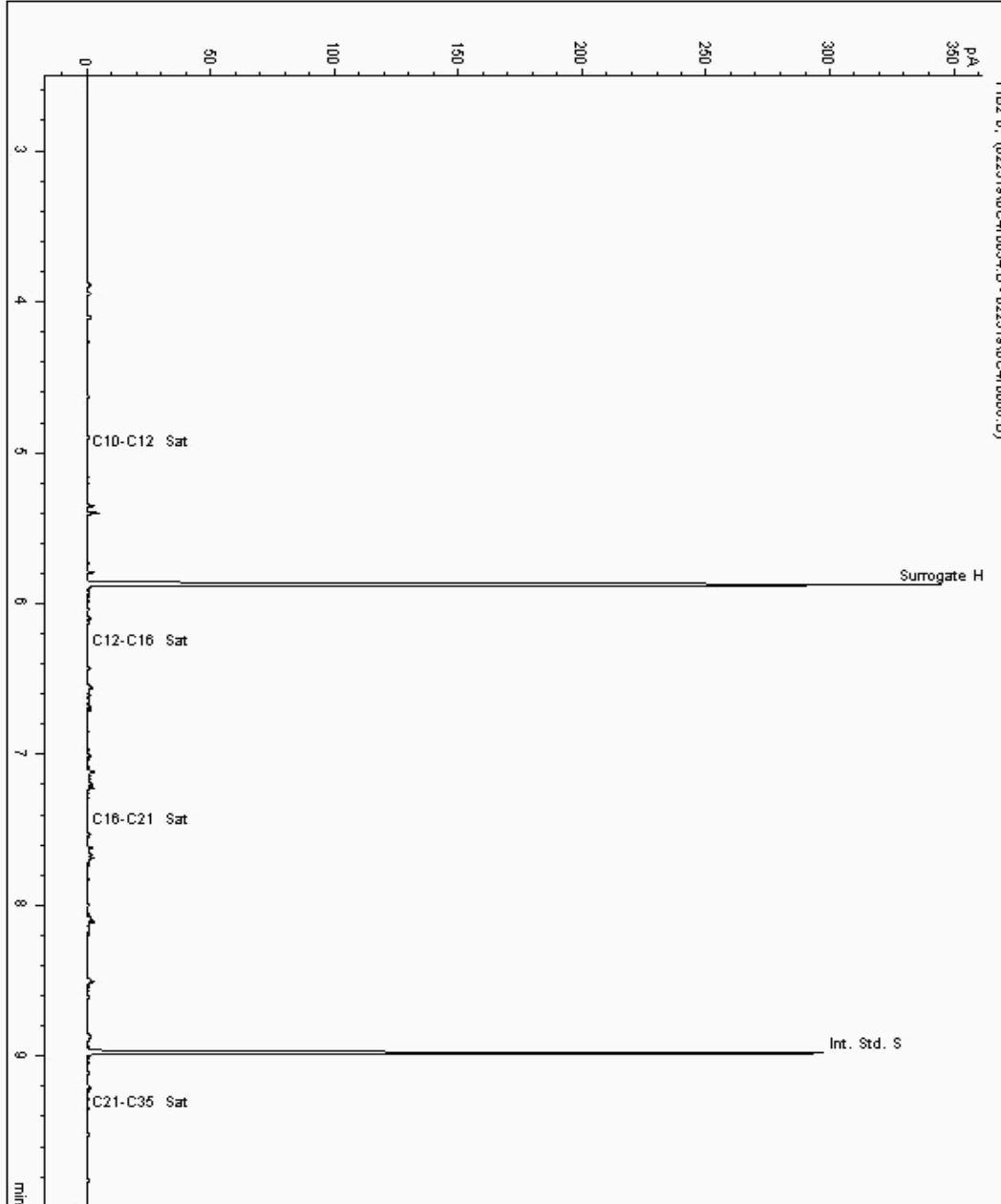
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19409229
Sample ID : BH110A

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18228404-
Date Acquired : 24/02/19 02:51:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

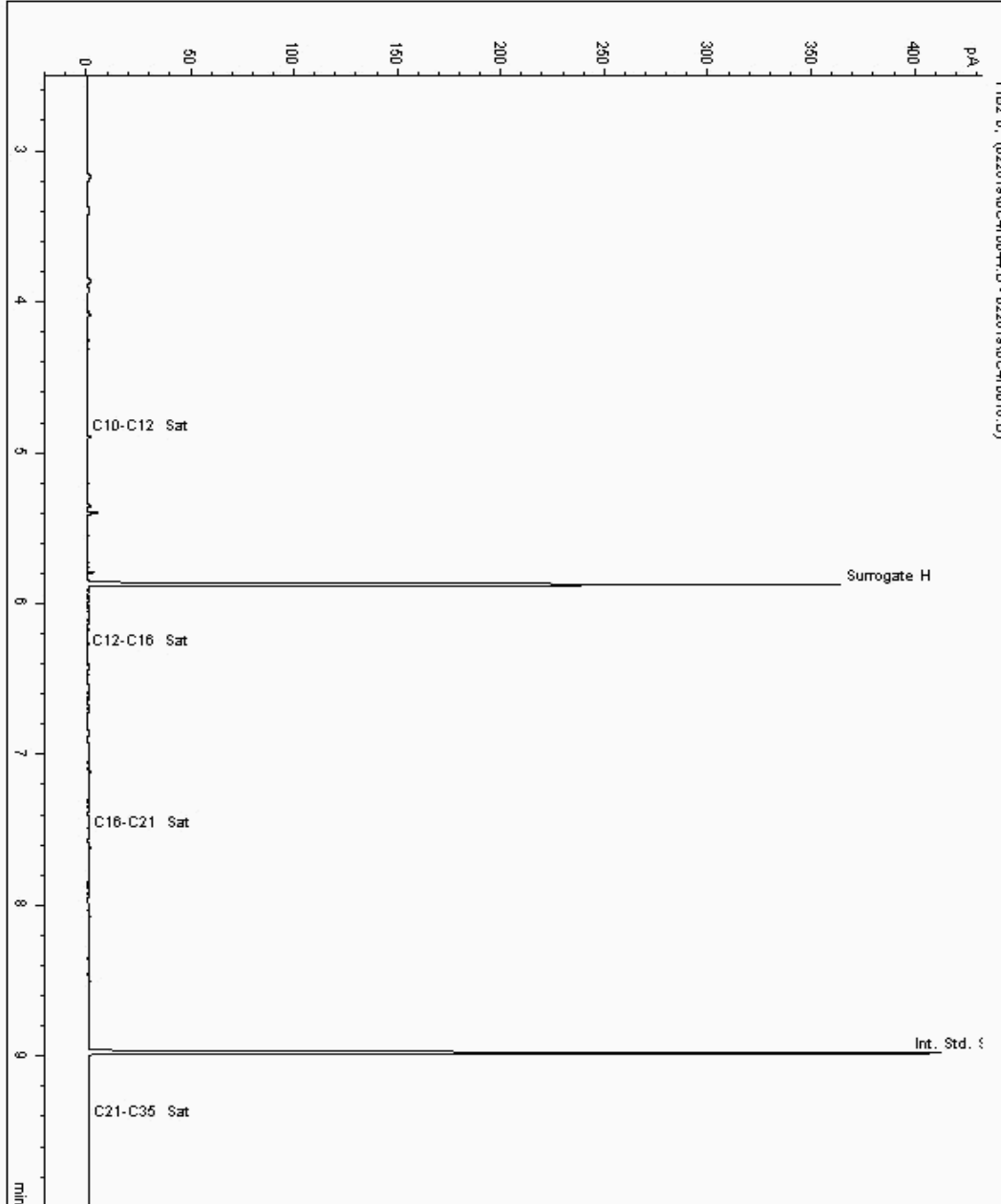
SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 19409233 Depth :
Sample ID : BH111A

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18228436-
Date Acquired : 27/02/19 08:19:50 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.050





CERTIFICATE OF ANALYSIS

Validated

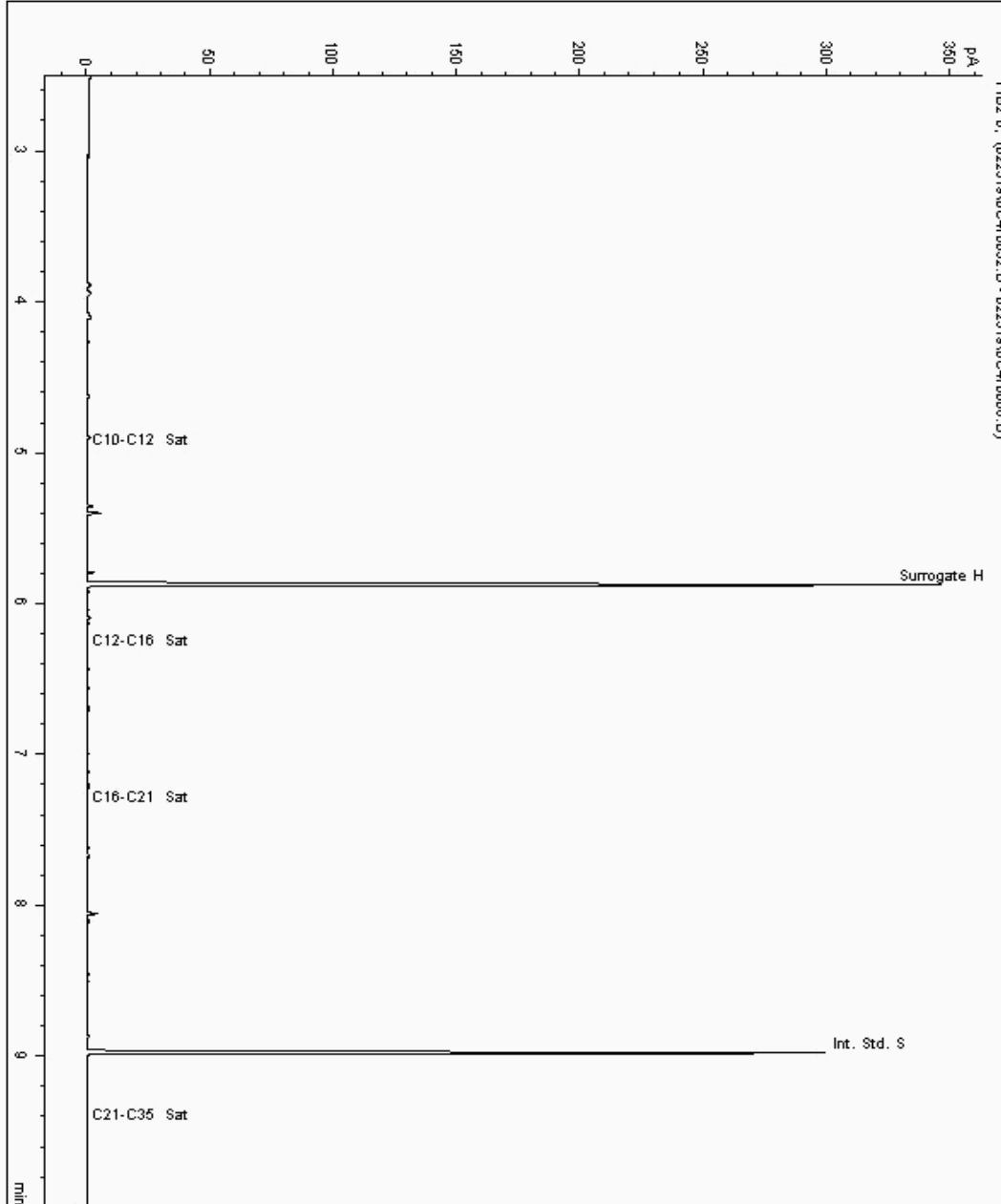
SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 19409237 Depth :
Sample ID : BH113

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18228477-
Date Acquired : 24/02/19 02:05:43 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

Chromatogram

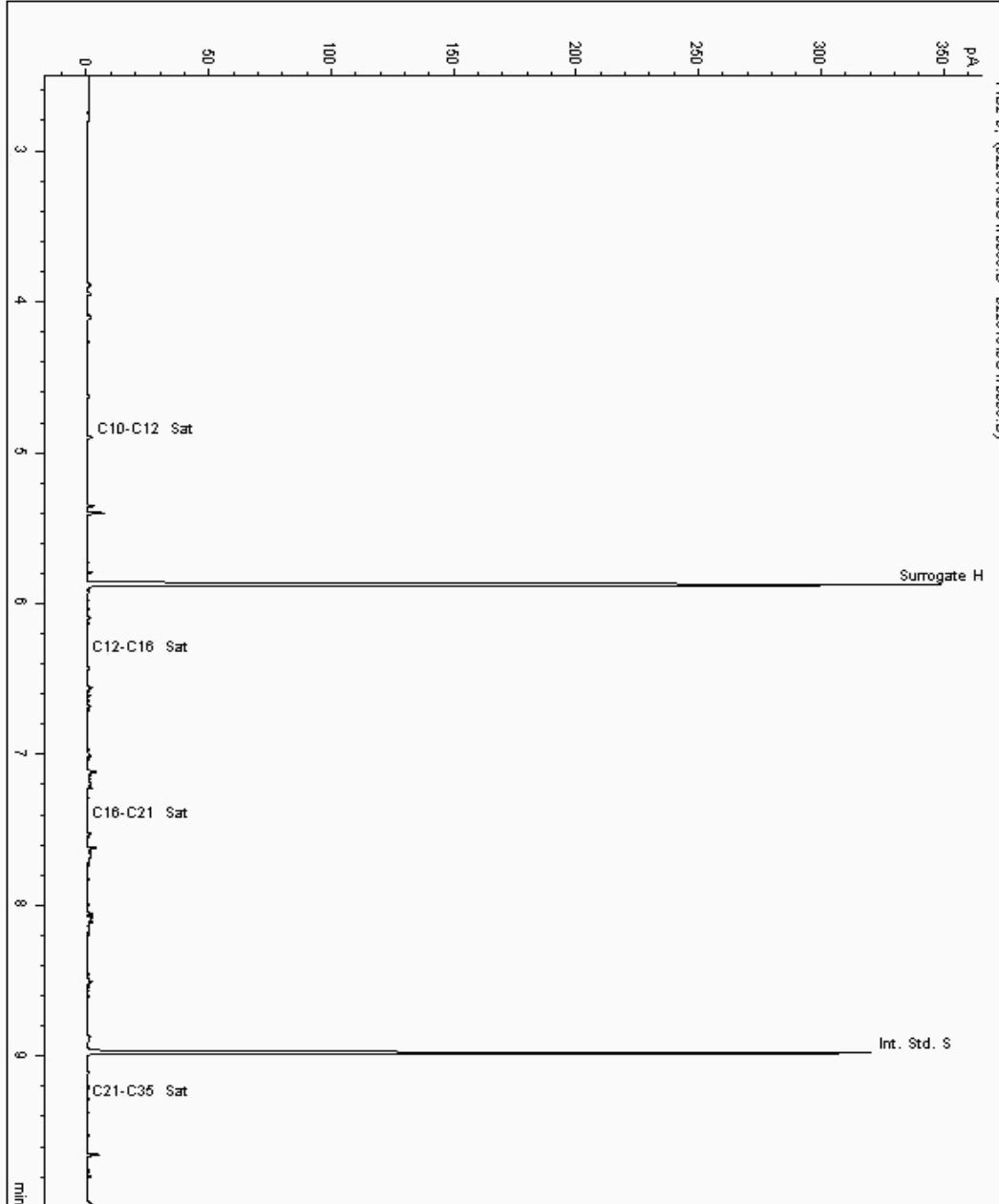
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19409241
Sample ID : BH214

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18228529-
Date Acquired : 24/02/19 03:37:52 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

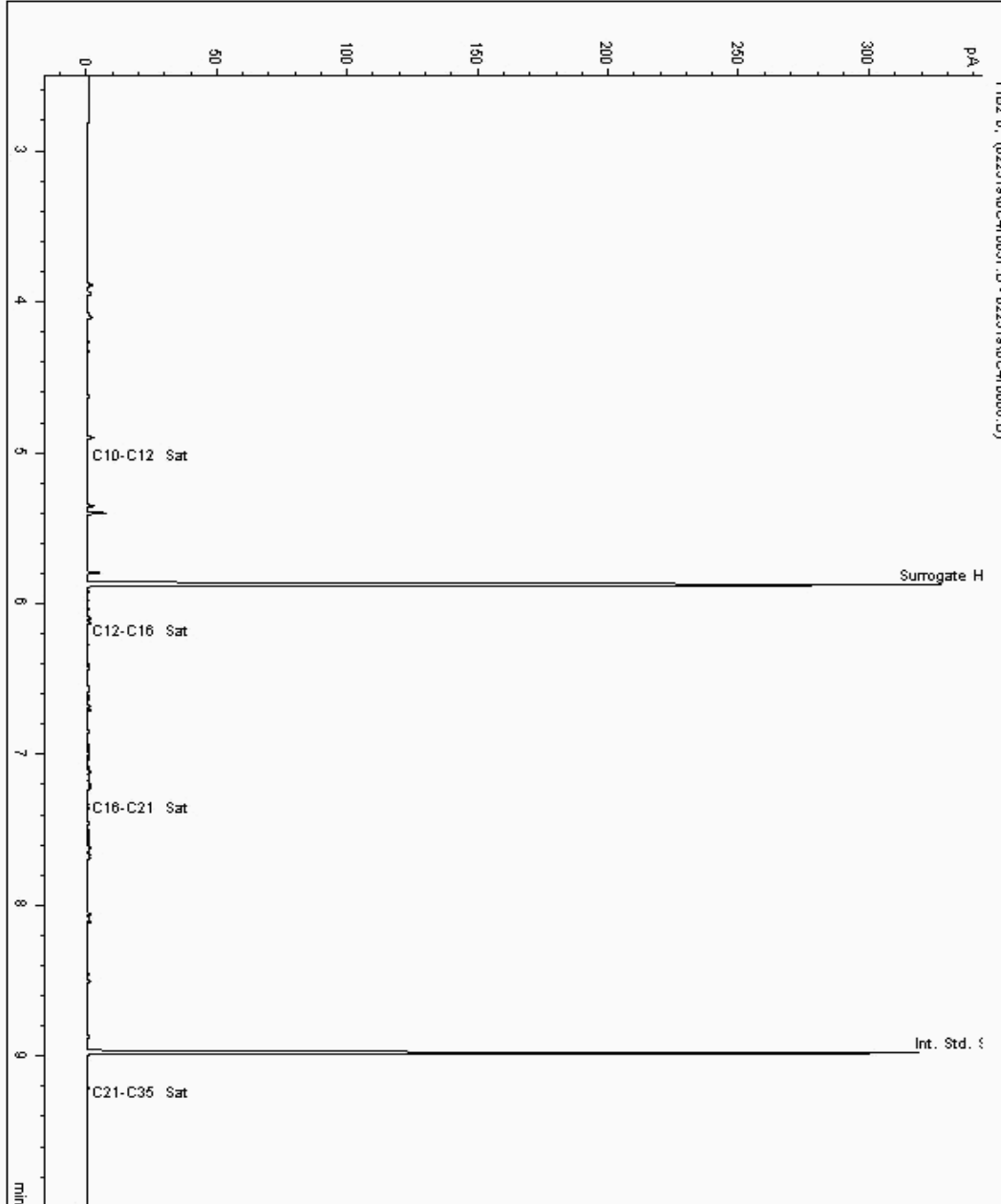
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Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 19409245 Depth :
Sample ID : BH110

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18228377-
Date Acquired : 24/02/19 04:01:17 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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SDG: 190220-74
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Client Reference:
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Report Number: 495248
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Chromatogram

