S.I. Ltd Contract No: 6100

Client:	Caitn Homes Ltd
Engineer:	DBFL
Contractor:	Site Investigations Ltd

Blessington – Phase 3,
Oak Road, Blessington, Co. Wicklow
Site Investigation Report

Prepared by:

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Stephen Letch

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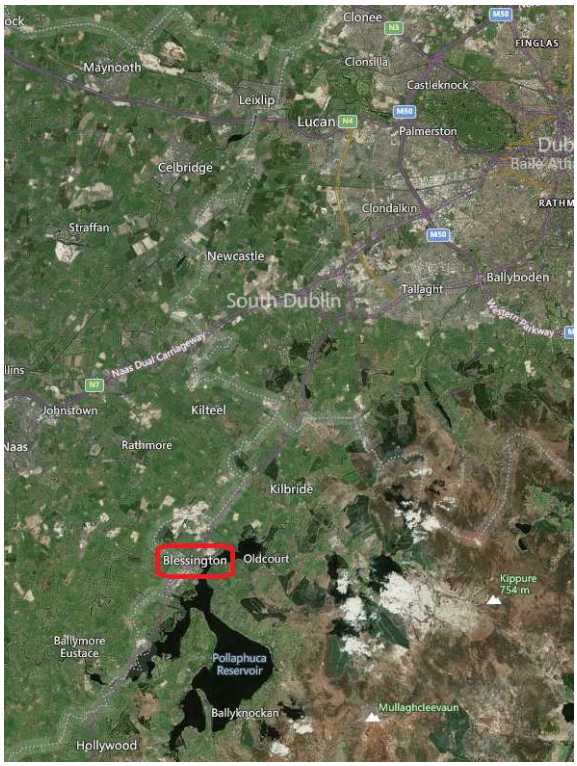
1. Introduction

On the instructions of the Engineer, DBFL, Site Investigations Ltd (SIL) were appointed to complete a site investigation at Oak Road, Blessington, Co. Wicklow. The investigation was undertaken for a residential development on behalf of Cairn Homes Ltd and was started in April and completed in June 2023.

This draft report presents the factual geotechnical data obtained from the field and laboratory testing with interpretation of the ground conditions discussed. The report may be used for reference only with no permission for the report to be used in planning permission submissions. The final report will be issued on receipt of payment and at that time, the report may be used for design purposes and planning permission submissions.

2. Site Location

The site is located off Oak Road in Blessington, north county Wicklow. The map on the left shows the location of the site to the south west of Dublin and the second map shows the site location in the town.



3. Fieldwork

All fieldworks were completed in accordance with BS 5930:2015, Engineers Ireland GI Specification and Related Document 2nd Edition 2016 and Eurocode 7: Geotechnical Design.

The fieldworks comprised of the following:

- 8 No. cable percussive boreholes
- 166 No. trial pits
- 257 No. dynamic probes
- 4 No. soakaway tests
- 2 No. slit trenches
- 36 No. California bearing ratio tests
- 2 No. road cores

3.1. Cable Percussive Boreholes

Cable percussion boring was undertaken at 8 No. locations using a Dando 150 rig and constructed 200mm diameter boreholes. After CAT scanning the locations, hand dug inspection pits were excavated to 1.00mbgl to check for underground services. It was not possible to collect undisturbed samples due to the granular soils encountered so bulk disturbed samples were recovered at regular intervals. The boreholes terminated at similar depths of 10.50mbgl to 12.10mbgl after an hour and a half of chiselling was completed with no further progress.

To test the strength of the stratum, Standard Penetration Tests (SPT's) were performed at 1.00m intervals in accordance with BS 1377 (1990). In soils with high gravel and cobble content it is appropriate to use a solid cone (60°) (CPT) instead of the split spoon and this was used throughout the testing. The test is completed over 450mm and the cone is driven 150mm into the stratum to ensure that the test is conducted over an undisturbed zone. The cone is then driven the remaining 300mm and the blows recorded to report the N-Value. The report shows the N-Value with the 75mm incremental blows listed in brackets (e.g., BH01 at 1.00mbgl where N=8-(1,2/2,1,2,3)). Where refusal of 50 blows across the test zone was encountered was achieved during testing, the penetration depth is also reported (e.g., BH01 at 5.00mbgl where N=50-(3,10/50 for 230mm)).

At each location, groundwater monitoring standpipes were installed to allow for monitoring of the groundwater table. These incorporated slotted pipe with gravel response zones to allow for equalisation of the groundwater in the pipe.

The cable percussive logs are presented in Appendix 1.

3.2. Trial Pits

Initially 174 No. trial pits were scheduled by the Engineer but on the advice of the Archaeologists supervising the works, 8 No. pits were cancelled and a further 6 No. locations were terminated at 0.50mbgl due to possible archaeology. The trial pits were excavated using a wheeled excavator and were logged and photographed by SIL geotechnical engineer. Representative

disturbed bulk samples were recovered as the pits were excavated, which were returned to the laboratory for geotechnical testing and pit wall stability and groundwater ingresses were recorded.

The trial pit logs and photographs are presented in Appendix 2.

3.3. Dynamic Probes

Initially 280 No. dynamic probes were scheduled but 257 No. probes were completed after consultation with the Archaeologist. The probes were completed using a track mounted Competitor 130 machine and the testing complies with the requirements of BS1377: Part 9 (1990) and Eurocode 7: Part 3. The configuration utilised standard DPH (Heavy) probing method comprising a 50kg weight, 500mm drop height and a 50mm diameter (90°) cone. The number of blows required to drive the cone each 100mm increment into the sub soil is recorded in accordance with the standards. The dynamic probe provides no information regarding soil type or groundwater conditions.

The dynamic probe results can be used to analyse the strength of the soil strata encountered by the probe. 'Proceedings of the Trinity College Dublin Symposium of Field and Laboratory Testing of Soils for Foundations and Embankments' presents a paper by Foirbart that is most relevant to Irish soil conditions and within this paper the following equations were included:

Granular Soils: DPH N_{100} x 2.5 = SPT N value

Cohesive Soils: C_u = 15 x DPH N_{100} + 30 kN/m^2

These equations present a relationship between the probe N_{100} value and the SPT N value for granular soils and the undrained shear strength of cohesive soils.

The dynamic probe logs are presented in Appendix 3.

3.4. Soakaway Tests

At 4 No. locations, soakaway tests were completed and logged by SIL geotechnical engineer. BRE Special Digest 365 stipulates that the pit should be filled three times and that the final cycle is used to provide the infiltration rate. The time taken for the water level to fall from 75% volume to 25% volume is required to calculate the rate of infiltration. However, if the water level does not fall at a steady rate, then the test is deemed to have failed and the area is unsuitable for storm water drainage.

The soakaway test results are presented in Appendix 4.

3.5. Slit Trenches

Slit trenching was completed at 2 No. locations by hand digging with machine assistance where possible. The trenches were completed to check the location and depth of any services on site. The trenches were logged and the services photographed before they were backfilled with the arisings.

The slit trench logs and photographs are presented in Appendix 5.

3.6. California Bearing Ratio Tests

39 No. CBR tests were scheduled but 3 No. tests were cancelled upon instruction from the Archaeologist so 36 No. undisturbed cylindrical mould samples were taken to complete California Bearing Ratio tests in the laboratory. The results facilitate the designing of the access roads and associated areas. These tests were completed to BS1377: 1990: Part 4, Clause 7 'Determination of California Bearing Ratio'.

The results are presented in Appendix 6.

3.7. Road Cores

Pavement cores were completed at 2 No. locations where a 100mm diameter core was recovered from the existing roadways. The core was immediately logged and photographed on site upon extraction. The details of the pavement cores and photographs are presented in Appendix 7.

3.8. Surveying

Following completion of all the fieldworks, a survey of the exploratory hole locations was completed using a GeoMax GPS Rover. The data is supplied along with site plans in Appendix 11.

4. Laboratory Testing

4.1. Geotechnical Testing

Geotechnical laboratory testing was completed on representative soil samples in accordance with BS 1377 (1990). Testing included:

- 50 No. Moisture contents
- 50 No. Atterberg limits
- 50 No. Particle size gradings with 15 No. hydrometers
- 30 No. remoulded CBR tests
- 30 No Moisture Condition Value tests (MCV)
- 30 No. Compaction – MCV Calibration tests

- 50 No. pH, sulphate and chloride content

Specialist geotechnical testing is currently being completed by BHP Laboratories Limited and consisted of the following:

- 10 No. lime stabilization analysis suites

The geotechnical laboratory test results are presented in Appendix 8 and the lime stabilization results will be presented in Appendix 9 upon completion.

4.2. Environmental Testing

Environmental testing was completed by ALS Environmental Ltd. and this allows for a Waste Classification report to be produced. The environmental testing consists of the following:

- 80 No. Suite I analysis
- 15 No. loss on ignition tests

The environmental test results are presented in Appendix 10 with the Waste Classification report in Appendix 11.

5. Ground Conditions

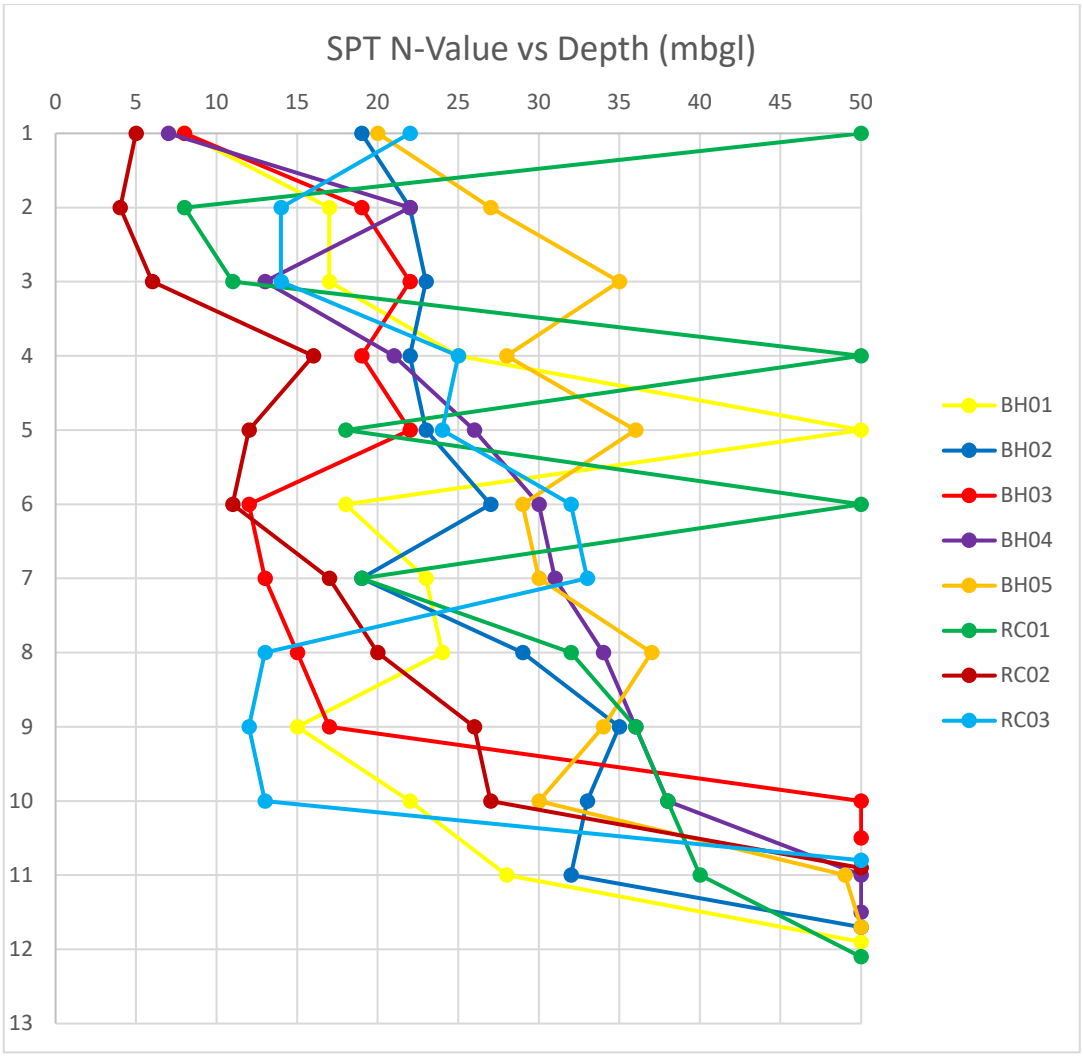
5.1. MADE GROUND

The site recorded man-made ground conditions at 12 No. trial pit locations to a maximum depth of 2.50mbgl at TP062. to 1.30m at BH04. The material is predominately brown and grey brown sandy slightly gravelly silty clay with anthropogenic material of plastic, scrap metal, rags and red brick fragments recorded

5.2. Natural Overburden

The site ground conditions vary completely across the site with all soil types recorded, cohesive CLAY and SILT dominant soils and granular SAND and GRAVEL soils recorded at various locations.

The SPT N-values have a wide range of 5 to 22 at 1.00mbgl, 4 to 27 at 2.00mbgl and 6 to 35 at 3.00mbgl. The wide range continues as the graph overleaf shows.



5.3. Groundwater

Groundwater details during the fieldworks are noted on the borehole and trial pit logs in Appendix 1 and 2. No groundwater was recorded in the borehole and trial pits during the fieldworks.

6. Recommendations and Conclusions

Please note the following caveats:

The recommendations given, and opinions expressed in this report are based on the findings as detailed in the exploratory hole records. Where an opinion is expressed on the material between the exploratory hole locations or below the final level of excavation, this is for guidance only and no liability can be accepted for its accuracy. No responsibility can be accepted for adjacent unexpected conditions that have not been revealed by the exploratory holes. It is further recommended that all bearing surfaces when excavated should be inspected by a suitably qualified Engineer to verify the information given in this report.

Excavated surfaces in clay strata should be kept dry to avoid softening prior to foundation placement. Foundations should always be taken to a minimum depth of 0.50mBGL to avoid the effects of frost action and possible seasonal shrinkage/swelling.

If it is intended that on-site materials are to be used as fill, then the necessary laboratory testing should be specified by the Client to confirm the suitability. Also, relevant lab testing should be specified where stability of side slopes to excavations is a concern, or where contamination may be an issue.

6.1. Shallow Foundations

For cohesive soils, a correlation proposed by Stroud and Butler between SPT N-values and plasticity indices can be used to calculate the undrained shear strength. Dependent on the plasticity index at each site, the Stroud and Butler correlation is C_u=4 to 6N. With the low plasticity indexes anticipated for the soils, the correlation chosen is C_u=6N. The C_u value can then be used to calculate the ultimate bearing capacity, which is the total loading that the soil could withstand but then a factor of safety is used to ensure that failure of the soils does not occur. A factor of safety of 3 has been chosen for this site.

The table overleaf shows the SPT N-value, C_u, the ultimate bearing capacity and finally, the allowable bearing capacities for the top 3m at each borehole location. The C_u, ultimate bearing capacity and allowable bearing capacities are in kN/m^2.

Depth	BH01				BH02				BH03			
	SPT	Cu	UBC	ABC	SPT	Cu	UBC	ABC	SPT	Cu	UBC	ABC
1.00m	8	48	263	**88**	19	-	-	**190**	8	-	-	**80**
2.00m	17	-	-	**170**	22	-	-	**220**	19	-	-	**190**
3.00m	17	-	-	**170**	23	-	-	**230**	22	-	-	**220**

Depth	BH04				BH05				RC01			
	SPT	Cu	UBC	ABC	SPT	Cu	UBC	ABC	SPT	Cu	UBC	ABC
1.00m	7	42	232	**77**	20	120	630	**210**	-[1]	-	-	**-**
2.00m	22	-	-	**220**	27	-	-	**270**	8	-	-	**80**
3.00m	13	-	-	**130**	35	-	-	**350**	11	-	-	**110**

Depth	RC02				RC03			
	SPT	Cu	UBC	ABC	SPT	Cu	UBC	ABC
1.00m	5	30	171	**57**	22	132	691	**230**
2.00m	4	24	158	**53**	14	84	464	**155**
3.00m	6	36	238	**79**	14	84	482	**161**

-[1]: Refusal

For analysis of bearing capacities from the dynamic probes, the N_{100} values are used as follows in cohesive soils. The undrained shear strength (C_u) is calculated using the N_{100} value as per the equation in Section 3.1. This can then be used in calculations to work out the ultimate bearing capacity (ULS) and when a factor of safety of 3 is applied, the allowable bearing capacity (ABC) can be provided.

In granular soils, the N_{100} value is used to correlate the SPT N-value. The SPT N-value can then be used to calculate the allowable bearing capacity, as per Terzaghi and Peck, using the correlation of SPT N-value x 10 = ABC.

The table below shows the allowable bearing capacities for N_{100} values 1 to 10 at 1.00mbgl and these can be used provide the allowable bearing capacity at each probe location. If the blow counts at 1.00mbgl are too low for the proposed loadings then the foundations should be lowered until the soil becomes stiffer or denser.

N_{100} Value	Cohesive Soils			Granular Soils	
	C_u	ULS	ABC	SPT N-value	ABC
1	45	245	82	2.5	25
2	60	324	110	5	50
3	75	400	135	7.5	75
4	90	480	160	10	100
5	105	555	185	12.5	125
6	120	630	210	15	150
7	135	705	235	17.5	175
8	150	780	260	20	200
9	165	855	285	22.5	225
10	180	930	310	250	250

If these values are too low then the remaining options for founding structures on site are raft or piled foundations. The raft foundations spread the loads over large areas and the soils are levelled and compacted at the formation level. This can help to identify any local soft spots that should be removed and replaced with engineered fill. Stone is then placed onto the founding soil in 200mm layers and compacted by a suitable roller and the process repeated until the level for the concrete is achieved. Further insitu testing in the form of CBR may be completed at this point to ensure that the gravel is compacted.

Alternatively, piled foundations may be considered and a specialist pile designer should be consulted to provide the most cost-effective method of founding the structures according to the proposed design.

It would be recommended that all founding strata be inspected by a suitably qualified Engineer prior to pouring the foundations and additional insitu testing completed if required to confirm the soils are suitable for the final foundation design.

The following assumptions were made as part of these analyses. If any of these assumptions are not in accordance with detailed design or observations made during construction these recommendations should be re-evaluated.

- Foundations are to be constructed on a level formation of uniform material type.
- All man-made or filled material is to be removed prior to construction.
- The bulk unit weight of the material in this stratum has a minimum density of 19kN/m^3.
- Based on groundwater observations this analysis assumes the groundwater will not influence the construction or performance of these foundations.
- All bearing capacity calculations allow for 25mm settlement.

The trial pits terminated at multiple locations due to the pit wall instability. It would be recommended that all excavations should be checked immediately and then regular inspection of temporary excavations should be completed during construction to ensure that all slopes are stable. Temporary support should be used on any excavation that will be left open for an extended period.

6.2. Groundwater

The caveats below relating to interpretation of groundwater levels should be noted:
There is always considerable uncertainty as to the likely rates of water ingress into excavations in clayey soil sites due to the possibility of localised unforeseen sand and gravel lenses acting as permeable conduits for unknown volumes of water.

Furthermore, water levels noted on the borehole and trial pit logs do not generally give an accurate indication of the actual groundwater conditions as the borehole or trial pit is rarely left open for sufficient time for the water level to reach equilibrium.

Also, during boring procedures, a permeable stratum may have been sealed off by the borehole casing, or water may have been added to aid drilling. Therefore, an extended period of groundwater monitoring using any constructed standpipes is required to provide more accurate information regarding groundwater conditions. Finally, groundwater levels vary with time of year, rainfall and nearby construction.

Pumping tests would be required to determine likely seepage rates and persistence into excavations taken below the groundwater level. Deep trial pits also aid estimation of seepage rates.

As discussed previously, no groundwater was recorded during the fieldworks. There is always considerable uncertainty as to the likely rates of water ingress into excavations in cohesive soil sites due to the possibility of localised unforeseen sand and gravel lenses acting as permeable conduits for unknown volumes of water. Based on this information at the exploratory hole locations to date, it is considered likely that any shallow ingress (less than 2.00mbgl) into excavations of the CLAY will be slow to medium. If granular soils are encountered in shallow excavations, then the possibility of water ingressing into an excavation increase.

If groundwater is encountered during excavations then mechanical pumps will be required to remove the groundwater from sumps. Sumps should be carefully located and constructed to ensure that groundwater is efficiently removed from excavations and trenches.

6.3. Soakaway Test

The soakaway tests at IT01 and IT02 were unable provide a f-value as 1000l of water was added but the water level did not rise sufficiently to create a head of water to time the fall rate. These were completed in granular soils as was IT04 which did create a head of water and a f-value of **6.01×10^{-5}m/s.**

IT03 failed the specification as the water level did not fall sufficiently enough to complete the test. The BRE Digest stipulates that the pit should half empty within 24hrs, and extrapolation indicates this condition would not be satisfied. The tests were terminated at the end of the first (of a possible three) fill/empty cycle since further testing would give even slower fall rates due to increased soil saturation.

6.4. Pavement Design

The CBR test results from the insitu samples in Appendix 6 indicate CBR values ranging from 6.0% to 19.3%. The remoulded samples in the laboratory testing recorded values of 3.7% to 16.8%.

The insitu samples were recovered at depths ranging from 0.50mbgl to 1.00mbgl and the remoulded samples were from samples collected between 0.50mbgl and 2.00mbgl. Inspection of the formation strata should be completed prior to construction of the pavement and once the exact formation levels are finalised then additional in-situ testing could be completed to assist with the detailed pavement design.

6.5. Contamination

Environmental testing was completed on eighty samples from the investigation and the results are presented in Appendix 10. For material to be removed from site, Suite I testing was carried out to determine if the material is hazardous or non-hazardous and then the leachate results

were compared with the published waste acceptance limits of BS EN 12457-2 to determine whether the material on the site could be accepted as 'inert material' by an Irish landfill.

The Waste Classification report created using HazWasteOnline™ software shows that the material tested can mainly be classified as non-hazardous material. One samples did exceed the Total Petroleum Hydrocarbon limits of detection but these are not in the liquid phase and therefore, HP3 can be discounted.

Following this analysis of the solid test results, the leachate disposal suite results showed that the determinands generally remained within the Inert waste thresholds. TP091 recorded a pH value of 5.99 which is below the non-hazardous waste landfill threshold but this is only 0.01 below the threshold and the remaining 79 samples plus the 50 No. pH samples from the geotechnical testing are above 6 and therefore should be of no issue to the chosen landfill, who should be consulted to confirm that the soils are acceptable.

Overall, eighty samples were tested for analysis but it cannot be discounted that any localised contamination may have been missed. Any MADE GROUND excavated on site should be stockpiled separately to natural soils to avoid any potential cross contamination of the soils. Additional testing of these soils may be requested by the individual landfill before acceptance and a testing regime designed by an environmental engineer would be recommended to satisfy the landfill.

6.6. Aggressive Ground Conditions

The chemical test results in Appendix 8 indicate a general pH value between 7.59 and 8.26, which is close to neutral and below the level of 9, therefore no special precautions are required.

The maximum value obtained for water soluble sulphate was 131mg/l as SO_3. The BRE Special Digest 1:2005 – '*Concrete in Aggressive Ground*' guidelines require SO_4 values and after conversion ($SO_4 = SO_3 \times 1.2$), the maximum value of 157mg/l shows Class 1 conditions and no special precautions are required.

6.7. Radon Gas

The Environmental Protection Agency (EPA) has recently updated the Radon gas exposure map and this is available to view on the EPA website. This shows the possible exposure to radon gas with the bedrock geology, subsoil geology, soil permeability and aquifer type analysed to produce the map. The map overleaf shows that the site falls within the medium level of 1 in 10 homes have a possibility of high radon exposure. Measures should be taken in the form of radon protection barriers to protect from radon exposure in the new structure.

EPA map identifying possible Radon exposure.

https://gis.epa.ie/EPAMaps/Radon?&lid=EPA:RadonRiskMapofIreland

Appendix 1

Cable Percussive Borehole Logs

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Contract No: 6100	**Cable Percussion Borehole Log**				Borehole No: **BH01**
Contract:	Blessington - Phase 3	Easting:	697791.863	Date Started:	11/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715192.801	Date Completed:	12/04/2023
Client:	Cairn Homes Ltd	Elevation:	209.87	Drilled By:	D. Clarke
Engineer:	DBFL	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
0.5	0.40	TOPSOIL.		209.5	209.47					
1.0		Firm brown slightly sandy gravelly silty CLAY with low cobble content.		209.0		1.00	B	DC01		
1.5	1.30			208.5	208.57	1.00	C	N=8 (1,2/2,1,2,3)		
2.0		Medium dense grey brown slightly silty sandy GRAVEL with low cobble content.		208.0		2.00	B	DC02		
2.5				207.5		2.00	C	N=17 (2,4/5,4,4,4)		
3.0				207.0		3.00	B	DC03		
3.5				206.5		3.00	C	N=17 (3,3/3,4,5,5)		
4.0				206.0		4.00	B	DC04		
4.5				205.5		4.00	C	N=25 (3,6/6,7,6,6)		
5.0				205.0		5.00	B	DC05		
5.5				204.5		5.00	C	N=50 (3,10/50 for 230mm)		
6.0				204.0		6.00	B	DC06		
6.5				203.5		6.00	C	N=18 (3,4/4,5,5,4)		
7.0				203.0		7.00	B	DC07		
7.5	7.70			202.5	202.17	7.00	C	N=23 (5,5/6,6,5,6)		
8.0		Stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.		202.0		8.00	B	DC08		
8.5				201.5		8.00	C	N=24 (4,4/5,6,7,6)		
9.0				201.0		9.00	B	DC09		
9.5				200.5		9.00	C	N=15 (2,2/3,4,4,4)		
10.0				200.0		10.00	B	DC10		
10.5				199.5		10.00	C	N=22 (4,5/5,6,6,5)		
11.0				199.0		11.00	B	DC11		
11.5	11.70			198.5	198.17	11.00	C	N=28 (5,6/6,7,7,8)		
12.0	11.90	Obstruction - possible boulders.		198.0	197.97	11.90	C	50 (25 for 5mm/50 for 5mm)		
12.5		End of Borehole at 11.90m		197.5						
				197.0						

Chiselling:

From:	To:	Time:
1.60	1.80	01:00
5.40	5.50	01:00
11.70	11.90	01:30

Water Strikes:

Strike:	Rose:	Depth Sealed

Water Details:

Date:	Hole Depth:	Water Depth:
11/04	7.40	Dry
12/04	7.40	Dry
12/04	11.90	Dry

Installation:

From:	To:	Pipe:
0.00	2.00	Solid
2.00	9.50	Slotted

Backfill:

From:	To:	Type:
0.00	1.00	Bentonite
1.00	11.90	Gravel

Remarks:

Borehole terminated due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6100	**Cable Percussion Borehole Log**			Borehole No: **BH02**
Contract:	Blessington - Phase 3	Easting:	697916.155	Date Started: 08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715147.268	Date Completed: 09/05/2023
Client:	Cairn Homes Ltd	Elevation:	206.01	Drilled By: D. Clarke
Engineer:	DBFL	Borehole Diameter:	200mm	Status: FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
0.5	0.50	Brown slightly silty sandy GRAVEL with low cobble content.		205.5	205.51					
		Medium dense grey brown slightly silty sandy GRAVEL.				1.00	B	DC75		
1.0				205.0		1.00	C	N=19 (4,4/4,5,5,5)		
1.5				204.5						
2.0				204.0		2.00	B	DC76		
						2.00	C	N=22 (3,4/5,5,6,6)		
2.5				203.5						
3.0				203.0		3.00	B	DC77		
						3.00	C	N=23 (4,6/6,5,6,6)		
3.5				202.5						
4.0				202.0		4.00	B	DC78		
						4.00	C	N=22 (5,5/4,5,6,7)		
4.5				201.5						
5.0				201.0		5.00	B	DC79		
						5.00	C	N=23 (3,5/6,5,5,7)		
5.5				200.5						
6.0	5.90	Medium dense brown slightly silty sandy GRAVEL with low cobble content.		200.0	200.11	6.00	B	DC80		
						6.00	C	N=27 (5,5/7,7,7,6)		
6.5				199.5						
7.0	7.10	Medium dense becoming dense brown silty slightly gravelly SAND.		199.0	198.91	7.00	B	DC81		
						7.00	C	N=19 (4,4/5,5,4,5)		
7.5				198.5						
8.0				198.0		8.00	B	DC82		
						8.00	C	N=29 (5,7/7,7,8,7)		
8.5				197.5						
9.0				197.0		9.00	B	DC83		
						9.00	C	N=35 (4,6/8,8,9,10)		
9.5				196.5						
10.0				196.0		10.00	B	DC84		
						10.00	C	N=33 (7,8/7,8,9,9)		
10.5				195.5						
11.0				195.0		11.00	B	DC85		
						11.00	C	N=32 (8,8/8,7,8,9)		
11.5	11.60			194.5	194.41					
	11.70	Obstruction - possible boulders.			194.31	11.70	C	50 (25 for 5mm/50 for 5mm)		
12.0		End of Borehole at 11.70m		194.0						
12.5				193.5						

Chiselling: From:	To:	Time:	Water Strikes: Strike:	Rose:	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
0.90	1.00	01:00				08/05	7.60	Dry	0.00	2.00	Solid	0.00	1.00	Bentonite	Borehole terminated due to obstruction.
11.60	11.70	01:30				09/05	7.60	Dry	2.00	8.00	Slotted	1.00	11.70	Gravel	
						09/05	11.70	Dry							

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6100	**Cable Percussion Borehole Log**			Borehole No: **BH03**
Contract:	Blessington - Phase 3	Easting:	697821.428	Date Started: 18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715370.555	Date Completed: 19/04/2023
Client:	Cairn Homes Ltd	Elevation:	214.45	Drilled By: D. Clarke
Engineer:	DBFL	Borehole Diameter:	200mm	Status: FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.30	TOPSOIL.			214.15					
		Brown slightly sandy gravelly silty CLAY with low cobble content.		214.0						
	1.10			213.5	213.35	1.00	B	DC23		
		Loose grey brown slightly silty slightly sandy GRAVEL.				1.00	C	N=8 (1,1/1,2,3,2)		
	1.50			213.0	212.95					
		Medium dense grey brown sandy GRAVEL with high cobble content.		212.5		2.00	B	DC24		
						2.00	C	N=19 (3,3/4,5,5,5)		
				212.0						
				211.5		3.00	B	DC25		
	3.30				211.15	3.00	C	N=22 (3,4/5,6,6,5)		
		Stiff brown slightly sandy gravelly silty CLAY with low cobble content.		211.0						
				210.5		4.00	B	DC26		
						4.00	C	N=19 (3,4/4,5,6,4)		
				210.0						
				209.5		5.00	B	DC27		
						5.00	C	N=22 (4,5/6,5,5,6)		
	5.50			209.0	208.95					
		Medium dense brown silty slightly gravelly SAND.								
				208.5		6.00	B	DC28		
						6.00	C	N=12 (2,2/3,3,3,3)		
				208.0						
				207.5		7.00	B	DC29		
	7.20				207.25	7.00	C	N=13 (3,3/4,3,3,3)		
		Stiff brown sandy slightly gravelly clayey SILT.		207.0						
				206.5		8.00	B	DC30		
						8.00	C	N=15 (2,2/3,4,4,4)		
				206.0						
				205.5		9.00	B	DC31		
						9.00	C	N=17 (3,3/3,4,5,5)		
				205.0						
				204.5		10.00	B	DC32		
	10.30				204.15	10.00	C	50 (3,4/50 for 125mm)		
	10.50	Obstruction - possible boulders.		204.0	203.95	10.50	C	50 (25 for 5mm/50 for 5mm)		
		End of Borehole at 10.50m								
				203.5						
				203.0						
				202.5						
				202.0						

Chiselling:

From:	To:	Time:
1.70	1.80	01:00
10.30	10.50	01:30

Water Strikes:

Strike:	Rose:	Depth Sealed

Water Details:

Date:	Hole Depth:	Water Depth:
18/04	7.50	Dry
19/04	7.50	Dry
19/04	10.50	Dry

Installation:

From:	To:	Pipe:
0.00	2.00	Solid
2.00	9.00	Slotted

Backfill:

From:	To:	Type:
0.00	1.00	Bentonite
1.00	10.50	Gravel

Remarks:

Borehole terminated due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6100	**Cable Percussion Borehole Log**				Borehole No: **BH04**
Contract:	Blessington - Phase 3	Easting:	697608.376	Date Started:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715294.786	Date Completed:	17/04/2023
Client:	Cairn Homes Ltd	Elevation:	213.79	Drilled By:	D. Clarke
Engineer:	DBFL	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			213.69					
0.5		Soft brown slightly sandy gravelly silty CLAY with high cobble content.		213.5						
1.0				213.0		1.00	B	DC12		
	1.30				212.49	1.00	C	N=7 (1,1/1,2,2,2)		
1.5		Medium dense grey brown slightly silty sandy GRAVEL with low cobble content.		212.5						
2.0				212.0		2.00	B	DC13		
2.5				211.5		2.00	C	N=22 (4,4/5,6,6,5)		
3.0				211.0		3.00	B	DC14		
	3.20			210.5	210.59	3.00	C	N=13 (4,5/4,3,3,3)		
3.5		Firm brown grey slightly sandy slightly gravelly clayey SILT.								
	3.70			210.0	210.09					
4.0		Stiff brown slightly sandy slightly gravelly silty CLAY with low cobble content.				4.00	B	DC15		
4.5				209.5		4.00	C	N=21 (5,6/6,5,5,5)		
5.0				209.0		5.00	B	DC16		
5.5				208.5		5.00	C	N=26 (4,5/7,6,6,7)		
6.0				208.0		6.00	B	DC17		
				207.5		6.00	C	N=30 (7,8/8,8,7,7)		
6.5	6.50	Very stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.			207.29					
7.0				207.0		7.00	B	DC18		
7.5				206.5		7.00	C	N=31 (7,7/8,8,8,7)		
8.0				206.0		8.00	B	DC19		
8.5				205.5		8.00	C	N=34 (7,8/8,9,9,8)		
9.0				205.0		9.00	B	DC20		
9.5				204.5		9.00	C	N=36 (6,8/9,10,10,7)		
10.0				204.0		10.00	B	DC21		
10.5				203.5		10.00	C	N=38 (8,8/9,8,10,11)		
11.0				203.0		11.00	B	DC22		
	11.30			202.5	202.49	11.00	C	50 (9,10/50 for 135mm)		
11.5	11.50	Obstruction - possible boulders.			202.29	11.50	C	50 (25 for 5mm/50 for 5mm)		
		End of Borehole at 11.50m		202.0						
12.0				201.5						
12.5				201.0						

Chiselling:

From:	To:	Time:
0.60	0.80	01:00
7.80	7.90	01:00
11.30	11.50	01:30

Water Strikes:

Strike:	Rose:	Depth Sealed

Water Details:

Date:	Hole Depth:	Water Depth:
14/04	6.90	Dry
17/04	6.90	Dry
17/04	11.50	Dry

Installation:

From:	To:	Pipe:
0.00	2.00	Solid
2.00	10.00	Slotted

Backfill:

From:	To:	Type:
0.00	1.00	Bentonite
1.00	11.50	Gravel

Remarks:

Borehole terminated due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6100	**Cable Percussion Borehole Log**		Borehole No: **BH05**
Contract:	Blessington - Phase 3	Easting: 697783.106	Date Started: 20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing: 715470.469	Date Completed: 21/04/2023
Client:	Cairn Homes Ltd	Elevation: 213.88	Drilled By: D. Clarke
Engineer:	DBFL	Borehole Diameter: 200mm	Status: FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
0	0.10	TOPSOIL.		213.5	213.78					
0.5		Stiff brown sandy slightly gravelly silty CLAY with high cobble content.								
1.0				213.0		1.00	B	DC33		
1.5	1.50			212.5	212.38	1.00	C	N=20 (7,7/6,6,4,4)		
2.0		Medium dense becoming dense brown grey slightly silty very sandy GRAVEL with high cobble content.		212.0		2.00	B	DC34		
2.5				211.5		2.00	C	N=27 (5,6/5,7,7,8)		
3.0				211.0		3.00	B	DC35		
3.5				210.5		3.00	C	N=35 (8,8/9,8,9,9)		
4.0				210.0		4.00	B	DC36		
4.5				209.5		4.00	C	N=28 (6,7/7,7,6,8)		
5.0				209.0		5.00	B	DC37		
5.5				208.5		5.00	C	N=36 (7,7/8,9,9,10)		
6.0				208.0		6.00	B	DC38		
6.5				207.5		6.00	C	N=29 (5,6/7,7,8,7)		
7.0				207.0		7.00	B	DC39		
7.5				206.5		7.00	C	N=30 (5,6/5,8,8,9)		
8.0				206.0		8.00	B	DC40		
8.5				205.5		8.00	C	N=37 (8,8/9,10,9,9)		
9.0				205.0		9.00	B	DC41		
9.5				204.5		9.00	C	N=34 (6,7/8,8,9,9)		
10.0				204.0		10.00	B	DC42		
10.5				203.5		10.00	C	N=30 (7,7/7,8,7,8)		
11.0				203.0		11.00	B	DC43		
11.5	11.50			202.5	202.38	11.00	C	N=49 (9,10/11,11,13,14)		
	11.70	Obstruction - possible boulders.			202.18	11.70	C	50 (25 for 5mm/50 for 5mm)		
12.0		End of Borehole at 11.70m		202.0						
12.5				201.5						
				201.0						

Chiselling: From:	To:	Time:	Water Strikes: Strike:	Rose:	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
0.80	1.00	01:00				20/04	8.50	Dry	0.00	2.00	Solid	0.00	1.00	Bentonite	Borehole terminated due to obstruction.
11.50	11.70	01:30				21/04	8.50	Dry	2.00	9.50	Slotted	1.00	11.70	Gravel	
						21/04	11.70	Dry							

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6100	**Cable Percussion Borehole Log**			Borehole No: **RC01**
Contract:	Blessington - Phase 3	Easting:	697888.861	Date Started: 24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715265.487	Date Completed: 25/04/2023
Client:	Cairn Homes Ltd	Elevation:	209.79	Drilled By: D. Clarke
Engineer:	DBFL	Borehole Diameter:	200mm	Status: FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			209.69					
0.5		Stiff brown slightly sandy gravelly silty CLAY with high cobble content.		209.5						
1.0				209.0		1.00	B	DC44		
1.5	1.50			208.5	208.29	1.00	C	50 (1,3/50 for 160mm)		
2.0		Medium dense grey brown silty very sandy GRAVEL with high cobble content.		208.0		2.00	B	DC45		
2.5				207.5		2.00	C	N=8 (2,3/2,2,2,2)		
3.0				207.0		3.00	B	DC46		
3.5				206.5		3.00	C	N=11 (2,2/2,3,3,3)		
4.0				206.0		4.00	B	DC47		
4.5				205.5		4.00	C	50 (25 for 90mm/50 for 25mm)		
5.0				205.0		5.00	B	DC48		
5.5				204.5		5.00	C	N=18 (3,4/4,5,5,4)		
6.0				204.0		6.00	B	DC49		
6.5				203.5		6.00	C	50 (5,5/50 for 200mm)		
7.0	6.80	Medium dense grey brown slightly silty sandy GRAVEL with low cobble content.		203.0	202.99	7.00	B	DC50		
7.5				202.5		7.00	C	N=19 (3,3/4,5,5,5)		
8.0	7.80	Very stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.		202.0	201.99	8.00	B	DC51		
8.5				201.5		8.00	C	N=32 (6,7/8,8,8,8)		
9.0				201.0		9.00	B	DC52		
9.5				200.5		9.00	C	N=36 (8,8/9,8,9,10)		
10.0				200.0		10.00	B	DC53		
10.5				199.5		10.00	C	N=38 (9,8/9,9,10,10)		
11.0				199.0		11.00	B	DC54		
11.5				198.5		11.00	C	N=40 (10,11/9,10,10,11)		
12.0	11.90			198.0	197.89					
	12.10	Obstruction - possible boulders. End of Borehole at 12.10m		197.5	197.69	12.10	C	50 (25 for 5mm/50 for 10mm)		
12.5				197.0						

Chiselling:

From:	To:	Time:
1.30	1.50	01:00
4.10	4.30	01:00
11.90	12.10	01:30

Water Strikes:

Strike:	Rose:	Depth Sealed

Water Details:

Date:	Hole Depth:	Water Depth:
24/04	6.20	Dry
25/04	6.20	Dry
25/04	12.10	Dry

Installation:

From:	To:	Pipe:
0.00	2.00	Solid
2.00	8.00	Slotted

Backfill:

From:	To:	Type:
0.00	1.00	Bentonite
1.00	12.10	Gravel

Remarks:

Borehole terminated due to obstruction.

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6100	**Cable Percussion Borehole Log**				Borehole No: **RC02**
Contract:	Blessington - Phase 3	Easting:	697715.870	Date Started:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715257.813	Date Completed:	27/04/2023
Client:	Cairn Homes Ltd	Elevation:	212.03	Drilled By:	D. Clarke
Engineer:	DBFL	Borehole Diameter:	200mm	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			211.93					
0.5		Soft brown slightly sandy gravelly silty CLAY with high cobble content.		211.5						
1.0				211.0		1.00	B	DC55		
1.5				210.5		1.00	C	N=5 (1,1/1,1,1,2)		
2.0				210.0		2.00	B	DC56		
2.5				209.5		2.00	C	N=4 (1,0/1,0,1,2)		
3.0				209.0		3.00	B	DC57		
3.5				208.5		3.00	C	N=6 (1,2/2,1,2,1)		
4.0	4.10			208.0	207.93	4.00	B	DC58		
4.5		Firm brown grey slightly sandy slightly gravelly silty CLAY with low cobble content.		207.5		4.00	C	N=16 (1,1/2,4,5,5)		
5.0				207.0		5.00	B	DC59		
5.5				206.5		5.00	C	N=12 (1,2/2,3,3,4)		
6.0				206.0		6.00	B	DC60		
6.5	6.40			205.5	205.63	6.00	C	N=11 (2,2/2,3,3,3)		
7.0		Stiff brown slightly sandy slightly gravelly silty CLAY with low cobble content.		205.0		7.00	B	DC61		
7.5				204.5		7.00	C	N=17 (3,3/3,4,5,5)		
8.0				204.0		8.00	B	DC62		
8.5				203.5		8.00	C	N=20 (4,4/4,5,5,6)		
9.0				203.0		9.00	B	DC63		
9.5				202.5		9.00	C	N=26 (5,5/5,6,7,8)		
10.0				202.0		10.00	B	DC64		
10.5				201.5		10.00	C	N=27 (5,5/5,7,7,8)		
	10.70				201.33					
11.0	10.90	Obstruction - possible boulders.		201.0	201.13	10.90	C	50 (25 for 5mm/50 for 10mm)		
11.5		End of Borehole at 10.90m		200.5						
12.0				200.0						
12.5				199.5						

Chiselling: From:	To:	Time:	Water Strikes: Strike:	Rose:	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
10.70	10.90	01:30				26/04	6.00	Dry	0.00	2.00	Solid	0.00	1.00	Bentonite	Borehole terminated due to obstruction.
						27/04	6.00	Dry	2.00	8.00	Slotted	1.00	10.90	Gravel	
						27/04	10.90	Dry							

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Contract No: 6100	**Cable Percussion Borehole Log**			Borehole No: **RC03**
Contract:	Blessington - Phase 3	Easting:	697695.673	Date Started: 28/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715388.955	Date Completed: 02/05/2023
Client:	Cairn Homes Ltd	Elevation:	215.38	Drilled By: D. Clarke
Engineer:	DBFL	Borehole Diameter:	200mm	Status: FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD) Scale	Depth	Samples and Insitu Tests Depth	Type	Result	Water Strike	Backfill
	0.10	TOPSOIL.			215.28					
0.5		Brown grey silty sandy GRAVEL with high cobble content.		215.0						
	0.70				214.68					
1.0		Stiff brown slightly sandy gravelly silty CLAY with high cobble content.		214.5		1.00	B	DC65		
						1.00	C	N=22 (3,4/6,6,5,5)		
1.5	1.40			214.0	213.98					
		Firm becoming stiff brown slightly sandy slightly gravelly silty CLAY with low cobble content.								
2.0				213.5		2.00	B	DC66		
						2.00	C	N=14 (2,2/3,3,4,4)		
2.5				213.0						
3.0				212.5		3.00	B	DC67		
						3.00	C	N=14 (2,3/3,4,3,4)		
3.5				212.0						
4.0				211.5		4.00	B	DC68		
						4.00	C	N=25 (4,6/6,7,7,5)		
4.5				211.0						
5.0				210.5		5.00	B	DC69		
						5.00	C	N=24 (4,5/5,6,6,7)		
5.5	5.50			210.0	209.88					
		Stiff brown slightly sandy slightly gravelly silty CLAY with high cobble content.		209.5		6.00	B	DC70		
6.0	6.20				209.18	6.00	C	N=32 (3,6/8,9,8,7)		
		Dense grey brown silty sandy GRAVEL with low cobble content.		209.0						
6.5				208.5		7.00	B	DC71		
						7.00	C	N=33 (7,7/8,8,9,8)		
7.0				208.0						
	7.50				207.88					
7.5	7.80	Brown sandy slightly gravelly clayey SILT with low cobble content.		207.5	207.58					
		Firm brown sandy slightly gravelly clayey SILT.				8.00	B	DC72		
8.0						8.00	C	N=13 (4,4/3,3,3,4)		
8.5				207.0						
9.0				206.5		9.00	B	DC73		
						9.00	C	N=12 (3,2/3,3,3,3)		
9.5				206.0						
10.0				205.5		10.00	B	DC74		
						10.00	C	N=13 (3,4/3,3,3,4)		
10.5	10.60			205.0	204.78					
	10.80	Obstruction - possible boulders.			204.58	10.80	C	50 (25 for 5mm/50 for 10mm)		
11.0		End of Borehole at 10.80m		204.5						
11.5				204.0						
12.0				203.5						
				203.0						
12.5										
				202.5						

Chiselling: From:	To:	Time:	Water Strikes: Strike:	Rose:	Depth Sealed	Water Details: Date:	Hole Depth:	Water Depth:	Installation: From:	To:	Pipe:	Backfill: From:	To:	Type:	Remarks:
10.60	10.80	01:30				28/04	6.50	Dry	0.00	2.00	Solid	0.00	1.00	Bentonite	Borehole terminated due to obstruction.
						02/05	6.50	Dry	2.00	8.00	Slotted	1.00	10.80	Gravel	
						02/05	10.80	Dry							

Legend:
B: Bulk
D: Disturbed
U: Undisturbed
ES: Environmental
W: Water
C: Cone SPT
S: Split spoon SPT

Appendix 2
Trial Pit Logs and Photographs

DRAFT

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP001**
Contract:	Blessington - Phase 3	Easting:	697736.892	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715227.107	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.73	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		210.5	210.53				
0.5				210.0					
	0.90				209.83				
1.0		Firm light grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.				1.00	B*	MK73	
	1.20	Firm light grey brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		209.5	209.53				
	1.40	Firm light grey brown slightly sandy silty CLAY with occasional sandy bands. Sand is fine to coarse.			209.33				
1.5						1.50	B	MK74	
				209.0					
	1.80	Light grey silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.93				
2.0						2.00	B*	MK75	
				208.5					
2.5	2.50	**Pit terminated at 2.50m**			208.23				
				208.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP002**
Contract:	Blessington - Phase 3	Easting:	697721.740	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715215.036	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.25	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.50 x 0.50 x 1.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Soft light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		210.0	210.05				
0.5	0.60	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		209.5	209.65				
1.0						1.00	B	MK68	
				209.0					
1.5	1.70	Terminated due to pit wall collapse. **Pit terminated at 1.70m**		208.5	208.55				
2.0				208.0					
2.5				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP003**
Contract:	Blessington - Phase 3	Easting:	697717.119	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715231.241	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.11	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.0					
	0.20	Soft light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.91				
0.5	0.50	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		210.5	210.61	0.50	ES	MK65	
1.0				210.0		1.00	B*	MK66	
	1.40	Firm light brown slightly sandy slightly gravelly clayey SILT with frequent silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			209.71				
1.5				209.5					
2.0				209.0		2.00	B	MK67	
2.5	2.50	**Pit terminated at 2.50m**		208.5	208.61				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP004**
Contract:	Blessington - Phase 3	Easting:	697741.076	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715254.326	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.66	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.5	211.46				
	0.20	Firm brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.				0.50 0.50	B ES	MK52 MK53	
0.5				211.0					
1.0						1.00	B*	MK54	
	1.10	Grey silty slightly gravelly fine to coarse SAND with occasional silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.		210.5	210.56				
1.5						1.50	B	MK55	
				210.0					
2.0									
				209.5					
2.5	2.50	**Pit terminated at 2.50m**			209.16				
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP005**
Contract:	Blessington - Phase 3	Easting:	697735.015	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715248.513	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.57	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.5					
	0.20	Soft light brown sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.37				
	0.40	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.17				
0.5				211.0		0.50 0.50	B ES	MK58 MK59	
	0.90	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.67				
1.0				210.5					
1.5						1.50	B	MK60	
	1.60	Firm grey brown sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		210.0	209.97				
	1.90	Light brown silty slightly gravelly fine to coarse SAND with frequent silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			209.67				
2.0						2.00	B*	MK61	
	2.10	Terminated due to pit wall collapse. **Pit terminated at 2.10m**		209.5	209.47				
2.5				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP006**
Contract:	Blessington - Phase 3	Easting:	697700.688	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715228.277	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.26	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.40	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		211.0	211.06				
0.5									
	0.80	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		210.5	210.46				
1.0									
				210.0					
1.5						1.50	B	MK196	
				209.5					
	1.90	Firm grey brown sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			209.36				
2.0						2.00	B*	MK197	
				209.0					
	2.30	Grey bown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.96				
	2.40	Terminated due to pit wall collapse.			208.86				
2.5		**Pit terminated at 2.40m**							
				208.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP007**
Contract:	Blessington - Phase 3	Easting:	697711.770	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715247.481	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.71	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Soft light grey slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		211.5	211.51				
0.5	0.50	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.21	0.50 0.50	B ES	MK69 MK70	
				211.0					
	0.80	Firm light brown slightly sandy slightly gravelly clayey SILT with occasional silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.91				
1.0						1.00	B	MK71	
				210.5					
	1.40	Firm light brown slightly sandy slightly gravelly clayey SILT with frequent silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.31				
1.5									
				210.0					
2.0						2.00	B*	MK72	
				209.5					
2.5	2.50	**Pit terminated at 2.50m**			209.21				
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP008**
Contract:	Blessington - Phase 3	Easting:	697679.119	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715211.080	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.02	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.0					
	0.20	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.82				
0.5				210.5					
	0.60	Firm grey brown sandy slightly gravelly silty CLAY with medium cobble content and frequent gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.42				
1.0				210.0		1.00	B	MK119	
	1.10	Firm grey brown sandy slightly gravelly clayey SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			209.92				
1.5				209.5		1.50	B*	MK120	
	1.80	Grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			209.22				
2.0				209.0		2.00	B	MK121	
2.5	2.50	**Pit terminated at 2.50m**		208.5	208.52				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP009**
Contract:	Blessington - Phase 3	Easting:	697707.654	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715195.623	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.38	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.70 x 0.50 x 0.95	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			209.18				
0.5				209.0					
						0.80	B	MK04	
	0.90			208.5	208.48				
	0.95	Firm light brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.43				
1.0		Pit terminated upon instruction from Archeologist.							
		Pit terminated at 0.95m							
				208.0					
1.5									
				207.5					
2.0									
				207.0					
2.5									
				206.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Archeologist's instruction.	Pit walls stable.	Dry	Pit terminated upon instruction from Archeologist.	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP010**
Contract:	Blessington - Phase 3	Easting:	697699.412	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715213.945	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.51	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.70 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.31				
0.5	0.50	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		210.0	210.01	0.50	ES	MK05	
1.0				209.5		1.00	B	MK06	
	1.20	Firm grey brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			209.31				
1.5				209.0		1.50	B*	MK07	
	1.70	Grey brown slightly silty slightly gravelly fine to coarse SAND with frequent gravel laminas. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.81				
2.0				208.5		2.00	B*	MK08	
2.5	2.50	**Pit terminated at 2.50m**		208.0	208.01				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP011**
Contract:	Blessington - Phase 3	Easting:	697762.703	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715258.948	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.12	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 1.90	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.0					
	0.20	Firm light brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.92				
0.5	0.50	Grey brown silty slightly gravelly fine to coarse SAND with medium cobble content. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.62				
				210.5					
1.0						1.00	B	MK108	
				210.0					
1.5									
				209.5					
	1.90	Terminated due to pit wall collapse. **Pit terminated at 1.90m**			209.22				
2.0									
				209.0					
2.5									
				208.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP012**
Contract:	Blessington - Phase 3	Easting:	697742.848	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715186.724	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.31	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.50 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.11				
0.5				209.0		0.50	ES	MK01	
				208.5					
1.0						1.00	B	MK02	
	1.20	Light grey brown silty slightly gravelly fine to coarse SAND interbedded with silty sandy GRAVEL. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.11				
1.5				208.0					
				207.5					
2.0						2.00	B*	MK03	
				207.0					
2.5	2.50	**Pit terminated at 2.50m**			206.81				
				206.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP013**
Contract:	Blessington - Phase 3	Easting:	697759.387	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715203.484	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.94	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			209.74				
0.5				209.5		0.50 0.50	B ES	MK35 MK36	
1.0				209.0		1.00	B	MK37	
				208.5					
1.5	1.50	Brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.44				
				208.0					
2.0						2.00	B*	MK38	
	2.10	Firm grey sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			207.84				
				207.5					
2.5	2.50	**Pit terminated at 2.50m**			207.44				
				207.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP014**
Contract:	Blessington - Phase 3	Easting:	697717.902	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715187.136	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.28	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 0.60	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		209.0	209.08				
0.5	0.50	Firm light brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.78	0.50	B	MK361	
	0.60	Pit terminated upon instruction from Archeologist.			208.68	0.50	ES	MK362	
		Pit terminated at 0.60m		208.5					
1.0									
				208.0					
1.5									
				207.5					
2.0									
				207.0					
2.5									
				206.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Archeologist's instruction.	Pit walls stable.	Dry	Pit terminated upon instruction from Archeologist.	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP017**
Contract:	Blessington - Phase 3	Easting:	697778.884	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715241.353	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.35	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm brown slightly sandy gravelly silty CLAY with high cobble content and frequent gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.15				
0.5				210.0					
				209.5					
1.0						1.00	B	MK41	
	1.10	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.25				
				209.0					
1.5						1.50	B*	MK42	
	1.80	Firm grey sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		208.5	208.55				
2.0						2.00	B	MK43	
	2.20	Firm grey slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.15				
				208.0					
2.5	2.50	**Pit terminated at 2.50m**			207.85				
				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Minor pit wall collapse during excavation.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP018**
Contract:	Blessington - Phase 3	Easting:	697758.820	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715239.002	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.99	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.79				
0.5				210.5					
	0.90	Grey silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.09				
1.0				210.0					
1.5				209.5		1.50	B	MK50	
2.0				209.0					
2.5	2.50	**Pit terminated at 2.50m**		208.5	208.49	2.50	B*	MK51	

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP019**
Contract:	Blessington - Phase 3	Easting:	697775.495	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715220.333	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.43	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.23				
0.5				210.0		0.50 0.50	B ES	MK44 MK45	
	0.90	Grey slightly silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.53				
1.0				209.5		1.00	B	MK46	
1.5				209.0					
2.0				208.5					
	2.10	Firm grey sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.33				
						2.30	B*	MK47	
2.5				208.0					
	2.50	**Pit terminated at 2.50m**			207.93				
				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Minor pit wall collapse during excavation.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP020**
Contract:	Blessington - Phase 3	Easting:	697739.741	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715206.832	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.82	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		209.5	209.62				
0.5	0.50	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content and frequent gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		209.0	209.32				
1.0						1.00	B	MK62	
	1.10	Firm grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		208.5	208.72				
1.5						1.50	B*	MK63	
	1.90	Firm light brown sandy slightly gravelly clayey SILT with some silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		208.0	207.92				
2.0						2.00	B*	MK64	
				207.5					
2.5	2.50	**Pit terminated at 2.50m**			207.32				
				207.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP021**
Contract:	Blessington - Phase 3	Easting:	697758.494	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715225.711	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.60	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.50 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		210.5					
	0.20	Firm brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.40				
0.5				210.0					
1.0						1.00	B	MK48	
				209.5					
1.5									
	1.60	Grey silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		209.0	209.00				
2.0						2.00	B	MK49	
				208.5					
2.5	2.50	**Pit terminated at 2.50m**			208.10				
				208.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP022**
Contract:	Blessington - Phase 3	Easting:	697672.316	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715230.455	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.83	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.63				
	0.40	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		211.5	211.43				
0.5									
				211.0					
1.0						1.00	B	MK09	
	1.30	Light grey slightly silty gravelly fine to coarse SAND with frequent gravel laminas. Gravel is fine to coarse, angular to subrounded of varied lithologies.		210.5	210.53				
1.5									
				210.0					
2.0						2.00	B	MK10	
				209.5					
2.5	2.50	**Pit terminated at 2.50m**			209.33				
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP023**
Contract:	Blessington - Phase 3	Easting:	697636.003	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715235.987	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.94	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
	0.10	TOPSOIL.			211.84				
		Soft grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		211.5					
0.5	0.60	Grey brown slightly silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.34				
				211.0					
1.0						1.00	B	MK29	
	1.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.64				
1.5				210.5					
				210.0					
2.0						2.00	B*	MK30	
	2.20	Grey slightly silty gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			209.74				
				209.5					
2.5	2.50	**Pit terminated at 2.50m**			209.44				
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP024**
Contract:	Blessington - Phase 3	Easting:	697784.060	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715326.868	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.13	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.0					
	0.20	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.93				
0.5	0.60	Firm grey brown sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.53				
1.0						1.00	B	MK275	
				212.0					
1.5									
				211.5					
2.0									
				211.0					
	2.30	Firm grey brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.83				
2.5	2.50	**Pit terminated at 2.50m**			210.63	2.50	B*	MK276	
				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP025**
Contract:	Blessington - Phase 3	Easting:	697649.832	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715257.677	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.85	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.65				
0.5				212.5		0.50	ES	MK193	
	0.80	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.05				
1.0				212.0					
				211.5		1.50	B	MK194	
1.5									
				211.0					
2.0	2.00	Firm grey brown sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.85	2.10	B*	MK195	
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			210.65				
2.5				210.5					
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP026**
Contract:	Blessington - Phase 3	Easting:	697657.228	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715225.084	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.77	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		211.5	211.57				
0.5									
				211.0					
1.0						1.00	B	MK33	
				210.5					
	1.30	Grey brown slightly silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.47				
1.5	1.50	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.27				
				210.0		1.70	B*	MK34	
2.0									
	2.10	Firm grey sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			209.67				
	2.20	Terminated due to pit wall collapse.			209.57				
		Pit terminated at 2.20m		209.5					
2.5									
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP027**
Contract:	Blessington - Phase 3	Easting:	697649.724	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715237.756	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.08	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.30	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		212.0					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.88				
0.5				211.5					
1.0						1.00	B	MK31	
				211.0					
	1.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.78				
1.5				210.5					
2.0						2.00	B*	MK32	
				210.0					
	2.30	Terminated due to pit wall collapse. **Pit terminated at 2.30m**			209.78				
2.5				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP028**
Contract:	Blessington - Phase 3	Easting:	697786.191	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715308.371	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.96	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 1.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.30				211.66				
0.5		Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		211.5					
	0.80				211.16				
1.0		Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		211.0		1.00	B	MK277	
	1.20	Terminated due to pit wall collapse. **Pit terminated at 1.20m**			210.76				
1.5				210.5					
2.0				210.0					
2.5				209.5					
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP029**
Contract:	Blessington - Phase 3	Easting:	697804.394	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715328.120	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.14	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.00 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.0					
	0.20				212.94				
		Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.				0.50	B	MK289	
0.5						0.50	ES	MK290	
				212.5					
	0.90				212.24				
		Firm light grey brown sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.				1.00	B*	MK291	
1.0				212.0					
1.5				211.5					
	1.80				211.34				
		Firm grey brown slightly sandy silty CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.				2.00	B	MK292	
2.0				211.0					
2.5	2.50	**Pit terminated at 2.50m**			210.64				
				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP030**
Contract:	Blessington - Phase 3	Easting:	697767.781	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715290.683	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.52	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.5					
	0.20	Firm grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.32				
0.5				211.0					
	0.90	Firm light brown sandy slightly gravelly silty CLAY with low cobble content with frequent sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.62				
1.0				210.5		1.00	B	MK106	
1.5				210.0					
	1.60	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			209.92				
2.0				209.5		2.00	B*	MK107	
2.5	2.50	**Pit terminated at 2.50m**		209.0	209.02				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP031**
Contract:	Blessington - Phase 3	Easting:	697766.991	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715311.189	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.42	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.22				
0.5				212.0		0.50 0.50	B ES	MK102 MK103	
	0.70	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content and frequent gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.72				
1.0				211.5					
	1.40	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		211.0	211.02	1.50	B	MK104	
1.5									
	1.70	Firm grey brown sandy slightly gravelly clayey SILT with frequent silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.72				
	1.90	Grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		210.5	210.52				
2.0						2.00	B*	MK105	
				210.0					
2.5	2.50	**Pit terminated at 2.50m**			209.92				
				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP032**
Contract:	Blessington - Phase 3	Easting:	697750.595	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715299.084	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.41	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.			212.21				
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content and frequent gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.0					
0.5									
				211.5		1.00	B	MK100	
1.0									
	1.30	Light grey brown silty slightly gravelly fine to coarse SAND with some silt laminas. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.11				
1.5				211.0					
				210.5		2.00	B*	MK101	
2.0									
				210.0					
2.5	2.50	**Pit terminated at 2.50m**			209.91				
				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP033**
Contract:	Blessington - Phase 3	Easting:	697671.044	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715256.632	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.81	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 1.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.61				
0.5									
	0.70	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.0	212.11				
1.0									
				211.5		1.50	B	MK80	
1.5									
	1.70	Terminated due to pit wall collapse. **Pit terminated at 1.70m**			211.11				
				211.0					
2.0									
				210.5					
2.5									
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP034**
Contract:	Blessington - Phase 3	Easting:	697726.389	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715285.350	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.73	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.53				
0.5						0.50 0.50	B ES	MK97 MK98	
				212.0					
	0.90	Light grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.83				
1.0									
				211.5					
1.5						1.50	B	MK99	
				211.0					
2.0									
				210.5					
2.5	2.50	**Pit terminated at 2.50m**			210.23				
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP035**
Contract:	Blessington - Phase 3	Easting:	697708.565	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715282.040	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.84	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.60 x 0.50 x 2.50	Status:	FINAL

Level (mbgl)		Stratum Description	Legend	Level (mOD)		Samples / Field Tests			Water Strike
Scale:	Depth			Scale:	Depth:	Depth	Type	Result	
		TOPSOIL.							
	0.20	Firm light brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.64				
0.5									
	0.70	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.0	212.14				
1.0									
				211.5		1.50	B	MK94	
1.5									
	1.70	Firm brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		211.0	211.14				
2.0						2.00	B*	MK95	
	2.30	Brown silty slightly gravelly fine to coarse SAND with some silt laminas. Gravel is fine to coarse, angular to subrounded of varied lithologies.		210.5	210.54				
2.5	2.50	**Pit terminated at 2.50m**			210.34	2.50	B*	MK96	
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP036**
Contract:	Blessington - Phase 3	Easting:	697726.655	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715263.956	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.12	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.60 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		212.0					
	0.20	Firm brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.92				
0.5				211.5					
	0.80	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content and frequent silt bands. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.32				
1.0						1.00	B*	MK56	
				211.0					
	1.40	Grey brown silty slightly gravelly fine to coarse SAND with frequent silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.72				
1.5						1.50	B	MK57	
				210.5					
2.0									
				210.0					
2.5	2.50	**Pit terminated at 2.50m**			209.62				
				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP037**
Contract:	Blessington - Phase 3	Easting:	697691.164	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715250.439	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.22	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.0	212.02				
0.5						0.50	B	MK76	
						0.50	ES	MK77	
	0.60	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.62				
				211.5					
1.0						1.00	B*	MK78	
				211.0					
	1.30	Light grey silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.92				
1.5						1.50	B	MK79	
				210.5					
2.0									
				210.0					
2.5	2.50	**Pit terminated at 2.50m**			209.72				
				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP038**
Contract:	Blessington - Phase 3	Easting:	697708.990	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715267.681	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.38	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.18				
0.5				212.0		0.50	B	MK81	
						0.50	ES	MK82	
	0.60	Firm grey brown sandy slightly gravelly silty CLAY with medium cobble content and frequent silty gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.78				
				211.5					
1.0						1.00	B	MK83	
	1.20	Firm light grey brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.18				
				211.0					
1.5									
				210.5					
2.0						2.00	B*	MK84	
				210.0					
2.5	2.50	**Pit terminated at 2.50m**			209.88				
				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP039**
Contract:	Blessington - Phase 3	Easting:	697683.705	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715292.386	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.56	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5					
	0.20	Firm brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.36				
0.5				213.0		0.50 0.50	B ES	MK109 MK110	
	0.60	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content with occasional gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.96				
1.0				212.5		1.00	B*	MK111	
	1.30	Firm grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.26				
1.5				212.0		1.50	B	MK112	
	1.80	Terminated due to pit wall collapse. **Pit terminated at 1.80m**			211.76				
2.0				211.5					
2.5				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP040**
Contract:	Blessington - Phase 3	Easting:	697668.107	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715277.269	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.38	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 1.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.18				
0.5				213.0		0.50	ES	MK11	
	0.70	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.68				
1.0				212.5		1.00	B	MK12	
				212.0					
1.5						1.50	B*	MK13	
	1.70	Terminated due to pit wall collapse. **Pit terminated at 1.70m**			211.68				
2.0				211.5					
				211.0					
2.5									
				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP041**
Contract:	Blessington - Phase 3	Easting:	697688.281	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715274.670	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.97	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.77				
0.5	0.50	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.47				
1.0				212.0		1.00	B	MK85	
	1.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.77				
1.5				211.5		1.50	B*	MK86	
	1.90	Firm light grey slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.07				
2.0				211.0		2.00	B*	MK87	
	2.10	Terminated due to pit wall collapse. **Pit terminated at 2.10m**			210.87				
2.5				210.5					
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP042**
Contract:	Blessington - Phase 3	Easting:	697710.758	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715301.440	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.07	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.0					
	0.20	Firm light brown sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.87				
0.5				212.5		0.50 0.50	B ES	MK90 MK91	
1.0				212.0					
1.5				211.5		1.50	B	MK92	
2.0				211.0					
	2.10	Firm light grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.97				
						2.40	B*	MK93	
2.5	2.50	**Pit terminated at 2.50m**			210.57				
				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP043**
Contract:	Blessington - Phase 3	Easting:	697691.308	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715299.303	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.67	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 1.60	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5					
	0.20	Firm light brown sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.47				
0.5	0.50	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content and frequent gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.0	213.17				
1.0						1.00	B	MK88	
				212.5					
	1.30	Firm light grey slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			212.37				
1.5						1.50	B*	MK89	
	1.60	Terminated due to pit wall collapse. **Pit terminated at 1.60m**		212.0	212.07				
2.0									
				211.5					
2.5									
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP044**
Contract:	Blessington - Phase 3	Easting:	697772.142	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715202.020	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.02	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.40	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		210.0					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.82				
0.5				209.5		0.50 0.50	B ES	MK419 MK420	
	0.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 500mm diameter).			209.22				
1.0				209.0		1.00	B*	MK421	
1.5				208.5					
	1.90	Firm grey brown sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.12				
2.0				208.0		2.00	B*	MK422	
	2.10	Firm light grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			207.92				
	2.40	Terminated due to pit wall collapse. **Pit terminated at 2.40m**			207.62	2.40	B*	MK423	
2.5				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP045**
Contract:	Blessington - Phase 3	Easting:	697884.752	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715272.933	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.97	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.40	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.77				
0.5				209.5		0.50 0.50	B ES	MK381 MK382	
	0.70	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.27				
1.0				209.0		1.00	B*	MK383	
1.5				208.5					
2.0				208.0		2.00	B*	MK384	
	2.40	Terminated due to pit wall collapse. **Pit terminated at 2.40m**			207.57				
2.5				207.5					
				207.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP046**
Contract:	Blessington - Phase 3	Easting:	697845.096	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715288.455	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.07	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.50 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.0					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.87				
0.5				210.5		0.50 0.50	B ES	MK393 MK394	
	0.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.17				
1.0				210.0					
1.5				209.5		1.50	B	MK395	
2.0				209.0					
	2.10	Terminated due to pit wall collapse. **Pit terminated at 2.10m**			208.97				
2.5				208.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP047**
Contract:	Blessington - Phase 3	Easting:	697878.504	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715242.737	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	208.88	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.30	Grey brown silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		208.5	208.58	0.50 0.50	B ES	MK320 MK321	
0.5									
	0.80	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		208.0	208.08				
1.0						1.00	B*	MK322	
	1.40	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		207.5	207.48				
1.5						1.50	B	MK323	
	1.80	Terminated due to pit wall collapse. **Pit terminated at 1.80m**		207.0	207.08				
2.0									
				206.5					
2.5									
				206.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP048**
Contract:	Blessington - Phase 3	Easting:	697902.486	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715255.117	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.56	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		209.5					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.36				
0.5				209.0		0.50 0.50	B ES	MK376 MK377	
	0.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 250mm diameter).			208.76				
1.0				208.5		1.00	B*	MK378	
	1.20	Light grey silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.36				
1.5				208.0		1.50	B*	MK379	
2.0				207.5					
	2.20	Firm light grey brown slightly sandy gravelly silty CLAY with medium cobble content and some silt bands. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			207.36				
2.5	2.50	**Pit terminated at 2.50m**		207.0	207.06	2.50	B*	MK380	

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP049**
Contract:	Blessington - Phase 3	Easting:	697865.695	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715218.680	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	208.94	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			208.74				
0.5				208.5		0.80	B*	MK318	
				208.0					
1.0	1.00	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			207.94				
1.5				207.5		1.50	B*	MK319	
	1.80	Terminated due to pit wall collapse. **Pit terminated at 1.80m**			207.14				
2.0				207.0					
2.5				206.5					
				206.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP050**
Contract:	Blessington - Phase 3	Easting:	697859.040	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715247.534	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.02	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.50 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		209.0					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			208.82				
0.5				208.5		0.50 0.50	B ES	MK331 MK332	
1.0				208.0					
	1.10	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			207.92				
1.5				207.5		1.50	B*	MK333	
2.0				207.0					
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			206.82				
2.5				206.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP051**
Contract:	Blessington - Phase 3	Easting:	697819.753	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715262.805	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.23	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		210.0	210.03				
0.5						0.50	B	MK336	
	0.60				209.63	0.50	ES	MK337	
		Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		209.5					
1.0									
				209.0					
1.5						1.50	B*	MK338	
				208.5					
2.0									
	2.20	Terminated due to pit wall collapse.			208.03				
		Pit terminated at 2.20m		208.0					
2.5									
				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP052**
Contract:	Blessington - Phase 3	Easting:	697865.323	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715292.511	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.81	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.61				
0.5				210.5		0.50 0.50	B ES	MK390 MK391	
1.0				210.0		1.00	B*	MK392	
1.5				209.5					
	1.80	Terminated due to pit wall collapse. **Pit terminated at 1.80m**		209.0	209.01				
2.0				208.5					
2.5				208.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP079**
Contract:	Blessington - Phase 3	Easting:	697825.115	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715296.953	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.67	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.5					
	0.30	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.37				
0.5				211.0					
	0.80	Light grey brown silty slightly gravelly fine to coarse SAND with some silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.87				
1.0						1.00	B	MK282	
				210.5					
1.5									
				210.0					
2.0									
				209.5					
2.5	2.50	**Pit terminated at 2.50m**			209.17	2.50	B*	MK283	
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP053**
Contract:	Blessington - Phase 3	Easting:	697880.518	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715253.554	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	208.97	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.77				
0.5				208.5					
1.0				208.0		1.00	B	MK324	
	1.40	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			207.57				
1.5				207.5					
2.0				207.0		2.00	B*	MK325	
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			206.77				
2.5				206.5					
				206.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP054**
Contract:	Blessington - Phase 3	Easting:	697863.806	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715270.216	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.15	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		209.0					
	0.20	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.95				
0.5				208.5		0.50 0.50	B ES	MK385 MK386	
	0.80	Firm grey brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			208.35				
1.0						1.00	B	MK387	
	1.10	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content and occasional gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		208.0	208.05				
1.5				207.5					
2.0						2.00	B*	MK388	
	2.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		207.0	206.95				
2.5	2.50	**Pit terminated at 2.50m**			206.65	2.50	B*	MK389	
				206.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP055**
Contract:	Blessington - Phase 3	Easting:	697881.892	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715160.437	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	206.61	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		206.5					
	0.20				206.41				
		Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.							
0.5				206.0		0.50	B	MK438	
						0.50	ES	MK439	
1.0				205.5					
1.5	1.50				205.11				
		Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		205.0					
2.0						2.00	B*	MK440	
				204.5					
2.5	2.50	**Pit terminated at 2.50m**			204.11				
				204.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP056**
Contract:	Blessington - Phase 3	Easting:	698019.763	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715224.250	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	208.86	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content and occasional sandy gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.66				
0.5				208.5		0.50 0.50	B ES	MK427 MK428	
1.0				208.0					
	1.10	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			207.76				
	1.40	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		207.5	207.46				
1.5						1.50	B	MK429	
	1.80	Terminated due to pit wall collapse. **Pit terminated at 1.80m**		207.0	207.06				
2.0									
				206.5					
2.5									
				206.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP057**
Contract:	Blessington - Phase 3	Easting:	697991.780	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715253.458	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.18	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		210.0					
	0.20				209.98				
		Firm light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.							
	0.40				209.78				
0.5		Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		209.5		0.50 0.50	B ES	MK424 MK425	
1.0				209.0					
1.5				208.5		1.50	B	MK426	
2.0				208.0					
2.5	2.50	**Pit terminated at 2.50m**		207.5	207.68				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP058**
Contract:	Blessington - Phase 3	Easting:	697991.764	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715224.914	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	208.76	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		208.5					
	0.40	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.36				
0.5									
	0.70	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content and frequent sand laminas. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		208.0	208.06				
1.0						1.00	B*	MK430	
				207.5					
1.5									
				207.0					
2.0						2.00	B*	MK431	
	2.10	Terminated due to pit wall collapse.			206.66				
		Pit terminated at 2.10m		206.5					
2.5									
				206.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP060**
Contract:	Blessington - Phase 3	Easting:	697849.739	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715308.117	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.22	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		212.0	212.02				
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.				0.50 0.50	B ES	MK396 MK397	
0.5				211.5					
	0.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.32				
1.0				211.0					
1.5						1.50	B*	MK398	
				210.5					
2.0	2.00	Firm light grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.22				
	2.20	Terminated due to pit wall collapse.		210.0	210.02	2.20	B*	MK399	
		Pit terminated at 2.20m							
2.5				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP061**
Contract:	Blessington - Phase 3	Easting:	697896.858	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715156.559	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	206.66	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		206.5					
	0.20	MADE GROUND: brown silty sandy gravel with low cobble content and some plastic fragments.			206.46				
0.5				206.0		0.50 0.50	B ES	MK441 MK442	
	0.90	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			205.76				
1.0				205.5		1.00	B*	MK443	
	1.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			205.36				
1.5				205.0					
2.0				204.5		2.00	B*	MK444	
2.5	2.50	**Pit terminated at 2.50m**		204.0	204.16				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP062**
Contract:	Blessington - Phase 3	Easting:	697877.278	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715137.170	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	205.88	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.50 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	MADE GROUND: grey brown slightly sandy gravelly silty clay with medium cobble content and some plastic fragments.			205.68				
0.5				205.5		0.50 0.50	B ES	MK445 MK446	
	0.70	MADE GROUND: grey brown slightly sandy gravelly silty clay with medium cobble content.			205.18				
1.0				205.0		1.00	B*	MK447	
	1.20	MADE GROUND: light grey slightly sandy slightly gravelly silty clay with low cobble content and frequent silty sand laminas.			204.68				
1.5				204.5		1.50	B	MK448	
				204.0					
2.0	2.00	MADE GROUND: dark brown sandy slightly gravelly silty clay with low cobble content and some animal bone fragments.			203.88				
				203.5					
2.5	2.50	**Pit terminated at 2.50m**			203.38	2.50	B*	MK449	
				203.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP063**
Contract:	Blessington - Phase 3	Easting:	697927.076	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715166.430	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	207.50	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
	0.10	TOPSOIL.			207.40				
		Light grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.							
	0.40	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			207.10				
0.5				207.0		0.50 0.50	B ES	MK435 MK436	
	0.70	Firm grey brown slightly sandy silty CLAY. Sand is fine to coarse.			206.80				
1.0				206.5					
1.5				206.0		1.50	B	MK437	
2.0				205.5					
	2.40	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 400mm diameter).			205.10				
2.5	2.50	**Pit terminated at 2.50m**		205.0	205.00				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP064**
Contract:	Blessington - Phase 3	Easting:	697950.745	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715151.250	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	206.07	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.80 x 0.50 x 1.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		206.0					
	0.10	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			205.97				
0.5				205.5		0.50 0.50	B ES	MK432 MK433	
1.0				205.0					
1.5				204.5		1.50	B*	MK434	
	1.70	Terminated due to pit wall collapse. **Pit terminated at 1.70m**			204.37				
2.0				204.0					
2.5				203.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP065**
Contract:	Blessington - Phase 3	Easting:	697909.595	Date:	27/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715138.419	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	205.66	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		MADE GROUND: brown sandy slightly gravelly silty clay with some plastic and timber fragments.		205.5					
	0.30	Dark brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			205.36				
0.5				205.0		0.50 0.50	B ES	MK450 MK451	
	0.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			204.76				
1.0						1.00	B*	MK452	
				204.5					
1.5									
				204.0					
	1.80	Firm grey brown sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			203.86				
2.0						2.00	B	MK453	
				203.5					
2.5	2.50	**Pit terminated at 2.50m**			203.16				
				203.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP066**
Contract:	Blessington - Phase 3	Easting:	697855.167	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715227.904	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.06	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		209.0					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.86				
0.5				208.5		0.50 0.50	B ES	MK326 MK327	
1.0				208.0					
1.5	1.50	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		207.5	207.56				
2.0	2.00	Terminated due to pit wall collapse. **Pit terminated at 2.00m**		207.0	207.06	2.00	B*	MK328	
2.5				206.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP067**
Contract:	Blessington - Phase 3	Easting:	697785.369	Date:	14/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715206.436	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.23	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.10	Brown slightly silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.13				
0.5				210.0					
	0.70	Grey silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.53				
1.0				209.5		1.00	B	MK39	
				209.0					
1.5									
				208.5					
2.0						2.00	B*	MK40	
				208.0					
2.5	2.50	**Pit terminated at 2.50m**			207.73				
				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP068**
Contract:	Blessington - Phase 3	Easting:	697849.226	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715195.729	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	208.87	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.40	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			208.67				
0.5				208.5		0.50	B	MK309	
						0.50	ES	MK310	
	0.90	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		208.0	207.97				
1.0									
				207.5					
1.5						1.50	B	MK311	
	1.70	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			207.17				
				207.0					
2.0						2.00	B*	MK312	
				206.5					
	2.40	Terminated due to pit wall collapse. **Pit terminated at 2.40m**			206.47				
2.5									
				206.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP069**
Contract:	Blessington - Phase 3	Easting:	697802.012	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715223.585	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.21	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		210.0	210.01				
0.5						0.50 0.50	B ES	MK369 MK370	
	0.70	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		209.5	209.51				
1.0						1.00	B*	MK371	
				209.0					
	1.40	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			208.81				
1.5						1.50	B*	MK372	
				208.5					
2.0									
				208.0					
	2.40	Terminated due to pit wall collapse. **Pit terminated at 2.40m**			207.81				
2.5									
				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP070**
Contract:	Blessington - Phase 3	Easting:	697803.821	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715198.626	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.96	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.30	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.66				
0.5				209.5		0.50 0.50	B ES	MK366 MK367	
1.0				209.0					
	1.20	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			208.76				
1.5				208.5		1.50	B*	MK368	
	1.80	Terminated due to pit wall collapse. **Pit terminated at 1.80m**			208.16				
2.0				208.0					
2.5				207.5					
				207.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP071**
Contract:	Blessington - Phase 3	Easting:	697817.345	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715244.482	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.86	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.00 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.30	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.56				
0.5				209.5		0.50 0.50	B ES	MK373 MK374	
1.0				209.0					
	1.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			208.56				
1.5				208.5		1.50	B*	MK375	
2.0				208.0					
				207.5					
2.5	2.50	**Pit terminated at 2.50m**			207.36				
				207.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP072**
Contract:	Blessington - Phase 3	Easting:	697827.734	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715199.793	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.84	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.40	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.64				
0.5				209.5		0.50	B*	MK313	
	0.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.04				
1.0				209.0					
				208.5					
1.5						1.50	B	MK314	
				208.0					
2.0									
				207.5					
	2.40	Terminated due to pit wall collapse. **Pit terminated at 2.40m**			207.44				
2.5									
				207.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP074**
Contract:	Blessington - Phase 3	Easting:	697842.578	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715215.461	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.13	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 1.90	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		209.0					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			208.93				
0.5				208.5		0.50 0.50	B ES	MK315 MK316	
	0.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			208.23				
1.0				208.0					
1.5						1.50	B*	MK317	
				207.5					
	1.90	Terminated due to pit wall collapse. **Pit terminated at 1.90m**			207.23				
2.0				207.0					
2.5				206.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP077**
Contract:	Blessington - Phase 3	Easting:	697823.552	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715214.735	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.82	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 1.90	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			209.62				
0.5	0.50	Firm light brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		209.5	209.32	0.50 0.50	B ES	MK363 MK364	
	0.90	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		209.0	208.92				
1.0									
				208.5					
1.5						1.50	B*	MK365	
				208.0					
	1.90	Terminated due to pit wall collapse. **Pit terminated at 1.90m**			207.92				
2.0									
				207.5					
2.5									
				207.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP078**
Contract:	Blessington - Phase 3	Easting:	697842.708	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715315.970	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.52	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		212.5					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.32				
0.5				212.0		0.50 0.50	B ES	MK347 MK348	
1.0				211.5					
	1.10	Light grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.42				
1.5				211.0		1.50	B*	MK349	
	1.80	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.72				
2.0				210.5		2.00	B*	MK350	
	2.40	Terminated due to pit wall collapse. **Pit terminated at 2.40m**			210.12				
2.5				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP080**
Contract:	Blessington - Phase 3	Easting:	697823.899	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715282.472	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.98	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.30	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.78				
	0.40	Grey silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.58				
0.5				210.5		0.50 0.50	B ES	MK342 MK343	
1.0				210.0					
1.5				209.5		1.50	B*	MK344	
2.0				209.0					
	2.30	Terminated due to pit wall collapse. **Pit terminated at 2.30m**			208.68				
2.5				208.5					
				208.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP081**
Contract:	Blessington - Phase 3	Easting:	697837.874	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715244.467	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	209.78	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.58				
0.5				209.5		0.60	B*	MK329	
	0.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		209.0	208.98				
1.0									
				208.5					
1.5						1.50	B*	MK330	
				208.0					
2.0									
				207.5					
	2.40	Terminated due to pit wall collapse. **Pit terminated at 2.40m**			207.38				
2.5									
				207.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP082**
Contract:	Blessington - Phase 3	Easting:	697839.807	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715266.609	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.16	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 1.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
0		TOPSOIL.		210.0					
	0.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.86				
0.5				209.5					
1.0						1.00 1.00	B ES	MK334 MK335	
	1.20	Terminated due to pit wall collapse. **Pit terminated at 1.20m**		209.0	208.96				
1.5				208.5					
2.0				208.0					
2.5				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP085**
Contract:	Blessington - Phase 3	Easting:	697803.273	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715299.920	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.33	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.13				
0.5				211.0		0.50 0.50	B ES	MK278 MK279	
1.0				210.5					
	1.40	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		210.0	209.93				
1.5									
2.0				209.5		2.00	B	MK280	
	2.10	Light grey brown silty slightly gravelly fine to coarse SAND with some silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			209.23				
				209.0					
2.5	2.50	**Pit terminated at 2.50m**			208.83	2.50	B*	MK281	
				208.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP086**
Contract:	Blessington - Phase 3	Easting:	697806.688	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715278.865	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.33	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		210.0	210.13				
0.5									
	0.70	Firm light grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		209.5	209.63				
1.0						1.00	B*	MK339	
	1.10	Light grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		209.0	209.23				
1.5						1.50	B	MK340	
	1.90	Firm grey brown slightly sandy slightly gravelly clayey SILT with occasional silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		208.5	208.43				
2.0						2.00	B	MK341	
				208.0					
2.5	2.50	**Pit terminated at 2.50m**			207.83				
				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP087**
Contract:	Blessington - Phase 3	Easting:	697822.509	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715320.026	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.50	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 1.90	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.30				
0.5				212.0		0.50	B	MK284	
						0.50	ES	MK285	
	0.80	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content and bands of sandy gravelly silty clay. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.70				
1.0				211.5					
1.5				211.0		1.50	B	MK286	
	1.90	Terminated due to pit wall collapse. **Pit terminated at 1.90m**			210.60				
2.0				210.5					
2.5				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP088**
Contract:	Blessington - Phase 3	Easting:	697707.237	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715392.418	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.42	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		215.0					
0.5	0.50	Firm grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			214.92				
				214.5					
1.0						1.00	B*	MK174	
	1.30	Firm light brown slightly sandy slightly gravelly silty CLAY with occasional silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			214.12				
1.5				214.0		1.50	B	MK175	
				213.5					
2.0									
	2.20	Firm grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.22				
				213.0					
2.5	2.50	**Pit terminated at 2.50m**			212.92	2.50	B*	MK176	
				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP089**
Contract:	Blessington - Phase 3	Easting:	697695.008	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715372.436	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.96	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			214.76				
0.5				214.5					
	0.60	Light brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.36				
1.0				214.0		1.00	B*	MK167	
	1.20	Light grey silty slightly gravelly fine to coarse SAND with occasional silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			213.76				
1.5				213.5		1.50	B	MK168	
2.0				213.0					
	2.20	Firm light grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.76				
2.5				212.5					
	2.50	**Pit terminated at 2.50m**			212.46	2.50	B*	MK169	
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP090**
Contract:	Blessington - Phase 3	Easting:	697724.843	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715409.866	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.17	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
	0.10	TOPSOIL.		215.0	215.07				
		Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.							
	0.40	Firm light brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			214.77				
0.5	0.60	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		214.5	214.57				
	0.90	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.27				
1.0				214.0					
1.5						1.50	B	MK181	
	1.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		213.5	213.57				
	1.80	Light grey bown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			213.37				
2.0						2.00	B*	MK182	
				213.0					
2.5	2.50	**Pit terminated at 2.50m**			212.67				
				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP091**
Contract:	Blessington - Phase 3	Easting:	697740.451	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715457.470	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.33	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		MADE GROUND: brown sandy slightly gravelly silty clay with medium cobble content.		215.0					
0.5	0.70	Firm grey sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		214.5	214.63				
1.0						1.00	ES	MK198	
	1.30	Firm brown sandy slightly gravelly silty CLAY with low cobble content with frequent sandy laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		214.0	214.03				
1.5						1.50	B*	MK199	
2.0				213.5					
	2.40			213.0	212.93				
2.5	2.50	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies. **Pit terminated at 2.50m**			212.83	2.50	B*	MK200	
				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP092**
Contract:	Blessington - Phase 3	Easting:	697741.663	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715426.203	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.24	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		MADE GROUND: brown sandy slightly gravelly silty clay with medium cobble content.		215.0		0.50 0.50	B ES	MK187 MK188	
0.5				214.5					
1.0				214.0					
	1.40	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.84				
1.5	1.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		213.5	213.64	1.80	B*	MK189	
2.0	2.00	Light grey bown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		213.0	213.24				
2.5	2.50	**Pit terminated at 2.50m**		212.5	212.74	2.50	B*	MK190	