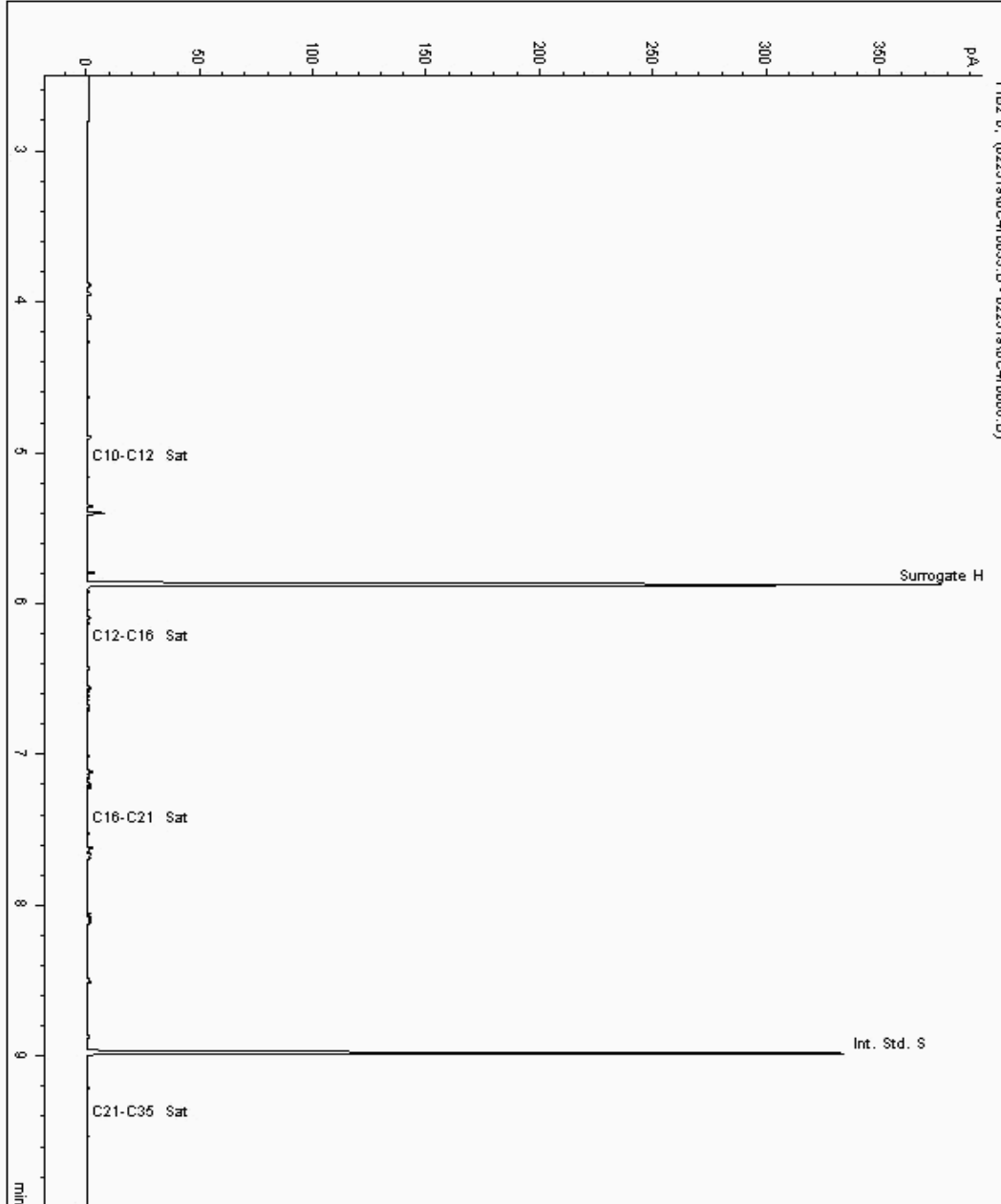
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19409249
Sample ID : BH213

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18228509-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
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Report Number: 495248
Superseded Report:

Chromatogram

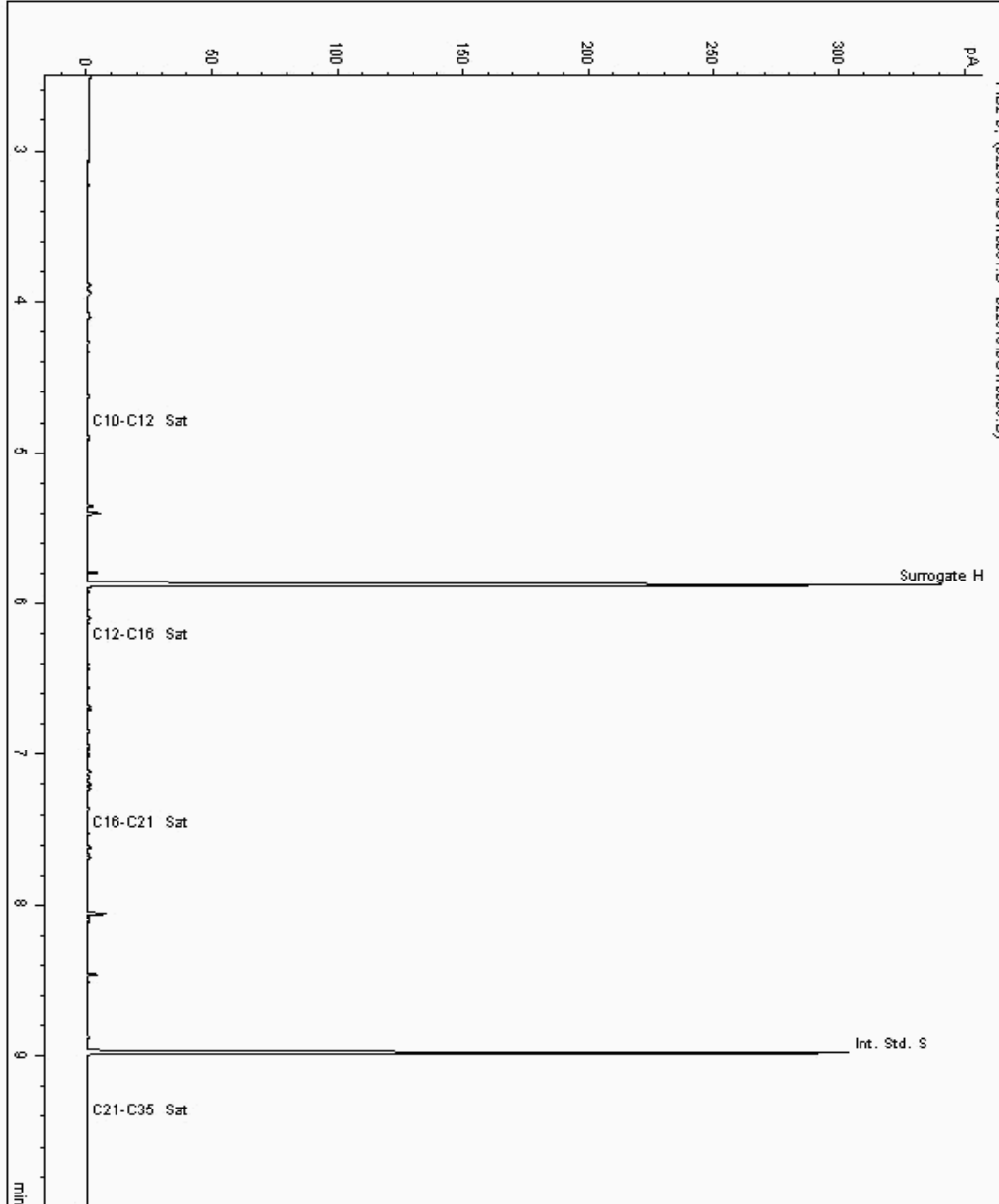
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 19409253
Sample ID : BH112

Depth :

Speciated TPH - SATS (C12 - C40)

Sample Identity: 18228456-
Date Acquired : 24/02/19 01:42:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
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Report Number: 495248
Superseded Report:

Chromatogram

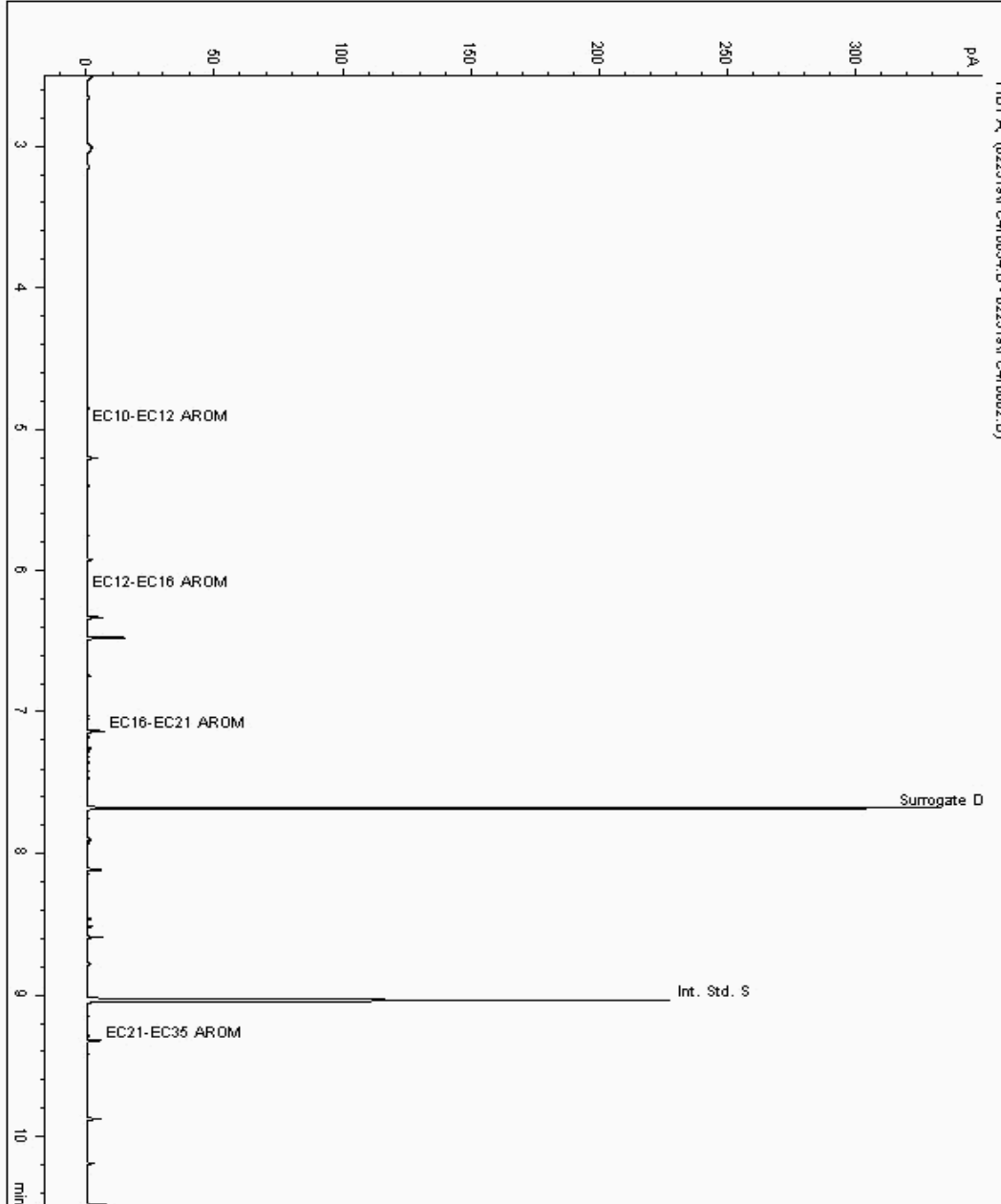
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19409229
Sample ID : BH110A

Depth :

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Sample Identity: 18228405-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

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Report Number: 495248
Superseded Report:

Chromatogram

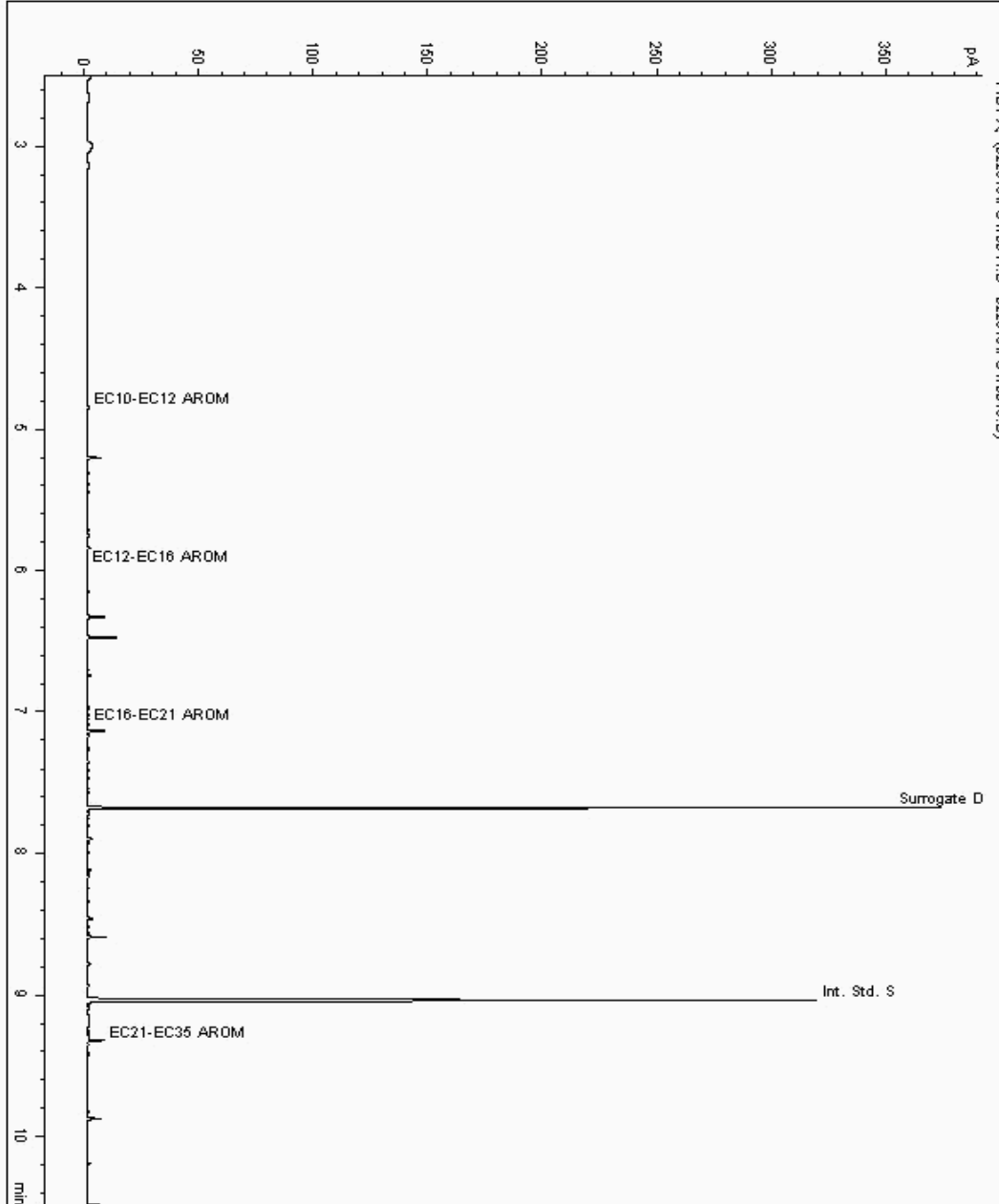
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19409233
Sample ID : BH111A

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18228437-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.050





CERTIFICATE OF ANALYSIS

Validated

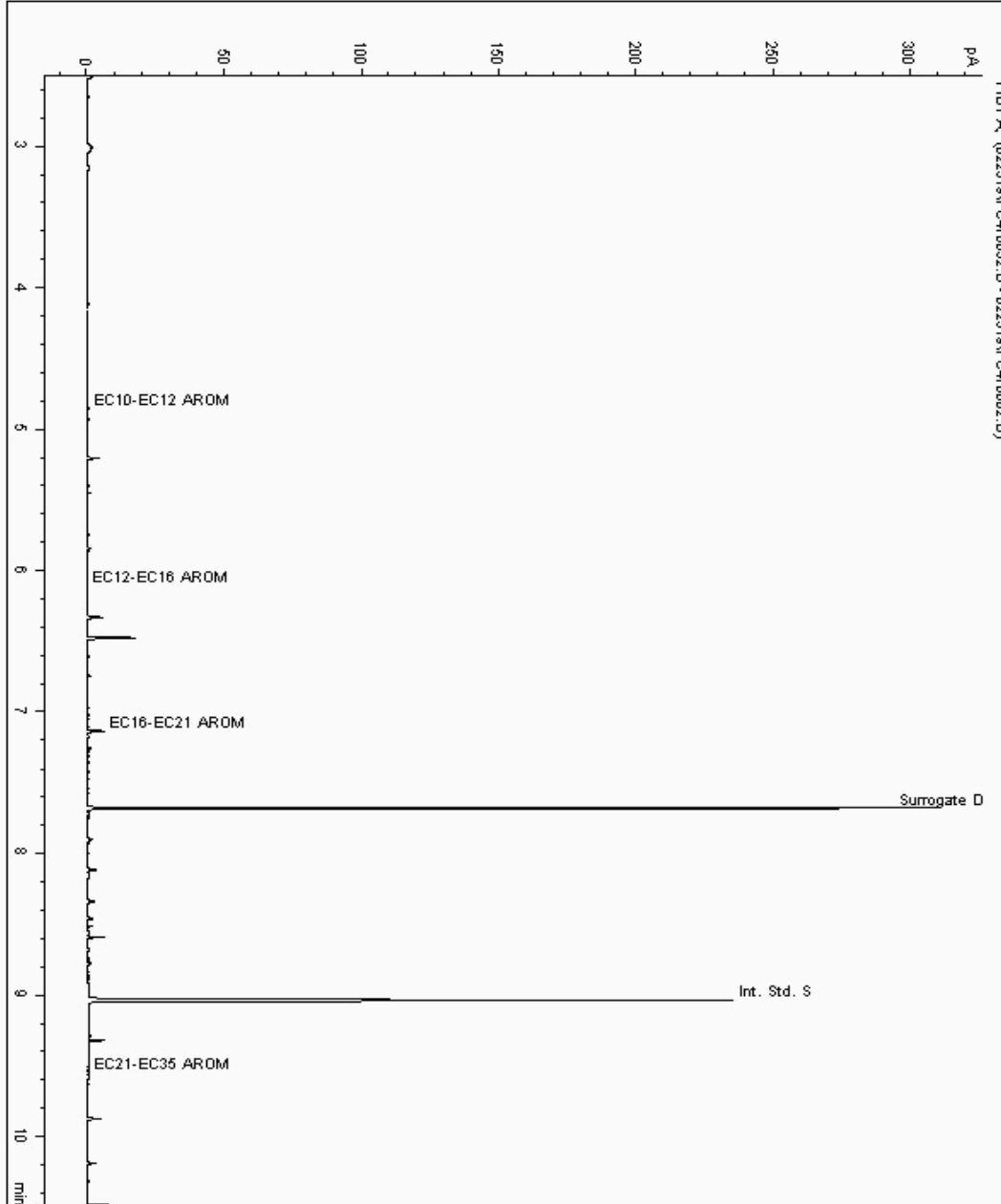
SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 19409237 Depth :
Sample ID : BH113

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18228478-
Date Acquired : 24/02/19 02:05:42 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

Chromatogram

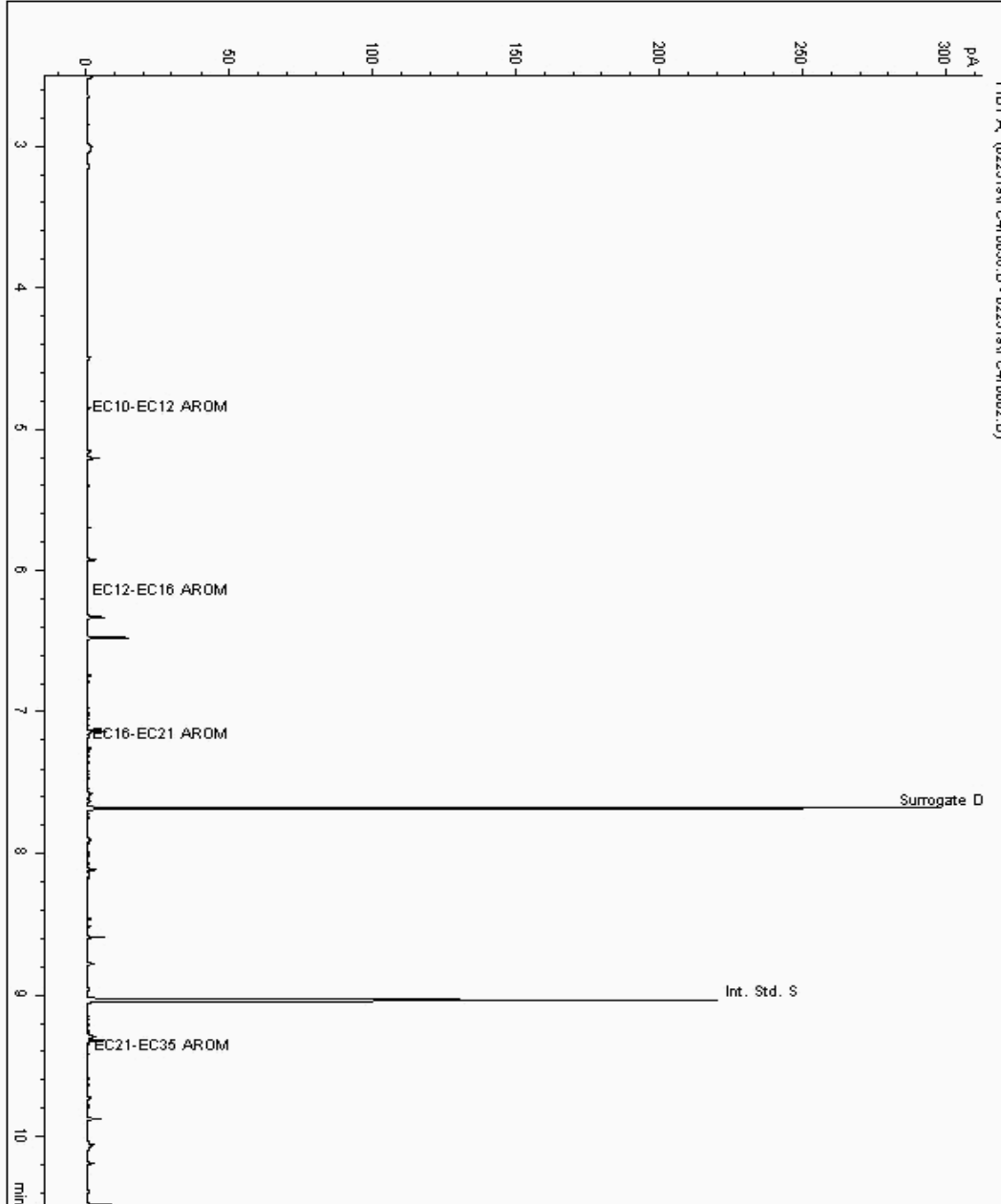
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19409241
Sample ID : BH214

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18228530-
Date Acquired : 24/02/19 03:37:52 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

Chromatogram

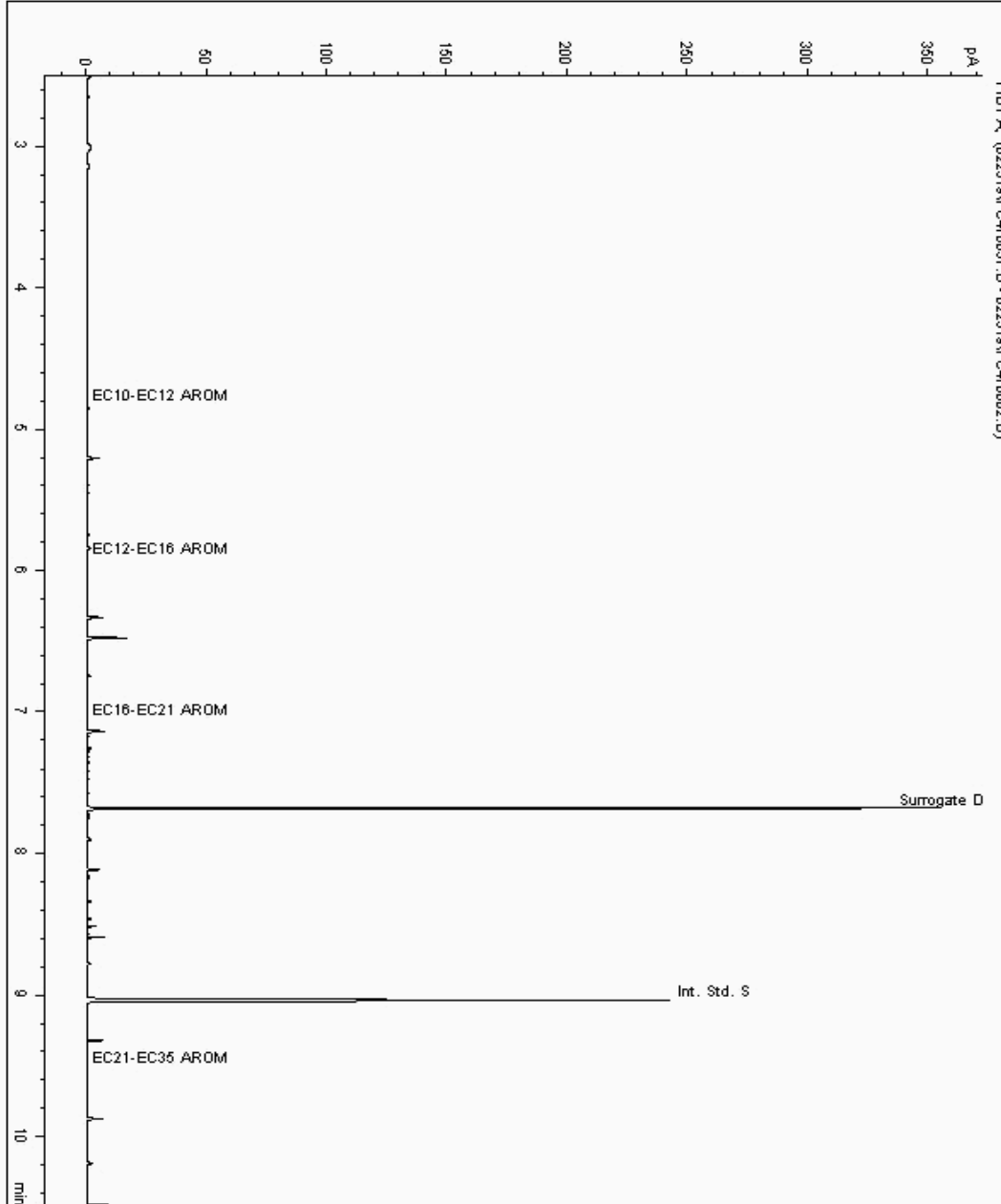
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19409245
Sample ID : BH110

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18228378-
Date Acquired : 24/02/19 04:01:17 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

Report Number: 495248
Superseded Report:

Chromatogram

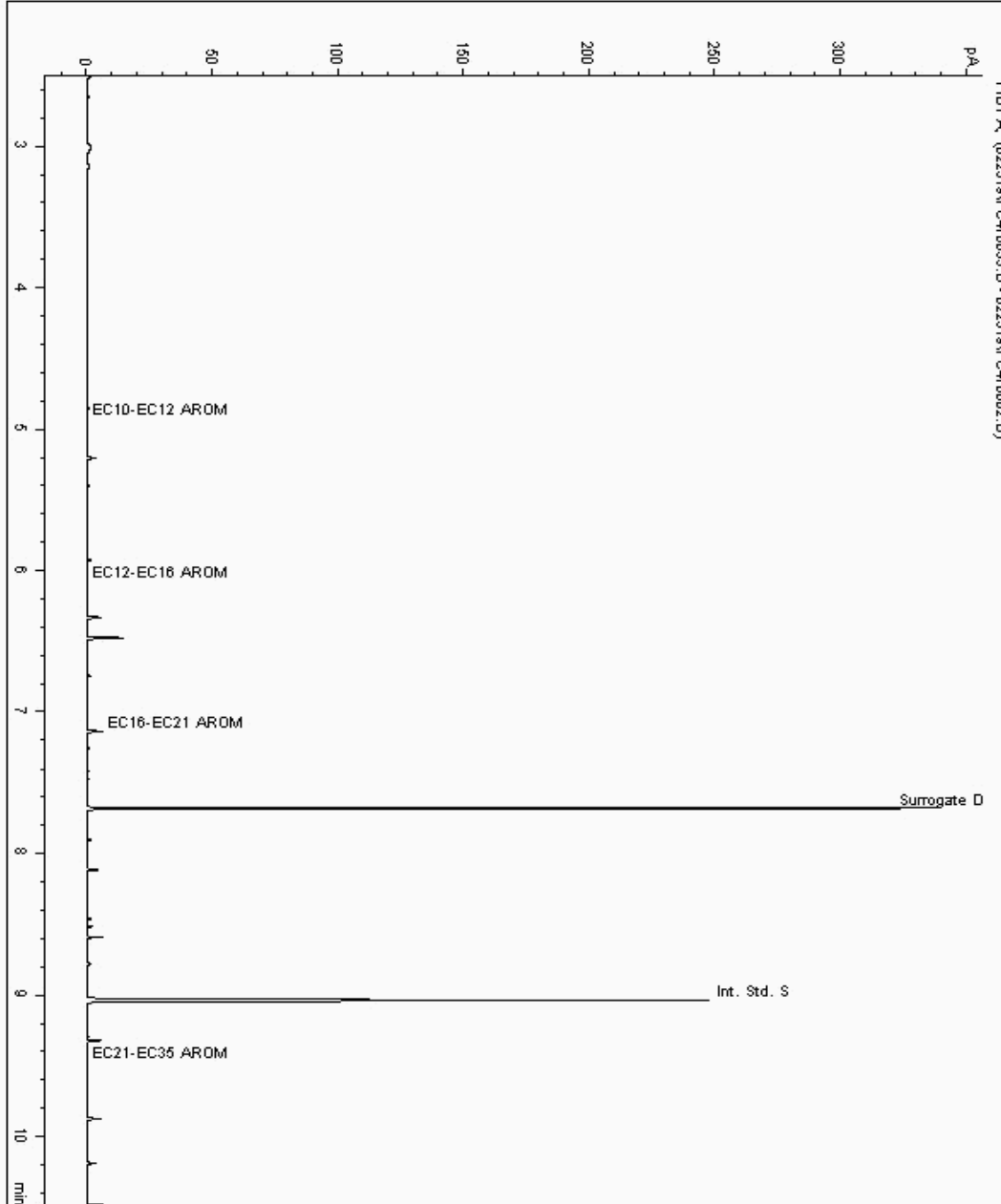
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 19409249
Sample ID : BH213

Depth :

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18228510-
Date Acquired : 24/02/19 02:29:04 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

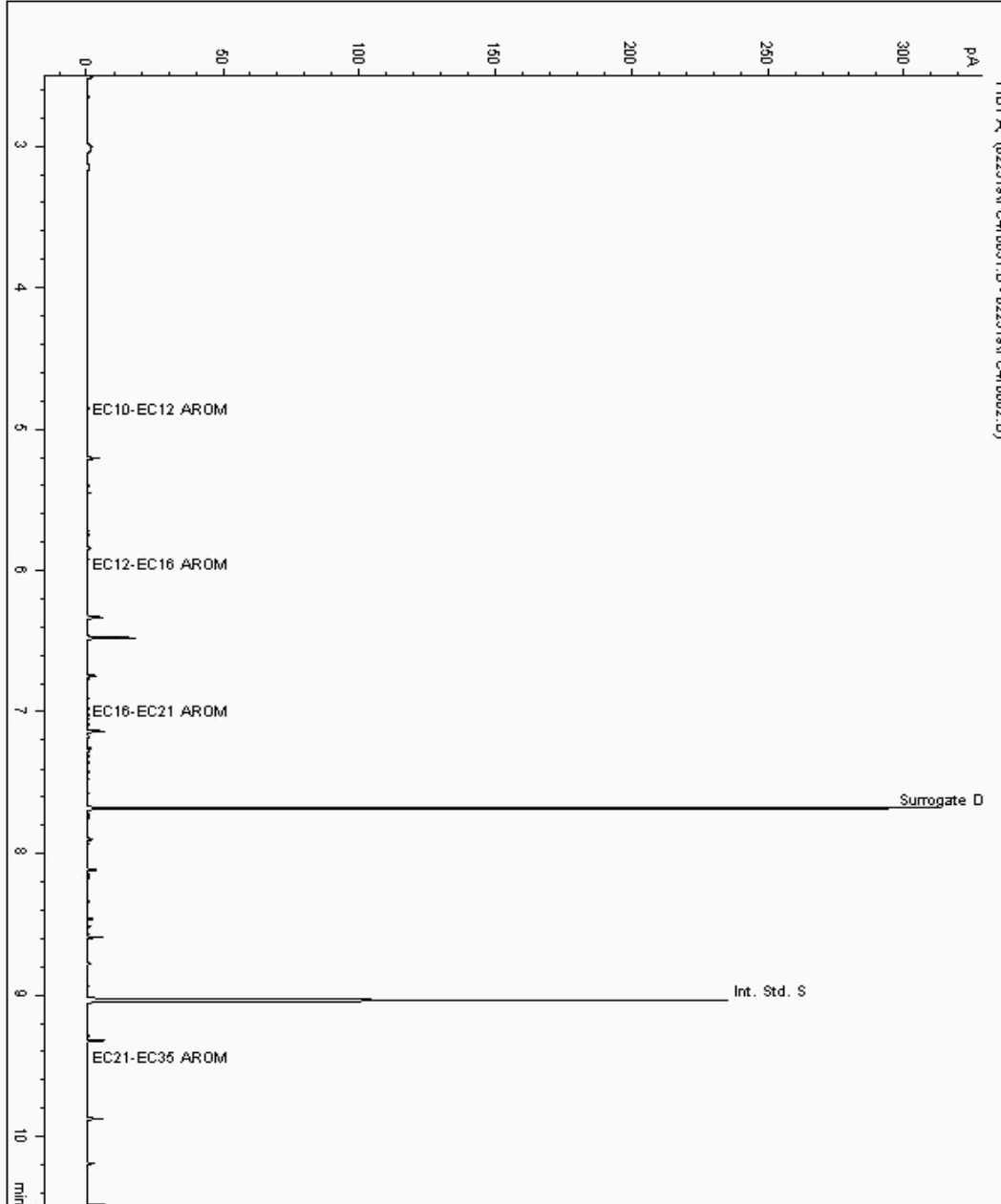
SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 19409253 Depth :
Sample ID : BH112

Speciated TPH - AROM (C12 - C40)

Sample Identity: 18228457-
Date Acquired : 24/02/19 01:42:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

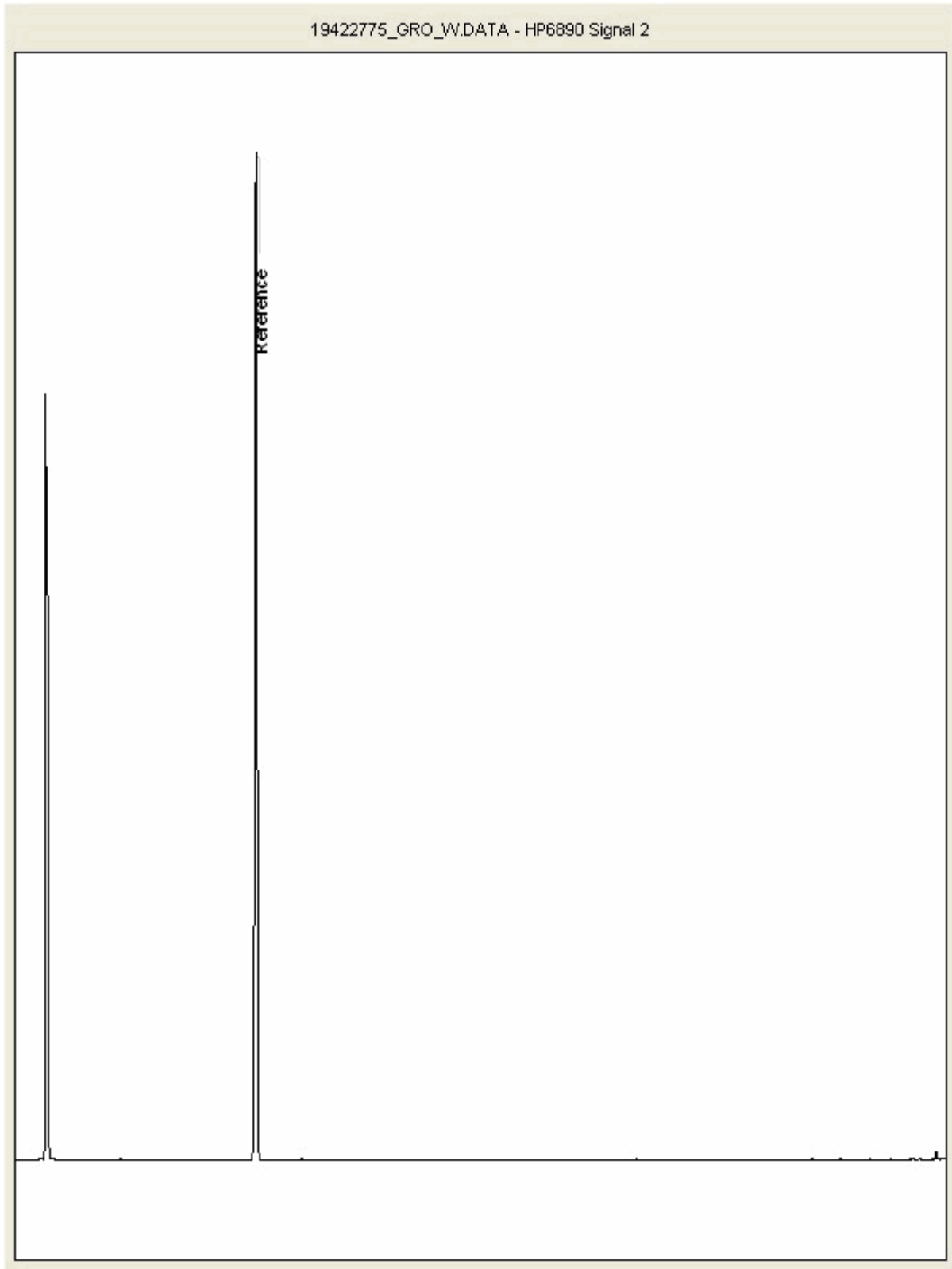
SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19422775
Sample ID : BH110A

Depth :





CERTIFICATE OF ANALYSIS

Validated

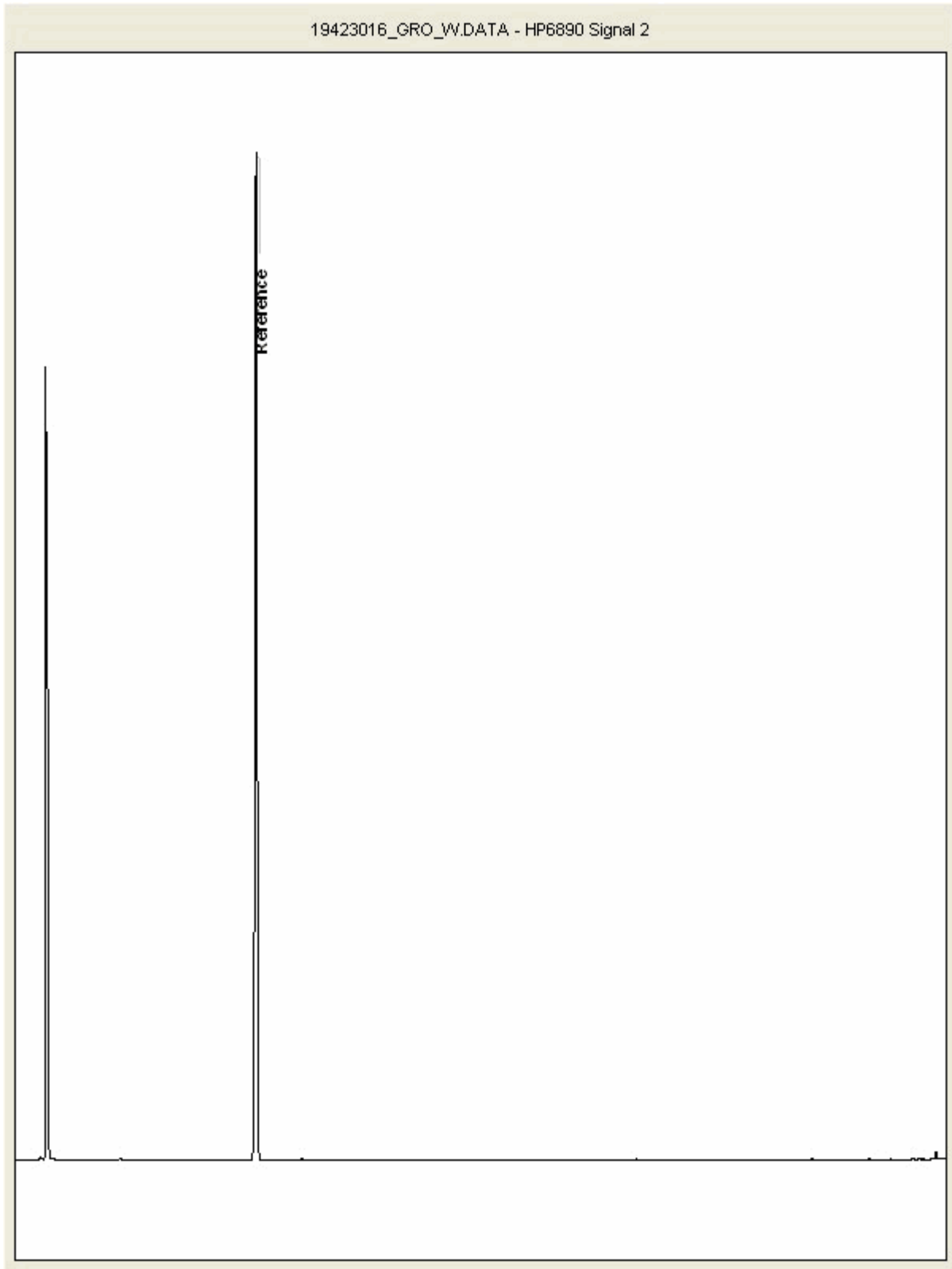
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Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19423016
Sample ID : BH110