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP093**
Contract:	Blessington - Phase 3	Easting:	697686.750	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715396.219	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.89	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			215.69				
0.5				215.5		0.50 0.50	B ES	MK170 MK171	
				215.0					
1.0	1.00	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.89				
	1.20	Firm light brown slightly sandy slightly gravelly silty CLAY with occasional silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			214.69				
1.5				214.5		1.50	B	MK172	
				214.0					
2.0									
				213.5					
2.5	2.50	**Pit terminated at 2.50m**			213.39	2.50	B*	MK173	
				213.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP094**
Contract:	Blessington - Phase 3	Easting:	697668.511	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715379.470	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.28	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		215.0	215.08				
	0.40	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.88	0.50 0.50	B ES	MK163 MK164	
0.5				214.5					
1.0	1.00	Firm light grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			214.28				
				214.0					
1.5						1.50	B	MK165	
				213.5					
2.0									
	2.10	Light grey silty slightly gravelly fine to coarse SAND with medium cobble content. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.18	2.20	B*	MK166	
				213.0					
2.5	2.50	**Pit terminated at 2.50m**			212.78				
				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP095**
Contract:	Blessington - Phase 3	Easting:	697704.259	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715413.595	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.95	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.60 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.30	MADE GROUND: brown sandy slightly gravelly silty clay with medium cobble content.			215.65				
0.5				215.5		0.50 0.50	B ES	MK177 MK178	
	0.90	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			215.05				
1.0				215.0					
	1.20	Light bown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			214.75				
1.5				214.5		1.50	B	MK179	
2.0				214.0					
				213.5					
2.5	2.50	**Pit terminated at 2.50m**			213.45	2.50	B*	MK180	
				213.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP096**
Contract:	Blessington - Phase 3	Easting:	697672.866	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715358.991	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.12	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.70 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		215.0					
	0.20	Firm light brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			214.92				
0.5	0.50	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.5	214.62				
1.0						1.00	B*	MK158	
	1.10	Firm grey brown sandy slightly gravelly clayey SILT with occasional silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		214.0	214.02				
1.5						1.50	B	MK159	
	1.70	Firm light grey brown slightly sandy slightly gravelly silty CLAY with medium cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles and boulders are angular to subrounded of varied lithologies (up to 450mm diameter).		213.5	213.42				
2.0						2.00	B*	MK160	
	2.10	Obstruction - possible boulders. **Pit terminated at 2.10m**		213.0	213.02				
2.5				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Obstruction - boulders.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP097**
Contract:	Blessington - Phase 3	Easting:	697721.184	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715430.677	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	216.99	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.60 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
0.5		MADE GROUND: brown sandy slightly gravelly silty clay with medium cobble content.		216.5		0.50 0.50	B ES	MK183 MK184	
1.0				216.0					
1.5				215.5					
	1.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			215.39	1.80	B*	MK185	
2.0	2.00	Light grey bown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		215.0	214.99				
2.5	2.50	**Pit terminated at 2.50m**		214.5	214.49	2.50	B*	MK186	

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP098**
Contract:	Blessington - Phase 3	Easting:	697756.318	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715453.786	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.46	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.30 x 0.50 x 0.60	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			213.26				
0.5	0.50	Grey bown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		213.0	212.96				
	0.60	Pit terminated upon instruction from Archeologist.			212.86				
		Pit terminated at 0.60m							
1.0				212.5					
1.5				212.0					
2.0				211.5					
2.5				211.0					
				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Archeologist's instruction.	Pit walls stable.	Dry	Pit terminated upon instruction from Archeologist.	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP099**
Contract:	Blessington - Phase 3	Easting:	697763.972	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715424.677	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.53	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.30 x 0.50 x 0.60	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5					
	0.20	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.33				
0.5	0.50	Firm grey slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		213.0	213.03				
	0.60	Pit terminated upon instruction from Archeologist.			212.93				
		Pit terminated at 0.60m							
1.0				212.5					
1.5				212.0					
2.0				211.5					
2.5				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Archeologist's instruction.	Pit walls stable.	Dry	Pit terminated upon instruction from Archeologist.	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP100**
Contract:	Blessington - Phase 3	Easting:	697806.056	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715487.637	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.61	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 1.90	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		210.5					
	0.20	Firm light brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			210.41				
0.5				210.0					
1.0						1.00	B*	MK209	
				209.5					
	1.20	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.41				
1.5						1.50	B	MK210	
				209.0					
	1.90	Terminated due to pit wall collapse. **Pit terminated at 1.90m**			208.71				
2.0				208.5					
2.5				208.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP101**
Contract:	Blessington - Phase 3	Easting:	697784.292	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715427.496	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.59	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.60 x 0.50 x 0.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5					
	0.20	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.39				
0.5	0.50	Firm grey slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			213.09				
	0.70	Pit terminated upon instruction from Archeologist.		213.0	212.89				
		Pit terminated at 0.70m							
1.0				212.5					
1.5				212.0					
2.0				211.5					
2.5				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Archeologist's instruction.	Pit walls stable.	Dry	Pit terminated upon instruction from Archeologist.	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP102**
Contract:	Blessington - Phase 3	Easting:	697801.882	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715409.999	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.71	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.80 x 0.50 x 1.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.5	214.51				
0.5	0.60	Grey silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.0	214.11				
1.0						1.00	B	MK265	
	1.20	Terminated due to pit wall collapse. **Pit terminated at 1.20m**		213.5	213.51				
1.5				213.0					
2.0				212.5					
2.5				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP103**
Contract:	Blessington - Phase 3	Easting:	697781.512	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715407.094	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.34	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.14				
	0.40	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 300mm diameter).		214.0	213.94				
0.5									
				213.5					
1.0						1.00	B*	MK266	
	1.20	Firm grey brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			213.14				
	1.40	Light grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		213.0	212.94				
1.5						1.50	B	MK267	
				212.5					
2.0									
				212.0					
	2.40	Light grey brown silty slightly gravelly fine to coarse SAND with low cobble content. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.94				
2.5	2.50	**Pit terminated at 2.50m**			211.84	2.50	B*	MK268	
				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP104**
Contract:	Blessington - Phase 3	Easting:	697773.081	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715455.511	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.46	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.70 x 0.50 x 0.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.26				
0.5	0.50	Firm grey slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		213.0	212.96				
	0.70	Pit terminated upon instruction from Archeologist. **Pit terminated at 0.70m**			212.76				
1.0				212.5					
1.5				212.0					
2.0				211.5					
2.5				211.0					
				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Archeologist's instruction.	Pit walls stable.	Dry	Pit terminated upon instruction from Archeologist.	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP105**
Contract:	Blessington - Phase 3	Easting:	697753.000	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715432.941	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.87	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.67				
0.5				213.5		0.50	B	MK192	
	0.70	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.17				
1.0				213.0		1.00	B*	MK191	
	1.10	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.77				
1.5				212.5					
				212.0					
2.0									
	2.10	Terminated due to pit wall collapse.			211.77				
		Pit terminated at 2.10m							
2.5				211.5					
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP106**
Contract:	Blessington - Phase 3	Easting:	697768.624	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715472.425	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.88	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
0.5		MADE GROUND: brown sandy slightly gravelly silty clay with medium cobble content.		214.5		0.50 0.50	B ES	MK201 MK202	
	0.80				214.08				
1.0		Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		214.0		1.00	B*	MK203	
1.5				213.5					
	1.80				213.08				
		Firm light grey sandy slightly gravelly clayey SILT with frequent sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		213.0					
2.0	2.00				212.88				
		Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.5		2.20	B*	MK204	
2.5	2.50	**Pit terminated at 2.50m**			212.38				
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP107**
Contract:	Blessington - Phase 3	Easting:	697788.692	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715469.989	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.11	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
	0.10	TOPSOIL.		214.0	214.01				
		Dark brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.							
	0.40	Grey silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 300mm diameter).			213.71				
0.5				213.5					
1.0				213.0		1.00	B	MK205	
1.5				212.5					
2.0						2.00	B*	MK206	
	2.10	Terminated due to pit wall collapse.		212.0	212.01				
2.5		**Pit terminated at 2.10m**		211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP108**
Contract:	Blessington - Phase 3	Easting:	697785.998	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715490.665	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.85	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.			212.75				
	0.10	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.5					
0.5									
				212.0					
1.0						1.00	B	MK207	
				211.5					
1.5									
				211.0					
2.0						2.00	B*	MK208	
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			210.65				
2.5				210.5					
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP109**
Contract:	Blessington - Phase 3	Easting:	697689.956	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715322.391	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.34	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			214.14				
0.5				214.0		0.50 0.50	B ES	MK154 MK155	
	0.90	Light grey very silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		213.5	213.44				
1.0						1.00	B	MK156	
1.5				213.0					
2.0				212.5					
	2.20	Light grey very silty slightly gravelly fine to coarse SAND with frequent silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			212.14				
2.5	2.50	**Pit terminated at 2.50m**		212.0	211.84	2.50	B*	MK157	
				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP110**
Contract:	Blessington - Phase 3	Easting:	697634.355	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715266.595	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.15	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 1.90	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.0					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			212.95				
	0.40	Grey brown silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.75				
0.5				212.5		0.50	ES	MK16	
1.0				212.0		1.00	B	MK17	
1.5				211.5					
	1.90	Terminated due to pit wall collapse. **Pit terminated at 1.90m**			211.25				
2.0				211.0					
2.5				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP111**
Contract:	Blessington - Phase 3	Easting:	697630.389	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715285.659	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.65	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 1.60	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5					
	0.20	Firm light brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.45				
0.5									
	0.60	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		213.0	213.05				
1.0						1.00	B	MK118	
				212.5					
1.5									
	1.60	Terminated due to pit wall collapse. **Pit terminated at 1.60m**		212.0	212.05				
2.0									
				211.5					
2.5									
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP112**
Contract:	Blessington - Phase 3	Easting:	697617.468	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715246.015	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.88	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.10	MADE GROUND: grey brown very silty sandy gravel with high cobble content and some plastic, scrap metal and rag fragments.			211.78				
0.5	0.50	Firm light brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		211.5	211.38	0.50 0.50	B ES	MK25 MK26	
1.0	1.00	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		211.0	210.88	1.00	B	MK27	
1.5				210.5					
2.0				210.0		2.00	B*	MK28	
	2.10	Terminated due to pit wall collapse. **Pit terminated at 2.10m**			209.78				
2.5				209.5					
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP113**
Contract:	Blessington - Phase 3	Easting:	697608.879	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715330.591	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.53	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.5					
	0.20	Firm light brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			214.33				
	0.40	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.13				
0.5				214.0					
1.0				213.5		1.00	B	MK126	
	1.20	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.33				
1.5				213.0		1.50	B*	MK127	
	1.70	Light grey very silty slightly gravelly fine to coarse SAND with frequent silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			212.83				
2.0				212.5		2.00	B*	MK128	
2.5	2.50	**Pit terminated at 2.50m**		212.0	212.03				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP114**
Contract:	Blessington - Phase 3	Easting:	697597.115	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715258.332	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.75	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.10	MADE GROUND: grey brown very silty sandy gravel with high cobble content and some red brick fragments.			212.65				
0.5	0.40	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.35				
	0.80	Brown silty slightly sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.0	211.95				
1.0						1.00	B	MK23	
	1.30	Grey brown slightly silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		211.5	211.45				
1.5									
				211.0					
2.0						2.00	B*	MK24	
				210.5					
2.5	2.50	**Pit terminated at 2.50m**			210.25				
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP115**
Contract:	Blessington - Phase 3	Easting:	697597.568	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715305.513	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.00	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.60 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.80				
0.5				213.5		0.50 0.50	B ES	MK122 MK123	
	0.70	Grey silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.30				
1.0				213.0		1.00	B	MK124	
1.5				212.5					
2.0				212.0					
	2.20	Light grey very silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.80	2.40	B*	MK125	
2.5	2.50	**Pit terminated at 2.50m**		211.5	211.50				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP116**
Contract:	Blessington - Phase 3	Easting:	697580.626	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715286.710	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.54	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	6.50 x 0.50 x 2.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.34				
0.5				213.0		0.50 0.50	B ES	MK20 MK21	
	0.60	Brown grey slightly silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.94				
1.0				212.5		1.00	B	MK22	
1.5				212.0					
2.0	2.00	Terminated due to pit wall collapse. **Pit terminated at 2.00m**		211.5	211.54				
2.5				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP117**
Contract:	Blessington - Phase 3	Easting:	697603.860	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715284.025	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.62	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 1.90	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5					
	0.20	Brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.42				
0.5				213.0					
	0.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.82				
1.0						1.00	B	MK19	
				212.5					
1.5									
				212.0					
	1.90	Terminated due to pit wall collapse. **Pit terminated at 1.90m**			211.72				
2.0									
				211.5					
2.5									
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP118**
Contract:	Blessington - Phase 3	Easting:	697614.431	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715263.964	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.75	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.80 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.55				
	0.40	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.35				
0.5									
				212.0					
1.0						1.00	B	MK18	
				211.5					
1.5									
	1.70	Firm grey slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.05				
	1.80	Terminated due to pit wall collapse.		211.0	210.95				
2.0		**Pit terminated at 1.80m**							
				210.5					
2.5									
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP119**
Contract:	Blessington - Phase 3	Easting:	697619.433	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715301.224	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.93	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.50 x 0.50 x 1.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.73				
0.5				213.5					
	0.70	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.23				
1.0				213.0		1.00	B	MK133	
				212.5					
1.5	1.50	Terminated due to pit wall collapse. **Pit terminated at 1.50m**			212.43				
2.0				212.0					
				211.5					
2.5									
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP120**
Contract:	Blessington - Phase 3	Easting:	697633.513	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715354.376	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.05	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		215.0					
	0.20	Firm light brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			214.85				
0.5				214.5					
	0.60	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.45				
1.0				214.0		1.00	B*	MK141	
	1.10	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.95				
1.5				213.5		1.50	B	MK142	
	1.90	Light grey very silty slightly gravelly fine to coarse SAND with frequent silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			213.15				
2.0				213.0		2.00	B*	MK143	
2.5	2.50	**Pit terminated at 2.50m**		212.5	212.55				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP121**
Contract:	Blessington - Phase 3	Easting:	697651.191	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715307.844	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.62	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5	213.52				
	0.10	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.				0.50	B	MK114	
0.5						0.50	ES	MK115	
	0.60	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		213.0	213.02				
1.0						1.00	B	MK116	
	1.20	Firm grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.42				
1.5				212.0					
2.0						2.00	B*	MK117	
	2.20	Grey brown silty slightly gravelly fine to coarse SAND with medium cobble content. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		211.5	211.42				
2.5	2.50	**Pit terminated at 2.50m**			211.12				
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP122**
Contract:	Blessington - Phase 3	Easting:	697630.313	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715333.735	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.43	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20				214.23				
		Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.0					
0.5						0.50	B	MK134	
						0.50	ES	MK135	
	0.80				213.63				
		Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		213.5					
1.0									
				213.0					
1.5						1.50	B	MK136	
	1.60				212.83				
		Light grey very silty slightly gravelly fine to coarse SAND with frequent silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.		212.5					
2.0						2.00	B	MK137	
				212.0					
2.5	2.50	**Pit terminated at 2.50m**			211.93				
				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP123**
Contract:	Blessington - Phase 3	Easting:	697668.865	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715325.129	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.82	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.5	213.62				
0.5						0.50	B	MK147	
						0.50	ES	MK148	
	0.60	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.22				
				213.0					
1.0									
	1.10	Light grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.72				
				212.5					
1.5						1.50	B	MK149	
	1.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.0	212.02				
2.0						2.00	B*	MK150	
				211.5					
2.5	2.50	**Pit terminated at 2.50m**			211.32				
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP124**
Contract:	Blessington - Phase 3	Easting:	697672.339	Date:	13/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715304.535	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.03	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.80 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.0					
	0.20	Firm light brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.83				
0.5	0.50	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		213.5	213.53				
1.0				213.0		1.00	B	MK14	
1.5	1.50	Firm grey slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.53				
2.0				212.0		2.00	B*	MK15	
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			211.83				
2.5				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Pit walls unstable in GRAVEL strata.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP125**
Contract:	Blessington - Phase 3	Easting:	697654.725	Date:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715286.841	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.75	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 1.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.5	213.55				
0.5	0.50	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.25				
				213.0					
1.0						1.00	B	MK113	
				212.5					
1.5									
	1.70	Terminated due to pit wall collapse. **Pit terminated at 1.70m**			212.05				
				212.0					
2.0									
				211.5					
2.5									
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP126**
Contract:	Blessington - Phase 3	Easting:	697650.221	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715337.791	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.69	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		214.5	214.49				
0.5				214.0					
	0.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.79				
1.0						1.00	B	MK144	
				213.5					
1.5	1.50	Firm light grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.19				
				213.0		1.70	B*	MK145	
	1.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.79				
2.0				212.5		2.20	B*	MK146	
2.5	2.50	**Pit terminated at 2.50m**			212.19				
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP127**
Contract:	Blessington - Phase 3	Easting:	697625.751	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715313.652	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.88	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.68				
0.5				213.5		0.50	B	MK129	
						0.50	ES	MK130	
	0.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.28				
				213.0					
1.0						1.00	B	MK131	
				212.5					
1.5									
	1.60	Light grey very silty slightly gravelly fine to coarse SAND with frequent silt bands. Gravel is fine to coarse, angular to subrounded of varied lithologies.			212.28				
				212.0					
2.0						2.00	B*	MK132	
				211.5					
2.5	2.50	**Pit terminated at 2.50m**			211.38				
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Minor pit wall collapse during excavation.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP128**
Contract:	Blessington - Phase 3	Easting:	697645.563	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715317.426	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.44	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.30	MADE GROUND: brown sandy slightly gravelly silty clay with low cobble content.			215.14				
0.5				215.0		0.50 0.50	B ES	MK138 MK139	
1.0				214.5					
				214.0					
1.5	1.50	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.94				
2.0				213.5		2.00	B*	MK140	
				213.0					
2.5	2.50	**Pit terminated at 2.50m**			212.94				
				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP129**
Contract:	Blessington - Phase 3	Easting:	697654.402	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715358.976	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.05	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		215.0					
	0.10	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.95				
0.5				214.5					
	0.70	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 600mm diameter).			214.35				
1.0				214.0		1.00	B	MK161	
1.5				213.5					
	1.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.45	1.70	B*	MK162	
	1.80	Terminated due to pit wall collapse. **Pit terminated at 1.80m**			213.25				
2.0				213.0					
2.5				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP130**
Contract:	Blessington - Phase 3	Easting:	697670.388	Date:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715342.154	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.83	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.5					
	0.40	MADE GROUND: brown sandy slightly gravelly silty clay with low cobble content.			214.43				
0.5				214.0					
	0.90	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.93	1.00	B*	MK151	
1.0									
	1.20	Firm light grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.5	213.63				
1.5						1.50	B	MK152	
				213.0					
2.0									
	2.10	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.73				
				212.5					
2.5	2.50	**Pit terminated at 2.50m**			212.33	2.50	B*	MK153	
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP131**
Contract:	Blessington - Phase 3	Easting:	697799.874	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715388.516	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.90	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 1.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.70				
0.5				214.5					
				214.0					
1.0						1.00	B*	MK240	
	1.20	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.70				
				213.5					
1.5	1.50	Terminated due to pit wall collapse. **Pit terminated at 1.50m**			213.40	1.50	B	MK241	
				213.0					
2.0									
				212.5					
2.5									
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP132**
Contract:	Blessington - Phase 3	Easting:	697914.957	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715313.901	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.04	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		210.0					
	0.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 350mm diameter).			209.74				
0.5				209.5		0.50 0.50	B ES	MK409 MK410	
1.0				209.0		1.00	B*	MK411	
1.5	1.50	Light grey silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.		208.5	208.54				
2.0				208.0					
	2.20	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			207.84				
2.5	2.50	**Pit terminated at 2.50m**		207.5	207.54	2.50	B*	MK412	

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP133**
Contract:	Blessington - Phase 3	Easting:	697899.720	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715330.023	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.29	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 250mm diameter).		211.0	210.99				
0.5				210.5		0.50 0.50	B ES	MK404 MK405	
1.0						1.00	B*	MK406	
1.5				210.0					
2.0				209.5		2.00	B*	MK407	
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			209.09				
2.5				209.0					
				208.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP134**
Contract:	Blessington - Phase 3	Easting:	697897.802	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715315.801	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.81	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.30	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.61				
0.5				211.5					
	0.60	Grey slightly silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.21				
				211.0					
1.0									
				210.5					
1.5						1.50	B	MK408	
				210.0					
2.0									
	2.30	Terminated due to pit wall collapse. **Pit terminated at 2.30m**		209.5	209.51				
2.5									
				209.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP135**
Contract:	Blessington - Phase 3	Easting:	697904.518	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715288.365	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.88	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.68				
0.5				210.5		0.50	B	MK413	
						0.50	ES	MK414	
	0.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 250mm diameter).			210.28				
				210.0					
1.0						1.00	B*	MK415	
				209.5					
1.5									
				209.0					
2.0									
				208.5					
2.5	2.50	**Pit terminated at 2.50m**			208.38	2.50	B*	MK416	
				208.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP136**
Contract:	Blessington - Phase 3	Easting:	697882.048	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715299.389	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	211.53	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		211.5					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.33				
0.5				211.0					
	0.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.93				
1.0				210.5		1.00	B	MK417	
1.5				210.0					
2.0				209.5		2.00	B	MK418	
2.5	2.50	**Pit terminated at 2.50m**		209.0	209.03				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP137**
Contract:	Blessington - Phase 3	Easting:	697863.765	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715332.874	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.02	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.0					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.82				
0.5				212.5					
	0.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and medium boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 450mm diameter).			212.22				
1.0				212.0		1.00	B	MK351	
1.5				211.5					
2.0	2.00	Terminated due to pit wall collapse. **Pit terminated at 2.00m**		211.0	211.02	2.00	B*	MK352	
2.5				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP138**
Contract:	Blessington - Phase 3	Easting:	697867.135	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715313.763	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.33	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.0	212.03				
0.5									
				211.5					
1.0						1.00	B	MK345	
				211.0					
1.5									
				210.5					
2.0						2.00	B*	MK346	
	2.20	Terminated due to pit wall collapse.			210.13				
		Pit terminated at 2.20m		210.0					
2.5									
				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP139**
Contract:	Blessington - Phase 3	Easting:	697884.080	Date:	26/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715329.143	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.52	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		212.5					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.32				
0.5				212.0		0.50 0.50	B ES	MK400 MK401	
	0.70	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.82				
1.0				211.5		1.00	B*	MK402	
1.5				211.0					
2.0				210.5		2.00	B*	MK403	
2.5	2.50	**Pit terminated at 2.50m**		210.0	210.02				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP140**
Contract:	Blessington - Phase 3	Easting:	697900.176	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715352.548	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.28	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.00 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		210.0	210.08				
0.5									
	0.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and medium boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 350mm diameter).		209.5	209.68				
1.0						1.00	B	MK359	
				209.0					
1.5									
				208.5					
2.0						2.00	B*	MK360	
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**		208.0	208.08				
2.5									
				207.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP141**
Contract:	Blessington - Phase 3	Easting:	697879.269	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715348.030	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.75	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.30	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.5	212.55				
0.5									
	0.70	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 700mm diameter).		212.0	212.05				
1.0						1.00	B*	MK357	
				211.5					
1.5									
				211.0					
2.0						2.00	B*	MK358	
	2.30	Terminated due to pit wall collapse.		210.5	210.45				
		Pit terminated at 2.30m							
2.5									
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP142**
Contract:	Blessington - Phase 3	Easting:	697722.636	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715326.931	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.28	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.0	212.08				
0.5				211.5					
	0.90	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			211.38				
1.0				211.0					
1.5						1.50	B	MK271	
	1.60	Firm grey brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.		210.5	210.68				
	1.80	Firm grey brown slightly sandy slightly gravelly clayey SILT with some silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.48				
2.0						2.00	B*	MK272	
				210.0					
2.5	2.50	**Pit terminated at 2.50m**			209.78				
				209.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP143**
Contract:	Blessington - Phase 3	Easting:	697787.176	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715356.709	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.27	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		214.0	214.07				
0.5	0.50	Firm grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.5	213.77				
1.0						1.00	B	MK234	
				213.0					
1.5									
				212.5					
2.0						2.00	B*	MK235	
				212.0					
2.5	2.50	**Pit terminated at 2.50m**			211.77				
				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP144**
Contract:	Blessington - Phase 3	Easting:	697770.174	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715340.016	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.89	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.69				
0.5	0.50	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.5	213.39				
1.0				213.0		1.00	B	MK232	
	1.10	Grey brown silty slightly gravelly fine to coarse SAND with occasional silt laminas. Gravel is fine to coarse, angular to subrounded of varied lithologies.			212.79				
1.5				212.5					
				212.0					
2.0						2.00	B*	MK233	
				211.5					
2.5	2.50	**Pit terminated at 2.50m**			211.39				
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP145**
Contract:	Blessington - Phase 3	Easting:	697792.742	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715349.480	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.03	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.0					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.83				
0.5				213.5		0.50 0.50	B ES	MK236 MK237	
	0.60	Firm grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.43				
1.0				213.0					
1.5				212.5		1.50	B	MK238	
2.0				212.0					
	2.10	Stiff light grey brown slightly sandy slightly gravelly clayey SILT with occasional sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.93				
						2.40	B*	MK239	
2.5	2.50	**Pit terminated at 2.50m**		211.5	211.53				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP146**
Contract:	Blessington - Phase 3	Easting:	697810.406	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715332.572	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.17	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.60 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.0					
	0.20	Firm light brown sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.97				
0.5				212.5					
1.0						1.00	B	MK287	
				212.0					
	1.30	Firm grey brown slightly sandy slightly gravelly clayey SILT with frequent silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.87				
1.5				211.5					
2.0						2.00	B*	MK288	
				211.0					
2.5	2.50	**Pit terminated at 2.50m**			210.67				
				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP147**
Contract:	Blessington - Phase 3	Easting:	697814.206	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715351.798	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.75	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.5	213.55				
0.5									
				213.0					
1.0						1.00	B	MK293	
	1.20	Firm becoming stiff grey brown slightly sandy gravelly silty CLAY with medium cobble content and occasional gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		212.5	212.55				
1.5									
				212.0					
2.0						2.00	B*	MK294	
				211.5					
2.5	2.50	**Pit terminated at 2.50m**			211.25				
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP148**
Contract:	Blessington - Phase 3	Easting:	697766.768	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715361.029	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.51	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.30	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			214.31				
0.5				214.0		0.50 0.50	B ES	MK228 MK229	
	0.70	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.81				
1.0				213.5		1.00	B	MK230	
1.5				213.0					
	1.60	Firm light grey brown slightly sandy gravelly silty CLAY with low cobble content and some silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.91				
2.0				212.5		2.00	B*	MK231	
	2.30	Terminated due to pit wall collapse. **Pit terminated at 2.30m**			212.21				
2.5				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP149**
Contract:	Blessington - Phase 3	Easting:	697748.607	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715343.203	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.04	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.80 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.0					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.84				
0.5				213.5		0.50 0.50	B ES	MK225 MK226	
	0.80	Grey brown silty slightly gravelly fine to coarse SAND with occasional silt laminas. Gravel is fine to coarse, angular to subrounded of varied lithologies.			213.24				
1.0				213.0					
1.5				212.5		1.50	B	MK227	
2.0				212.0					
2.5	2.50	**Pit terminated at 2.50m**		211.5	211.54				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP150**
Contract:	Blessington - Phase 3	Easting:	697785.604	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715380.490	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.73	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.5	214.53				
0.5				214.0					
1.0						1.00	B	MK269	
	1.10	Firm grey brown sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.5	213.63				
1.5						1.50	B*	MK270	
				213.0					
2.0	2.00	Terminated due to pit wall collapse. **Pit terminated at 2.00m**			212.73				
				212.5					
2.5									
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP151**
Contract:	Blessington - Phase 3	Easting:	697760.402	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715323.129	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.22	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm grey brown slightly sandy slightly gravelly silty CLAY with high cobble content and some gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.		213.0	213.02				
0.5				212.5					
1.0						1.00	B	MK223	
	1.10	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.0	212.12				
	1.40	Firm light grey brown sandy slightly gravelly clayey SILT with frequent sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.82				
1.5				211.5					
2.0						2.00	B*	MK224	
				211.0					
2.5	2.50	**Pit terminated at 2.50m**			210.72				
				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP152**
Contract:	Blessington - Phase 3	Easting:	697730.498	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715306.175	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.02	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl)		Stratum Description	Legend	Level (mOD)		Samples / Field Tests			Water Strike
Scale:	Depth			Scale:	Depth:	Depth	Type	Result	
		TOPSOIL.		213.0					
	0.30	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.72				
0.5				212.5					
	0.70	Light grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			212.32				
1.0				212.0		1.00	B	MK273	
1.5				211.5					
2.0				211.0					
2.5	2.50	**Pit terminated at 2.50m**		210.5	210.52	2.50	B*	MK274	

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP153**
Contract:	Blessington - Phase 3	Easting:	697900.035	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715390.732	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	210.67	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.00 x 0.50 x 1.40	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		210.5					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			210.47				
0.5				210.0		0.50 0.50	B ES	MK304 MK305	
	0.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			209.87				
1.0				209.5		1.00	B*	MK306	
	1.40	Terminated due to pit wall collapse. **Pit terminated at 1.40m**			209.27				
1.5				209.0					
2.0				208.5					
2.5				208.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP154**
Contract:	Blessington - Phase 3	Easting:	697825.351	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715433.098	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.20	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		215.0	215.00				
	0.40	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.80				
0.5				214.5					
1.0						1.00	B	MK260	
				214.0					
1.5									
				213.5					
2.0						2.00	B*	MK261	
				213.0					
2.5	2.50	**Pit terminated at 2.50m**			212.70				
				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP155**
Contract:	Blessington - Phase 3	Easting:	697829.011	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715454.319	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.12	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 1.90	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
0.5	0.10	TOPSOIL.		214.0	214.02				
		Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 300mm diameter).		213.5					
1.0				213.0					
1.5				212.5		1.50	B	MK219	
2.0	1.90	Terminated due to pit wall collapse. **Pit terminated at 1.90m**		212.0	212.22				
2.5				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP156**
Contract:	Blessington - Phase 3	Easting:	697847.649	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715436.155	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.62	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.5					
	0.20	Grey slightly silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.42				
0.5				214.0		0.50 0.50	B ES	MK220 MK221	
1.0				213.5		1.00	B*	MK222	
1.5				213.0					
2.0				212.5					
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			212.42				
2.5				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP157**
Contract:	Blessington - Phase 3	Easting:	697835.067	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715401.339	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.42	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.30	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			215.22				
0.5				215.0					
	0.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.5	214.52	1.00	B*	MK255	
1.0									
1.5				214.0					
				213.5		2.00	B*	MK256	
2.0									
	2.30	Terminated due to pit wall collapse. **Pit terminated at 2.30m**			213.12				
2.5				213.0					
				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP158**
Contract:	Blessington - Phase 3	Easting:	697817.774	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715385.417	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.92	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.72				
0.5				214.5		0.50	B	MK242	
						0.50	ES	MK243	
	0.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.32				
1.0				214.0					
				213.5					
1.5						1.50	B	MK244	
	1.80	Terminated due to pit wall collapse.			213.12				
		Pit terminated at 1.80m		213.0					
2.0									
				212.5					
2.5									
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP159**
Contract:	Blessington - Phase 3	Easting:	697797.258	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715431.864	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.13	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 1.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.0					
	0.20	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content and some gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			213.93				
0.5				213.5		0.50 0.50	B ES	MK262 MK263	
1.0									
	1.10	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		213.0	213.03				
1.5						1.50	B*	MK264	
	1.70	Terminated due to pit wall collapse. **Pit terminated at 1.70m**		212.5	212.43				
2.0				212.0					
2.5				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP160**
Contract:	Blessington - Phase 3	Easting:	697823.301	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715410.899	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.31	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.60 x 0.50 x 2.00	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			215.11				
0.5				215.0		0.50	B	MK257	
						0.50	ES	MK258	
	0.70	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.61				
1.0				214.5					
				214.0					
1.5						1.50	B*	MK259	
				213.5					
2.0	2.00	Terminated due to pit wall collapse. **Pit terminated at 2.00m**			213.31				
				213.0					
2.5									
				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP161**
Contract:	Blessington - Phase 3	Easting:	697795.517	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715452.164	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.18	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 1.60	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.0	213.98				
	0.20	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.							
0.5				213.5					
1.0						1.00	B	MK215	
				213.0					
1.5									
	1.60	Terminated due to pit wall collapse. **Pit terminated at 1.60m**			212.58				
2.0				212.5					
				212.0					
2.5									
				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP162**
Contract:	Blessington - Phase 3	Easting:	697807.543	Date:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715468.892	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.80	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.15	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.65				
0.5				213.5		0.50 0.50	B ES	MK211 MK212	
				213.0					
1.0						1.00	B*	MK213	
				212.5					
1.5									
				212.0					
2.0						2.00	B*	MK214	
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			211.60				
2.5				211.5					
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP163**
Contract:	Blessington - Phase 3	Easting:	697807.180	Date:	20/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715450.354	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.58	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		214.5					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.38				
0.5						0.50	B	MK216	
	0.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are angular to subrounded of varied lithologies (up to 300mm diameter).		214.0	213.98	0.50	ES	MK217	
1.0						1.00	B*	MK218	
				213.5					
1.5									
				213.0					
2.0									
	2.10	Terminated due to pit wall collapse. **Pit terminated at 2.10m**		212.5	212.48				
2.5									
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP164**
Contract:	Blessington - Phase 3	Easting:	697856.914	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715416.722	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	215.07	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.10 x 0.50 x 2.20	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		215.0					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.87				
0.5	0.50	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.5	214.57	0.50 0.50	B ES	MK252 MK253	
1.0				214.0					
1.5				213.5		1.50	B*	MK254	
2.0				213.0					
	2.20	Terminated due to pit wall collapse. **Pit terminated at 2.20m**			212.87				
2.5				212.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP165**
Contract:	Blessington - Phase 3	Easting:	697877.092	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715391.357	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.50	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.30				
0.5				213.0					
	0.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.60				
1.0				212.5		1.00	B*	MK302	
1.5				212.0					
2.0				211.5					
	2.30	Light grey brown silty slightly gravelly fine to coarse SAND. Gravel is fine to coarse, angular to subrounded of varied lithologies.			211.20				
2.5	2.50	**Pit terminated at 2.50m**		211.0	211.00	2.50	B*	MK303	

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP166**
Contract:	Blessington - Phase 3	Easting:	697860.077	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715374.347	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.26	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 1.60	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.0	214.06				
0.5						0.50	B	MK299	
						0.50	ES	MK300	
				213.5					
	0.90	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.36				
1.0				213.0					
1.5						1.50	B	MK301	
	1.60	Terminated due to pit wall collapse. **Pit terminated at 1.60m**			212.66				
				212.5					
2.0									
				212.0					
2.5									
				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP167**
Contract:	Blessington - Phase 3	Easting:	697844.151	Date:	25/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715335.130	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.00	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.30	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Firm light brown slightly sandy gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.80				
0.5				212.5		0.50 0.50	B ES	MK353 MK354	
	0.80	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content and frequent gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.20				
1.0				212.0					
1.5				211.5		1.50	B*	MK355	
2.0				211.0					
	2.10	Firm grey brown slightly sandy gravelly silty CLAY with occasional gravel laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies.			210.90				
	2.30	Terminated due to pit wall collapse. **Pit terminated at 2.30m**			210.70	2.30	B*	MK356	
2.5				210.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP168**
Contract:	Blessington - Phase 3	Easting:	697880.251	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715370.533	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	212.74	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 1.80	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		212.5	212.54				
0.5									
				212.0					
1.0						1.00	B*	MK307	
				211.5					
	1.30	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			211.44				
1.5						1.50	B*	MK308	
				211.0					
	1.80	Terminated due to pit wall collapse. **Pit terminated at 1.80m**			210.94				
2.0									
				210.5					
2.5									
				210.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP169**
Contract:	Blessington - Phase 3	Easting:	697863.112	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715353.313	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.52	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 1.70	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.		213.5					
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.32				
0.5				213.0					
	0.70	Grey slightly silty very sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			212.82				
1.0				212.5		1.00	B	MK298	
1.5				212.0					
	1.70	Terminated due to pit wall collapse. **Pit terminated at 1.70m**			211.82				
2.0				211.5					
2.5				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP170**
Contract:	Blessington - Phase 3	Easting:	697838.436	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715382.662	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.75	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.00 x 0.50 x 1.60	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.5	214.55				
0.5									
	0.70	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.0	214.05				
1.0									
				213.5					
1.5						1.50	B	MK246	
	1.60	Terminated due to pit wall collapse. **Pit terminated at 1.60m**			213.15				
				213.0					
2.0									
				212.5					
2.5									
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP171**
Contract:	Blessington - Phase 3	Easting:	697821.637	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715366.112	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.29	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	3.90 x 0.50 x 2.10	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		214.0	214.09				
0.5									
	0.80	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.		213.5	213.49				
1.0									
				213.0					
1.5						1.50	B	MK245	
				212.5					
2.0									
	2.10	Terminated due to pit wall collapse.			212.19				
		Pit terminated at 2.10m		212.0					
2.5									
				211.5					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Pit wall instability.	Major pit wall collapse forcing completion.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP172**
Contract:	Blessington - Phase 3	Easting:	697857.707	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715398.422	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	214.96	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.30 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.76				
0.5				214.5		0.50	B	MK247	
						0.50	ES	MK248	
	0.60	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			214.36				
1.0				214.0					
1.5				213.5		1.50	B*	MK249	
2.0				213.0					
2.5	2.50	**Pit terminated at 2.50m**		212.5	212.46				
				212.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP173**
Contract:	Blessington - Phase 3	Easting:	697843.451	Date:	24/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715356.679	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.81	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.40 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey brown silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.61				
0.5				213.5		0.50 0.50	B ES	MK295 MK296	
1.0				213.0					
	1.10	Firm light grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content and occasional silty sand laminas. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of varied lithologies. Cobbles are angular to subrounded of varied lithologies.			212.71				
1.5				212.5		1.50	B	MK297	
2.0				212.0					
				211.5					
2.5	2.50	**Pit terminated at 2.50m**			211.31				
				211.0					

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 6100	**Trial Pit Log**				Trial Pit No: **TP174**
Contract:	Blessington - Phase 3	Easting:	697875.007	Date:	21/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715416.128	Excavator:	JCB 3CX
Client:	Cairn Homes Ltd	Elevation:	213.49	Logged By:	M. Kaliski
Engineer:	DBFL	Dimensions (LxWxD) (m):	4.20 x 0.50 x 2.50	Status:	FINAL

Level (mbgl) Scale:	Depth	Stratum Description	Legend	Level (mOD) Scale:	Depth:	Samples / Field Tests Depth	Type	Result	Water Strike
		TOPSOIL.							
	0.20	Grey silty sandy fine to coarse, angular to subrounded GRAVEL of varied lithologies with high cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of varied lithologies.			213.29				
0.5				213.0					
1.0				212.5		1.00	B	MK250	
1.5				212.0					
2.0				211.5		2.00	B*	MK251	
2.5	2.50	**Pit terminated at 2.50m**		211.0	210.99				

Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Scheduled depth.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

TP001 Sidewall

TP001 Spoil

TP002 Sidewall

TP002 Spoil

TP003 Sidewall

TP003 Spoil

TP004 Sidewall

TP004 Spoil

TP005 Sidewall

TP005 Spoil

TP006 Sidewall

TP006 Spoil

TP007 Sidewall

TP007 Spoil

TP008 Sidewall

TP008 Spoil

TP009 Sidewall

TP009 Spoil

TP010 Sidewall

TP010 Spoil

TP011 Sidewall

TP011 Spoil

TP012 Sidewall

TP012 Spoil

TP013 Sidewall

TP013 Spoil

TP014 Sidewall

TP014 Spoil

TP017 Sidewall

TP017 Spoil

TP018 Sidewall

TP018 Spoil

TP019 Sidewall

TP019 Spoil

TP020 Sidewall

TP020 Spoil

TP021 Sidewall

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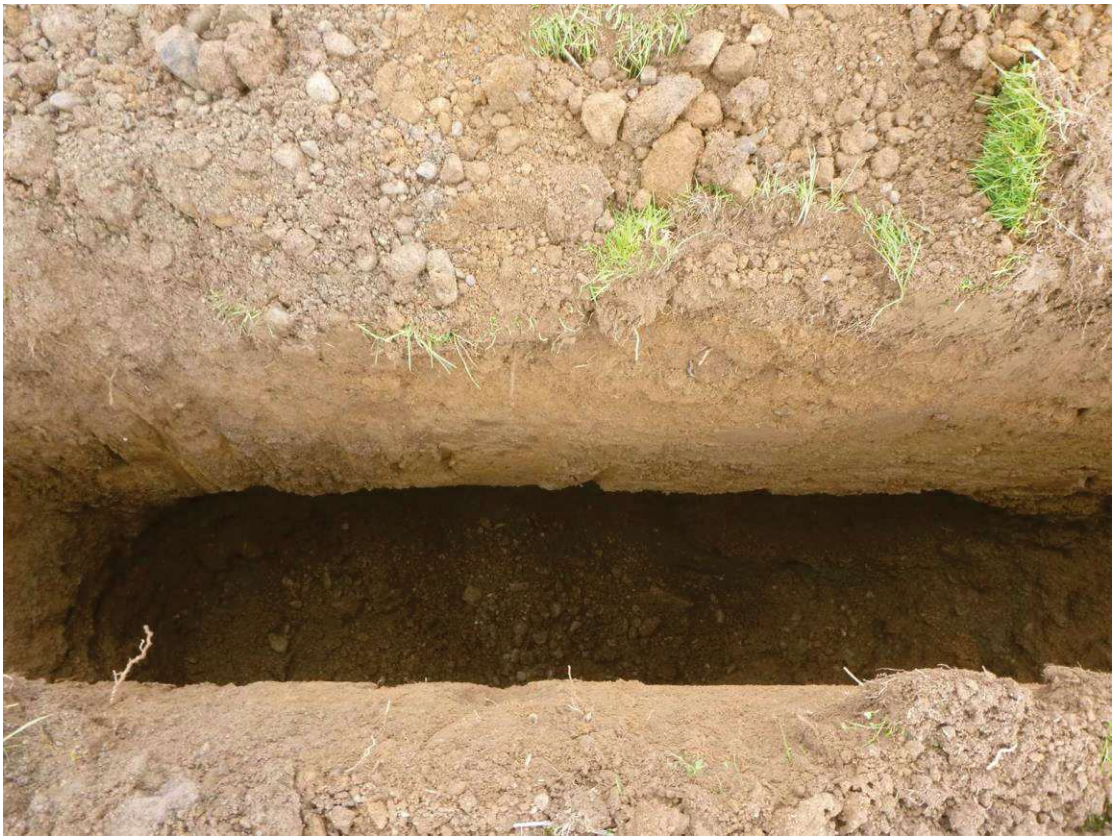
TP024 Sidewall

TP024 Spoil

TP025 Sidewall

TP025 Spoil

TP026 Sidewall



TP026 Spoil

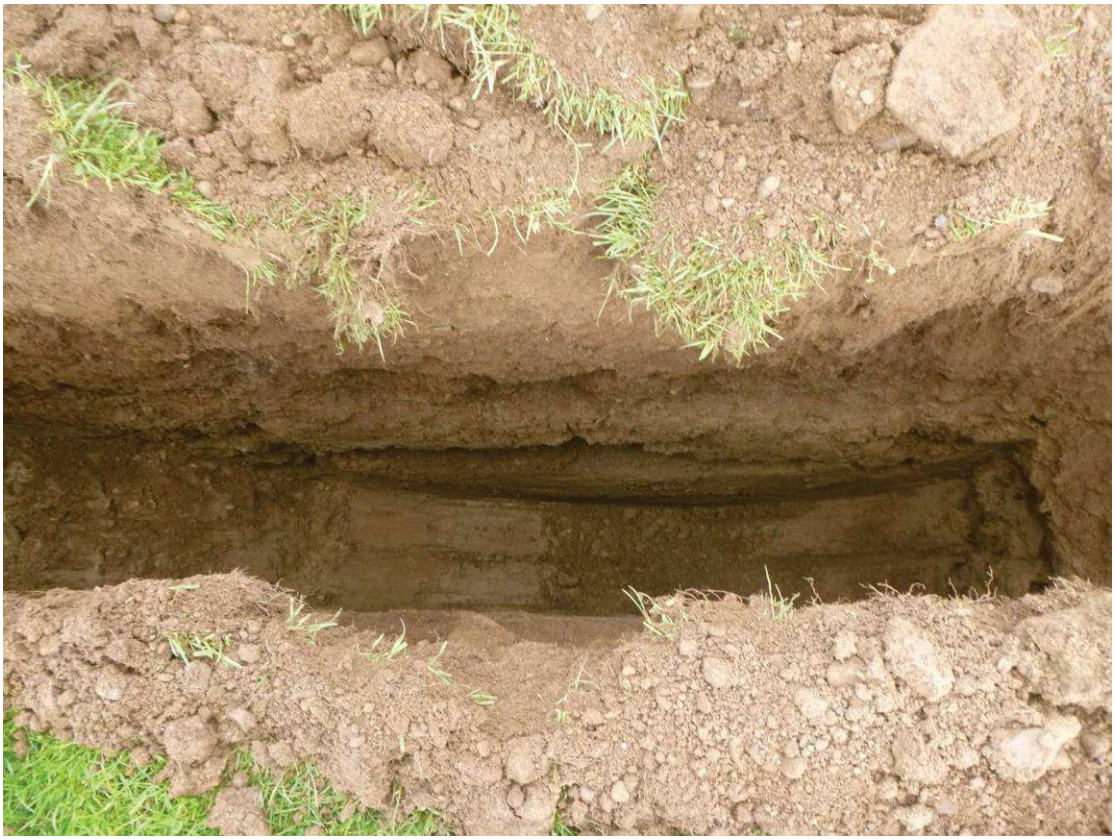
TP027 Sidewall

TP027 Spoil

TP028 Sidewall

TP028 Spoil

TP029 Sidewall



TP029 Spoil

TP030 Sidewall

TP030 Spoil

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TP032 Sidewall

TP032 Spoil

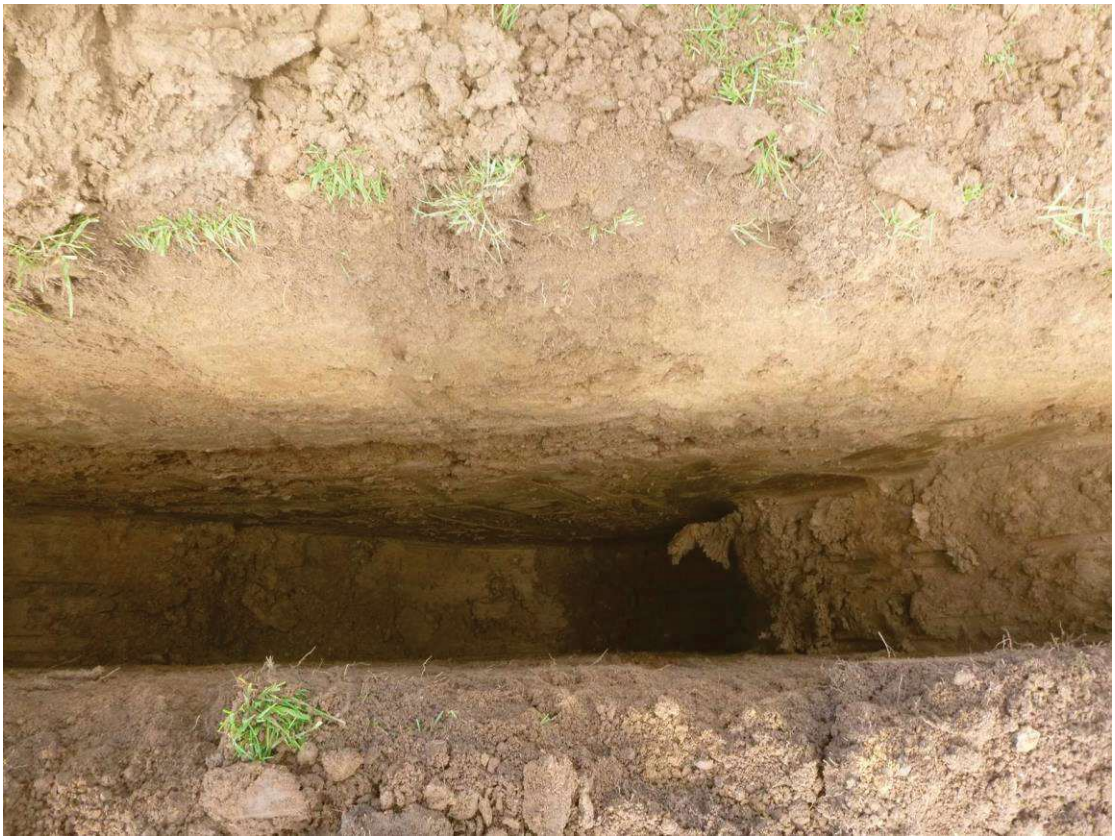
TP033 Sidewall

TP033 Spoil

TP034 Sidewall

TP034 Spoil

TP035 Sidewall



TP035 Spoil

TP036 Sidewall

TP036 Spoil

TP037 Sidewall

TP037 Spoil

TP038 Sidewall

TP038 Spoil

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TP039 Spoil

TP040 Sidewall

TP040 Spoil

TP041 Sidewall

TP041 Spoil

TP042 Sidewall

TP042 Spoil

TP043 Sidewall

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TP044 Sidewall

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TP047 Sidewall

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TP163 Sidewall

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TP164 Sidewall

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TP165 Spoil

TP166 Sidewall

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TP167 Sidewall

TP167 Spoil

TP168 Sidewall

TP168 Spoil

TP169 Sidewall

TP169 Spoil

TP170 Sidewall

TP170 Spoil

TP171 Sidewall

TP171 Spoil

TP172 Sidewall

TP172 Spoil

TP173 Sidewall

TP173 Spoil

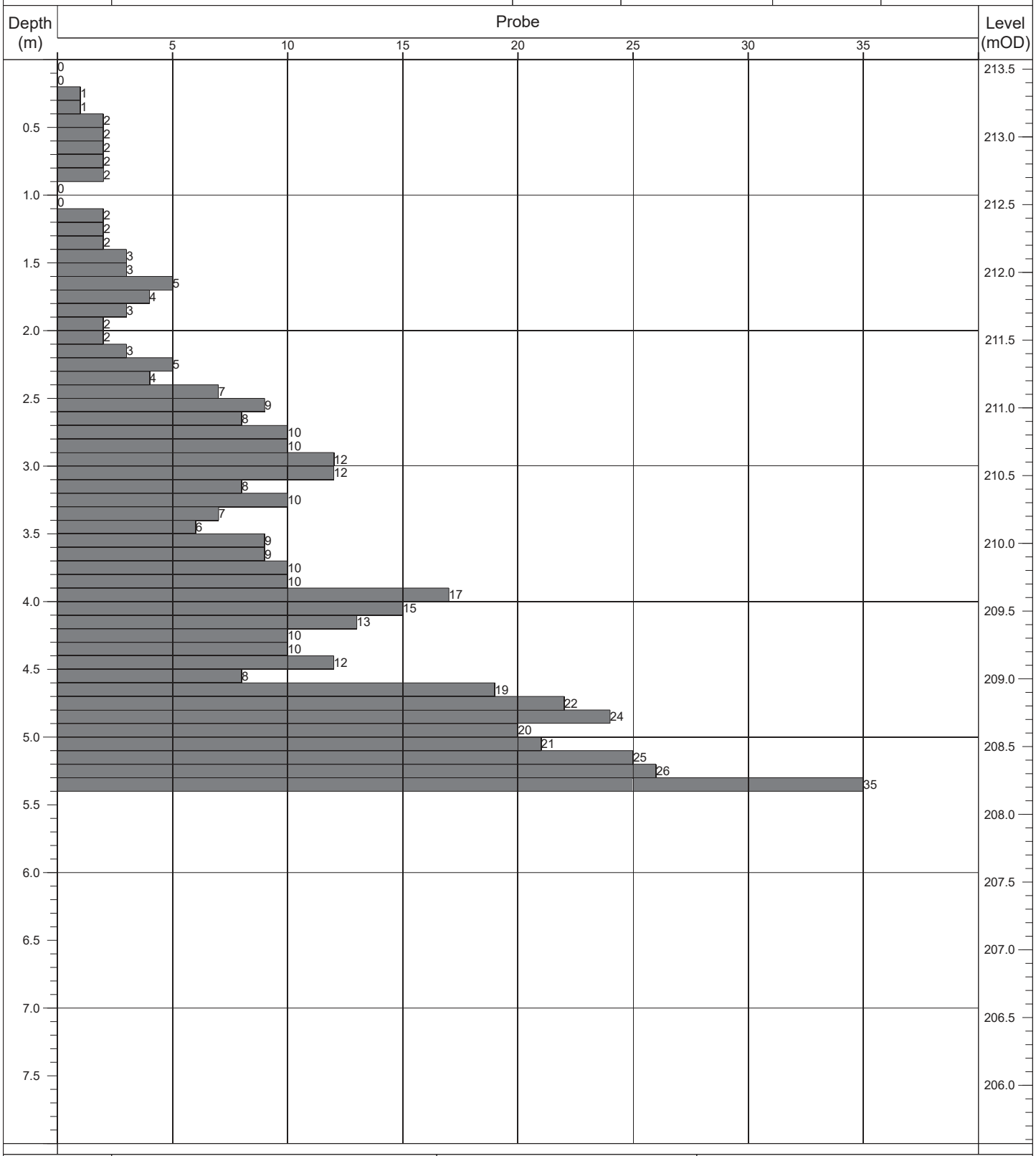
TP174 Sidewall

TP174 Spoil

Appendix 3
Dynamic Probe Logs

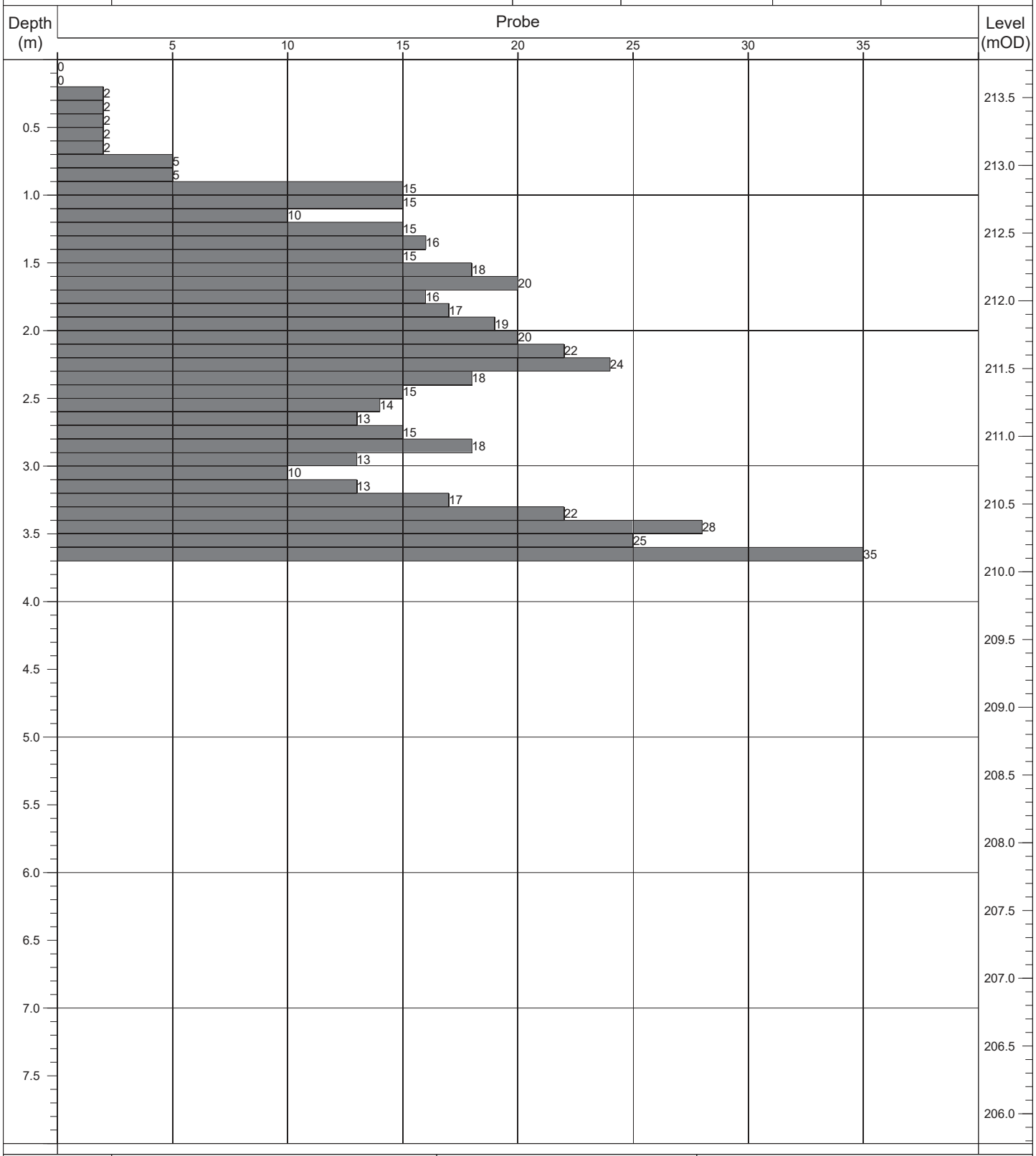
DRAFT

Contract No: 6100	Dynamic Probe Log				Probe No: DP001
Contract:	Blessington - Phase 3	Easting:	697872.728	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715374.737	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.57	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



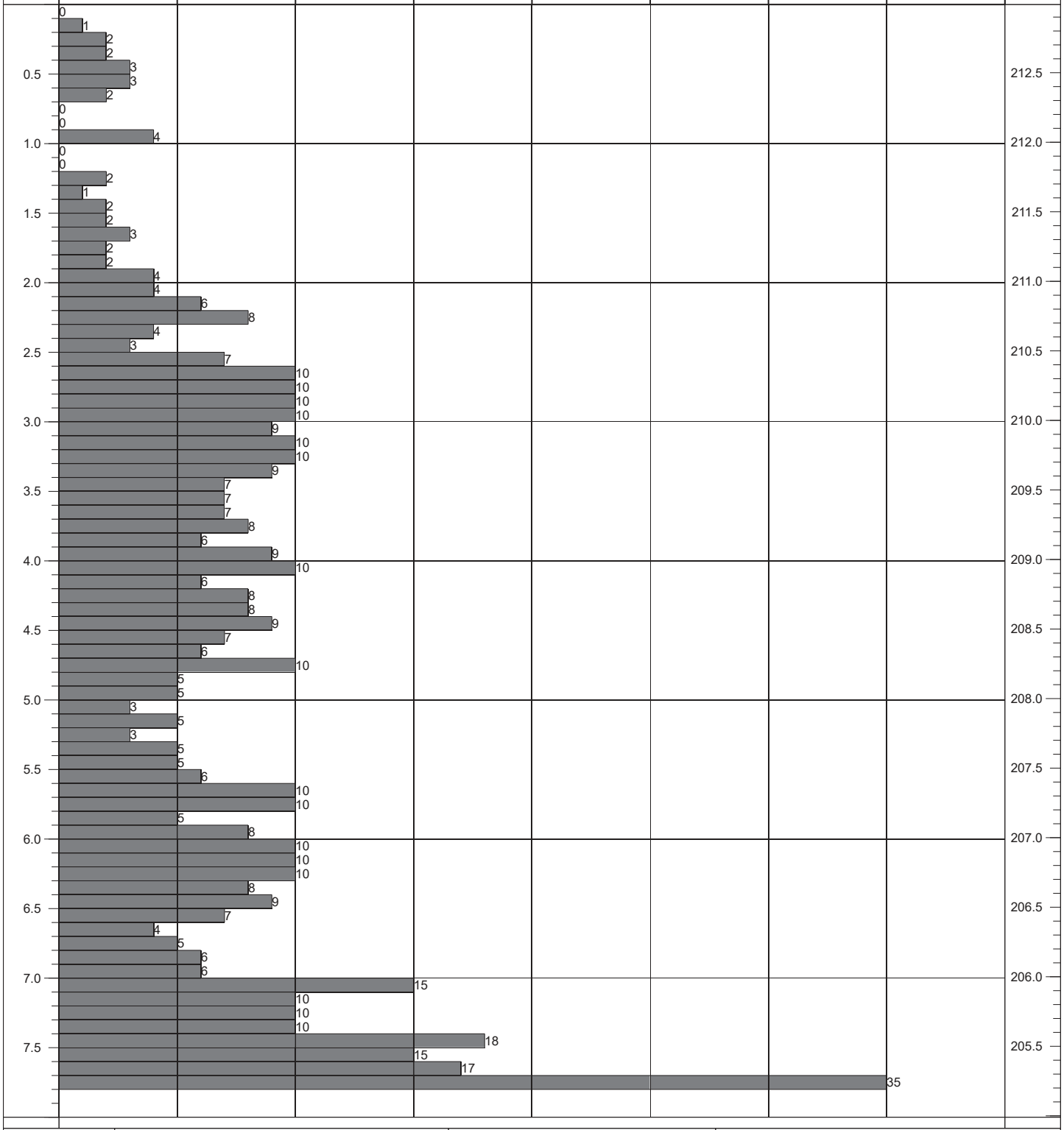
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP002**
Contract:	Blessington - Phase 3	Easting:	697868.918	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715371.255	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.78	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



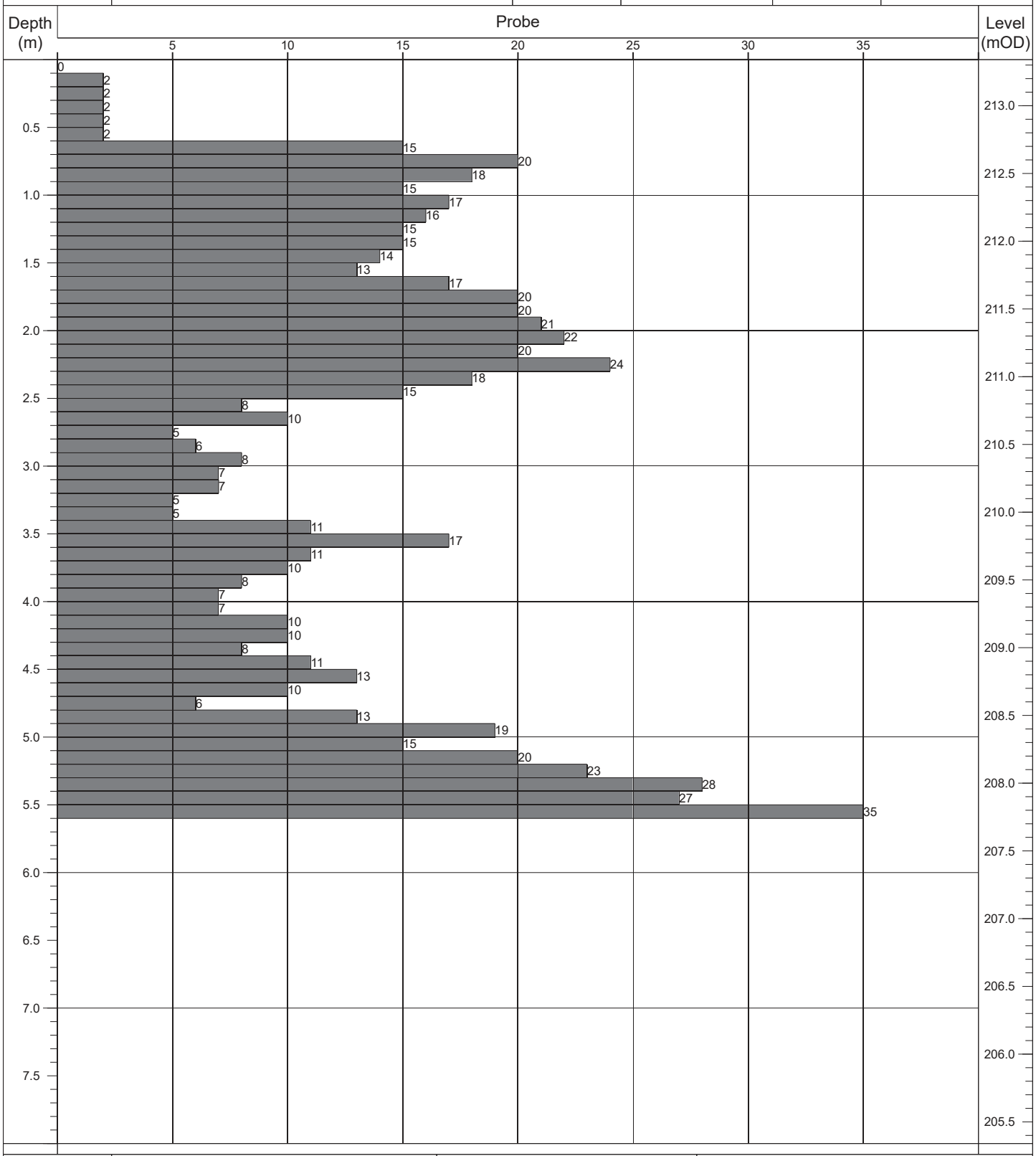
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP003**
Contract:	Blessington - Phase 3	Easting:	697880.436	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715382.904	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.99	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



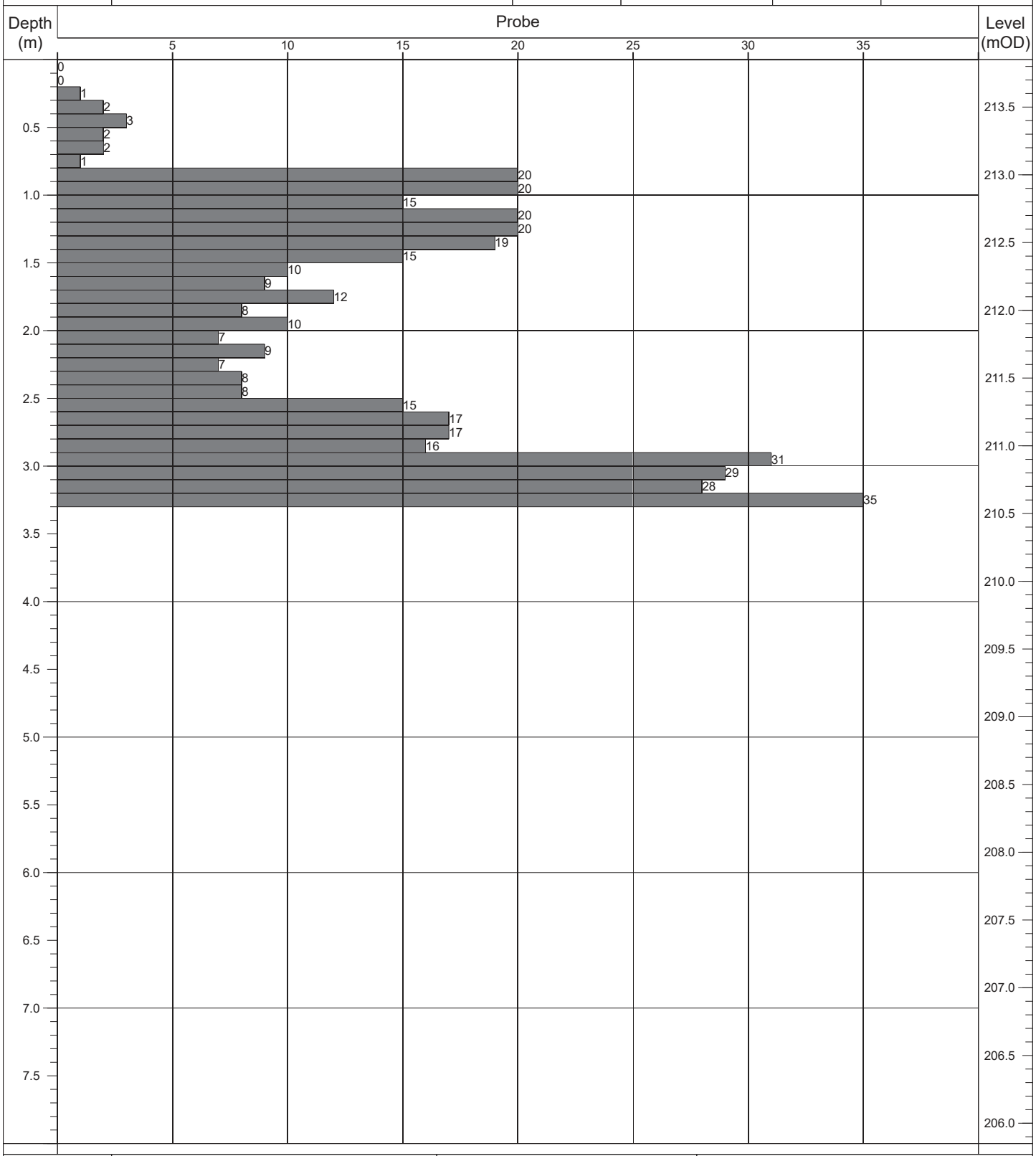
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
7.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP004**
Contract:	Blessington - Phase 3	Easting:	697876.531	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715378.946	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.34	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



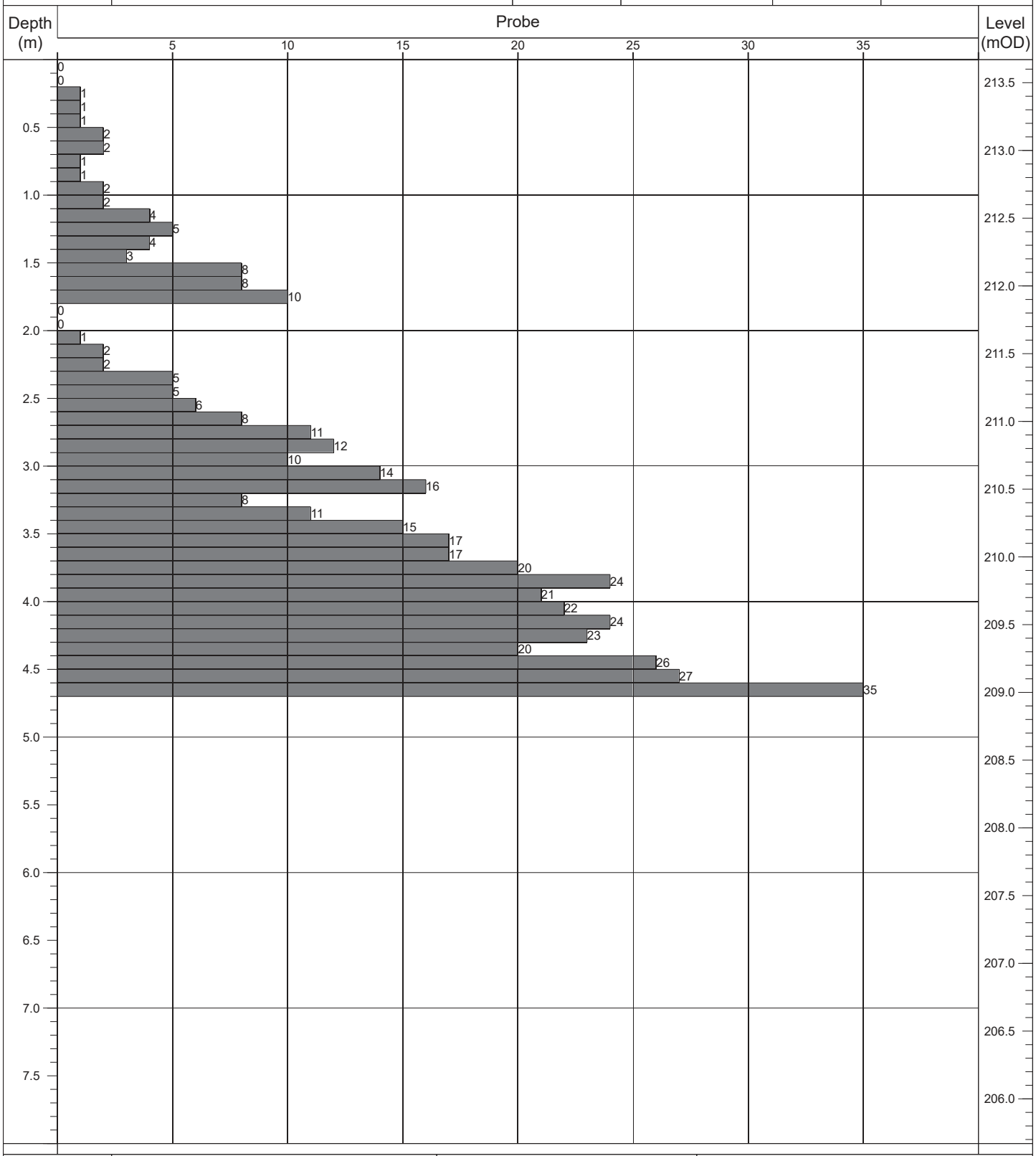
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP005**
Contract:	Blessington - Phase 3	Easting:	697855.366	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715357.810	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.85	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



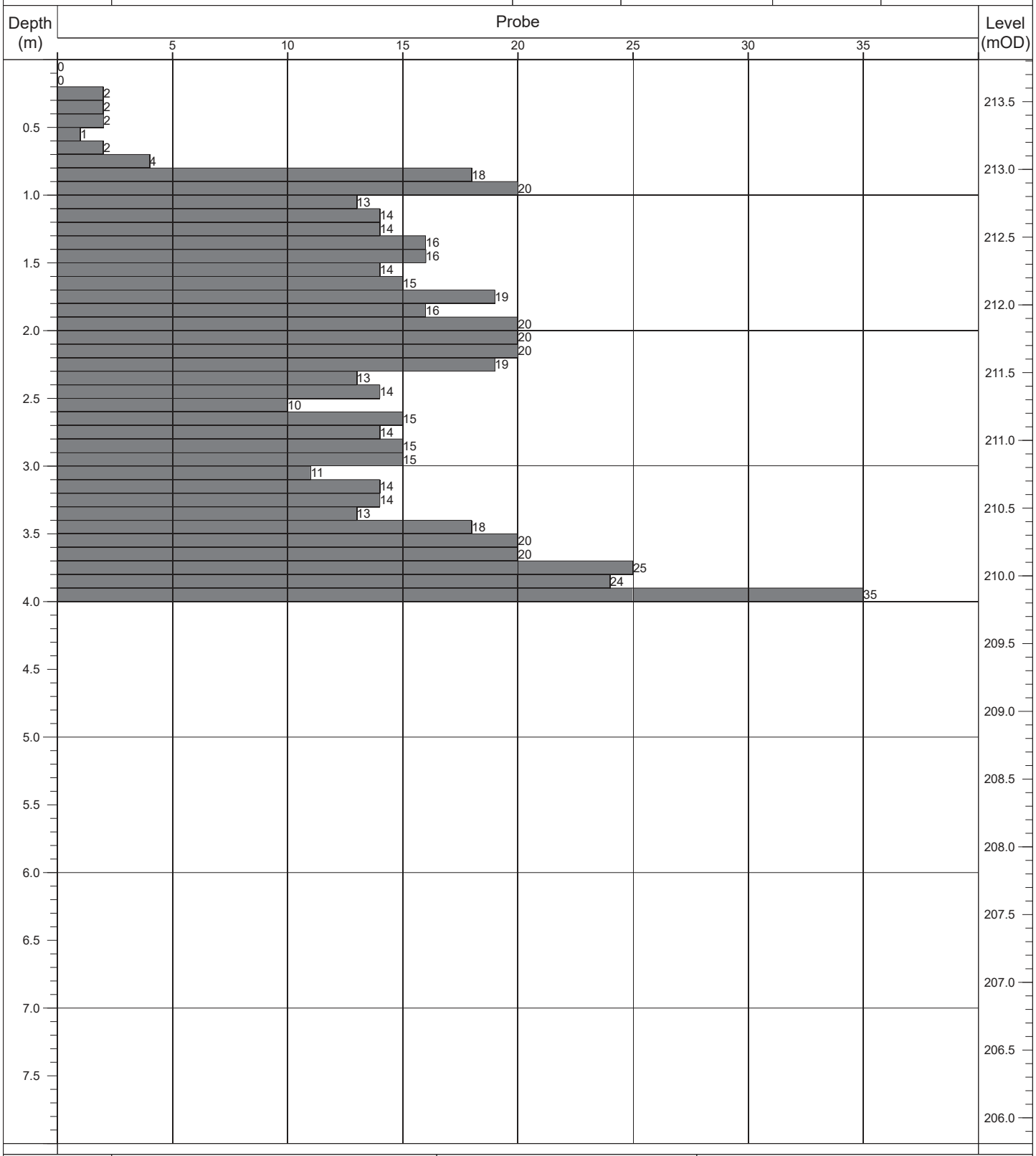
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP006**
Contract:	Blessington - Phase 3	Easting:	697851.154	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715353.777	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.67	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



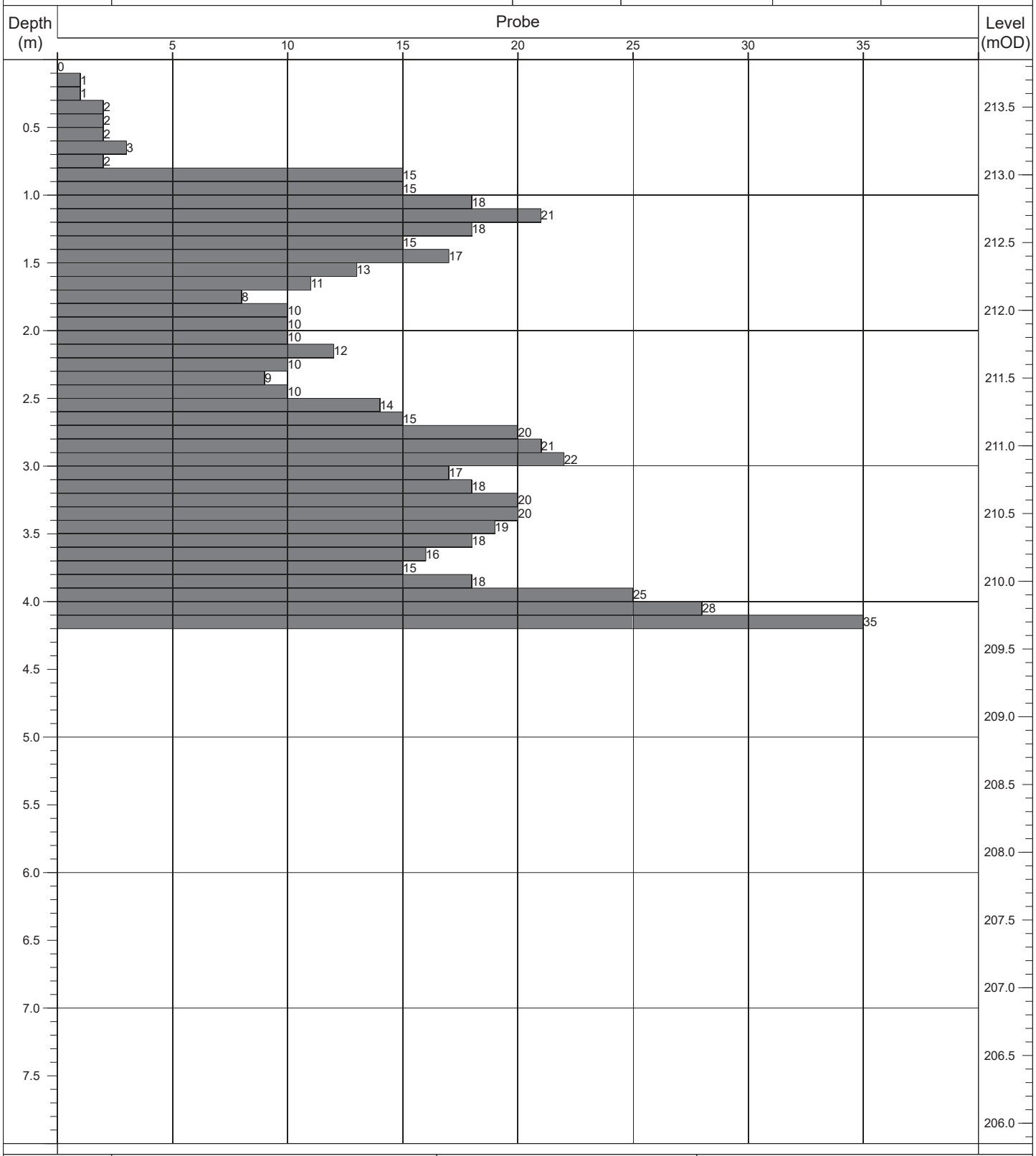
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP007
Contract:	Blessington - Phase 3	Easting:	697863.125	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715365.320	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.81	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



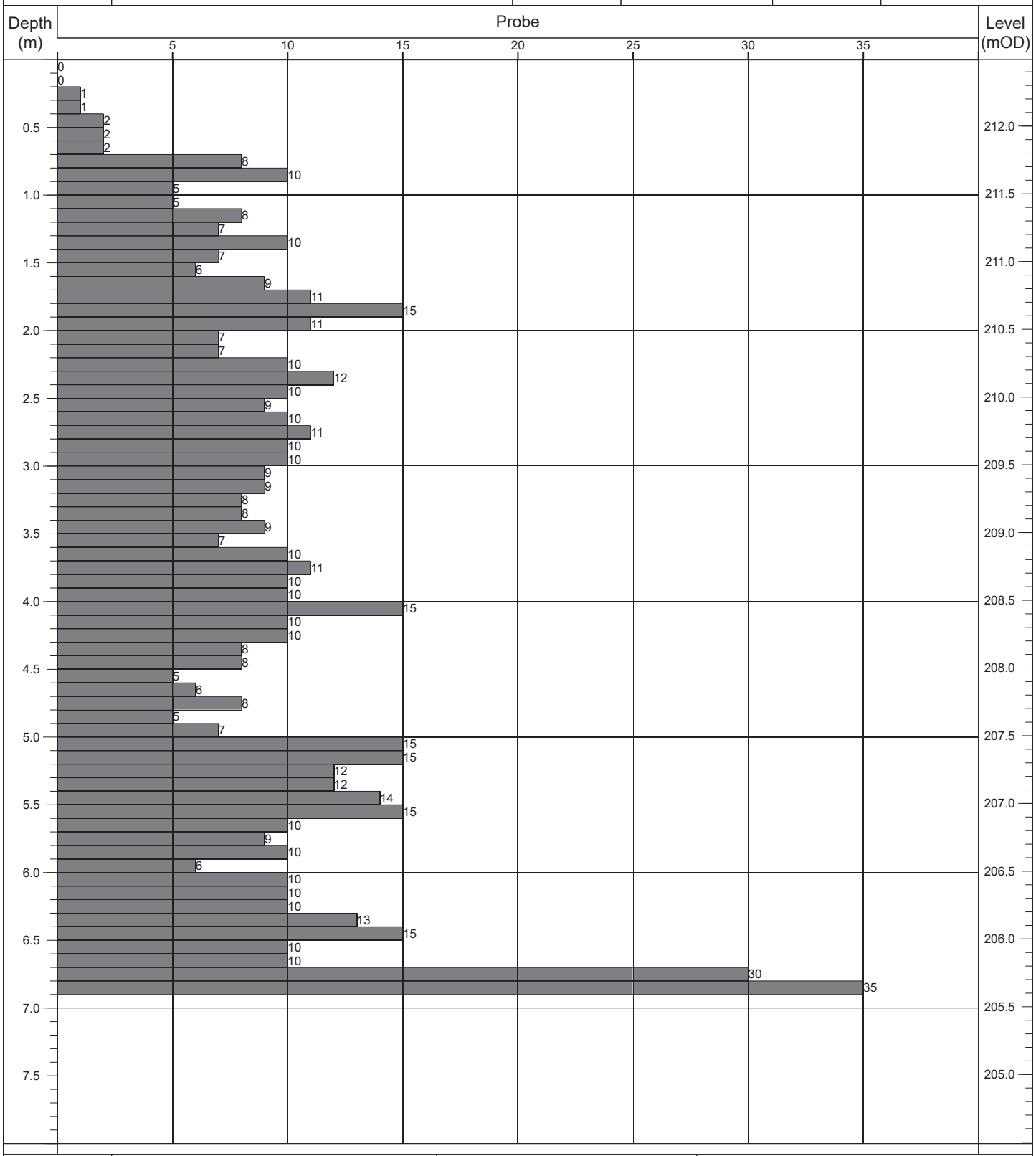
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP008**
Contract:	Blessington - Phase 3	Easting:	697859.203	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715361.375	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.85	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



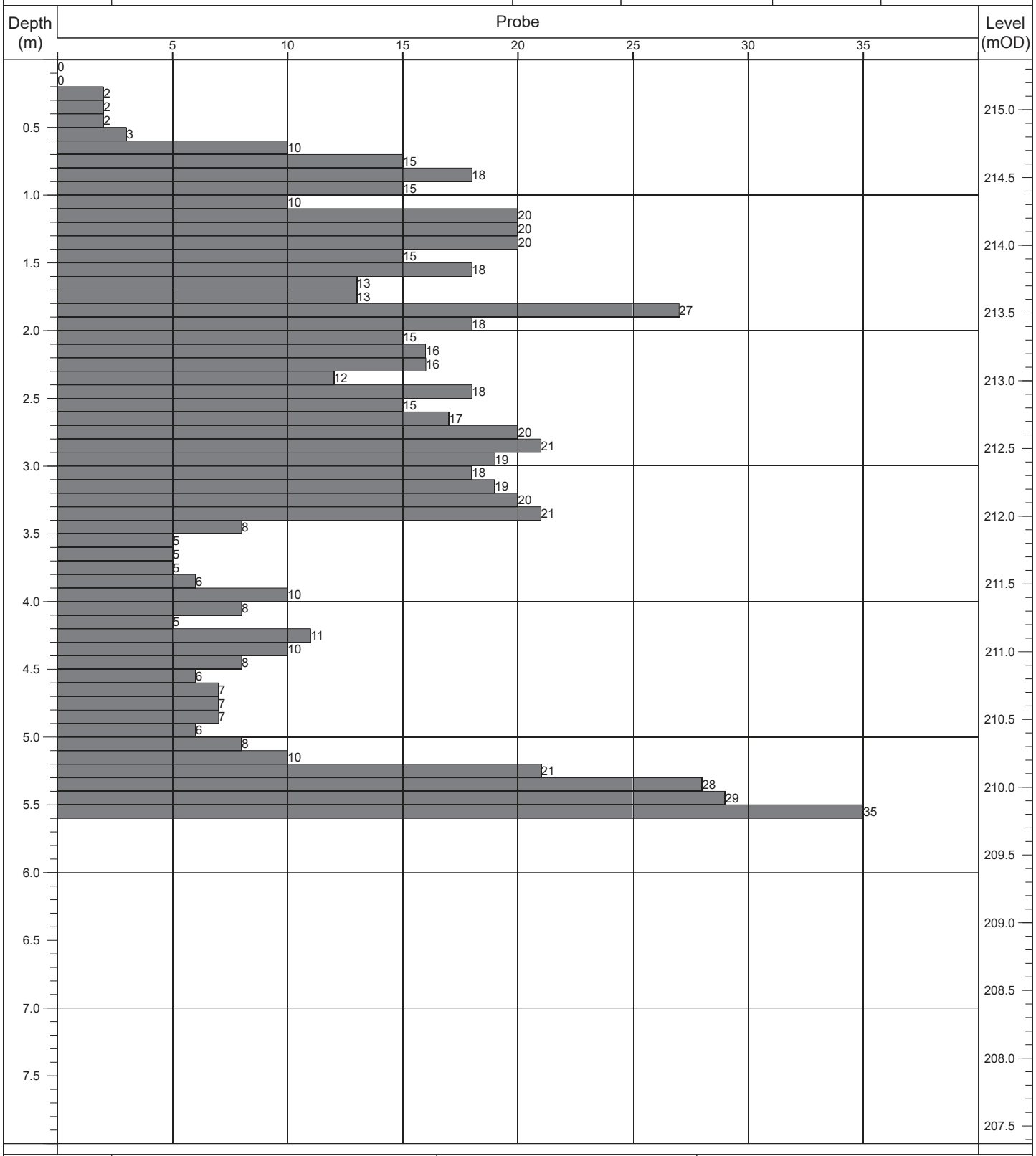
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP009
Contract:	Blessington - Phase 3	Easting:	697885.470	Date Started:	11/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715389.070	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	212.49	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