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

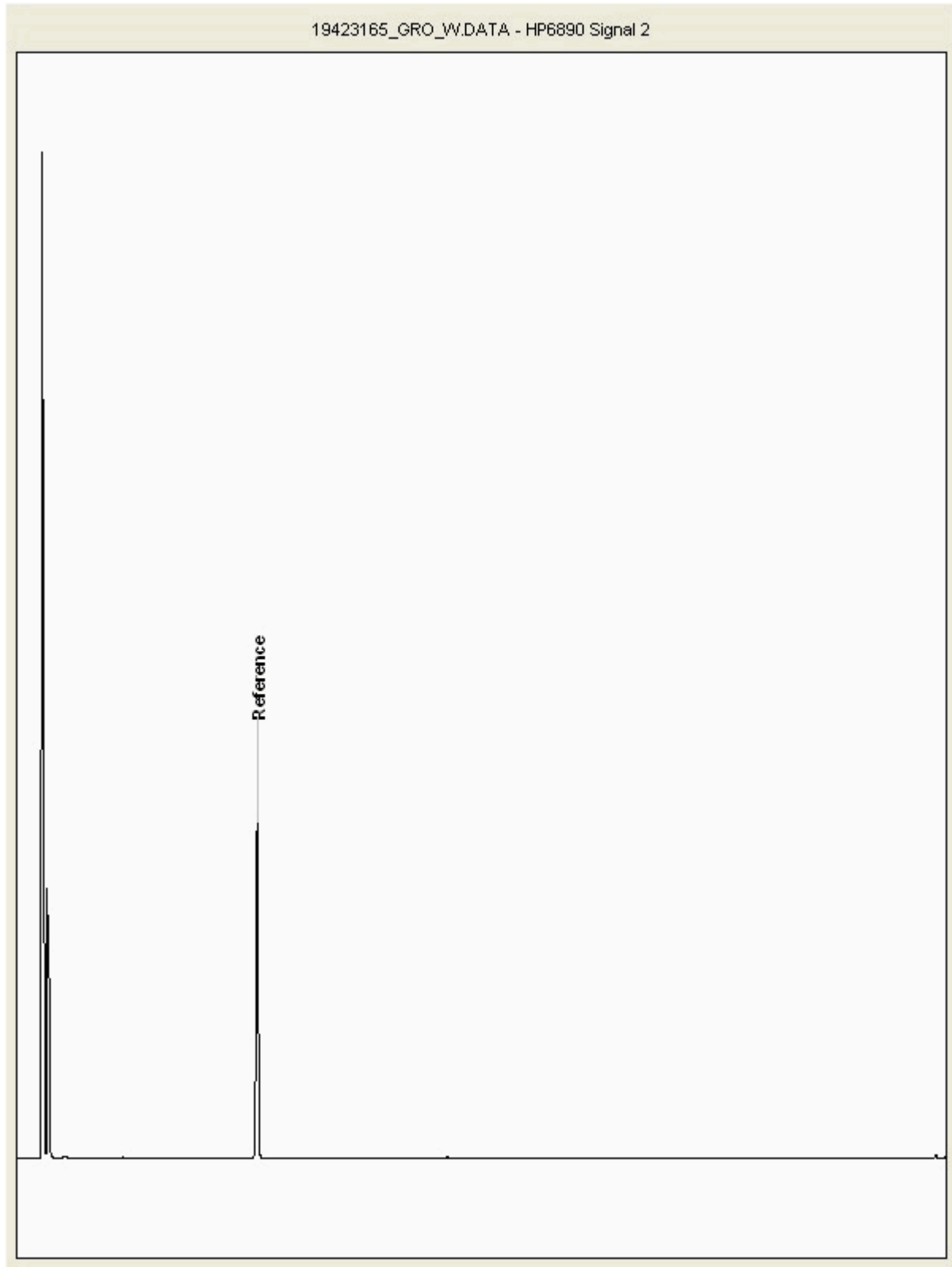
Report Number: 495248
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19423165
Sample ID : BH214

Depth :





CERTIFICATE OF ANALYSIS

Validated

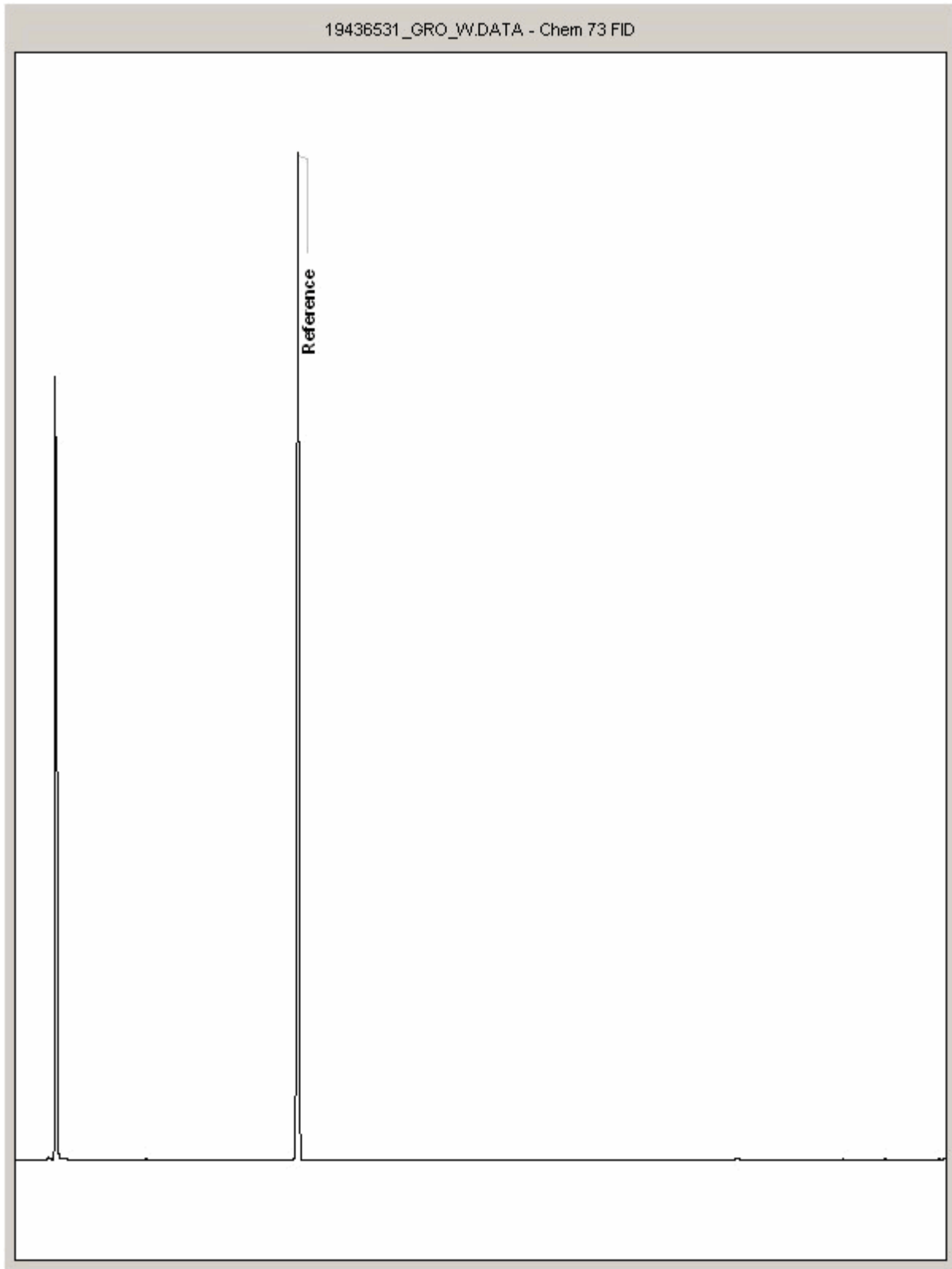
SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19436531
Sample ID : BH113

Depth :





CERTIFICATE OF ANALYSIS

Validated

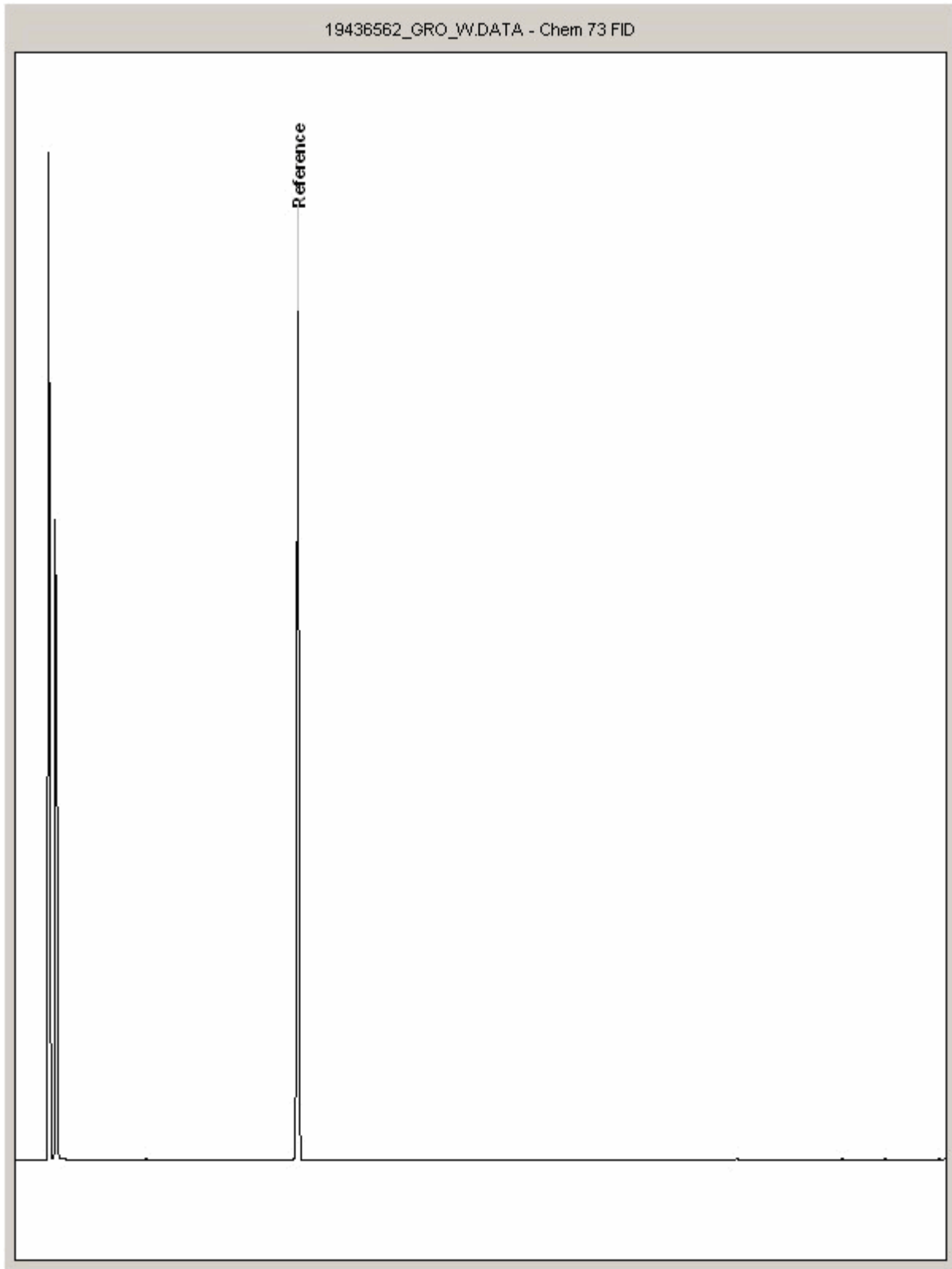
SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19436562
Sample ID : BH112

Depth :





CERTIFICATE OF ANALYSIS

Validated

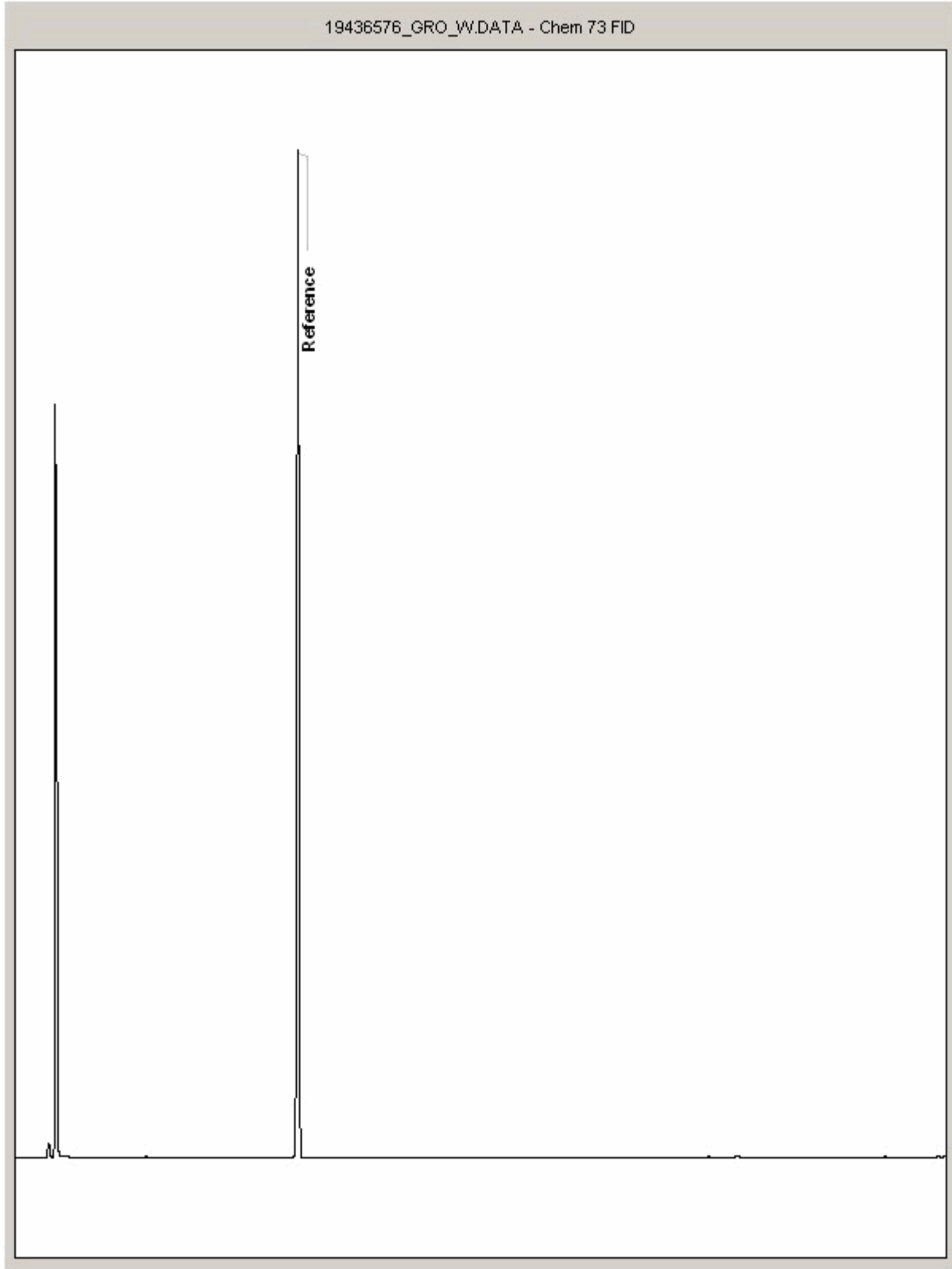
SDG: 190220-74 Client Reference: Report Number: 495248
Location: Not Specified Order Number: P2021550 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19436576
Sample ID : BH111A

Depth :





CERTIFICATE OF ANALYSIS

Validated

SDG: 190220-74
Location: Not Specified

Client Reference:
Order Number: P2021550

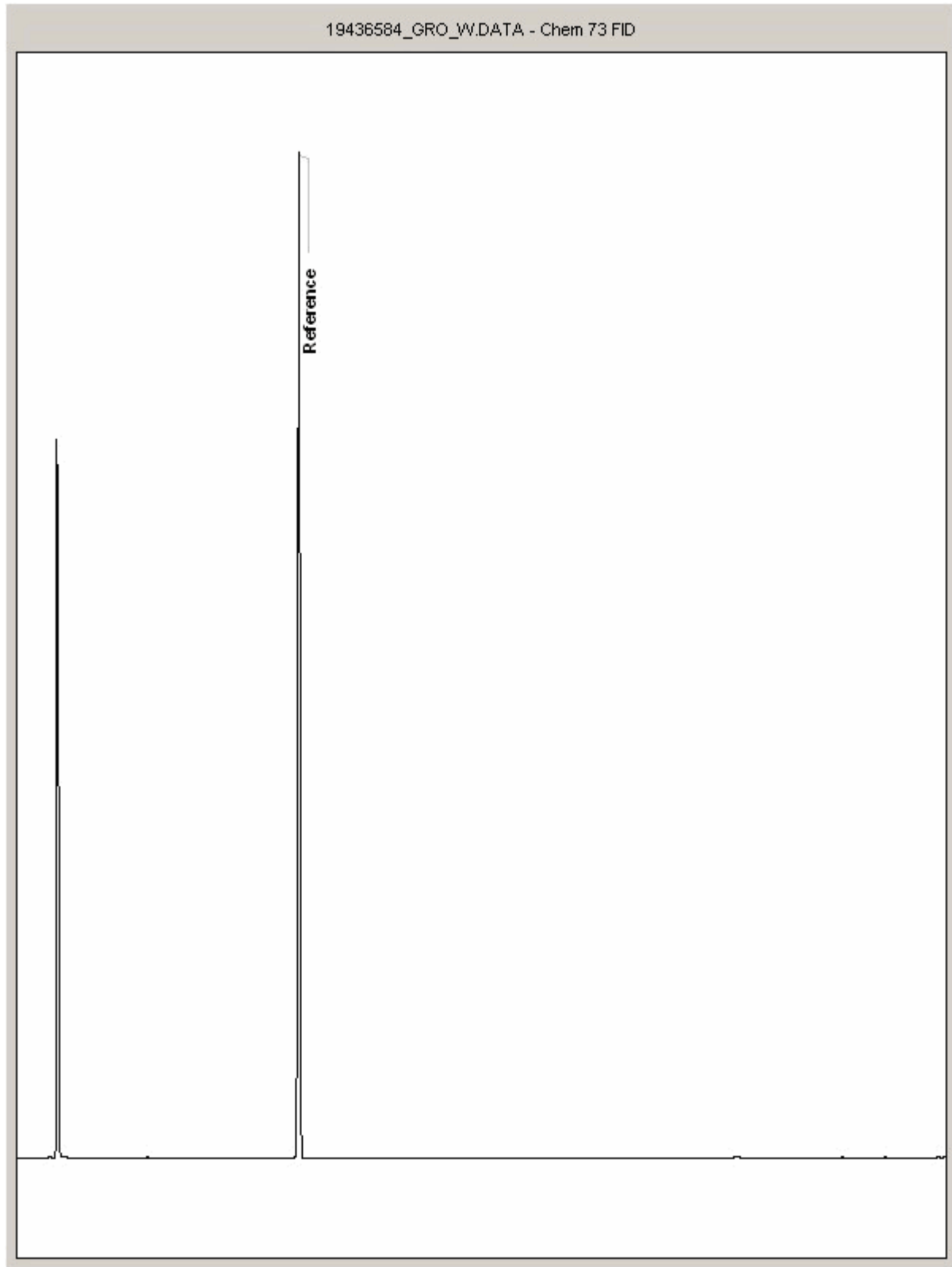
Report Number: 495248
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 19436584
Sample ID : BH213

Depth :





CERTIFICATE OF ANALYSIS

SDG: 190220-74	Client Reference:	Report Number: 495248
Location: Not Specified	Order Number: P2021550	Superseded Report:

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Astestost Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

APPENDIX E

Soil Generic Assessment Criteria for a Residential Without Home Produce Use

Generic assessment criteria for human health: residential scenario without home-grown produce

Background

RSK's generic assessment criteria (GAC) were initially prepared following the publication by the Environment Agency (EA) of soil guideline value (SGV) and toxicological (TOX) reports, and associated publications in 2009⁽¹⁾. RSK GAC were updated following the publication of GAC by LQM/CIEH in 2009⁽²⁾. RSK GAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

Updates to the RSK GAC

In 2014, the publication of Category 4 Screening Levels (C4SL)^(3,4), as part of the Defra-funded research project SP1010, included modifications to certain exposure assumptions documented within EA Science Report SC050221/SR3 (herein after referred to as SR3)⁽⁵⁾ used in the generation of SGVs.

C4SL were published for six substances (cadmium, arsenic, benzene, benzo(a)pyrene, chromium VI and lead) for a sandy loam soil type with 6% soil organic matter, based on a low level of toxicological concern (LLTC; see Section 2.3 of research project report SP1010⁽³⁾). Where a C4SL has been published, the RSK GAC duplicates the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and adopts them as GAC for these six substances.

For all other substances the C4SL exposure modifications relevant for residential without home-grown produce end use have been applied to the current RSK GAC. These include alterations to daily inhalation rates for residential and commercial scenarios, reducing soil adherence factors in children (age classes 1 to 12 only) and reducing exposure frequency for dermal contact outdoors.

The RSK GAC have also been revised with updated toxicology published by LQM/CIEH in 2015⁽⁷⁾ or by the USEPA⁽¹⁴⁾, where a C4SL has not been published.

RSK GAC derivation for metals and organic compounds

Model selection

Soil assessment criteria (SAC) were calculated using the Contaminated Land Exposure Assessment (CLEA) tool v1.071, supporting EA guidance^(5,8,9) and revised exposure scenarios published for the C4SL⁽³⁾. The SAC are also termed GAC.

Conceptual model

In accordance with SR3⁽⁵⁾, the residential without home-grown produce scenario considers risks to a female child between the ages of 0 and 6 years old as the highest risk scenario. In accordance with Box 3.1 of SR3⁽⁵⁾, the pathways considered for production of the SAC in the residential without home-grown produce scenario are

- direct soil and dust ingestion in areas of soft landscaping
- dermal contact with soil and indoor dust

- inhalation of indoor and outdoor dust and vapours.