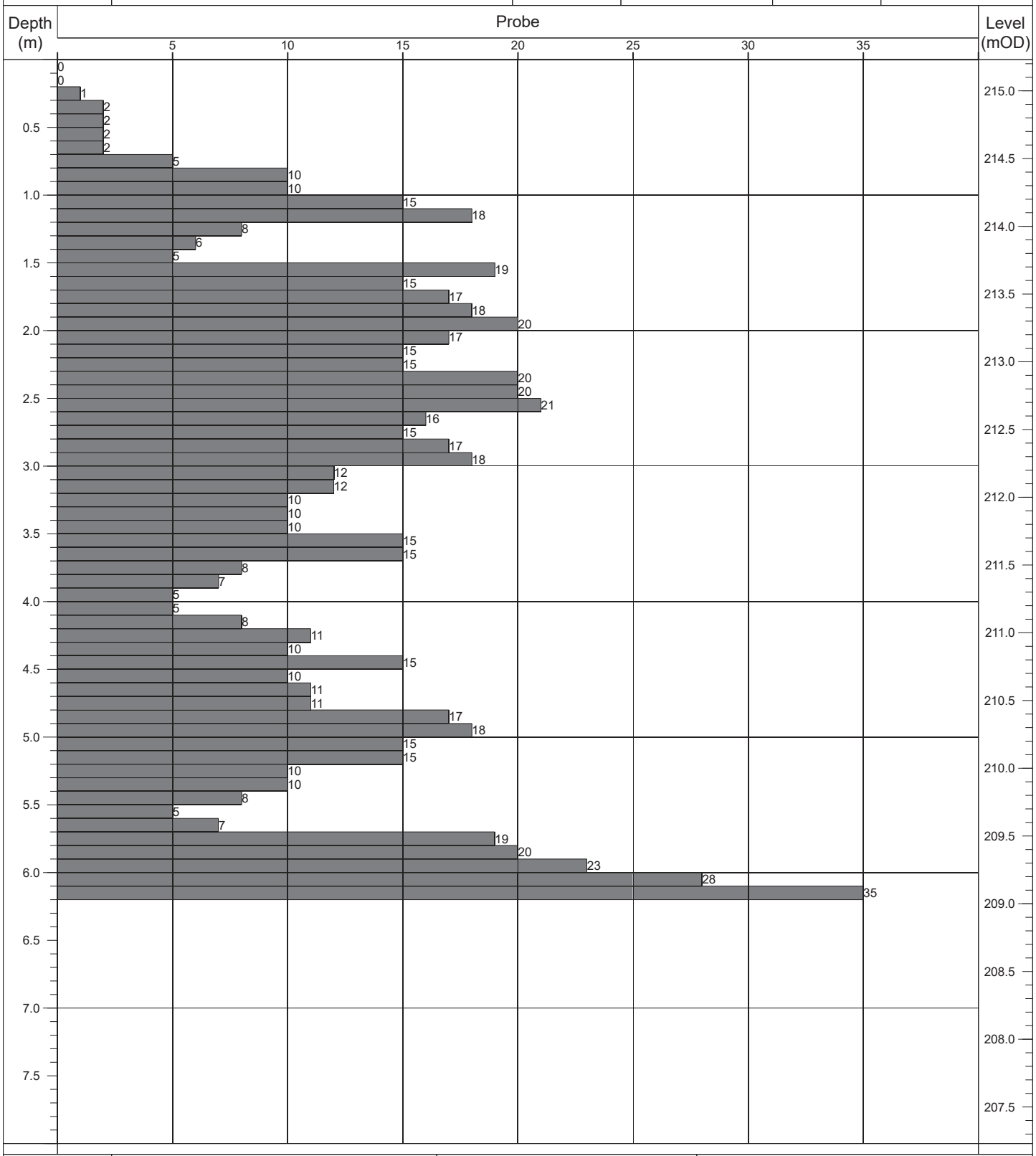
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP010**
Contract:	Blessington - Phase 3	Easting:	697848.346	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715402.662	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.37	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



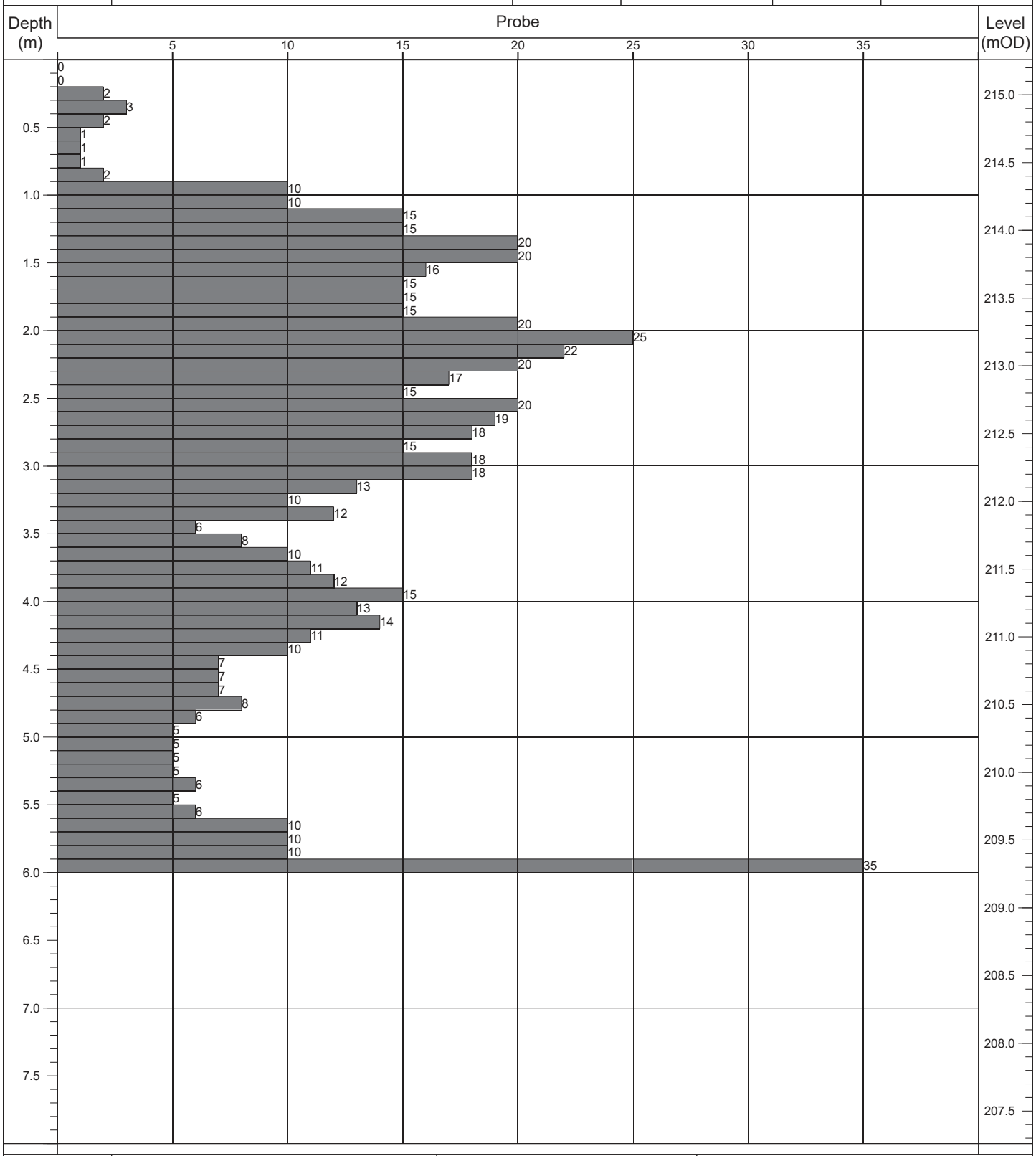
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP011
Contract:	Blessington - Phase 3	Easting:	697853.868	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715408.623	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.23	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



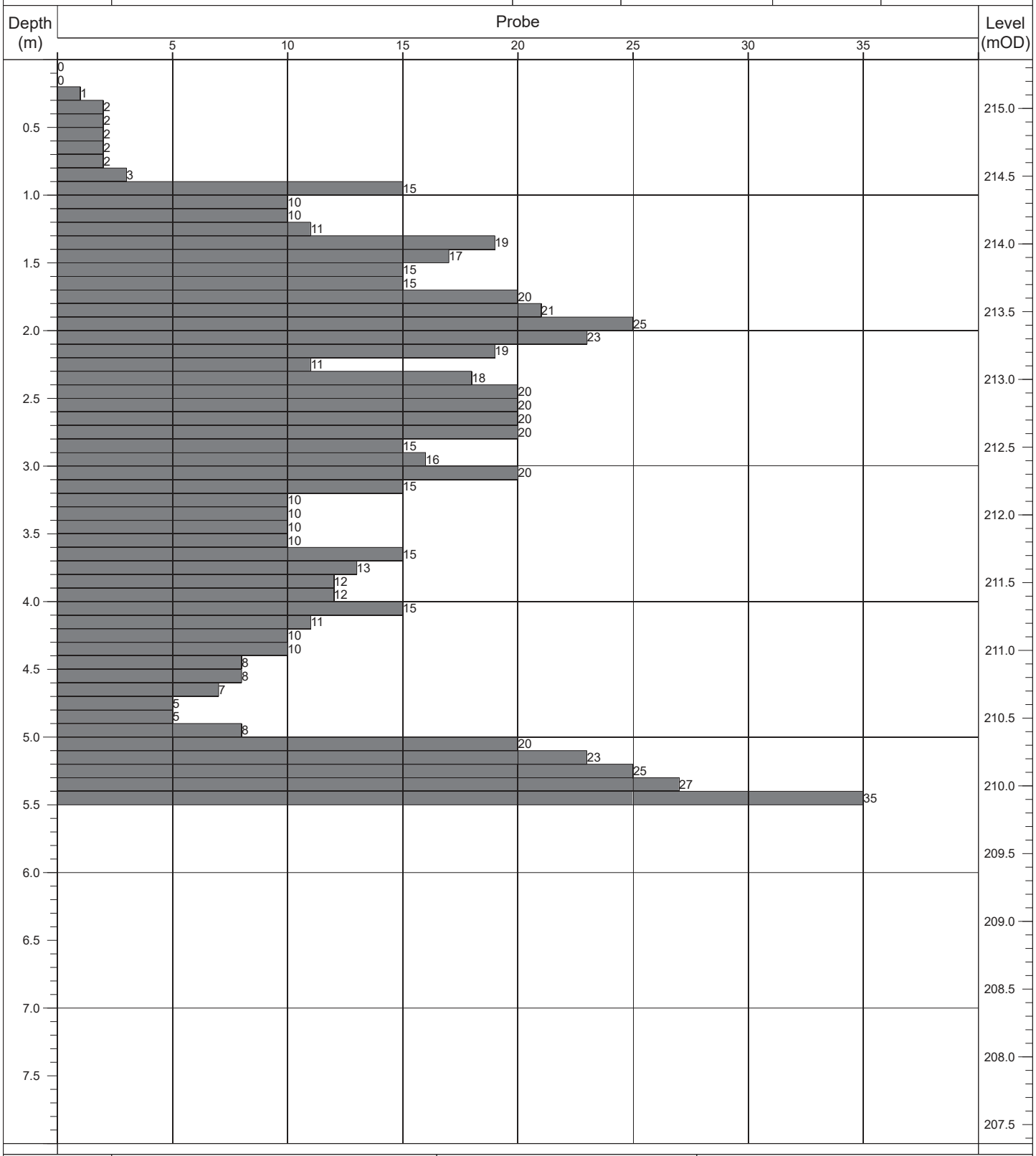
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP012**
Contract:	Blessington - Phase 3	Easting:	697839.907	Date Started:	11/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715395.049	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.26	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



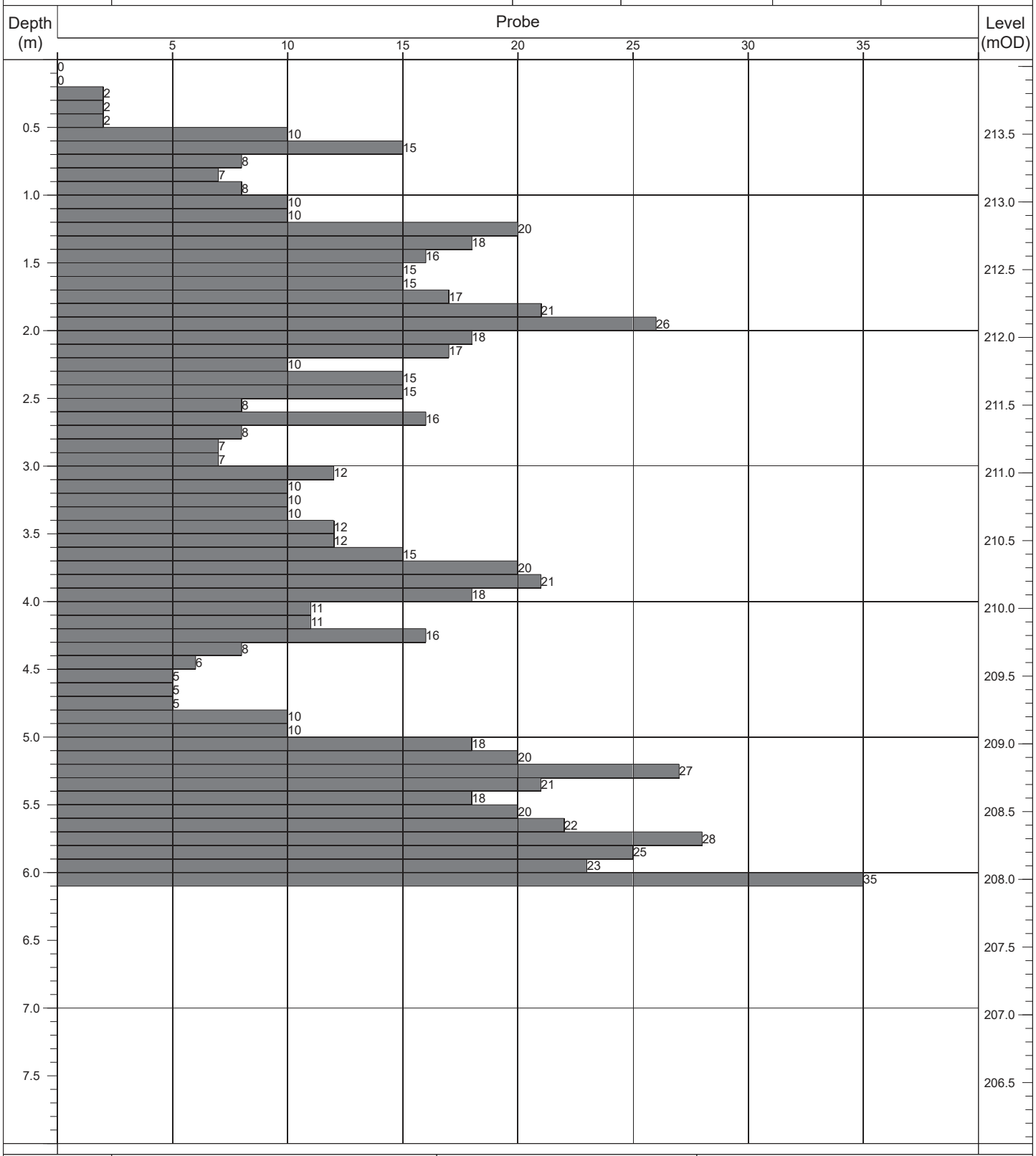
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP013
Contract:	Blessington - Phase 3	Easting:	697843.907	Date Started:	11/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715398.975	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.36	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



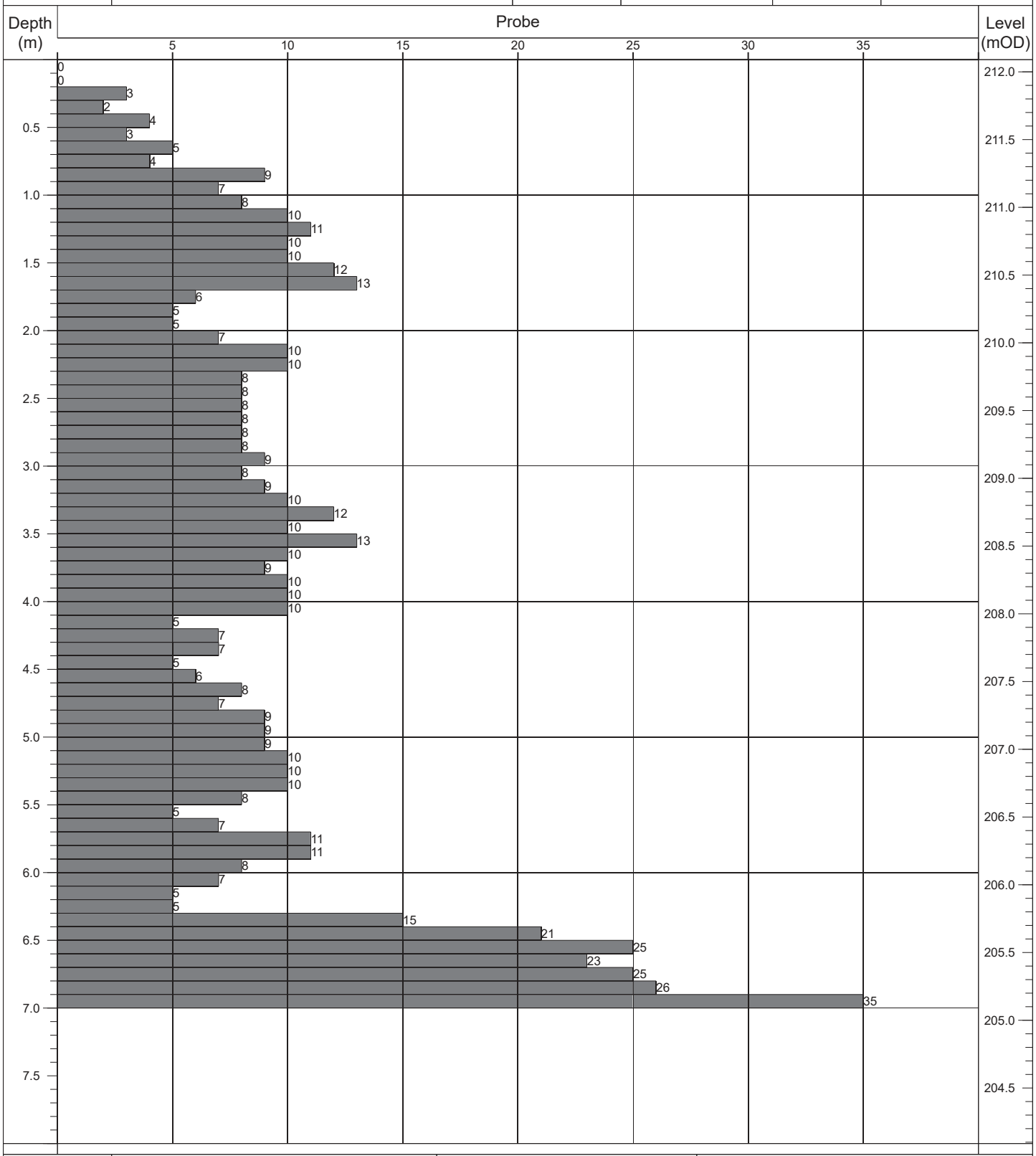
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP014
Contract:	Blessington - Phase 3	Easting:	697867.681	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715421.333	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	214.05	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



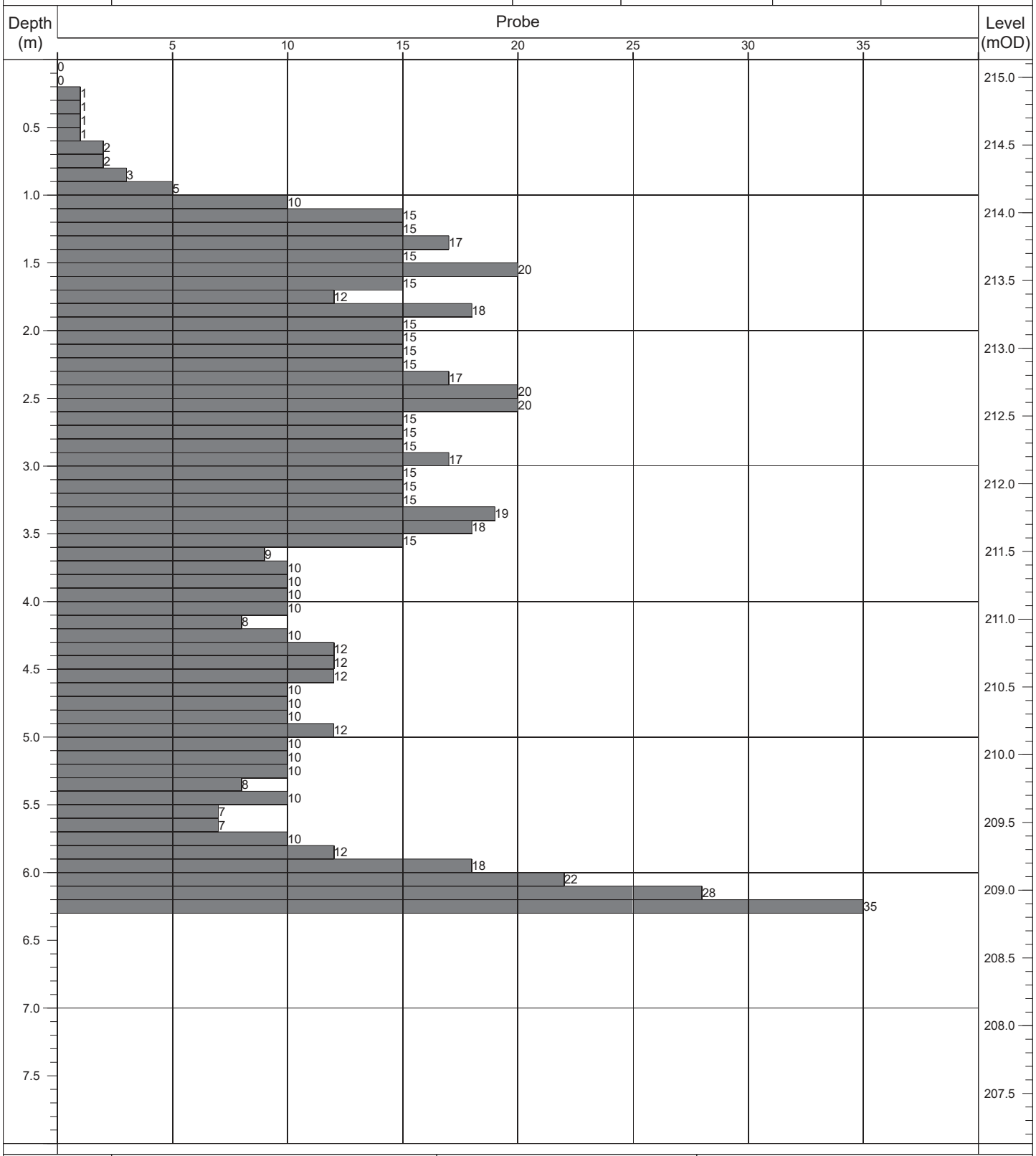
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP015**
Contract:	Blessington - Phase 3	Easting:	697889.644	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715393.472	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	212.09	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



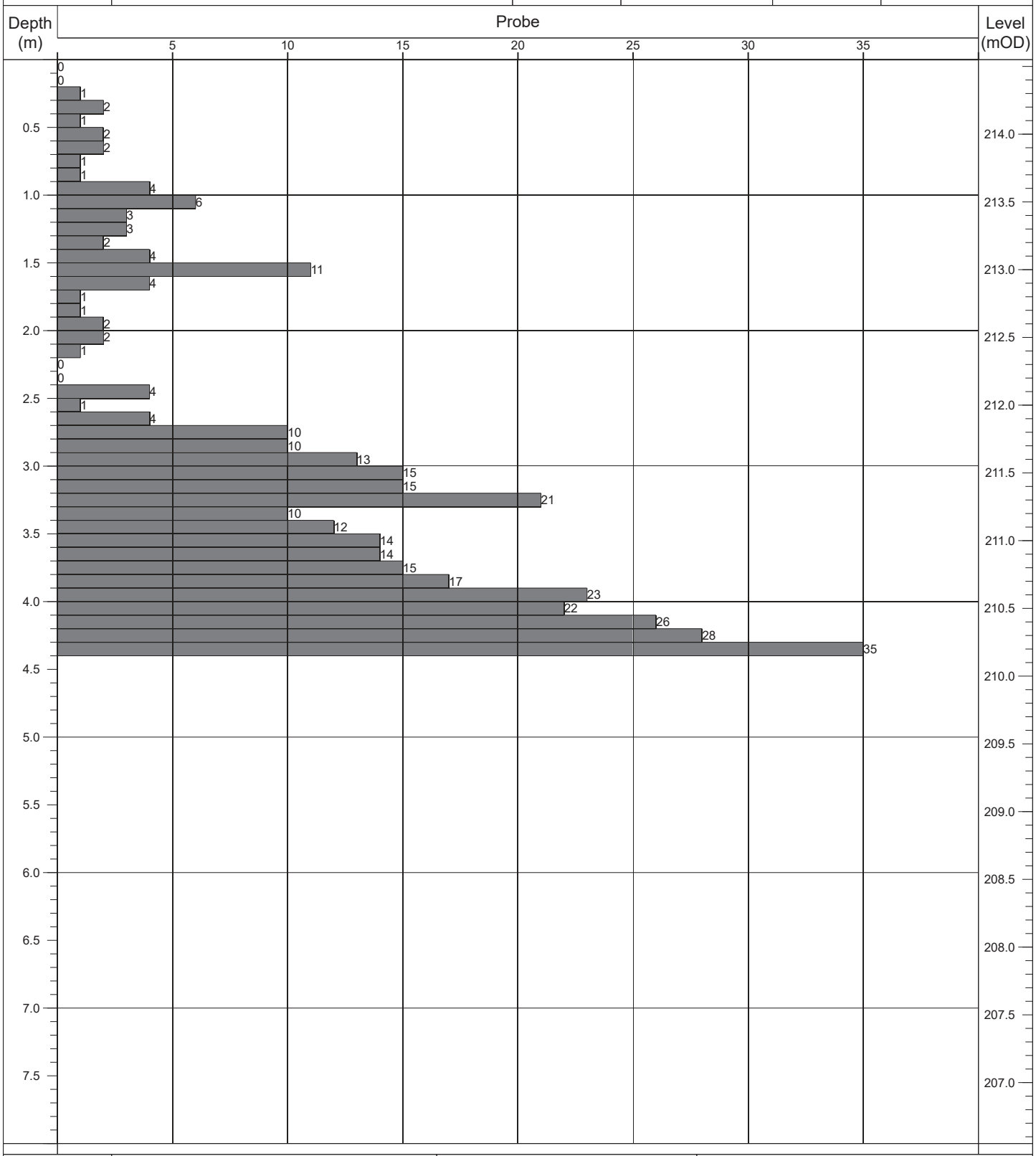
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
7.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP017**
Contract:	Blessington - Phase 3	Easting:	697857.529	Date Started:	11/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715412.072	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.13	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



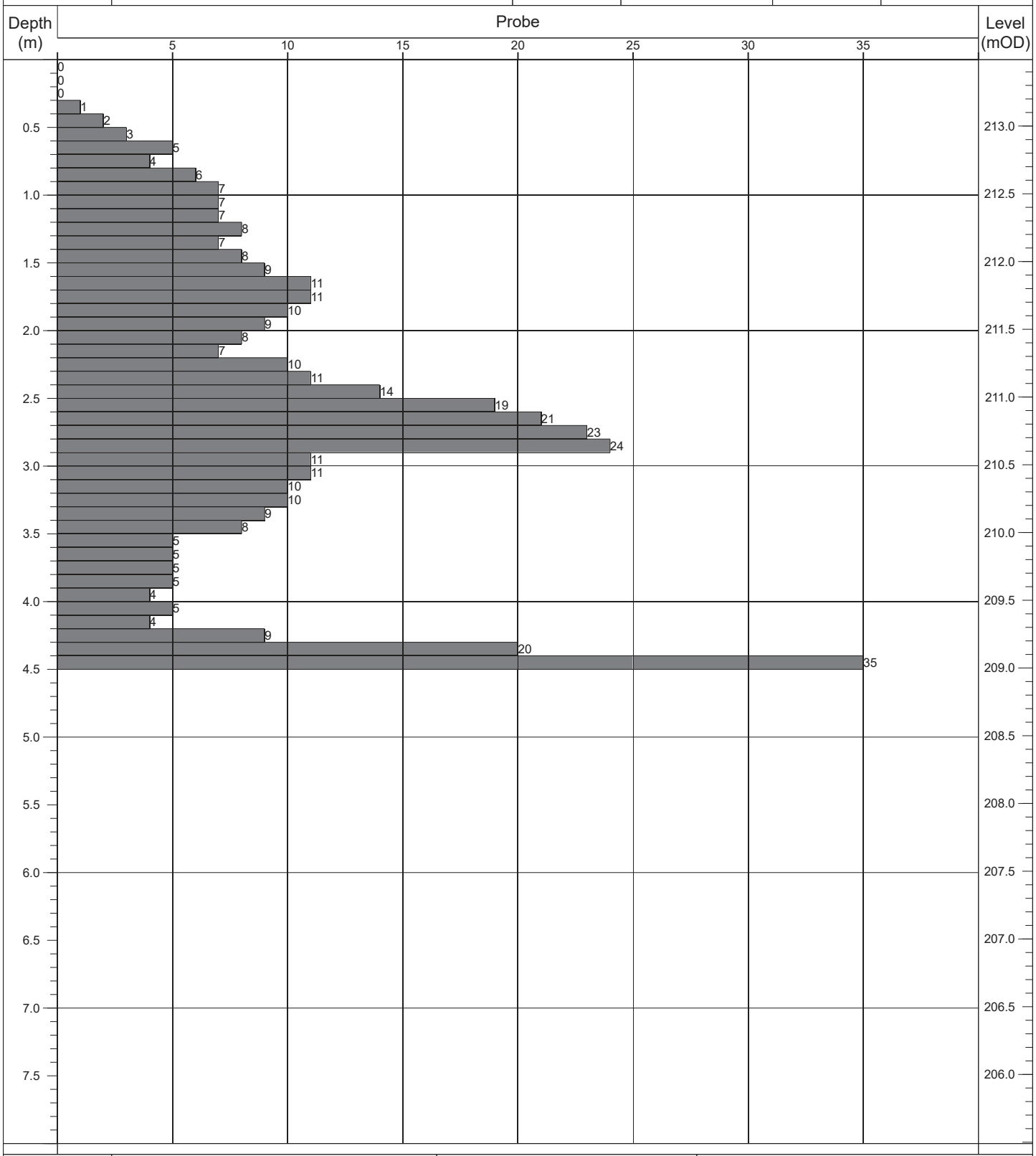
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP018
Contract:	Blessington - Phase 3	Easting:	697863.790	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715417.765	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.55	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



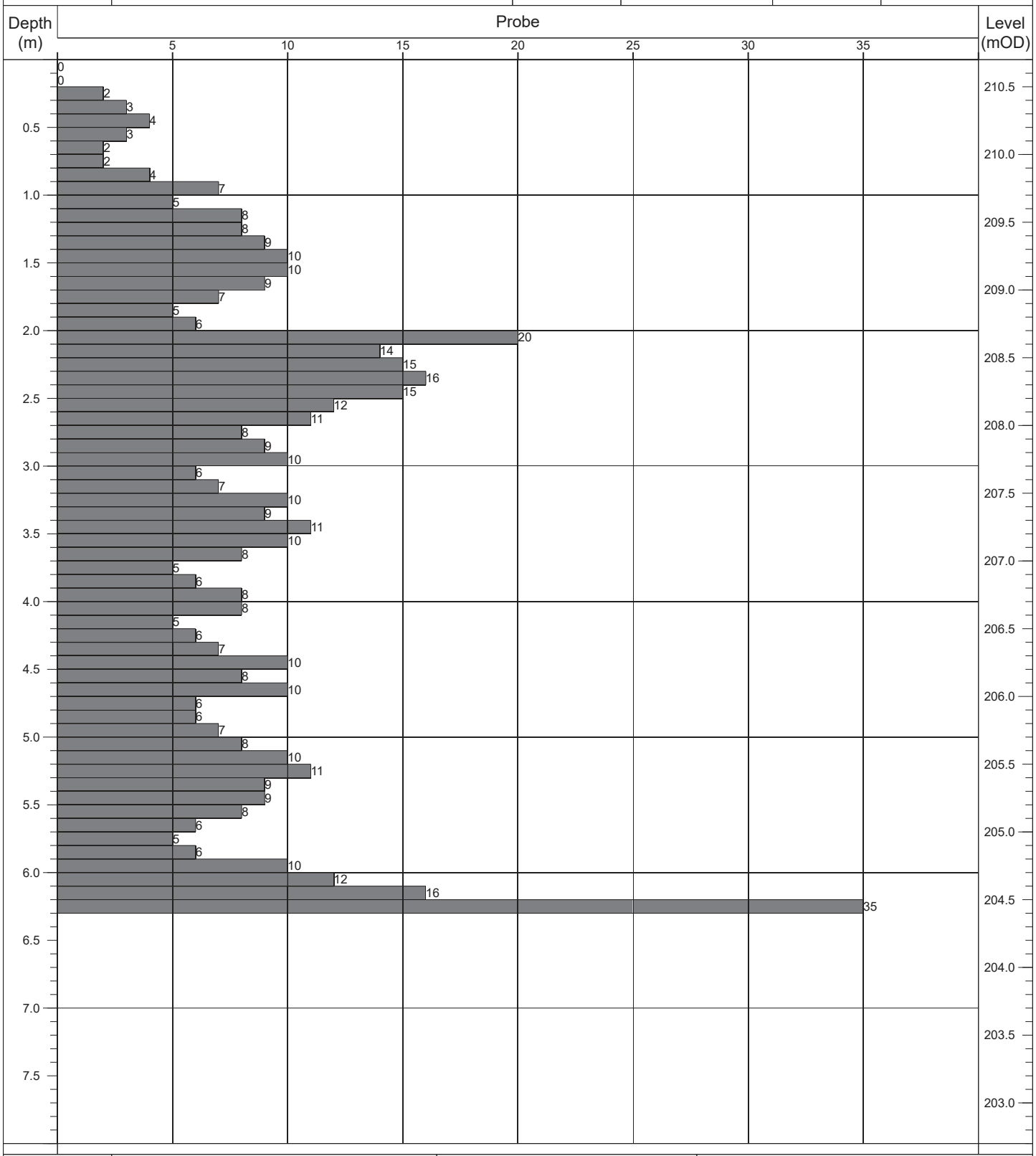
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP019**
Contract:	Blessington - Phase 3	Easting:	697845.419	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715348.157	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.49	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



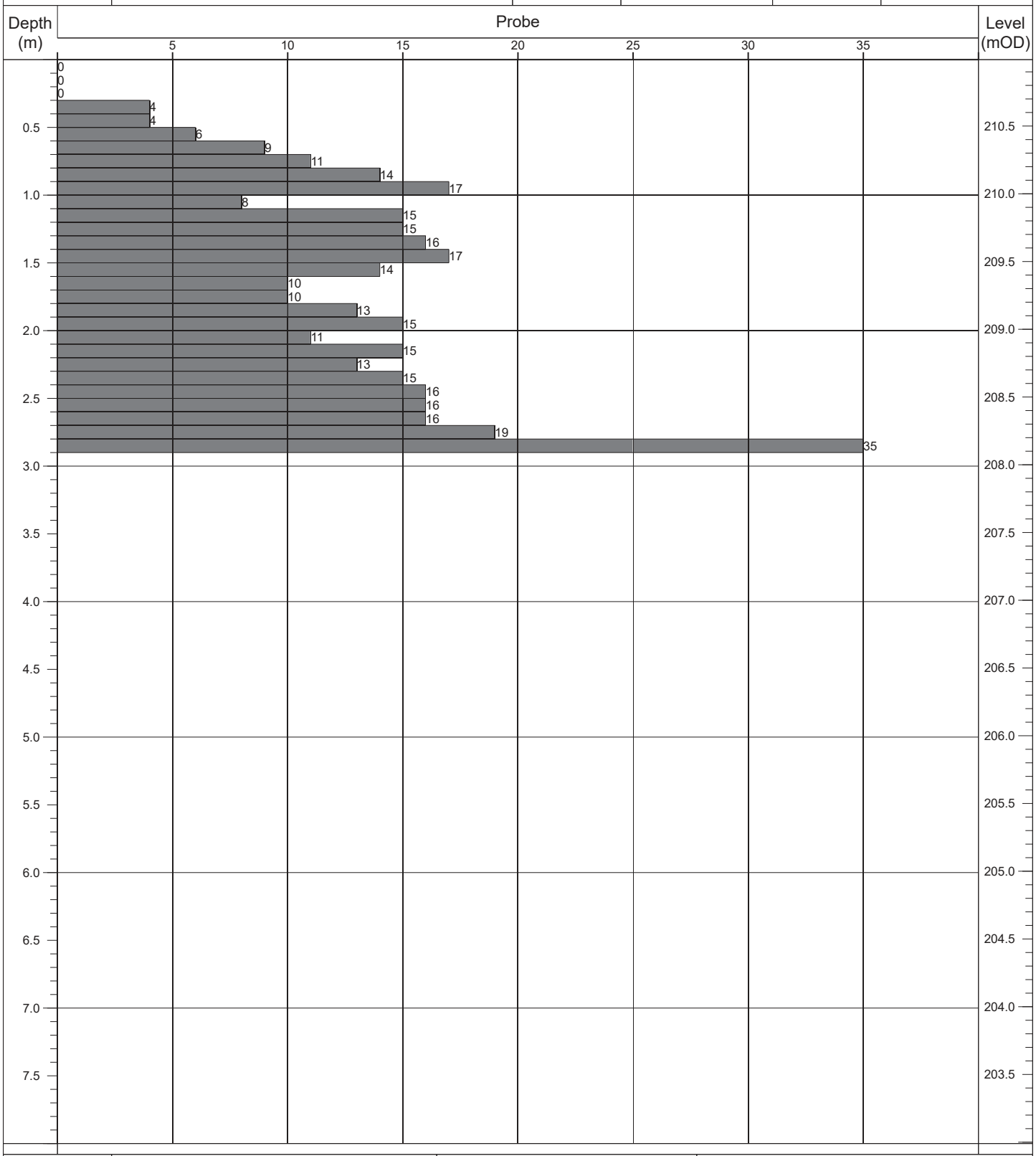
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP020**
Contract:	Blessington - Phase 3	Easting:	697900.271	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715339.282	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.70	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



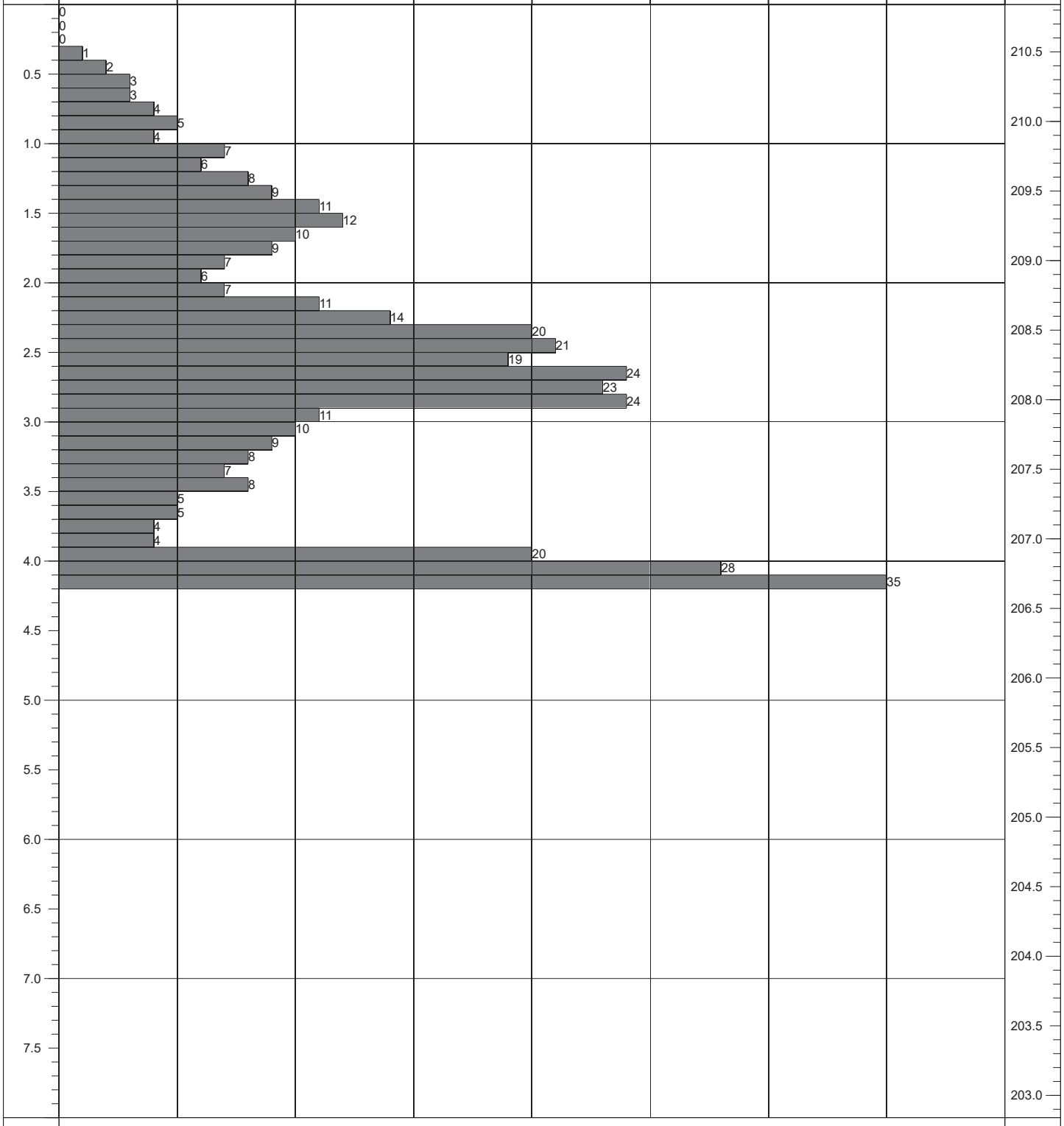
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP021
Contract:	Blessington - Phase 3	Easting:	697896.968	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715343.330	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.99	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



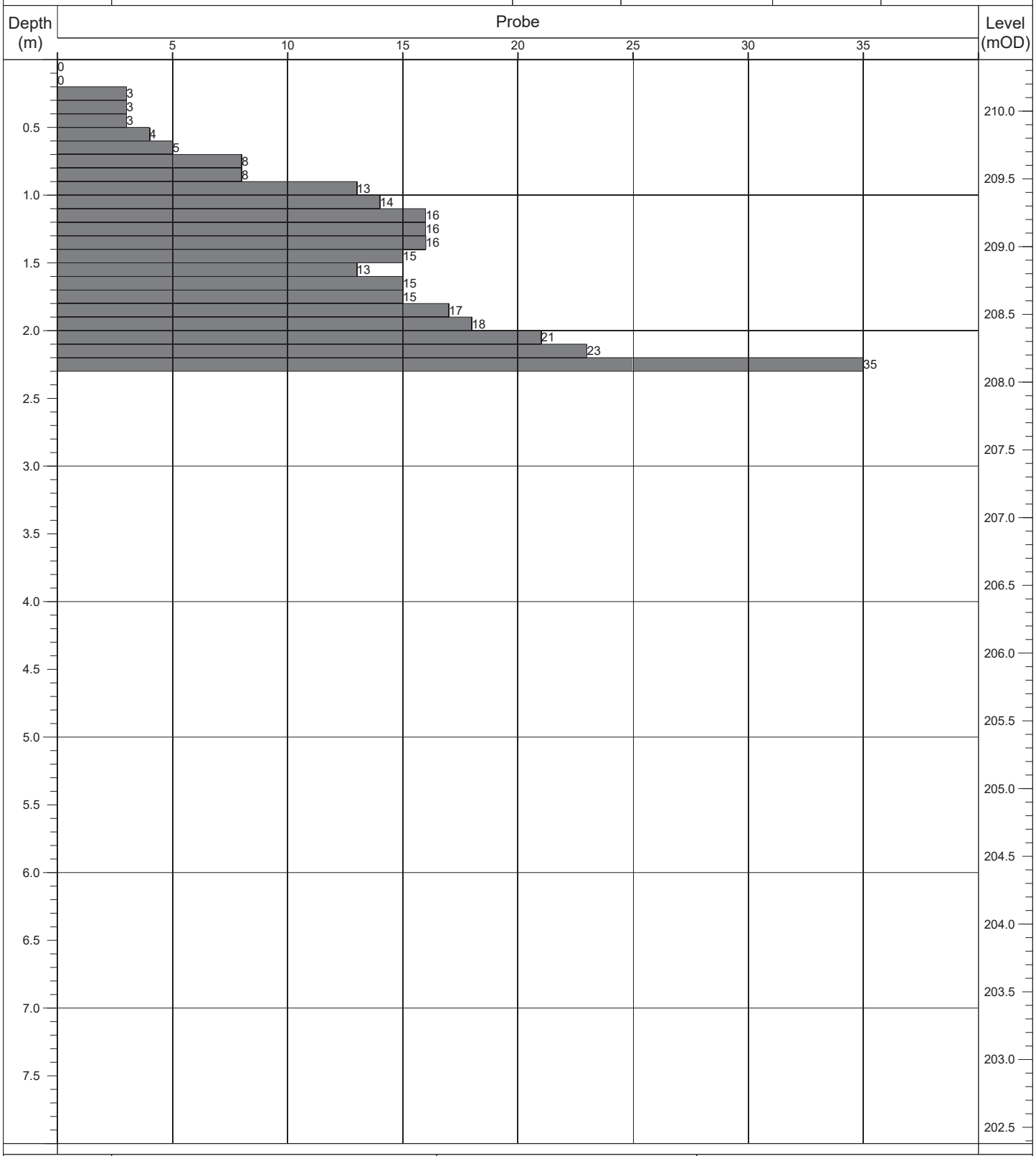
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP022**
Contract:	Blessington - Phase 3	Easting:	697907.933	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715318.578	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.84	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



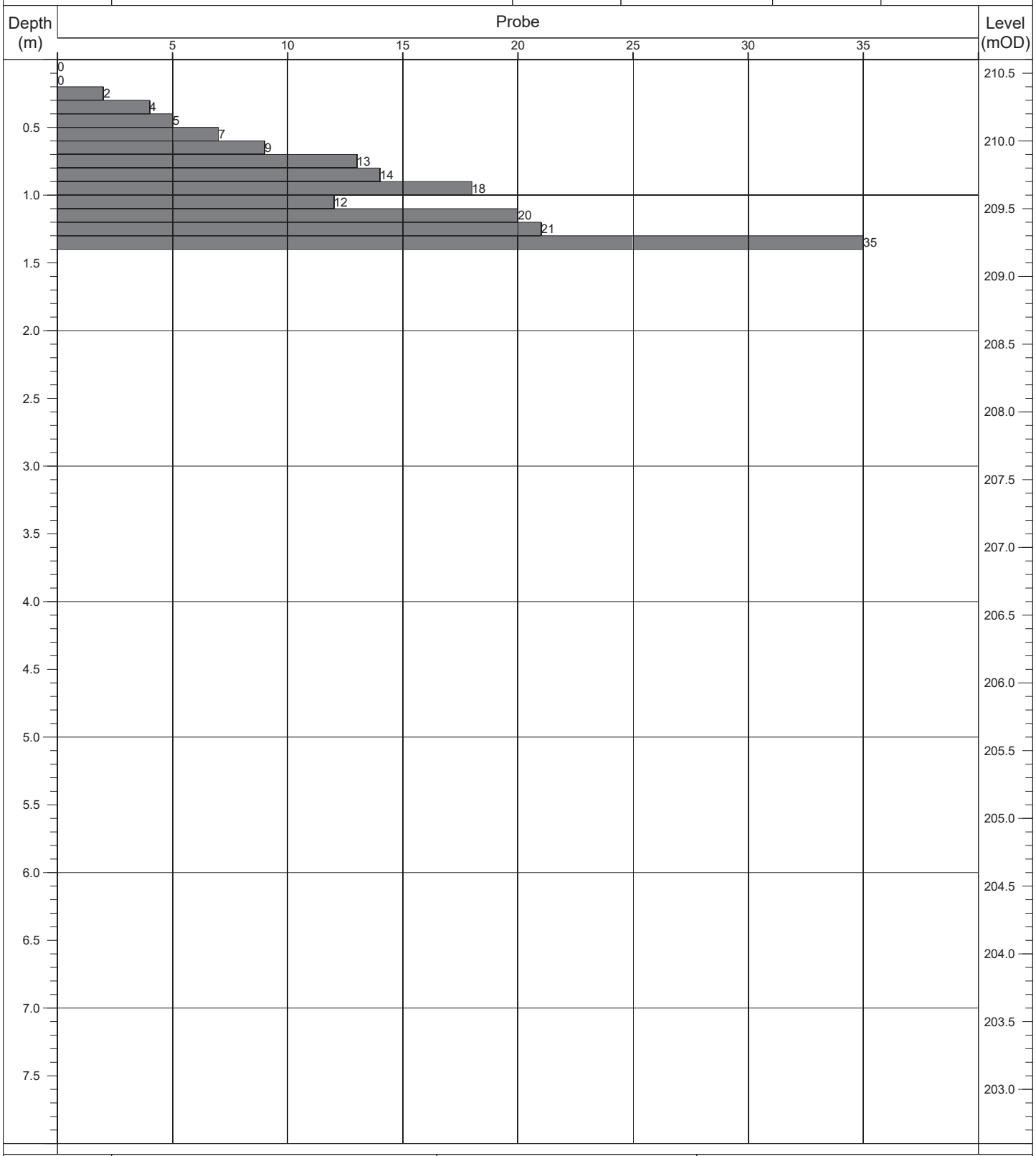
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP023**
Contract:	Blessington - Phase 3	Easting:	697907.851	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715328.807	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.38	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



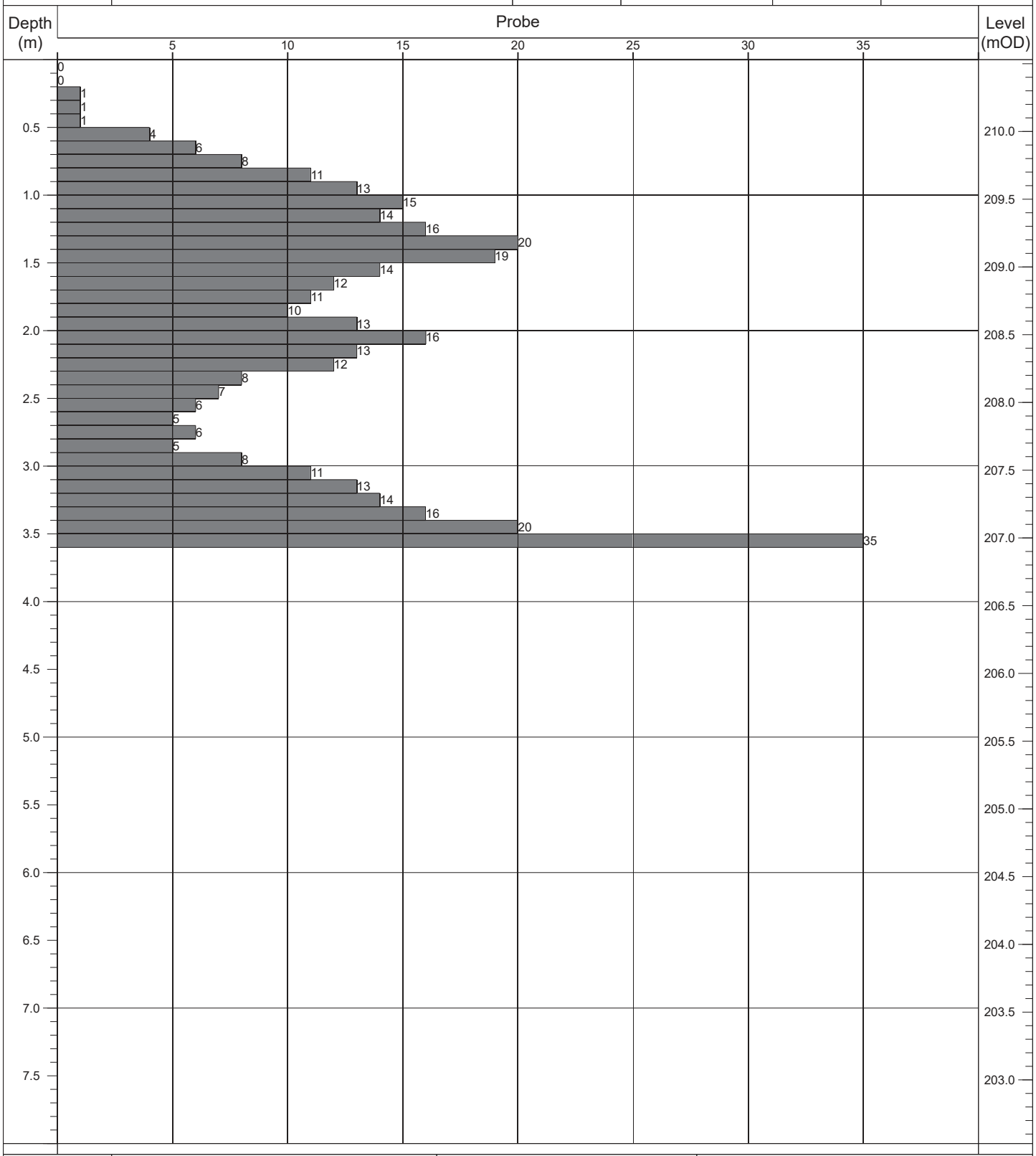
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP024
Contract:	Blessington - Phase 3	Easting:	697819.824	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715275.209	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.60	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



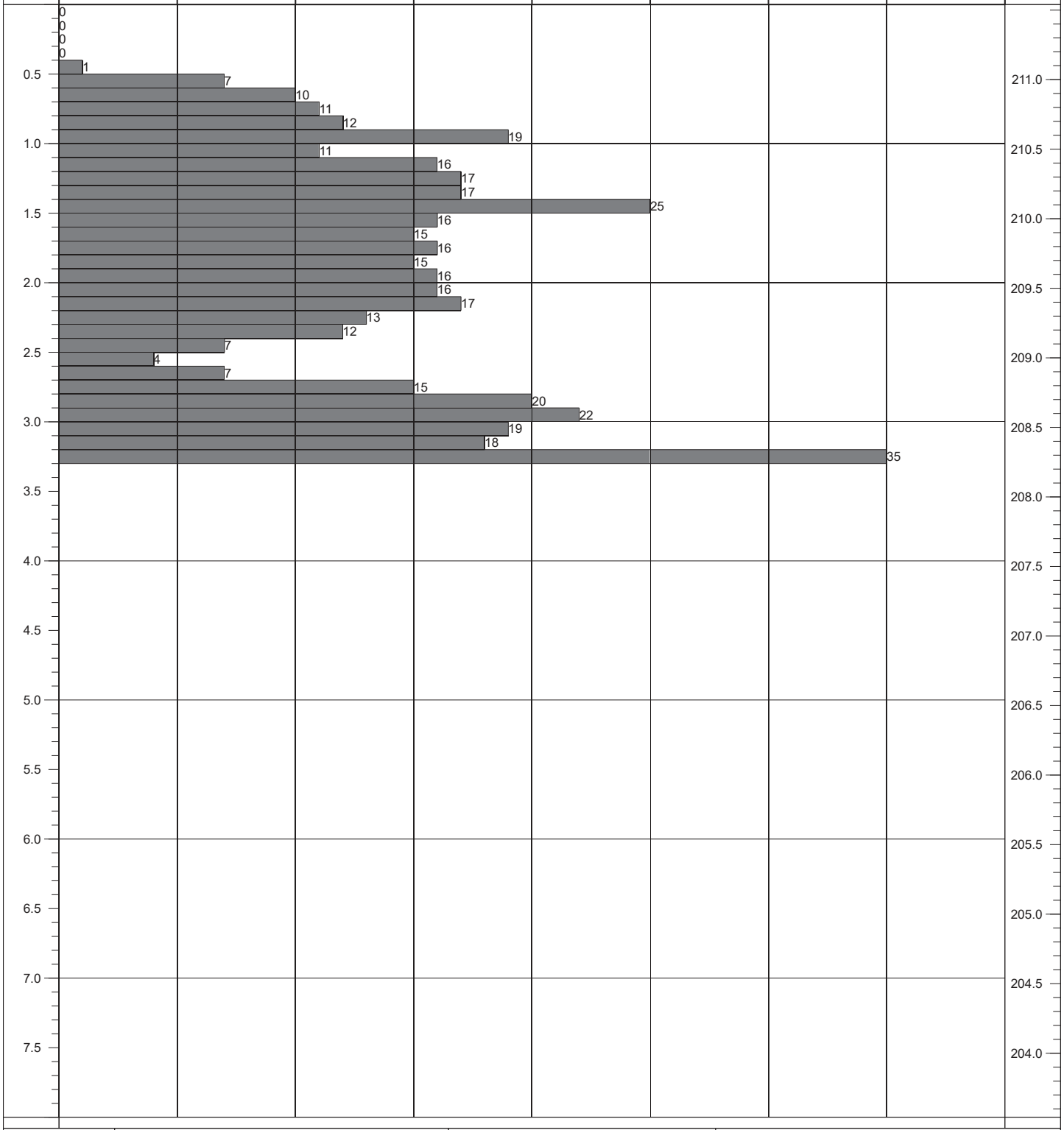
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP025**
Contract:	Blessington - Phase 3	Easting:	697823.488	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715271.276	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.53	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



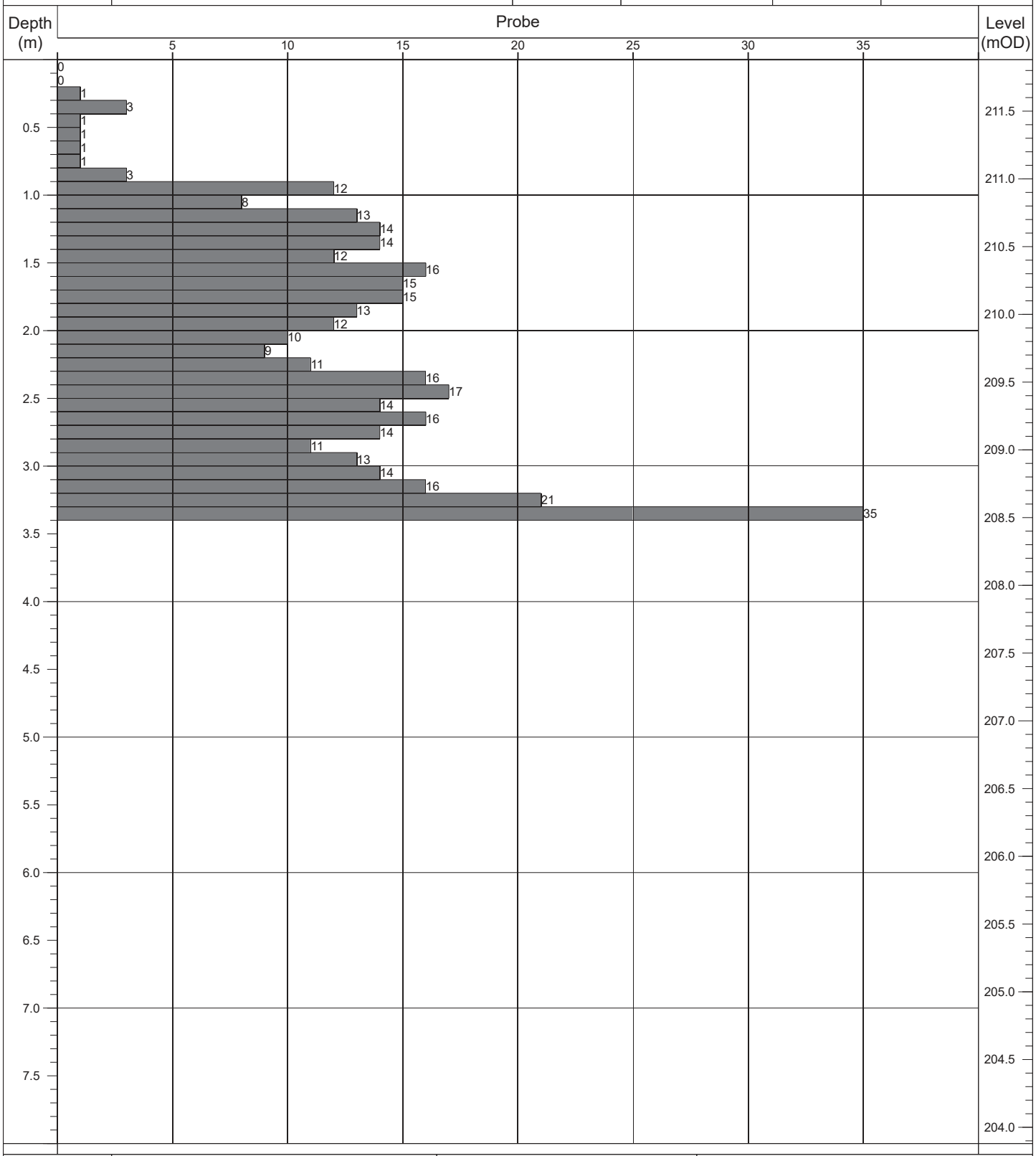
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP026
Contract:	Blessington - Phase 3	Easting:	697890.904	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715348.910	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.54	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



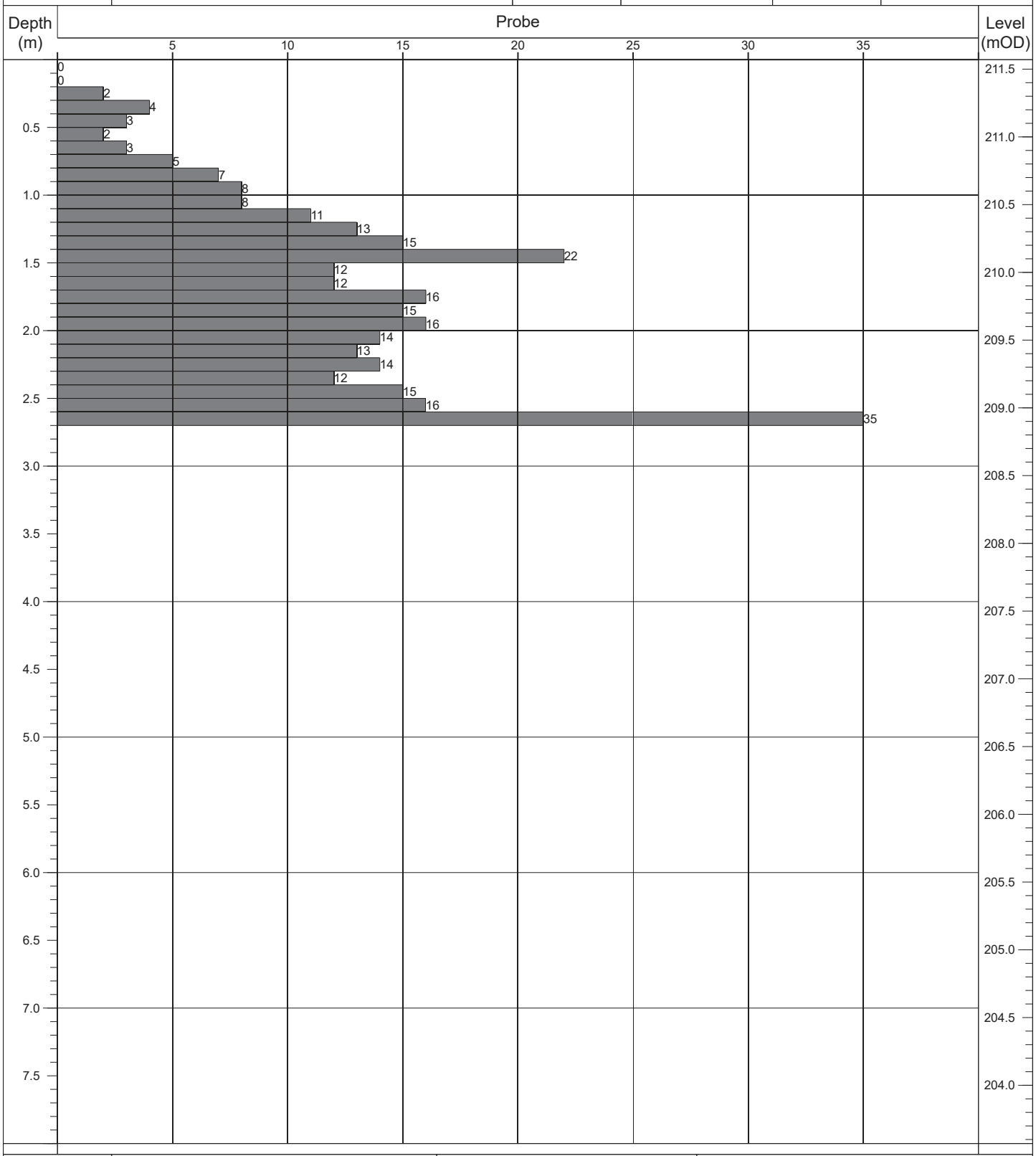
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP027
Contract:	Blessington - Phase 3	Easting:	697887.323	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715352.928	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.88	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



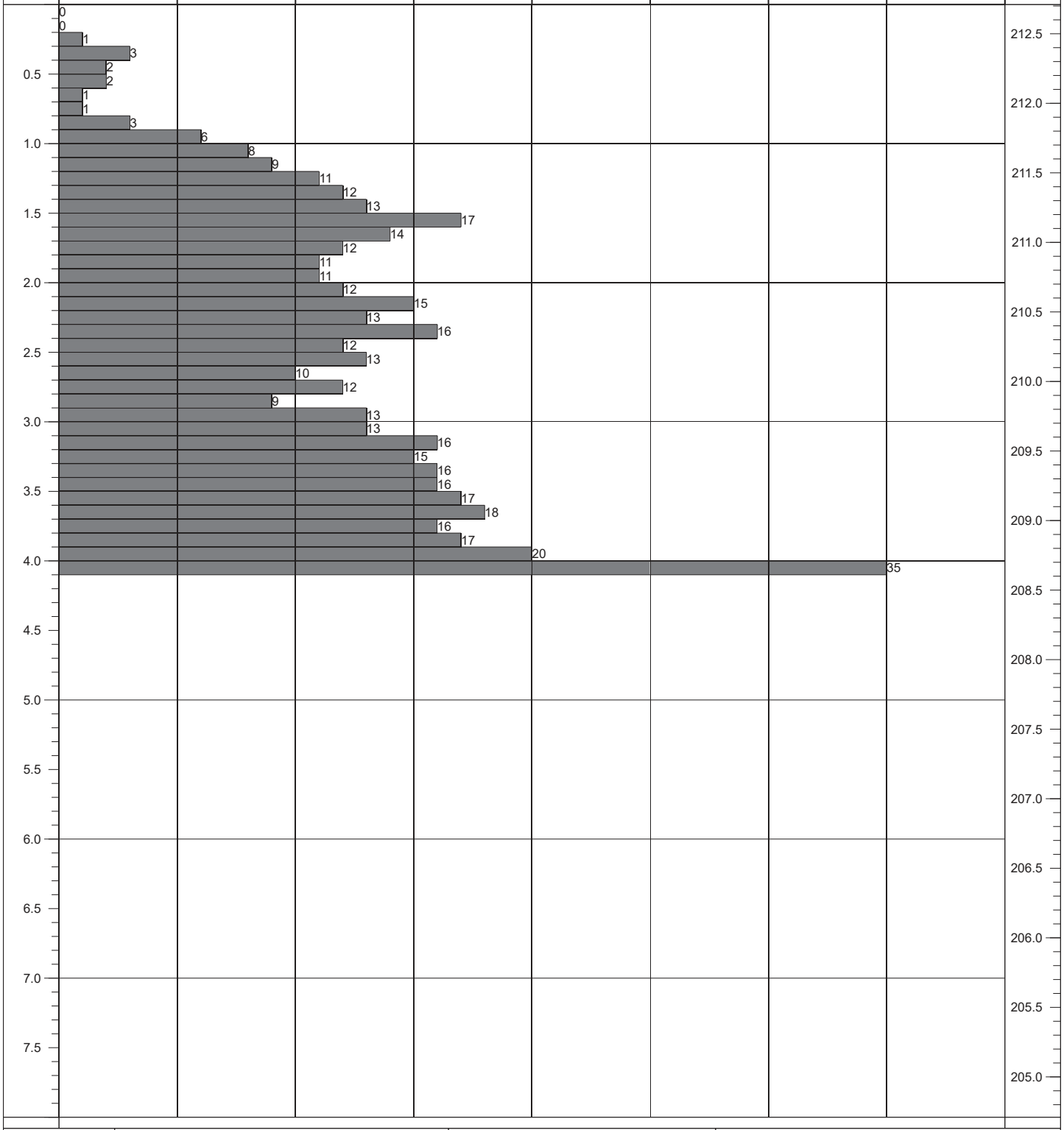
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP028
Contract:	Blessington - Phase 3	Easting:	697900.385	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715307.532	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.57	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



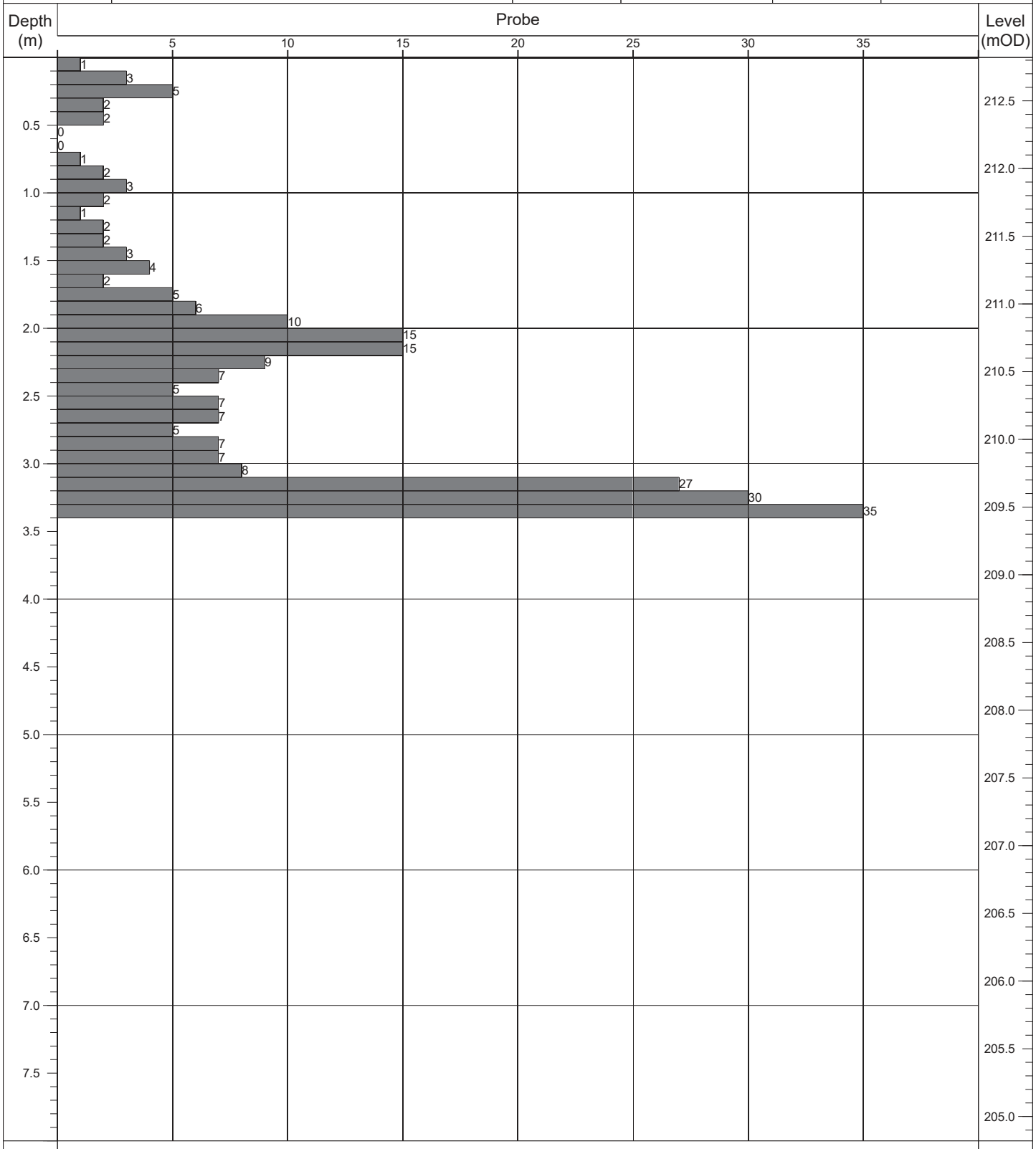
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP029**
Contract:	Blessington - Phase 3	Easting:	697868.018	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715324.722	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.71	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



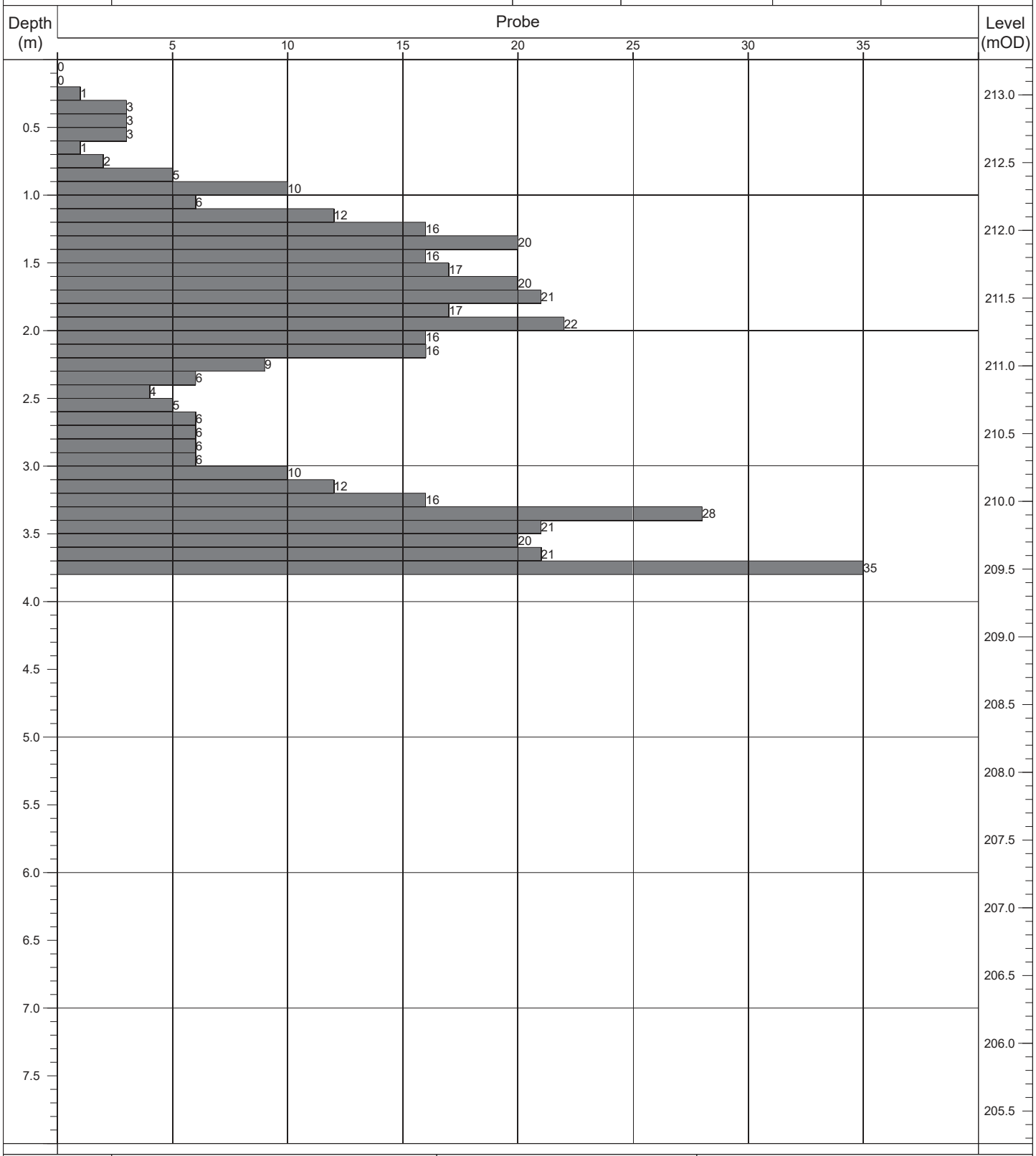
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No:	Dynamic Probe Log				Probe No:
6100					**DP030**
Contract:	Blessington - Phase 3	Easting:	697871.723	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715328.865	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.82	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



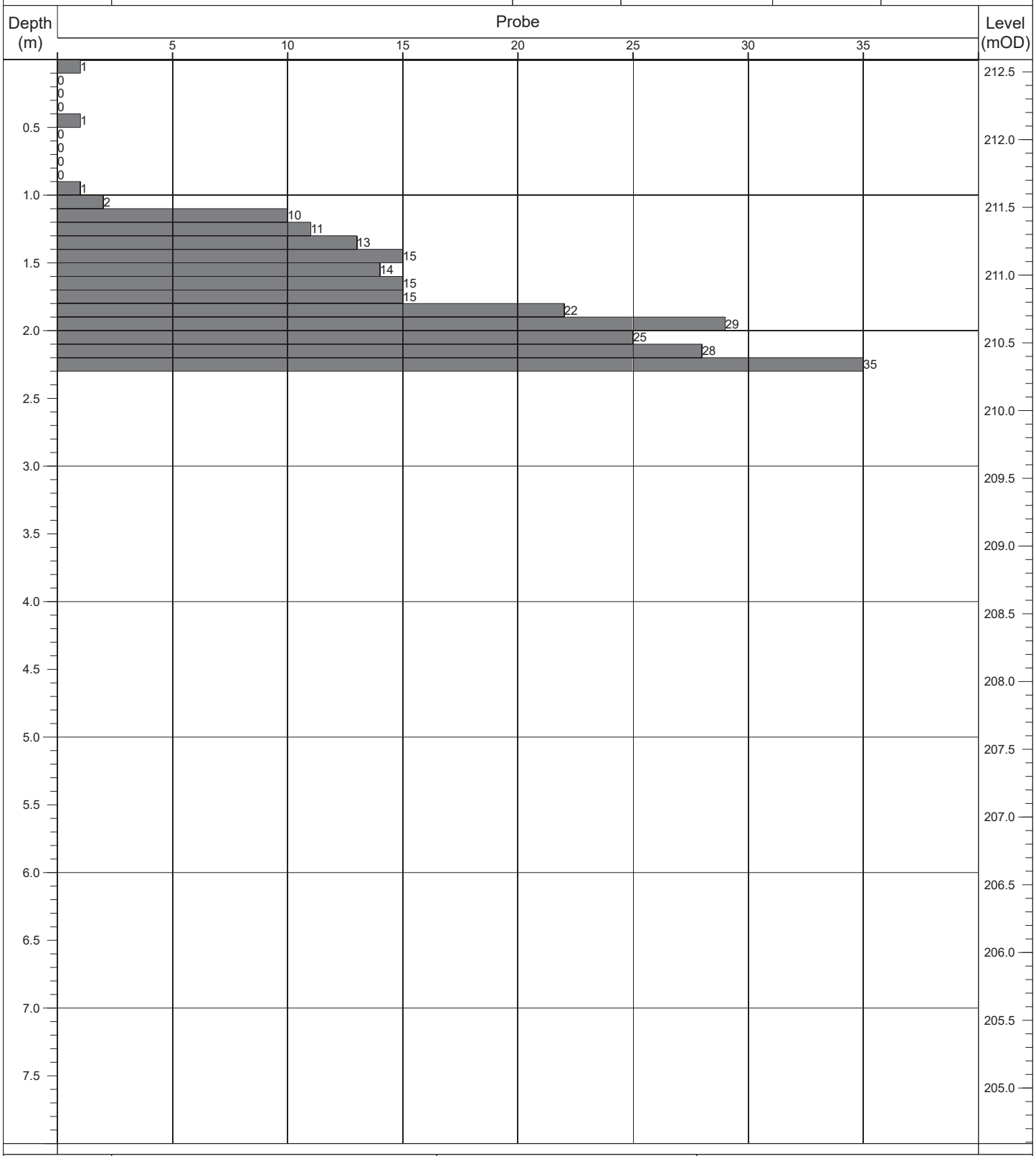
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP031**
Contract:	Blessington - Phase 3	Easting:	697842.040	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715344.093	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.26	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



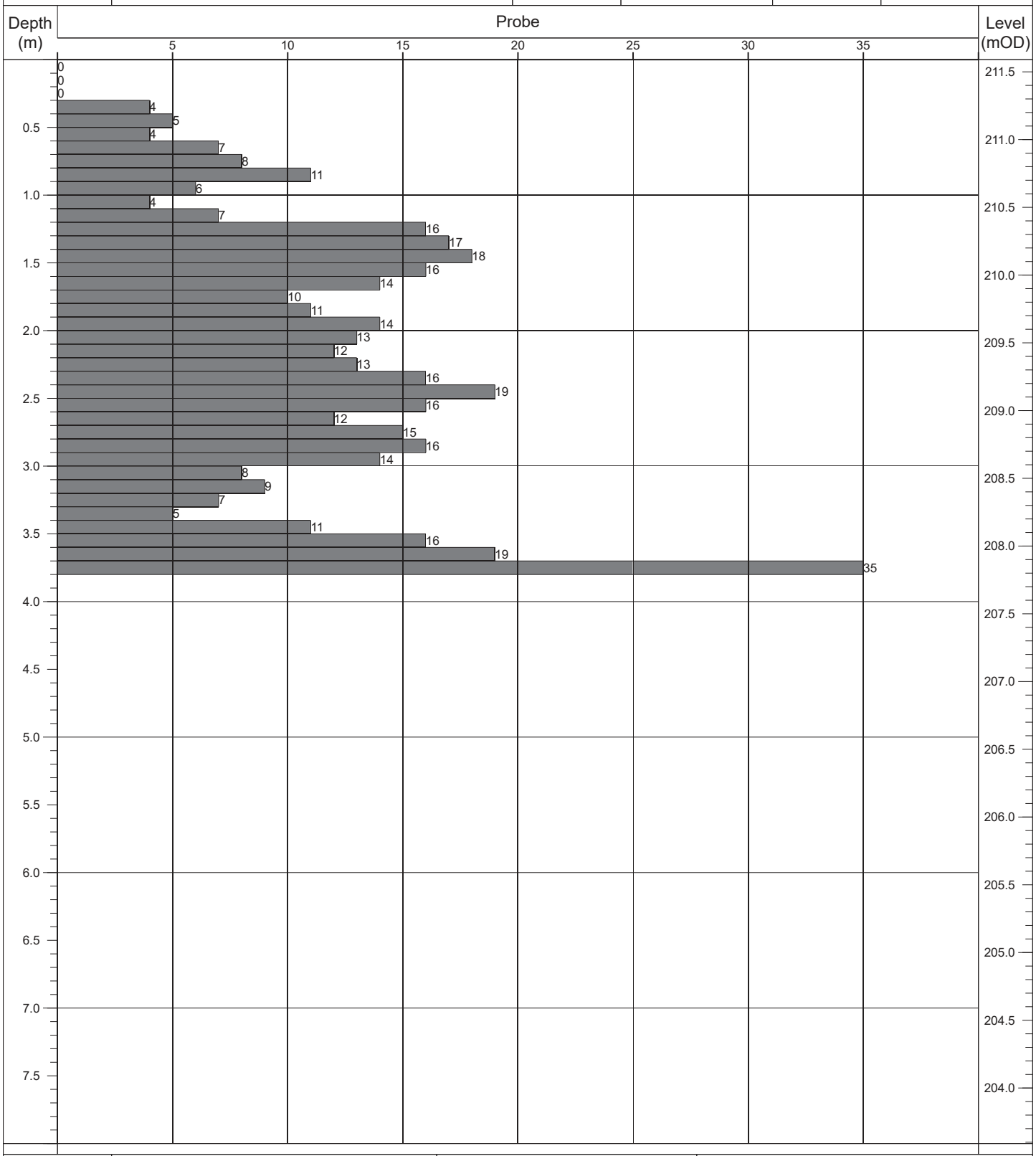
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP032**
Contract:	Blessington - Phase 3	Easting:	697863.810	Date Started:	08/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715320.379	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.59	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



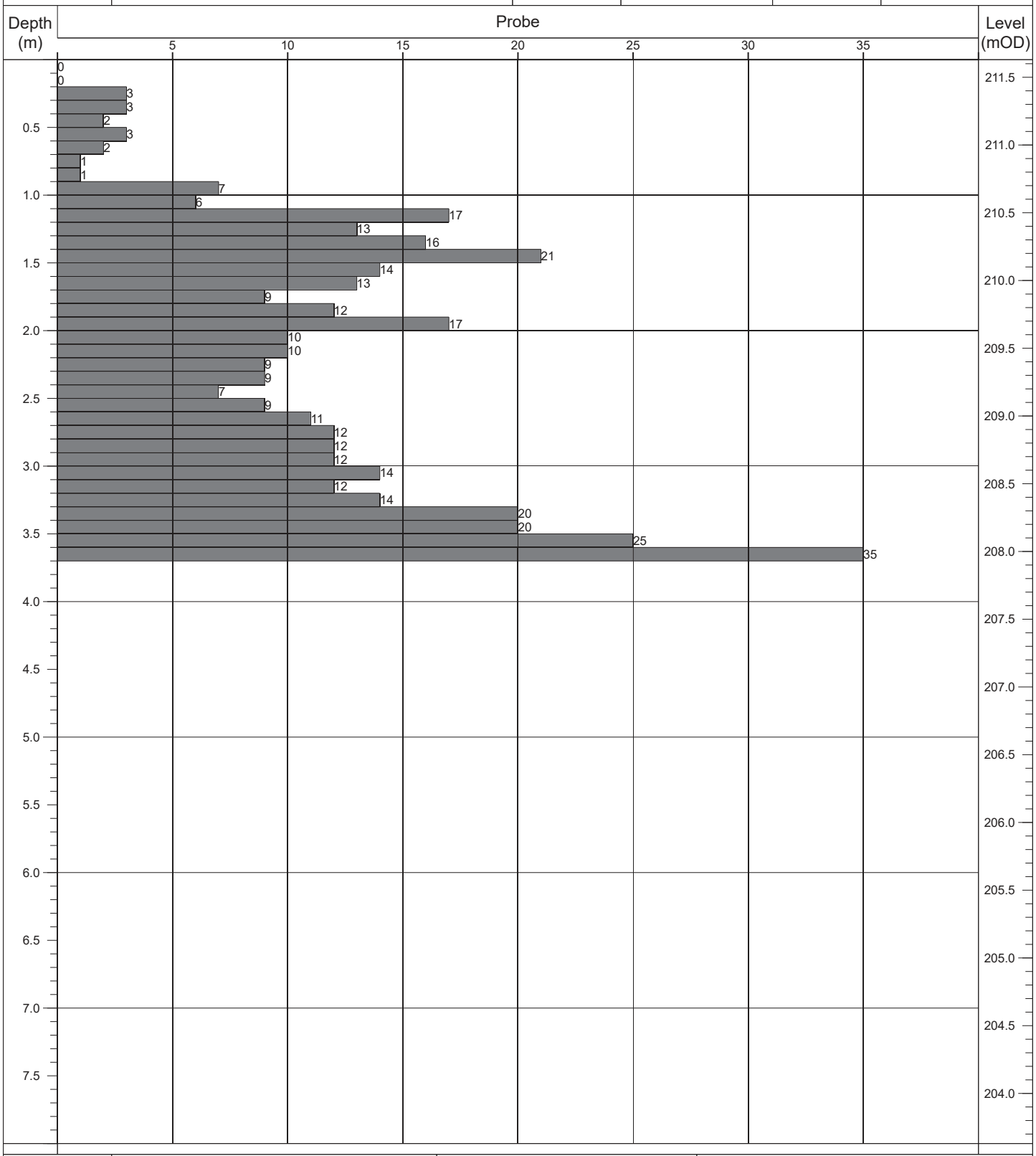
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP033**
Contract:	Blessington - Phase 3	Easting:	697892.982	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715299.846	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.59	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



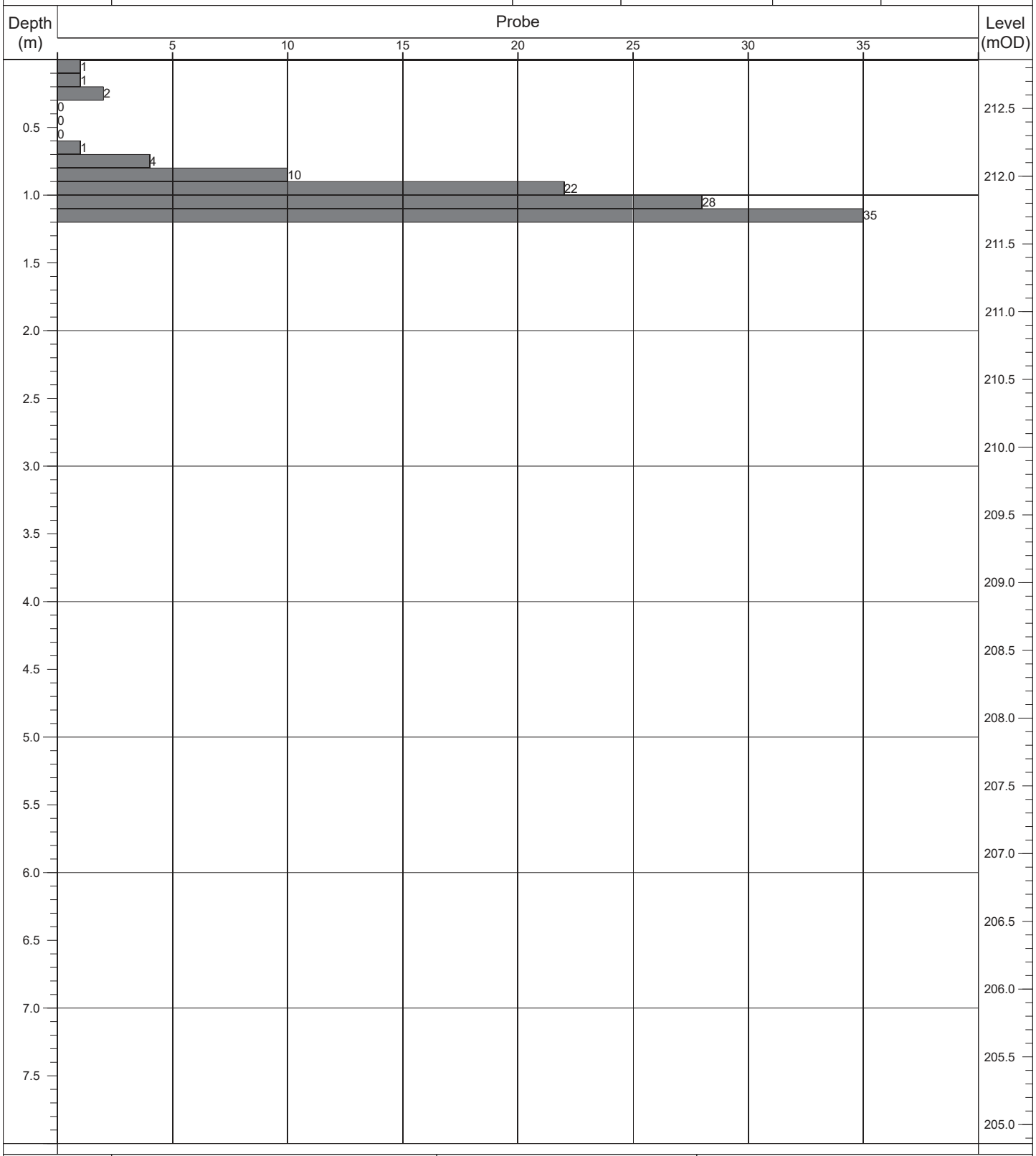
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP034**
Contract:	Blessington - Phase 3	Easting:	697896.980	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715303.513	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.63	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



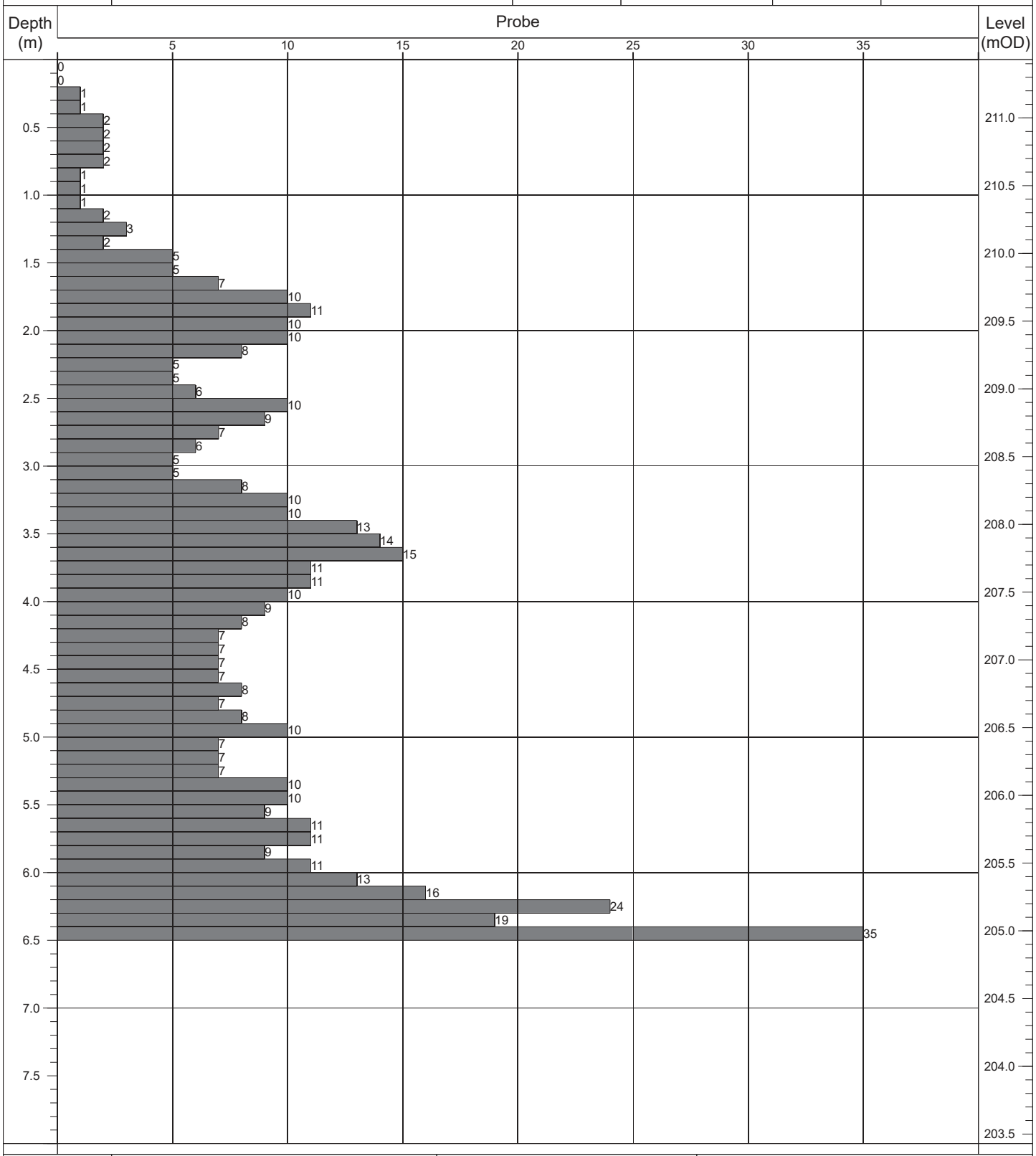
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP035
Contract:	Blessington - Phase 3	Easting:	697875.639	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715332.335	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.86	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



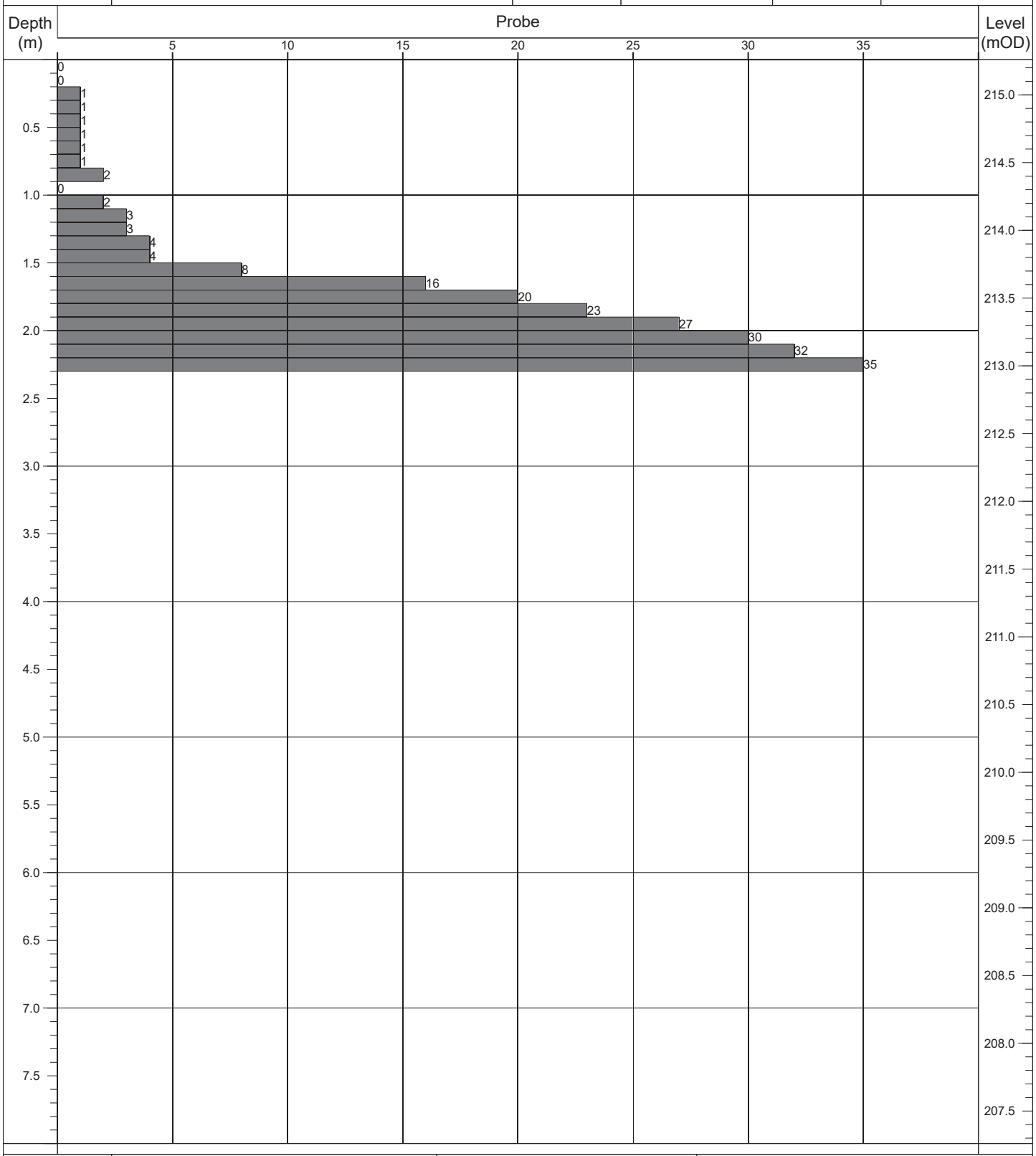
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP036**
Contract:	Blessington - Phase 3	Easting:	697889.059	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715295.880	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.43	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



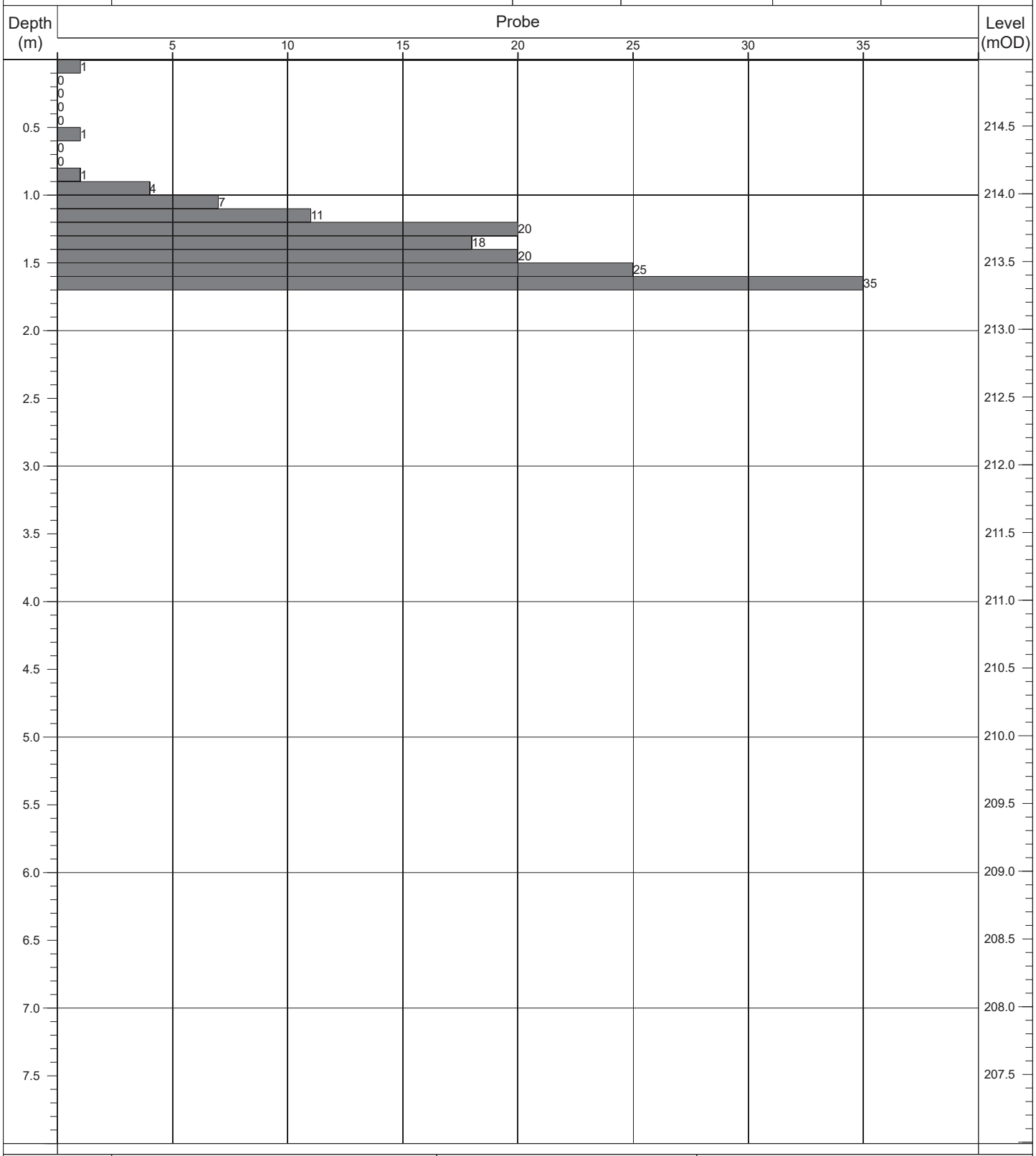
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP037
Contract:	Blessington - Phase 3	Easting:	697820.027	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715418.962	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.26	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



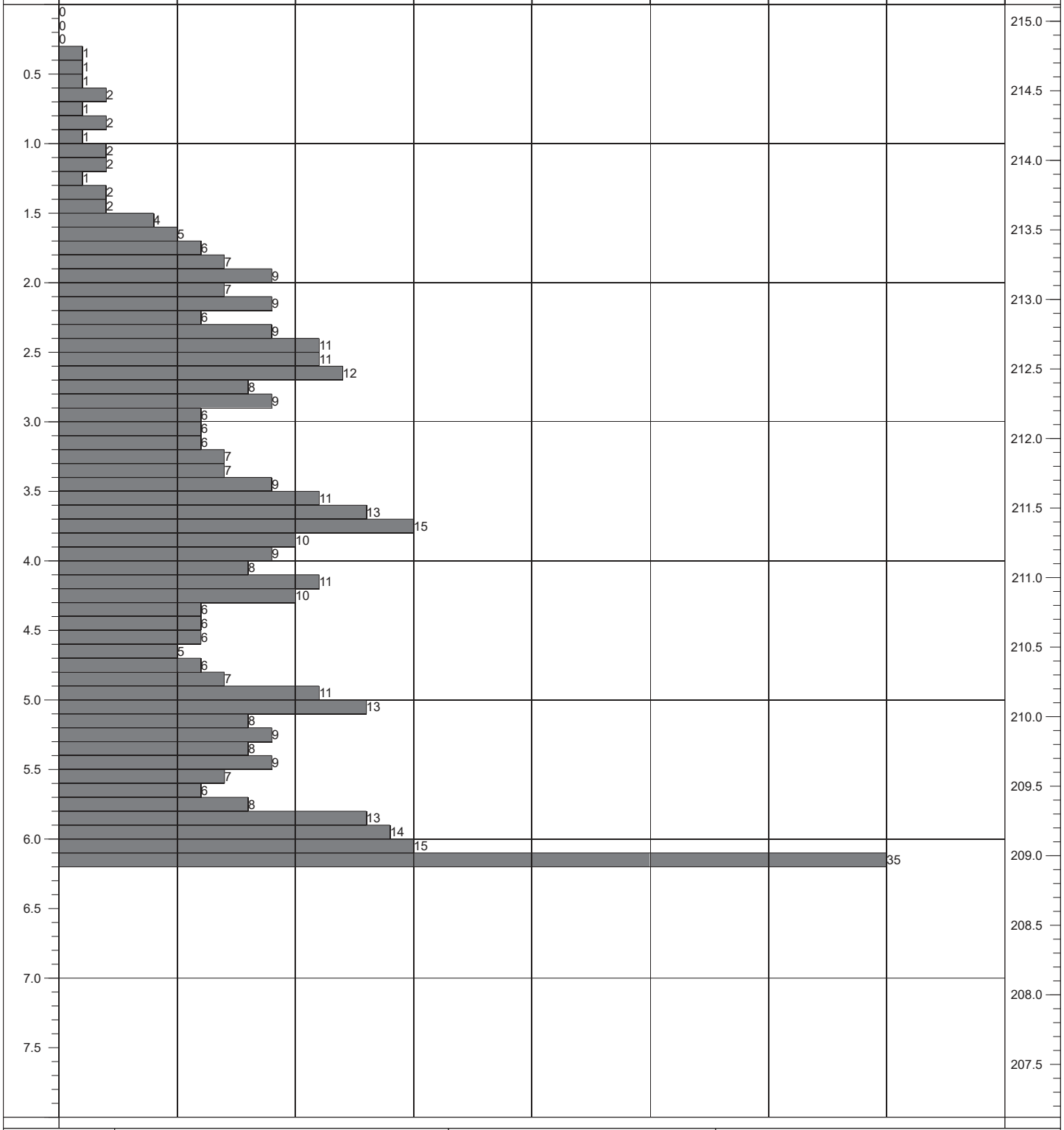
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP038
Contract:	Blessington - Phase 3	Easting:	697802.652	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715398.064	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.99	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



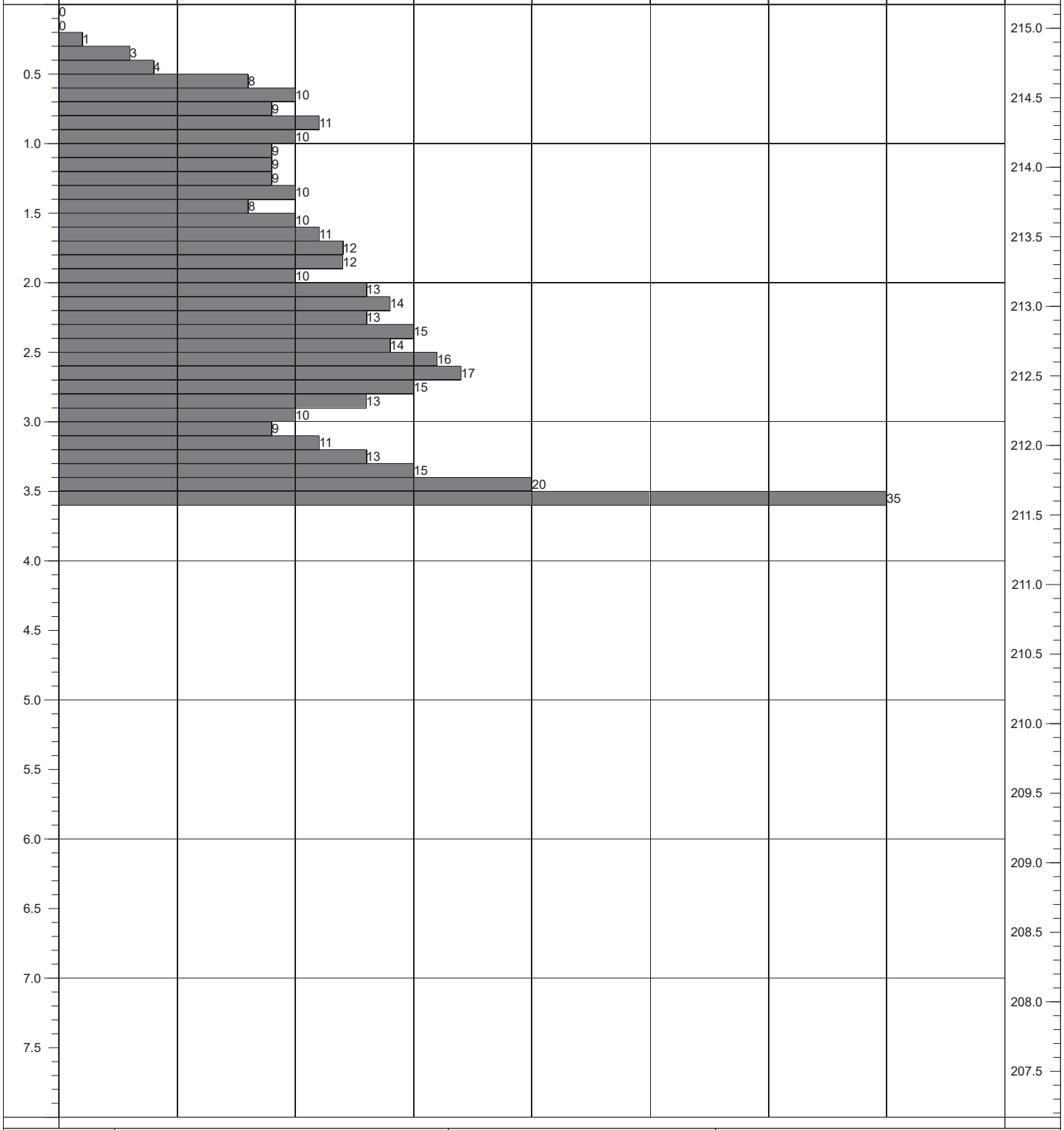
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP039
Contract:	Blessington - Phase 3	Easting:	697815.544	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715413.912	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.12	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



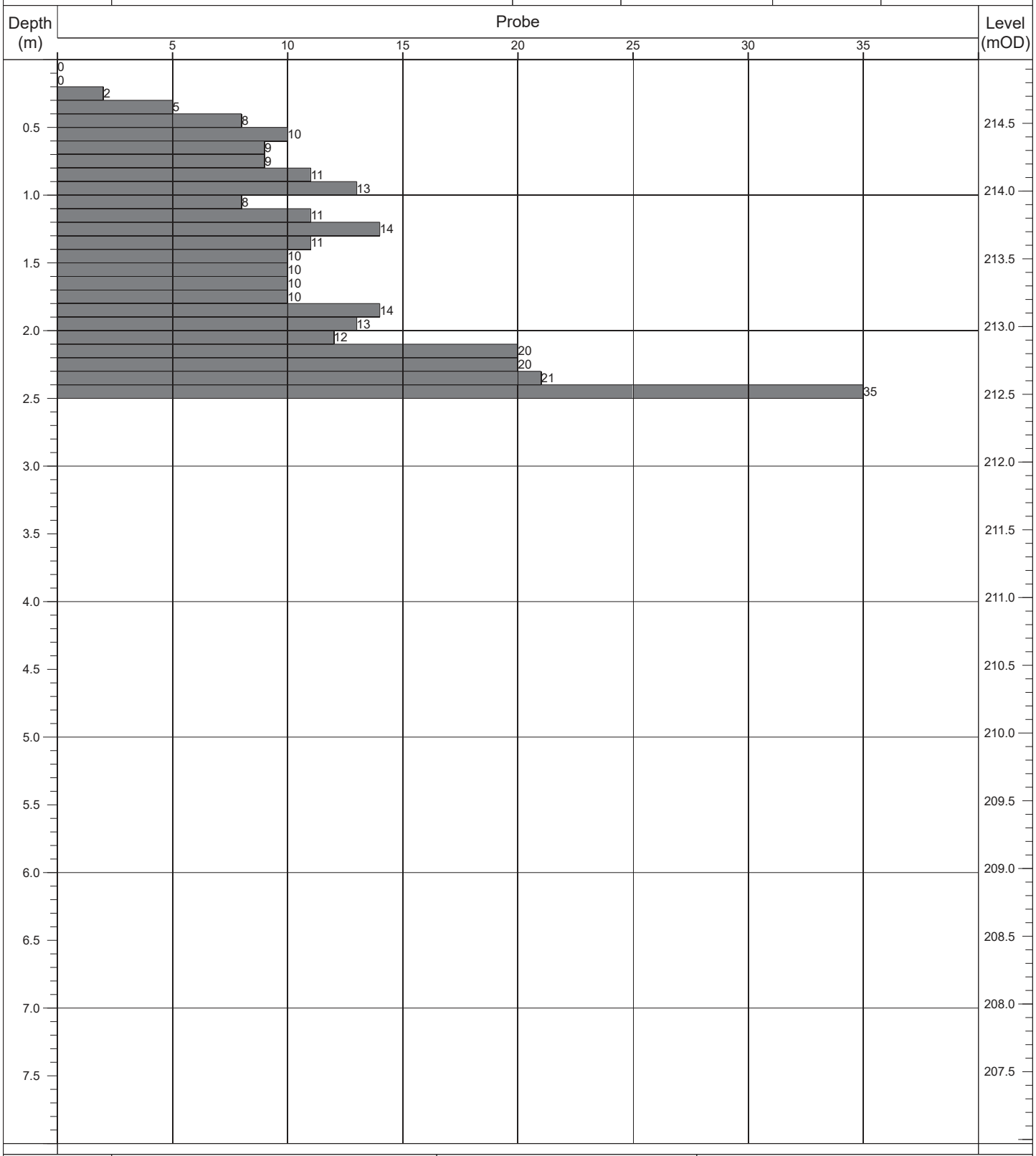
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP040**
Contract:	Blessington - Phase 3	Easting:	697833.566	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715436.926	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.17	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



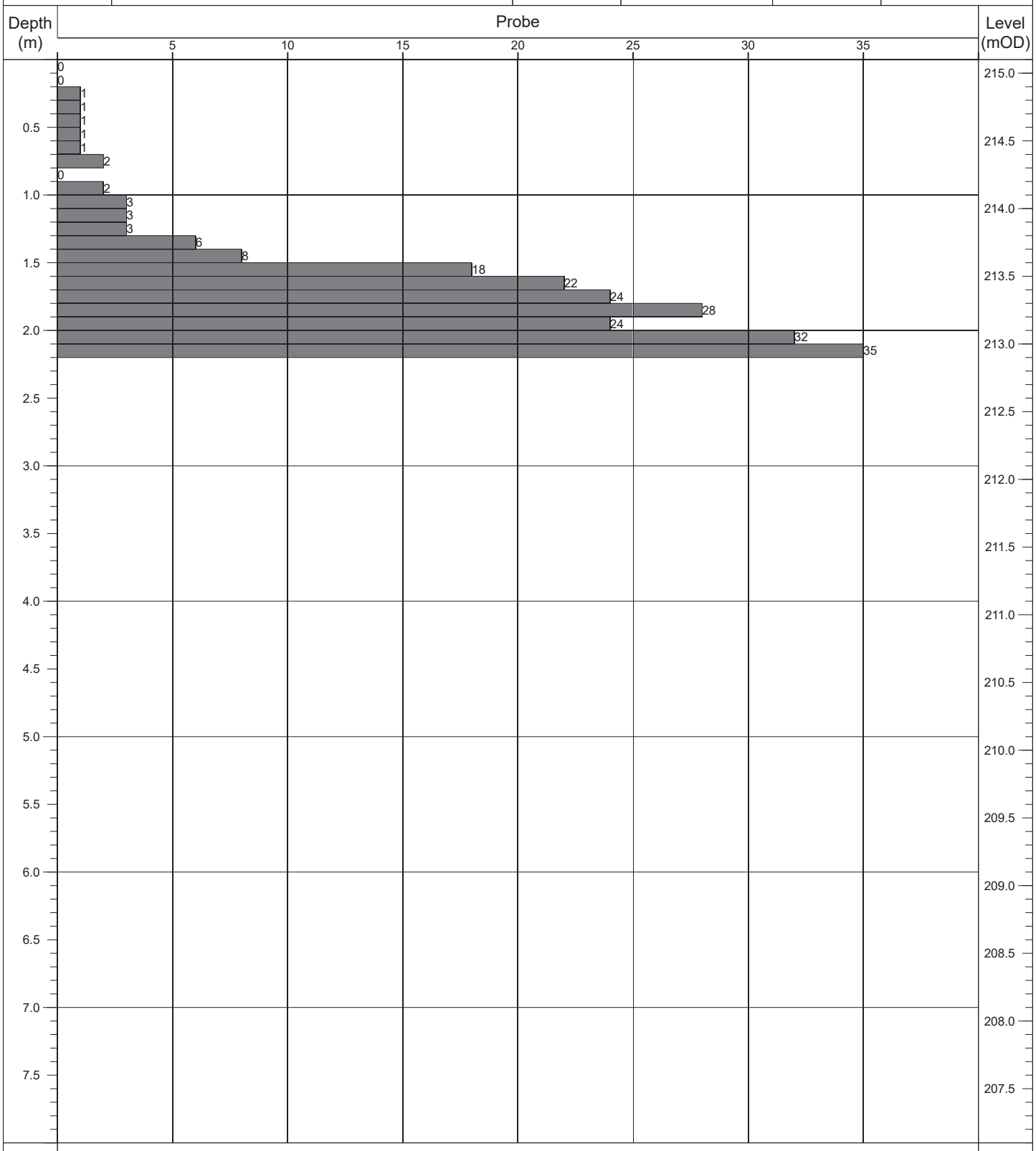
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP041
Contract:	Blessington - Phase 3	Easting:	697829.090	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715443.348	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.97	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



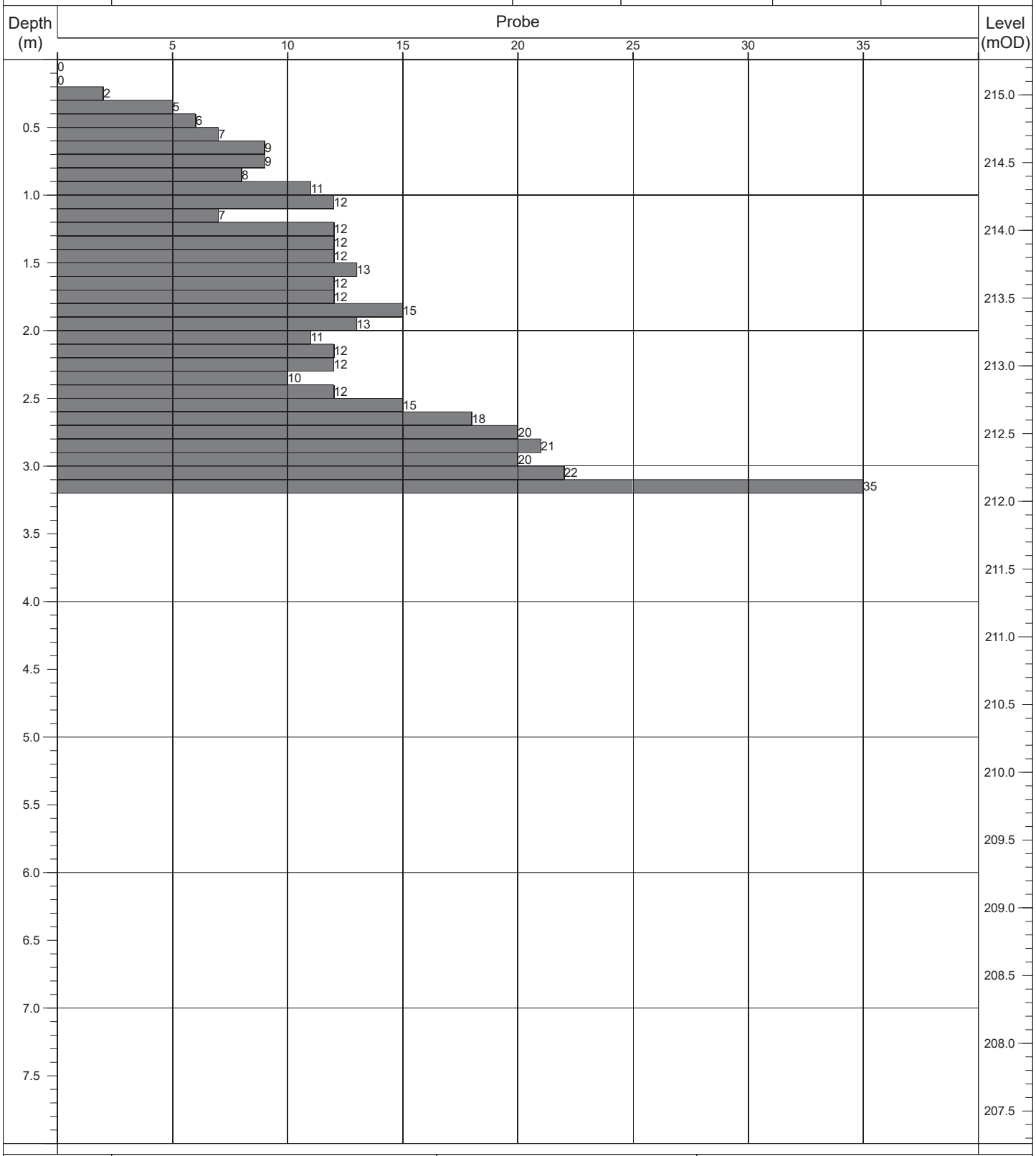
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP042**
Contract:	Blessington - Phase 3	Easting:	697796.005	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715442.304	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.10	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



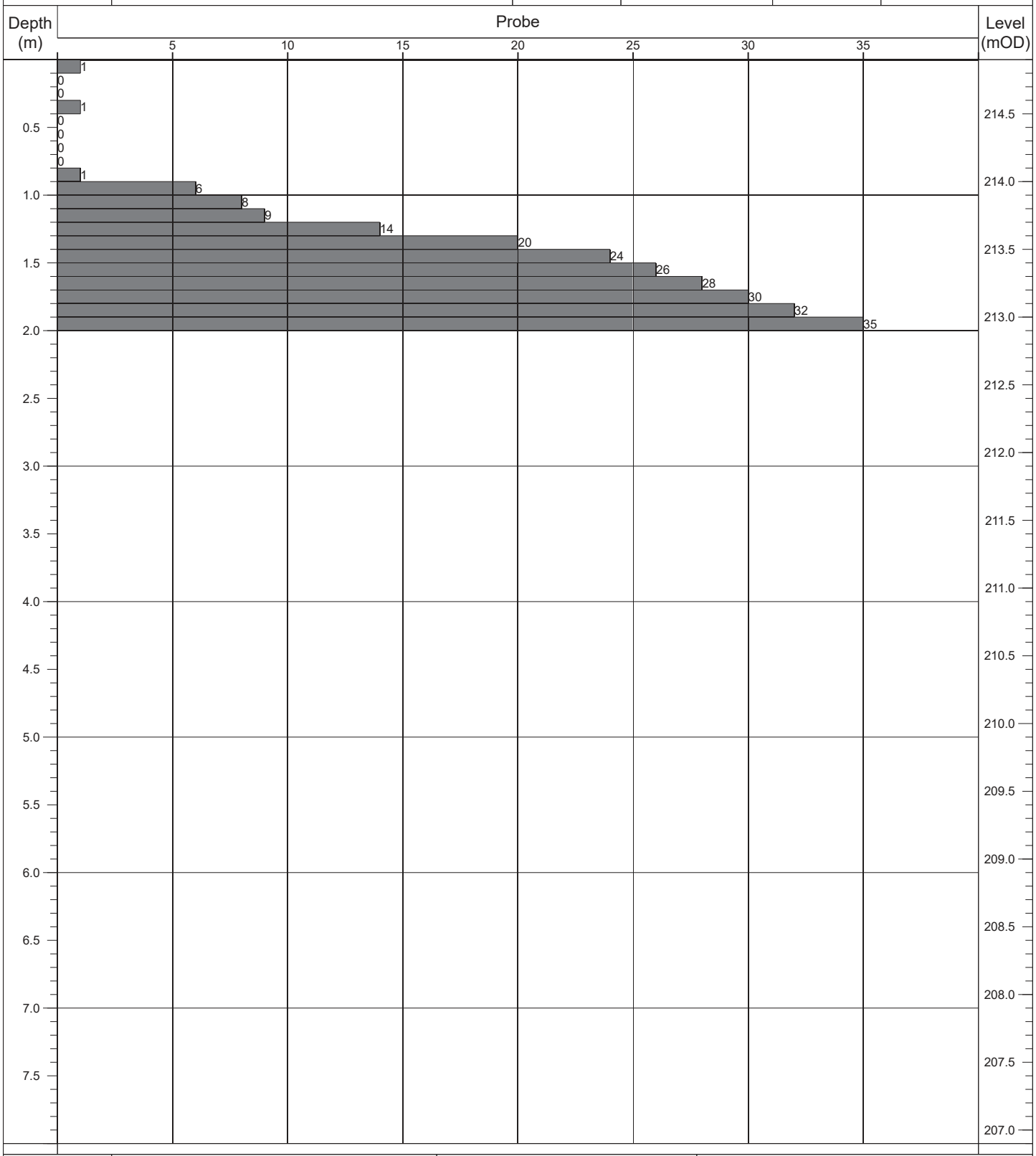
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP043**
Contract:	Blessington - Phase 3	Easting:	697838.496	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715432.096	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.26	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



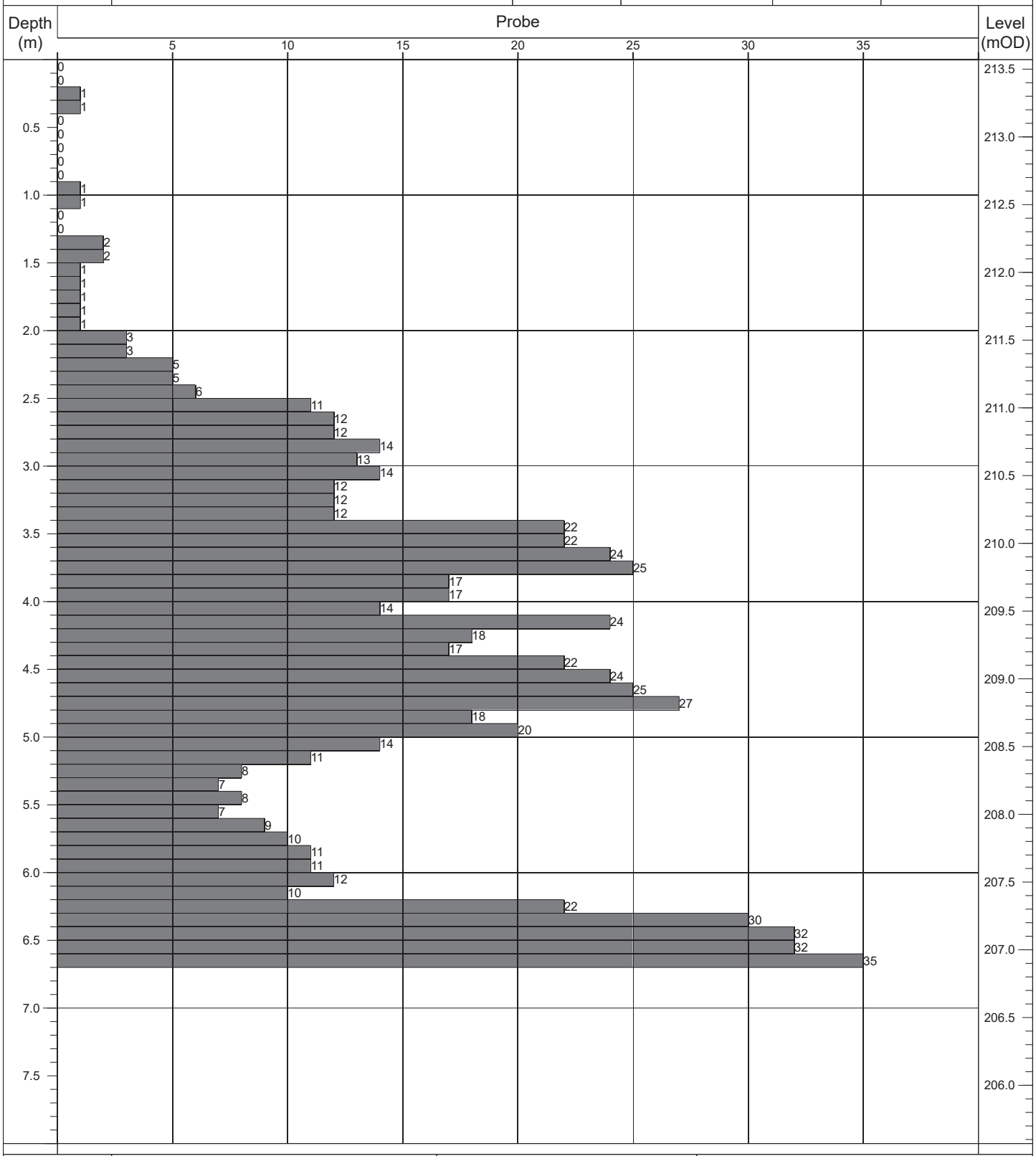
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP044**
Contract:	Blessington - Phase 3	Easting:	697799.026	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715401.525	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.90	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



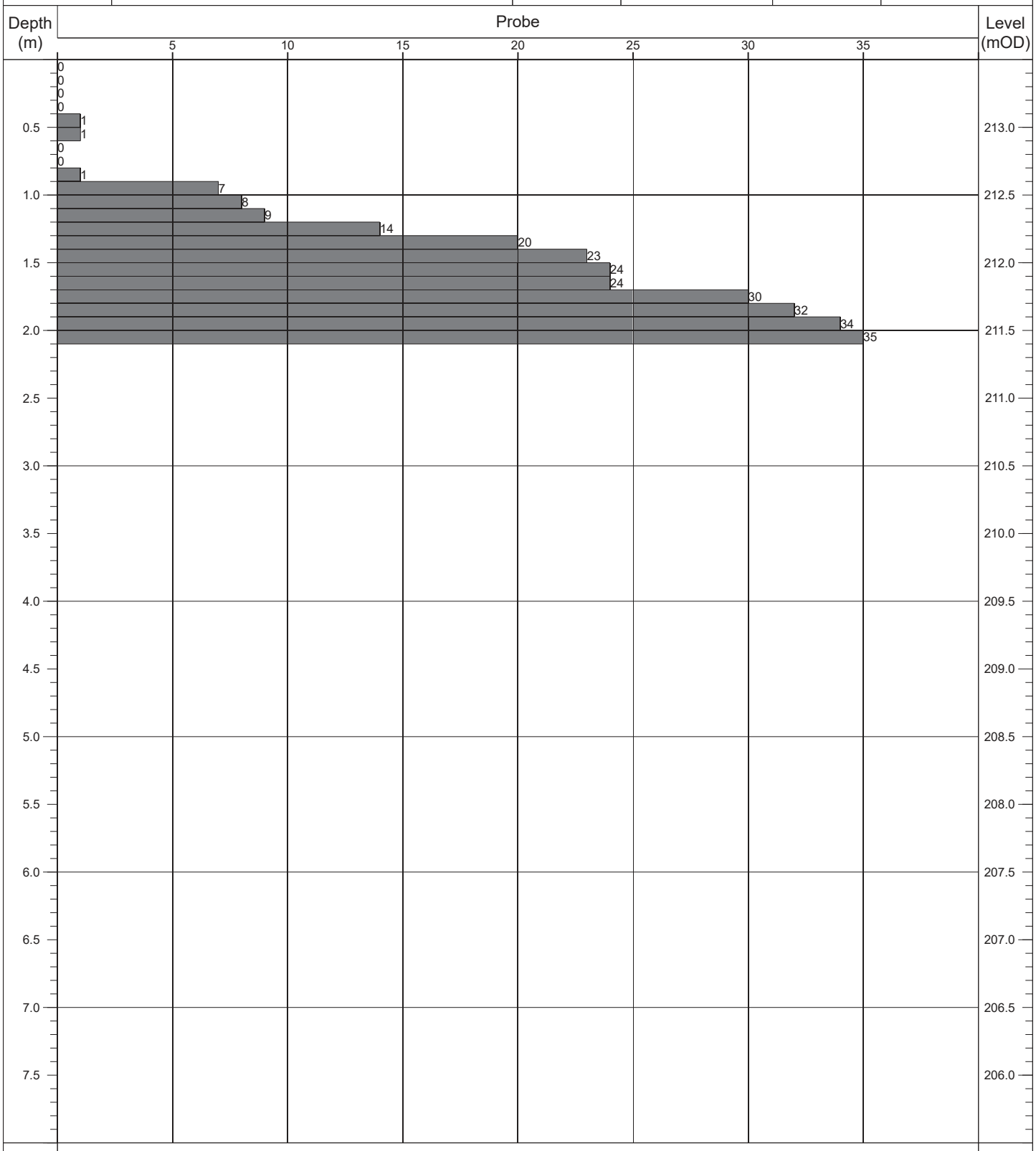
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP045
Contract:	Blessington - Phase 3	Easting:	697757.450	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715441.585	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.57	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



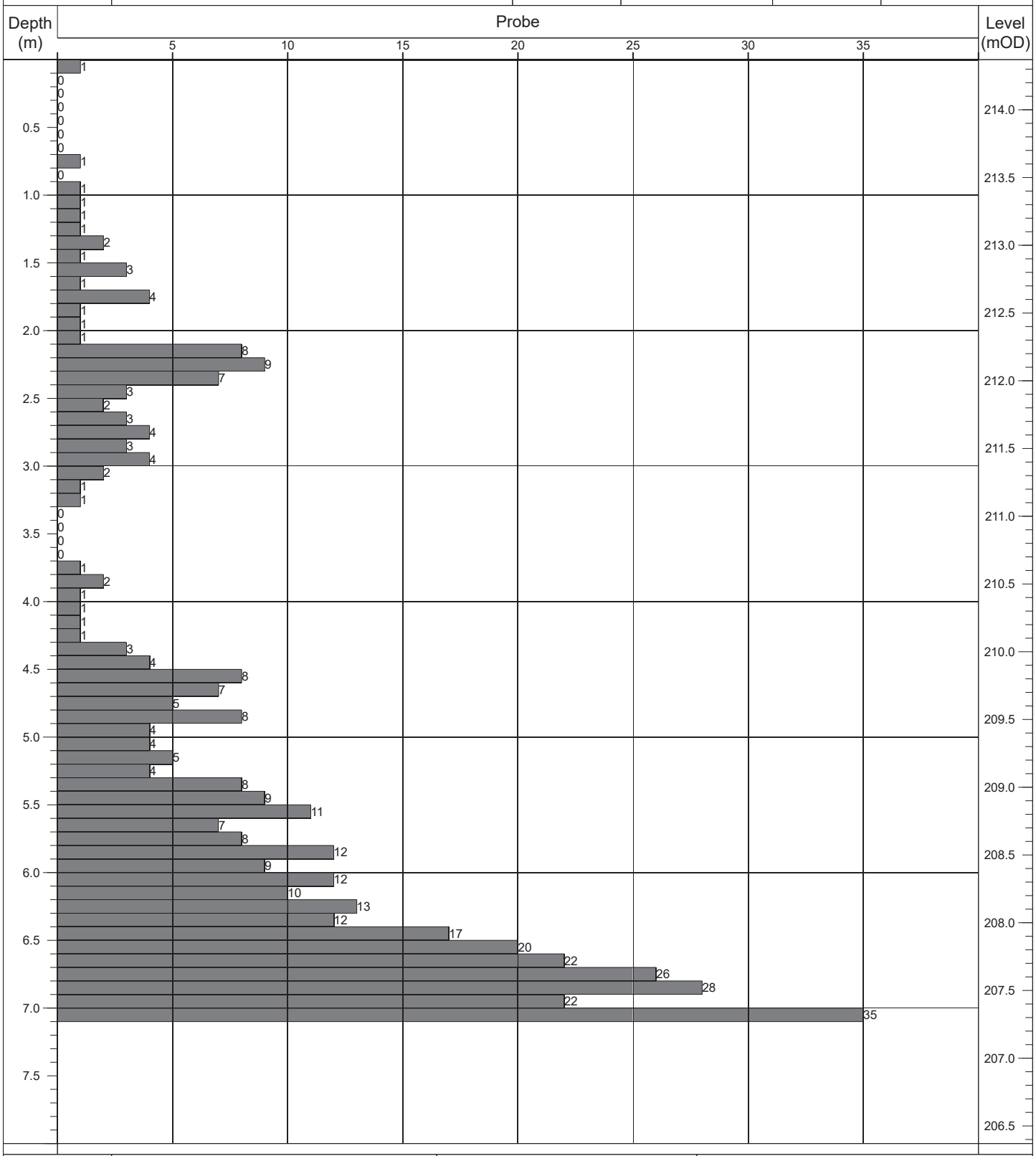
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No:	Dynamic Probe Log				Probe No:
6100					**DP046**
Contract:	Blessington - Phase 3	Easting:	697776.027	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715424.834	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.50	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



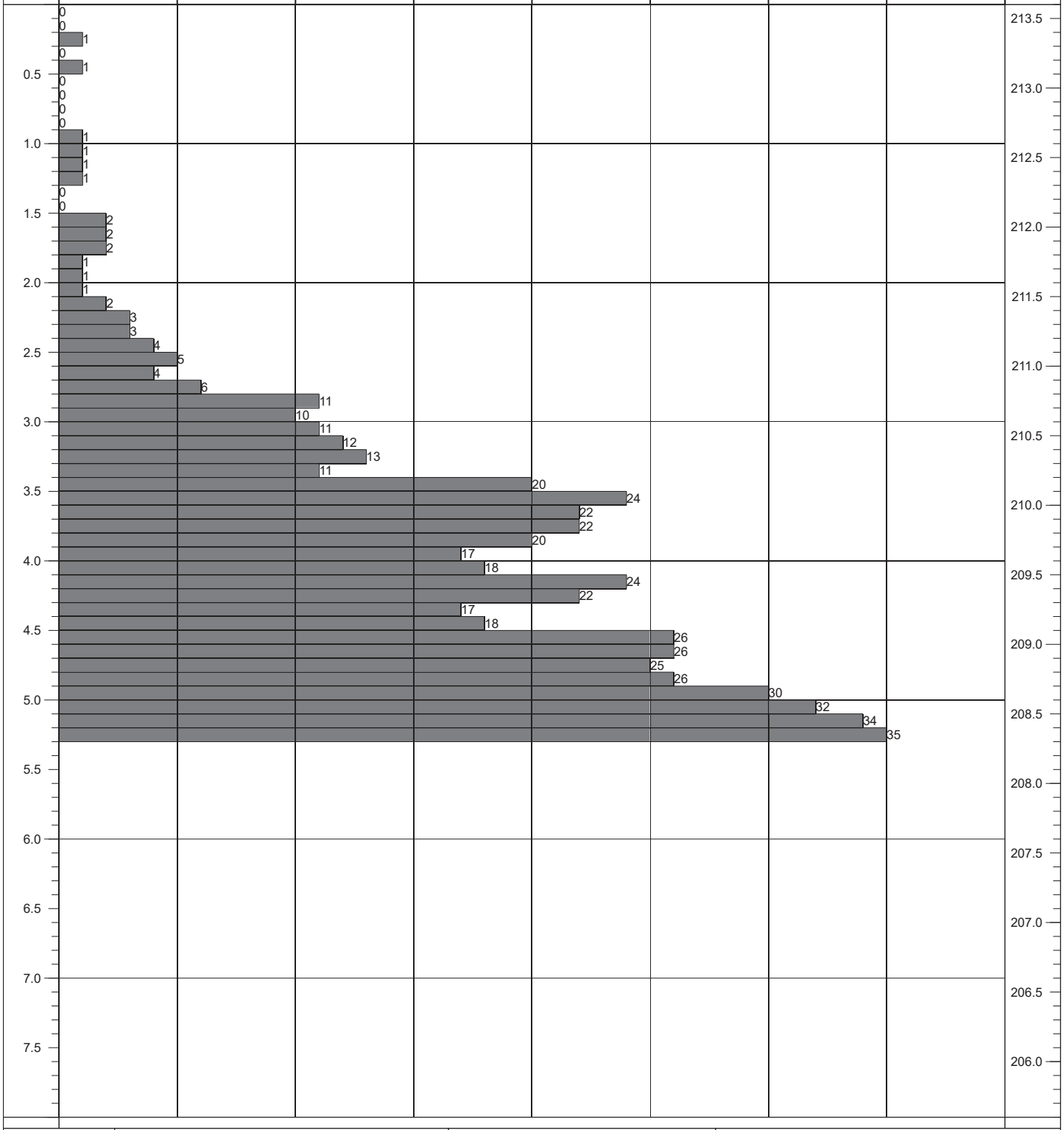
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP047
Contract:	Blessington - Phase 3	Easting:	697747.495	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715450.859	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.37	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



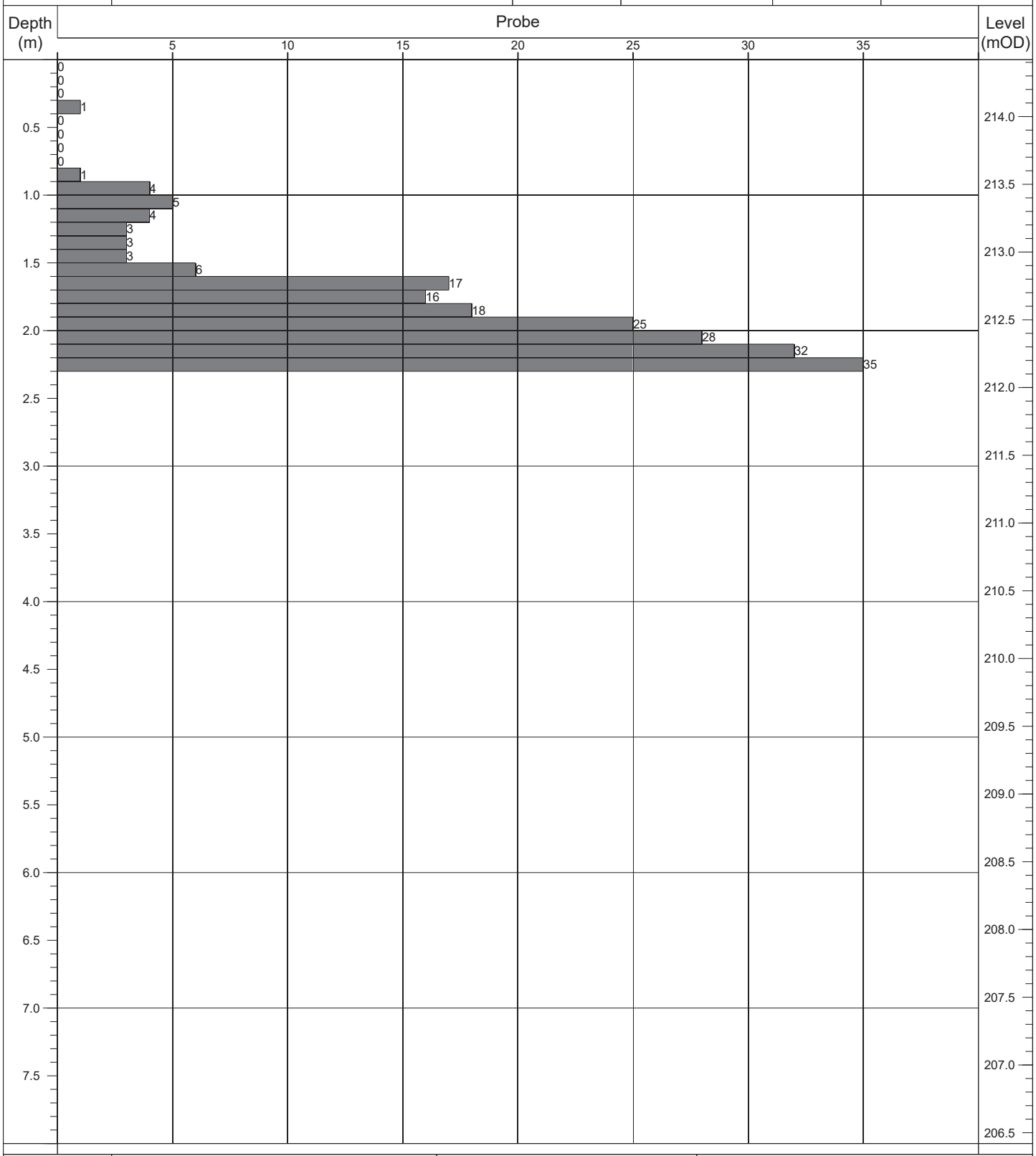
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
7.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP048**
Contract:	Blessington - Phase 3	Easting:	697753.677	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715445.159	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.60	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



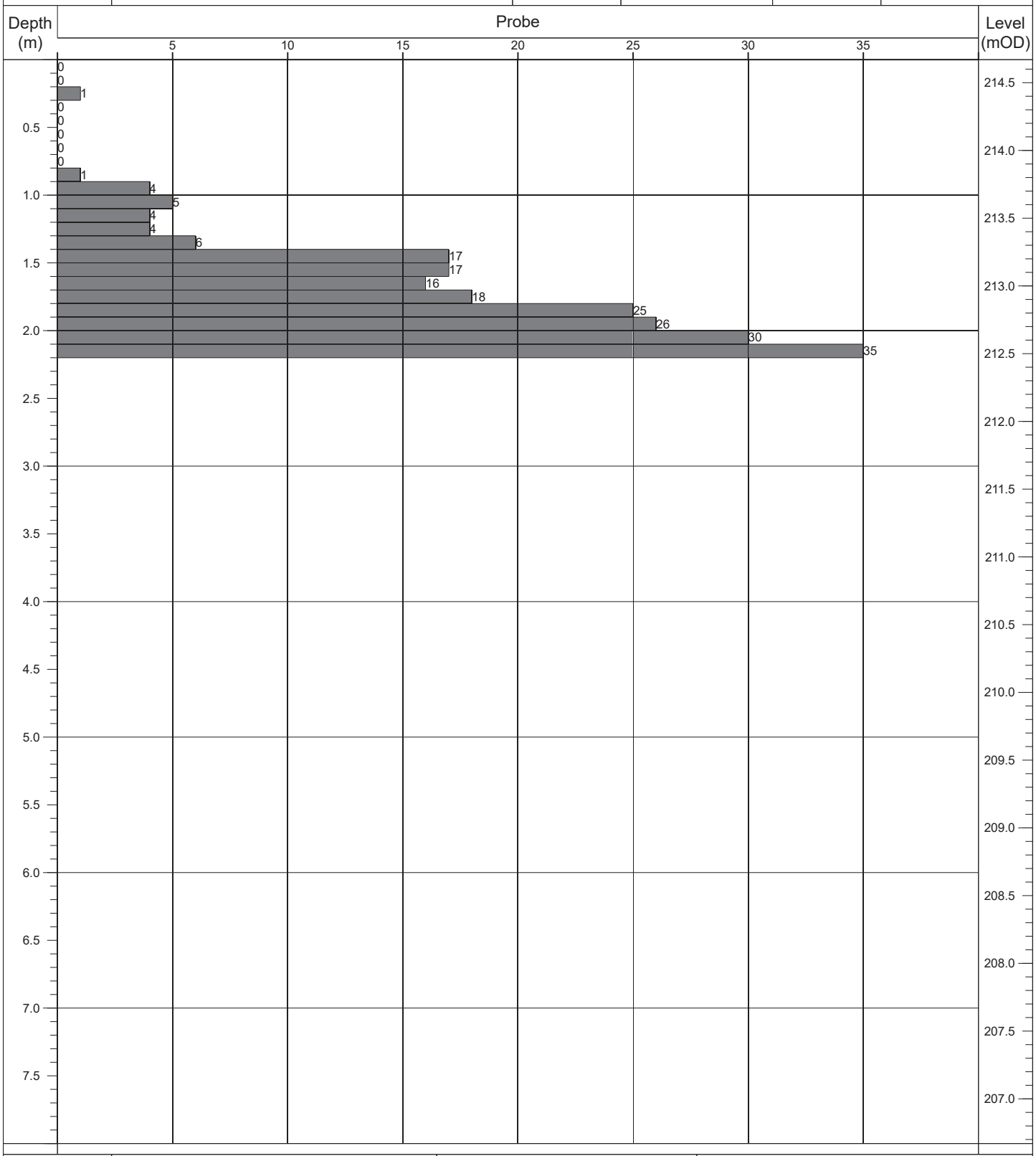
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP049**
Contract:	Blessington - Phase 3	Easting:	697789.869	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715411.374	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.42	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



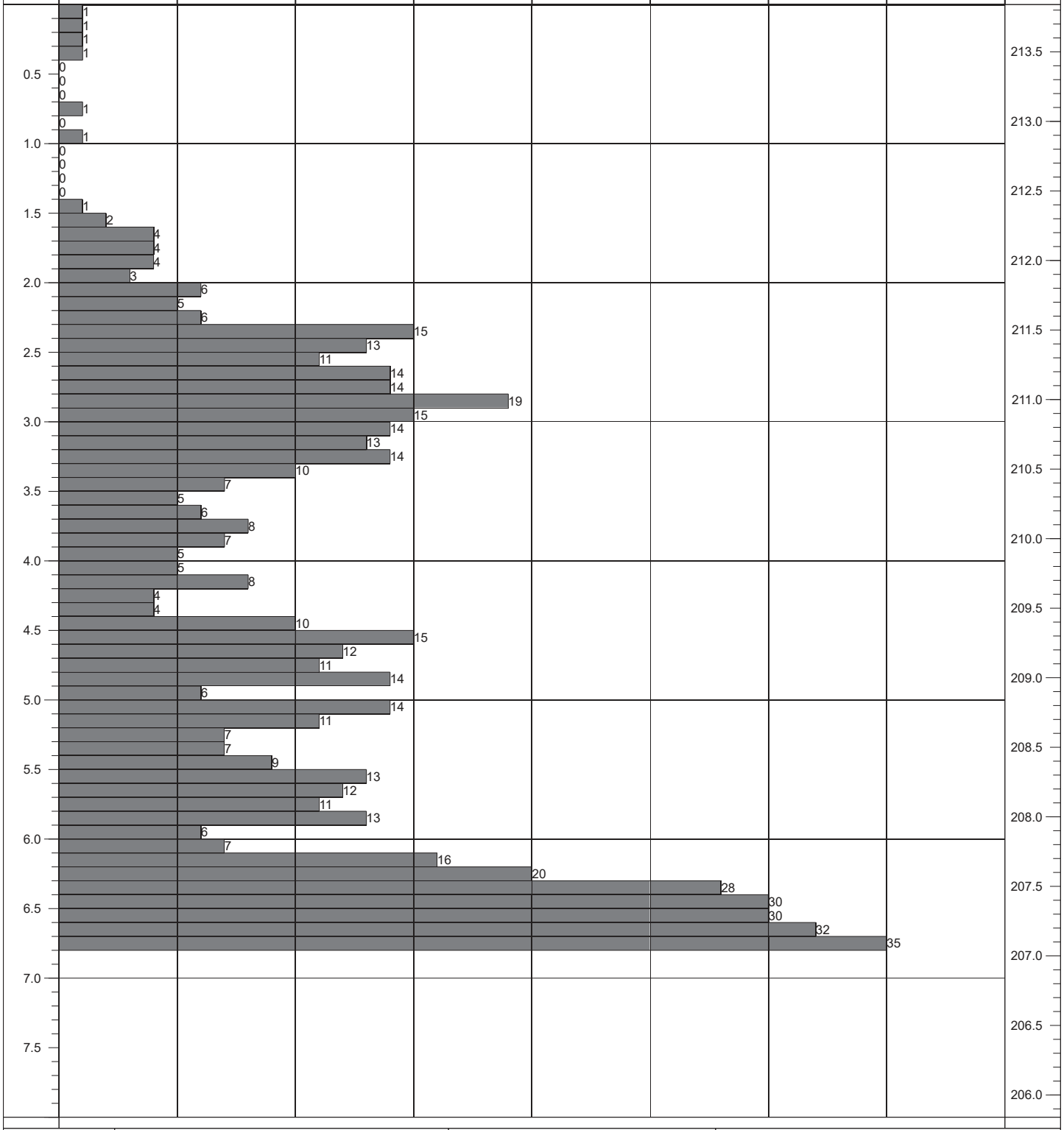
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP050**
Contract:	Blessington - Phase 3	Easting:	697793.516	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715407.475	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.67	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



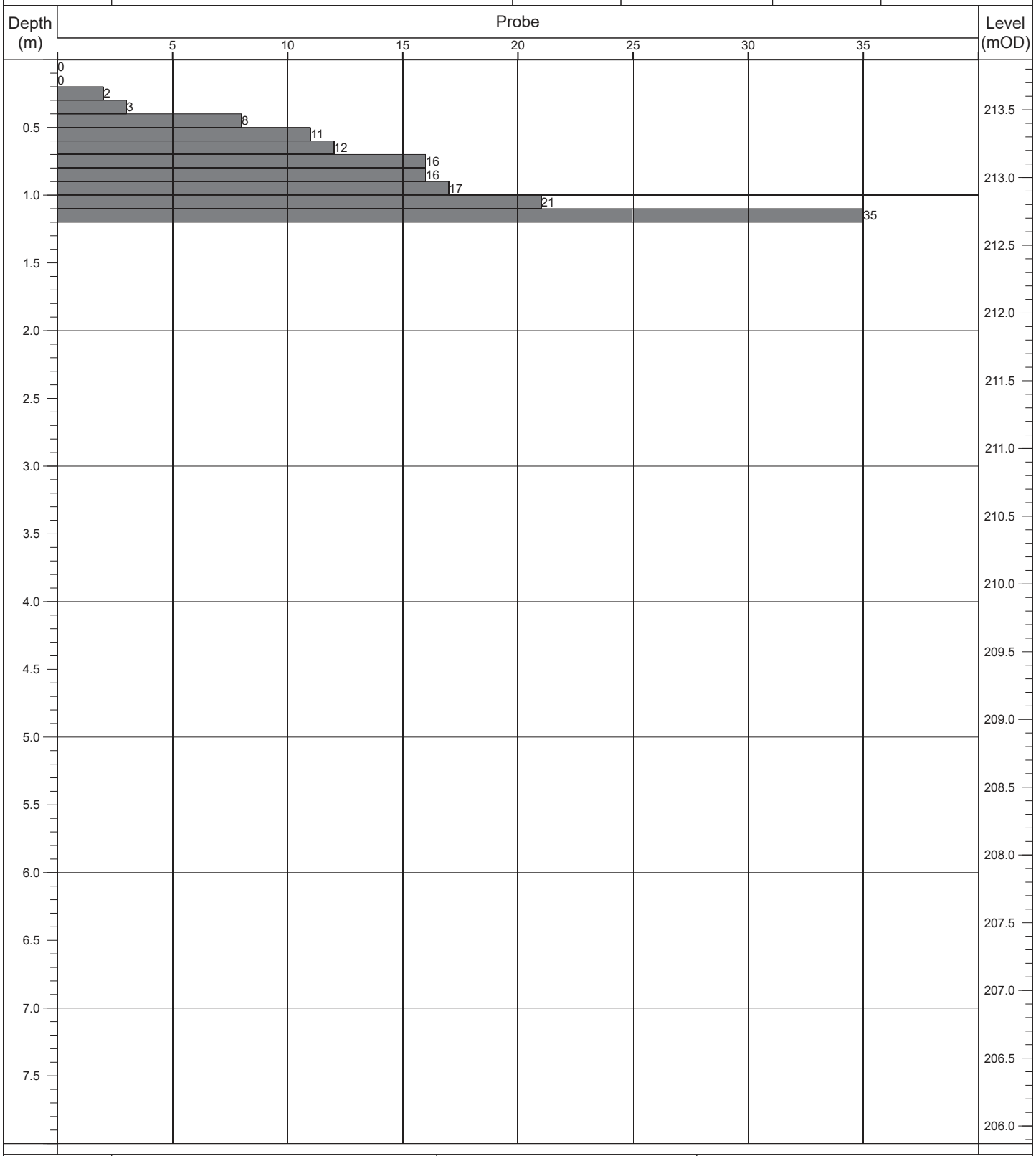
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP051**
Contract:	Blessington - Phase 3	Easting:	697781.783	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715418.701	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.84	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



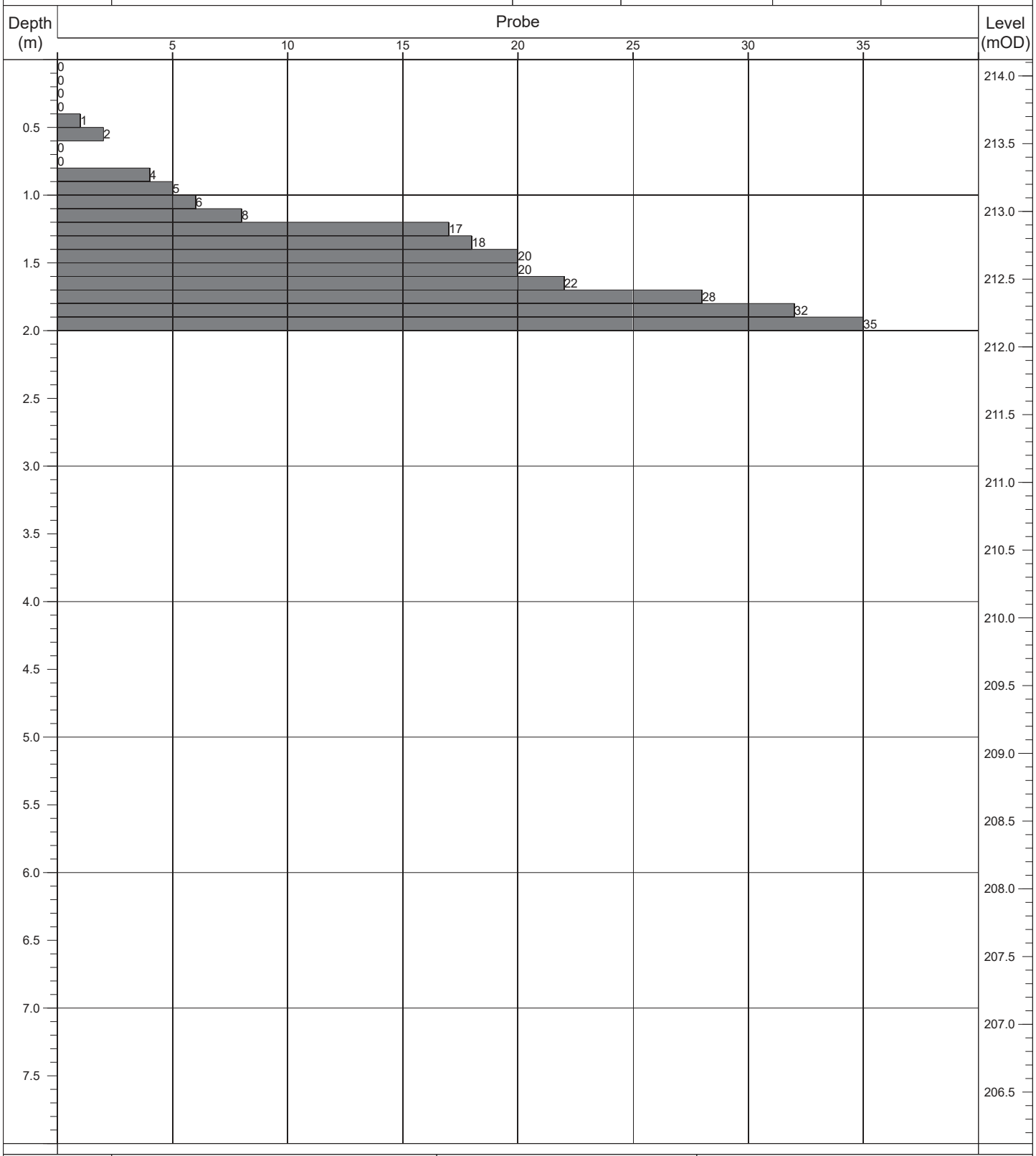
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP062**
Contract:	Blessington - Phase 3	Easting:	697785.435	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715479.158	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.87	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



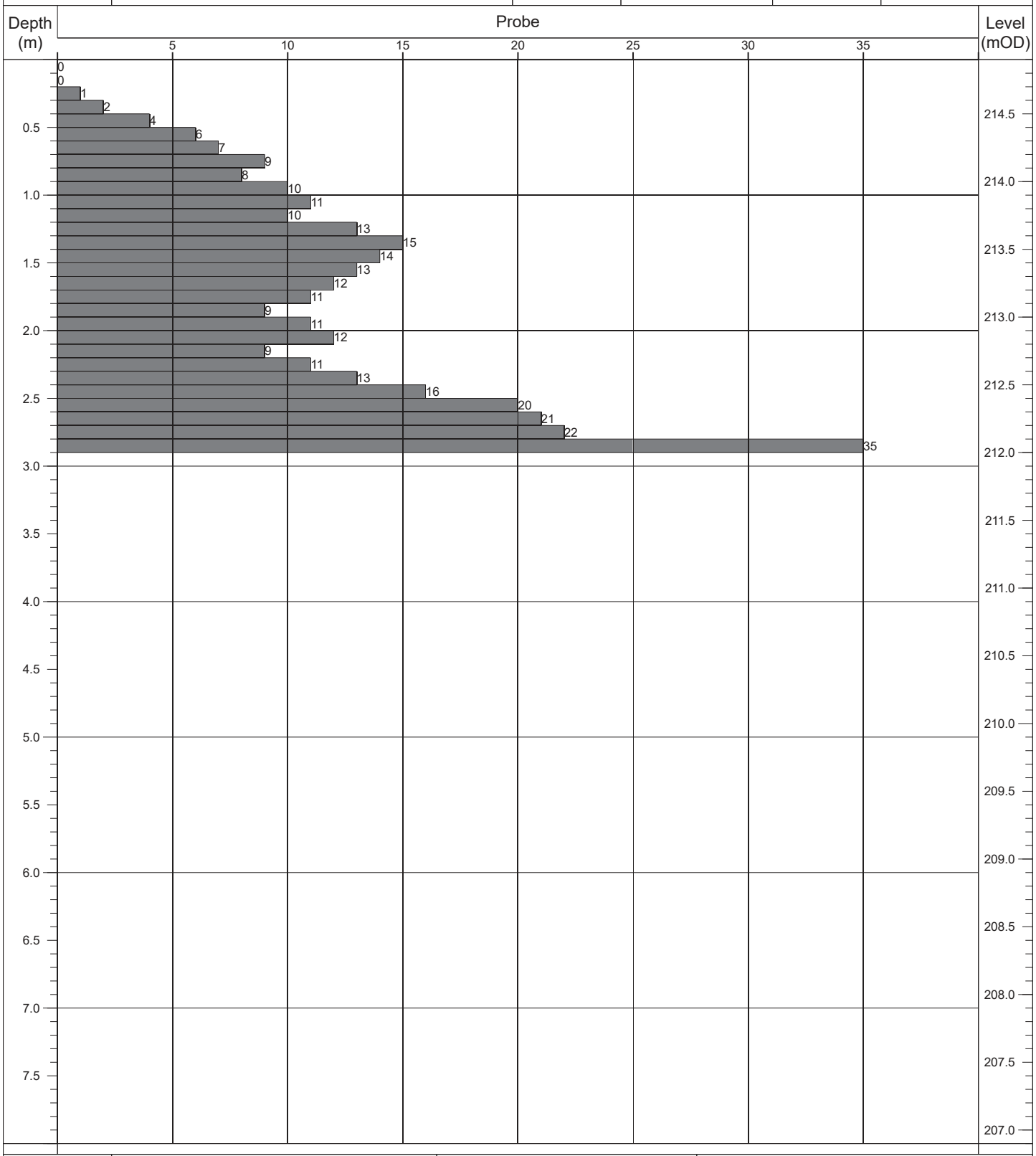
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP052
Contract:	Blessington - Phase 3	Easting:	697785.797	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715414.891	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.12	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



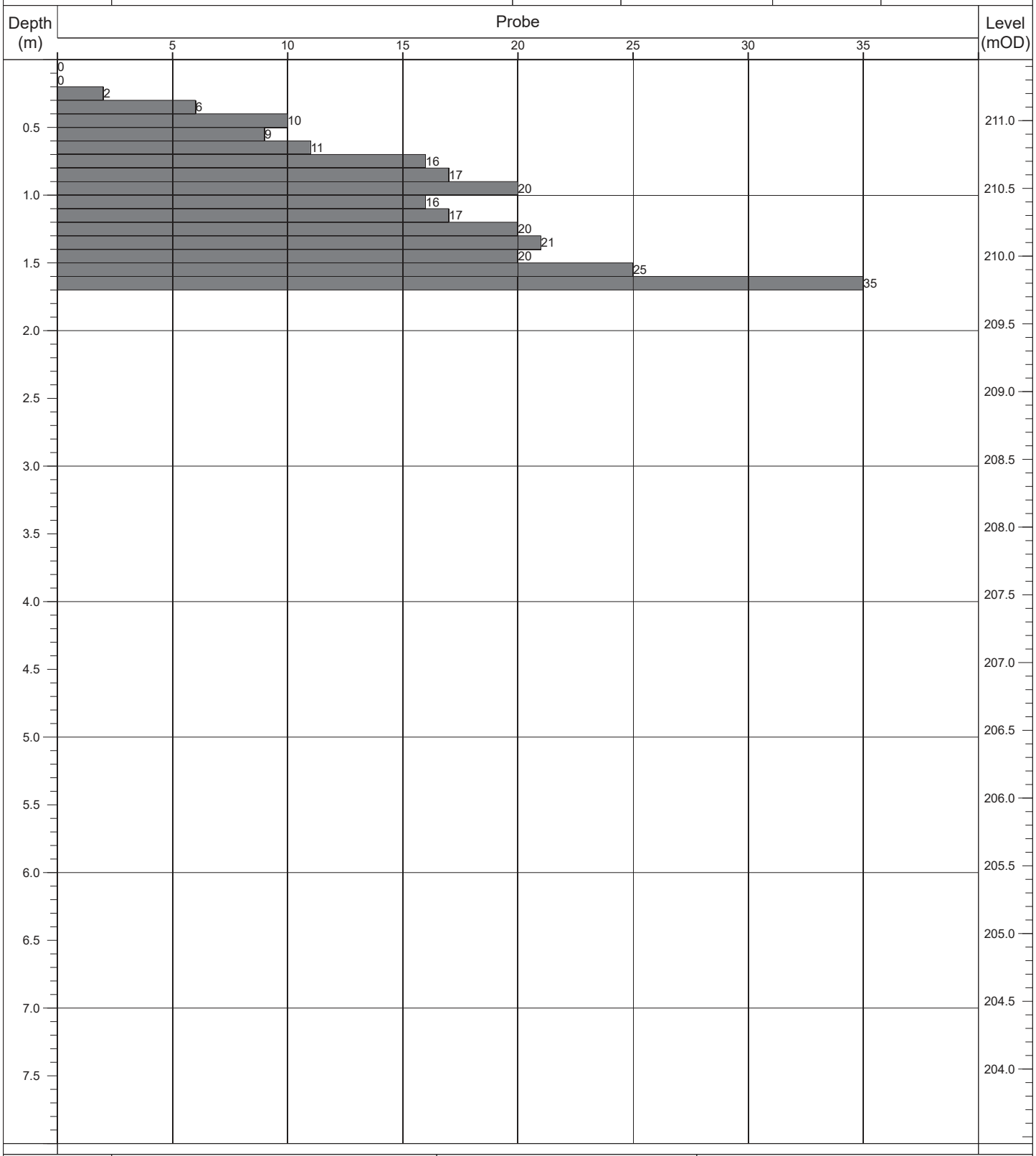
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP053**
Contract:	Blessington - Phase 3	Easting:	697824.765	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715446.748	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.90	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



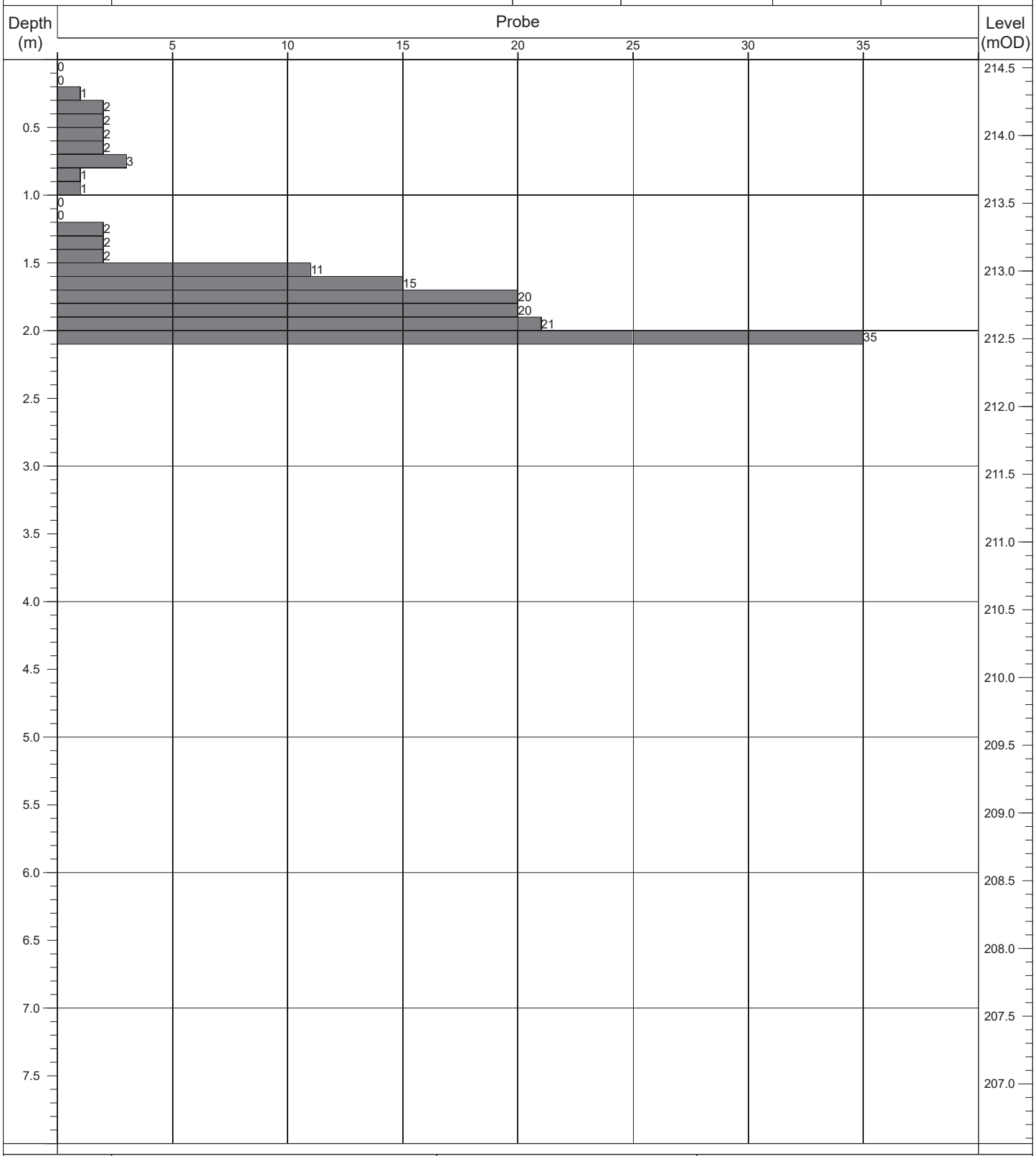
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP054**
Contract:	Blessington - Phase 3	Easting:	697797.267	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715491.181	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.45	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