Figure 1 is a conceptual model illustrating these linkages.

In line with guidance in the EA SGV report for cadmium⁽¹⁾, the RSK GAC for cadmium has been derived based on estimates representative of lifetime exposure. Although young children are generally more likely to have higher exposures to soil contaminants, the renal toxicity of cadmium, and the derivation of the TDI_{oral} and TDI_{inh}, are based on considerations of the kidney burden accumulated over 50 years or so. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period.

With respect to volatilisation, the CLEA model assumes a simple linear partitioning of a chemical in the soil between the sorbed, dissolved and vapour phase⁽⁹⁾. The upper boundaries of this partitioning are represented by the maximum aqueous solubility and pure saturated vapour concentration of the chemical. The CLEA model estimates saturated soil concentrations where these limits are reached⁽⁹⁾. The CLEA software uses a traffic light system to identify when individual and/or combined assessment criteria exceed the lower of either the aqueous- or vapour-based soil saturation limits. Model output cells are flagged red where the saturated soil concentration has been exceeded and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10%. In this case, further consideration of the following is required⁽⁹⁾:

- Free phase contamination may be present.
- Exposure from the vapour pathways will be over-predicted by the model, as in reality the vapour phase concentration will not increase at concentrations above saturation limits
- Where the vapour pathway contribution is greater than 90%, it is unlikely the relevant health criteria value (HCV) will be exceeded at soil concentrations at least a factor of ten higher than the relevant HCV.

Where the vapour pathway is the predominant pathway (contributes greater than 90% of exposure) or the only exposure route considered and the cell is highlighted red (SAC exceeds saturation limit), the risk based on the assumed conceptual model is likely to be negligible as the vapour risk is assumed to be tolerable at maximum possible soil concentrations. In such circumstances, the vapour pathway exposure should be considered based on the presence of free phase or non-aqueous phase liquid sources and the measured concentrations of volatile organic compounds (VOC) in the vapour phase. Screening could be considered based on setting the SAC as the modelled soil saturation limits. However, as stated within the CLEA handbook⁽⁹⁾, this is likely to not be practical in many cases because of the very low saturation limits and, in any case, is highly conservative.

It should also be noted that for mixtures of compounds, free phase may be present where soil (or groundwater) concentrations are well below saturation limits for individual compounds.

Where the vapour pathway is only one of the exposure pathways considered, an additional approach can then be utilised as detailed within Section 4.12 of the CLEA model handbook⁽⁹⁾, which explains how to calculate an effective assessment criterion manually.

SR3⁽⁵⁾ states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase contamination by petroleum hydrocarbons are at least a factor of ten higher than those likely to be measured on-site. RSK has therefore applied an empirical subsurface to indoor air correction factor of 10 into the CLEA model chemical database for all petroleum hydrocarbon fractions (including BTEX, trimethylbenzenes and the

polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene) to reduce this conservatism.

Input selection

The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7⁽¹⁰⁾, the EA TOX⁽¹⁾ reports, the C4SL SP1010 project report and associated appendices^(3,6), the 2015 LQM/CIEH report⁽⁷⁾ or the USEPA IRIS database⁽¹⁴⁾. Where a C4SL has been published, the RSK GAC have duplicated the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and has adopted them as GAC for these six substances. Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil Generic Assessment Criteria report⁽¹¹⁾.

For TPH, aromatic hydrocarbons C₅–C₈ were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

Physical parameters

For the residential without home-grown produce scenario, the CLEA default building is a small, two-storey terrace house with a concrete ground-bearing slab. SR3⁽⁵⁾ notes this residential building type to be the most conservative in terms of potential for vapour intrusion. The building parameters used in the production of the RSK GACs are the default CLEA v1.06 inputs presented in Table 3.3 of SR3⁽³⁾, with a dust loading factor detailed in Section 9.3 of SR3⁽⁵⁾. The parameters for a sandy loam soil type were used in line with Table 4.4 of SR3⁽⁵⁾. This includes a value of 6% for the percentage of soil organic matter (SOM) within the soil. In RSK's experience, this is rather high for many sites. To avoid undertaking site-specific risk assessments for this SOM, RSK has produced an additional set of GAC for SOM of 1% and 2.5% for all substances using the CLEA tool.

Summary of modifications to the default CLEA SR3⁽⁵⁾ input parameters for residential without home-grown produce

In summary, the RSK GAC were produced using the default input parameters for soil properties, the air dispersion model, building properties and the vapour model detailed in SR3⁽⁵⁾. Modifications to the default SR3⁽⁵⁾ exposure scenarios based on the C4SL exposure scenarios⁽³⁾ are presented in Table 2 below.

The final selected GAC are presented by pathway in Table 3 and the combined GAC in Table 4.

Figure 1: Conceptual model for CLEA residential scenario without home-grown produce

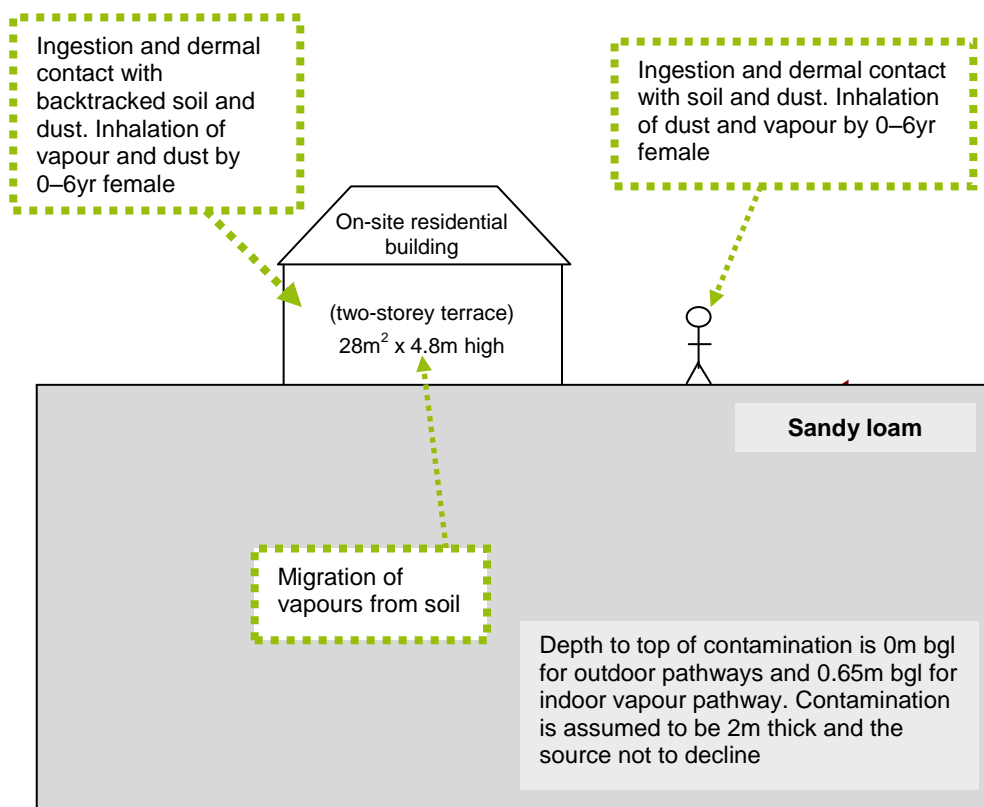


Table 1: Exposure assessment parameters for residential scenario without home-grown produce – inputs for CLEA model

Parameter	Value	Justification
Land use	Residential without home-grown produce	Chosen land use
Receptor	Female child	Key generic assumption given in Box 3.1, SR3 ⁽⁵⁾
Building	Small terraced house	Key generic assumption given in Box 3.1, SR3 ⁽⁵⁾ . Small, two-storey terraced house chosen, as it is the most conservative residential building type in terms of protection from vapor intrusion (Section 3.4.6, SR3 ⁽⁵⁾)
Soil type	Sandy loam	Most common UK soil type (Section 4.3.1, from Table 3.1, SR3 ⁽⁵⁾)
Start age class (AC)	1	Range of age classes corresponding to key generic assumption that the critical receptor is a young female child aged 0-6. From Box 3.1, SR3 ⁽⁵⁾
End AC	6	
SOM (%)	6	Representative of sandy loamy soil according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents' ⁽¹³⁾
	1	To provide SAC for sites where SOM <6% as often observed by RSK
	2.5	
pH	7	Model default



Table 2: Residential without home-grown produce – modified receptor data

Parameter	Unit	Age class					
		1	2	3	4	5	6
Soil to skin adherence factor – (outdoor)	mg soil/cm ² skin	0.1	0.1	0.1	0.1	0.1	0.1
Justification		Table 3.5, SP1010 ⁽³⁾					
Inhalation rate	m ³ day ⁻¹	5.4	8.0	8.9	10.1	10.1	10.1
Justification		Mean value USEPA, 2011 ⁽¹²⁾ ; Table 3.2, SP1010 ⁽³⁾					
<p>Notes: For cadmium, the exposure assessment for a residential land use is based on estimates representative of lifetime exposure AC1-18. This is because the TDI_{oral} and TDI_{inh} are based on considerations of the kidney burden accumulated over 50 years. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period. See the Environment Agency Science Report SC05002/ TOX 3⁽¹⁾, Science Report SC050021/Cadmium SGV⁽¹⁾ and the project report SP1010⁽³⁾ for more information.</p>							

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GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITHOUT HOME-GROWN PRODUCE



Table 3
Human Health Generic Assessment Criteria by Pathway for Residential Scenario Without Home-Grown Produce

Compound	Notes	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Metals													
Arsenic	(a,b)	3.99E+01	5.26E+02	NR	NR	3.99E+01	5.26E+02	NR	NR	3.99E+01	5.26E+02	NR	NR
Cadmium	(a)	1.95E+02	4.88E+02	1.49E+02	NR	1.95E+02	4.88E+02	1.49E+02	NR	1.95E+02	4.88E+02	1.49E+02	NR
Chromium (III) - trivalent	(c)	1.98E+04	9.07E+02	NR	NR	1.98E+04	9.07E+02	NR	NR	1.98E+04	9.07E+02	NR	NR
Chromium (VI) - hexavalent	(a,d)	5.91E+01	2.06E+01	NR	NR	5.91E+01	2.06E+01	NR	NR	5.91E+01	2.06E+01	NR	NR
Copper		1.08E+04	1.41E+04	7.13E+03	NR	1.08E+04	1.41E+04	7.13E+03	NR	1.08E+04	1.41E+04	7.13E+03	NR
Lead	(a)	3.14E+02	NR	NR	NR	3.14E+02	NR	NR	NR	3.14E+02	NR	NR	NR
Elemental Mercury (Hg ⁰)	(d)	NR	2.41E-01	NR	4.31E+00	NR	5.74E-01	NR	1.07E+01	NR	1.25E+00	NR	2.58E+01
Inorganic Mercury (Hg ²⁺)		5.71E+01	3.63E+03	5.62E+01	NR	5.71E+01	3.63E+03	5.62E+01	NR	5.71E+01	3.63E+03	5.62E+01	NR
Methyl Mercury (Hg ⁴⁺)		1.80E+01	1.87E+01	9.16E+00	7.33E+01	1.80E+01	3.62E+01	1.20E+01	1.42E+02	1.80E+01	7.68E+01	1.46E+01	3.04E+02
Nickel	(d)	1.88E+02	1.81E+02	NR	NR	1.88E+02	1.81E+02	NR	NR	1.88E+02	1.81E+02	NR	NR
Selenium	(b)	4.31E+02	NR	NR	NR	4.31E+02	NR	NR	NR	4.31E+02	NR	NR	NR
Zinc	(b)	4.05E+04	3.63E+07	NR	NR	4.05E+04	3.63E+07	NR	NR	4.05E+04	3.63E+07	NR	NR
Cyanide (free)		4.03E+01	1.37E+04	4.02E+01	NR	4.03E+01	1.37E+04	4.02E+01	NR	4.03E+01	1.37E+04	4.02E+01	NR
Volatile Organic Compounds													
Benzene	(a)	7.36E+01	9.01E-01	8.90E-01	1.22E+03	7.36E+01	1.68E+00	1.64E+00	2.26E+03	7.36E+01	3.48E+00	3.33E+00	4.71E+03
Toluene		2.87E+04	9.08E+02	8.80E+02	8.69E+02	2.87E+04	2.00E+03	1.87E+03	1.92E+03	2.87E+04	4.55E+03	3.93E+03	4.36E+03
Ethylbenzene		1.29E+04	8.34E+01	8.29E+01	5.18E+02	1.29E+04	1.96E+02	1.93E+02	1.22E+03	1.29E+04	4.58E+02	4.42E+02	2.84E+03
Xylene - m		2.32E+04	8.25E+01	8.22E+01	6.25E+02	2.32E+04	1.95E+02	1.93E+02	1.47E+03	2.32E+04	4.56E+02	4.47E+02	3.46E+03
Xylene - o		2.32E+04	8.87E+01	8.83E+01	4.78E+02	2.32E+04	2.08E+02	2.06E+02	1.12E+03	2.32E+04	4.86E+02	4.76E+02	2.62E+03
Xylene - p		2.32E+04	7.93E+01	7.90E+01	5.76E+02	2.32E+04	1.86E+02	1.85E+02	1.35E+03	2.32E+04	4.36E+02	4.28E+02	3.17E+03
Total xylene		2.32E+04	7.93E+01	7.90E+01	6.25E+02	2.32E+04	1.86E+02	1.85E+02	1.47E+03	2.32E+04	4.36E+02	4.28E+02	3.46E+03
Methyl tertiary-Butyl ether (MTBE)		3.87E+04	1.04E+02	1.04E+02	2.04E+04	3.87E+04	1.69E+02	1.69E+02	3.31E+04	3.87E+04	3.21E+02	3.19E+02	6.27E+04
Trichloroethene		6.45E+01	1.72E-02	1.72E-02	1.54E+03	6.45E+01	3.59E-02	3.59E-02	3.22E+03	6.45E+01	7.98E-02	7.97E-02	7.14E+03
Tetrachloroethene		7.13E+02	1.79E-01	1.79E-01	4.24E+02	7.13E+02	4.02E-01	4.02E-01	9.51E+02	7.13E+02	9.21E-01	9.20E-01	2.18E+03
1,1,1-Trichloroethane		7.74E+04	9.01E+00	9.01E+00	1.43E+03	7.74E+04	1.84E+01	1.84E+01	2.92E+03	7.74E+04	4.04E+01	4.04E+01	6.39E+03
1,1,1,2-Tetrachloroethane		7.34E+02	1.54E+00	1.53E+00	2.60E+03	7.34E+02	3.56E+00	3.55E+00	6.02E+03	7.34E+02	8.29E+00	8.20E+00	1.40E+04
1,1,2,2-Tetrachloroethane		7.34E+02	3.92E+00	3.90E+00	2.67E+03	7.34E+02	8.04E+00	7.95E+00	5.46E+03	7.34E+02	1.76E+01	1.72E+01	1.20E+04
Carbon Tetrachloride		5.15E+02	2.58E-02	2.58E-02	1.52E+03	5.15E+02	5.65E-02	5.64E-02	3.32E+03	5.15E+02	1.28E-01	1.28E-01	7.54E+03
1,2-Dichloroethane		1.55E+01	9.20E-03	9.20E-03	3.41E+03	1.55E+01	1.33E-02	1.33E-02	4.91E+03	1.55E+01	2.28E-02	2.27E-02	8.43E+03
Vinyl Chloride		1.81E+00	7.73E-04	7.73E-04	1.36E+03	1.81E+00	1.00E-03	9.99E-04	1.76E+03	1.81E+00	1.53E-03	1.53E-03	2.69E+03
1,2,4-Trimethylbenzene		NR	5.58E+00	NR	4.74E+02	NR	1.29E+01	NR	1.16E+03	NR	2.69E+01	NR	2.76E+03
1,3,5-Trimethylbenzene	(e)	NR	NR	NR	2.30E+02	NR	NR	NR	5.52E+02	NR	NR	NR	1.30E+03
Semi-Volatile Organic Compounds													
Acenaphthene		7.64E+03	4.86E+04	6.60E+03	5.70E+01	7.64E+03	1.18E+05	7.17E+03	1.41E+02	7.64E+03	2.68E+05	7.43E+03	3.36E+02
Acenaphthylene		7.65E+03	4.59E+04	6.55E+03	8.61E+01	7.65E+03	1.11E+05	7.15E+03	2.12E+02	7.65E+03	2.53E+05	7.42E+03	5.06E+02
Anthracene		3.82E+04	1.53E+05	3.06E+04	1.17E+00	3.82E+04	3.77E+05	3.47E+04	2.91E+00	3.82E+04	8.76E+05	3.66E+04	6.96E+00
Benzo(a)anthracene		1.98E+01	2.47E+01	1.10E+01	1.71E+00	1.98E+01	4.37E+01	1.36E+01	4.28E+00	1.98E+01	6.26E+01	1.50E+01	1.03E+01
Benzo(a)pyrene	(a)	5.34E+00	3.51E+01	NR	9.11E-01	5.34E+00	3.77E+01	NR	2.28E+00	5.34E+00	3.89E+01	NR	5.46E+00
Benzo(b)fluoranthene		4.97E+00	1.93E+01	3.95E+00	1.22E+00	4.97E+00	2.13E+01	4.03E+00	3.04E+00	4.97E+00	2.22E+01	4.06E+00	7.29E+00
Benzo(g,h,i)perylene		4.38E+02	1.87E+03	3.55E+02	1.54E-02	4.38E+02	1.94E+03	3.58E+02	3.85E-02	4.38E+02	1.97E+03	3.59E+02	9.23E-02
Benzo(k)fluoranthene		1.31E+02	5.41E+02	1.06E+02	6.87E-01	1.31E+02	5.76E+02	1.07E+02	1.72E+00	1.31E+02	5.91E+02	1.07E+02	4.12E+00
Chrysene		3.95E+01	1.19E+02	2.97E+01	4.40E-01	3.95E+01	1.49E+02	3.12E+01	1.10E+00	3.95E+01	1.66E+02	3.19E+01	2.64E+00
Dibenzo(a,h)anthracene		3.95E-01	1.45E+00	3.10E-01	3.93E-03	3.95E-01	1.64E+00	3.18E-01	9.82E-03	3.95E-01	1.74E+00	3.22E-01	2.36E-02
Fluoranthene		1.59E+03	3.83E+04	1.53E+03	1.89E+01	1.59E+03	8.87E+04	1.56E+03	4.73E+01	1.59E+03	1.83E+05	1.58E+03	1.13E+02
Fluorene		5.09E+03	6.20E+03	2.80E+03	3.09E+01	5.09E+03	1.53E+04	3.82E+03	7.65E+01	5.09E+03	3.62E+04	4.47E+03	1.83E+02
Indeno(1,2,3-cd)pyrene		5.65E+01	2.12E+02	4.46E+01	6.13E-02	5.65E+01	2.38E+02	4.56E+01	1.53E-01	5.65E+01	2.50E+02	4.60E+01	3.68E-01

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITHOUT HOME-GROWN PRODUCE



Table 3
Human Health Generic Assessment Criteria by Pathway for Residential Scenario Without Home-Grown Produce

Compound	Notes	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Naphthalene		2.50E+03	2.33E+01	2.31E+01	7.64E+01	2.50E+03	5.58E+01	5.46E+01	1.83E+02	2.50E+03	1.31E+02	1.25E+02	4.32E+02
Phenanthrene		1.58E+03	7.17E+03	1.30E+03	3.60E+01	1.58E+03	1.76E+04	1.45E+03	8.96E+01	1.58E+03	4.07E+04	1.52E+03	2.14E+02
Pyrene		3.82E+03	8.79E+04	3.66E+03	2.20E+00	3.82E+03	2.04E+05	3.75E+03	5.49E+00	3.82E+03	4.23E+05	3.79E+03	1.32E+01
Phenol		6.48E+04	4.58E+02	4.55E+02	2.42E+04	6.48E+04	6.95E+02	6.88E+02	3.81E+04	6.48E+04	1.19E+03	1.17E+03	7.03E+04
Total Petroleum Hydrocarbons													
Aliphatic hydrocarbons EC ₅ -EC ₆		3.23E+05	4.24E+01	4.24E+01	3.04E+02	3.23E+05	7.79E+01	7.79E+01	5.58E+02	3.23E+05	1.61E+02	1.61E+02	1.15E+03
Aliphatic hydrocarbons >EC ₅ -EC ₈		3.23E+05	1.04E+02	1.04E+02	1.44E+02	3.23E+05	2.31E+02	2.31E+02	3.22E+02	3.23E+05	5.29E+02	5.29E+02	7.36E+02
Aliphatic hydrocarbons >EC ₈ -EC ₁₀		6.45E+03	2.68E+01	2.68E+01	7.77E+01	6.45E+03	6.55E+01	6.53E+01	1.90E+02	6.45E+03	1.56E+02	1.55E+02	4.51E+02
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂		6.45E+03	1.33E+02	1.32E+02	4.75E+01	6.45E+03	3.31E+02	3.27E+02	1.18E+02	6.45E+03	7.93E+02	7.67E+02	2.83E+02
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆		6.45E+03	1.11E+03	1.06E+03	2.37E+01	6.45E+03	2.78E+03	2.42E+03	5.91E+01	6.45E+03	6.67E+03	4.37E+03	1.42E+02
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	(b)	6.50E+04	NR	NR	8.48E+00	9.25E+04	NR	NR	2.12E+01	1.11E+05	NR	NR	5.09E+01
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	6.50E+04	NR	NR	8.48E+00	9.25E+04	NR	NR	2.12E+01	1.11E+05	NR	NR	5.09E+01
Aromatic hydrocarbons >EC ₈ -EC ₁₀		2.58E+03	4.74E+01	4.72E+01	6.13E+02	2.58E+03	1.16E+02	1.15E+02	1.50E+03	2.58E+03	2.77E+02	2.69E+02	3.58E+03
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂		2.58E+03	2.58E+02	2.52E+02	3.64E+02	2.58E+03	6.39E+02	5.94E+02	8.99E+02	2.58E+03	1.52E+03	1.24E+03	2.15E+03
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆		2.58E+03	2.85E+03	1.80E+03	1.69E+02	2.58E+03	7.07E+03	2.30E+03	4.19E+02	2.58E+03	1.68E+04	2.48E+03	1.00E+03
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	(b)	1.86E+03	NR	NR	5.37E+01	1.90E+03	NR	NR	1.34E+02	1.92E+03	NR	NR	3.21E+02
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	(b)	1.93E+03	NR	NR	4.83E+00	1.93E+03	NR	NR	1.21E+01	1.93E+03	NR	NR	2.90E+01
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	1.93E+03	NR	NR	4.83E+00	1.93E+03	NR	NR	1.21E+01	1.93E+03	NR	NR	2.90E+01

Notes:

EC - equivalent carbon. GrAC - groundwater assessment criteria. SAC - soil assessment criteria.

The CLEA model output is colour coded depending upon whether the soil saturation limit has been exceeded.

- Calculated SAC exceeds soil saturation limit and may significantly affect the interpretation of any exceedances as the contribution of the indoor and outdoor vapour pathway to total exposure is >10%.
- Calculated SAC exceeds soil saturation limit but the exceedance will not affect the SAC significantly as the contribution of the indoor and outdoor vapour pathway to total exposure is <10%.
- Calculated SAC does not exceed the soil saturation limit.

The SAC for organic compounds are dependant upon soil organic matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway (Section 10.1.1, SR3)

- (a) SAC for arsenic, benzene, benzo(a)pyrene, cadmium, chromium VI and lead are derived using the C4SL toxicology data.
- (b) SAC for selenium should not include the inhalation pathway as no expert group HCV has been derived; aliphatic and aromatic hydrocarbons >EC16 should not include inhalation pathway due to their non-volatile nature and inhalation exposure being minimal (oral, dermal and inhalation exposure is compared to the oral HCV); arsenic should only be based on oral contribution (rather than combined) owing to the relative small contribution from inhalation in accordance with the SGV report. The Oral SAC should be adopted for zinc and benzo(a)pyrene.
- (c) SAC for CrIII should be based on the lower of the oral and inhalation SAC (see LQM/CIEH 2015 Section 6.8)
- (d) SAC for elemental mercury, chromium VI and nickel should be based on the inhalation pathway only.
- (e) SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used.



Table 4
Human health generic assessment criteria for residential without home-grown produce

Compound	SAC for Soil SOM 1% (mg/kg)	SAC for Soil SOM 2.5% (mg/kg)	SAC for Soil SOM 6% (mg/kg)
Metals			
Arsenic	40	40	40
Cadmium	149	149	149
Chromium (III) - trivalent	910	910	910
Chromium (VI) - hexavalent	21	21	21
Copper	7,100	7,100	7,100
Lead	310	310	310
Elemental Mercury (Hg ⁰)	0.2	0.6	1.2
Inorganic Mercury (Hg ²⁺)	56	56	56
Methyl Mercury (Hg ⁴⁺)	9	12	15
Nickel	180	180	180
Selenium	430	430	430
Zinc	40,000	40,000	40,000
Cyanide (free)	40	40	40
Volatile Organic Compounds			
Benzene	0.9	1.6	3.3
Toluene	900 (869)	1,900	3,900
Ethylbenzene	80	190	440
Xylene - m	80	190	450
Xylene - o	90	210	480
Xylene - p	80	180	430
Total xylene	80	180	430
Methyl tertiary-Butyl ether (MTBE)	100	170	320
Trichloroethene	0.02	0.04	0.08
Tetrachloroethene	0.2	0.4	0.9
1,1,1-Trichloroethane	9.0	18.4	40.4
1,1,1,2-Tetrachloroethane	1.5	3.5	8.2
1,1,2,2-Tetrachloroethane	3.9	8.0	17.2
Carbon Tetrachloride	0.026	0.056	0.128
1,2-Dichloroethane	0.009	0.013	0.023
Vinyl Chloride	0.0008	0.0010	0.0015
1,2,4-Trimethylbenzene	5.6	12.9	26.9
1,3,5-Trimethylbenzene	NR	NR	NR
Semi-Volatile Organic Compounds			
Acenaphthene	6,600 (57)	7,200	7,400
Acenaphthylene	6,600 (86)	7,200	7,400
Anthracene	31,000 (1.17)	35,000	37,000
Benzo(a)anthracene	11.0	13.6	15.0
Benzo(a)pyrene	5.3	5.3	5.3
Benzo(b)fluoranthene	4.0	4.0	4.1
Benzo(g,h,i)perylene	355	358	359
Benzo(k)fluoranthene	106	107	107
Chrysene	30	31	32
Dibenzo(a,h)anthracene	0.31	0.32	0.32
Fluoranthene	1,500	1,600	1,600
Fluorene	2,800 (31)	3,800 (77)	4,500 (183)
Indeno(1,2,3-cd)pyrene	45	46	46
Naphthalene	23	55	125
Phenanthrene	1,300 (36)	1,450	1,520
Pyrene	3,700	3,800	3,800
Phenol	440*	688	1,170
Total Petroleum Hydrocarbons			
Aliphatic hydrocarbons EC ₅ -EC ₆	42	78	161
Aliphatic hydrocarbons >EC ₆ -EC ₈	100	230	530
Aliphatic hydrocarbons >EC ₈ -EC ₁₀	27	65	155
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂	130 (48)	330 (118)	770 (283)
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆	1,100 (24)	2,400 (59)	4,400 (142)
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	65,000 (8)	92,000 (21)	111,000
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	65,000 (8)	92,000 (21)	111,000
Aromatic hydrocarbons >EC ₈ -EC ₁₀	47	115	269
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂	300	600	1,200
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆	1,800 (169)	2,300 (419)	2,500
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	1,900	1,900	1,900
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	1,900	1,900	1,900
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	1,900	1,900	1,900
Minerals			
Asbestos	No asbestos detected with ID or <0.001% dry weight ¹		
Notes:			
* Generic assessment criteria not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data.			
NR - SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used			
EC - equivalent carbon. SAC - soil assessment criteria.			
¹ LOD for weight of asbestos per unit weight of soil calculated on a dry weight basis using PLM, handpicking and gravimetry.			
The SAC for organic compounds are dependent on Soil Organic Matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.			
SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway, section 10.1.1, SR3.			
(VALUE IN BRACKETS)			
RSK has adopted an approach for petroleum hydrocarbons in accordance with LQM/CI/EH whereby the concentration modelled for each petroleum hydrocarbon fraction has been tabulated as the SAC with the corresponding solubility or vapour saturation limits given in brackets.			



APPENDIX F

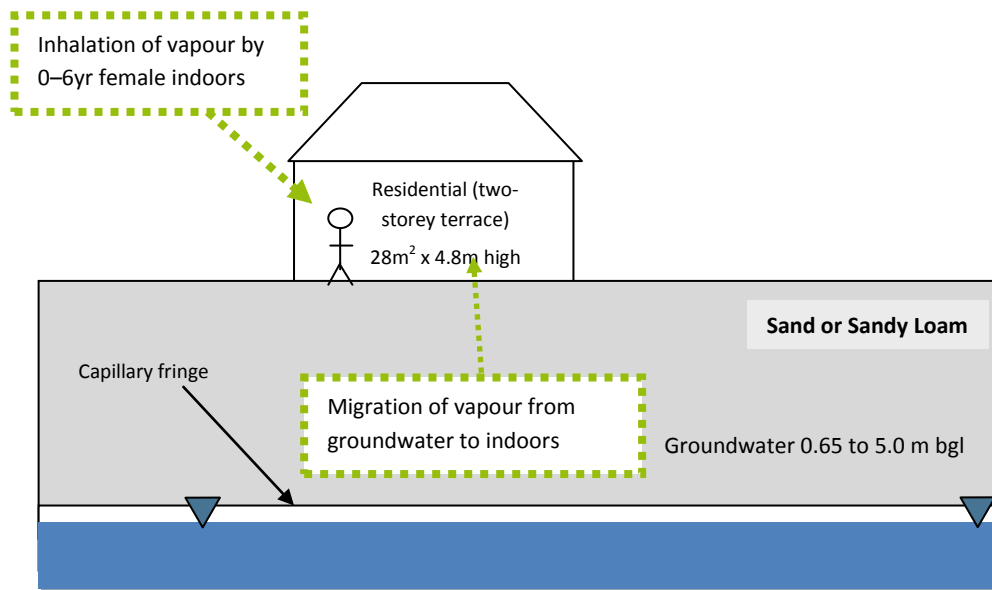
**Groundwater Generic Assessment Criteria for a Residential Without Home Produce
Use**

Generic groundwater assessment criteria (GrAC) for human health: residential scenario (child receptor)

Background

Volatile organic compounds (VOC) in groundwater have the potential to pose risks to residential site end users via indoor and outdoor inhalation exposure. Due to significant dilution effects in outdoor air, inhalation risk is dominated by indoor exposure. The GrAC conceptual site model (CSM) is shown in Figure 1 (not to scale).

Figure 1: GrAC conceptual model for a generic residential scenario



RSK GrAC derivation

Model selection

The Society for Brownfield Risk Assessment (SoBRA) published a set of generic assessment criteria for assessing vapour risk to human health from volatile contaminants in groundwater in February 2017⁽¹⁾. The criteria were developed for a list of common VOC using the Environment Agency Contaminated Land Exposure Assessment (CLEA) tool⁽²⁾ based on a sand soil type and a groundwater depth of 0.65 m below foundation base level. The CLEA tool is not designed to directly model VOC in groundwater and the SoBRA generic criteria are recognised as being conservative since calculations in CLEA are based on three-phase partitioning in the unsaturated zone between soil, soil vapour and soil moisture, with the latter taken by SoBRA as a groundwater equivalent. This method does not take account of the presence of a semi-saturated capillary fringe above the water table, which will serve to provide some mitigation to vertical soil vapour migration.

RSK GrAC are calculated using the RBCA Toolkit for Chemical Releases (version 2.6) with the Johnson and Ettinger model, based on the CSM in Figure 1 for a small terrace house (as defined in SR3⁽³⁾, Table 4.21) and which allows consideration of a capillary fringe. The capillary fringe is

the subsurface layer in which groundwater seeps up from a water table by capillary action to partially fill soil pores.

The RBCA model was used in preference to the Environment Agency Contaminated Land Exposure Assessment (CLEA) tool⁽²⁾, as the CLEA tool is not designed to directly model VOC in groundwater and does not take account of the presence of a capillary zone.

Conceptual model

In accordance with SR3⁽³⁾, the residential scenario considers risks to a female child between the ages of 0 and 6 years old as the highest risk scenario.

The pollutant linkage considered in production of the GrAC is the volatilisation of compounds from groundwater and subsequent vapour inhalation by residents while indoors. Figure 1 illustrates this linkage. Although the outdoor air inhalation pathway is also valid, this contributes little to the overall risks owing to the dilution of VOC in outdoor air. RBCA does not take direct account of the presence of VOC from non-aqueous phase chemicals but highlights when the assessment criterion exceeds the solubility limit of the pure compound.

Input selection – chemical and toxicological parameters

Key parameters used in the RBCA model are listed and justified in Table 1. The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7⁽²⁾, the EA TOX⁽⁵⁾ reports, and published by Nathaniel et al.,⁽⁶⁾, as appropriate. Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil Generic Assessment Criteria report⁽⁷⁾.

The toxicological input parameters are associated with minimal risk, rather than low risk.

For petroleum hydrocarbon fractions, aromatic hydrocarbons C5–C8 were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

For the GrAC, the Health Criteria Values (HCV) used in the modelling were derived using the toxicological data for the Soil Assessment Criteria, amended as follows:

- A child weighing 13.3kg (average of 0-6 year old female in accordance with Table 4.6 of SR3⁽³⁾) and breathing 8.77m³ (average daily inhalation rate for a 0-6yr old female in accordance with SP1010 final project report for the C4SL (Table 3.2⁽⁸⁾) and USEPA data⁽⁹⁾)
- Background inhalation (mean daily intake (MDI)) for a child (Age Classes 1-6)
- Residential amendments to the MDI for younger age groups following Table 3.4 and Section 3.4.1 of SR2⁽¹⁰⁾; amended to reflect average daily inhalation rates in accordance with SP1010 final project report for the C4SL (Table 3.2⁽⁸⁾) and USEPA data⁽⁹⁾. Correction factors are presented in Table 1.

Table 1: Correction factors used to adjust adult MDI to younger age groups

Age Class	Body weight (kg) ¹	Inhalation rate (m ³ /day) ²	Correction factor for inhalation MDI ³
1	5.6	5.4	0.34
2	9.8	8	0.51
3	12.7	8.9	0.57
4	15.1	10.1	0.64
5	16.9	10.1	0.64
6	19.7	10.1	0.64
17	70	15.7	-
Mean (AC1-6)	13.3	8.8	0.56

Notes
¹ Body weight from CLEA v1.071
² Inhalation rate from Table 3.2 of the SP1010 final project report for the C4SL⁽⁸⁾
³ Inhalation correction factors are the ratio of the average male and female inhalation rates for each age class to the adult rate at age class 17 (age 16–59 years) and are based on the rates used by the Category 4 Screening Levels to derive the C4SLs⁽⁸⁾, following the methodology in SR2⁽¹⁰⁾.

The amended HCV used in the derivation of the RSK GrAC are presented in Table 2.

Note on Trimethylbenzenes

For trimethylbenzenes the CL:AIRE report⁽⁷⁾ based background inhalation from non-soil sources (MDI) on a Dutch study from 1985, which is reported to have identified an average daily dose of 1,2,4-trimethylbenzene of 86 ug d⁻¹ (1,3,5-trimethylbenzene was 20.5 ug d⁻¹). This dose value was based on the upper end of the identified concentration range of 1,2,4-trimethylbenzene (2.46 – 5.66 ug m⁻³) and was used to calculate an a MDI of 1.23 ug kg⁻¹ bw d⁻¹ for a 70 kg adult breathing 20 m³ of air daily.

The approach recommended in SR2⁽¹⁰⁾, and also adopted for the C4SLs⁽⁸⁾, for non-carcinogenic (threshold) compounds such as trimethylbenzenes is to subtract the MDI from the tolerable daily intake (TDI) to obtain a tolerable daily intake from soil (TDSI) in units of ug kg⁻¹ bw d⁻¹. For 1,2,4-trimethylbenzene, the adult MDI from the Dutch study used in the CL:AIRE report⁽⁷⁾ (1.23 ug kg⁻¹ bw d⁻¹) is a significant proportion of the TDI (2.0 ug kg⁻¹ bw d⁻¹), resulting in a low TDSI (1.0 ug kg⁻¹ bw d⁻¹) when the 50% rule is applied (i.e. TDSI = TDI * 0.5 when MDI is high relative to TDI). This TDSI equates to an Inhalation Reference Concentration (or modified Health Criteria Value) for adults of 3.4 ug m⁻³ (70 kg adult breathing 15.7 m³ d⁻¹).

By comparison the adult inhalation modified HCV for benzene is 6.2 ug m⁻³, which is proven human carcinogen (non-threshold compound).

Table 2: Amended Health Criteria Values

	Modified HCV (mg/m ³)
VOC / SVOC	Child (Residential)
MTBE	1.0803
Benzene	0.0021
Toluene	2.1164
Ethylbenzene	0.1113
Xylenes	0.0834
Trimethylbenzenes	0.0026
TPH_Aliph EC5-EC6	3.7913
TPH_Aliph >EC6-EC8	3.7913
TPH_Aliph >EC8-EC10	0.2199
TPH_Aliph >EC10-EC12	0.2199
TPH_Aliph >EC12-EC16	0.2199
TPH_Arom >EC8-EC10	0.0455
TPH_Arom >EC10-EC12	0.0455
TPH_Arom >EC12-EC16	0.0455
Acenaphthene	0.0910
Acenaphthylene	0.0910
Naphthalene	0.0011
Vinyl chloride	0.0005
Dichloroethane-1,2	0.0002
Tetrachloroethene	0.0083
Carbon tetrachloride	0.0025
Trichloroethane-1,1,1	0.9099
Trichloroethene	0.0009
Tetrachloroethane 1,1,2,2 & 1,1,1,2	0.0086
1,1,2-Trichloroethane	0.0073
1,1-dichloroethene	0.0864
Chloroethane	4.3318
Chloromethane	0.0039
Dichloromethane	0.1781

The MDI for 1,2,4-trimethylbenzene is considered by RSK to be overly conservative for the following reasons:

- The Dutch 1985 study is dated and air quality has improved since this time
- The maximum value in the range (5.66 ug m⁻³) was used in calculating the MDI
- Experience has shown that trimethylbenzenes often appear to drive inhalation risks to a greater extent than benzene, even though the latter is carcinogenic and more volatile.

As an alternative to the 1985 Dutch study, RSK have obtained automated roadside air quality monitoring data for the UK from www.uk-air.defra.gov.uk/. The average concentration of 1,2,4-trimethylbenzene measured during 2015 at Eltham, south-east London (urban) was 0.309 ug m⁻³,

significantly lower than that identified in the Dutch study and used by CL:AIRE⁽⁷⁾ for calculation of a MDI. Whilst an average concentration of 1,2,4-trimethylbenzene in UK urban and rural areas is likely to be significantly below $0.0.309 \text{ ug m}^{-3}$, this value is considered to be suitably conservative for the calculation of a modified HCV for trimethylbenzenes in the UK.

On this basis, the HCV for 1,2,4-trimethylbenzene for adults and children was calculated as 8.5 ug m^{-3} (0.0085 mg m^{-3}) and 2.6 ug m^{-3} (0.0026 mg m^{-3}), respectively (see Table 3). Due to the paucity of toxicological data for 1,2,3-trimethylbenzene and 1,3,5-trimethylbenzene the modified HCV for 1,2,4-trimethylbenzene is considered suitable for assessing total trimethylbenzenes.

Note on aqueous solubility and the RSK GrAC

Where the modelled assessment criteria, or the modelled assessment criteria with the correction factor applied to those contaminants specified below, exceeds the aqueous solubility limit the assessment criteria defaults to this concentration and consequently the GrAC is set at the limit of solubility. These assessment criteria are shaded in red in Table 4.

The theoretical aqueous solubility is the maximum amount of a single chemical that will dissolve in pure water at a specified temperature. Above this concentration, the chemical will exist in the non-aqueous phase (i.e. in its natural physical form as a solid, liquid (NAPL) or gas). If the contaminant, based on its toxicity, is not considered to pose a risk to human health at the aqueous solubility concentration then the contaminant can be considered not to pose a risk to human health. Where the GrAC is set at the aqueous solubility limit (shaded in red on Table 4), this is not a risk based assessment criteria but is indicative of the maximum amount of chemical that would be found dissolved in the water. Therefore an exceedance of the RSK GrAC set at the aqueous solubility limit is not indicative that there may be potential risks to human health. It should be noted that for certain contaminants (e.g. the lighter petroleum hydrocarbon fractions) the aqueous solubility is very low and may be at, or below, the laboratory method detection limit. It should also be noted that non-aqueous phase may exist where concentrations of individual compounds are well below their solubility limits where they are part of a mixture, in accordance with Raoult's Law.

Input selection - physical parameters

For the residential scenario, the CLEA default building is a small, two-storey terrace house with a concrete ground-bearing slab as detailed in Table 3. Environment Agency document SR3⁽³⁾ notes this residential building type to be the most conservative in terms of potential for vapour intrusion. The building parameters used in the production of the RSK GrACs are the default CLEA v1.071 inputs presented in Table 3.3 of SR3⁽³⁾.

The RSK GrAC have been calculated for both Sand and Sandy Loam soils. The soil parameters used in the derivation of the RSK GrAC are those presented in Table 3.1 of SR3⁽³⁾.

The RSK GrAC have been derived for groundwater depths of 0.65 m, 1.5 m, 2.5 m and 5.0 m below ground level, incorporating a capillary fringe (see Table 4).

Input selection - attenuation factors

In line with recommendations provided in Environment Agency SR3⁽³⁾ a sub-surface to indoor attenuation factor of 10 has been applied to certain RBCA derived 'site-specific target levels'. SR3⁽³⁾ states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase petroleum hydrocarbons by using partition



coefficients are at least a factor of ten higher than those likely to be measured on-site. This difference is likely to be due to a number of factors, however aerobic biodegradation in the unsaturated zone is believed to be largely responsible. RSK has therefore applied this attenuation factor to all volatile petroleum hydrocarbon fractions (including BTEX, trimethylbenzenes and the polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene). No such attenuation factors have been applied to other non-hydrocarbon chemical species, including chlorinated hydrocarbons or fuel oxygenates such as MtBE.