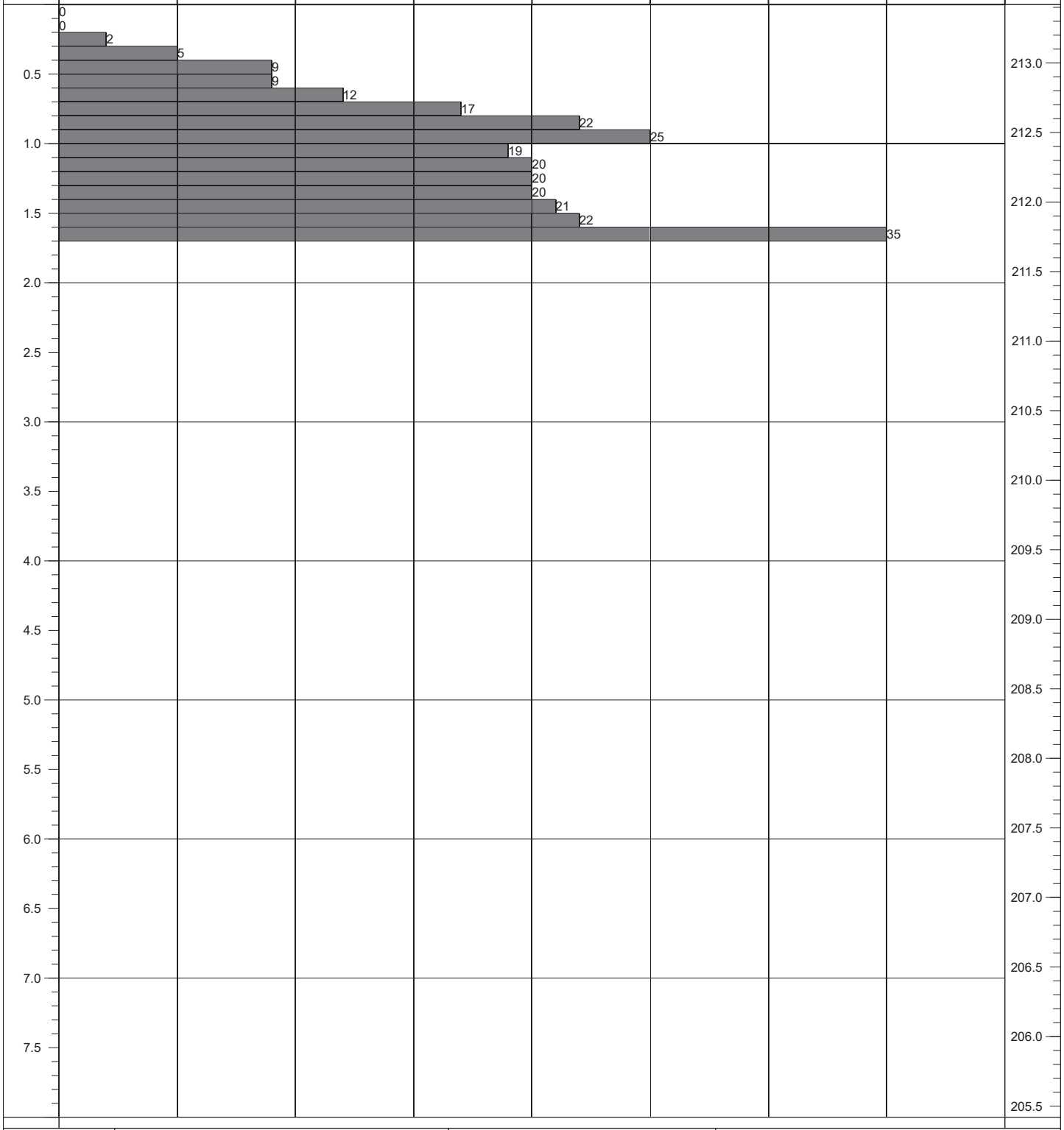
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP055
Contract:	Blessington - Phase 3	Easting:	697818.761	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715374.004	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.56	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



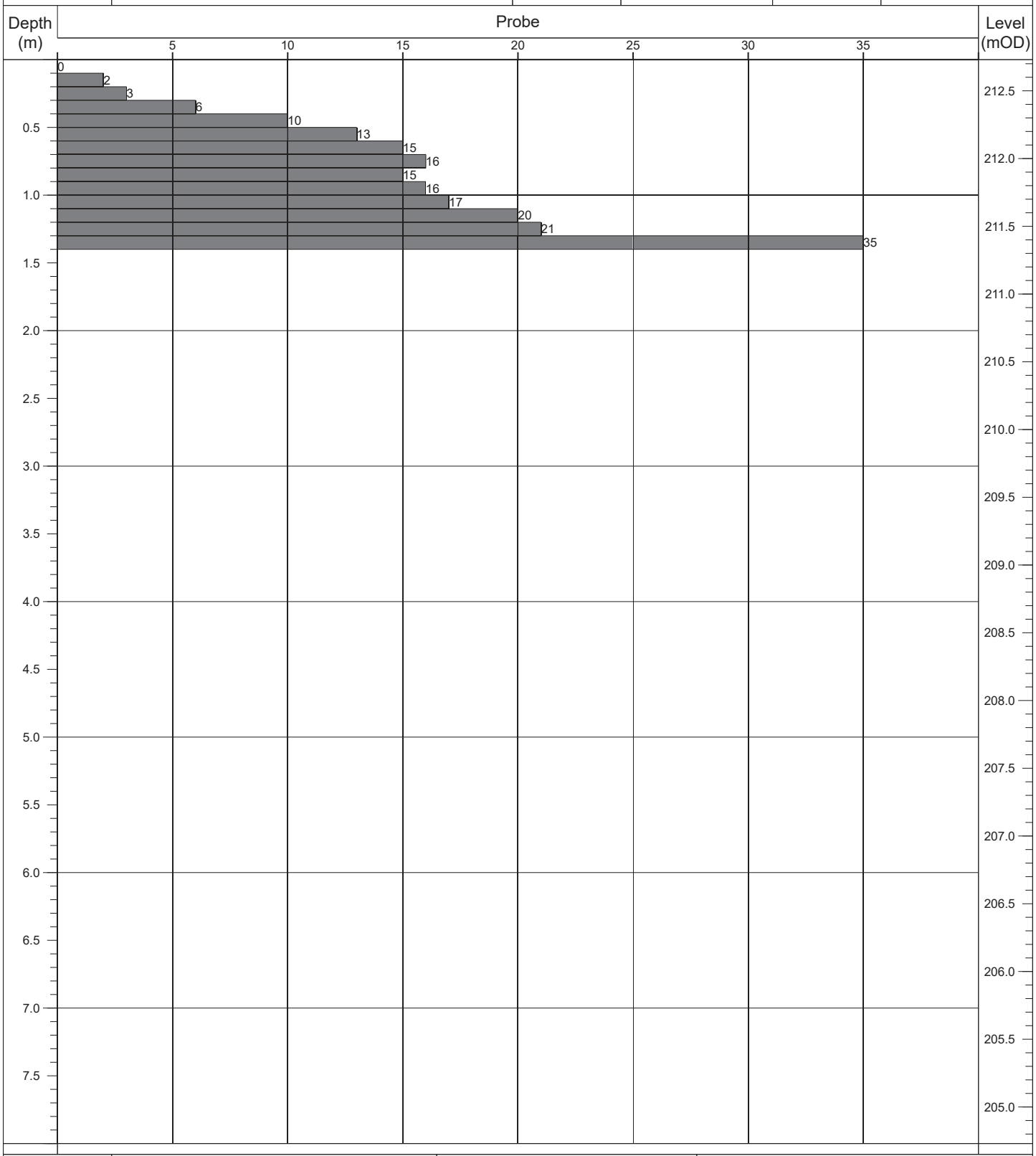
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP056**
Contract:	Blessington - Phase 3	Easting:	697789.711	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715483.490	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.42	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



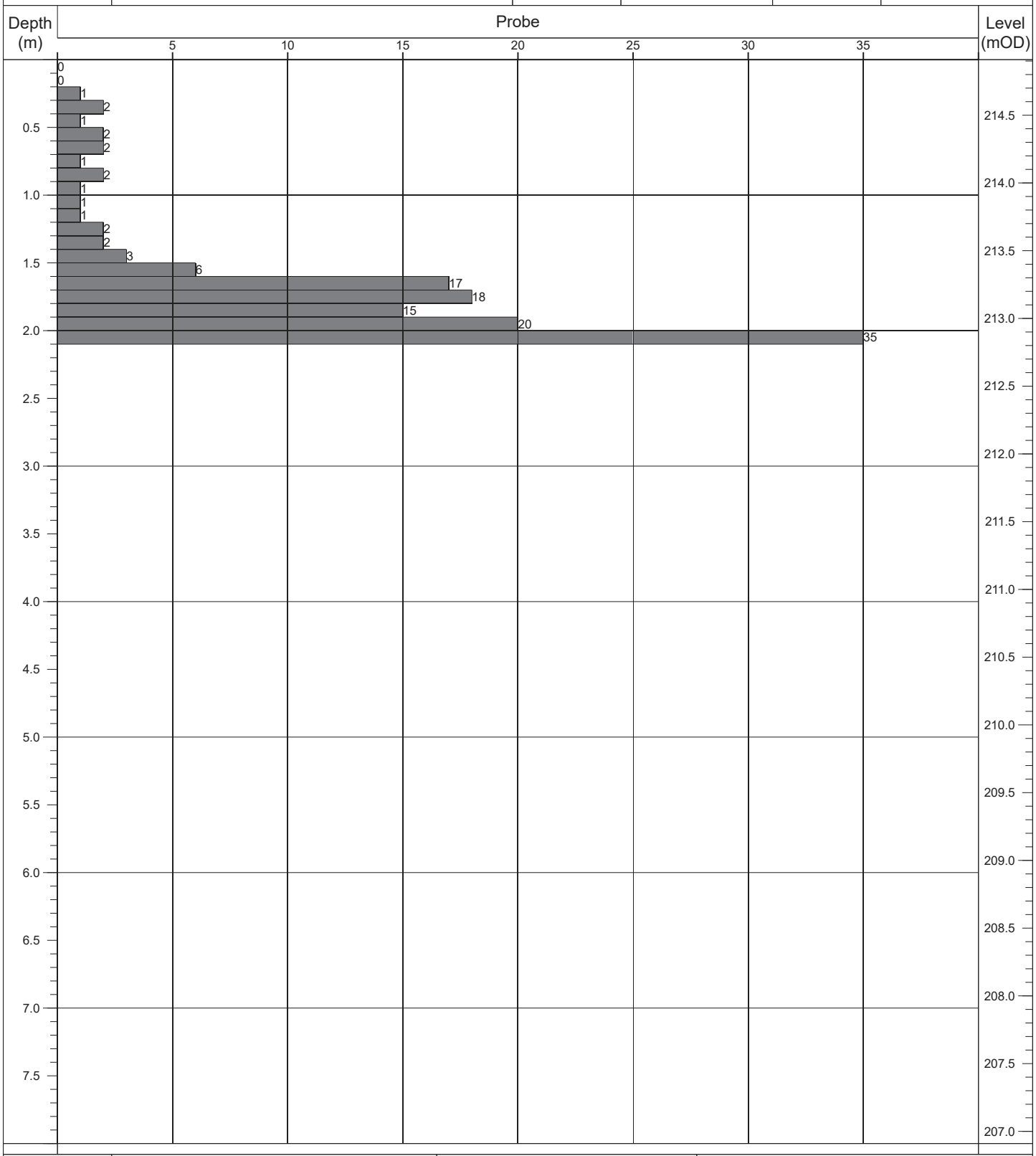
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP057
Contract:	Blessington - Phase 3	Easting:	697793.360	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715486.515	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.73	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



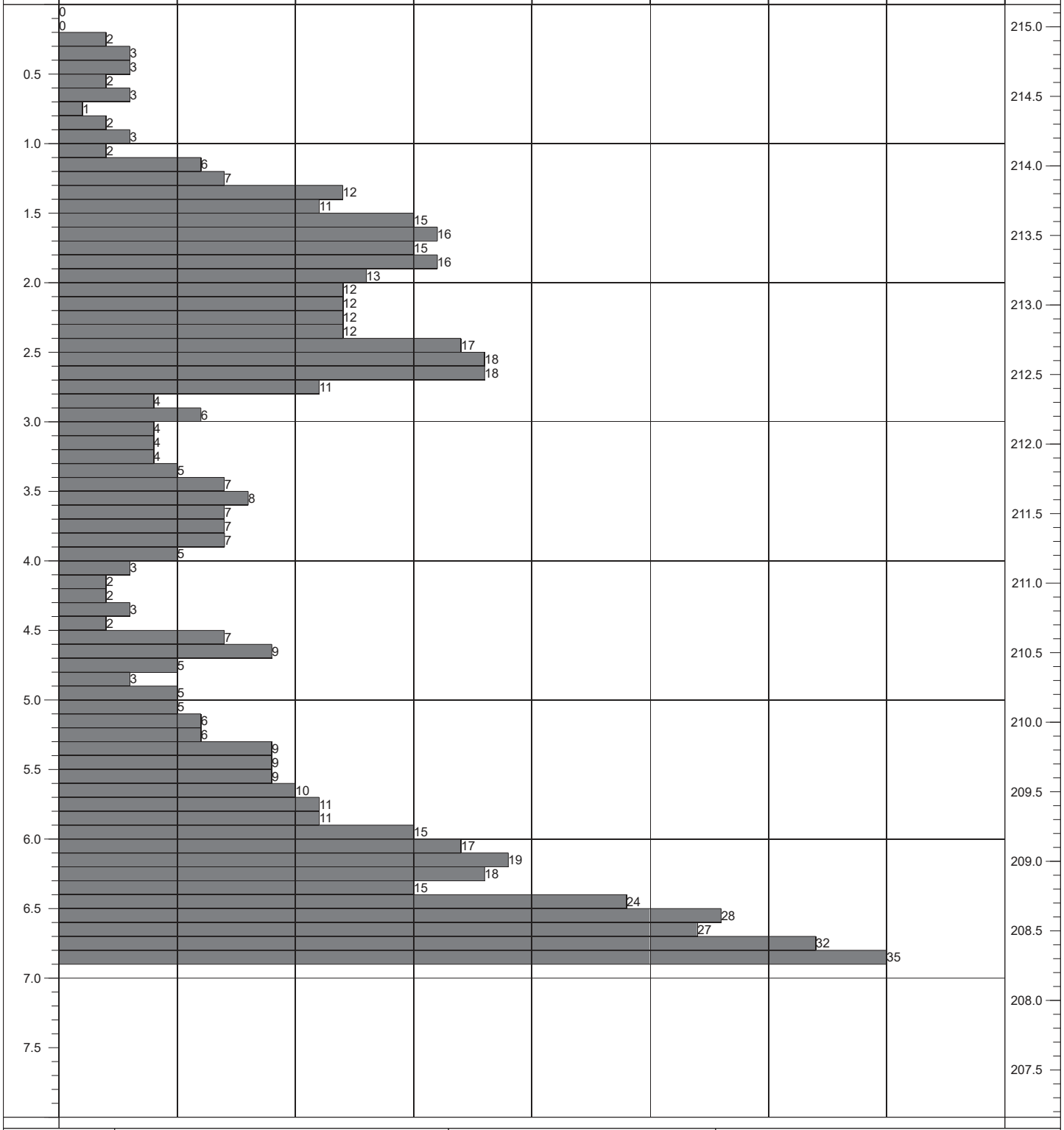
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP058**
Contract:	Blessington - Phase 3	Easting:	697830.518	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715385.118	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.91	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



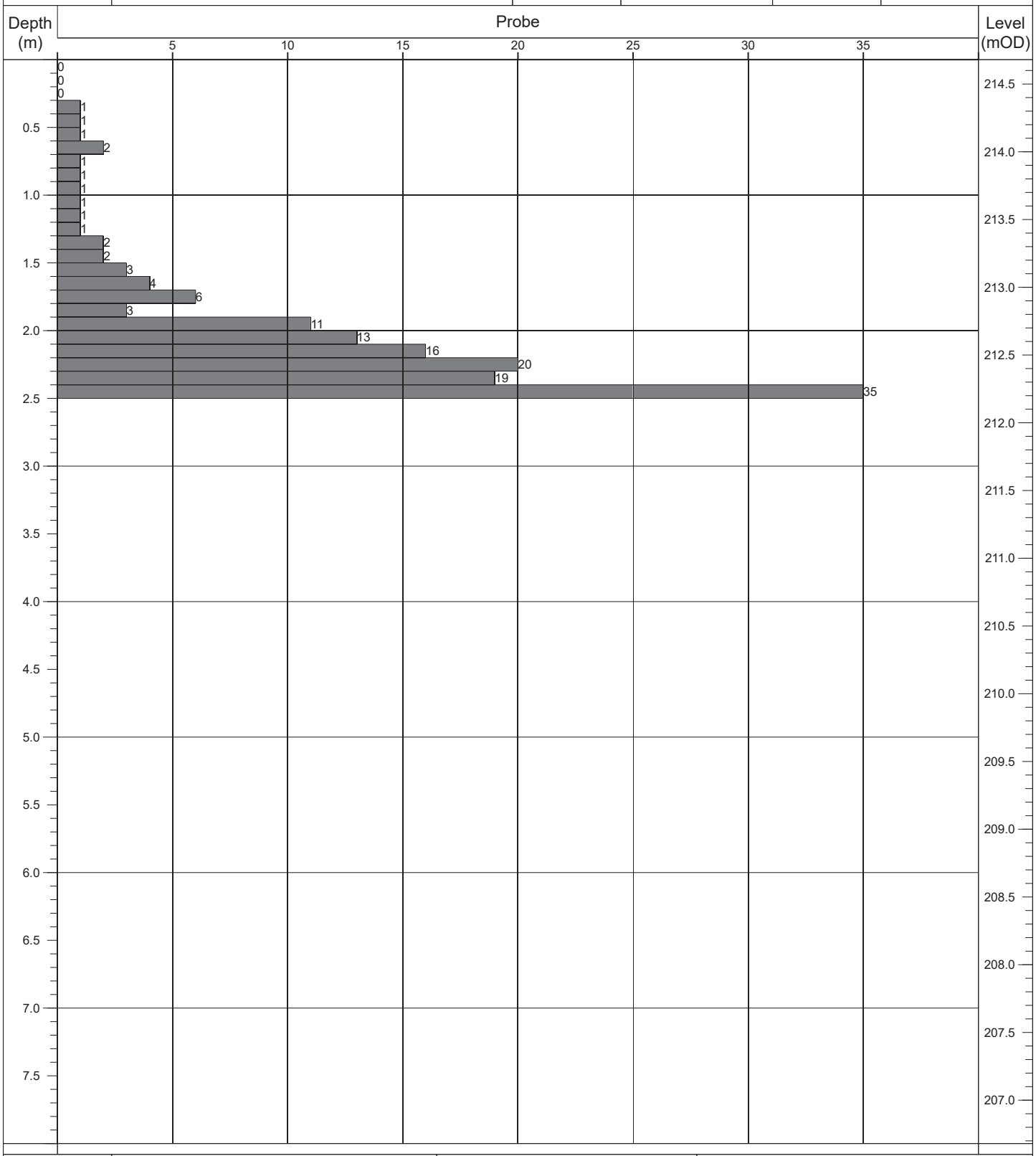
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP059**
Contract:	Blessington - Phase 3	Easting:	697836.016	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715391.079	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.16	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



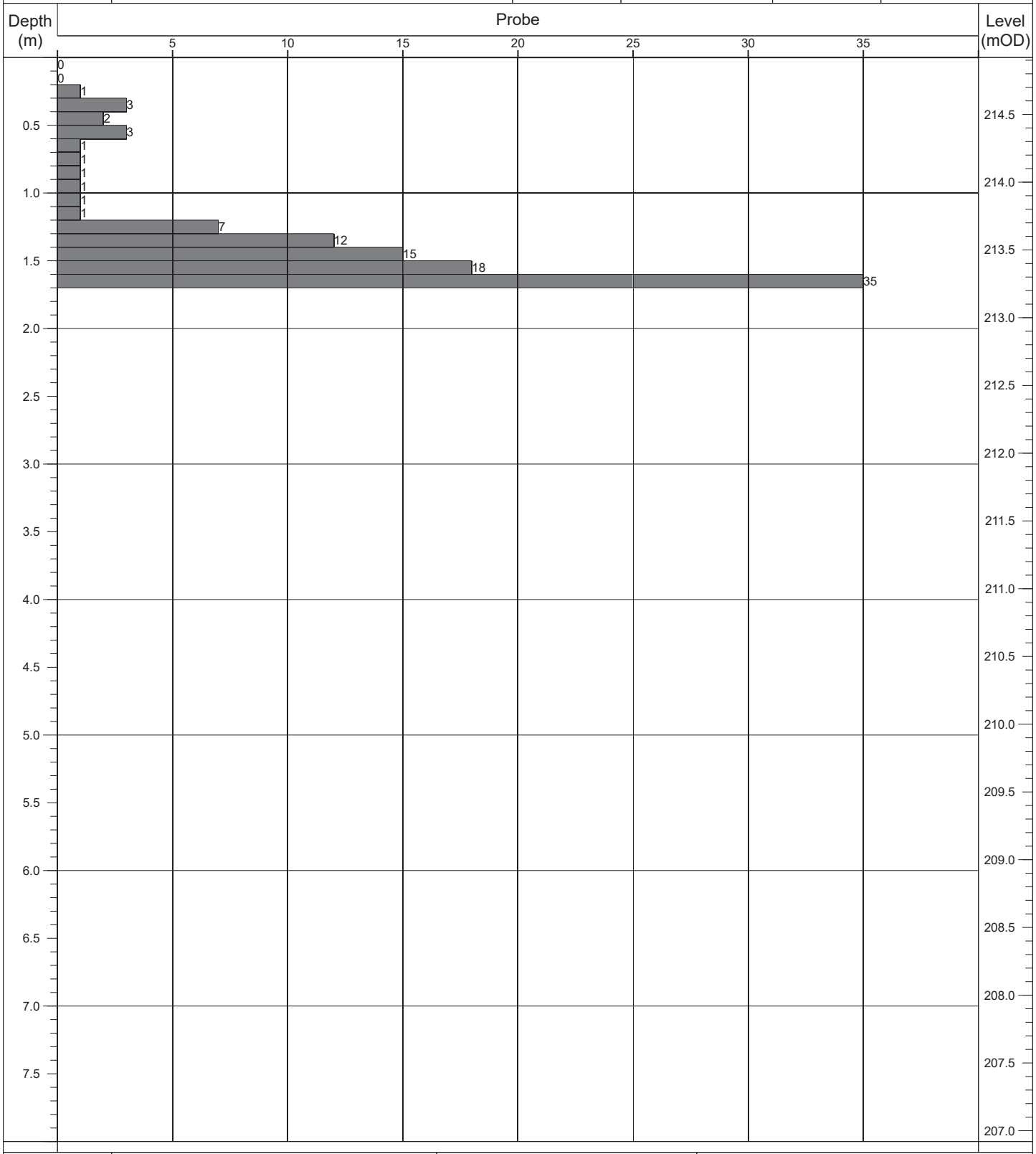
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP060**
Contract:	Blessington - Phase 3	Easting:	697823.237	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715377.666	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.68	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



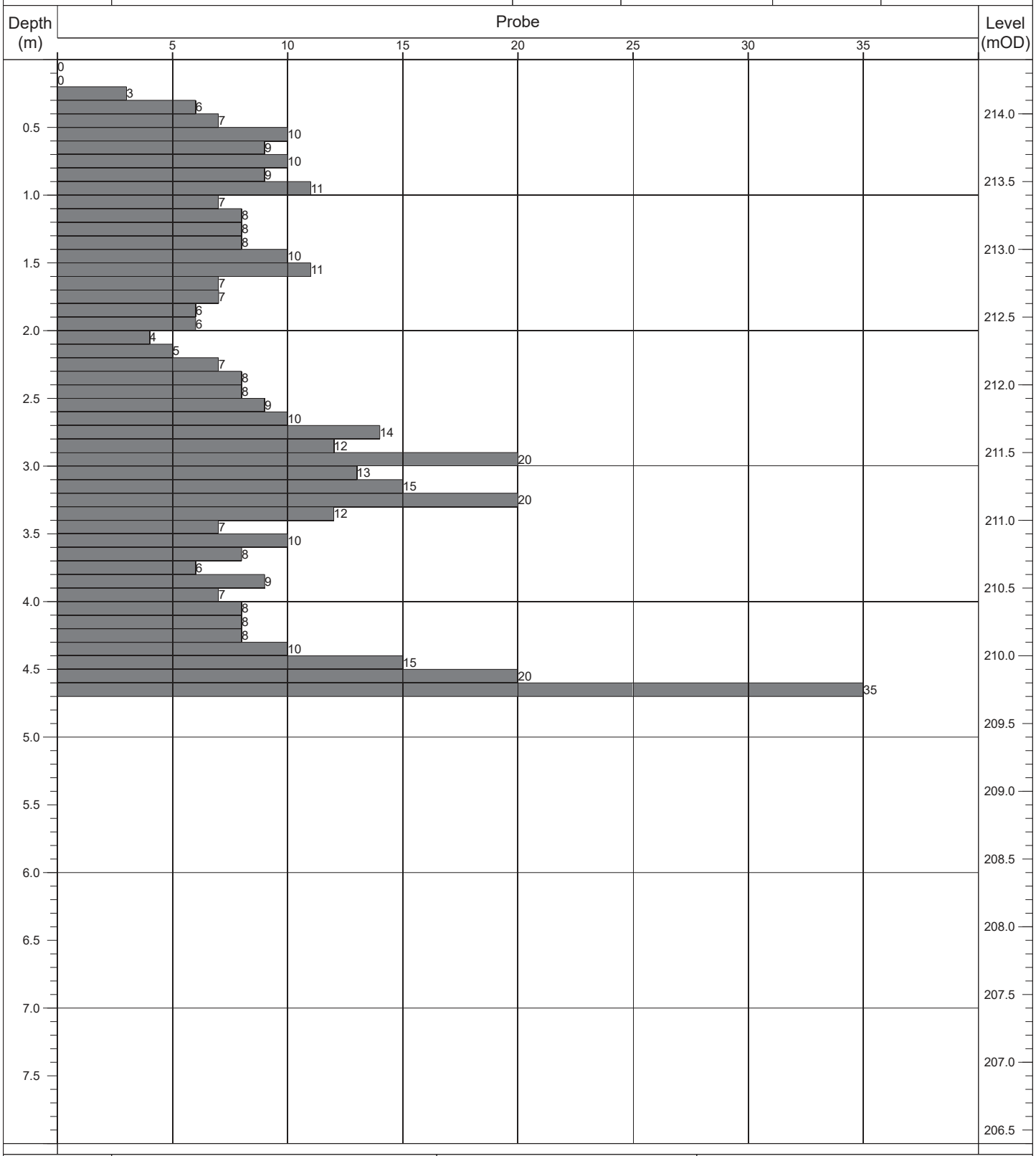
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP061**
Contract:	Blessington - Phase 3	Easting:	697826.936	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715381.861	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.92	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



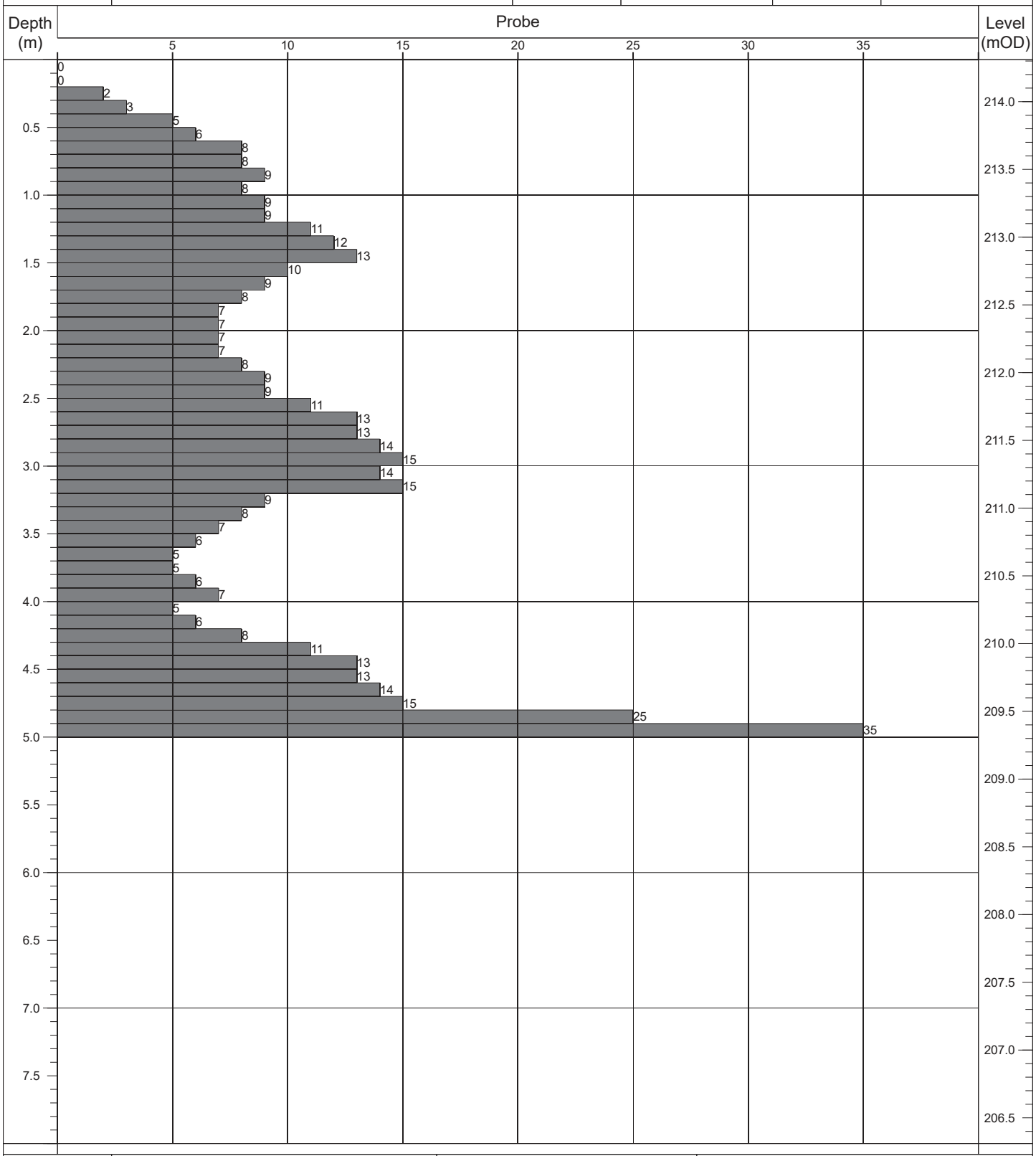
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP063
Contract:	Blessington - Phase 3	Easting:	697810.789	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715459.631	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.40	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



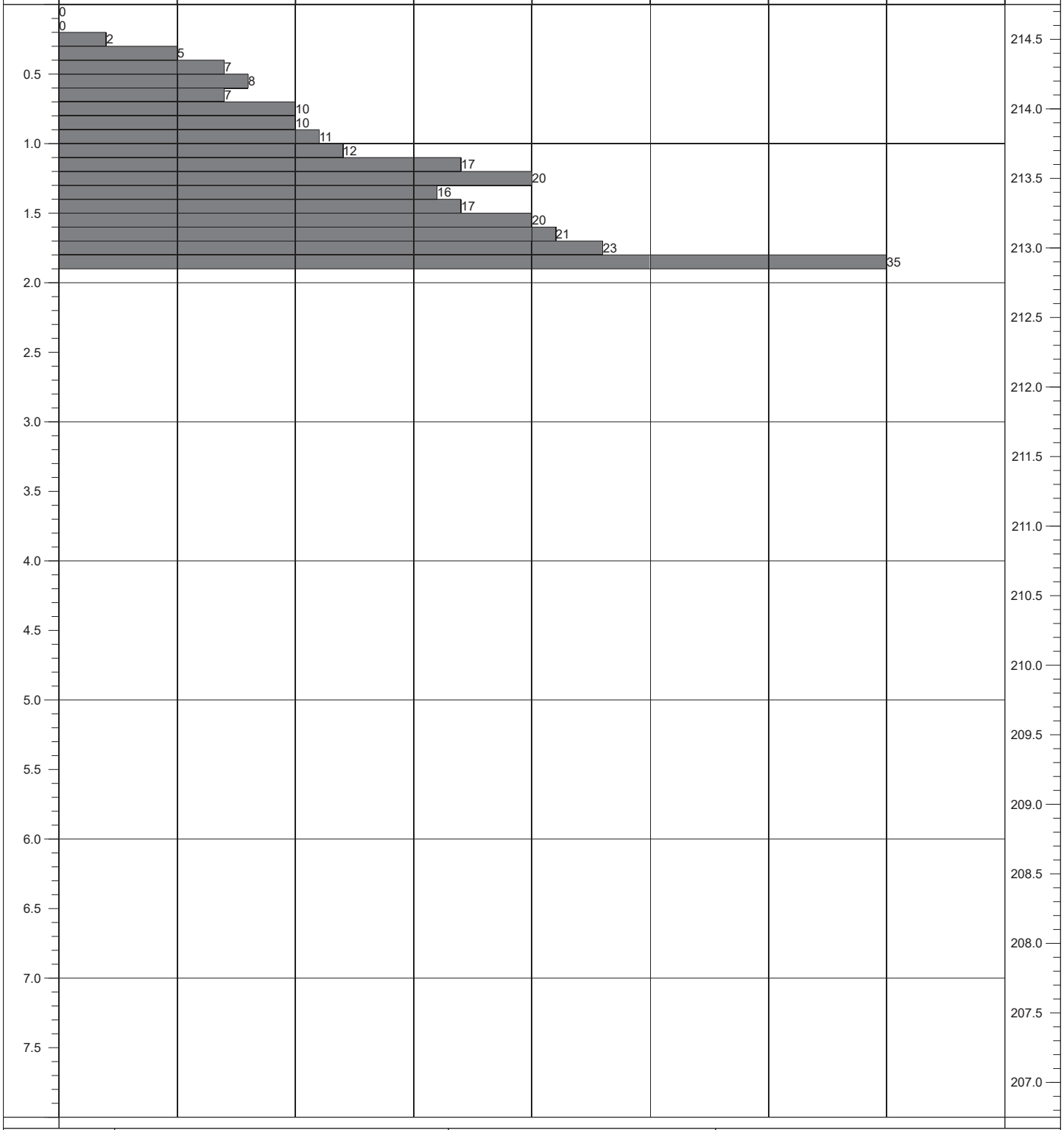
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP064**
Contract:	Blessington - Phase 3	Easting:	697807.082	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715463.192	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.31	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



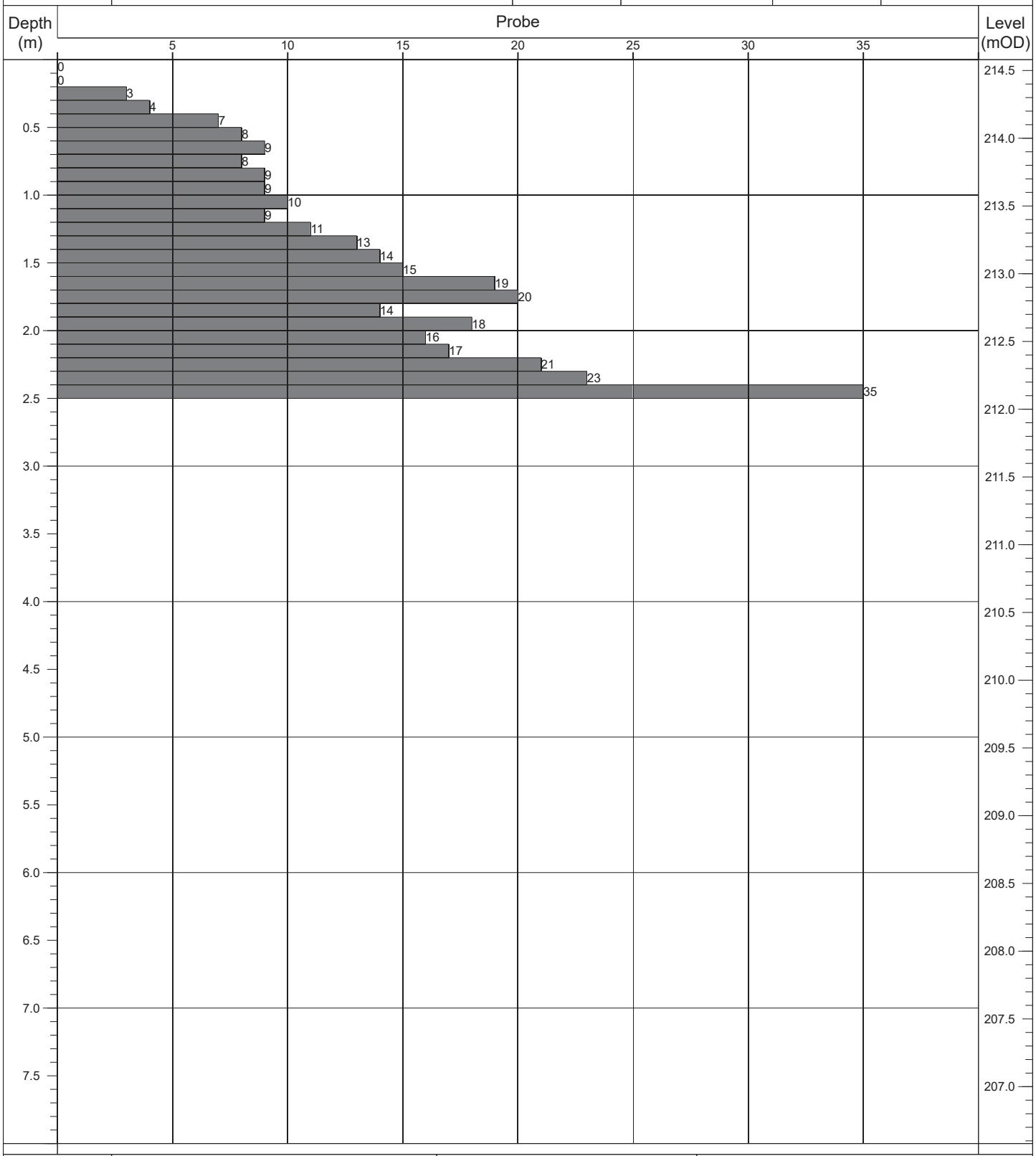
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP065
Contract:	Blessington - Phase 3	Easting:	697820.923	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715450.651	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.75	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



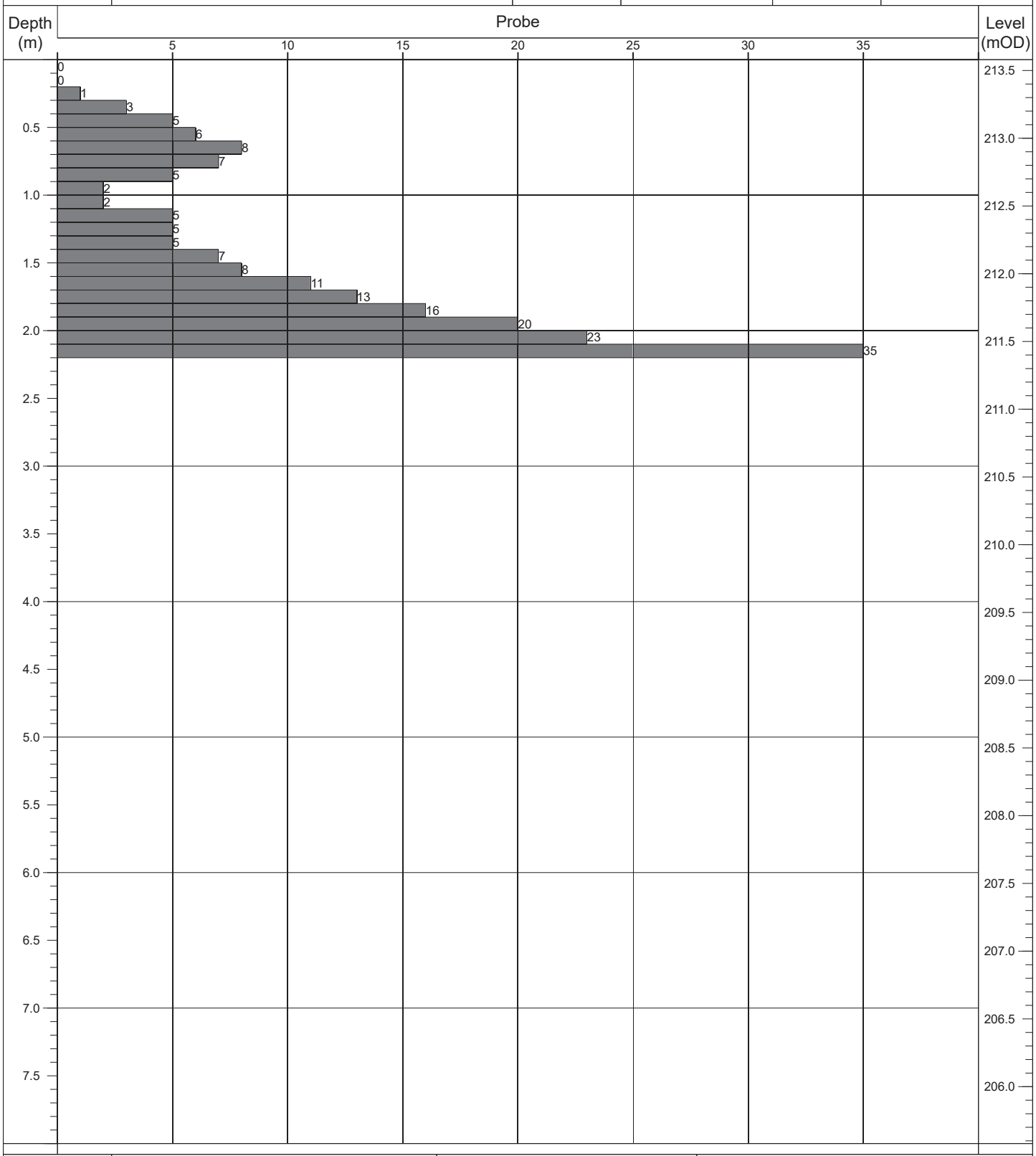
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP066**
Contract:	Blessington - Phase 3	Easting:	697816.949	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715454.816	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.58	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



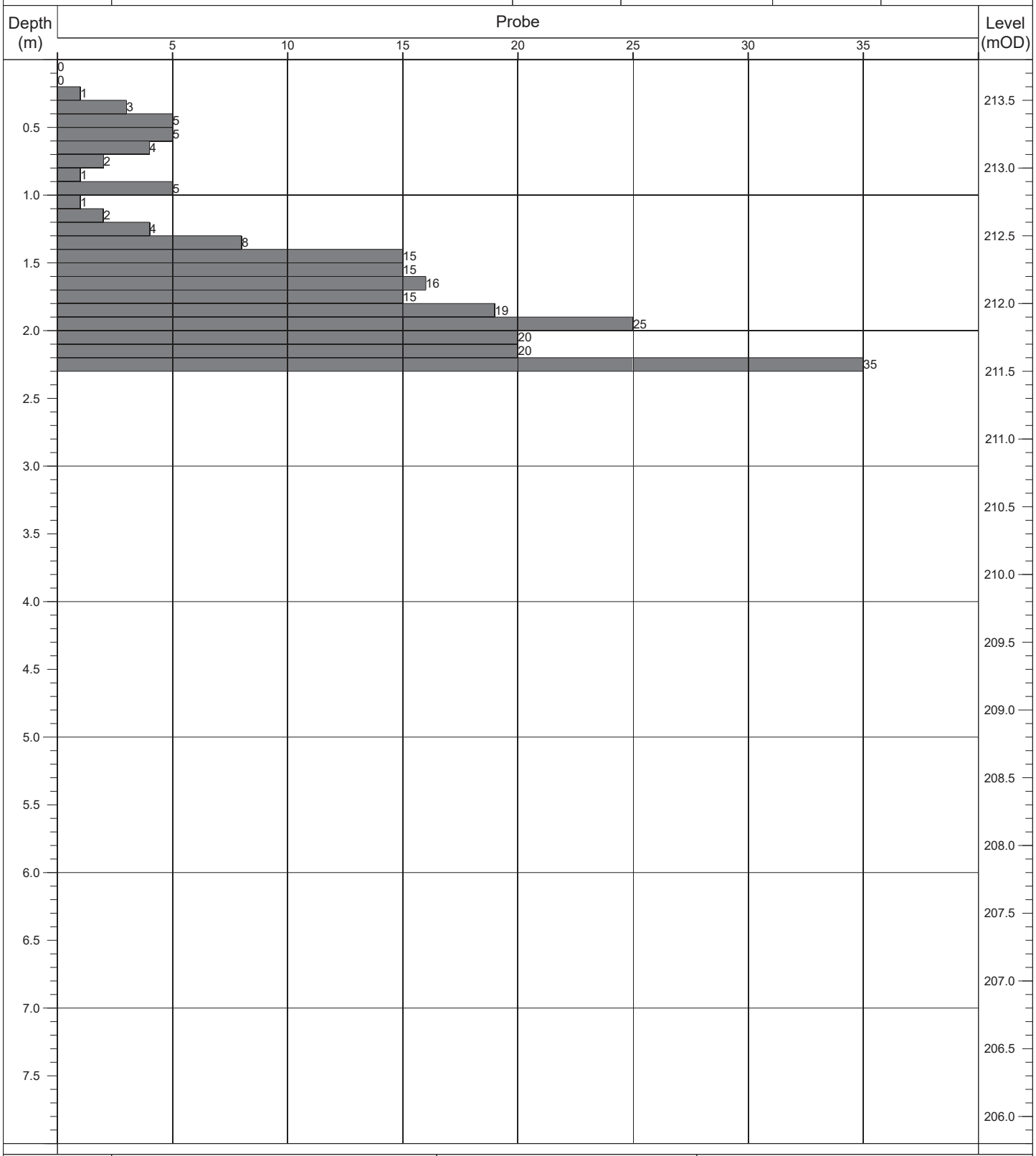
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP067**
Contract:	Blessington - Phase 3	Easting:	697775.866	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715469.308	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.58	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



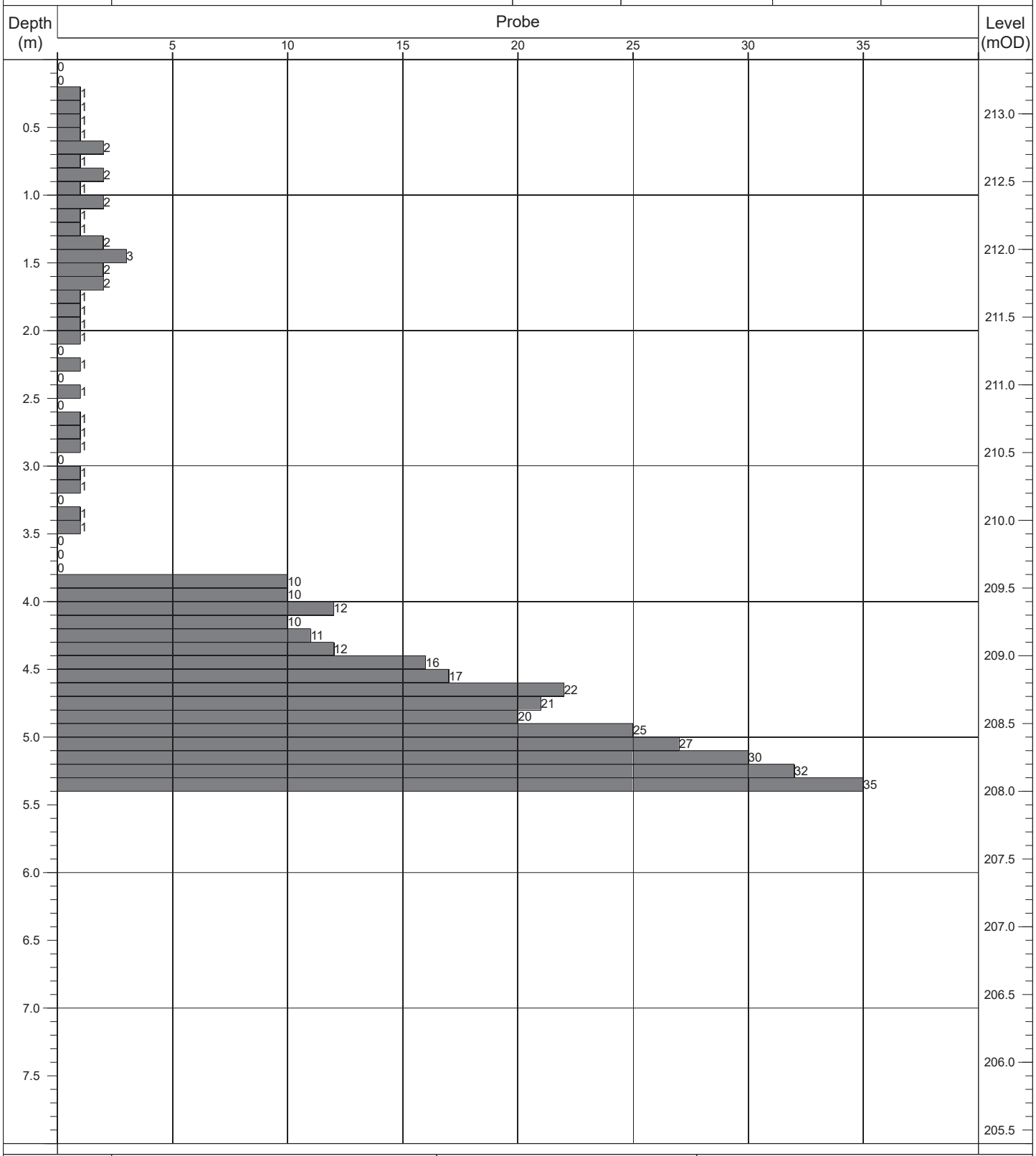
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP068**
Contract:	Blessington - Phase 3	Easting:	697779.938	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715473.402	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.80	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



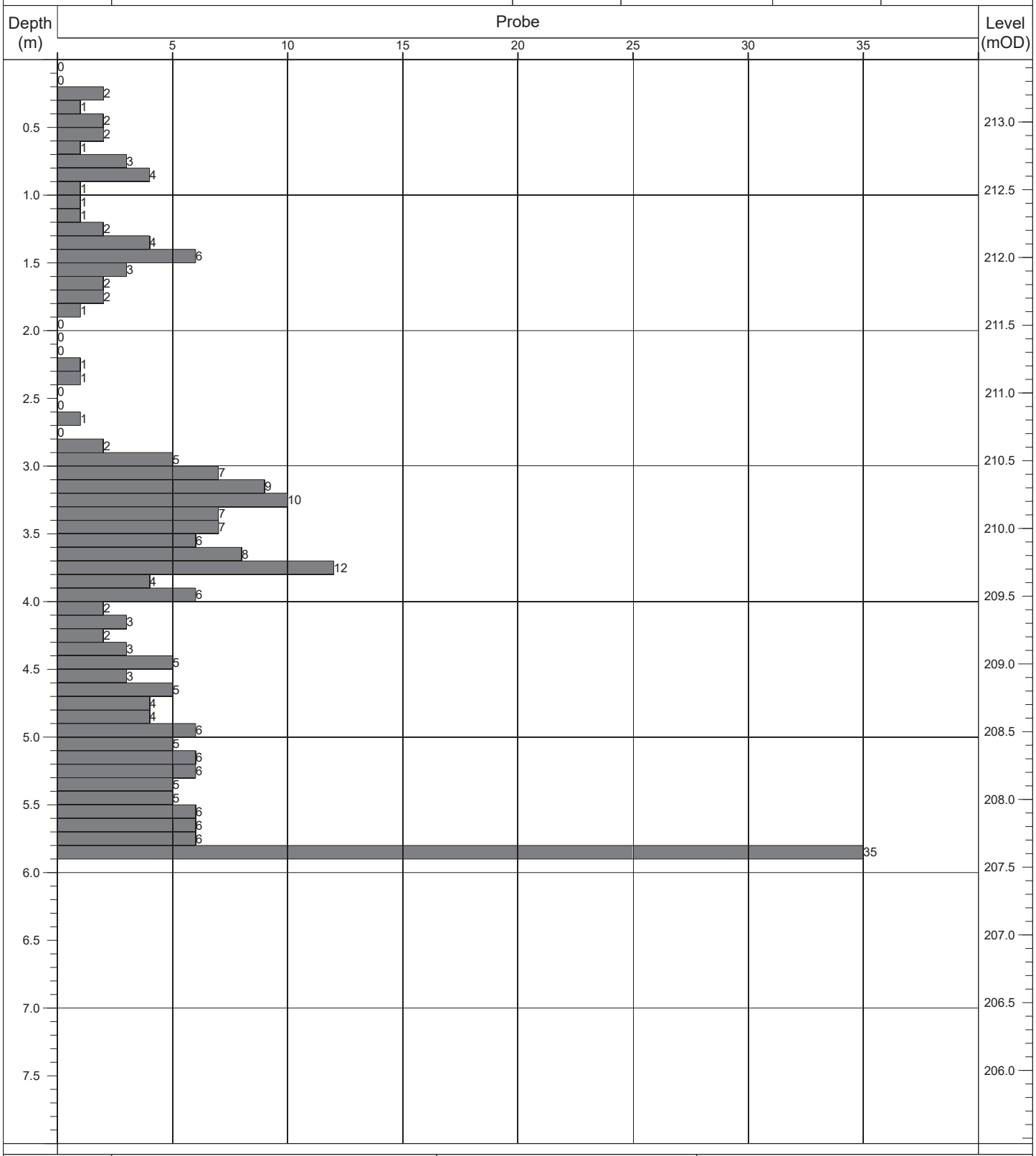
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP069
Contract:	Blessington - Phase 3	Easting:	697768.212	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715461.763	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.40	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



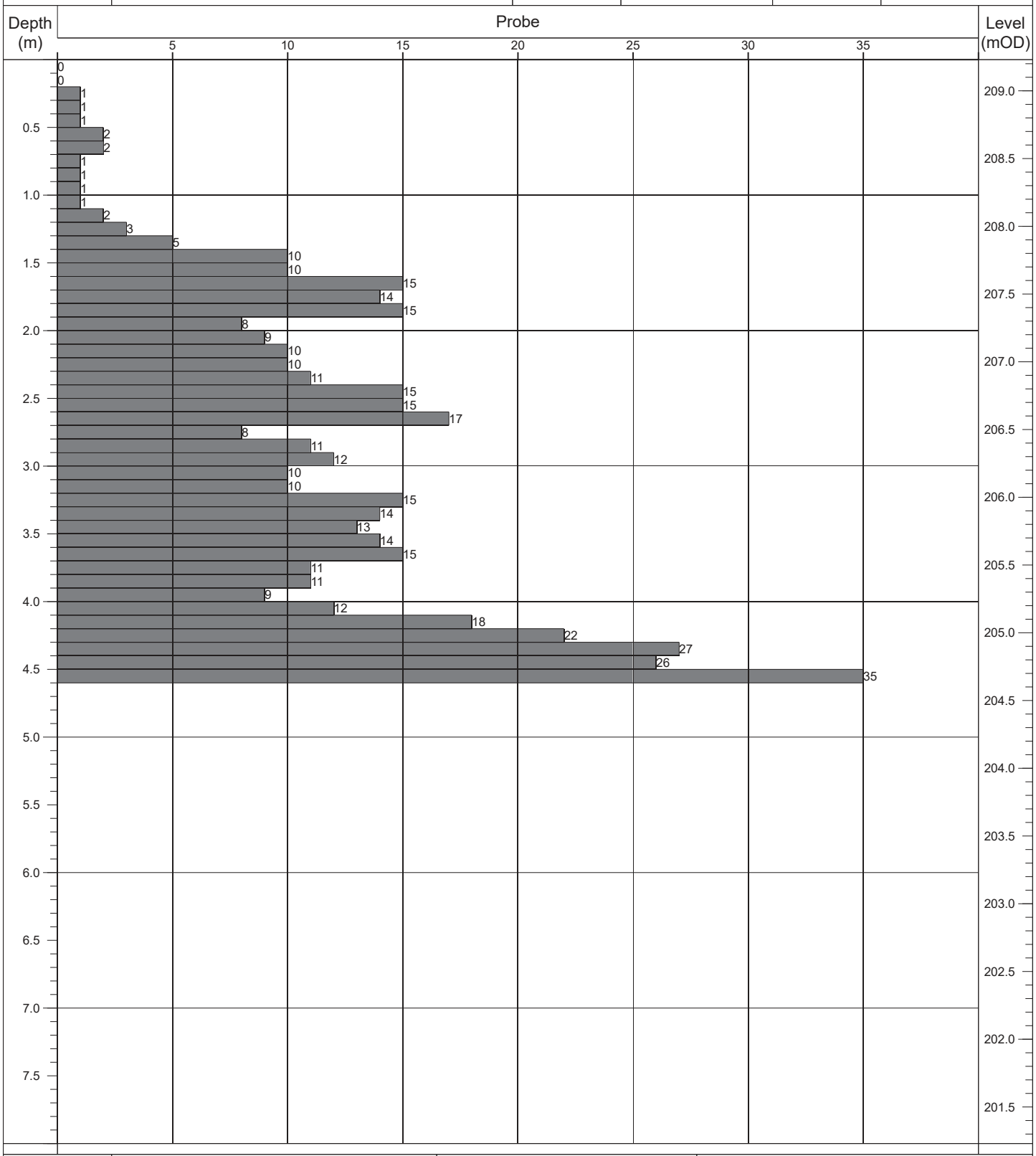
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP070**
Contract:	Blessington - Phase 3	Easting:	697772.021	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715465.439	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.46	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



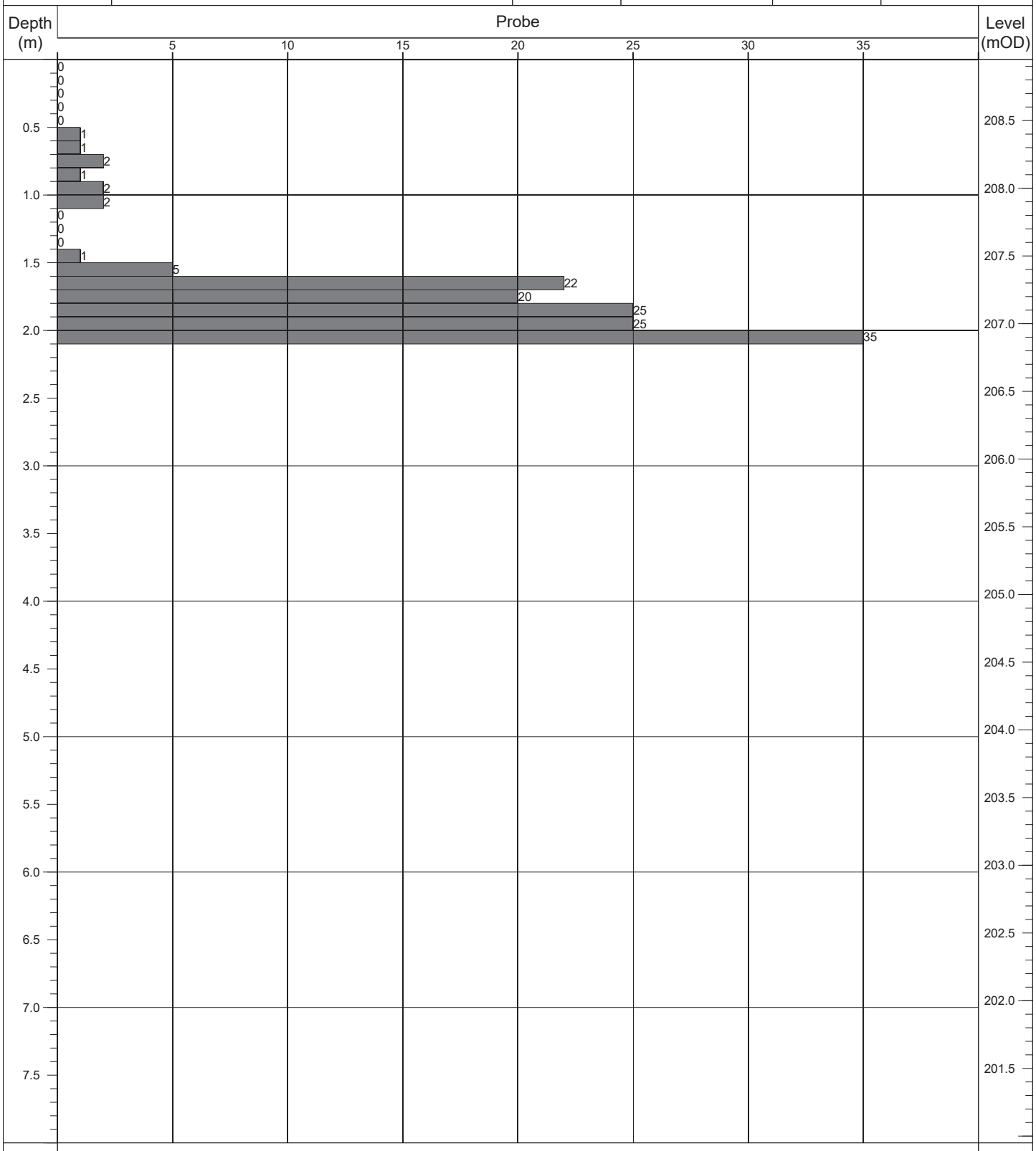
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP073
Contract:	Blessington - Phase 3	Easting:	697840.136	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715199.858	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	209.23	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



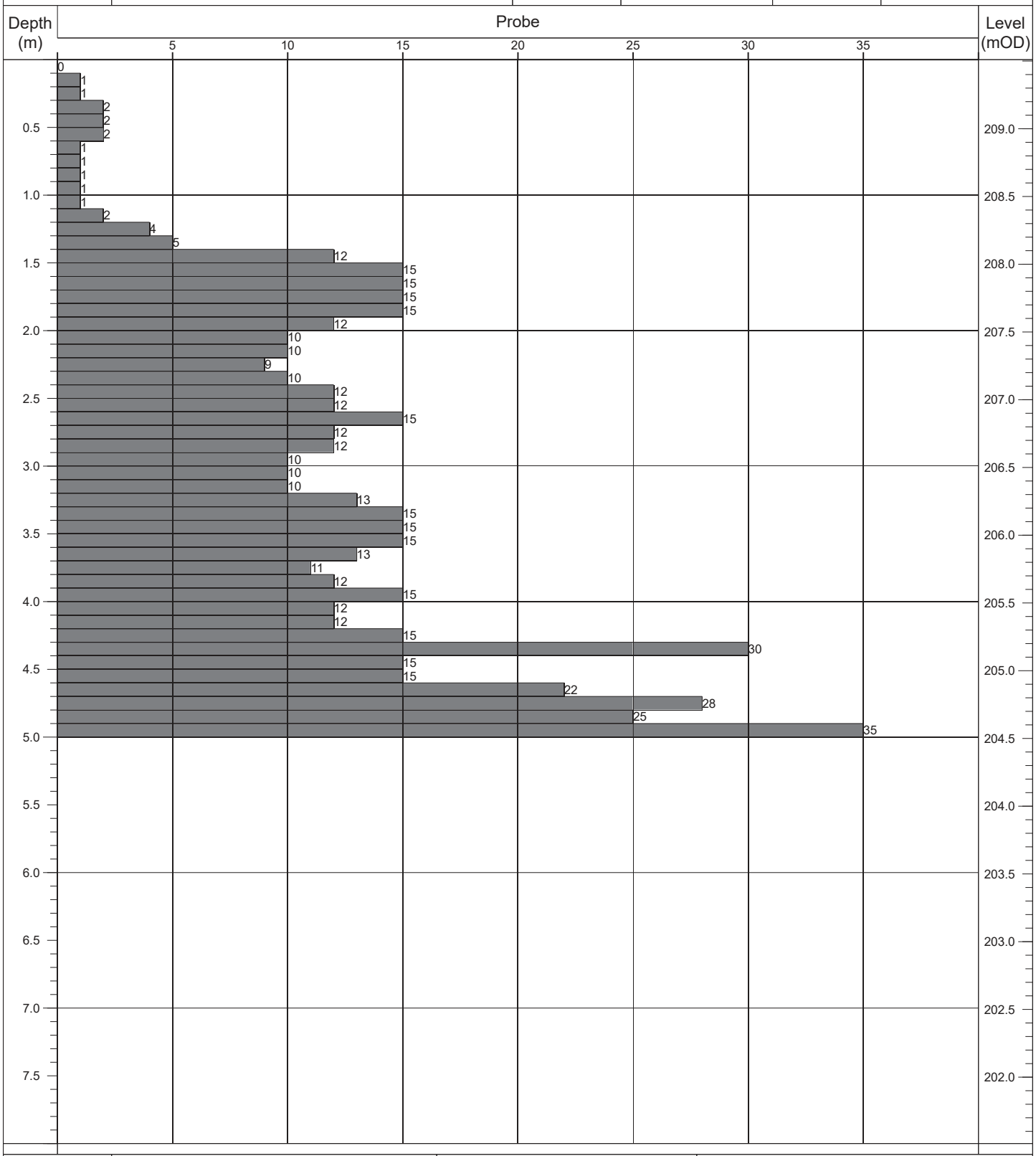
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP074
Contract:	Blessington - Phase 3	Easting:	697845.579	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715205.066	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	208.95	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



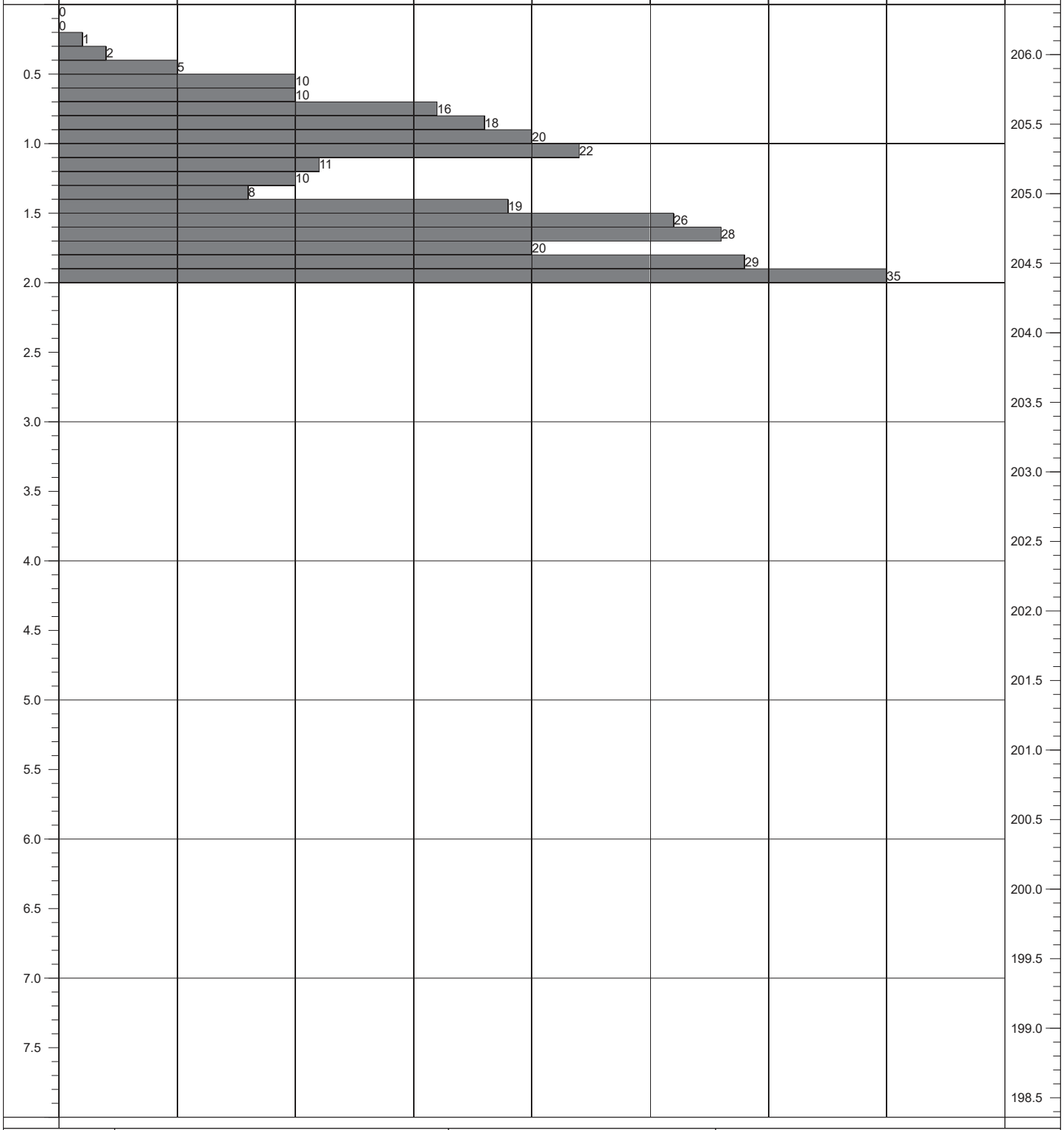
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP079
Contract:	Blessington - Phase 3	Easting:	697836.070	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715195.103	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	209.51	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



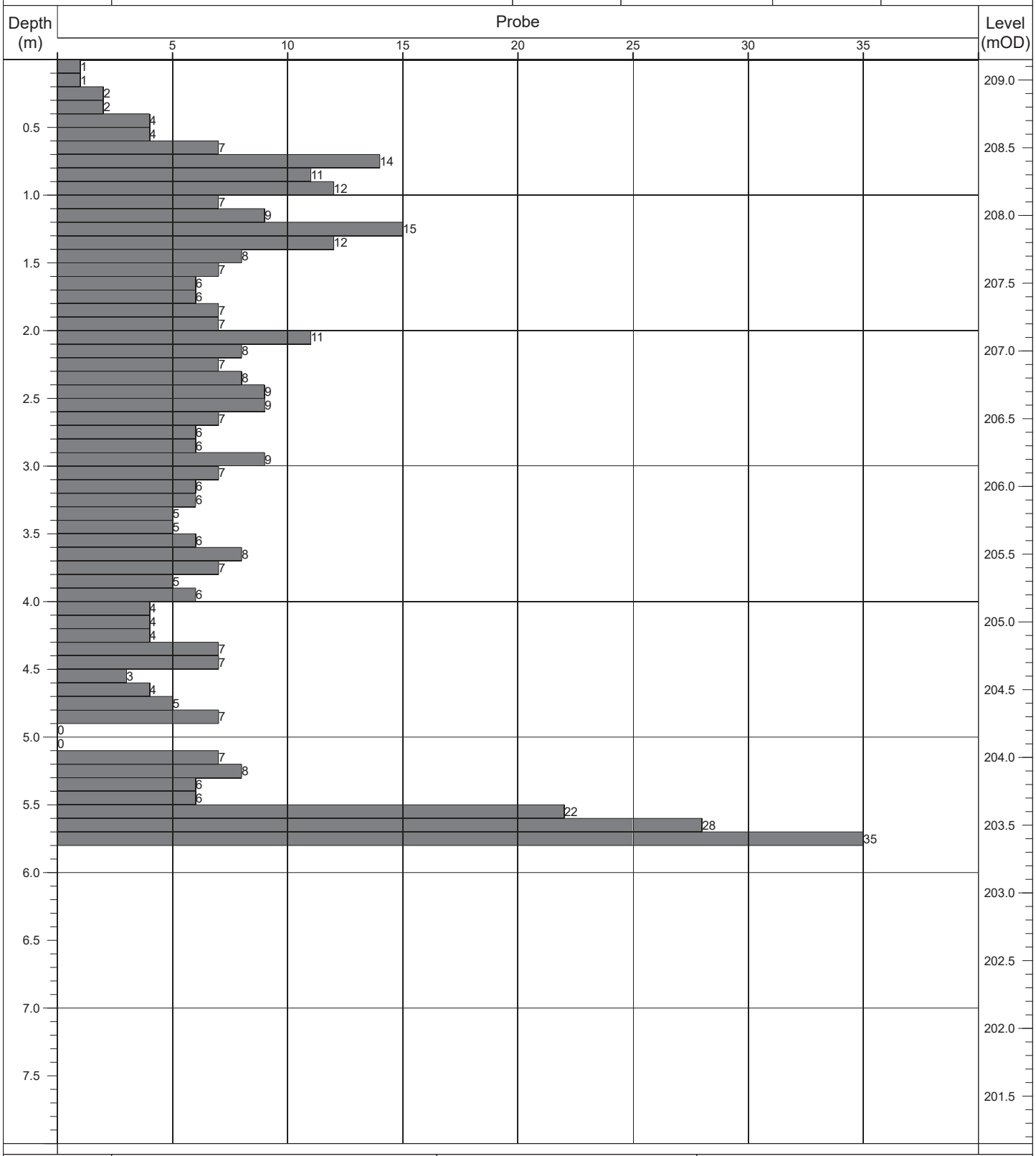
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP081
Contract:	Blessington - Phase 3	Easting:	697874.968	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715148.318	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	206.36	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



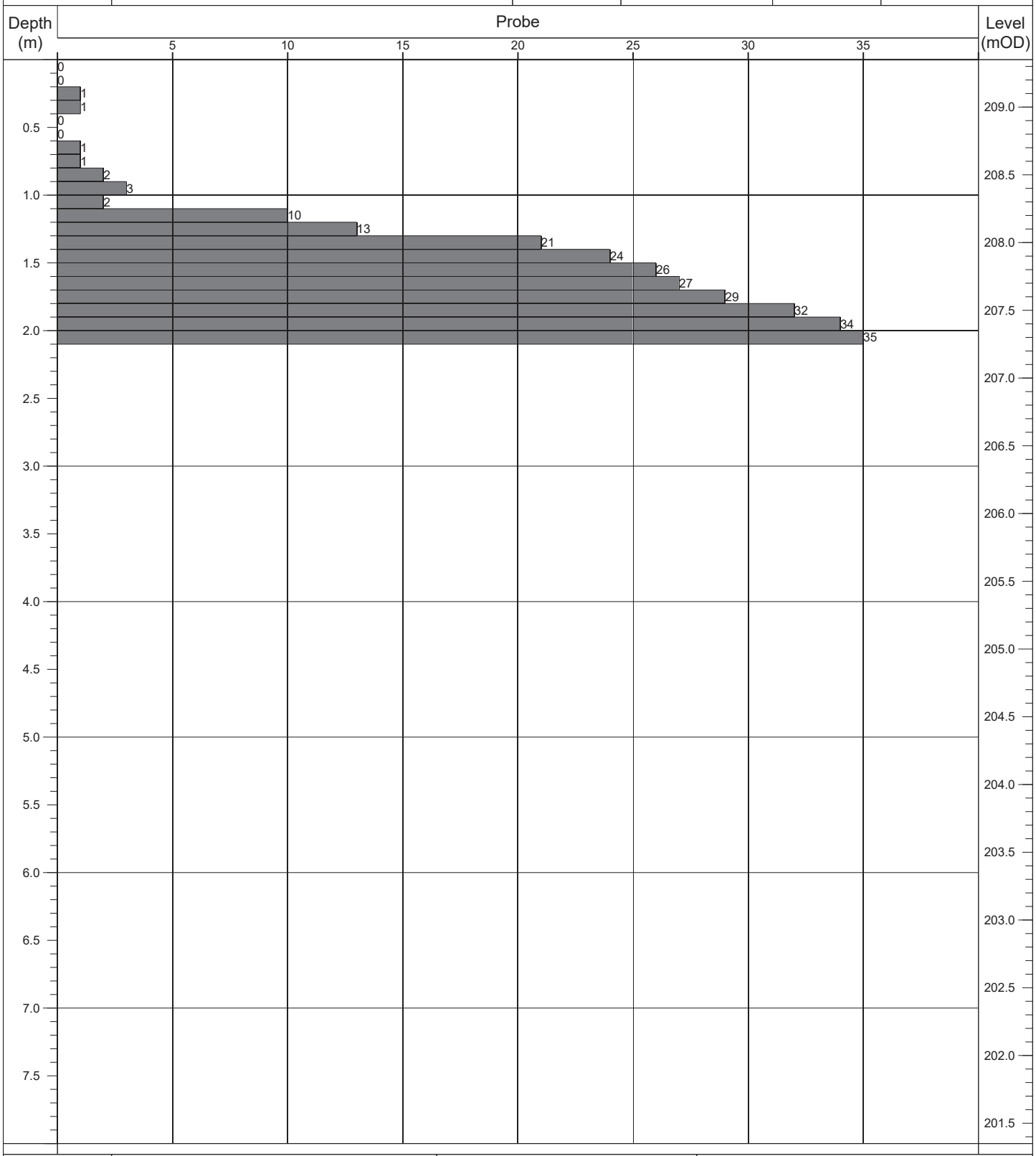
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP088**
Contract:	Blessington - Phase 3	Easting:	698004.847	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715228.428	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.15	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



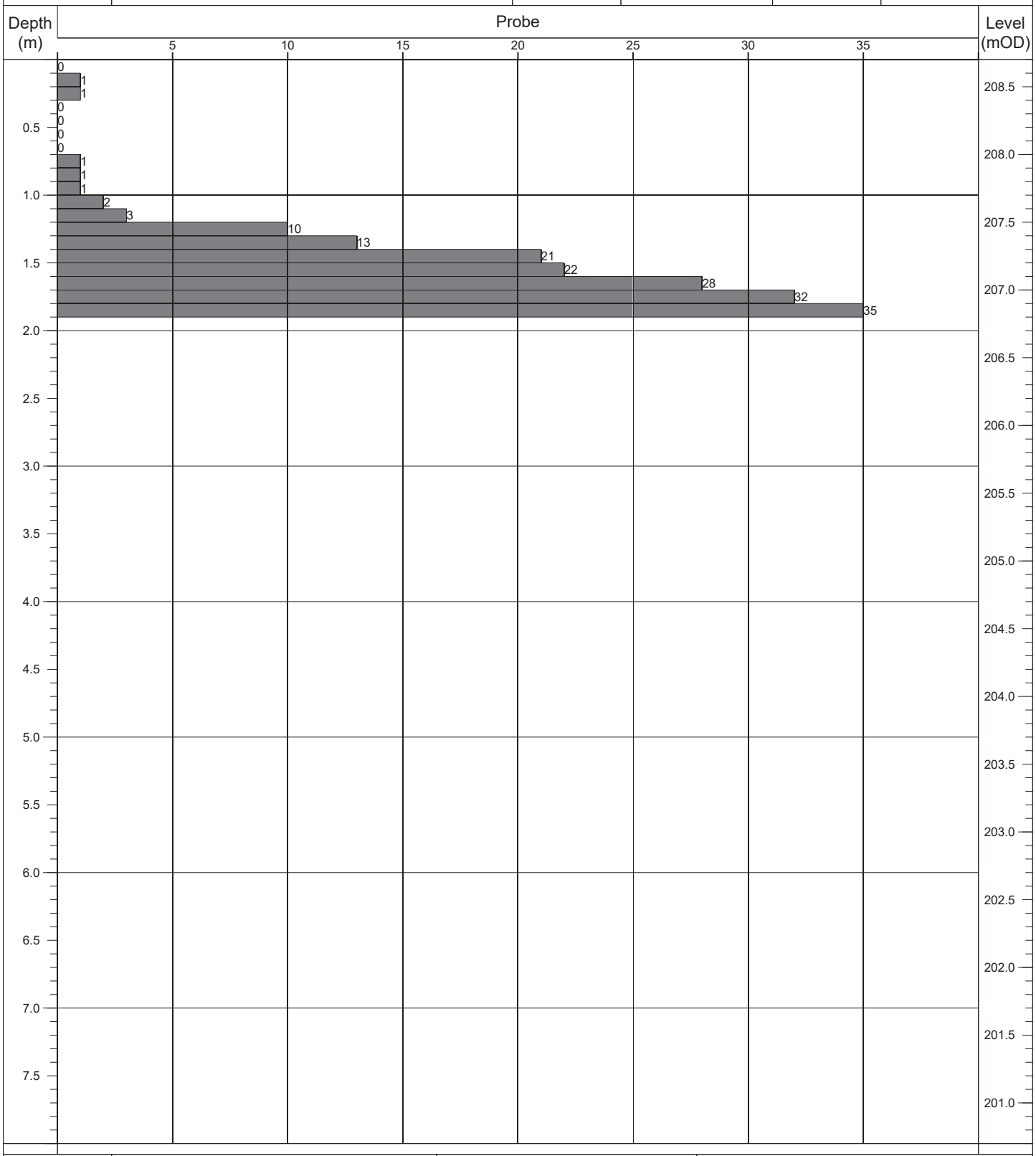
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP089**
Contract:	Blessington - Phase 3	Easting:	698000.382	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715232.524	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.35	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



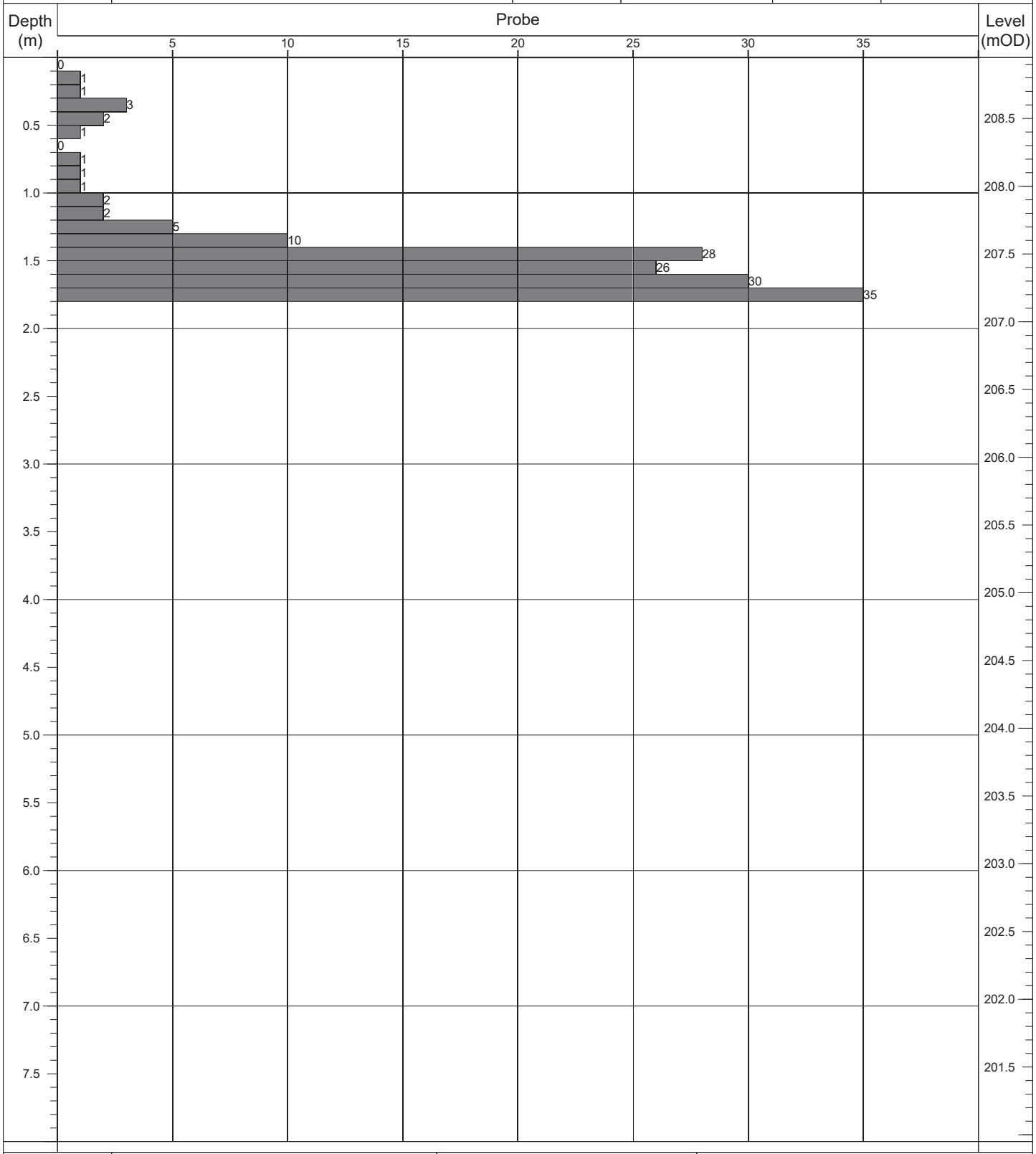
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP090
Contract:	Blessington - Phase 3	Easting:	698013.913	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715219.636	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	208.70	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



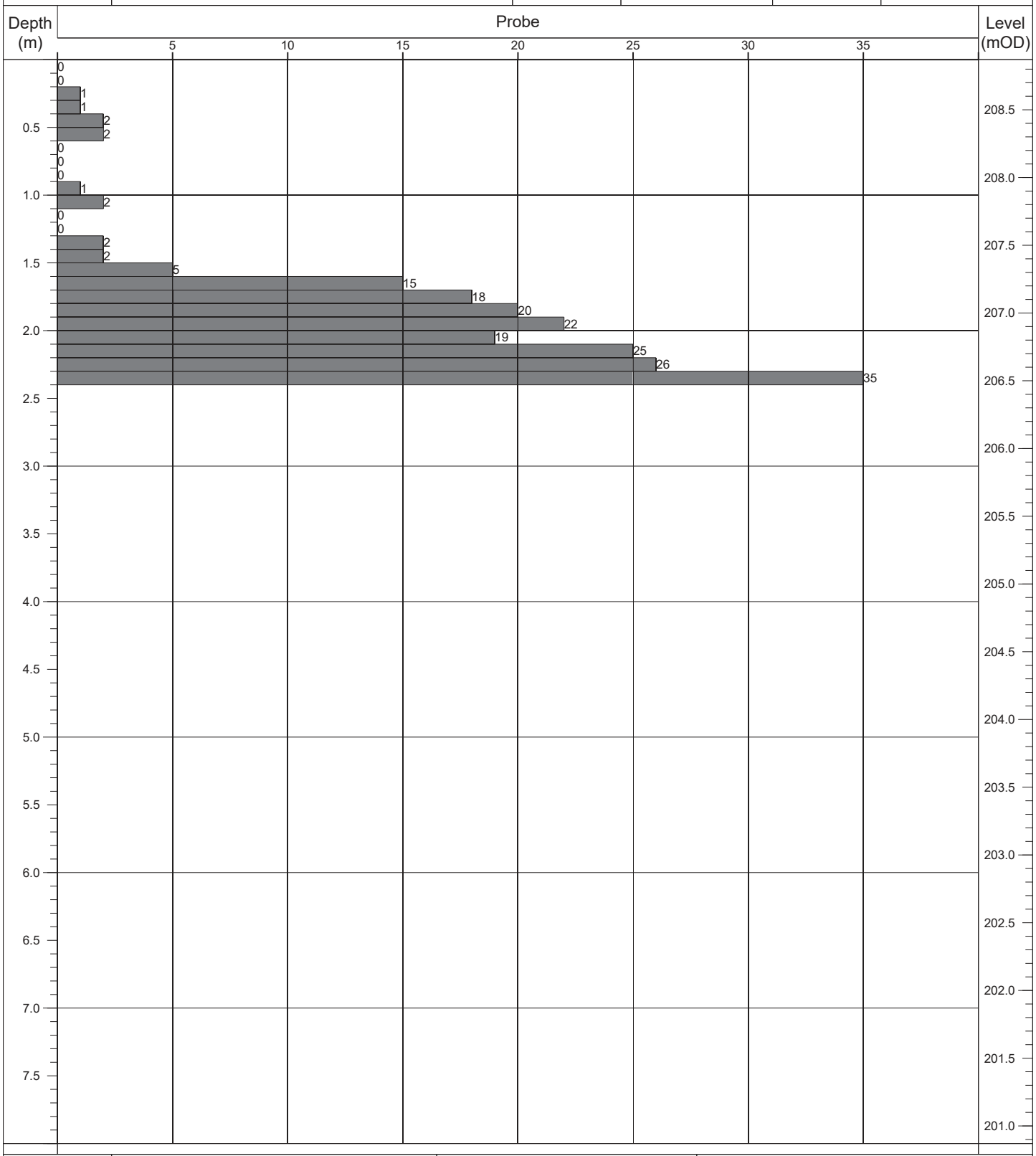
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP092**
Contract:	Blessington - Phase 3	Easting:	698009.114	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715224.187	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	208.95	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