Convective (volumetric) air flow through foundation cracks (Q_{soil}) is a sensitive parameter in the calculation of GrAC and has been calculated within RBCA on a soil-specific basis for Sand and Sandy Loam in a residential exposure scenario (see Table 3). This approach is less conservative than using the default Q_{soil} value recommended in SR3⁽³⁾ for a Sandy Loam ($25 \text{ cm}^3 \text{ s}^{-1}$) and used in the CLEA model (version 1.071) for Sandy Loam (and Sand) soils ($25 \text{ cm}^3 \text{ s}^{-1}$) in a residential scenario.

Table 3: Residential scenario – RBCA inputs

Parameter	Unit	Value	Justification
Receptor – female child			
Averaging time	Years	6	From Box 3.1, SR3 ⁽³⁾
Receptor weight	kg	13.3	Average of CLEA 0-6 year old female data, Table 4.6, SR3 ⁽³⁾
Exposure duration	Years	6	From Box 3.1, report , SR3 ⁽³⁾
Exposure frequency	Days yr ⁻¹	350	Weighted using occupancy period of 23 hours per day for 365 days of the year
Soil type – sand			
Total porosity	-	0.54	CLEA value for sand. Parameters for sand from Table 4.4, SR3 ⁽³⁾ . Volumetric water content in the vadose zone is a highly sensitive parameter within the model and potentially highly variable in the field.
Volumetric water content – unsaturated (vadose) zone	-	0.24	
Volumetric air content - unsaturated (vadose) zone	-	0.30	
Dry bulk density	g cm ⁻³ or kg L ⁻¹	1.18	
Volumetric water content – capillary zone	-	0.35	Calculated using SR3 Equation 4.1. Value taken as the average moisture content calculated for suction heads (cm H ₂ O); 0 (i.e. saturated), 10, 20, 30, 40, 50 (i.e. unsaturated soil at field capacity). This is a highly sensitive parameter within the model.
Volumetric air content - capillary zone	-	0.19	Calculated from total porosity and volumetric water content of capillary zone. This is a highly sensitive parameter within the model.
Vertical hydraulic conductivity	cm d ⁻¹	636	CLEA value for saturated conductivity of sandy loam, Table 4.4, SR3 ⁽³⁾ equivalent to 7.36 E-03 cm s ⁻¹
Vapour permeability	m ²	7.54 E-12	Calculated for sand using equations in Appendix 1, SR3 ⁽³⁾
Capillary zone thickness	m	0.25	Taken from C W Fetter, Applied Hydrogeology 4 th Ed, 1994 ⁽¹¹⁾ and R Heath, Basic groundwater hydrology 1992 ⁽¹²⁾ for a medium sand
Fraction organic carbon	%	0.0058	Equivalent to SOM = 1%. Note that GrAC are independent on FOC/SOM content since partitioning is assumed to be between aqueous and vapour phases only
Soil type – sandy loam			
Total porosity	-	0.53	CLEA value for sandy loam. Parameters for sandy loam from Table 4.4, SR3 ⁽³⁾ . Volumetric water content in the vadose zone is a highly sensitive parameter within the model and potentially highly variable in the field.
Volumetric water content – unsaturated (vadose) zone	-	0.33	
Volumetric air content - unsaturated (vadose) zone	-	0.20	
Dry bulk density	g cm ⁻³ or kg/L	1.21	
Volumetric water content – capillary zone	-	0.42	Calculated using SR3 Equation 4.1 ⁽³⁾ . Value taken as the average moisture content calculated for suction heads (cm H ₂ O); 0 (i.e. saturated), 10, 20, 30, 40, 50 (i.e. unsaturated soil at field capacity). This is a highly sensitive parameter within the model.
Volumetric air content - capillary zone	-	0.11	Calculated from total porosity and volumetric water content of capillary zone. This is a highly sensitive parameter within the model.

Parameter	Unit	Value	Justification
Vertical hydraulic conductivity	cm d ⁻¹	308	CLEA value for saturated conductivity of sandy loam, Table 4.4, SR3 ⁽³⁾ equivalent to 3.56E-3 cm s ⁻¹
Vapour permeability	m ²	3.05 E-12	Calculated for sandy loam using equations in Appendix 1, SR3 ⁽³⁾
Capillary zone thickness	m	0.4	Taken from R Heath, Basic Groundwater Hydrology 1992 ⁽¹²⁾ for a fine sand. Note: C W Fetter, Applied Hydrogeology 4 th Ed, 1994 ⁽¹¹⁾ value for fine sand is 0.5 m
Fraction organic carbon	%	0.0058	Equivalent to SOM = 1%. Note that GrAC are independent on FOC/SOM content since partitioning is assumed to be between aqueous and vapour phases only
Building – small terrace house			
Building volume/area ratio	m	4.8	Table 3.3, SR3 ⁽³⁾
Foundation area	m ²	28	
Foundation perimeter	m	21.16	Calculated using Equation A2 in SR3 ⁽³⁾ , which assumes the building to be of square proportions.
Building air exchange rate	d ⁻¹	12	Table 3.3, SR3 ⁽³⁾ Building air exchange rate equivalent to 1.4 E-04 s ⁻¹
Depth to bottom of foundation slab	m	0.15	
Foundation thickness	m	0.15	
Foundation crack fraction	-	0.00151	Calculated from floor crack area of 423cm ² and building footprint of 28m ² in Table 4.21, SR3 ⁽³⁾
Volumetric water content of cracks	-	0.24 / 0.33	For sand / sandy loam, assumed equal to underlying soil type in assumption that cracks become filled with unsaturated zone soil over time. Parameters for sand and sandy loam from Table 4.4, SR3 ⁽³⁾
Volumetric air content of cracks	-	0.30 / 0.20	
Indoor/outdoor differential pressure	Pa	3.1	From Table 3.3, SR3 ⁽³⁾ Equivalent to 31 g/cm/s ²
Convective air flow through cracks (Q _{soil}) - Sand	m ³ s ⁻¹	3.4 E-05	Soil-specific calculated parameter in RBCA equivalent (and cross checked) with equations A1, A2, A3, A8, A9 in SR3 ⁽³⁾ . Equivalent to 34 cm³ s⁻¹
Convective air flow through cracks (Q _{soil}) – Sandy Loam	m ³ s ⁻¹	1.4 E-05	Soil-specific calculated parameter in RBCA equivalent (and cross checked) with equations A1, A2, A3, A8, A9 in SR3 ⁽³⁾ . Equivalent to 14 cm³ s⁻¹

RSK GrAC derivation outputs

The RSK GrACs are presented in Table 4.

Within the RSK GrAC the following should be noted:

- GrAC do not take account of outdoor inhalation exposure to VOC, which is considered to contribute minimally to overall inhalation exposure
- GrAC do not take account of other exposure routes potentially relevant to VOC in shallow groundwater such as direct contact or root uptake
- No biodegradation is assumed to occur in the unsaturated zone. Where aerobic conditions on site are known to exist the GrAC for hydrocarbons may therefore be conservative
- GrAC do not take account of preferential flow into buildings such as through unsealed service entries. In such circumstances GrAC may not be appropriate for use
- GrAC are based on a soil vapour intrusion CSM and are not appropriate for use when the foundation is in direct contact with contaminated groundwater

- GrAC assume that the capillary fringe is un-contaminated with VOC, which is unlikely, particularly where groundwater levels are variable
- GrAC set at the theoretical aqueous solubility limit are not considered to pose a risk to human health
- GrAC do not take into account the interaction between contaminants and the influence this may have on the theoretical aqueous solubility
- GrACs are only applicable to dissolved phase contaminants where the modelled assessment criteria is below the aqueous solubility limits

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		Table 4: RSK GrAC (ug/l)							
		RESIDENTIAL							
		SAND				SANDY LOAM			
GW Depth (m)		0.65	1.5	2.5	5	0.65	1.5	2.5	5
Metals									
Elemental mercury		2.5	3.6	5.0	8.4	14.3	18.5	23.4	35.8
Methyl mercury		21550	27220	33880	50540	46300	48510	51110	57610
Volatile Organic Compounds									
Benzene		470	670	900	1490	2900	3640	4510	6680
Toluene		515140	590000	590000	590000	590000	590000	590000	590000
Ethylbenzene		24300	35190	48000	80020	156380	180000	180000	180000
Xylene - m		22610	32750	44670	74480	144250	181800	200000	200000
Xylene - o		27570	39950	54500	90900	174260	173000	173000	173000
Xylene - p		23640	34230	46700	77860	150470	189710	200000	200000
Total xylene		22610	32750	44670	74480	144250	173000	173000	173000
Methyl tertiary-Butyl ether (MTBE)		185010	267500	364520	607070	945700	1245710	1598660	2481040
Trichloroethene		13	18	25	41	82	100	130	190
Tetrachloroethene		80	120	160	260	520	650	810	1200
1,1,1-Trichloroethane		7110	10230	13910	23090	46230	57820	71450	105540
1,1,1,2-Tetrachloroethane		550	800	1100	1830	3330	4250	5330	8040
1,1,2,2-Tetrachloroethane		3620	5320	7320	12320	14600	20600	27650	45290
Carbon Tetrachloride		12	17	24	39	79	98	120	180
1,2-Dichloroethane		20	28	38	63	100	140	170	260
Vinyl Chloride		1.3	1.8	2.4	4.0	8	10	12	18
1,2,4-Trimethylbenzene		980	1430	1960	3270	6240	7900	9850	14720
Semi-Volatile Organic Compounds									
Acenaphthene		4100	4100	4100	4100	4100	4100	4100	4100
Acenaphthylene		7950	7950	7950	7950	7950	7950	7950	7950
Naphthalene		5100	7530	10380	17510	19000	19000	19000	19000
Petroleum Hydrocarbons									
Aliphatic hydrocarbons EC5-EC6		4170	5900	7930	13020	26560	32990	35900	35900
Aliphatic hydrocarbons >EC6-EC8		3210	4540	5370	5370	5370	5370	5370	5370
Aliphatic hydrocarbons >EC8-EC10		120	170	230	380	427	427	427	427
Aliphatic hydrocarbons >EC10-EC12		33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
Aliphatic hydrocarbons >EC12-EC16		0.759	0.759	0.759	0.759	0.759	0.759	0.759	0.759
Aromatic hydrocarbons >EC8-EC10		4150	5870	7900	12960	25730	32120	39630	58400
Aromatic hydrocarbons >EC10-EC12		14480	20510	24500	24500	245000	245000	245000	245000
Aromatic hydrocarbons >EC12-EC16		5750	5750	5750	5750	5750	5750	5750	5750
Notes:									
Values less than 100 have not been rounded up or down; values greater than 100 have been rounded to the nearest 10.									
Highlighted values exceed solubility limit for the pure compound in water (aqueous solubility); GrAC defaults to the limit of solubility.									
No vadose zone biodegradation considered									
Sub-surface to indoor air correction factor of 10 applied to all petroleum (non-chlorinated) hydrocarbons									
All GrAC are for 1% SOM (0.0058 FOC)									

APPENDIX G

Generic Assessment Criteria for a Controlled Waters

GENERIC ASSESSMENT CRITERIA FOR CONTROLLED WATERS

Protection of the water environment

The water environment in the United Kingdom is protected under a number of regulatory regimes. The relevant environmental regulator is consulted where there may be a risk that pollution of 'controlled waters' may occur or may have occurred in the past.

The term 'controlled waters' refers to coastal waters, inland freshwaters and groundwater. The EU Water Framework Directive (WFD) (2000/60/EC) is implemented via domestic regulations and guidance, covering aspects of groundwater and surface water protection as well as drinking water supply policy. Domestic legislation and guidance will vary across the United Kingdom. Therefore, the relevant legislation for England, Wales, Northern Ireland and Scotland should be reviewed, alongside guidance provided by the Environment Agency (EA), Natural Resource Wales (NRW), the Scottish Environmental Protection Agency (SEPA) or the Northern Ireland Environment Agency (NIEA), as appropriate.

The main objectives of the protection and remediation of groundwater under threat from land contamination are set out within "The Environment Agency's approach to groundwater protection", version 1.0 (March 2017)⁽¹⁾ and the associated guidance "Land contamination groundwater compliance points: quantitative risk assessments (March 2017)^(1a) that have replaced the previous guidance document "Groundwater Principles and Practice (GP3)". When assessing risks to groundwater, the following need to be considered:

- Where pollutants have not yet entered groundwater, all necessary and reasonable measures must be taken to:
 - **prevent** the input of **hazardous** substances into groundwater (see description of hazardous substances below)
 - **limit** the entry of other (non-hazardous) pollutants into groundwater to avoid pollution, deterioration in the status of groundwater bodies and to prevent sustained, upward trends in pollutant concentrations in groundwater.
- Where pollutants have already entered groundwater, the priority is to take all necessary and reasonable measures to:
 - **minimise** further entry of "contaminants" where there is a defined source
 - **limit the pollution** of groundwater or any effect on the status of the groundwater body from the future expansion of the 'plume', if necessary, by actively reducing its extent.

Within the context of groundwater risk assessments on sites affected by land contamination, "reasonable" means feasible without involving disproportionate costs. What costs are "disproportionate" depends on site-specific circumstances, which may include:

- Considerations of technical feasibility such as identified by the remedial options appraisal, this may be due to the distribution or nature of the contamination and the available remedial methods to treat the identified contamination;
- Sustainability considerations.

DEFINITIONS AND SUBSTANCE CLASSIFICATIONS

Risks to surface waters:

When assessing risks to surface waters, the following list of definitions should be understood:

Priority substances (PS) are harmful substances originally identified under the Water Framework Directive (WFD) 2000/60/EC as substances ‘presenting a significant risk to or via the aquatic environment’ at a European level. Member States are required to incorporate the identified **PS** into their country-wide monitoring programmes. There are currently 33 **PS** defined within the Priority Substances Directive (2013/39/EU; Annex 1), with a further 12 additional substances due to come into force from 22 December 2018. Directive 2013/39/EU has been transposed into domestic legislation for England and Wales by The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

Under the umbrella of **PS**, there is a sub-set of substances identified as being “hazardous”, and these are referred to as **Priority hazardous substances (PHS)**. The list of **PHS** is defined at EU level within the Priority Substances Directive (2013/39/EU). The WFD defines hazardous substances as ‘substances (or groups of substances) that are toxic, persistent and liable to bio-accumulate, and other substances or groups of substances that give rise to an equivalent level of concern.’ There are currently 15 **PHS**, with a further 6 additional substances due to come into force from 22 December 2018.

There is also another group of substances defined at EU level and which are referred to as **other pollutants (OP)** in Directive 2013/39/EU. These are additional substances which although not **priority substances**, have EQS which are identical to those laid down in the legislation which applied prior to 13 January 2009 (Directive 2008/105/EU). The **OP** are listed along with the **priority substance (PS)** within the Priority Substances Directive (2013/39/EU), and their associated EQS are also listed therein. There are 6 **OP** defined within the Priority Substances Directive (2013/39/EU).

In addition to the EU level substances, there are also a group of pollutants defined at a Member State level, referred to as **Specific pollutants (SP)**. These substances are pollutants which are released in significant quantities into water bodies in each of the individual European Member States. Under the WFD, Member States are required to set their own EQS for these substances. An indicative list of **SP** is given in Annex VIII of the WFD. Many of the substances categorised as **SP** in the UK were formerly List 2 substances under the old Groundwater Directive (80/68/EEC). The **SP** are defined within Part 2 (Table 1) of The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

Risks to groundwater:

When assessing risks to groundwater, the following definitions should be understood:

Under the requirements of the Groundwater Daughter Directive (2006/118/EU), the UK has published a list of substances it considers to be **hazardous substances** with respect to groundwater. In their advisory capacity to the government, this list has been derived by the UK Joint Agencies Groundwater Directive Advisory Group (JAGDAG), of which the Environment Agency is a member. The JAGDAG list of **hazardous substances** was published in January 2017 and the Environment Agency will use the updated list of hazardous substances from this date for all new activities that may lead to the discharge of hazardous substances to groundwater. The list is extensive and can be found in full at:

<https://www.wfduk.org/stakeholders/jagdag>

Selecting the appropriate assessment criteria

When assessing the risks to controlled waters, various assessment criteria apply, depending on the nature of the assessment and the conceptual site model.

Where a surface water body is involved, then Environmental Quality Standards (EQS) are the relevant assessment criteria as they are designed to be protective of surface water ecology.

Where a public water supply or a Principal aquifer is involved, then the standards defined in The Water Supply (Water Quality) Regulations⁽²⁾ are the primary source of assessment criteria. The Private Water Supplies Regulations⁽³⁾ may also be applicable in some cases. For instances where there are no UK assessment criteria, then the World Health Organisation (WHO) drinking water guidelines⁽⁴⁾ may be used.

This appendix presents the generic assessment criteria (GAC) that RSK considers suitable for assessing risks to controlled waters for our most commonly encountered determinants. A full list of EQS for England and Wales are included in The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

The RSK GAC for controlled waters are presented in **Table 1** and **Table 2**. In line with the Environment Agency's Remedial Targets Methodology, the GAC for controlled waters are termed 'target concentrations'.

The appropriate target concentrations should be selected with consideration to:

- the site conceptual model (i.e. the receptor at potential risk);
- whether the substance is already present in groundwater at the site;
- whether or not the substance is classified as a priority hazardous substance under the Priority Substances Directive (2013/39/EC) (see above), or as a hazardous substance according to the current list of JAGDAG determinations⁽⁵⁾; and
- background concentrations in the aquifer (if applicable).

It is important to remember that the WFD and Environment Agency guidance^(1 & 1a) support a sustainable, risk-based approach be applied to groundwater contamination. Exceedance of any target concentration does not necessarily imply that an unacceptable risk exists or that remediation is inevitably required.

Target concentrations shaded in green are <u>statutory values</u>	Target concentrations shaded in orange are <u>non-statutory values</u>
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Note: Units µg/l throughout (unless otherwise stated)

Table 1: Target concentrations for controlled waters (excluding TPH CWG fractions)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Metals & other inorganics						
Hazardous substance	Specific pollutant	Arsenic	-	10 ⁽²⁾	50 ^(6a)	25 ^(6a)
Non-hazardous pollutant	Priority substance	Cadmium	0.1 ⁽⁷⁾	5 ⁽²⁾	≤0.08, 0.08, 0.09, 0.15, 0.25 ^(6b)	0.2 ^(6a)
<i>(Not determined)</i>	-	Chromium (total)	-	50 ⁽²⁾	Sum values for chromium III and VI	
<i>(None)</i>	Specific pollutant	Chromium (III)	-	Use value for total chromium	4.7 ^(6a)	-
Hazardous substance	Specific pollutant	Chromium (VI)	-		3.4 ^(6a)	0.6 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
<i>(Not determined)</i>	Specific pollutant	Copper	-	2,000 ⁽²⁾	1 bioavailable ^(6a)	3.76 dissolved, where DOC ≤1mg/l ^(6a)
						3.76µg/l + (2.677µg/l x ((DOC/2) – 0.5µg/l)) dissolved, where DOC >1mg/l ^(6a)
Hazardous substance	Priority substance	Lead	-	10 ⁽²⁾	1.2 bioavailable ^(6a)	1.3 ^(6a)
Hazardous substance	Priority hazardous substance	Mercury	0.01 ⁽⁷⁾	1 ⁽²⁾	0.07 ^(6c)	0.07 ^(6c)
Non-hazardous pollutant	Priority substance	Nickel	-	20 ⁽²⁾	4.0 bioavailable ^(6a)	8.6 ^(6a)
Non-hazardous pollutant	-	Selenium	-	10 ⁽²⁾	-	-
Non-hazardous pollutant	Specific pollutant	Zinc	-	3,000 ⁽⁸⁾	10.9 bioavailable ^(6a)	6.8 dissolved ^(6a)
<i>None</i>	Specific pollutant	Iron	-	200 ⁽²⁾	1000 ^{(6a)*1}	1000 ^{(6a)*1}
<i>None</i>	Specific pollutant	Manganese	-	50 ⁽²⁾ (0.05mg/l)	123 bioavailable ^(6a) (0.123mg/l)	-
<i>(Not determined)</i>	-	Aluminium	-	200 ⁽²⁾	-	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority hazardous substance	Tributyltin compounds (Tributyltin-cation)	0.001 ⁽⁷⁾	-	0.0002 ^(6a)	0.0002 ^(6a)
<i>(Not determined)</i>	-	Sodium	-	200,000 ⁽²⁾ (200 mg/l)	-	-
Non-hazardous pollutant	Specific pollutant	Cyanide (Hydrogen cyanide)	-	50 ⁽²⁾ (0.05 mg/l)	1 ^(6a) (0.001 mg/l)	1 ^(6a) (0.001 mg/l)
Non-hazardous pollutant	-	Total ammonia [§] (ammonium (as NH ₄ ⁺) plus ammonia (NH ₃))	-	500 ⁽²⁾ (0.5 mg/l)	300 ^(6f) (0.3 mg/l)	-
Non-hazardous pollutant	Specific pollutant	Ammonia un-ionised (NH ₃)	-	-	-	21 ^(6a) (0.021 mg/l)
Non-hazardous pollutant	Specific pollutant	Chlorine	-	-	2 ^(6a) (0.002 mg/l)	10 ^(6d) (0.01 mg/l)
<i>(Not determined)</i>	-	Chloride	-	250,000 ⁽²⁾ (250 mg/l)	-	-
<i>(Not determined)</i>	-	Sulphate	-	250,000 ⁽²⁾ (250 mg/l)	-	-
<i>(Not determined)</i>	-	Nitrate (as NO ₃)	-	50,000 ⁽²⁾ (50 mg/l)	-	-
<i>(Not determined)</i>	-	Nitrite (as NO ₂)	-	500 ⁽²⁾ (0.5 mg/l)	10 ⁽⁹⁾ (0.01 mg/l)	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Volatile organic compounds (VOC)						
Non-hazardous pollutant	Other pollutant	Tetrachloroethene (tetrachloroethylene; PCE)	0.1 ⁽⁷⁾	10 ⁽²⁾ sum of TCE and PCE	10 ^(6a)	10 ^(6a)
Hazardous substance	Other pollutant	Trichloroethene (trichloroethylene; TCE)	0.1 ⁽⁷⁾		10 ^(6a)	10 ^(6a)
<i>None</i>	Specific pollutant	Tetrachloroethane	-	-	140 ^(6a)	-
Hazardous substance	Other pollutant	Carbon tetrachloride (tetrachloromethane)	0.1 ⁽⁷⁾	3.0 ⁽²⁾	12 ^(6a)	12 ^(6a)
Non-hazardous pollutant	Priority substance	1,2-Dichloroethane	1.0 ⁽⁷⁾	3.0 ⁽²⁾	10 ^(6a)	10 ^(6a)
Non-hazardous pollutant	-	1,2-Dichloroethene (DCE)	-	50.0 ⁽⁴⁾	-	-
Hazardous substance	-	Vinyl chloride (chloroethene)	-	0.5 ⁽²⁾	-	-
Non-hazardous pollutant	Priority substance	Dichloromethane	-	20 ⁽⁴⁾	20 ^(6a)	20 ^(6a)
Non-hazardous pollutant	Priority substance	Trichlorobenzenes	0.01 ⁽⁷⁾	-	0.4 ^(6a)	0.4 ^(6a)
<i>(Not determined)</i>	-	Trihalomethanes	-	100 ^(2a)	-	-



Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority substance	Trichloromethane (Chloroform)	0.1 ⁽⁷⁾	(see "Trihalomethanes" above)	2.5 ^(6a)	2.5 ^(6a)
Non-hazardous pollutant	Priority hazardous substance	Di(2-ethylhexyl) phthalate (bis(2-ethylhexyl) phthalate, DEHP)	-	8 ⁽⁴⁾	1.3 ^(6a)	1.3 ^(6a)
<i>None</i>	Specific pollutant	Benzyl butyl phthalate	-	-	7.5 ^(6a)	0.75 ^(6e)
Hazardous substance	Priority hazardous substance	Hexachlorobutadiene	0.005 ⁽⁷⁾	0.6 ⁽⁴⁾	0.6 ^(6c)	0.6 ^(6c)
Semi-volatile organic compounds (SVOC)						
<i>(Not determined)</i>	-	Acenaphthylene (C12-C16)	-	-	5.8 ⁽¹⁰⁾	
Hazardous substance	Priority hazardous substance	Anthracene (C16-C21)	-	-	0.1 ^(6a)	0.1 ^(6a)
Non-hazardous pollutant	Priority substance	Naphthalene (C10-C12)	-	-	2 ^(6a)	2 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority substance	Fluoranthene (C21-C35)	-	-	0.0063 ^(6a)	0.0063 ^(6a)
Hazardous substance(s)	Priority hazardous substance(s)	Benzo(a)pyrene (C21-C35)	-	0.01 ⁽²⁾	0.00017 ^(6a)	0.00017 ^(6a)
		Benzo(b)fluoranthene (C21-C35)	-	0.1 ⁽²⁾ sum of the concentration of the four specified compounds	No EQS for these substances. B(a)P should be used as the indicator compound instead.	
		Benzo(k)fluoranthene (C21-C35)	-			
		Benzo(g,h,i)perylene (C21-C35)	-			
		Indeno(1,2,3-cd)pyrene (C21-C35)	-			
Non-hazardous pollutant	Specific pollutant	Phenol		-	7.7 ^(6a)	7.7 ^(6a)
Hazardous substance	Specific pollutant	2,4-Dichlorophenol	0.1 ⁽⁷⁾	-	4.2 ^(6a)	0.42 ^(6a)
Hazardous substance	Priority substance	Pentachloro-phenol (PCP)	0.1 ⁽⁷⁾	g ⁽⁴⁾	0.4 ^(6a)	0.4 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Petroleum hydrocarbons						
Hazardous substance	-	Total petroleum hydrocarbons	-	See Table 2 for individual (non-statutory) TPH CWG fractions with respect to drinking water receptors	See individual risk driving compounds (i.e. BTEX and PAH) for specific EQS	
Hazardous substance	Priority substance	Benzene (C5-C7)	1 ⁽⁷⁾	1 ⁽²⁾	10 ^(6a)	8 ^(6a)
Hazardous substance	Specific pollutant	Toluene (C7-C8)	4 ⁽⁷⁾	700 ⁽⁴⁾	74 ^(6a)	74 ^(6a)
Hazardous substance	-	Ethylbenzene (C8-C9)	-	300 ⁽⁴⁾	-	-
<i>(Not determined)</i>	-	Xylenes (C8-C10)	3 ⁽⁷⁾	500 ⁽⁴⁾	30 ⁽¹¹⁾	-
Non-hazardous pollutant	-	Methyl tertiary butyl ether (MTBE)	-	15 ⁽¹²⁾	-	-
Pesticides, fungicides, insecticides and herbicides						
Hazardous substance(s)	Other pollutant (Cyclodiene)	Aldrin	0.003 ⁽⁷⁾	0.03 ⁽²⁾	0.01 ^(6a) (sum of all four)	0.005 ^(6a) (sum of all four)
		Dieldrin	0.003 ⁽⁷⁾	0.03 ⁽²⁾		

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
	pesticides)	Endrin	0.003 ⁽⁷⁾	0.1 ^(2b)		
		Isodrin*2	0.003 ⁽⁷⁾	0.1 ^(2b)		
Hazardous substance	Other pollutant	DDT (total)	0.002 ⁽⁷⁾	1 ⁽⁴⁾	0.025 ^(6a)	0.025 ^(6a)
<i>(Not determined) – assume to be Hazardous Substance</i>	-	Total pesticides	-	0.5 ⁽²⁾	-	-
<i>(Not determined) - assume to be Hazardous Substance</i>	-	Other individual pesticides	-	0.1 ⁽²⁾		
Hazardous substance	Specific pollutant	Carbendazim	-	-	0.15 ^(6a)	-
Hazardous substance	Specific pollutant	Chlorothalonil	-	-	0.035 ^(6a)	-
Hazardous substance	Specific pollutant (until 22/12/18, after which it becomes a Priority substance)	Cypermethrin	-	-	0.0001 ^(6a) From 22/12/18: 8.0E-5 ^(6a)	0.0001 ^(6a) From 22/12/18: 8.0E-6 ^(6a)
Hazardous substance	Specific pollutant	Dimethoate	0.01 ⁽⁷⁾	-	0.48 ^(6a)	0.48 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
<i>(Not determined)</i>	Specific pollutant	Glyphosate	-	-	196 ^(6a)	196 ^(6a)
Hazardous substance	Specific pollutant	Linuron	-	-	0.5 ^(6a)	0.5 ^(6a)
Non-hazardous pollutant	Specific pollutant	Mecoprop	0.04 ⁽⁷⁾	-	18 ^(6a)	18 ^(6a)
Non-hazardous pollutant	Specific pollutant	Methiocarb	-	-	0.01 ^(6a)	-
Non-hazardous pollutant	Specific pollutant	Pendimethalin	-	20 ⁽⁴⁾	0.3 ^(6a)	-
Hazardous substance	Specific pollutant	Permethrin	0.001 ⁽⁷⁾	-	0.001 ^(6a)	0.0002 ^(6a)
Hazardous substance	Priority substance	Alachlor	-	20 ⁽⁴⁾	0.3 ^(6a)	0.3 ^(6a)
Hazardous substance	Priority substance	Atrazine	0.03 ⁽⁷⁾	100 ⁽⁴⁾	0.6 ^(6a)	0.6 ^(6a)
Hazardous substance	Priority substance	Diuron	-	-	0.2 ^(6a)	0.2 ^(6a)
Hazardous substance	Priority hazardous substance	Endosulphan	0.005 ⁽⁷⁾	-	0.005 ^(6a)	0.0005 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Non-hazardous pollutant	Priority substance	Isoproturon	-	9 ⁽⁴⁾	0.3 ^(6a)	0.3 ^(6a)
Hazardous substance	Priority substance	Simazine	0.03 ⁽⁷⁾	2 ⁽⁴⁾	1 ^(6a)	1 ^(6a)
Hazardous substance	Priority hazardous substance	Trifluralin	0.01 ⁽⁷⁾	20 ⁽⁴⁾	0.03 ^(6a)	0.03 ^(6a)
<i>(Not determined)</i>	From 22/12/18: Priority substance	Dichlorovos	-	-	From 22/12/18: 6.0E-4 ^(6a)	From 22/12/18: 6.0E-5 ^(6a)
Hazardous substance	From 22/12/18: Priority substance	Heptachlor and heptachlor epoxide	-	0.03 ⁽²⁾	From 22/12/18: 2.0E-7 ^(6a)	From 22/12/18: 1.0E-08 ^(6a)
Miscellaneous						
<i>None</i>	Specific pollutant	Triclosan (antibacterial agent)	-	-	0.1 ^(6a)	0.1 ^(6a)
Hazardous substance	From 22/12/18: Priority hazardous substance	Perfluoro-octane sulfonic acid (and its derivatives) (PFOS)	-	-	From 22/12/18: 6.5E-4 ^(6a)	From 22/12/18: 1.3E-4 ^(6a)
Hazardous substance	From 22/12/18: Priority hazardous substance	Hexabromo cyclododecane (HBCDD)	-	-	From 22/12/18: 0.0016 ^(6a)	From 22/12/18: 0.0008 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters

Notes:

[‘] A target concentration is not available.

[§]Please note that total ammonia (NH₄⁺ and NH₃) is equivalent to ammoniacal nitrogen in laboratory reports

^{*1} Please note that although iron is listed in the 2015 Direction as 1.000 µg/l, the EQS remains at 1mg/l in Scotland and it is assumed this is an error and should read either 1,000 or 1000µg/l.

^{*2} Please note that although Isodrin is not listed in name within the group of “Cyclodiene pesticides” in Table 1 of Schedule 3 Part 3 of the 2015 Direction⁽⁶⁾, the CAS number for Isodrin (465-73-6) is listed and therefore it is assumed that it has been missed off the named list of substances.

^{*3} Total petroleum hydrocarbons is used for consistency, but is an analytical method-defined measurement for a mixture of hydrocarbons subject to environmental analysis¹¹.

“Bioavailable” in relation to copper, zinc, nickel and manganese (but not lead) is the generic EQSbioavailable^(6a) derived from the Metal Bioavailability Assessment Tool (M-BAT) developed by the Water Framework Directive UK Technical Advisory Group (WFDTAG). Exceedance of this value should prompt a site-specific assessment using the M-BAT with pH, DOC and Ca to derive a site-specific EQS termed the PNEC_{dissolved}.
<http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat>.

For zinc, if there is an exceedance of the EQSbioavailable in an initial GQRA, Tier 2 required that the EQS for zinc should also have the ambient background concentration of zinc added as well

Table 2: World Health Organization (WHO) guide values for TPH CWG fractions in drinking water⁽¹³⁾ (as referenced in CL:AIRE, 2017⁽¹¹⁾)

TPH CWG fraction	WHO guide value for drinking water ⁽¹³⁾ (µg/l)
Aliphatic fractions:	
Aliphatic EC5-EC6	15,000
Aliphatic >EC6-EC8	15,000
Aliphatic >EC8-EC10	300
Aliphatic >EC10-EC12	300
Aliphatic >EC12-EC16	300
Aliphatic >EC16-EC21	-
Aliphatic >EC21-EC35	-
Aromatic fractions:	
Aromatic EC5-EC6	10 (benzene)
Aromatic >EC6-EC8	700 (toluene)
Aromatic >EC8-EC10	300 (ethyl benzene) 500 (xylenes)
Aromatic >EC10-EC12	90
Aromatic >EC12-EC16	90
Aromatic >EC16-EC21	90
Aromatic >EC21-EC35	90
Reference: World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva ⁽¹³⁾ .	

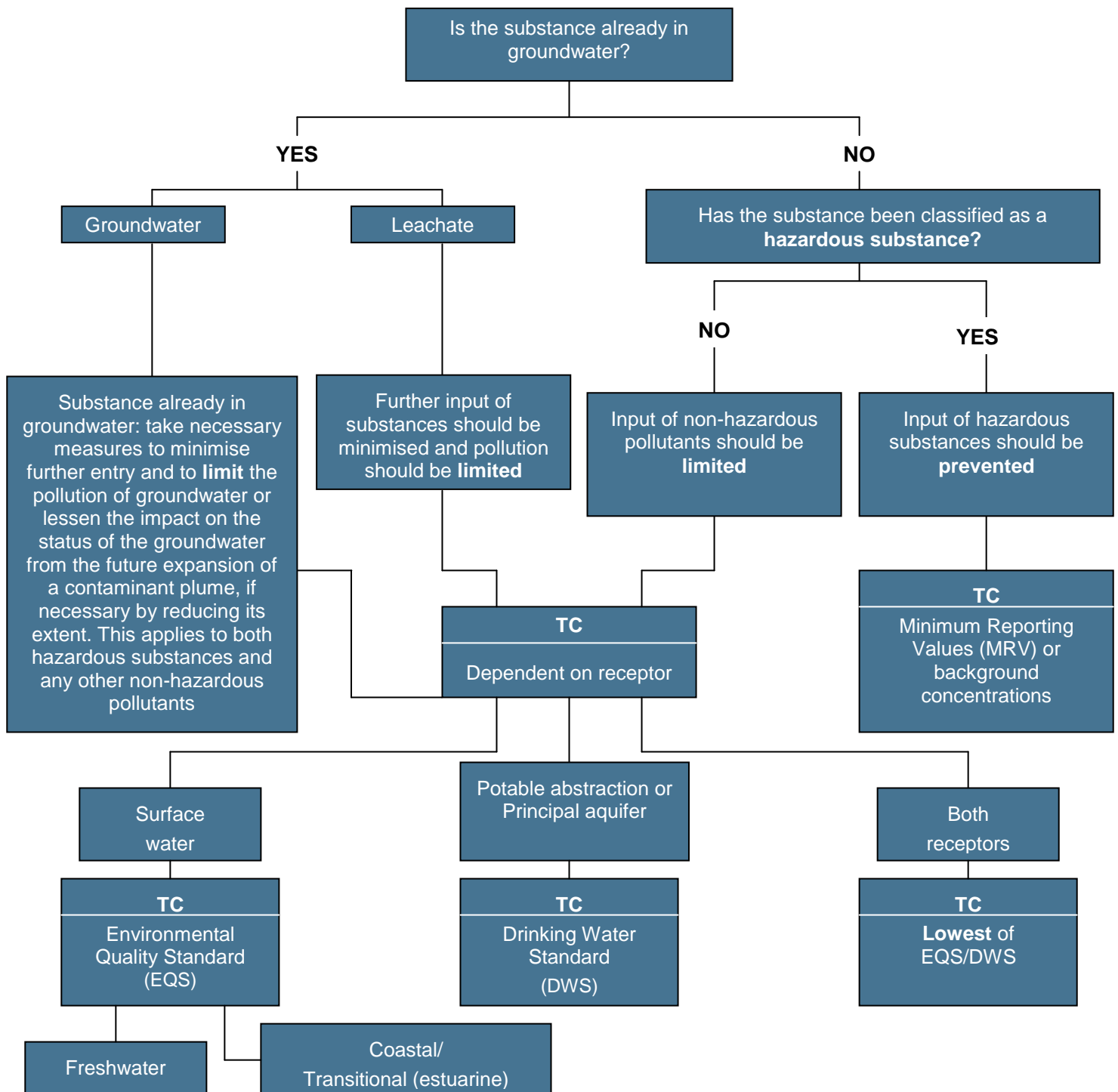
References

1. Environment Agency (2017), 'The Environment Agency's approach to groundwater protection', version 1.0, March 2017 (formerly contained within GP3) [accessed 29 March 2017].
<https://www.gov.uk/government/collections/groundwater-protection>
- 1a. Environment Agency (2017), 'Land contamination groundwater compliance points: quantitative risk assessments', March 2017 (formerly contained within GP3) [accessed 29 March 2017].
<https://www.gov.uk/government/collections/groundwater-protection>
2. The Water Supply (Water Quality) Regulations 2016 (SI 2016/619)
 - 2a. Sum of chloroform, bromoform, dibromochloromethane and bromodichloromethane
 - 2b. Standard applies to individual pesticides except aldrin, dieldrin, heptachlor and heptachlor epoxide, for which a separate standard is defined.
3. The Private Water Supplies (England) Regulations 2016. SI 2016 / 618
4. WHO (2011), *Guidelines for drinking-water quality*, 4th edn
5. JAGDAG hazard substance determinations: This list contains substances that are determined to be hazardous substances or non-hazardous pollutants for the purposes of the groundwater directive 2006/118/EC. The absence of an assessment or substance from the list means an assessment has not been done yet and is presented as 'Not yet determined'; if a substance has been assessed but does not fall into either category it is presented as 'None'. For further details on how substances are assessed, see the Joint Agencies Groundwater Directive Advisory Group (JAGDAG) 'Methodology for the determination of hazardous substances in groundwater for the purposes of the groundwater directive 2006/118/EC' which is available from the JAGDAG website. The methodology is a UK-wide framework that sets criteria for how to assess whether a substance is a hazardous substances in groundwater. The list of substances can be found at:
<https://www.wfduk.org/stakeholders/jagdag>
6. The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.
 - 6a. The EQS for these substances are based on a "long term mean" or an "annual average (AA)" EQS.
 - 6b. For cadmium and its compounds the EQS values vary depending on the hardness of the water as specified in five class categories (Class 1: < 40 mg CaCO₃/l, Class 2: 40 to < 50 mg CaCO₃/l, Class 3: 50 to < 100 mg CaCO₃/l, Class 4: 100 to < 200 mg CaCO₃/l and Class 5: ≥ 200 mg CaCO₃/l).
 - 6c. The EQS for Mercury and hexachlorobutadiene are based on a "maximum acceptable concentration (MAC)" EQS in absence of an "annual average (AA)" EQS.
 - 6d. The EQS for chlorine in saltwater is based on the 95th percentile concentration of total residual oxidant, which refers to the sum of all oxidising agents existing in water, expressed as available chlorine.
 - 6e. The recommended saltwater standard is derived using a safety factor of 100. Where the standard is failed, it is recommended that supporting evidence of ecological damage should be obtained before committing to expensive action.
 - 6f. EQS for total ammonia is as per Schedule 3, Part 1, Table 7 of the above directions. EQS applies to river types 1, 2 and 4 and 6 (namely upland and low alkalinity). The EQS for a lowland and high alkalinity rivers (types 3, 5 and 7) is 600µg/l (0.6mg/l).

Additional information on the Metal Bioavailability Assessment Tool (M-BAT) is available at <http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat>

7. Minimum reporting values listed at <https://www.gov.uk/government/publications/values-for-groundwater-risk-assessments/hazardous-substances-to-groundwater-minimum-reporting-values> (updated 13 January 2017; accessed 29 March 2017). Note target concentration for xylenes is 3 µg/l each for o-xylene and m/p xylene as it may not be possible to separate m- and p-xylene; 135 tcb, 124 tcb, 123 tcb each to 0.01 µg/l)
8. The Surface Waters (Abstraction for Drinking Water) (Classification) Regulations 1996 (as amended). SI 1996 / 3001
9. Council Directive on the Quality of Fresh Waters Needing Protection or Improvement in Order to Support Fish Life (Freshwater Fish Directive) (78/659/EEC)
10. WRc plc (2002), R&D Technical Report P45.
11. CL:AIRE, 2017. Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. V1.1.
12. Drinking Water Inspectorate (London, UK). Environmental Information Request on MTBE in drinking water. Ref. DWI 1/10/18; dated 28 November 2006. Value is based on the odour threshold for MTBE, which is lower than a health-based guideline value
13. World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva. [accessed 29 March 2017] http://www.who.int/water_sanitation_health/dwq/chemicals/petroleumproducts_2add_june2008.pdf

FLOW CHART TO ASSIST WITH SELECTION OF TARGET CONCENTRATIONS



TC = Target concentration

When leachate is being assessed the 'compliance point' is the groundwater body. Therefore dilution within the groundwater body may be applied with caution before comparing with the TC.

When directly assessing a receptor, e.g., a river, the appropriate TC should be selected.