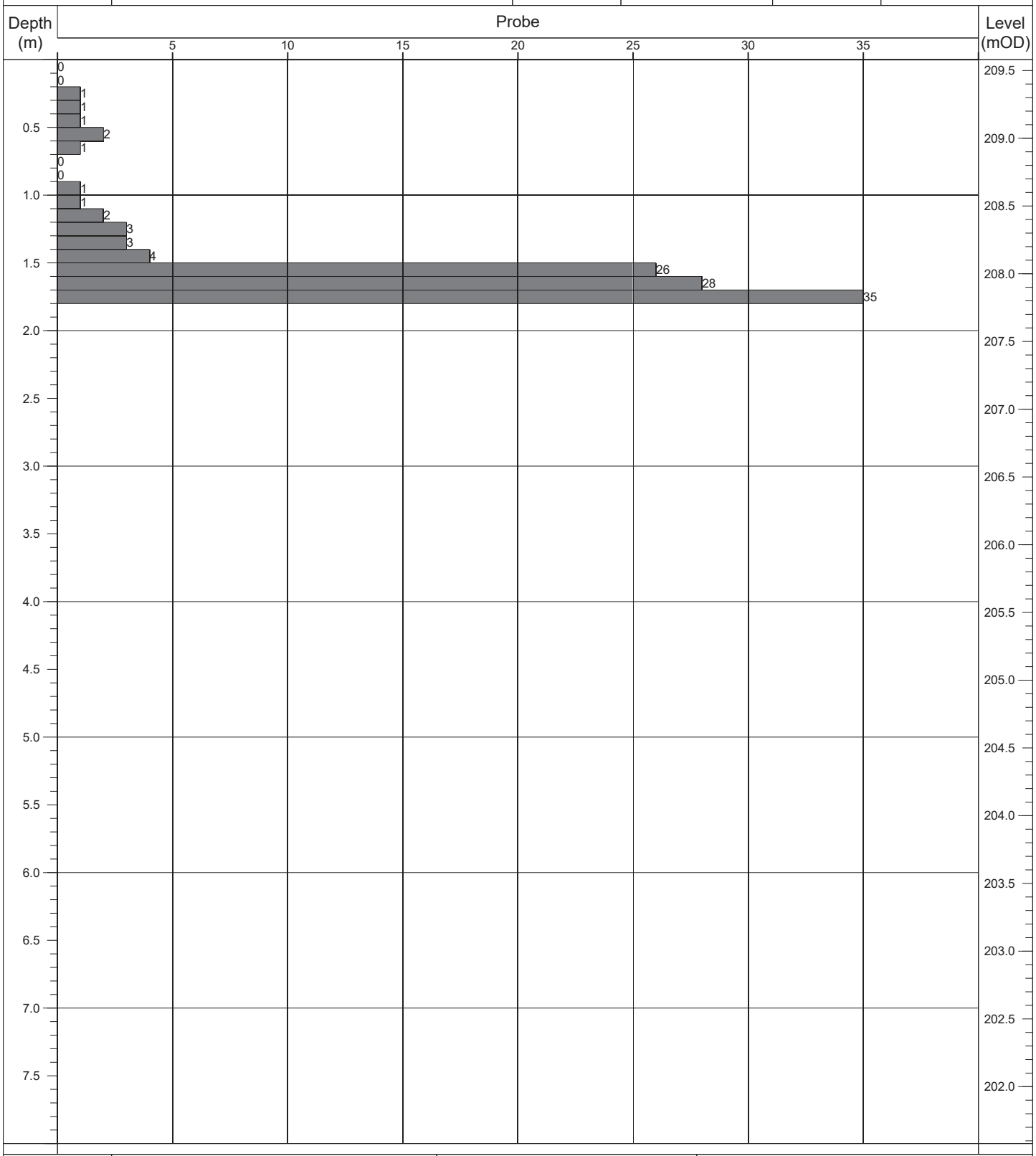
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP093**
Contract:	Blessington - Phase 3	Easting:	697849.702	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715209.439	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	208.87	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



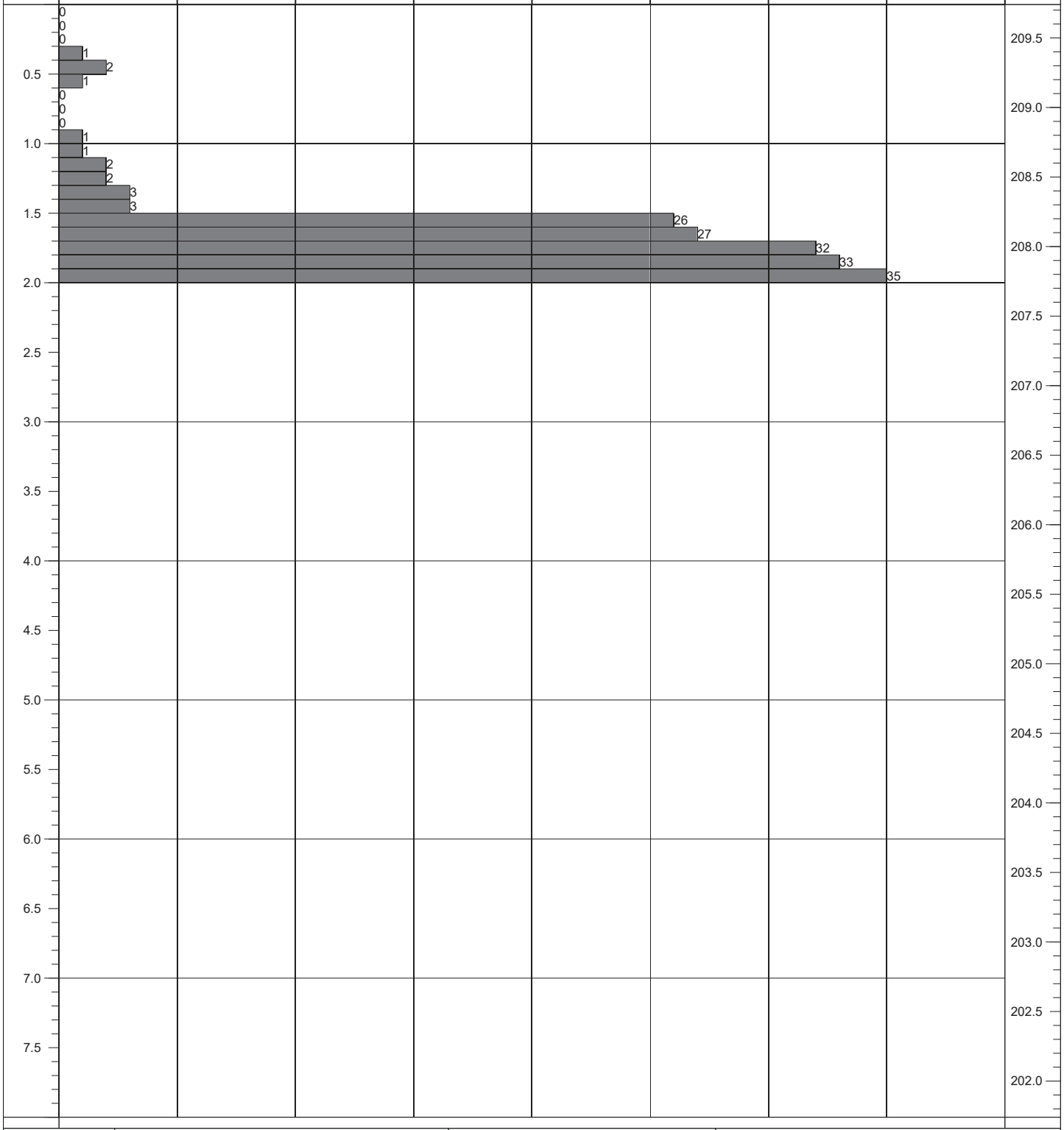
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP095
Contract:	Blessington - Phase 3	Easting:	697996.041	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715236.979	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.58	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



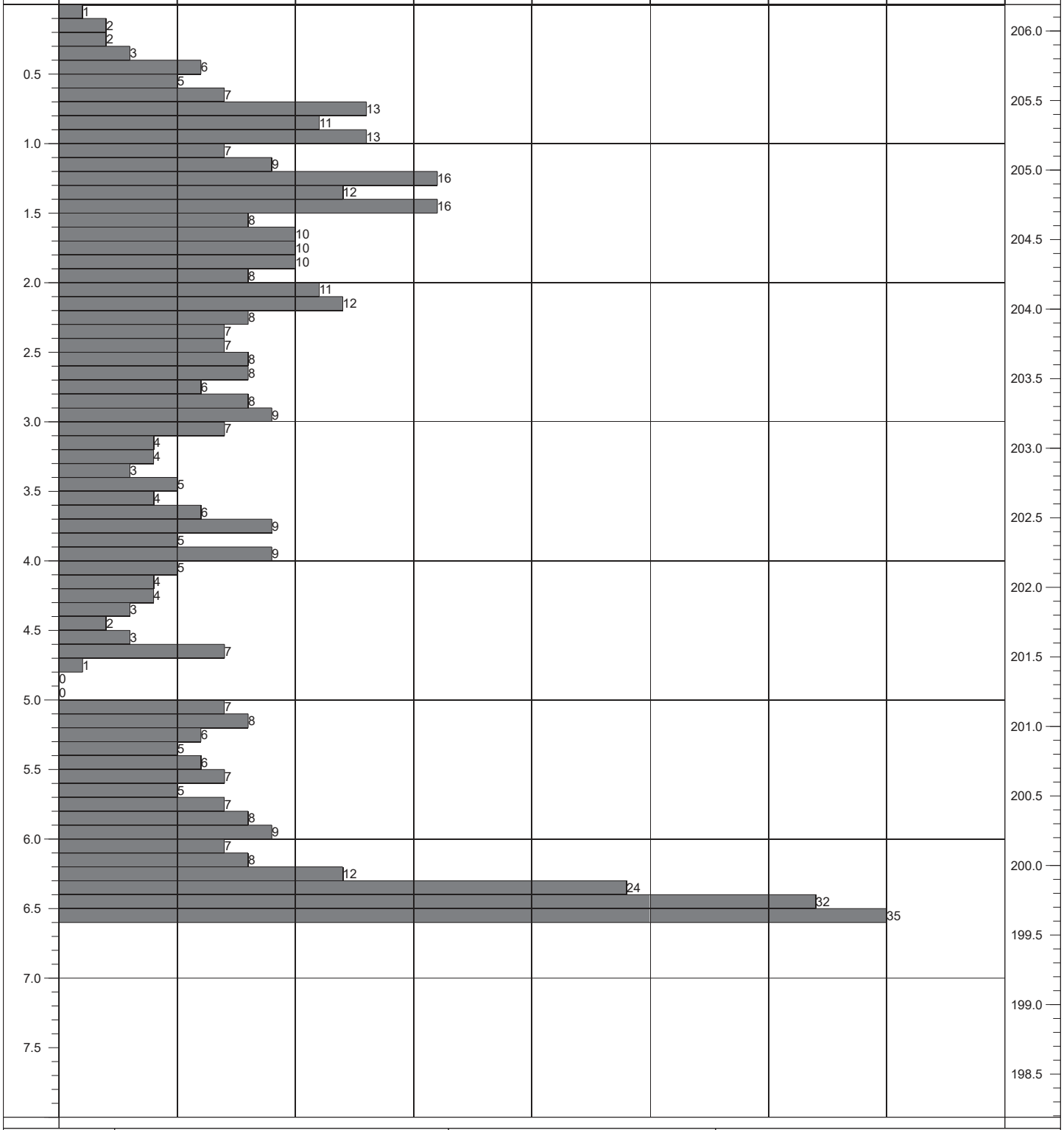
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP096
Contract:	Blessington - Phase 3	Easting:	697991.869	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715241.168	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.74	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



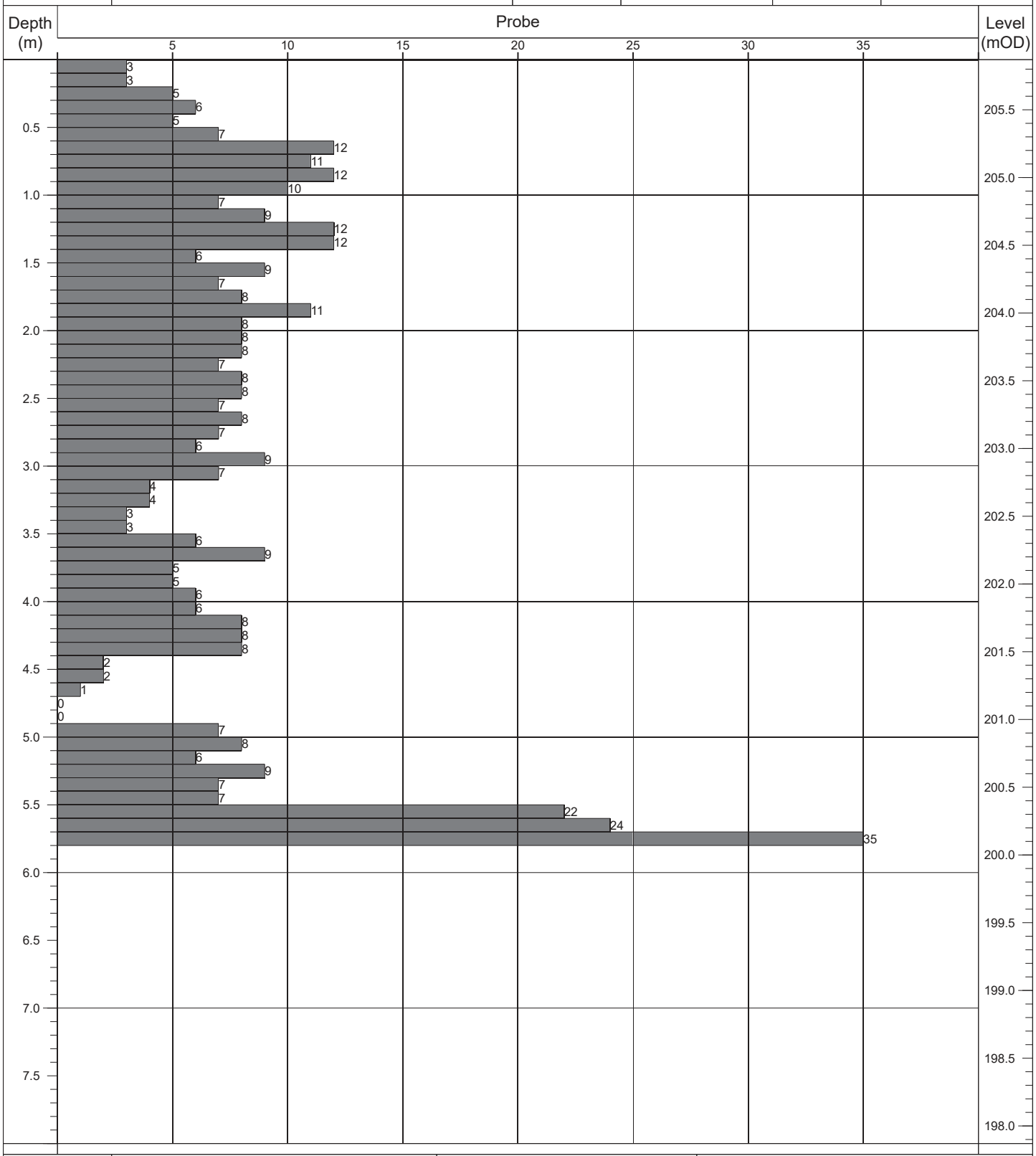
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP097
Contract:	Blessington - Phase 3	Easting:	697941.767	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715158.925	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	206.19	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



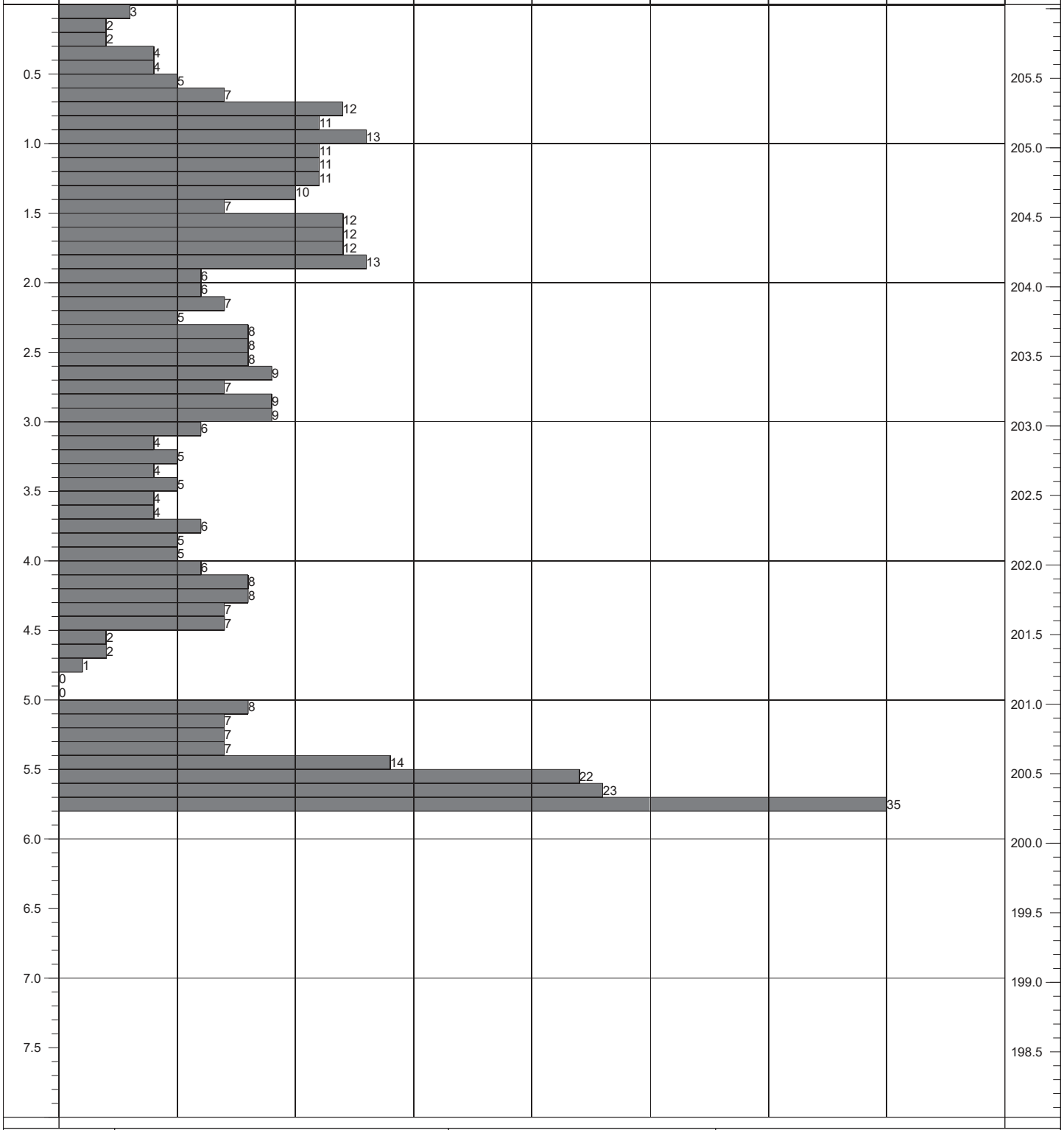
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP098
Contract:	Blessington - Phase 3	Easting:	697894.008	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715146.493	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	205.87	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



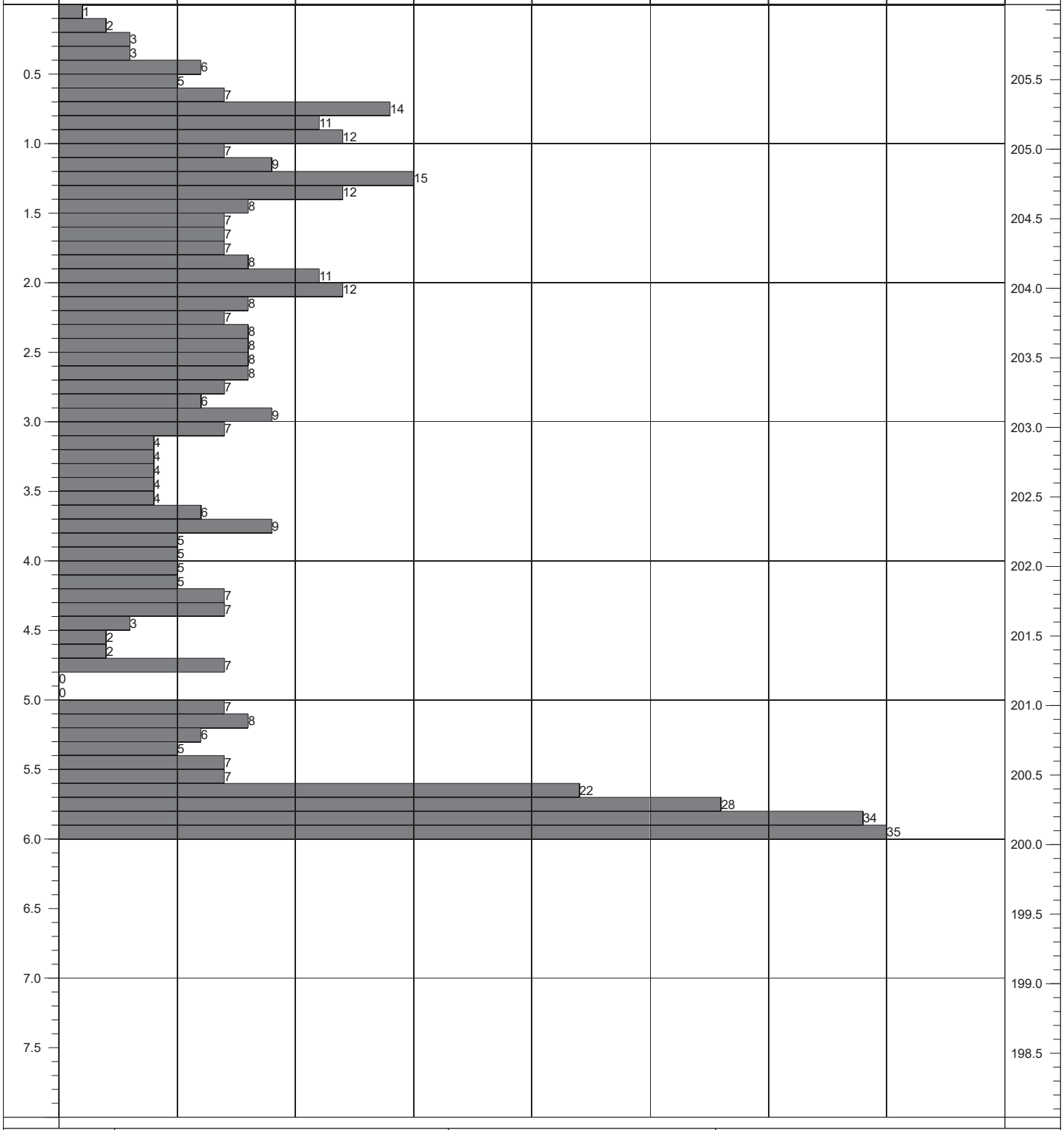
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP099**
Contract:	Blessington - Phase 3	Easting:	697912.236	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715150.131	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	206.03	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



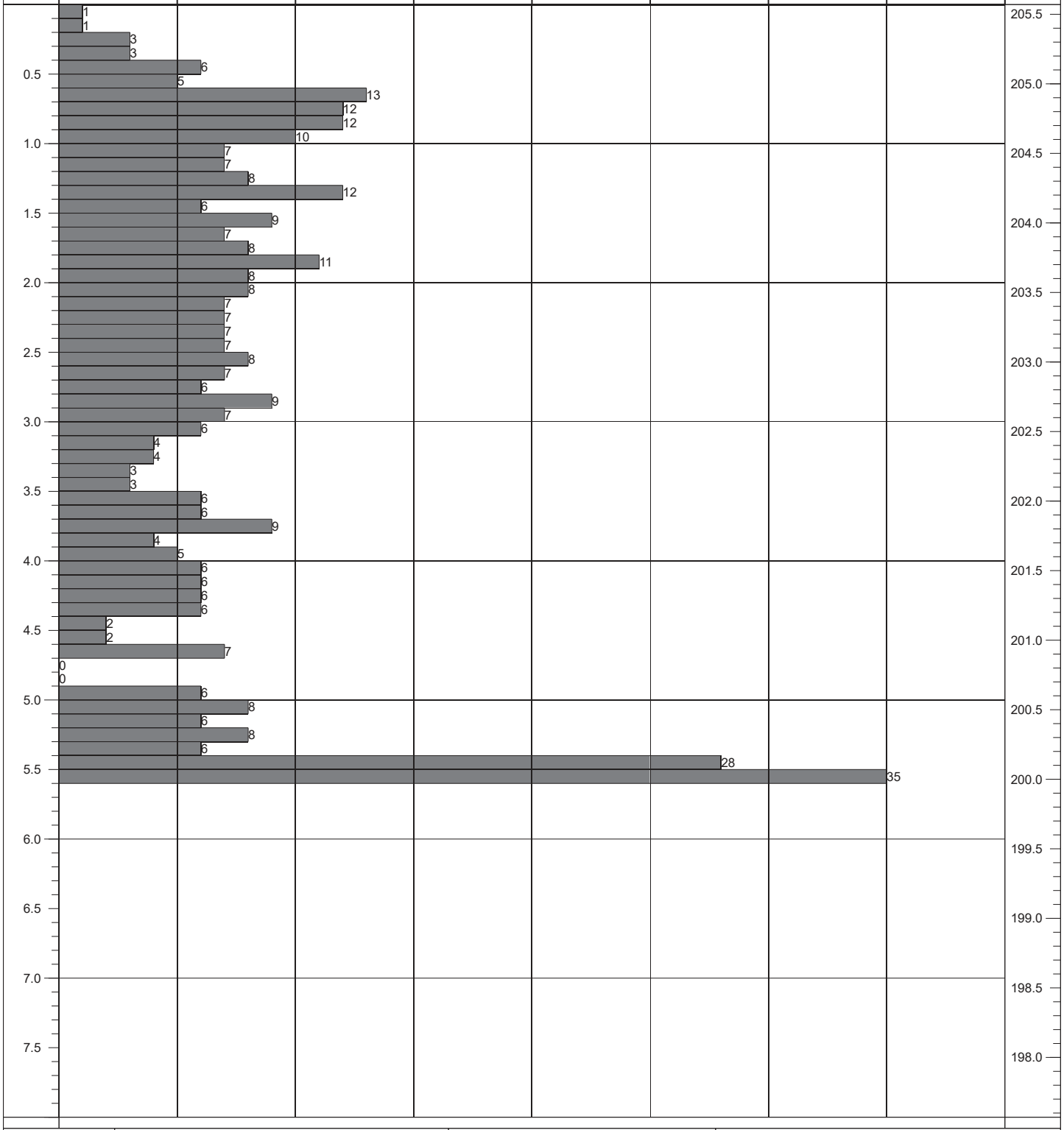
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP100
Contract:	Blessington - Phase 3	Easting:	697881.561	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715148.207	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	206.04	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



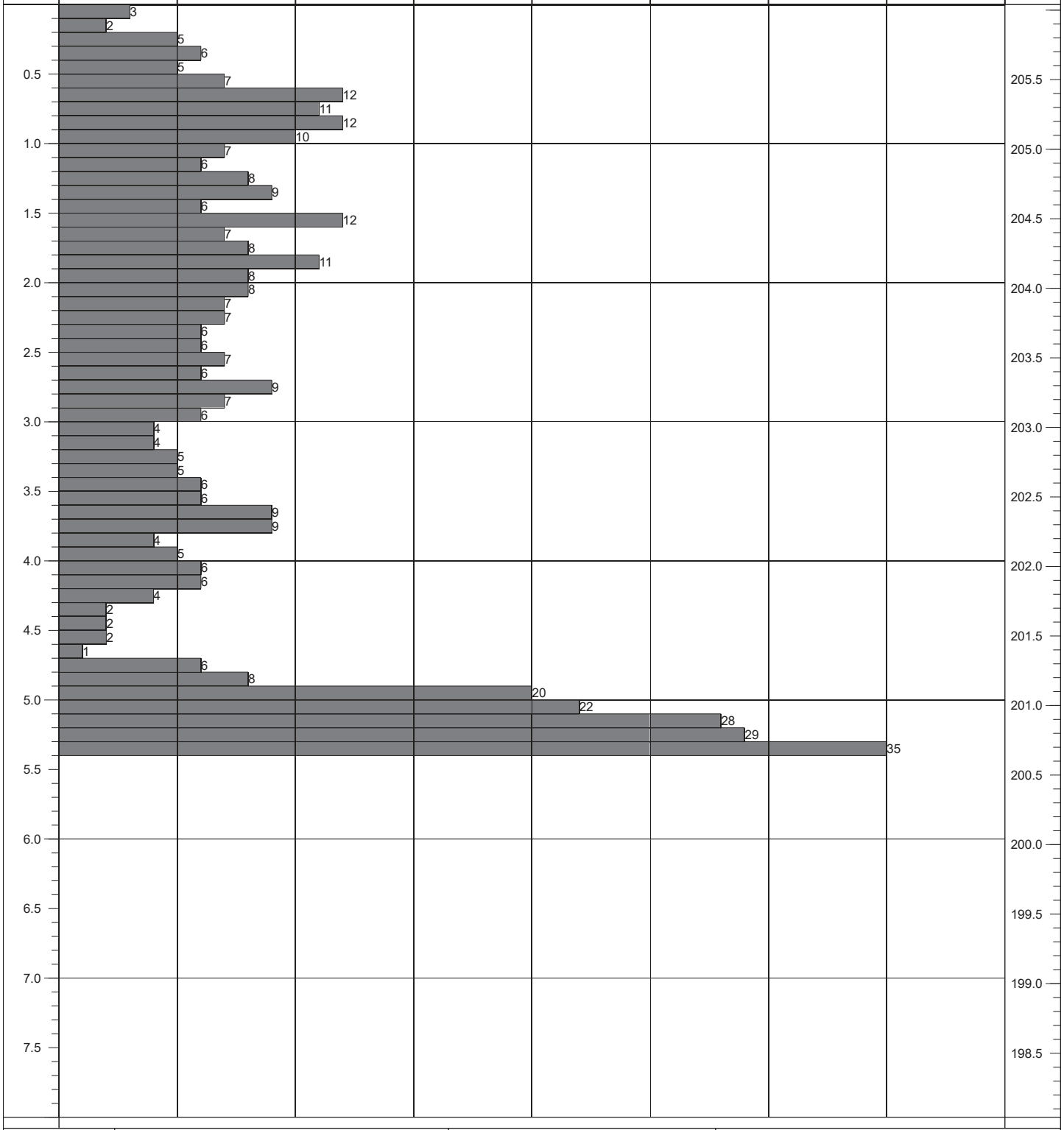
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP101
Contract:	Blessington - Phase 3	Easting:	697887.588	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715147.583	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	205.57	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



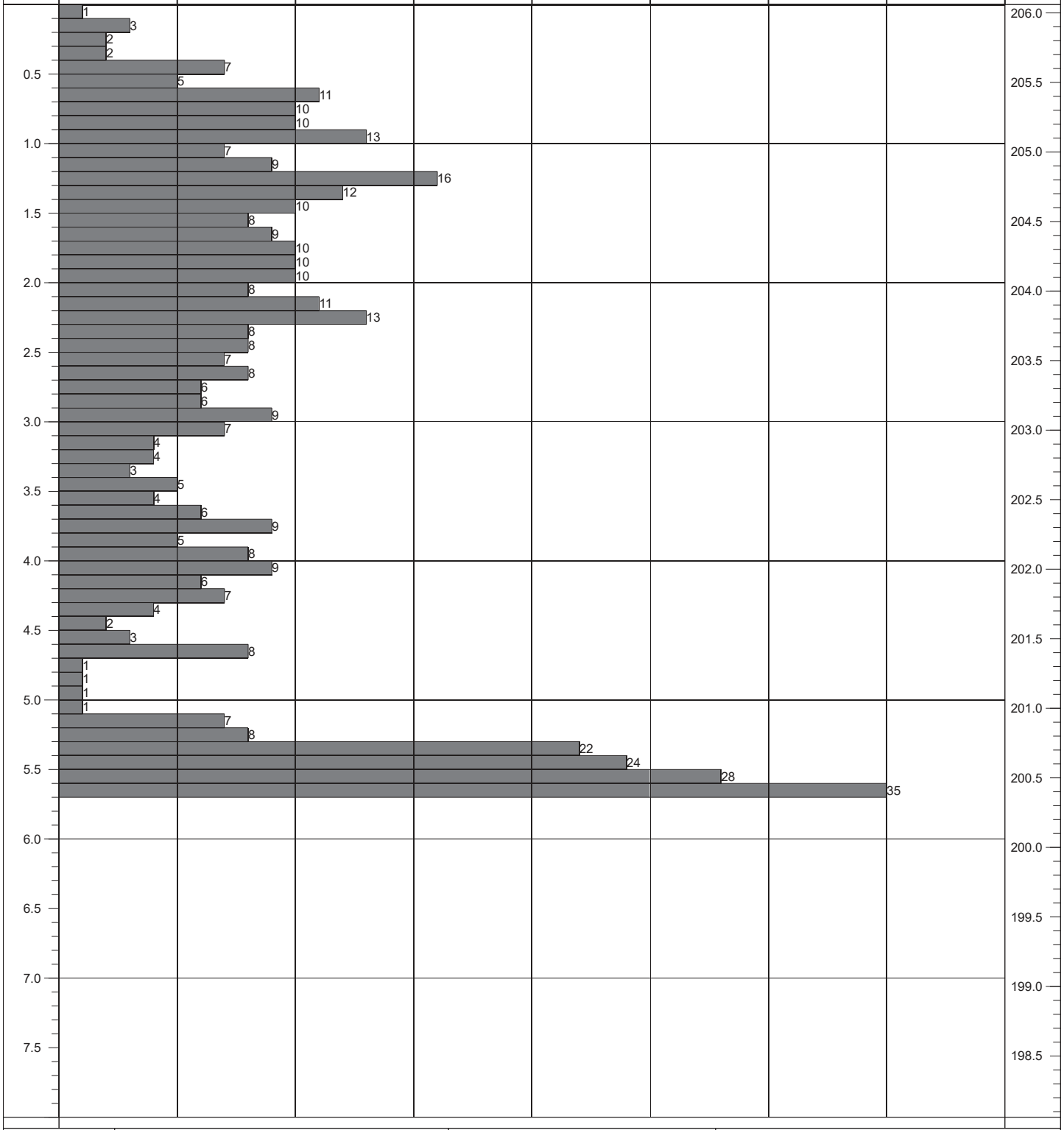
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP102
Contract:	Blessington - Phase 3	Easting:	697930.116	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715155.045	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	206.04	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



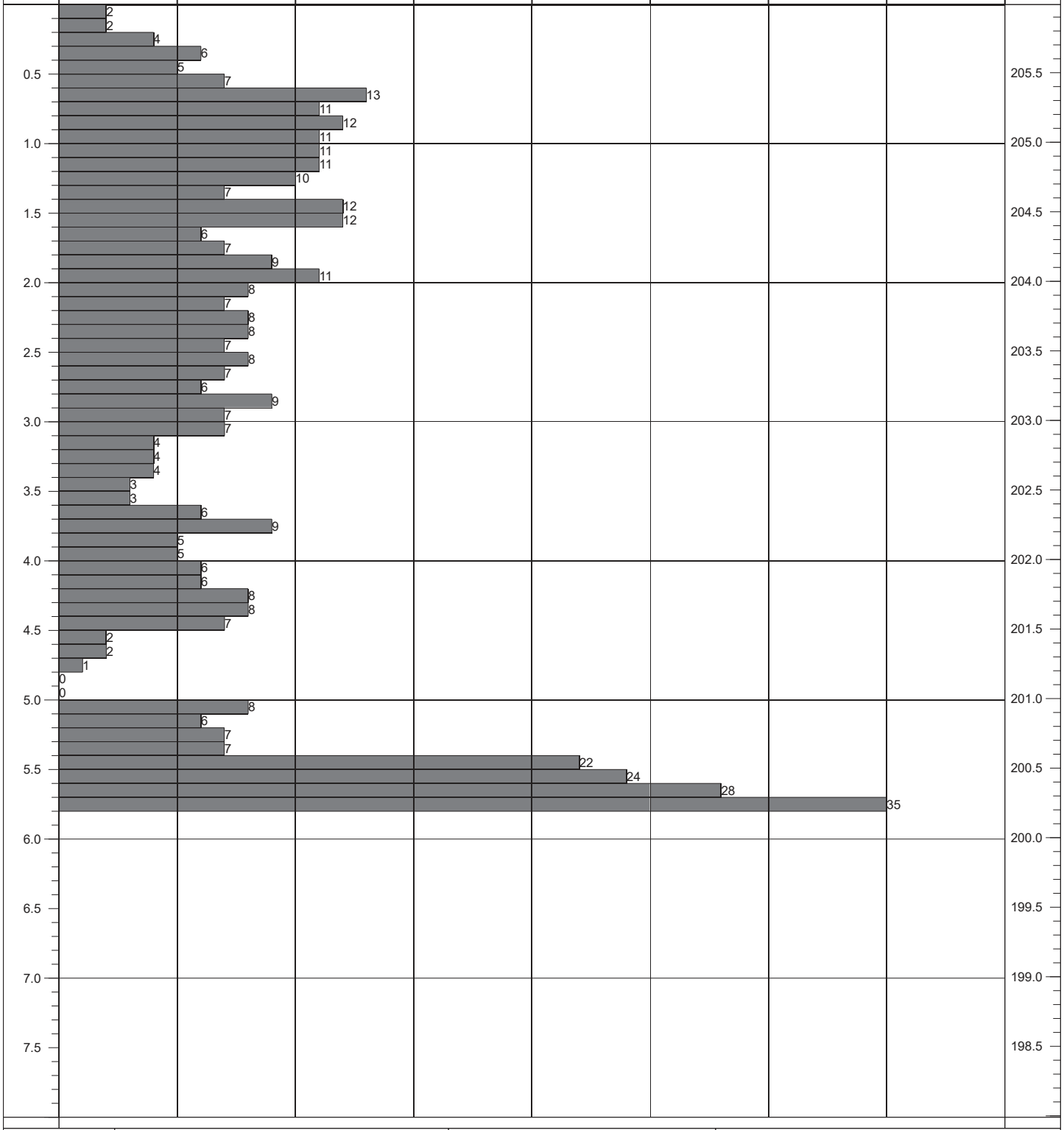
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP103
Contract:	Blessington - Phase 3	Easting:	697936.104	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715156.958	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	206.06	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



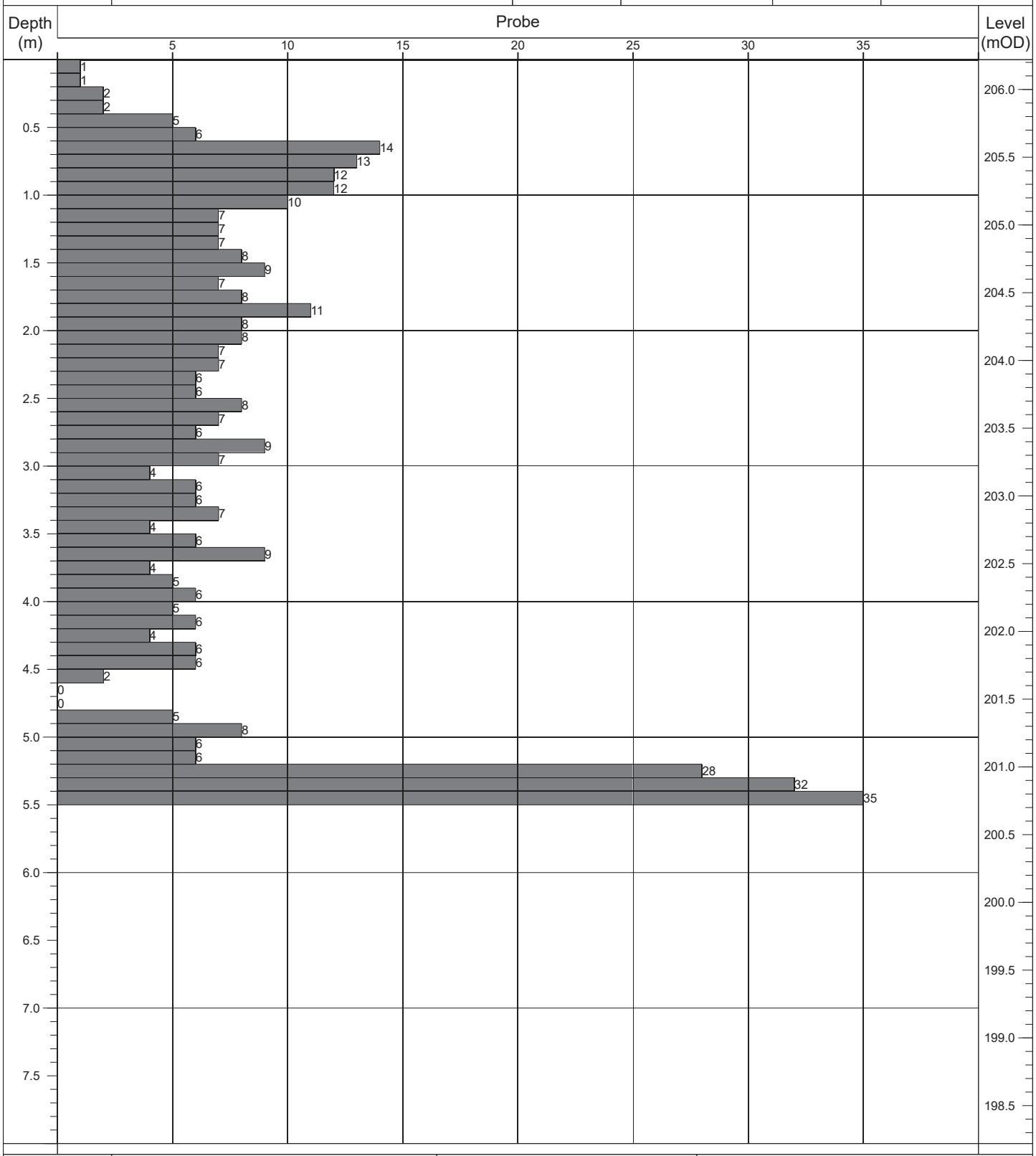
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP104
Contract:	Blessington - Phase 3	Easting:	697918.699	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715151.130	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	205.99	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



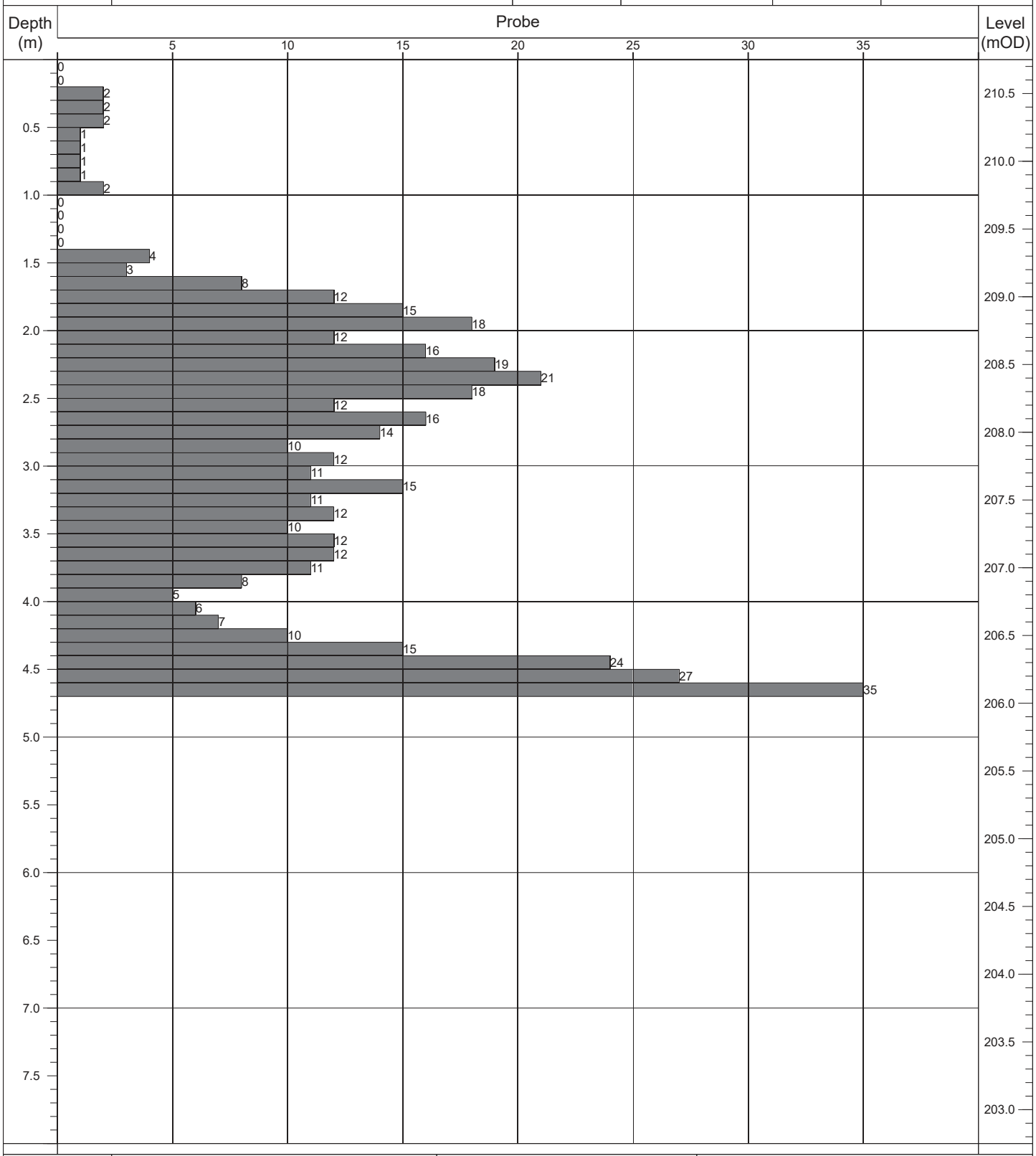
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP105**
Contract:	Blessington - Phase 3	Easting:	697924.375	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715152.907	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	206.22	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



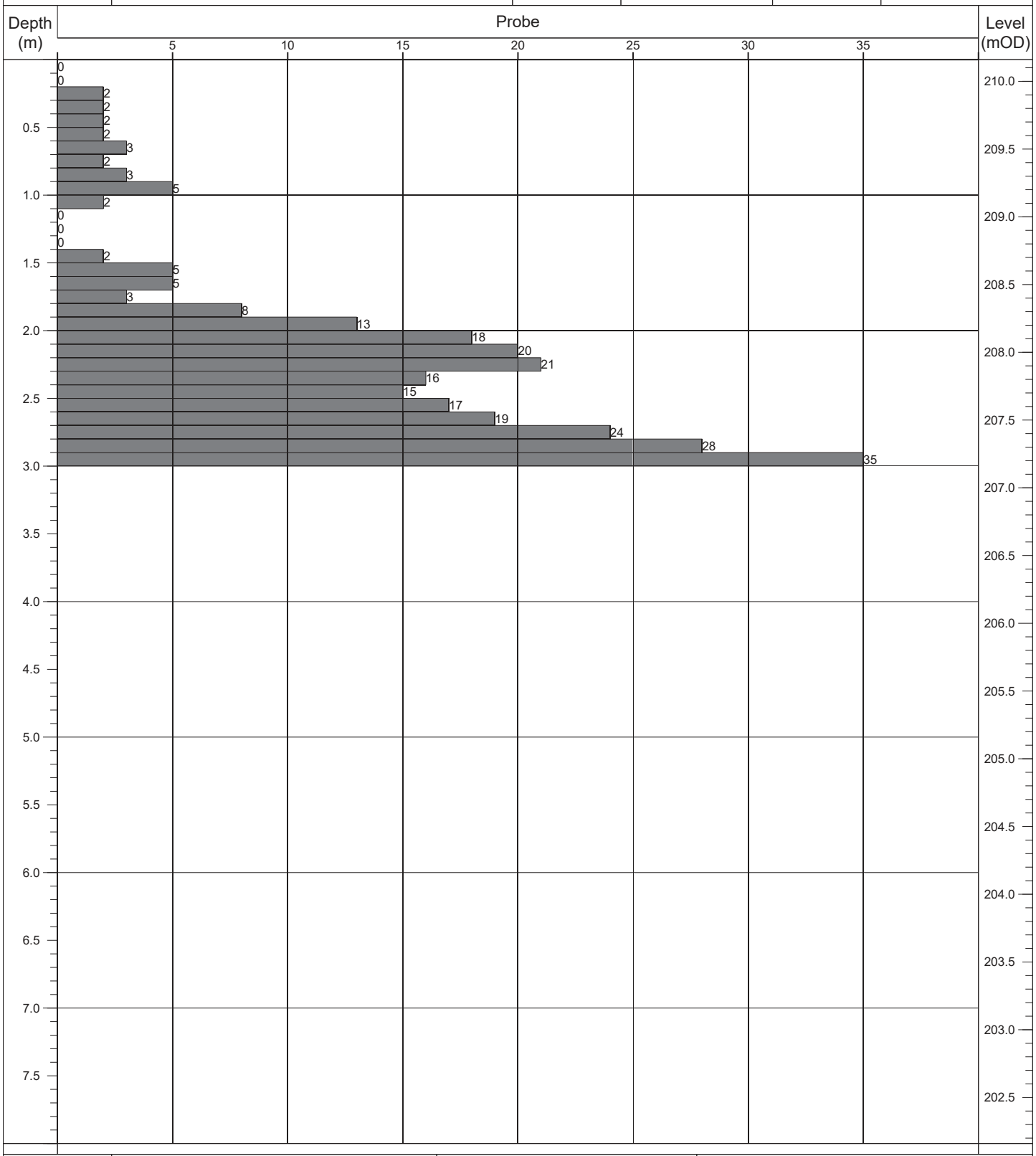
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP106**
Contract:	Blessington - Phase 3	Easting:	697857.342	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715289.887	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.75	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



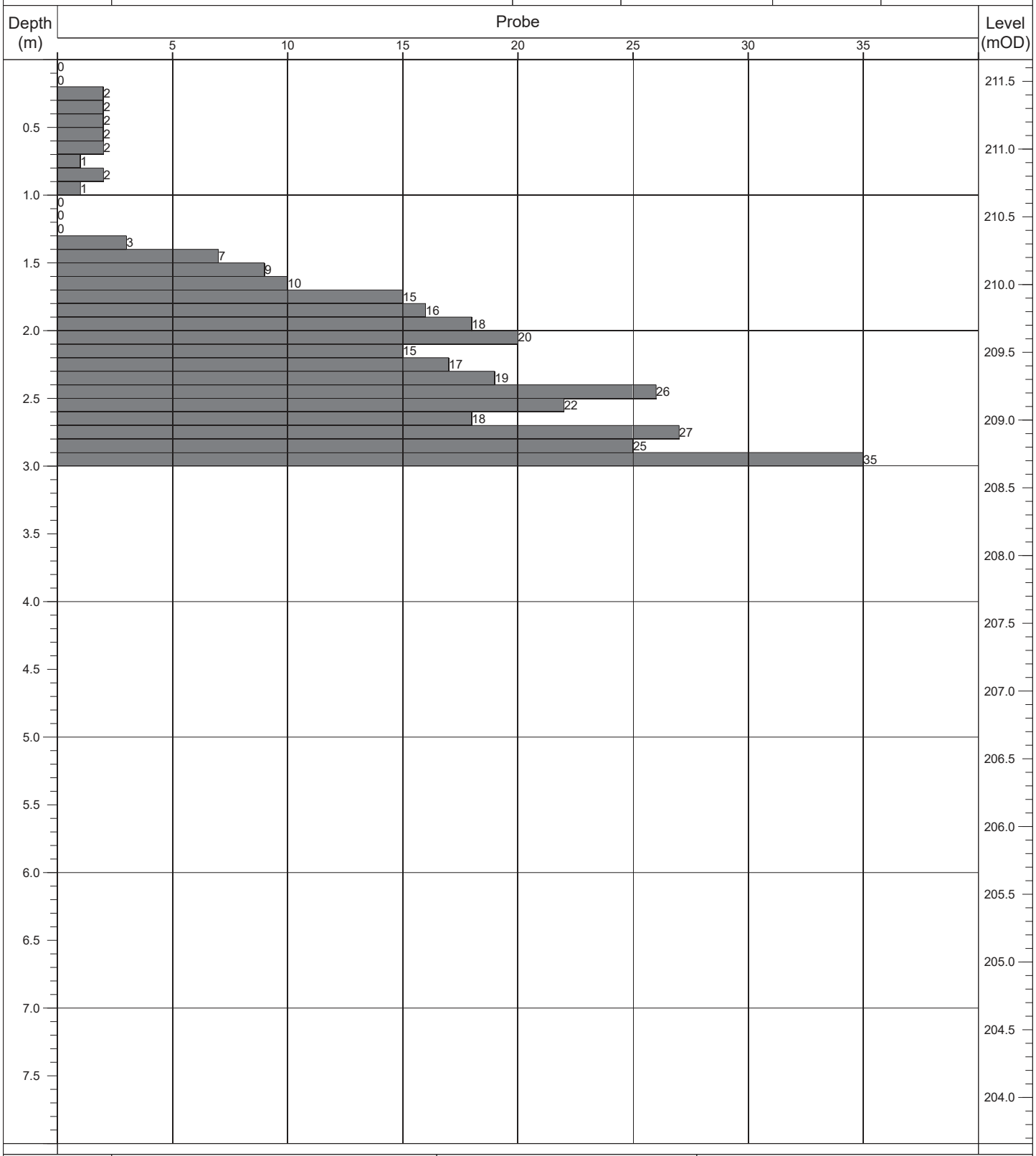
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP107
Contract:	Blessington - Phase 3	Easting:	697862.950	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715284.326	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.16	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



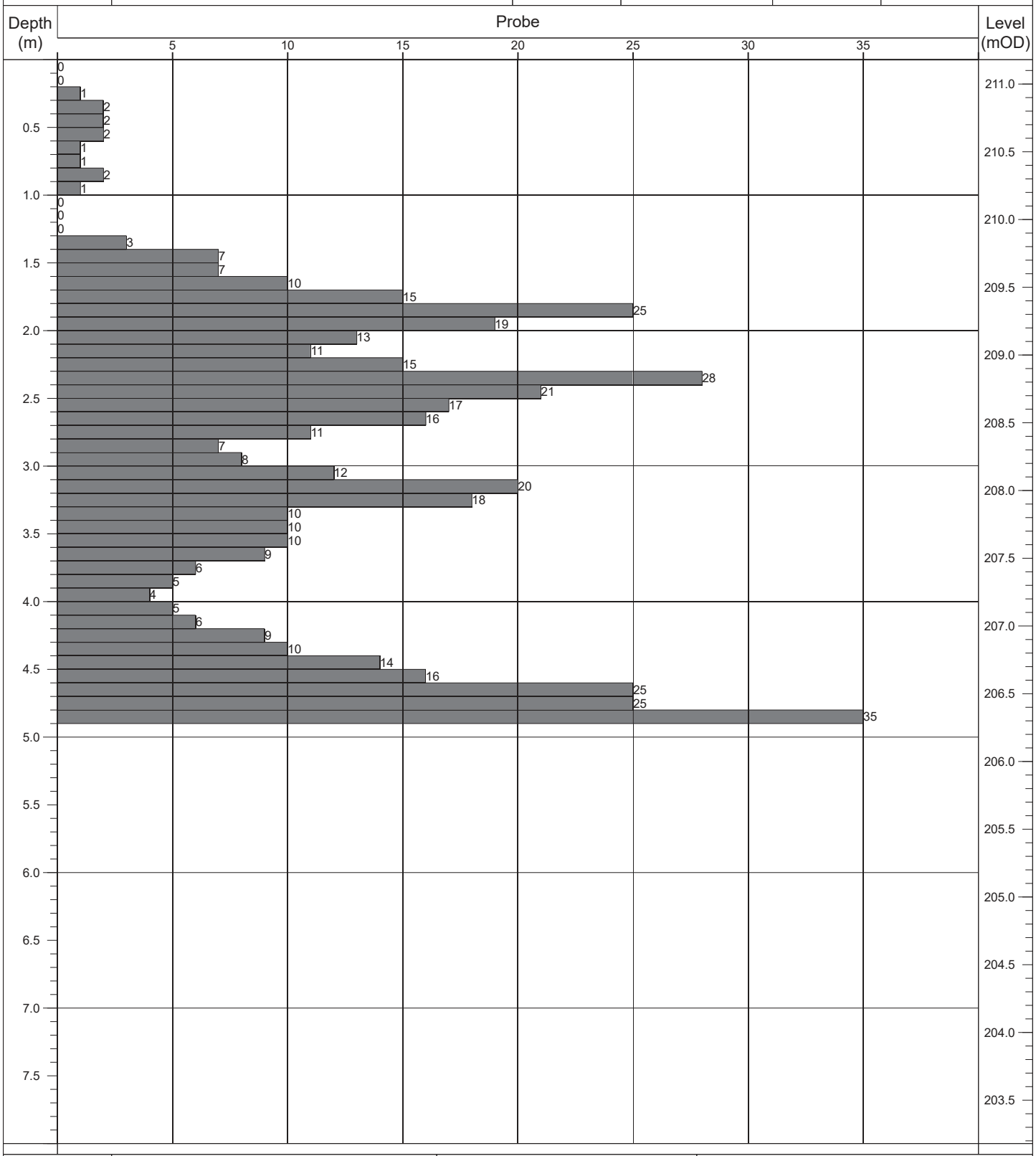
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP108
Contract:	Blessington - Phase 3	Easting:	697849.614	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715297.599	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.66	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



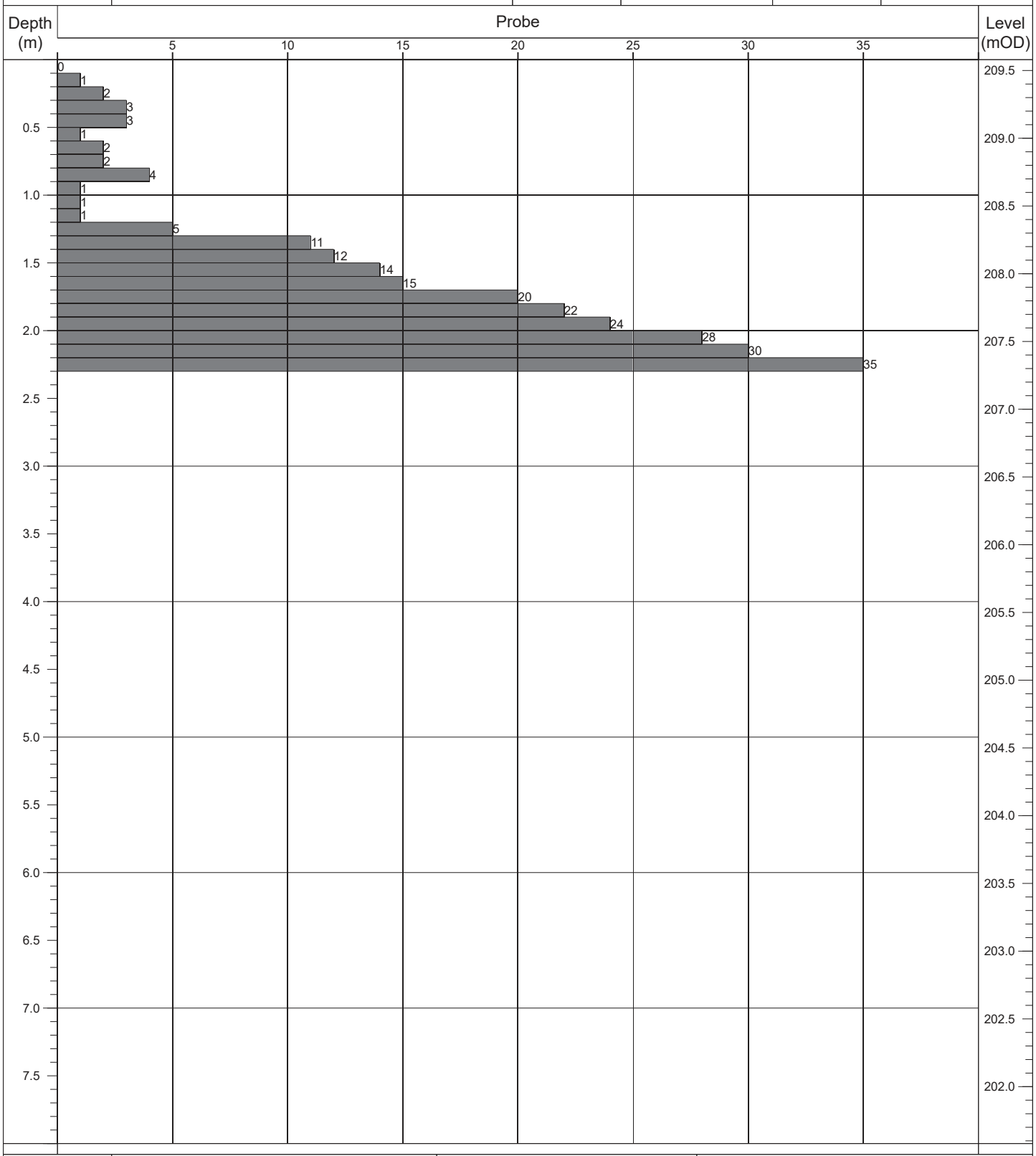
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP109
Contract:	Blessington - Phase 3	Easting:	697853.898	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715293.490	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.18	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



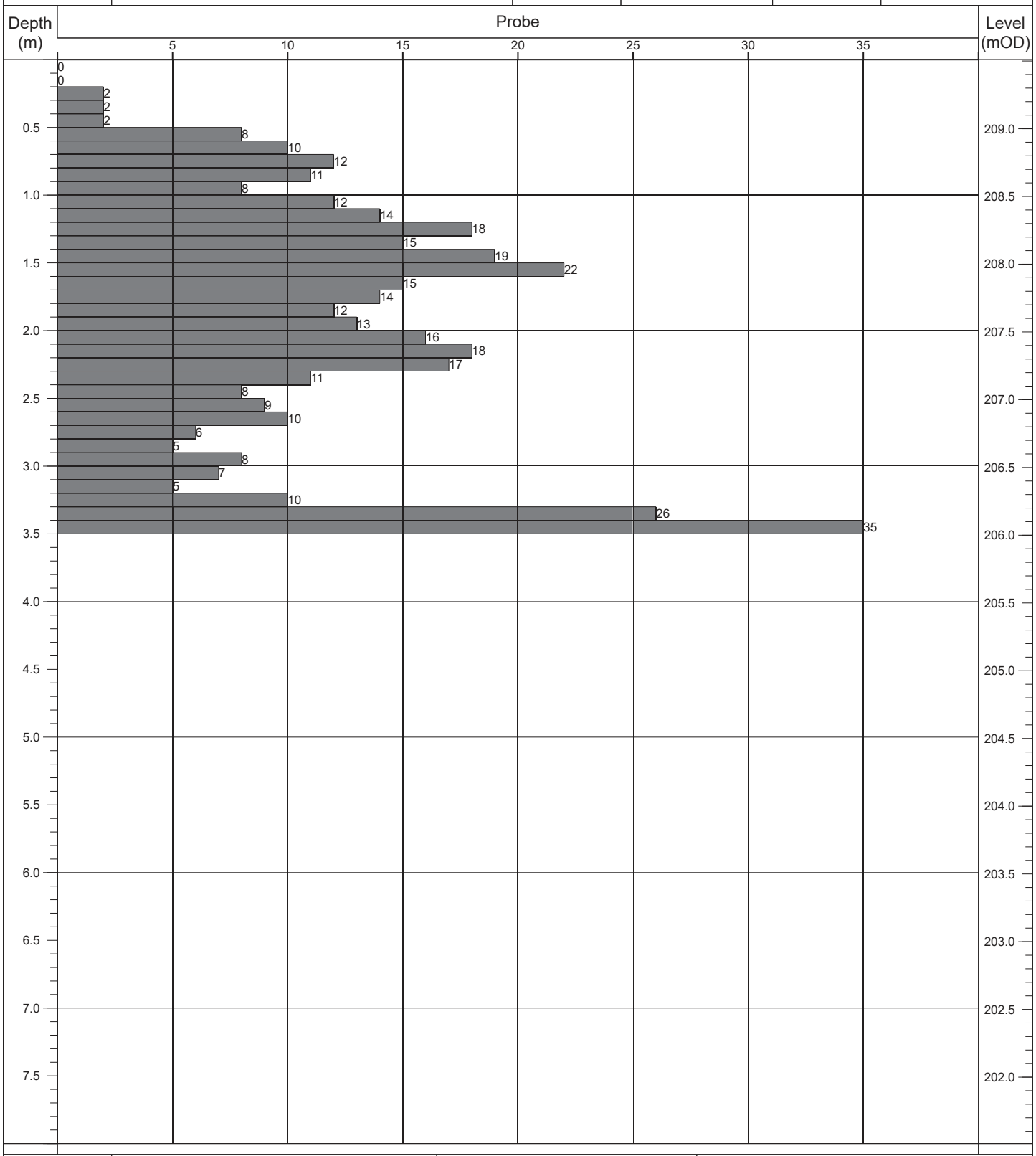
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP110**
Contract:	Blessington - Phase 3	Easting:	697877.080	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715270.615	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.58	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



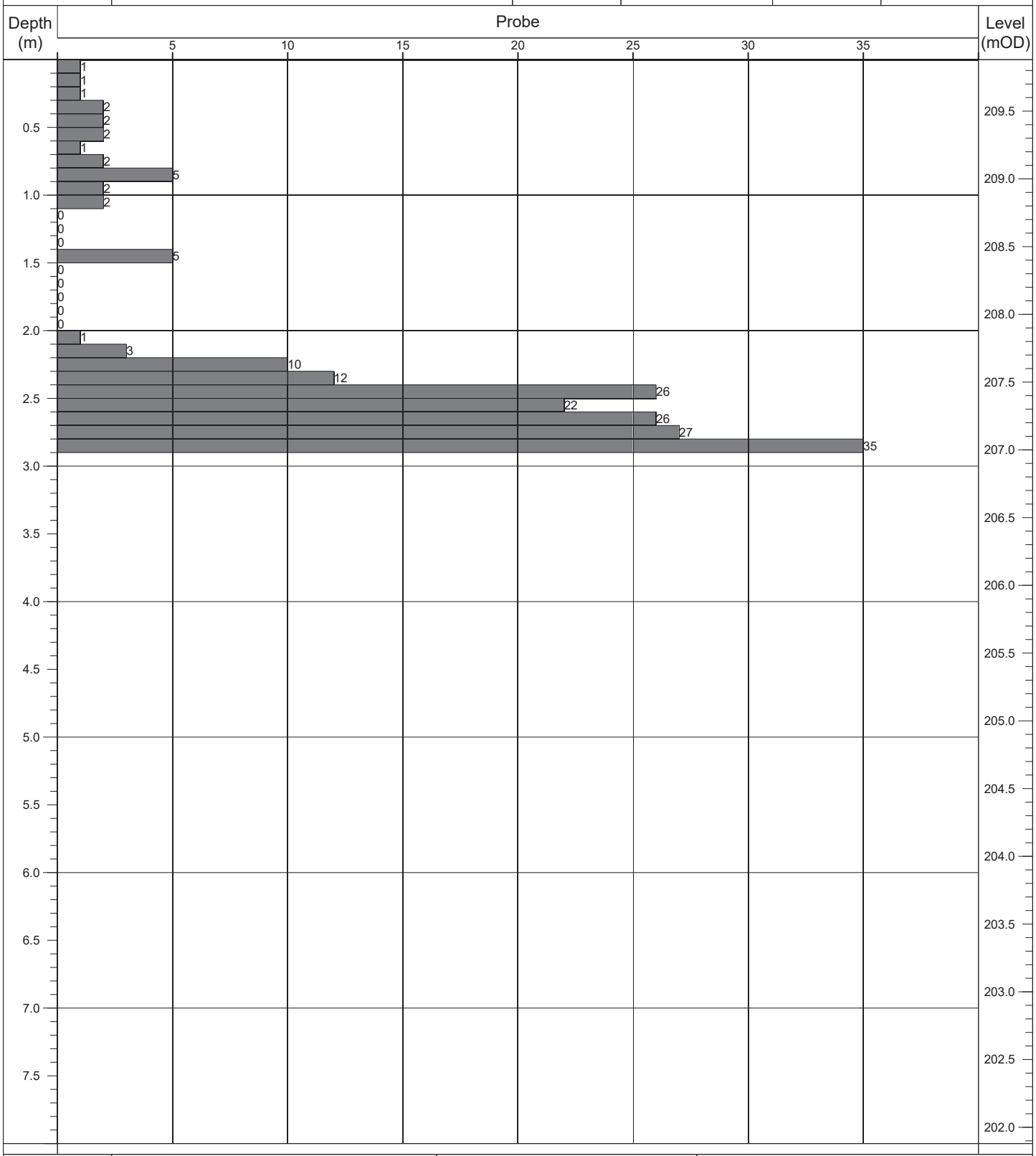
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP111
Contract:	Blessington - Phase 3	Easting:	697881.148	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715266.462	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	209.51	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.50m	Obstruction - boulders.	DPH	50kg	500mm	

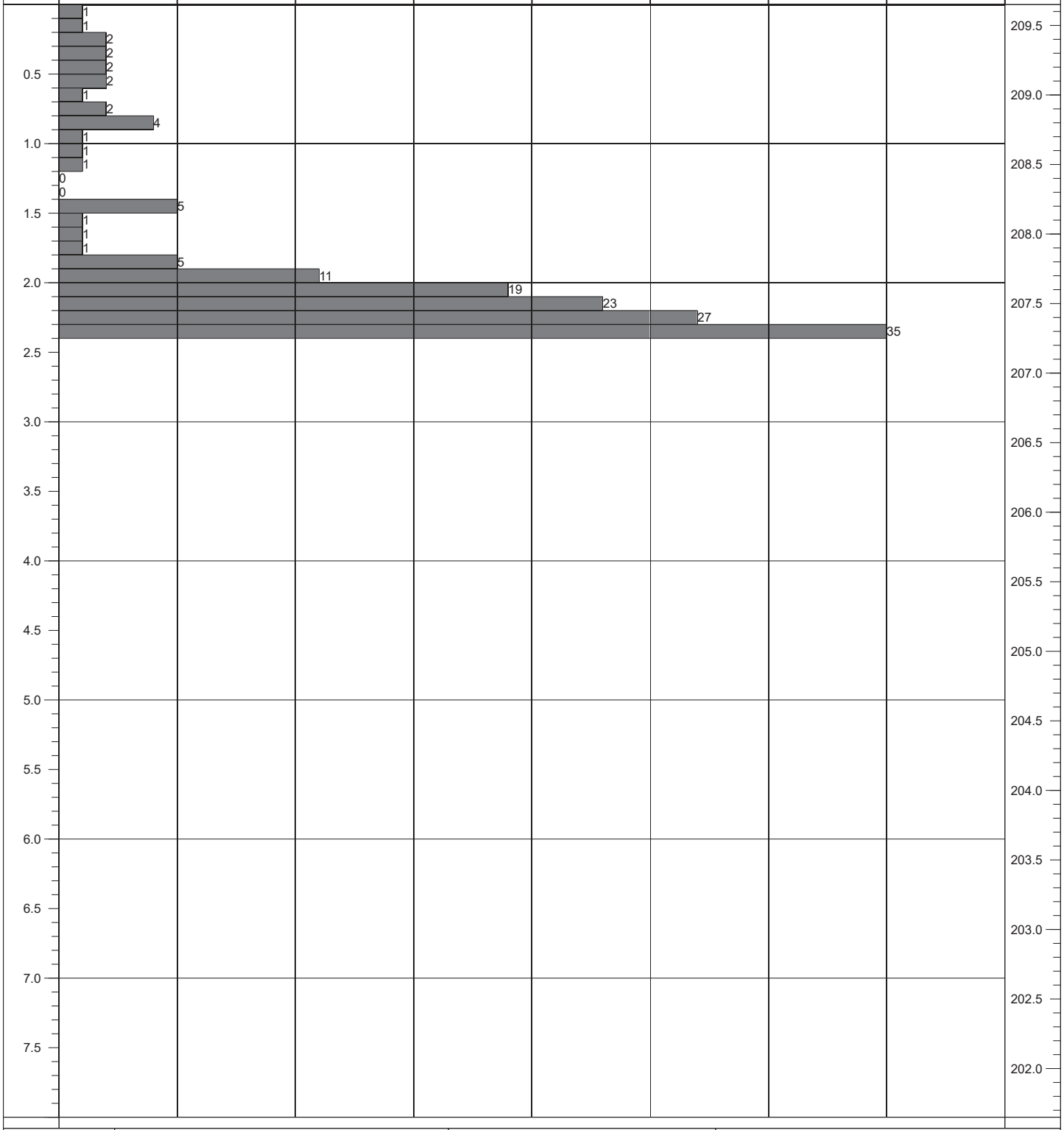
Contract No:	Dynamic Probe Log				Probe No:
6100					**DP112**
Contract:	Blessington - Phase 3	Easting:	697867.333	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715280.404	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.88	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.90m	Obstruction - boulders.	DPH	50kg	500mm	

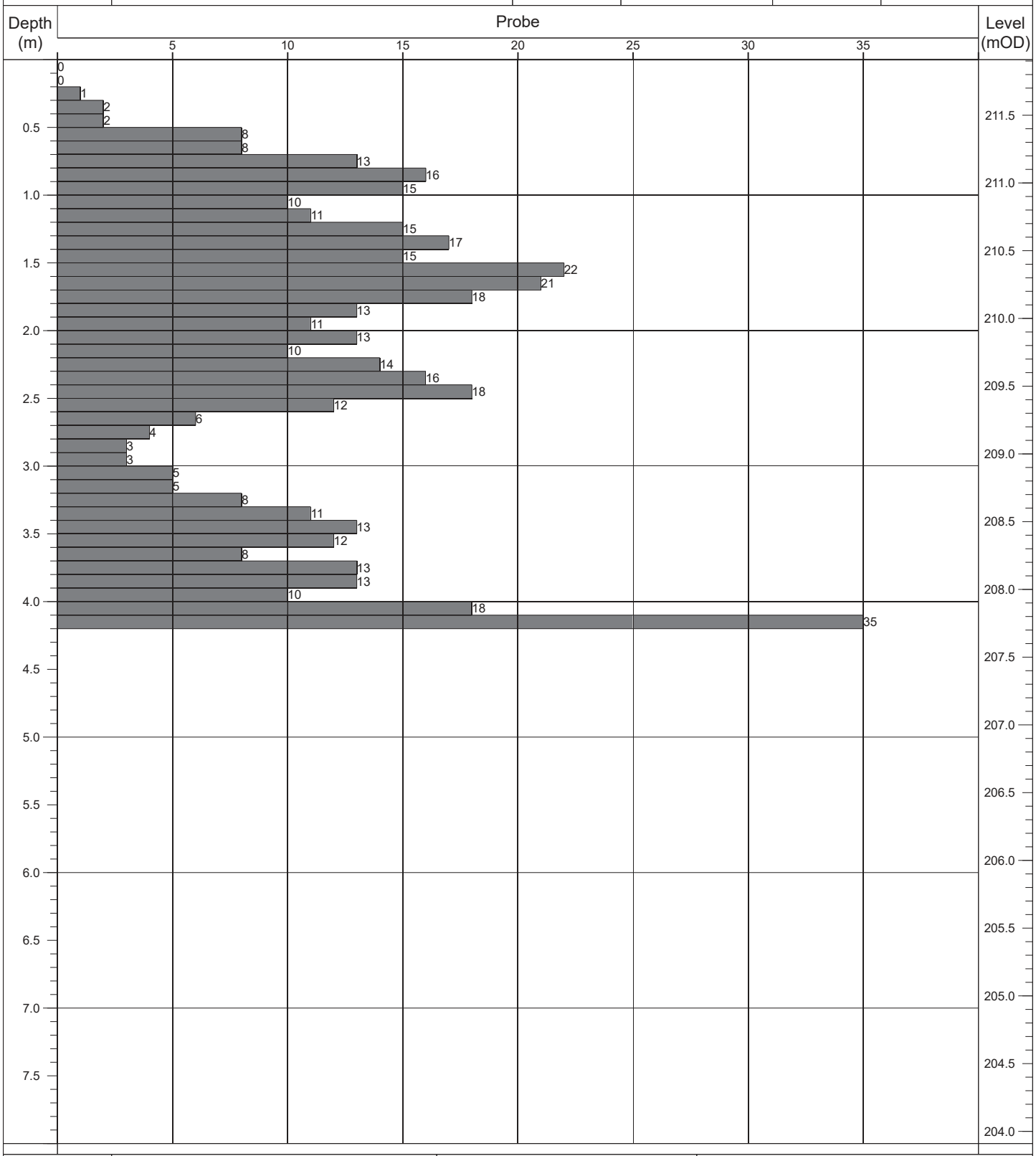
Contract No:	Dynamic Probe Log	Probe No:
6100		DP113

Contract:	Blessington - Phase 3	Easting:	697872.837	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715274.680	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	209.65	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



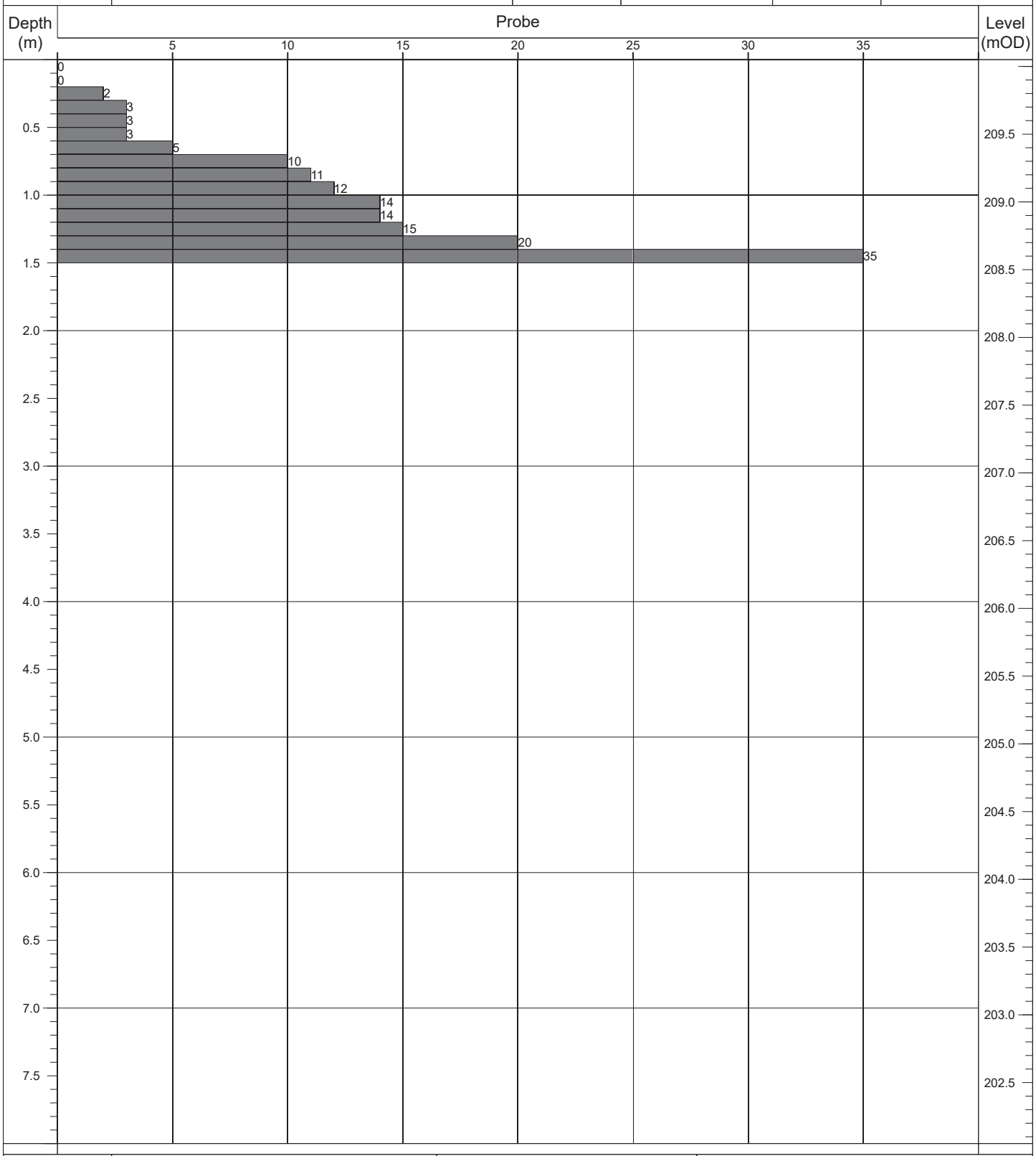
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP114**
Contract:	Blessington - Phase 3	Easting:	697846.231	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715301.151	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.91	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



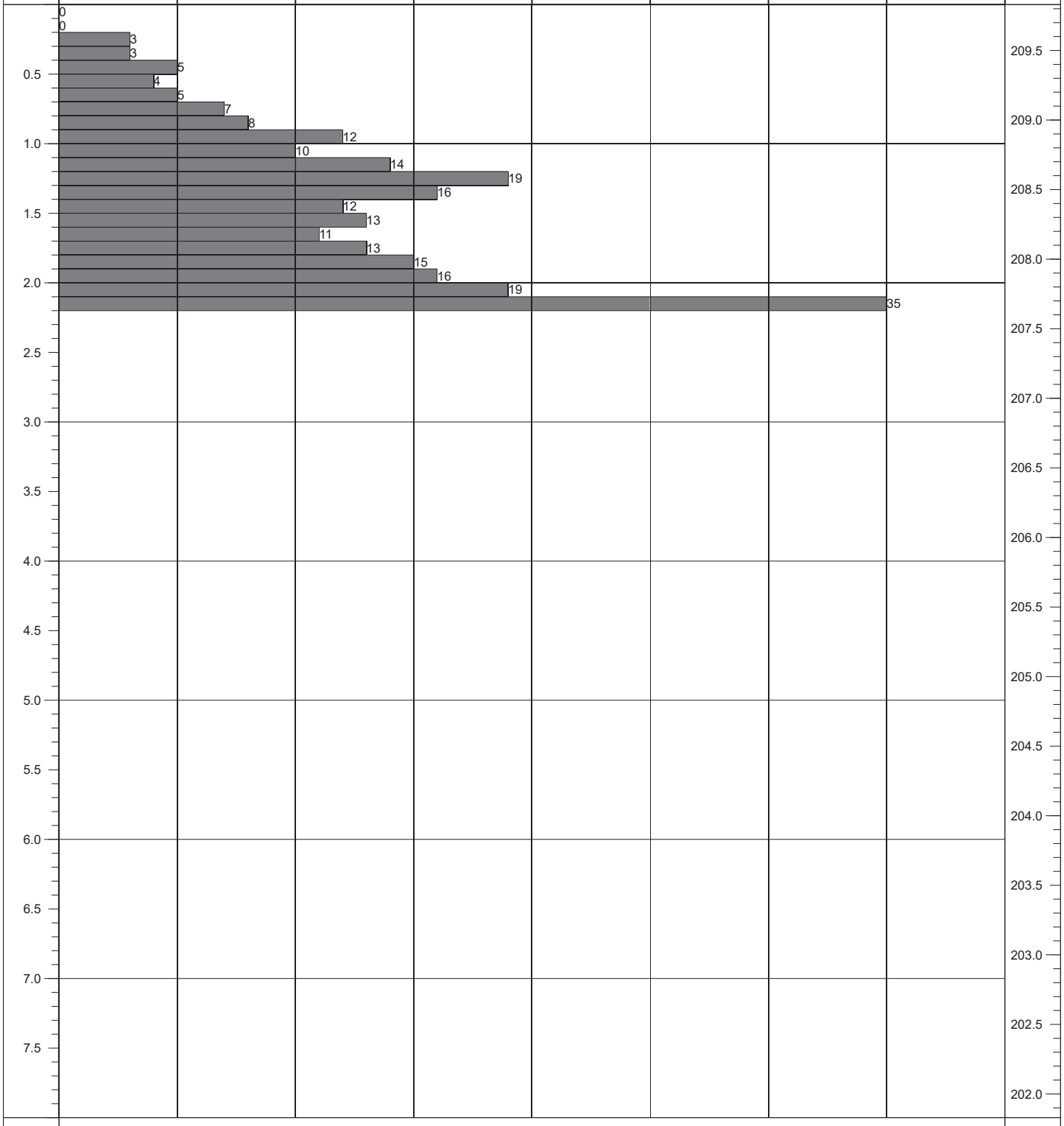
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP115
Contract:	Blessington - Phase 3	Easting:	697837.302	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715257.922	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.05	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.50m	Obstruction - boulders.	DPH	50kg	500mm	

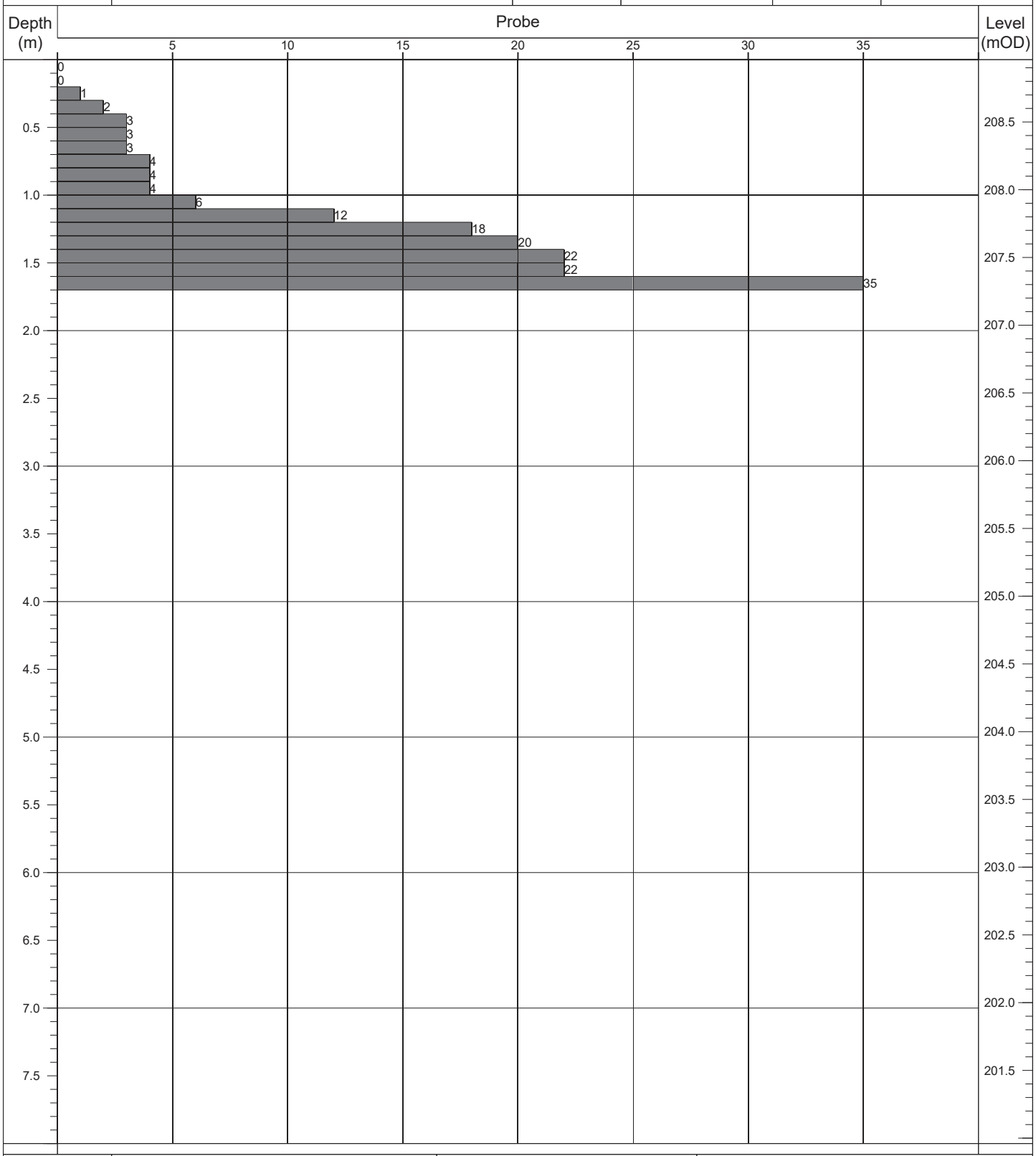
Contract No: 6100	Dynamic Probe Log				Probe No: DP116
Contract:	Blessington - Phase 3	Easting:	697841.329	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715254.062	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.83	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

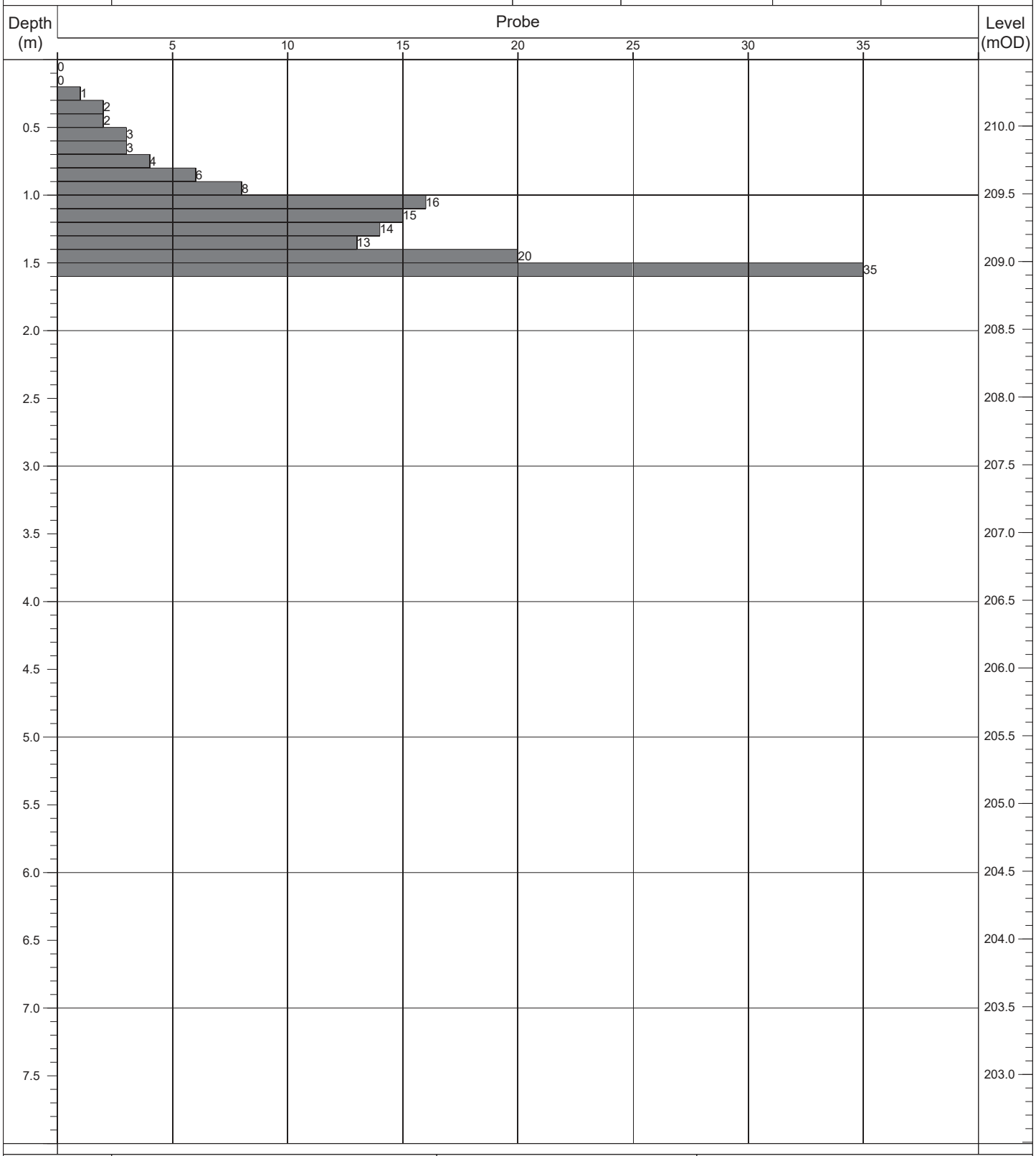
Contract No:	Dynamic Probe Log	Probe No:
6100		DP135

Contract:	Blessington - Phase 3	Easting:	697870.074	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715227.115	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	208.96	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



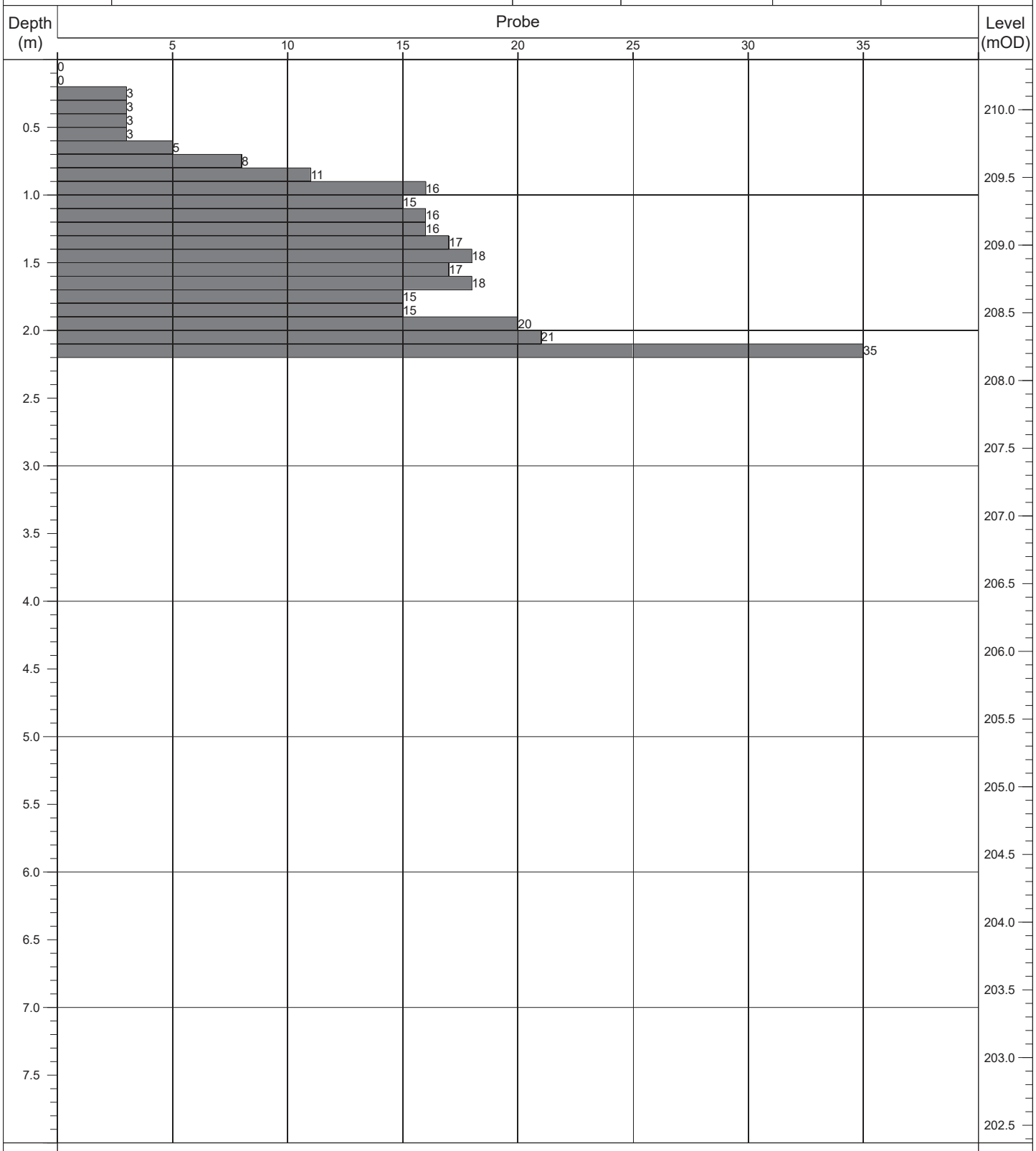
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP117**
Contract:	Blessington - Phase 3	Easting:	697827.624	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715267.455	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.49	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



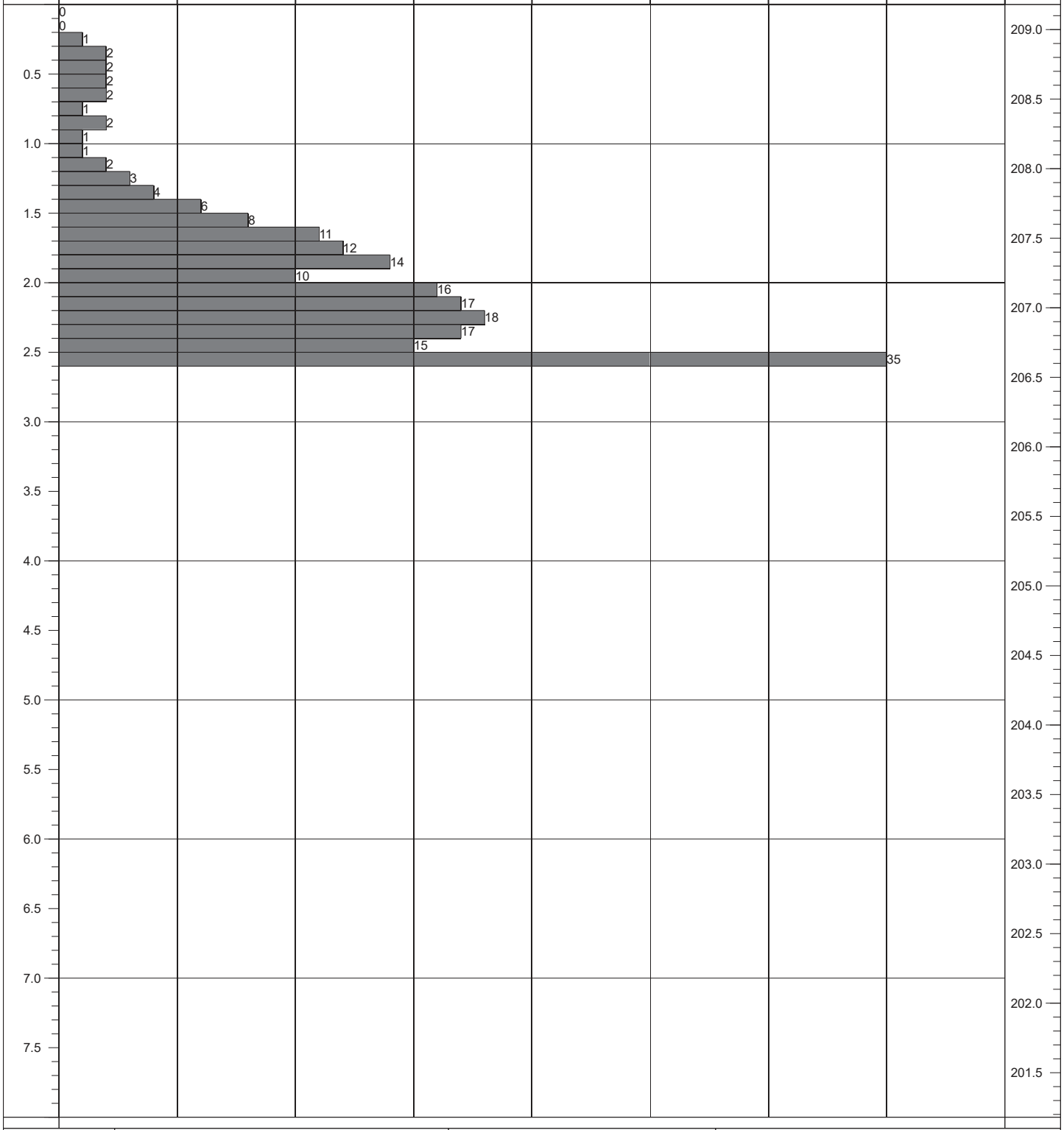
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP118
Contract:	Blessington - Phase 3	Easting:	697831.466	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715263.974	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.37	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



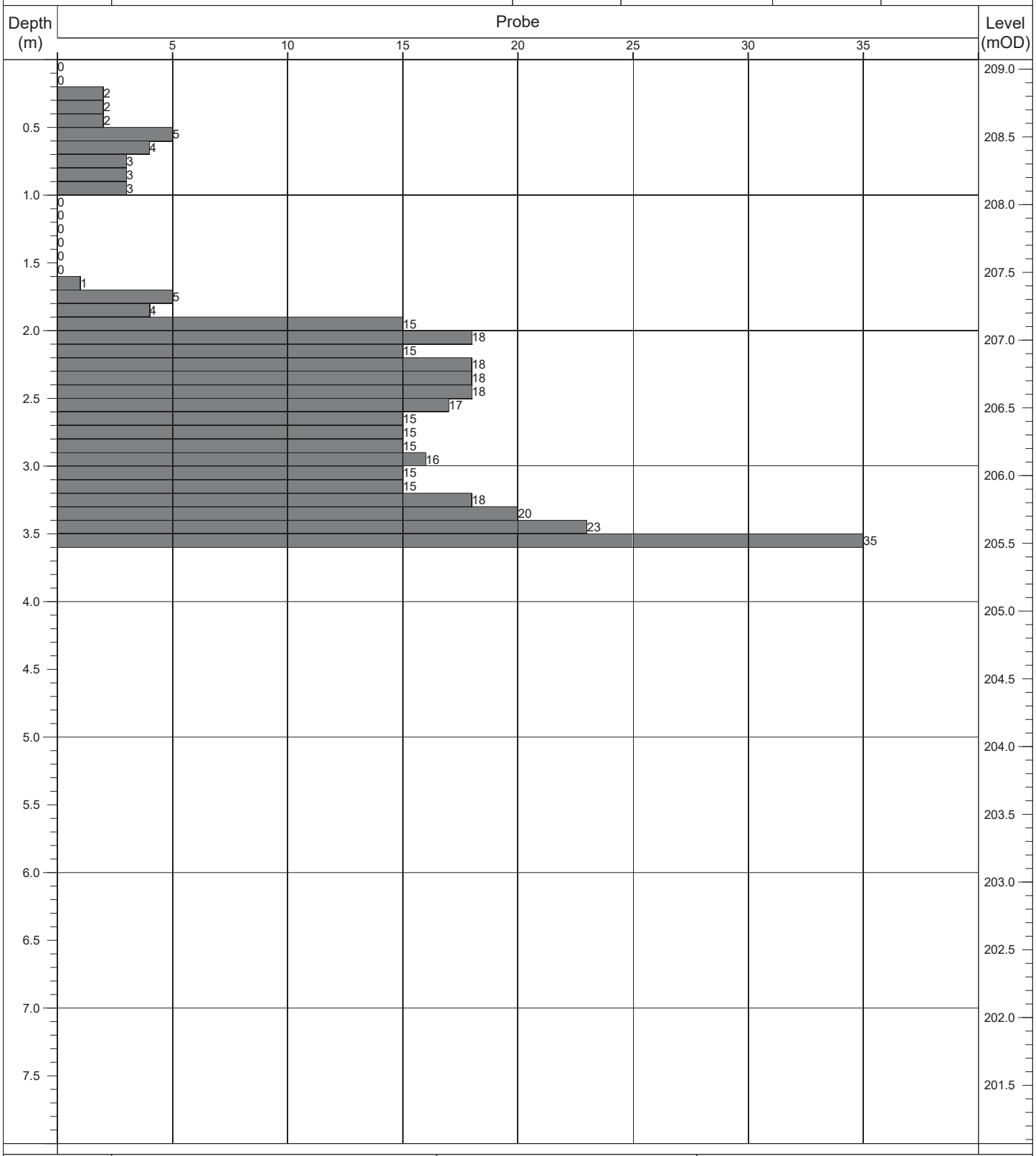
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP119**
Contract:	Blessington - Phase 3	Easting:	697855.119	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715240.545	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.18	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



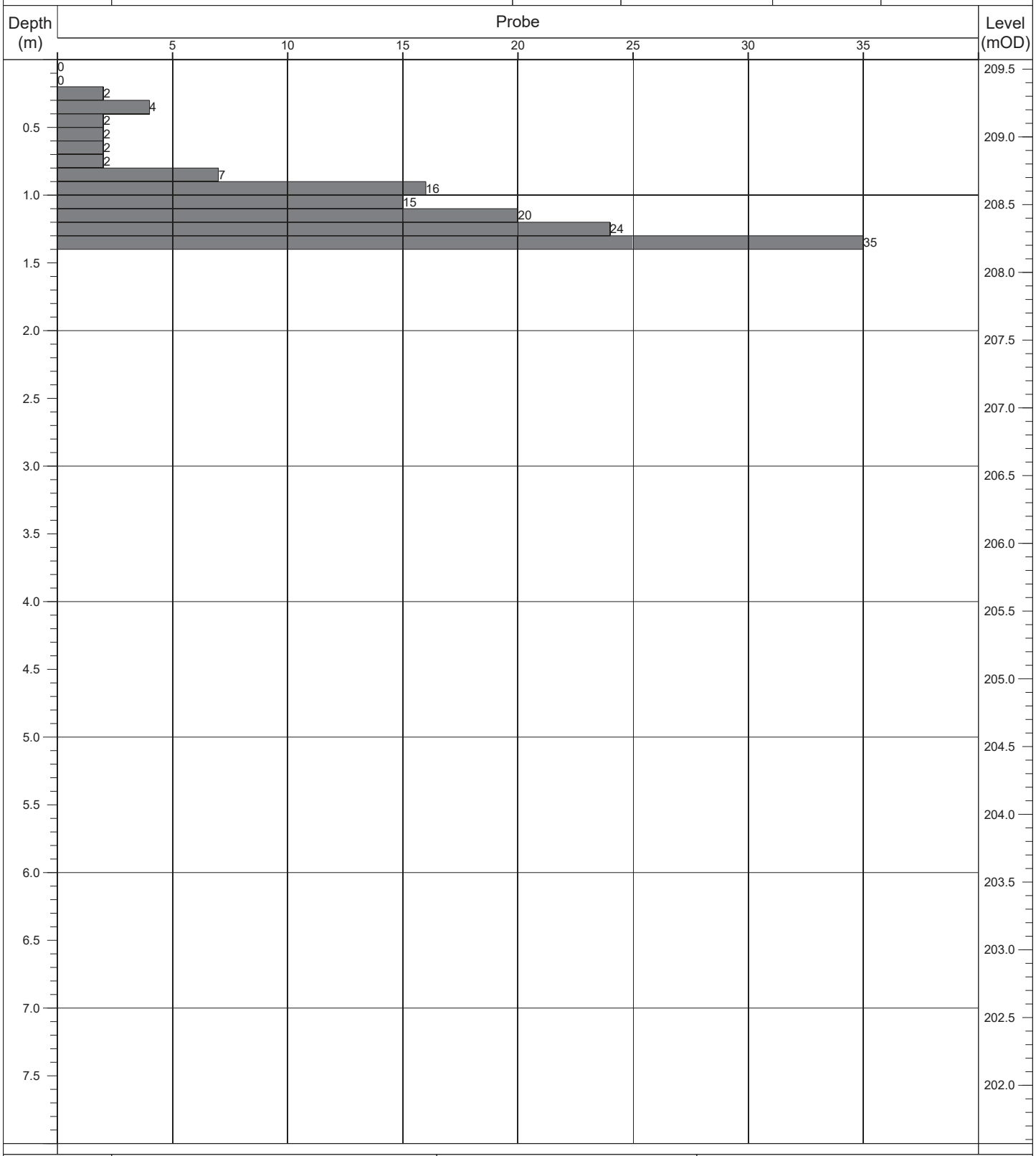
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP120
Contract:	Blessington - Phase 3	Easting:	697858.427	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715236.955	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.07	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



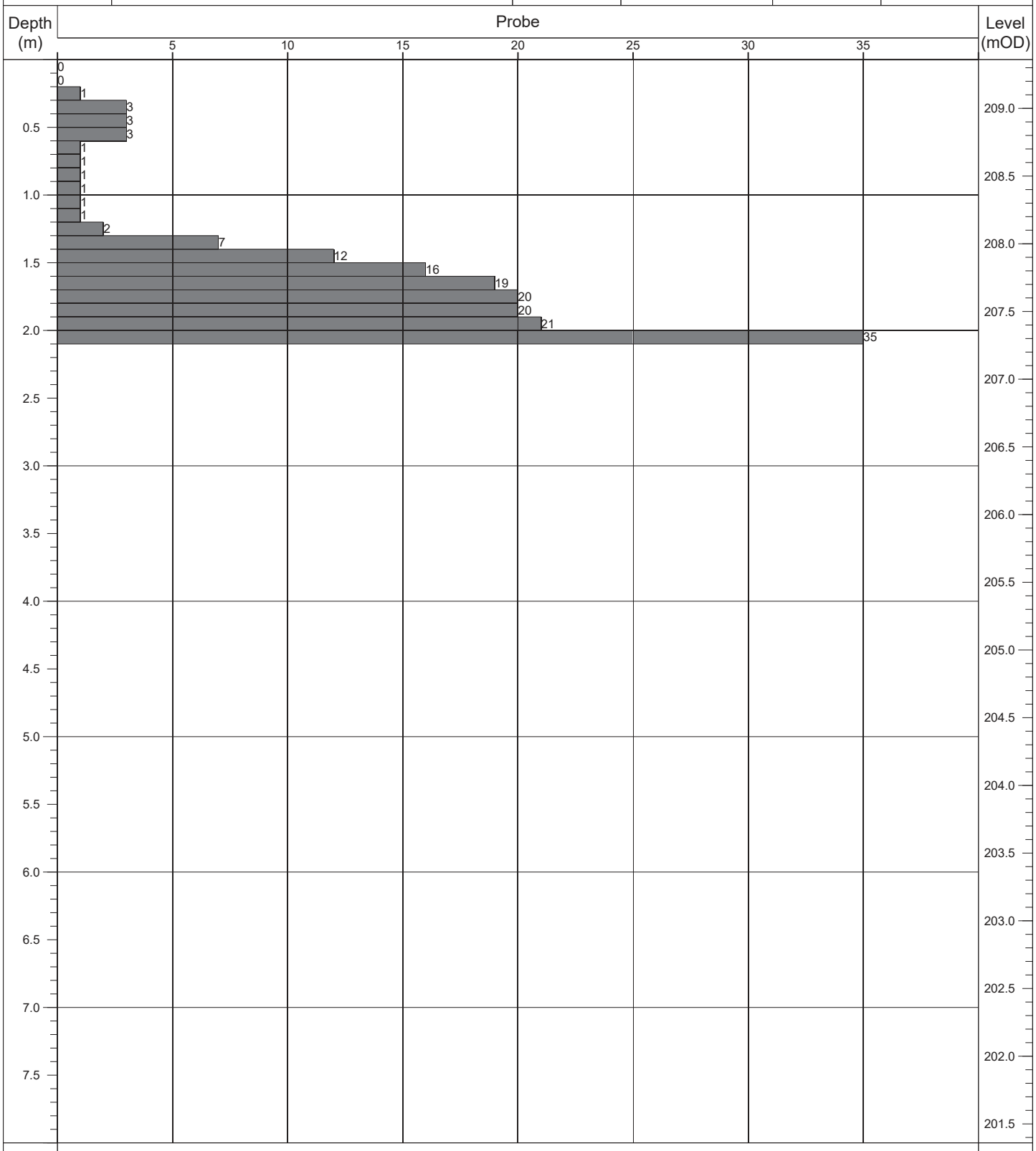
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP121
Contract:	Blessington - Phase 3	Easting:	697846.487	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715248.482	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.57	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



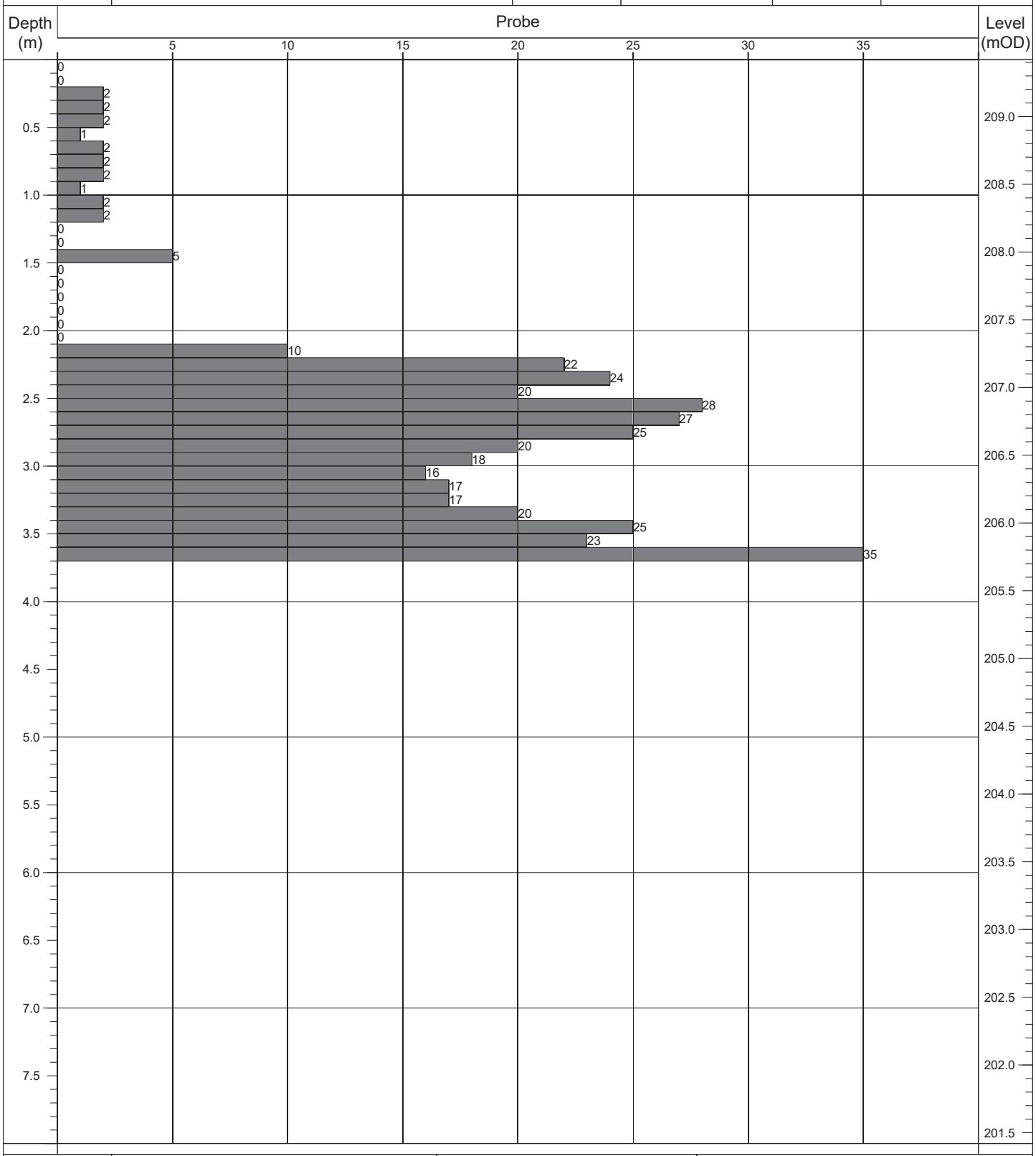
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP122
Contract:	Blessington - Phase 3	Easting:	697850.776	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715244.716	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.36	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



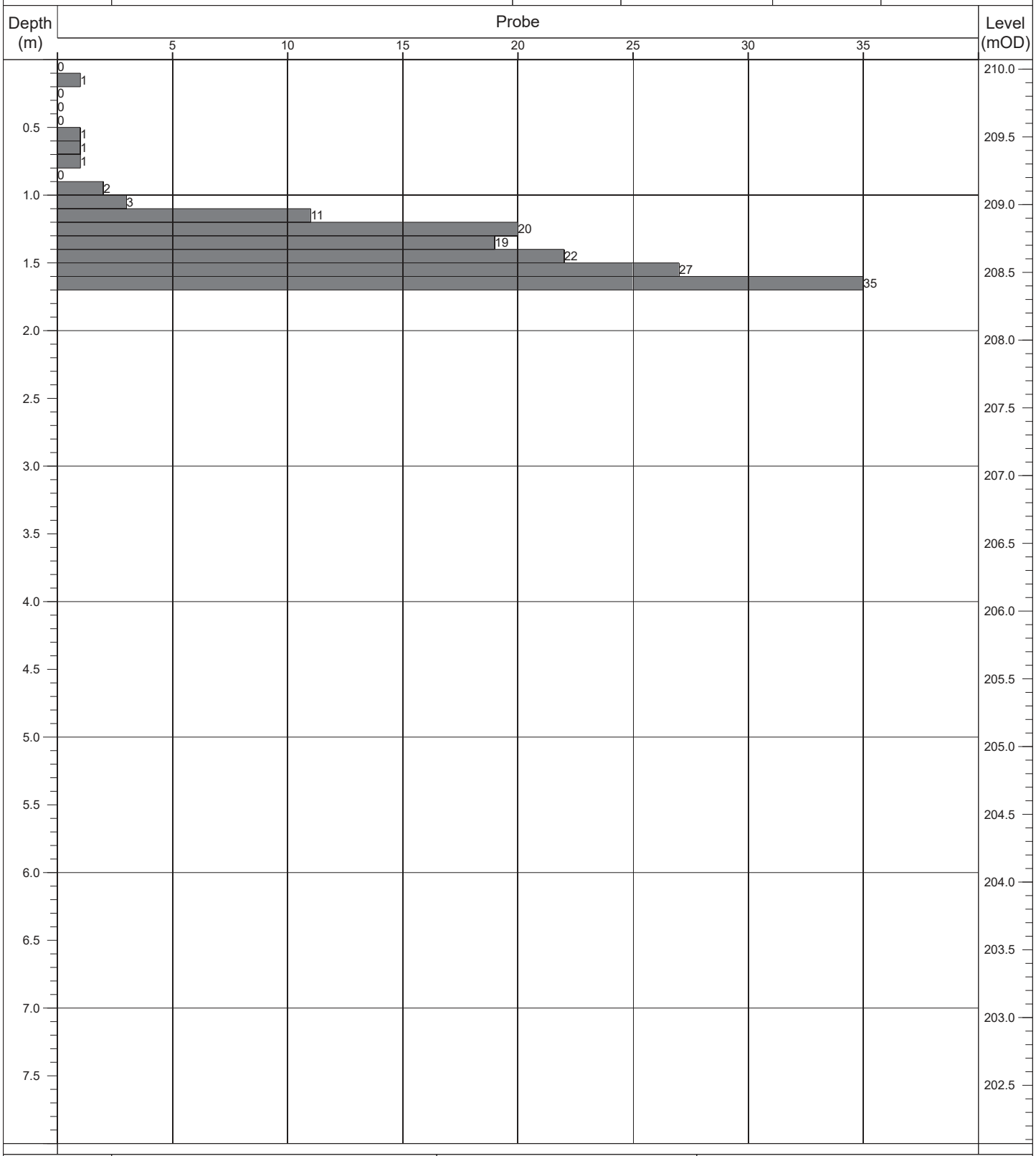
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP123
Contract:	Blessington - Phase 3	Easting:	697884.433	Date Started:	08/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715263.212	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.42	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



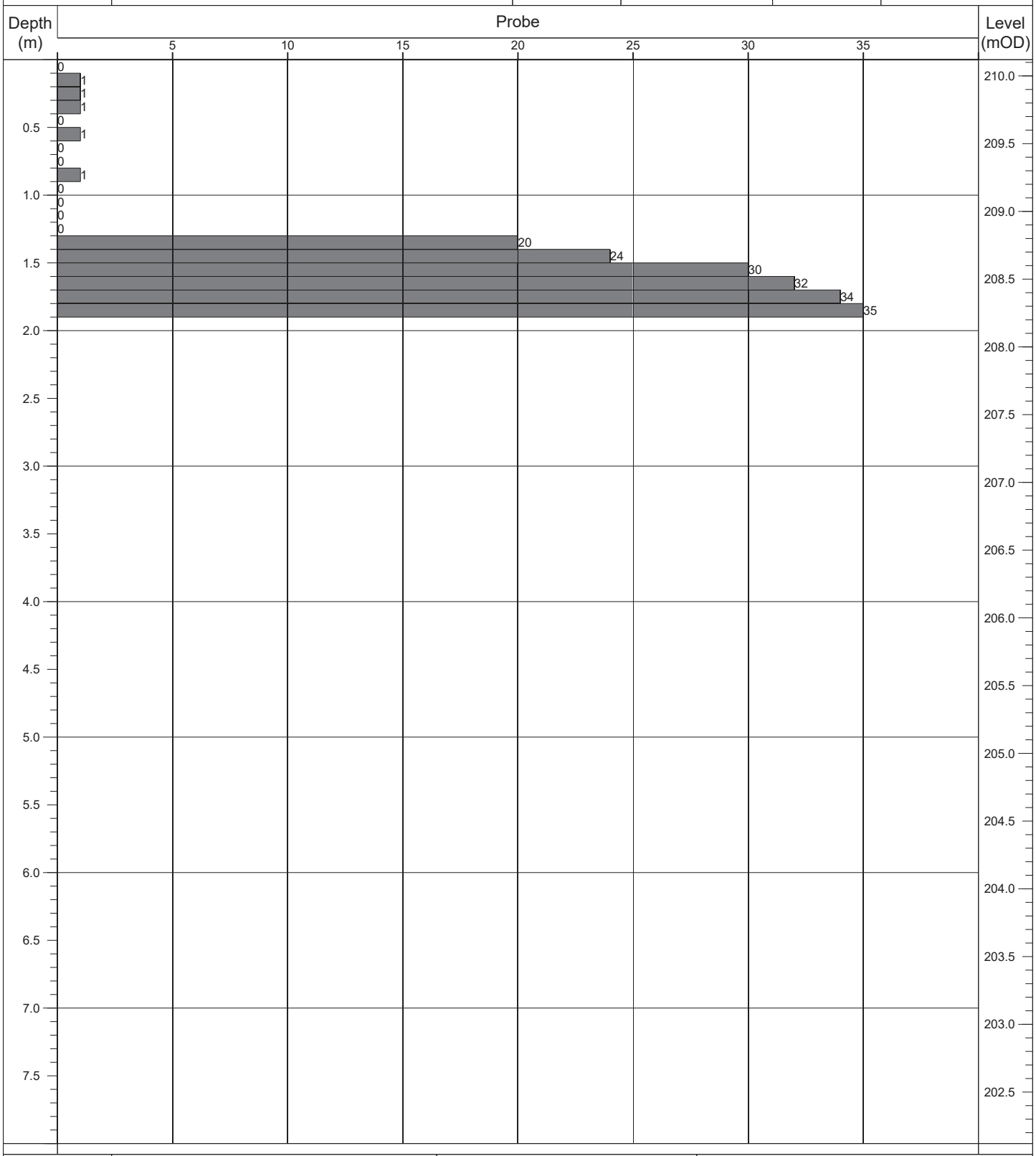
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP124
Contract:	Blessington - Phase 3	Easting:	697790.423	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715199.358	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.07	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



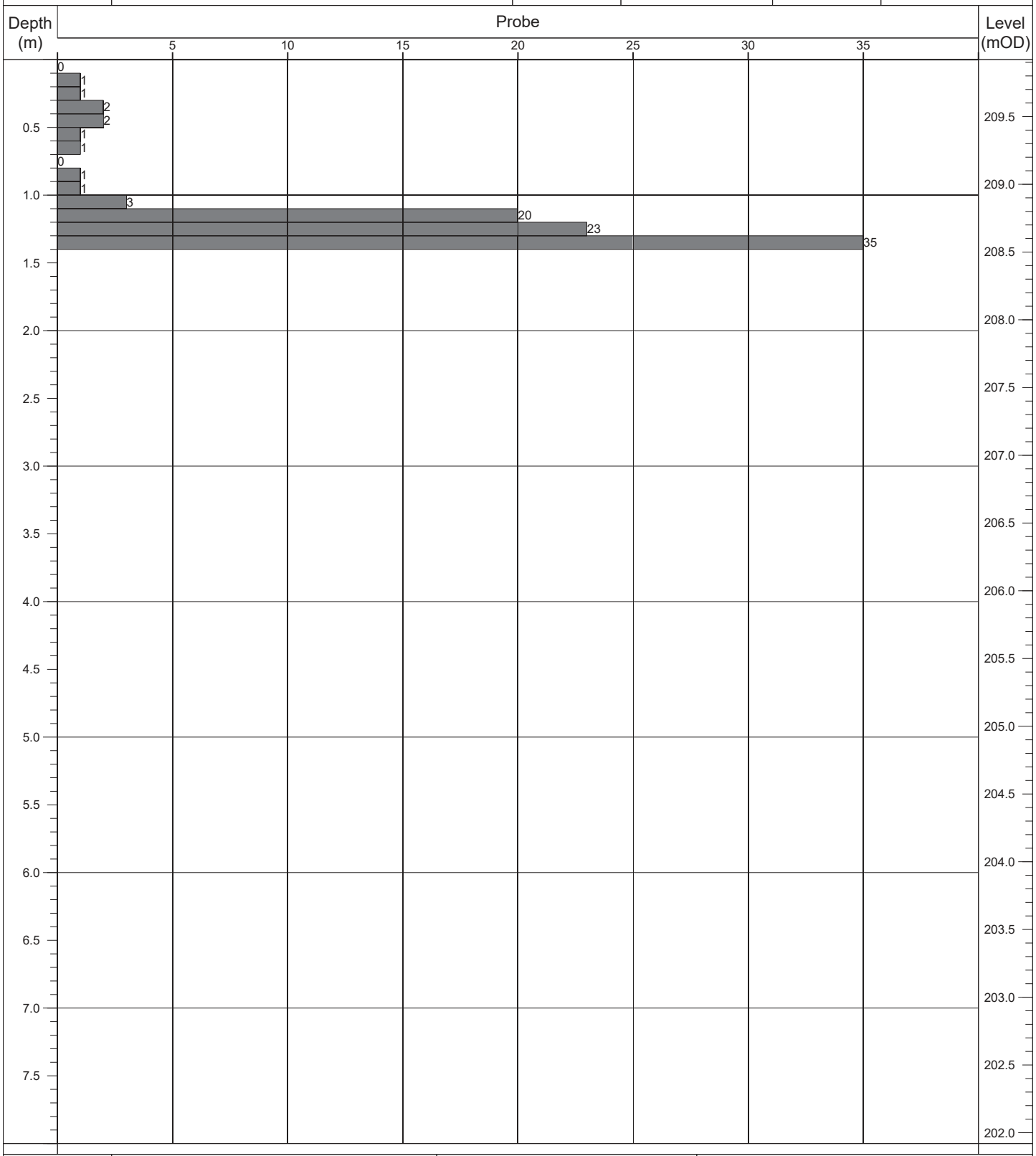
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP125
Contract:	Blessington - Phase 3	Easting:	697793.975	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715202.946	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.12	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



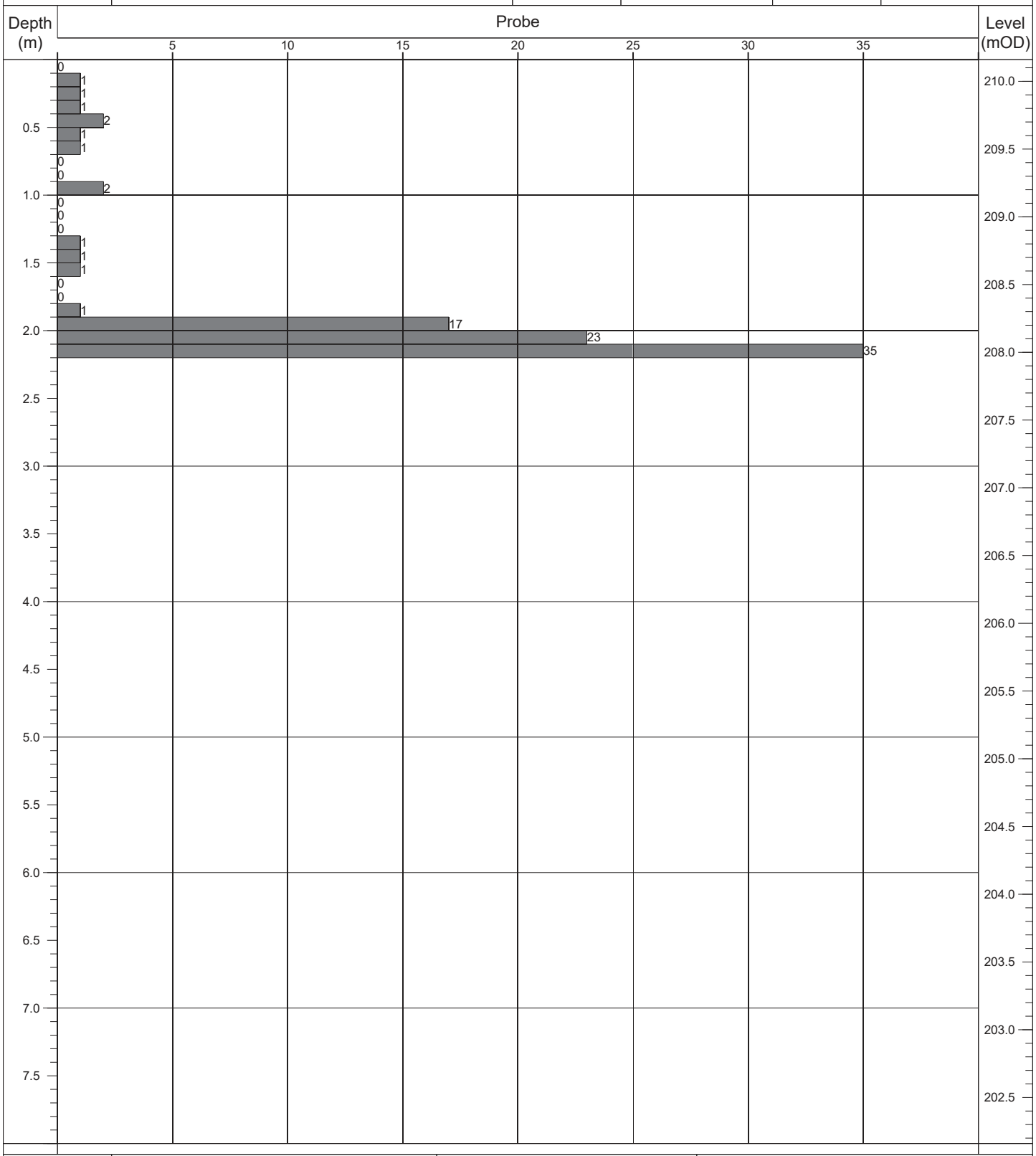
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP127
Contract:	Blessington - Phase 3	Easting:	697786.461	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715194.861	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.92	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



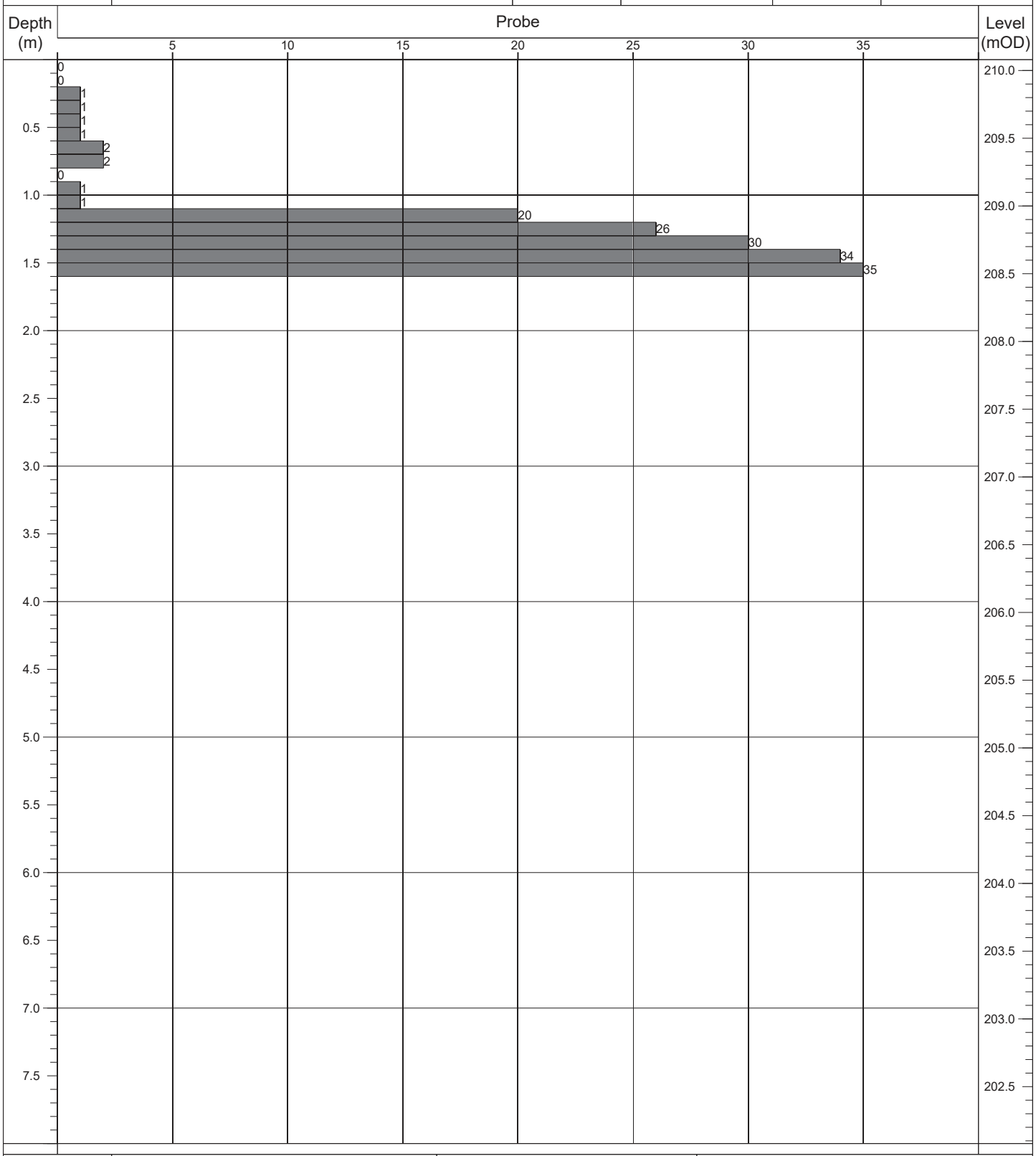
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP128
Contract:	Blessington - Phase 3	Easting:	697807.454	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715216.305	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.16	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



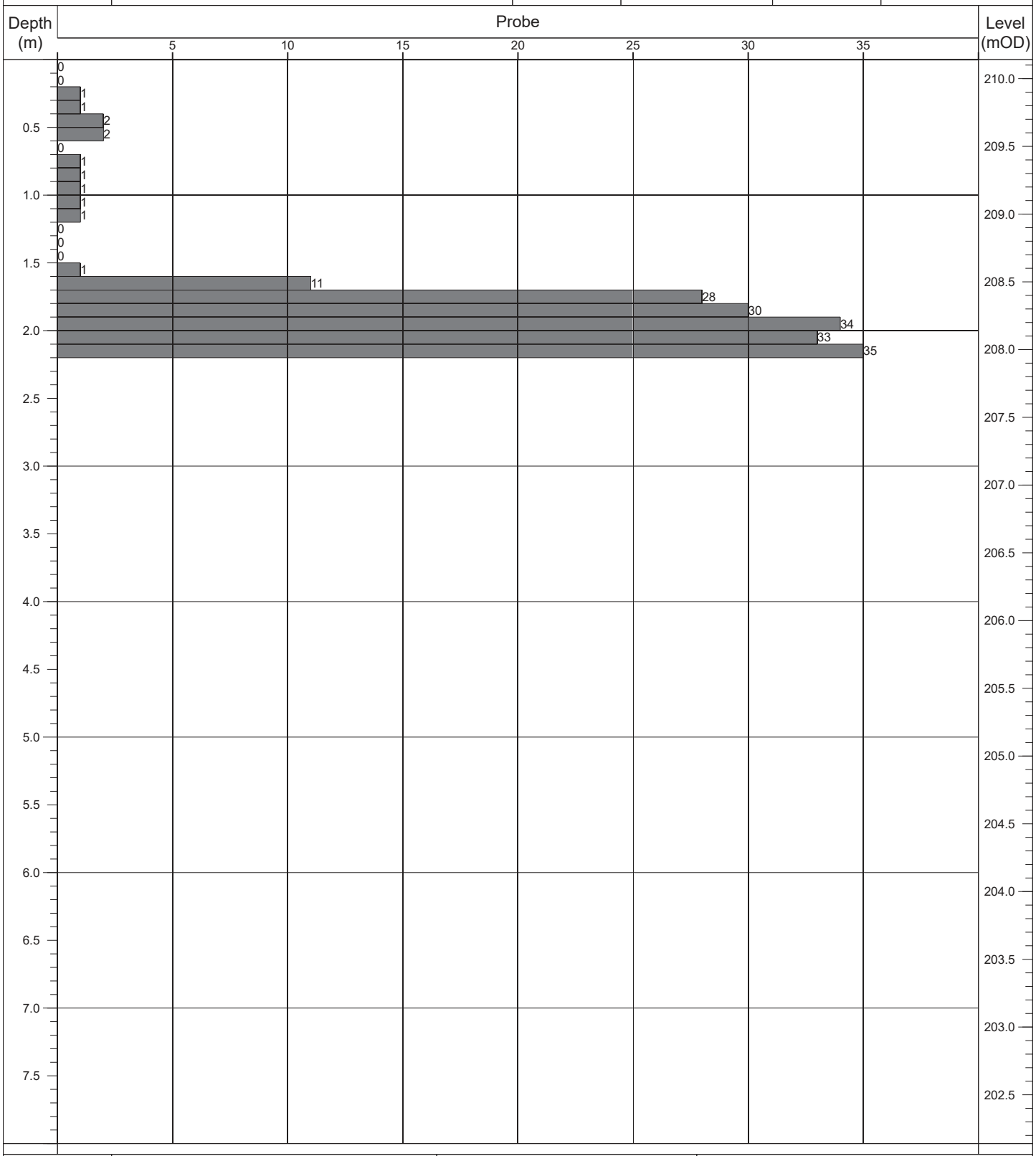
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP130
Contract:	Blessington - Phase 3	Easting:	697797.955	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715206.522	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.08	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



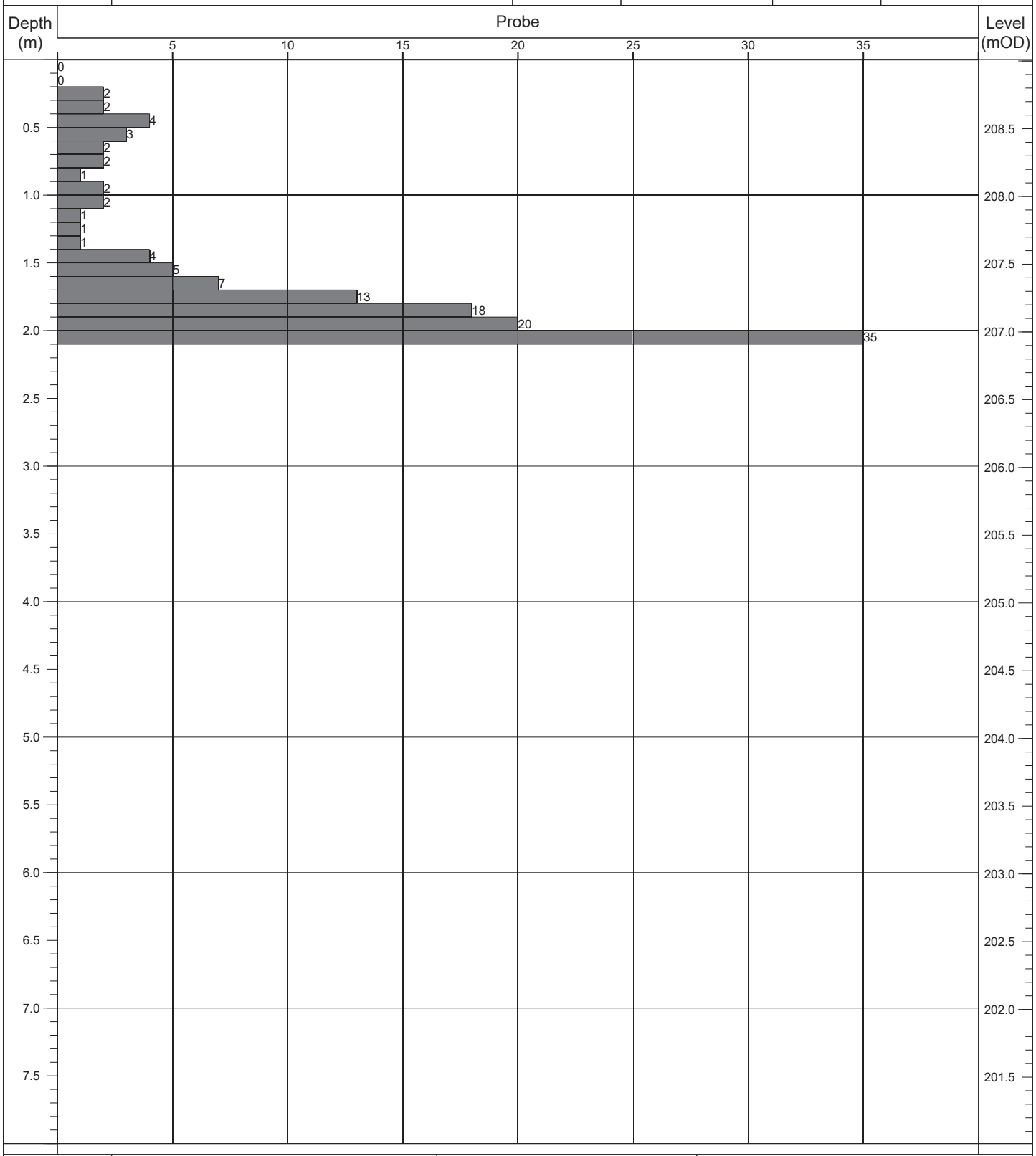
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP131
Contract:	Blessington - Phase 3	Easting:	697803.701	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715212.754	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.14	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



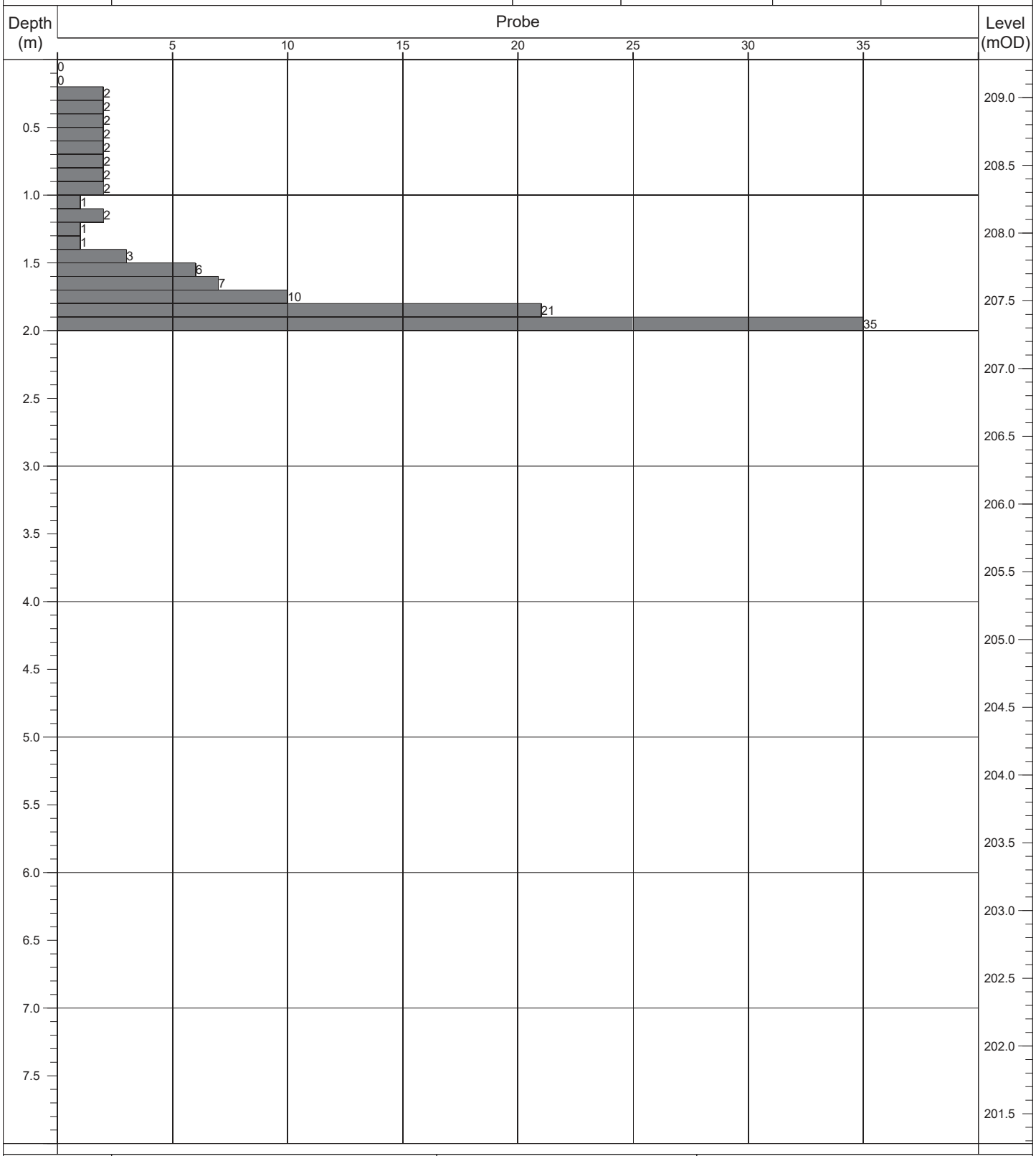
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP133**
Contract:	Blessington - Phase 3	Easting:	697887.033	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715244.107	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.01	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



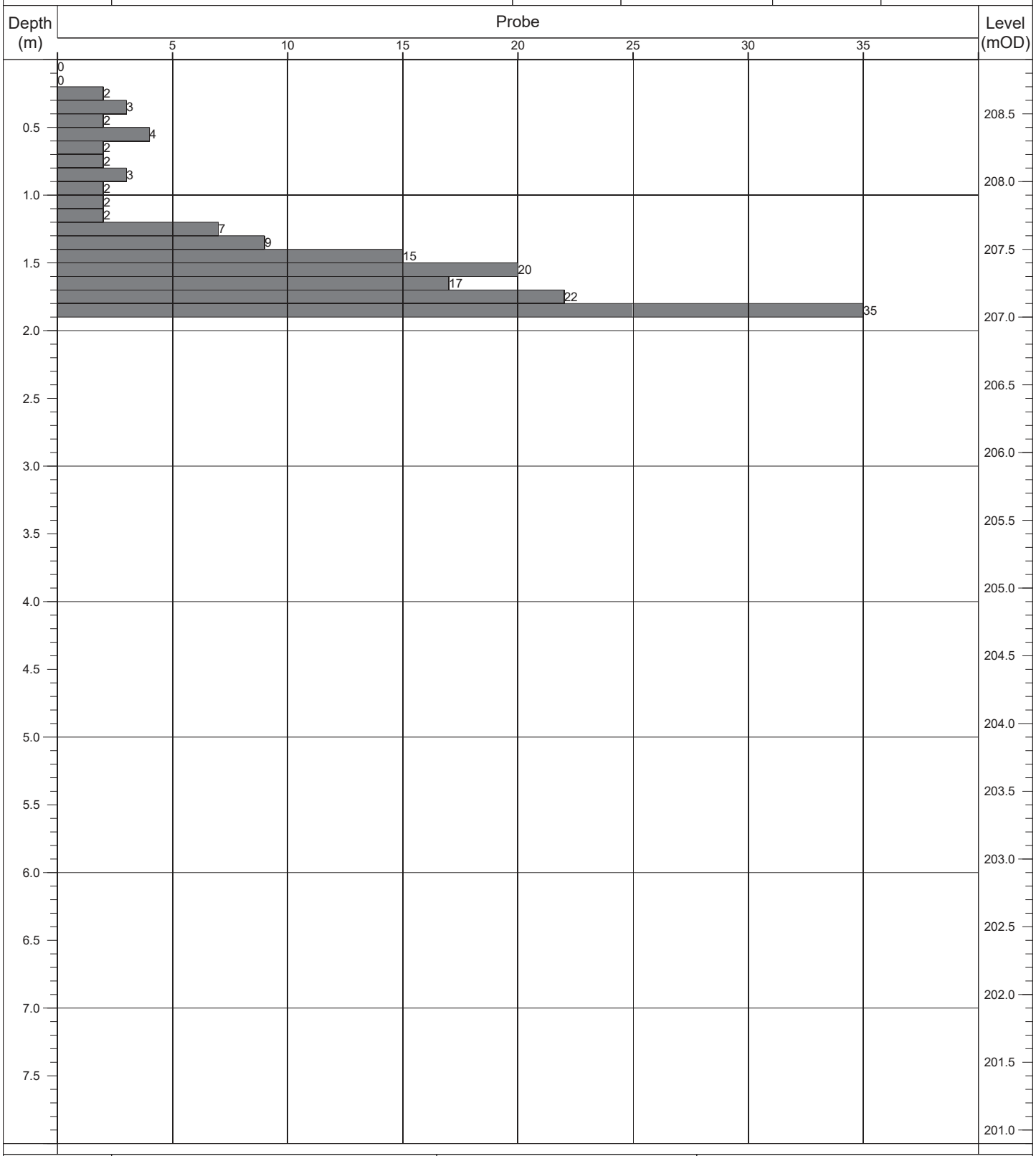
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP134
Contract:	Blessington - Phase 3	Easting:	697894.153	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715251.363	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.28	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



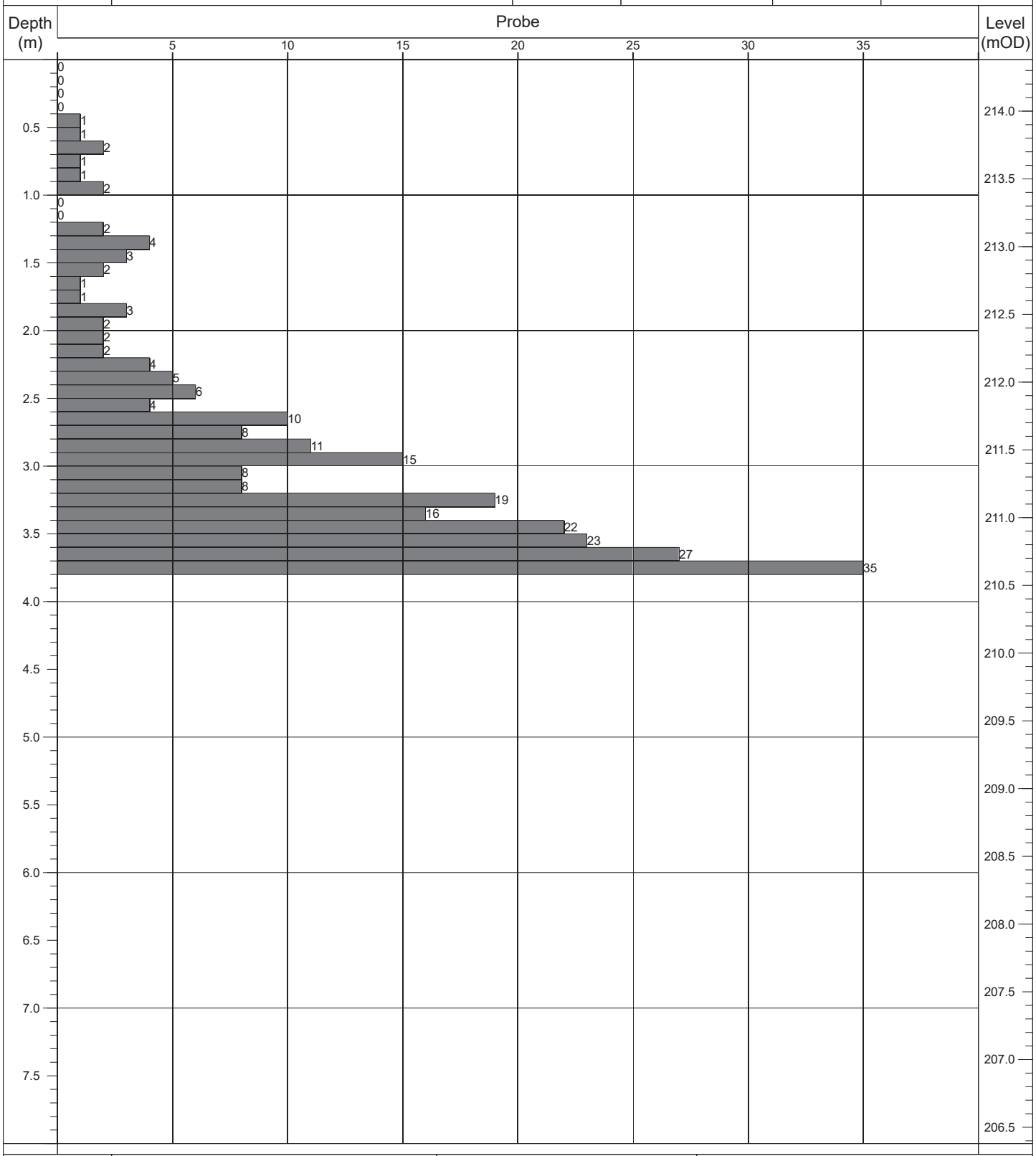
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP136
Contract:	Blessington - Phase 3	Easting:	697877.551	Date Started:	09/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715234.493	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	208.90	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



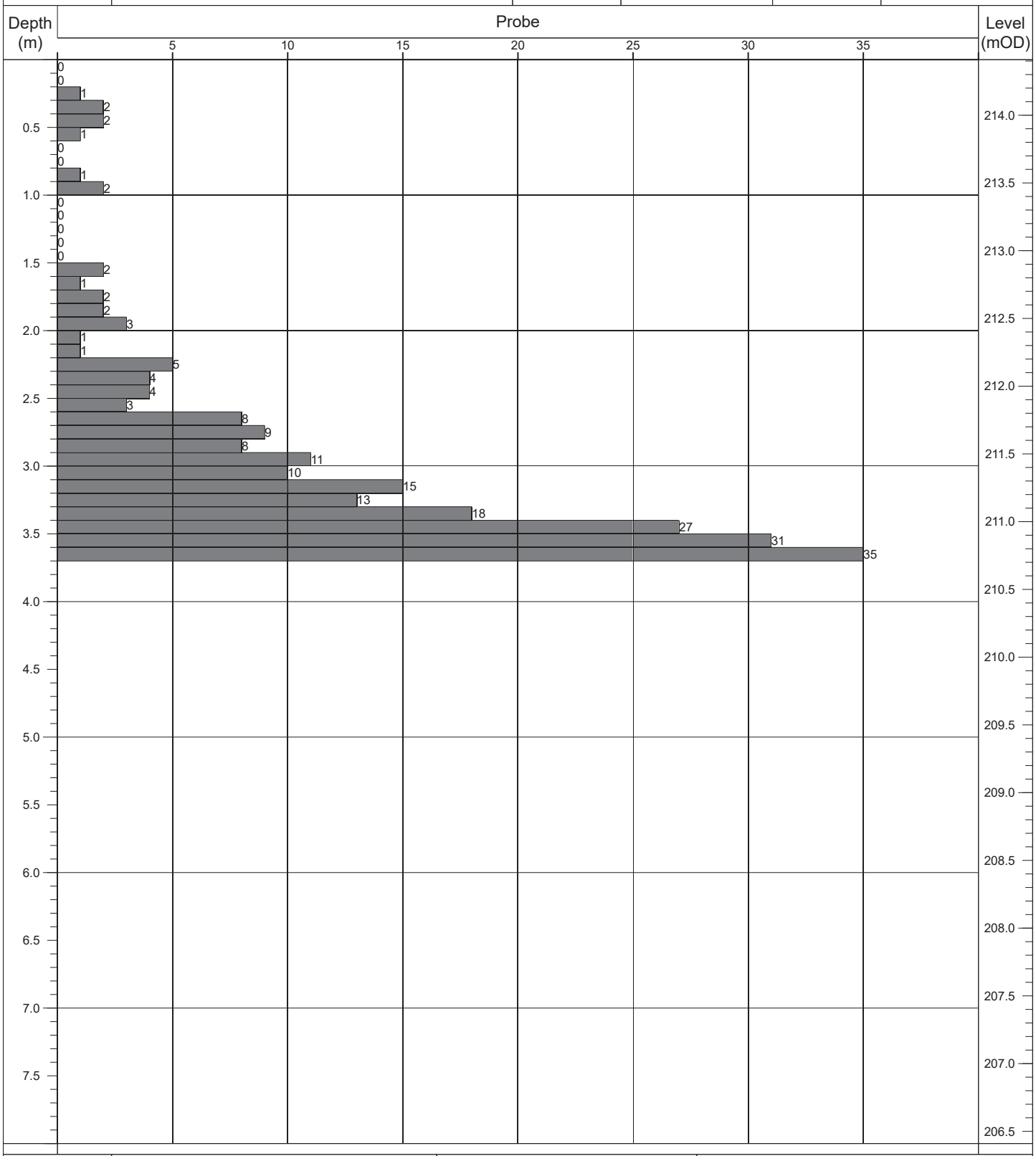
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP141**
Contract:	Blessington - Phase 3	Easting:	697770.747	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715353.943	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	214.38	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



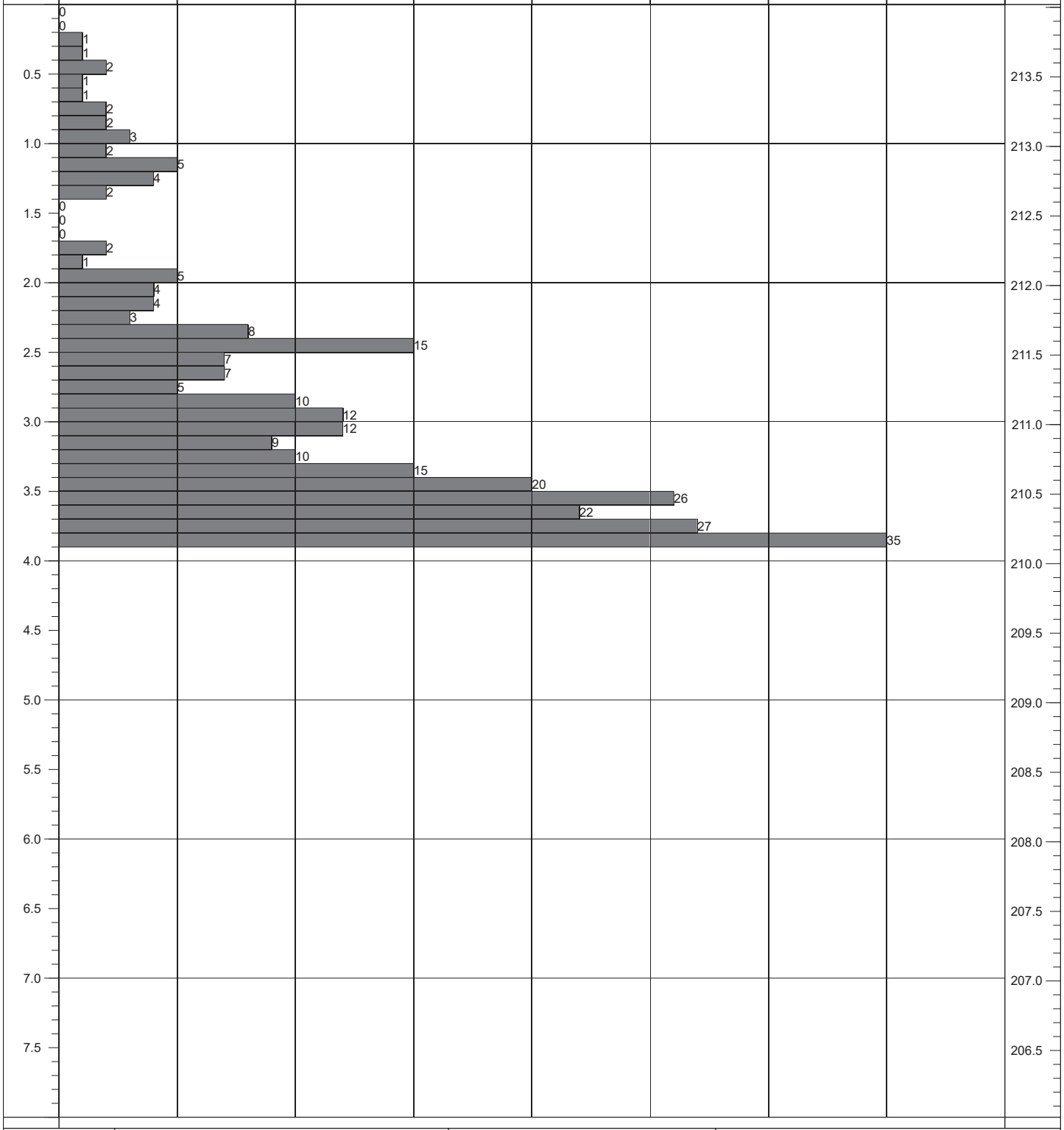
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP142**
Contract:	Blessington - Phase 3	Easting:	697774.729	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715357.642	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	214.41	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



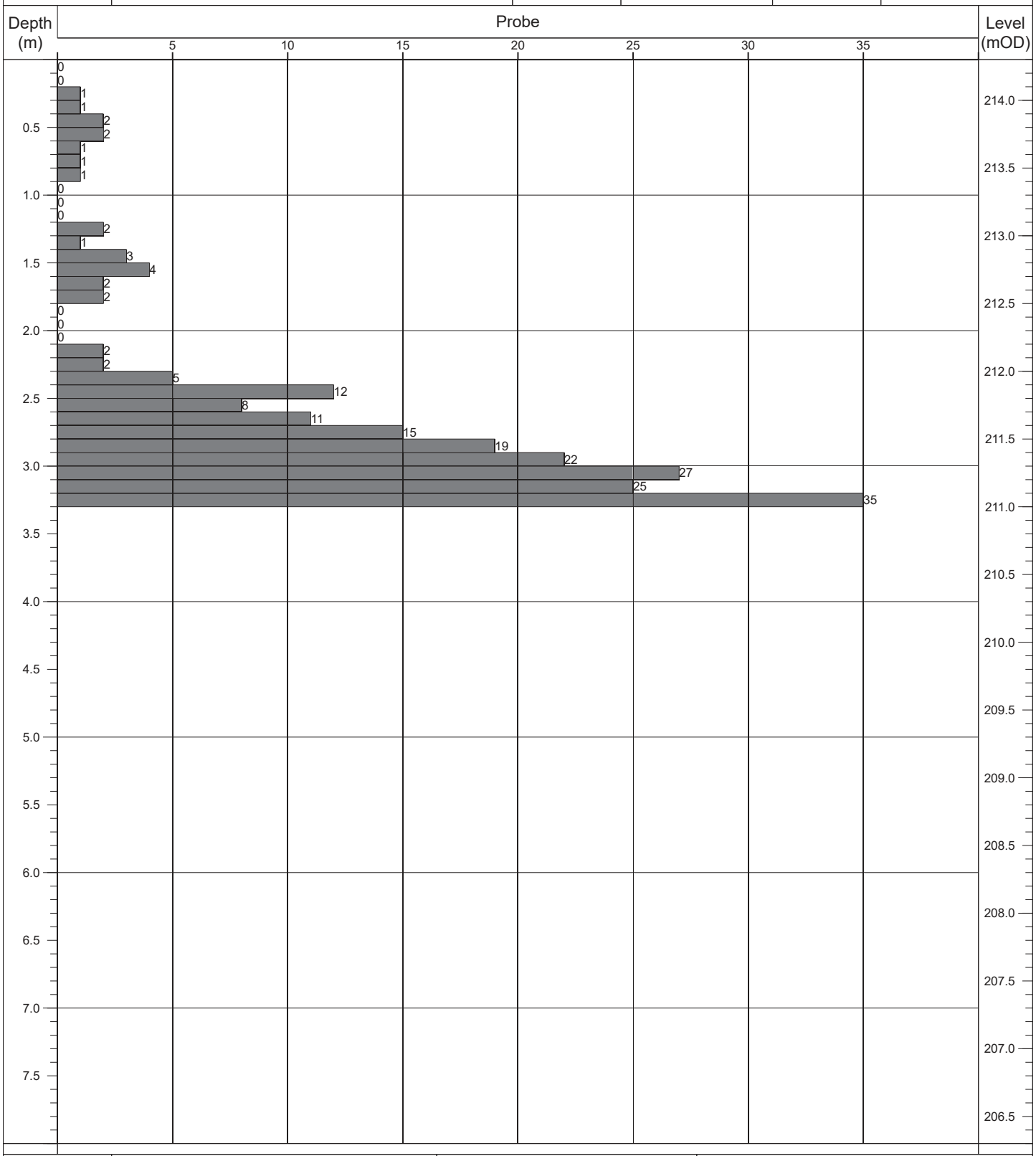
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No:	Dynamic Probe Log				Probe No:
6100					**DP143**
Contract:	Blessington - Phase 3	Easting:	697761.282	Date Started:	15/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715343.984	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	214.02	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



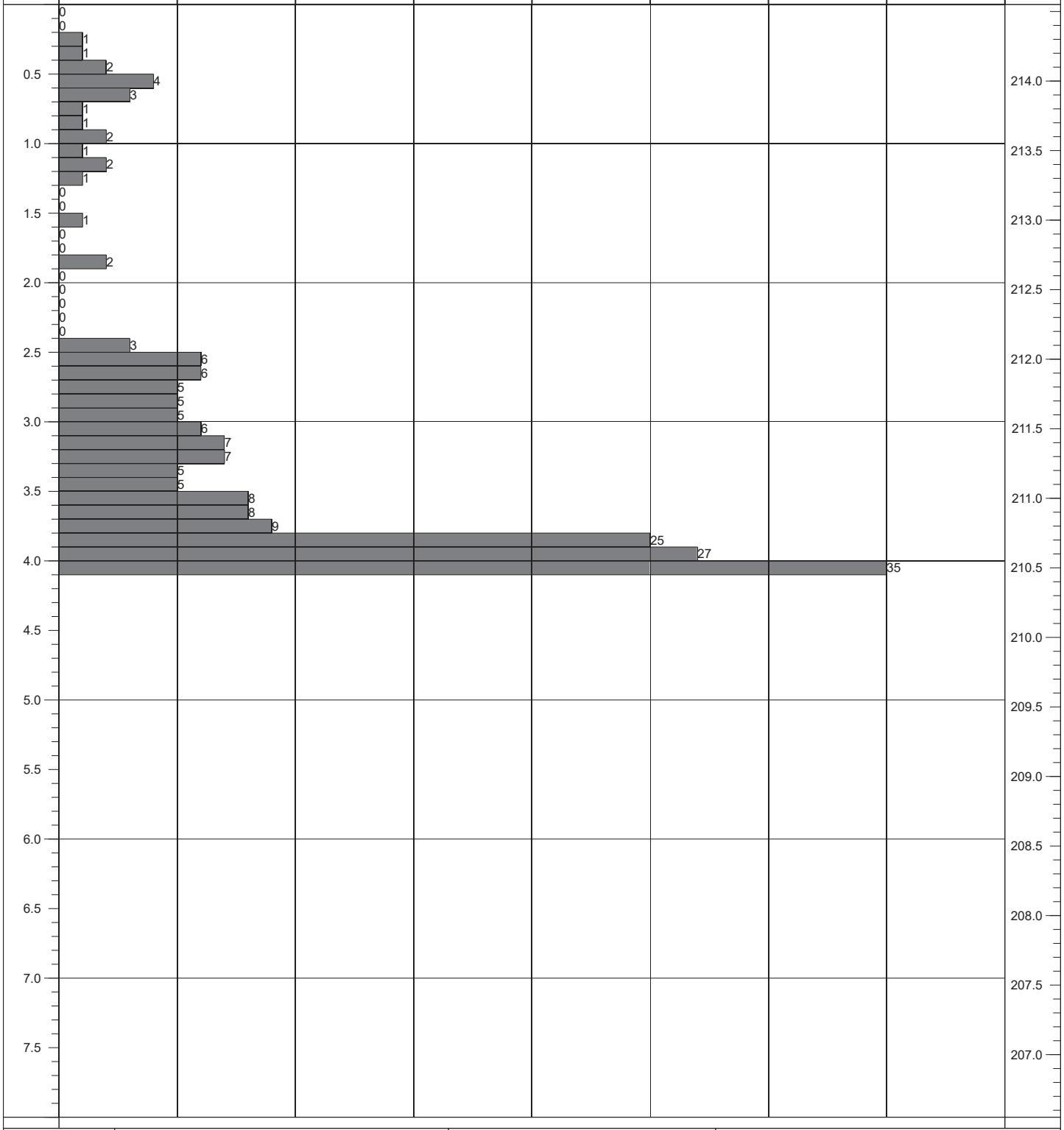
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP144
Contract:	Blessington - Phase 3	Easting:	697766.919	Date Started:	14/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715349.974	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	214.30	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



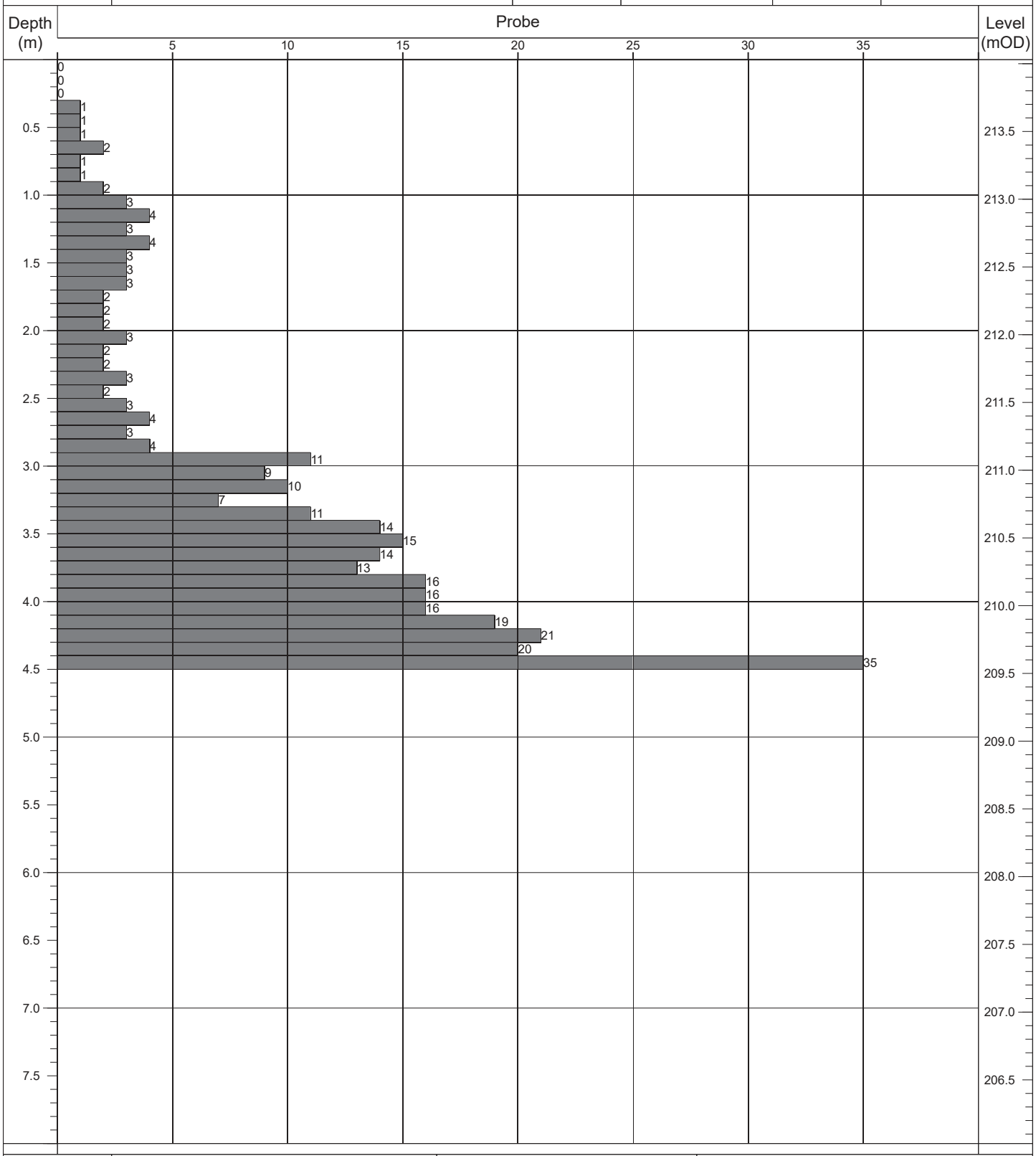
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP145
Contract:	Blessington - Phase 3	Easting:	697788.554	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715371.625	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	214.55	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



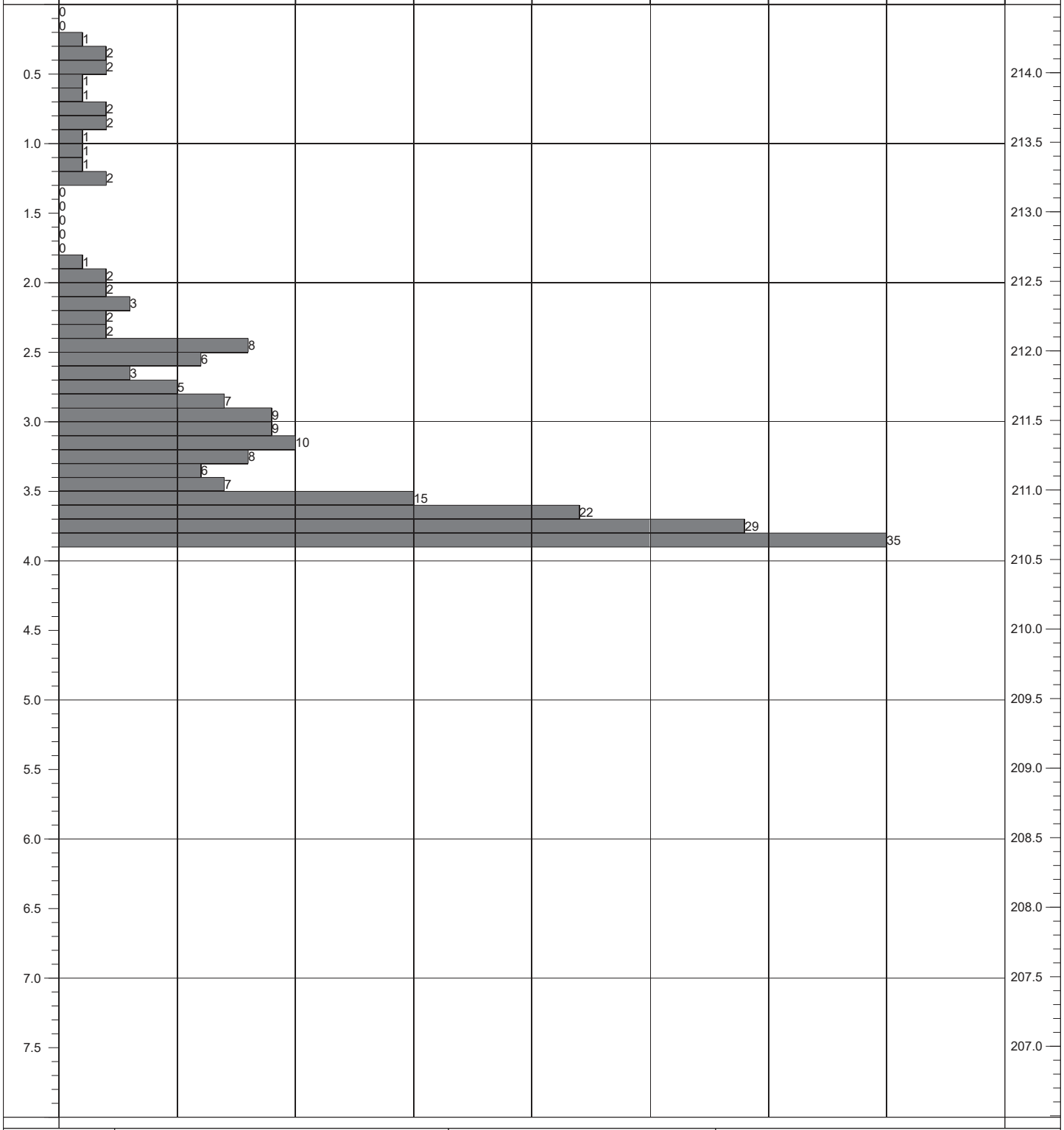
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP146
Contract:	Blessington - Phase 3	Easting:	697801.511	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715352.478	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.03	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



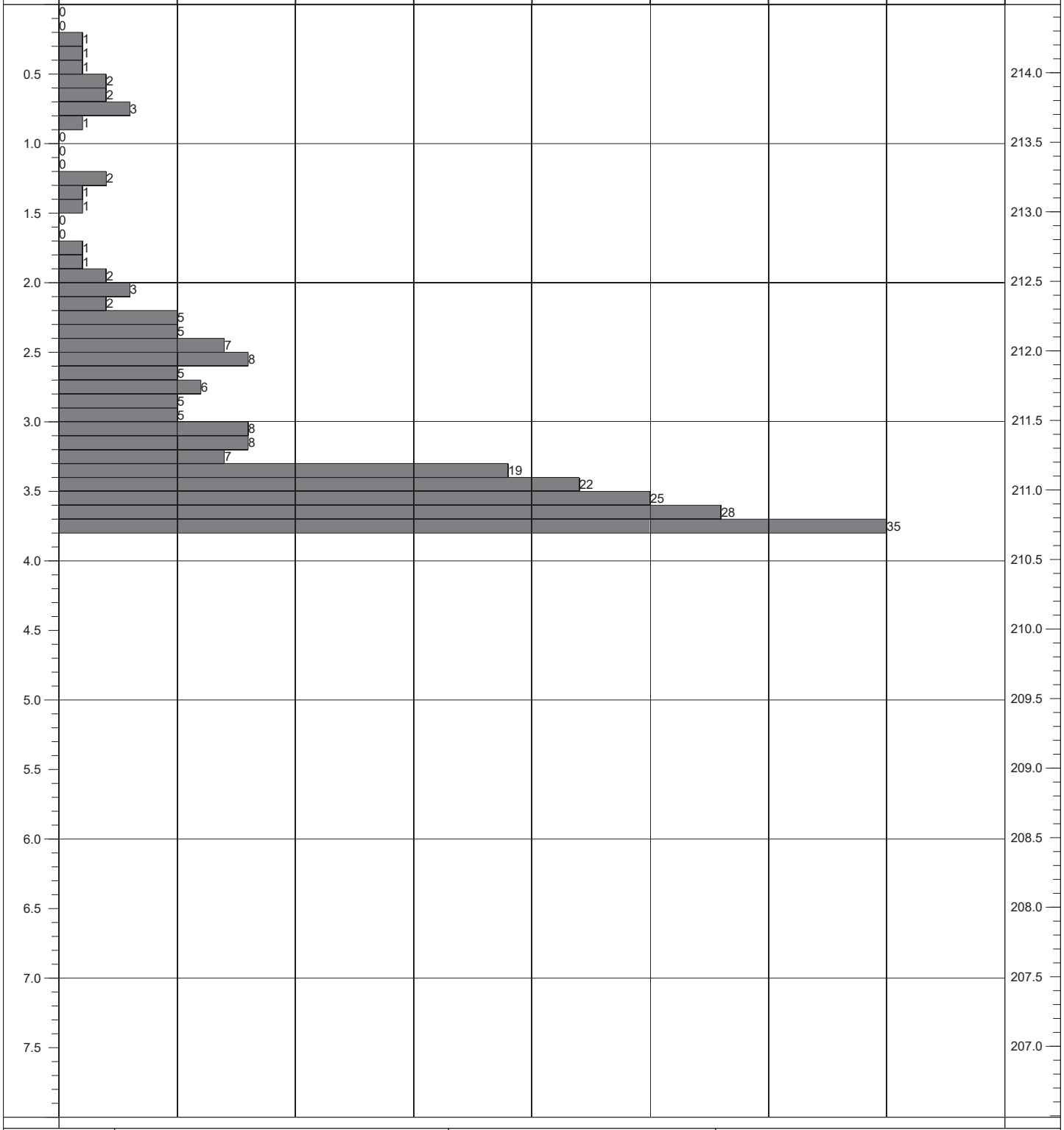
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP147
Contract:	Blessington - Phase 3	Easting:	697778.875	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715361.799	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	214.49	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



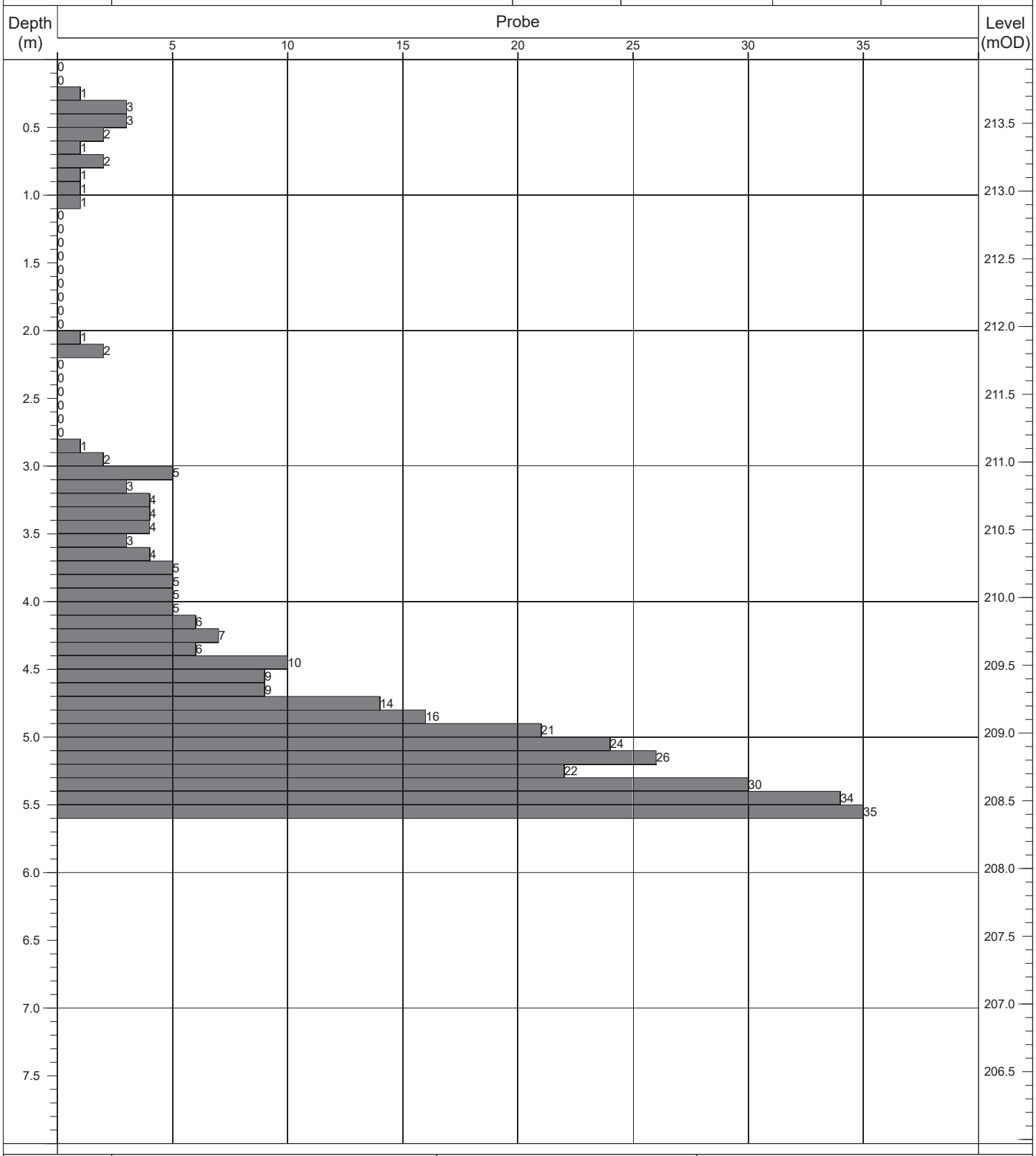
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP148
Contract:	Blessington - Phase 3	Easting:	697784.480	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715367.888	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	214.49	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



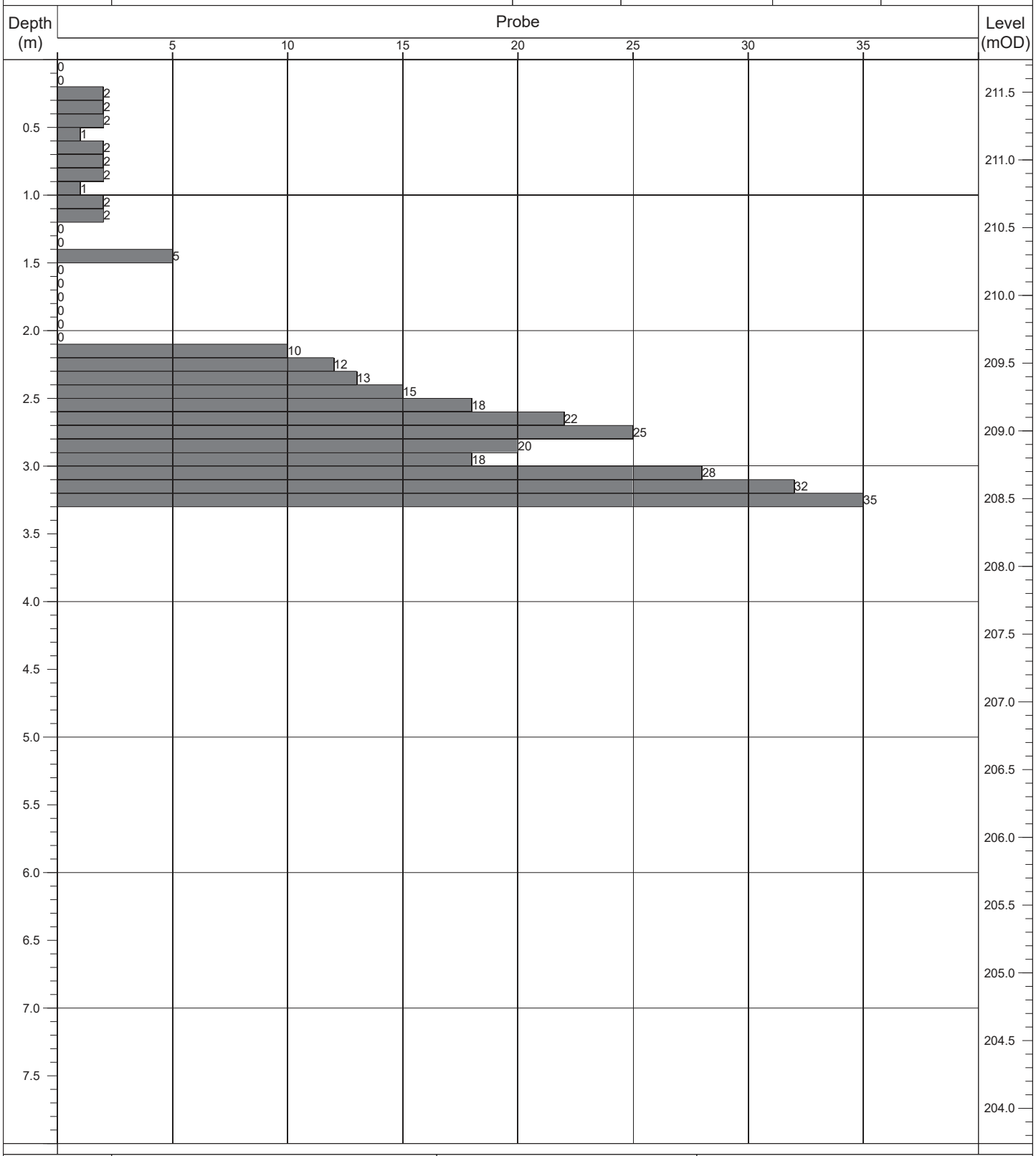
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP149**
Contract:	Blessington - Phase 3	Easting:	697756.587	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715341.034	Logged By:	
Client:	Cairn Homes Ltd	Elevation:	213.97	Scale:	1:40
Engineer:	DBFL	Rig Type:		Sheet No:	Sheet 1 of 1



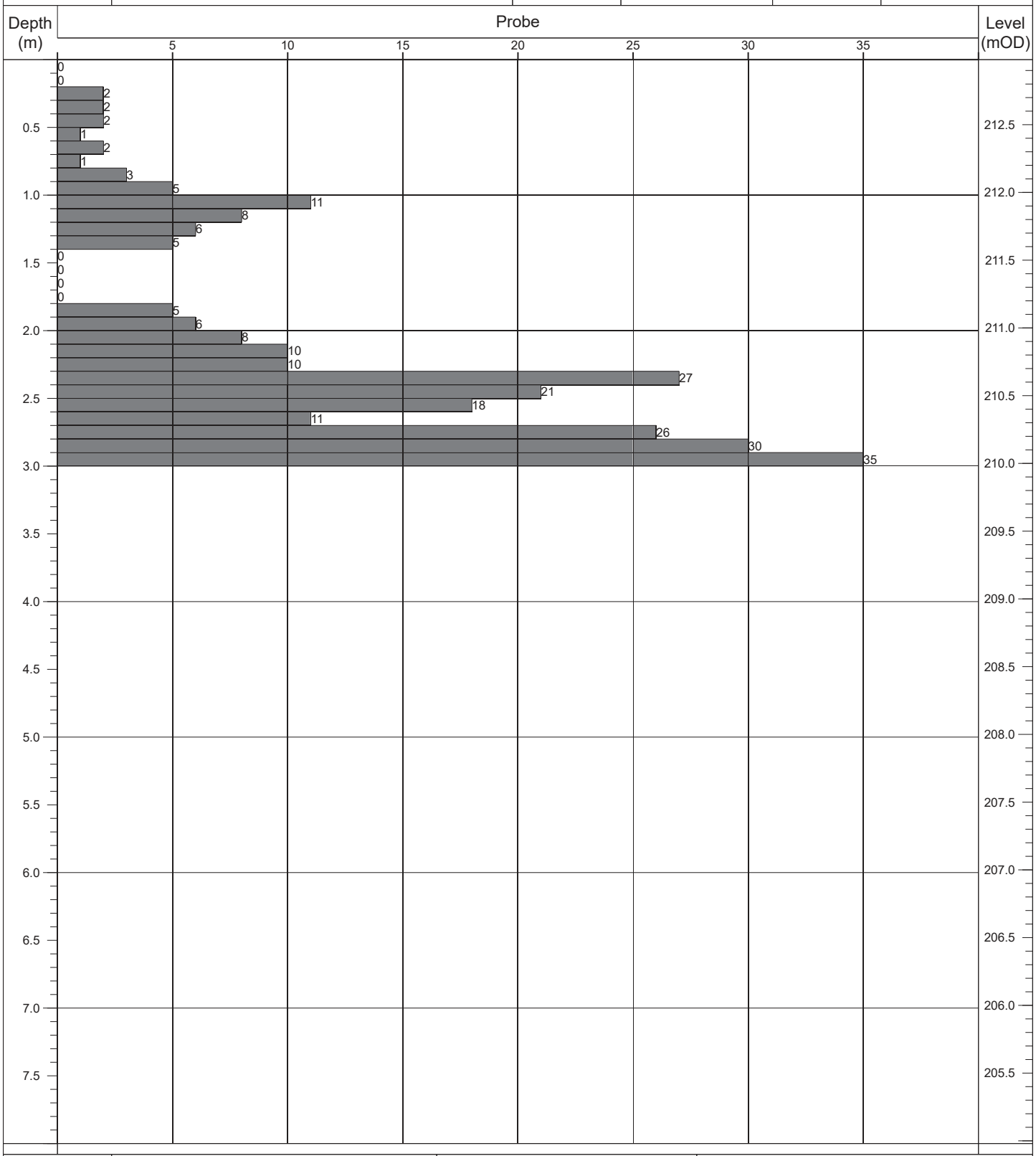
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP150
Contract:	Blessington - Phase 3	Easting:	697756.982	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715289.108	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	211.74	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



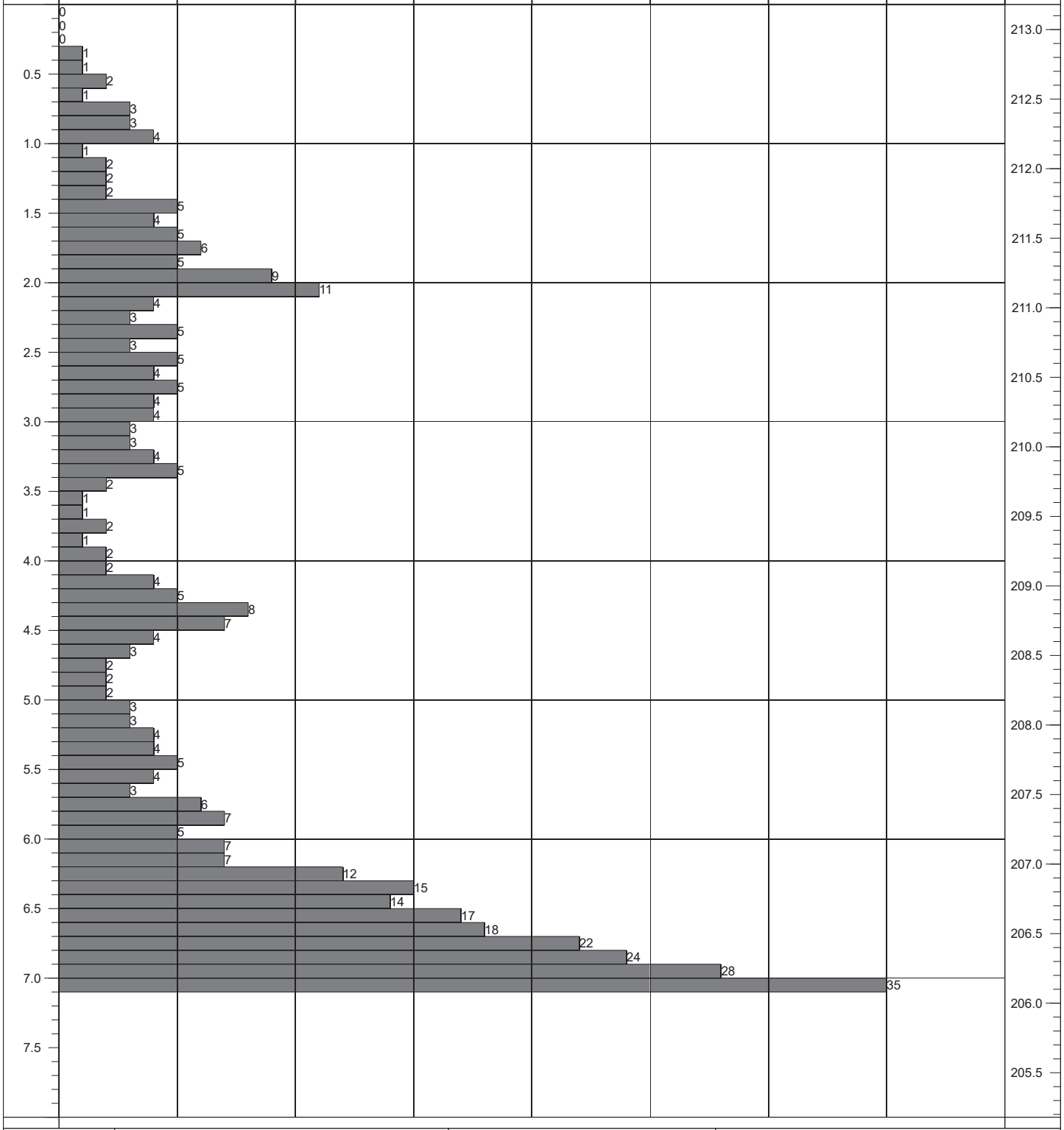
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP151
Contract:	Blessington - Phase 3	Easting:	697730.599	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715313.020	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	212.98	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



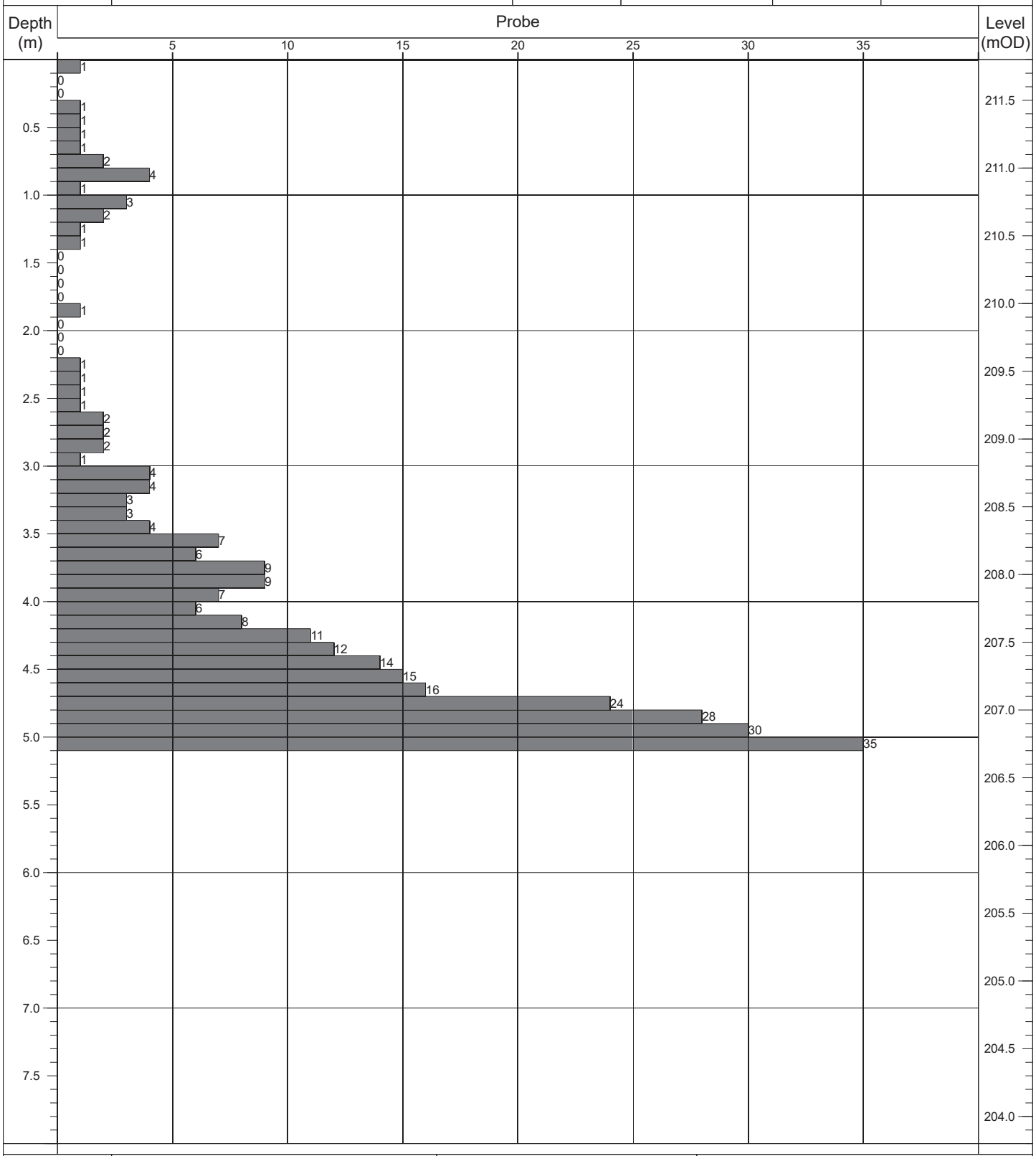
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP152
Contract:	Blessington - Phase 3	Easting:	697795.800	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715327.663	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.18	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



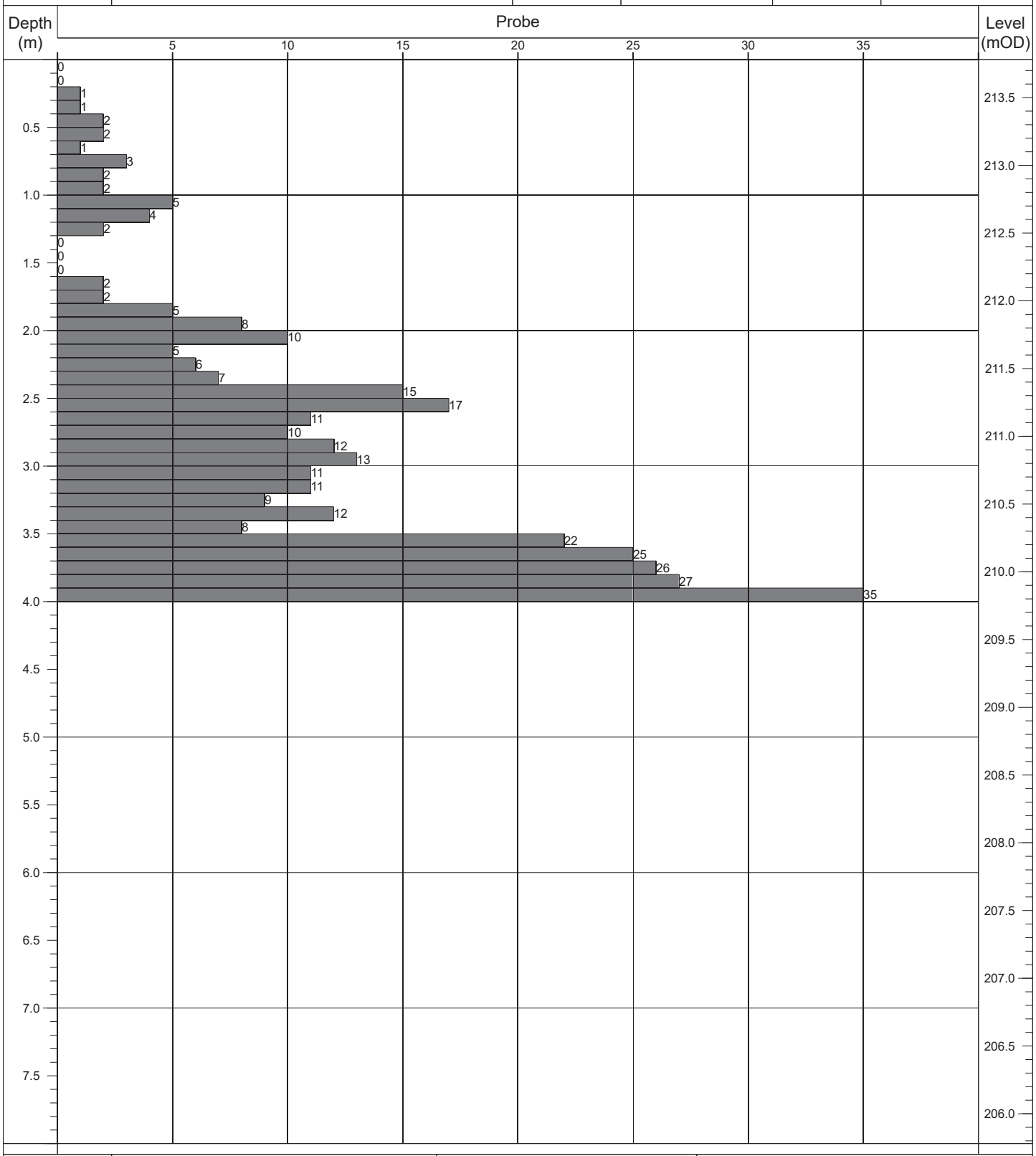
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
7.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP153
Contract:	Blessington - Phase 3	Easting:	697760.592	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715292.853	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.80	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



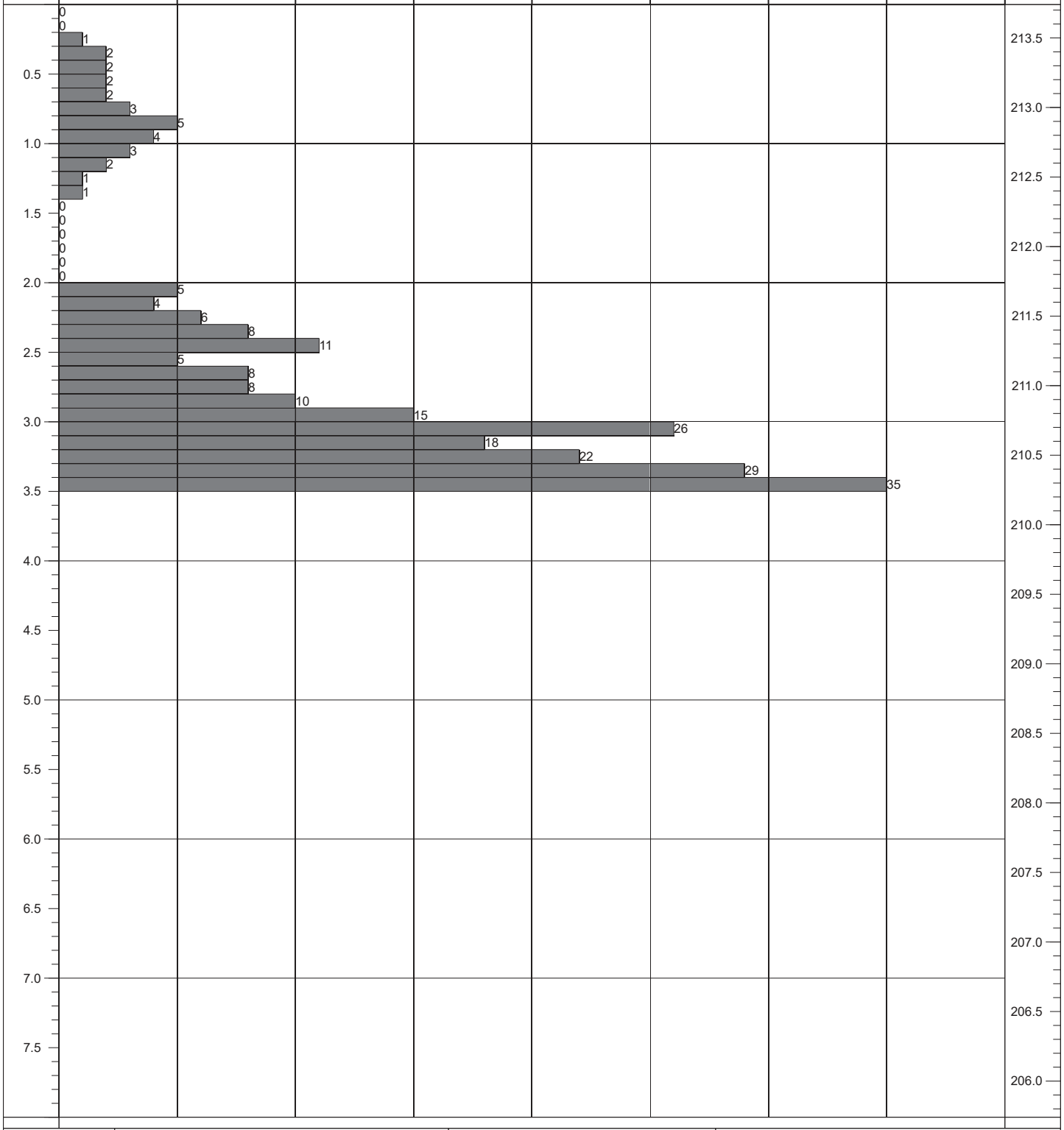
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP154
Contract:	Blessington - Phase 3	Easting:	697743.345	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715326.219	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.78	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



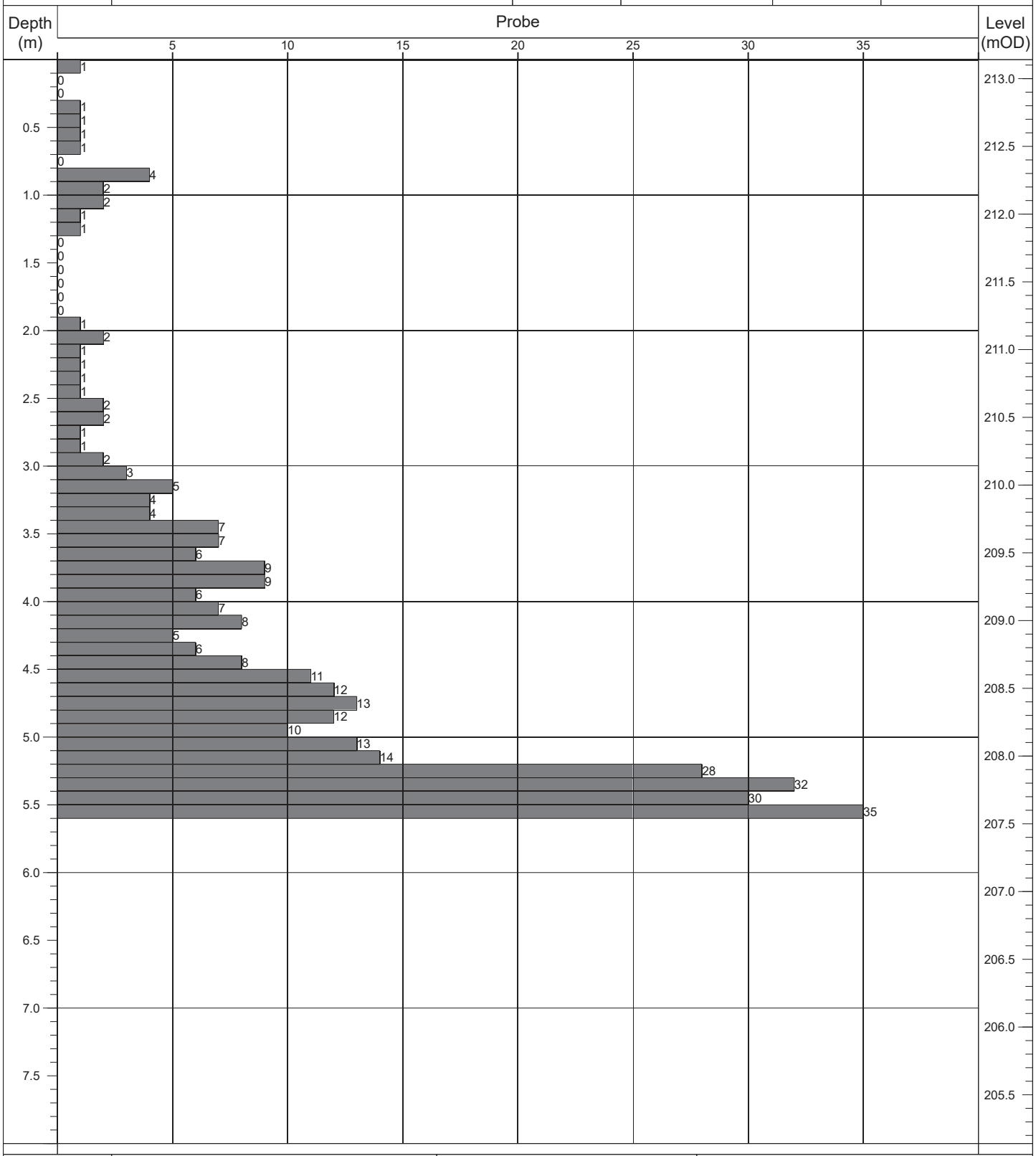
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP155
Contract:	Blessington - Phase 3	Easting:	697747.329	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715330.154	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.74	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



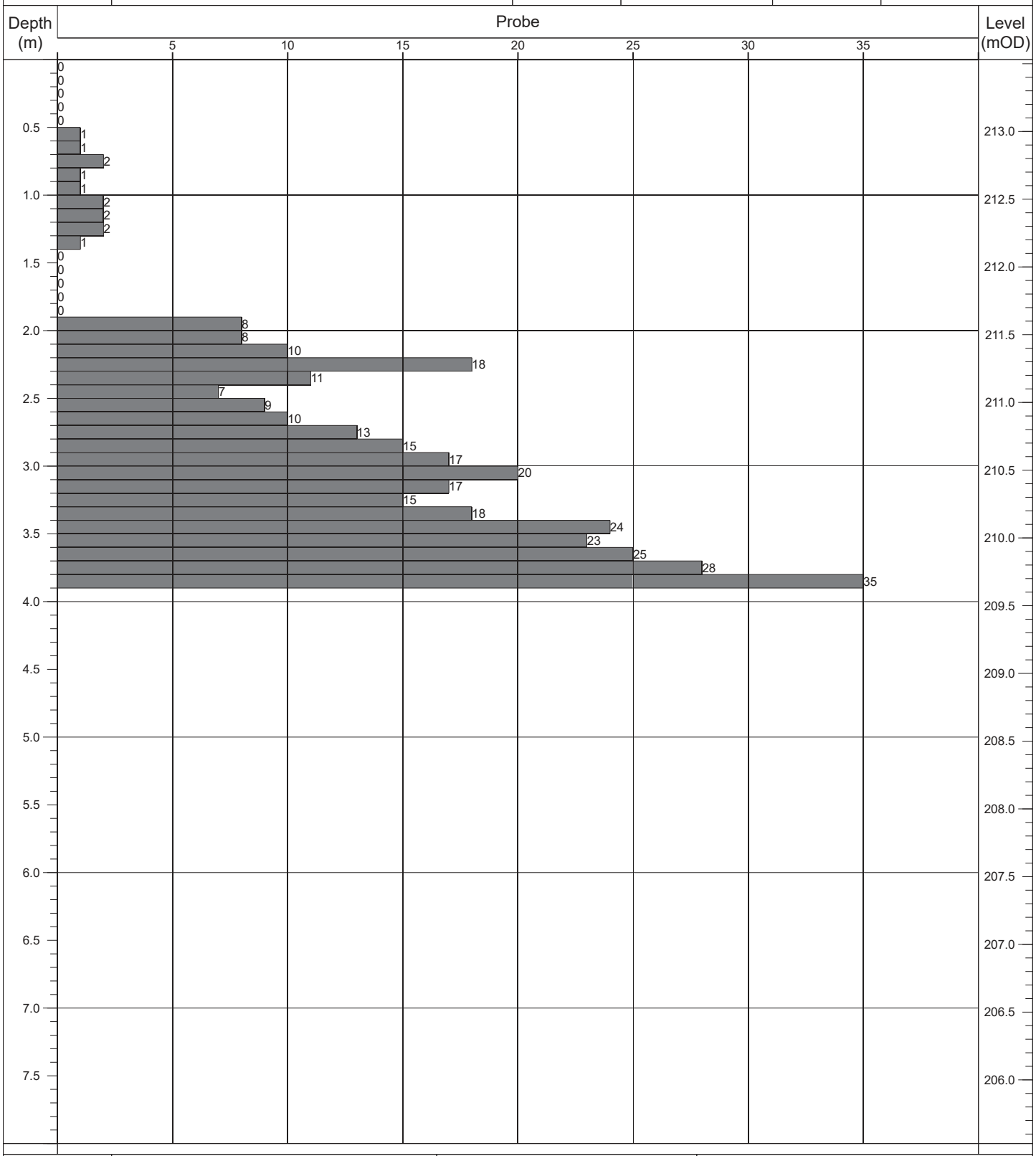
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: **DP156**
Contract:	Blessington - Phase 3	Easting:	697734.513	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715316.999	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.14	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



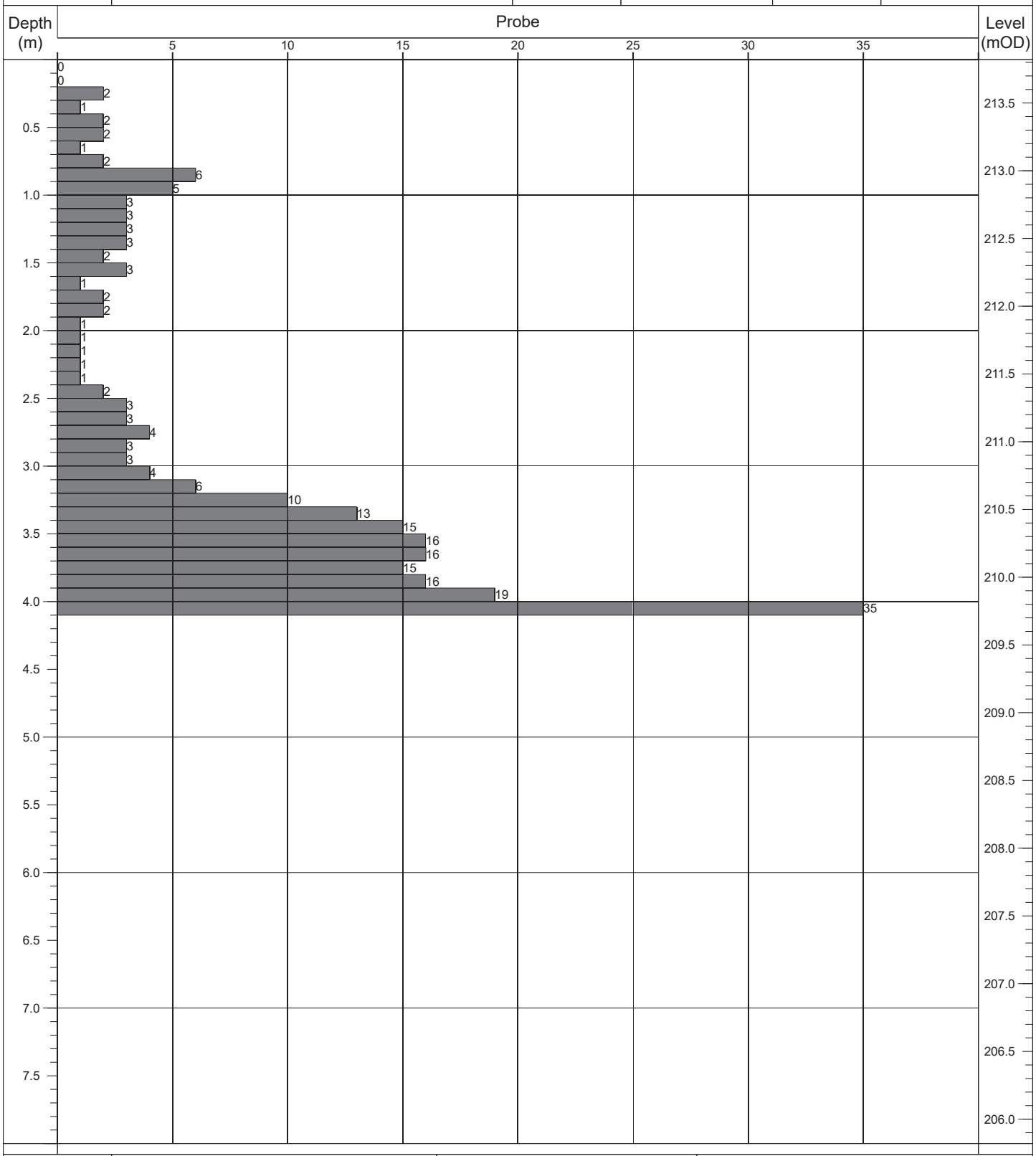
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP157
Contract:	Blessington - Phase 3	Easting:	697739.109	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715322.308	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.53	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



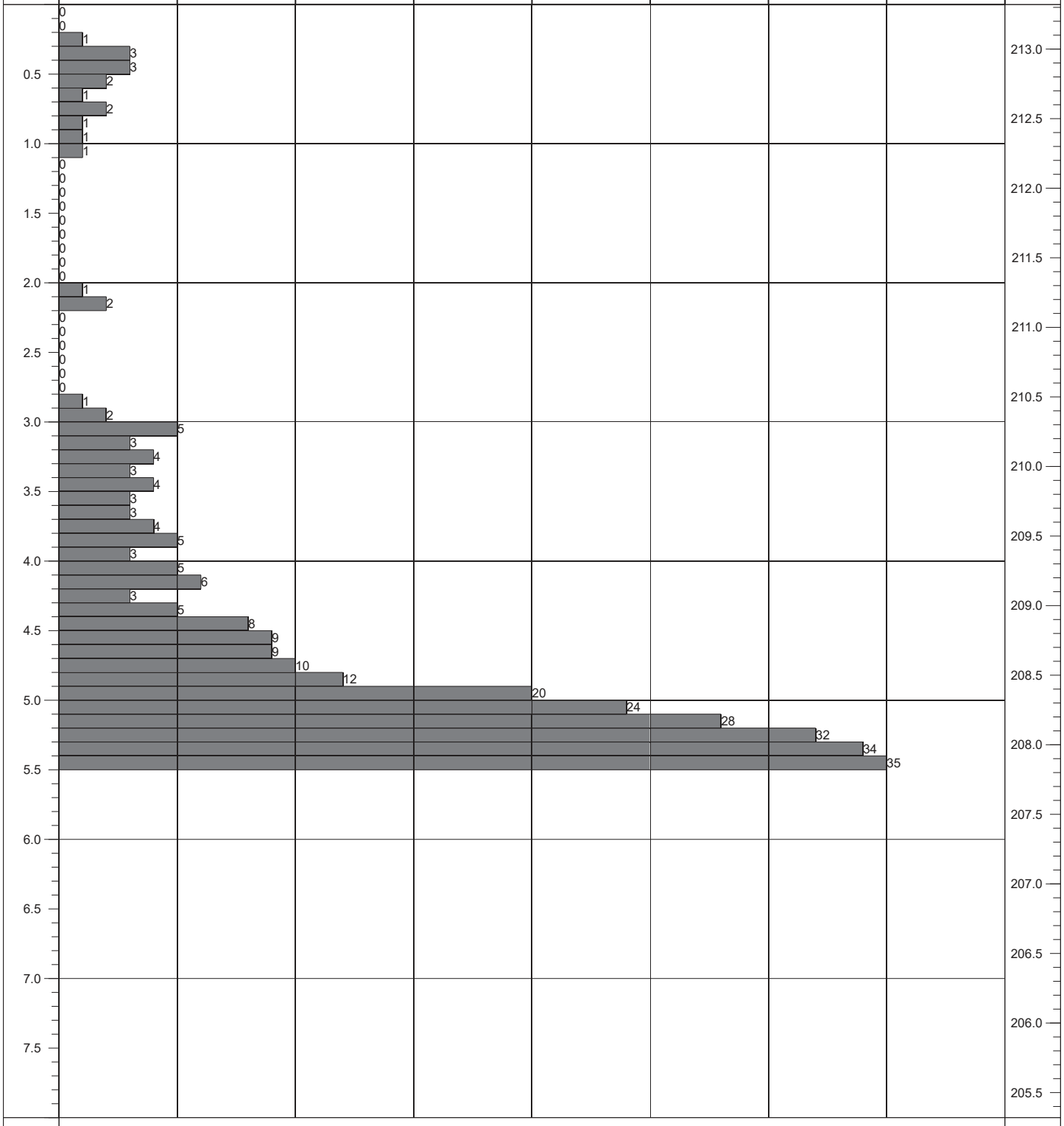
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP158
Contract:	Blessington - Phase 3	Easting:	697805.525	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715348.513	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.82	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



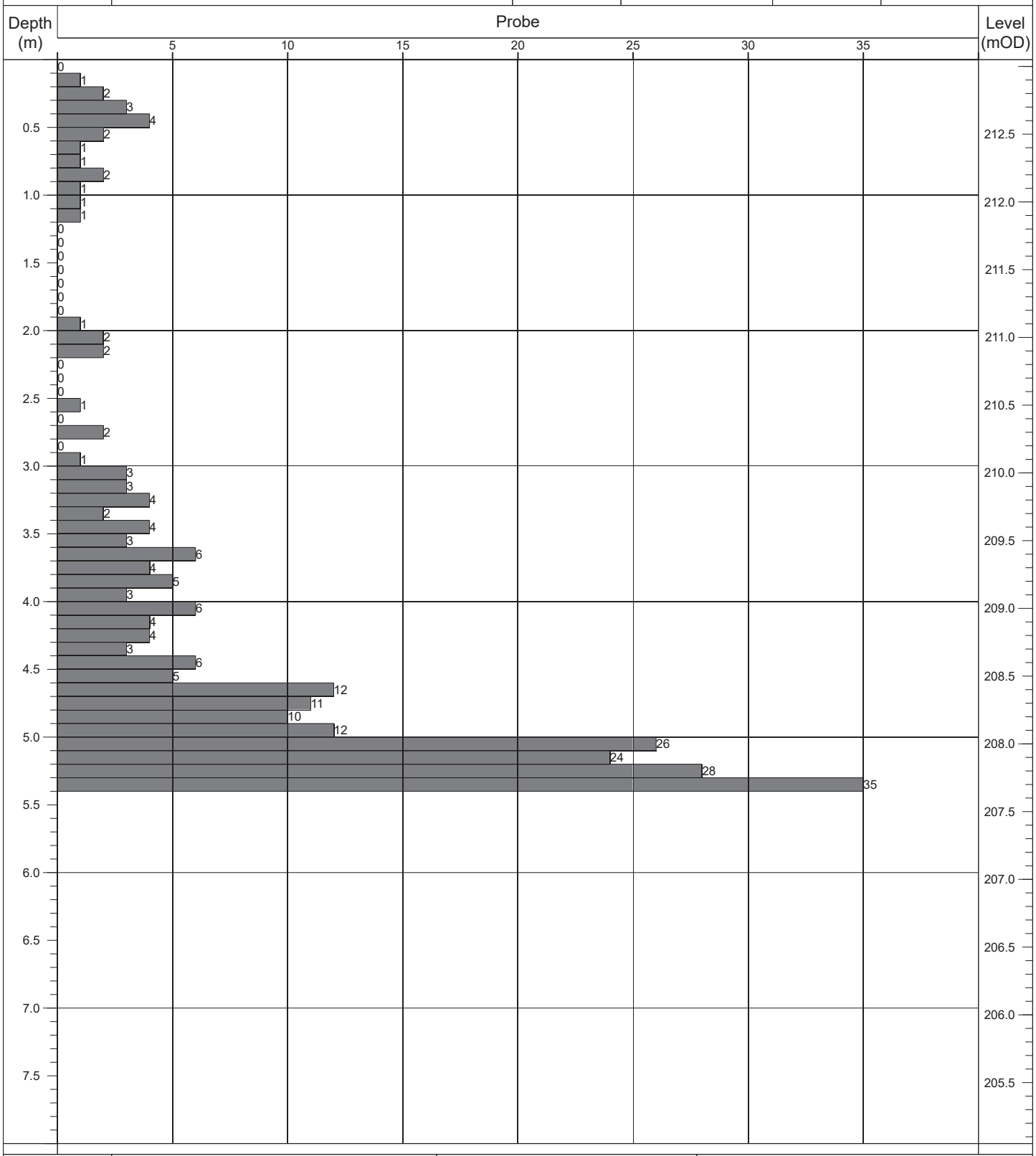
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP159
Contract:	Blessington - Phase 3	Easting:	697701.755	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715299.955	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.32	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



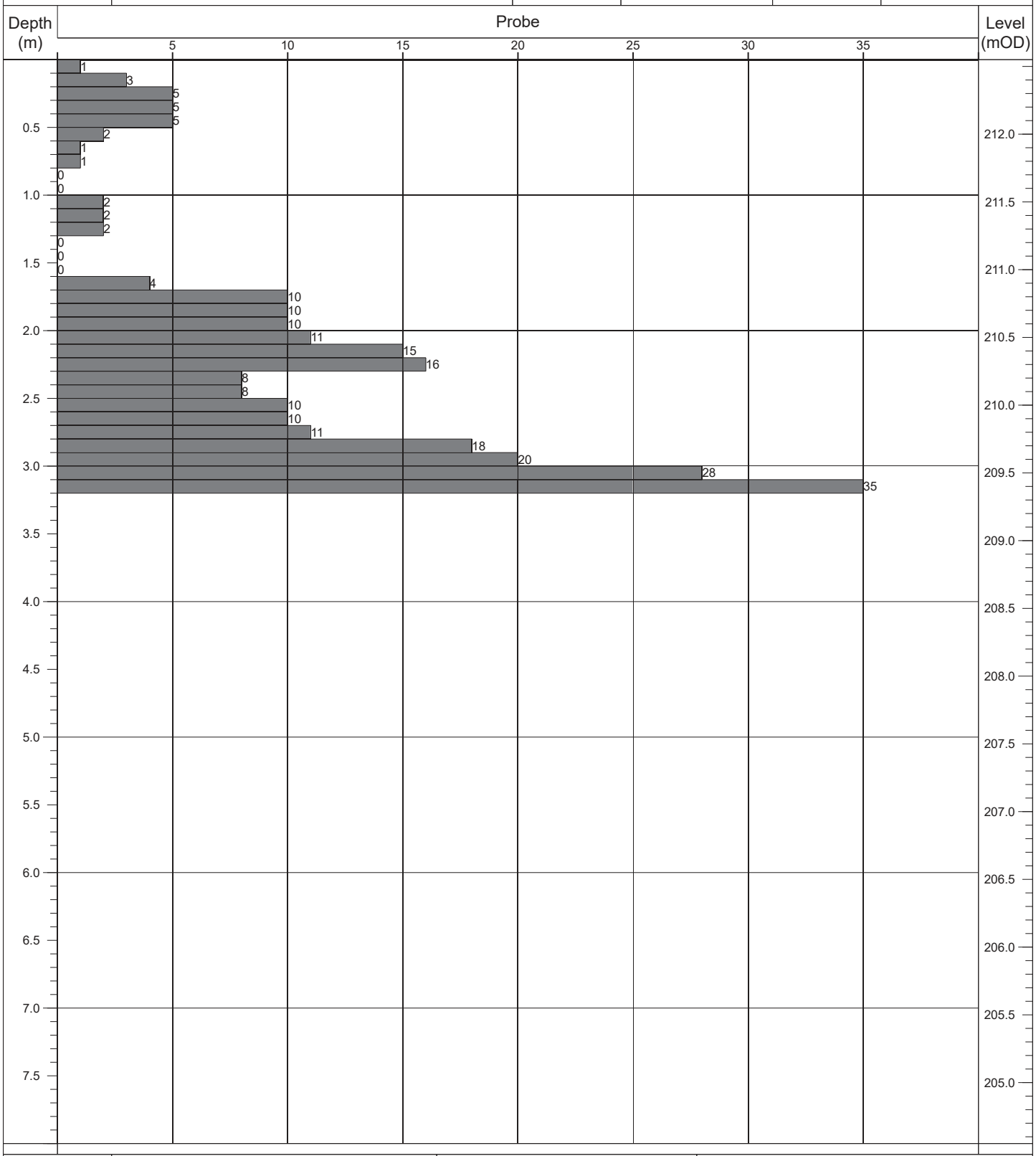
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP160
Contract:	Blessington - Phase 3	Easting:	697708.440	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715293.288	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.05	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



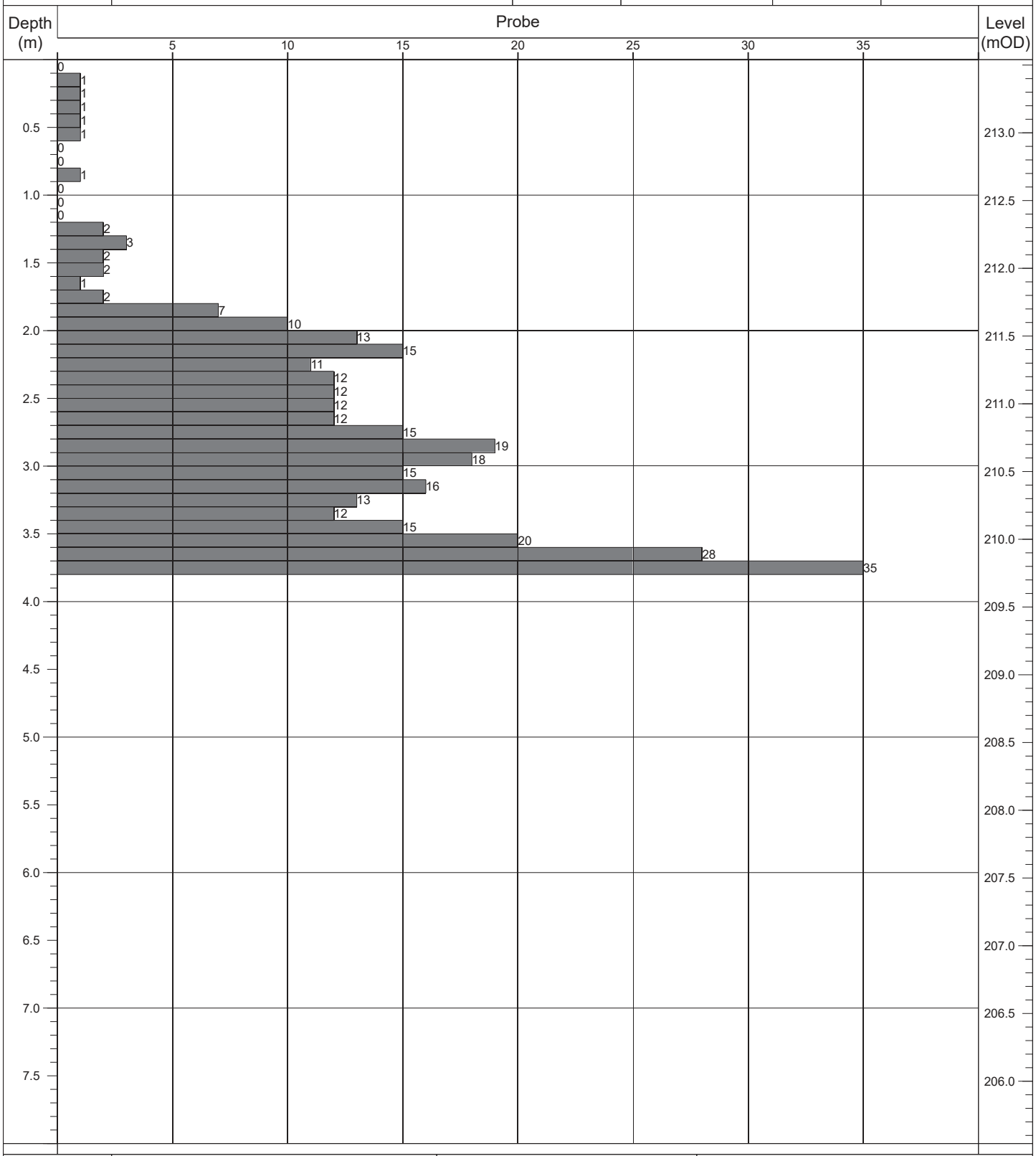
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP161
Contract:	Blessington - Phase 3	Easting:	697835.497	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715320.023	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.55	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



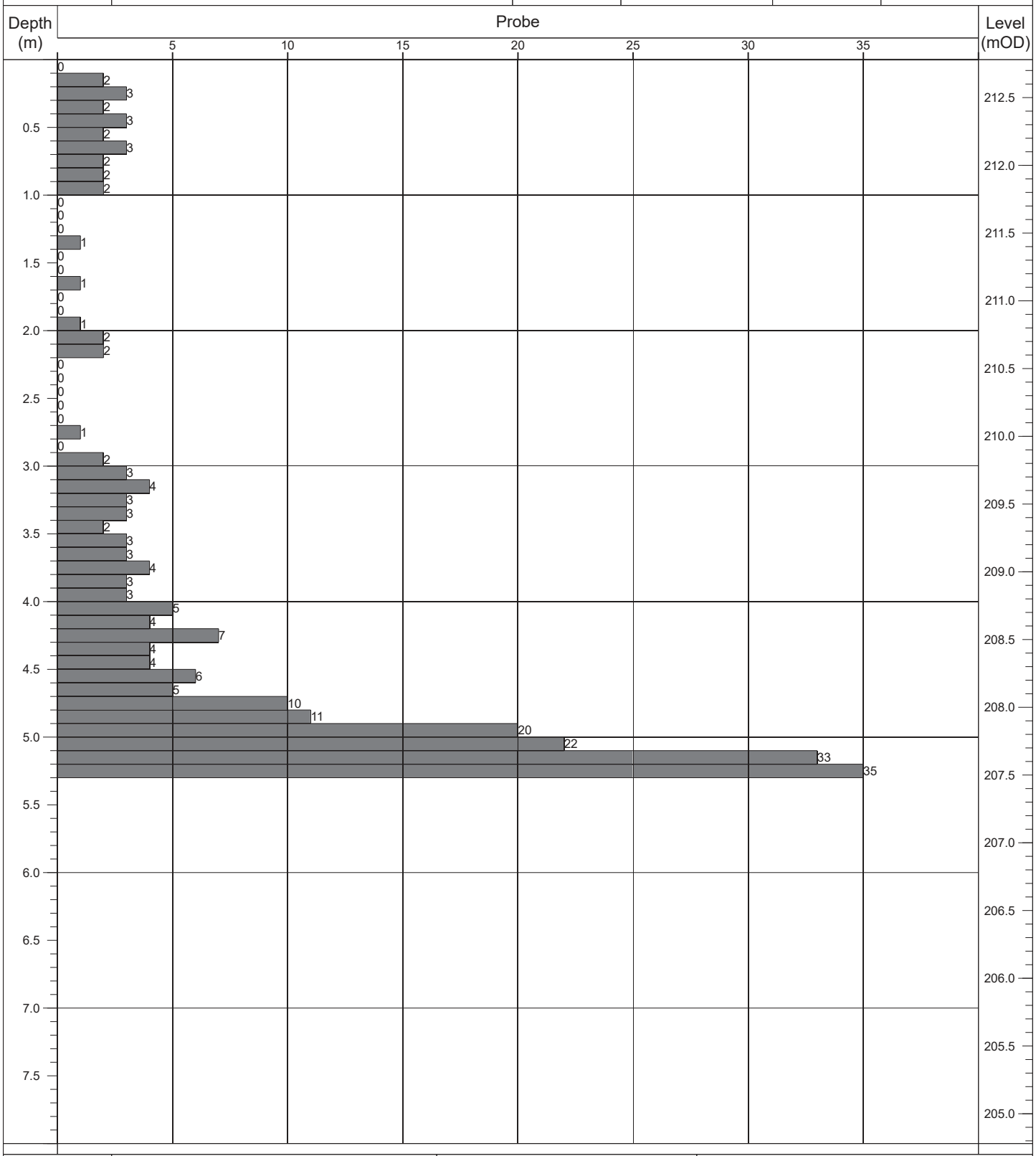
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP162
Contract:	Blessington - Phase 3	Easting:	697698.642	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715303.741	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.54	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



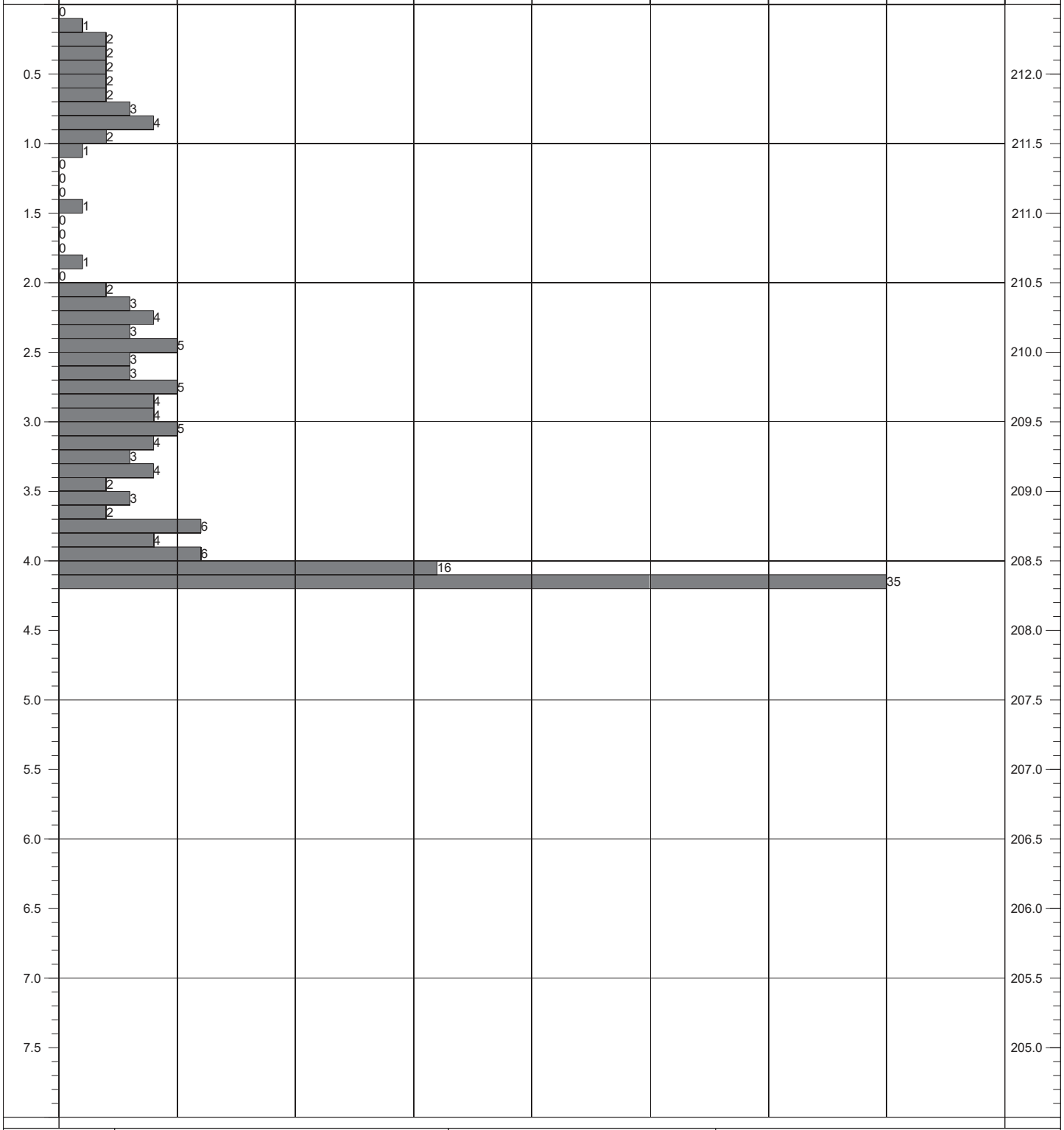
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP163
Contract:	Blessington - Phase 3	Easting:	697720.786	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715281.733	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.78	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



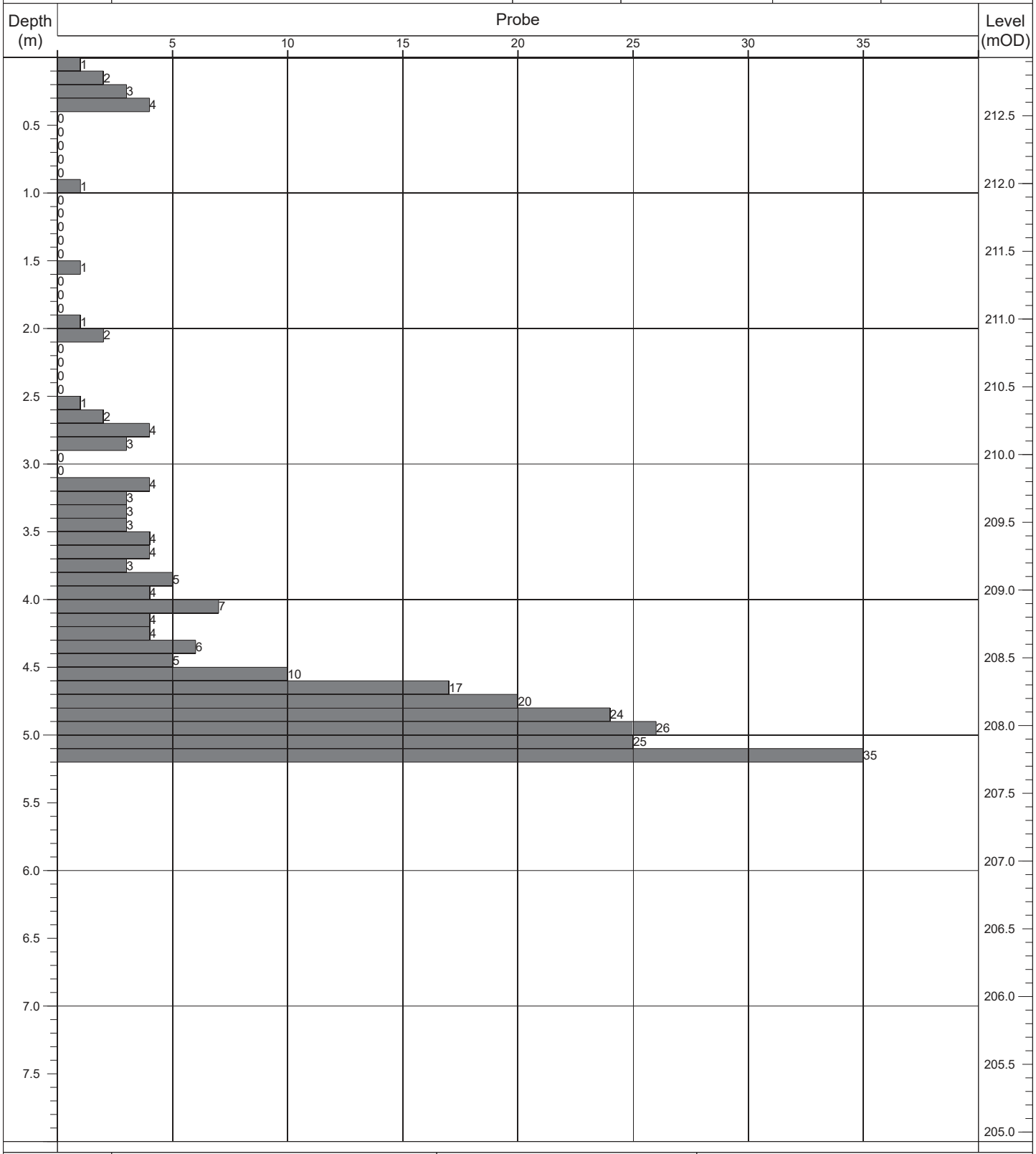
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP164
Contract:	Blessington - Phase 3	Easting:	697727.176	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715275.221	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.50	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



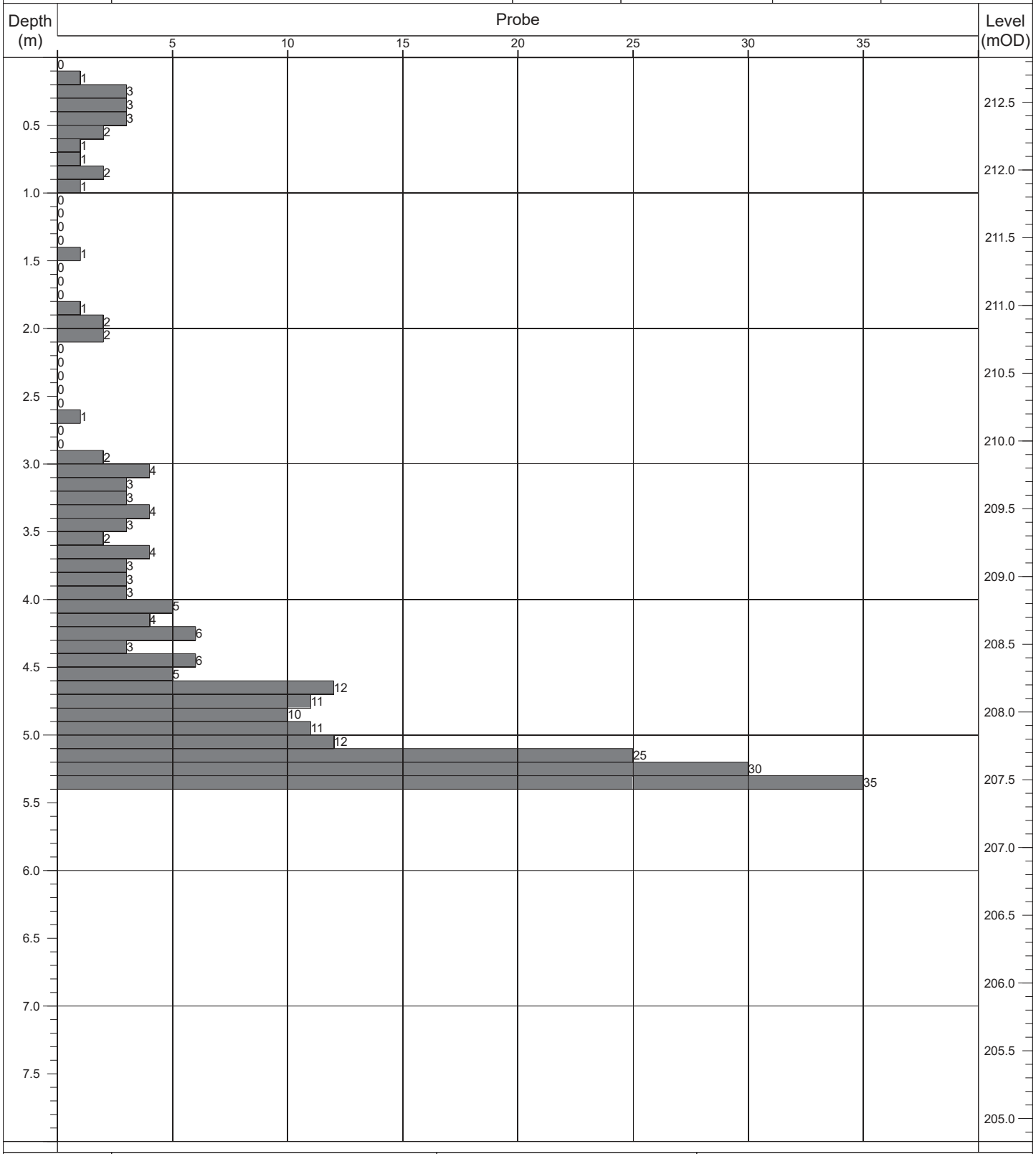
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP165
Contract:	Blessington - Phase 3	Easting:	697712.353	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715289.386	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.93	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



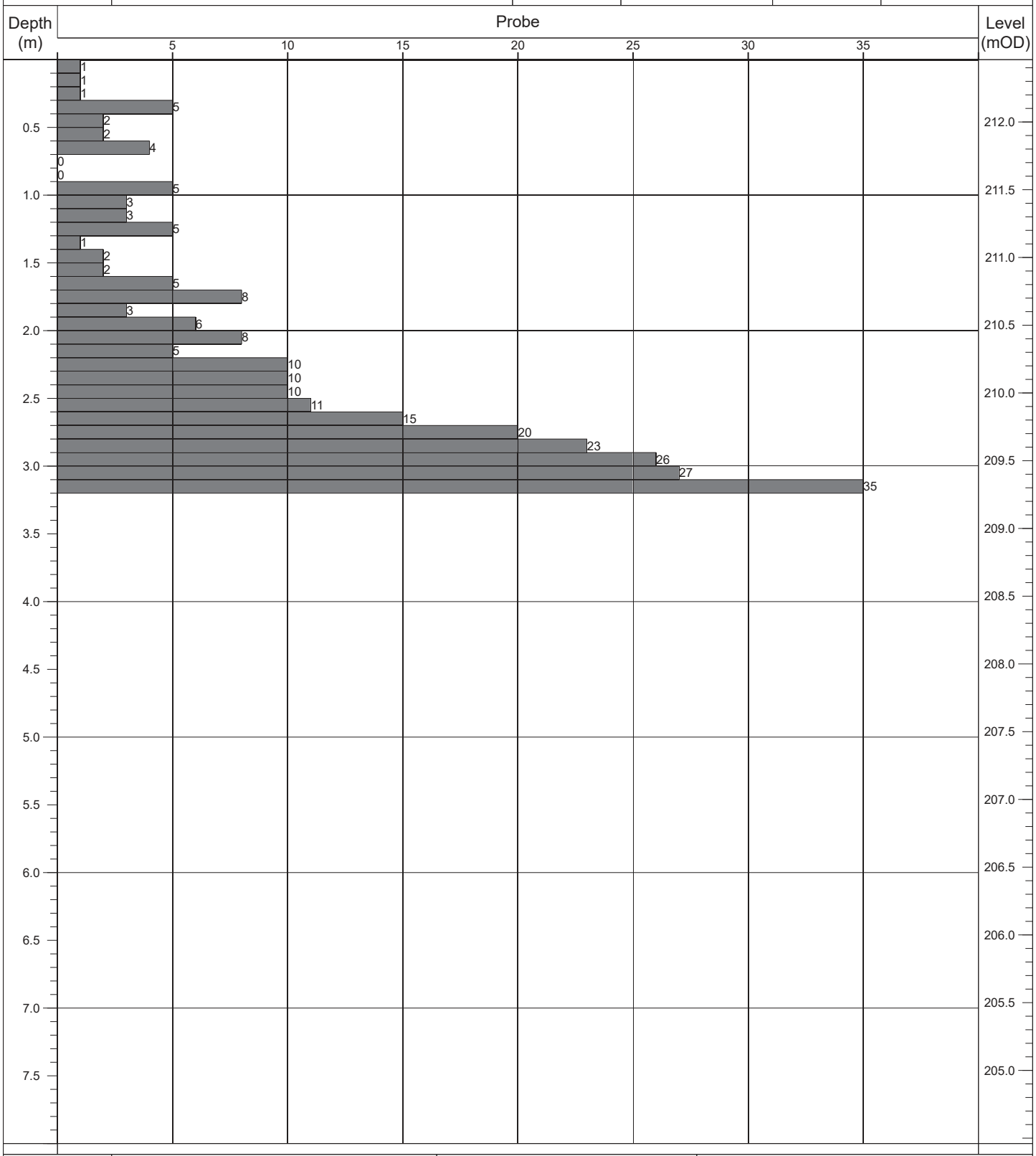
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP166
Contract:	Blessington - Phase 3	Easting:	697716.358	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715285.407	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.83	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



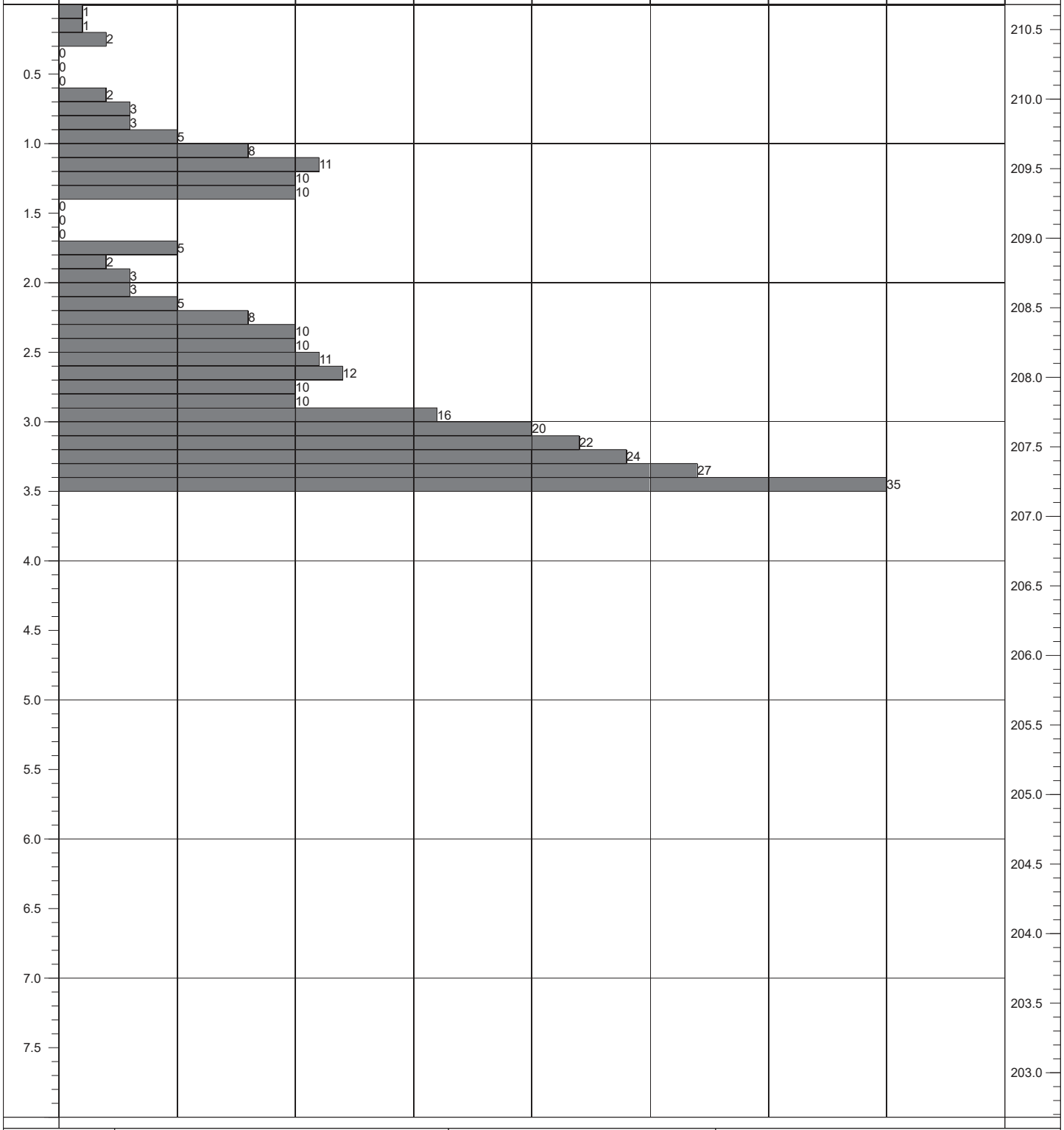
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP167
Contract:	Blessington - Phase 3	Easting:	697831.575	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715316.159	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.46	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



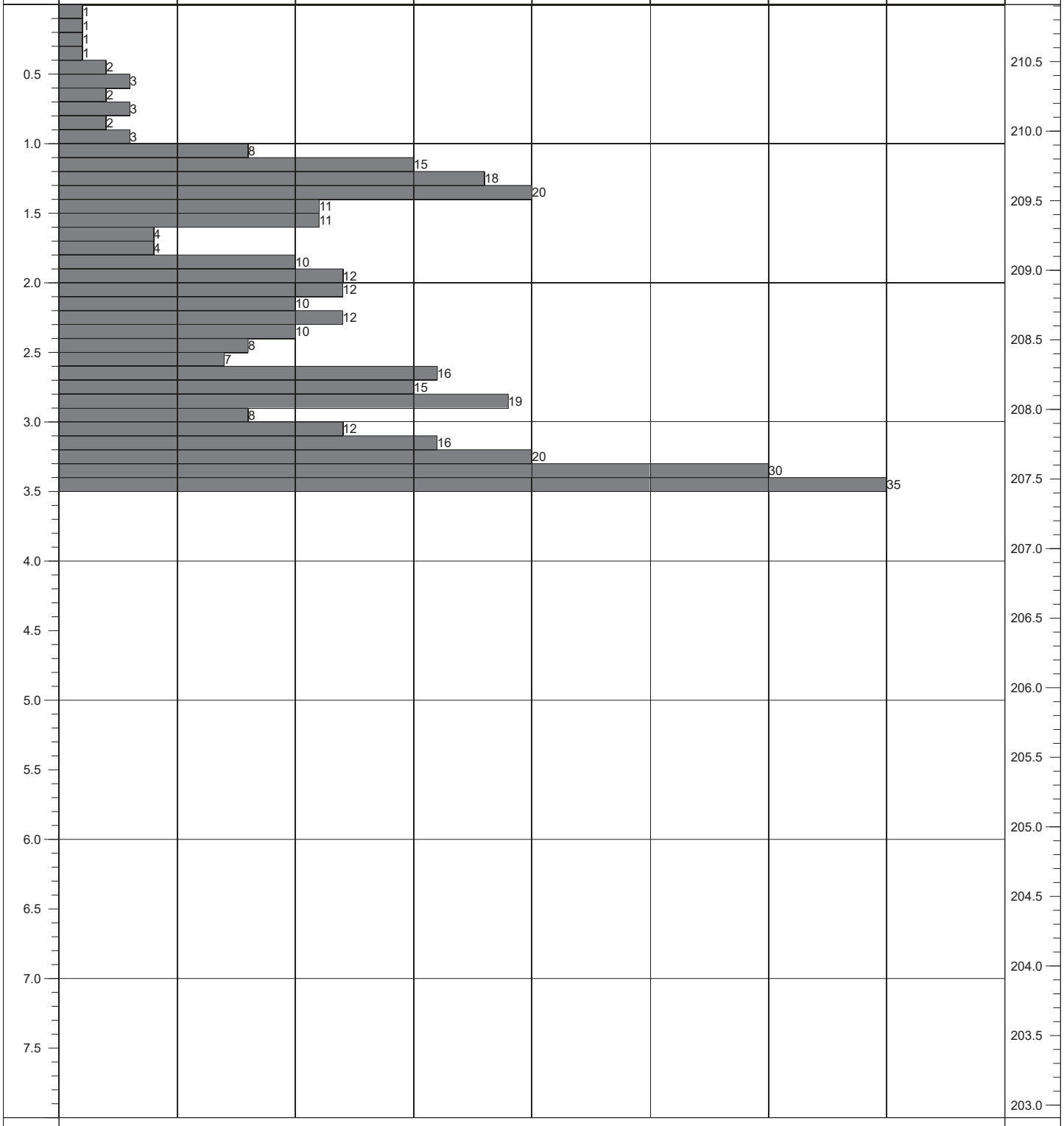
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No:	Dynamic Probe Log				Probe No:
6100					**DP168**
Contract:	Blessington - Phase 3	Easting:	697802.933	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715287.265	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	210.68	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



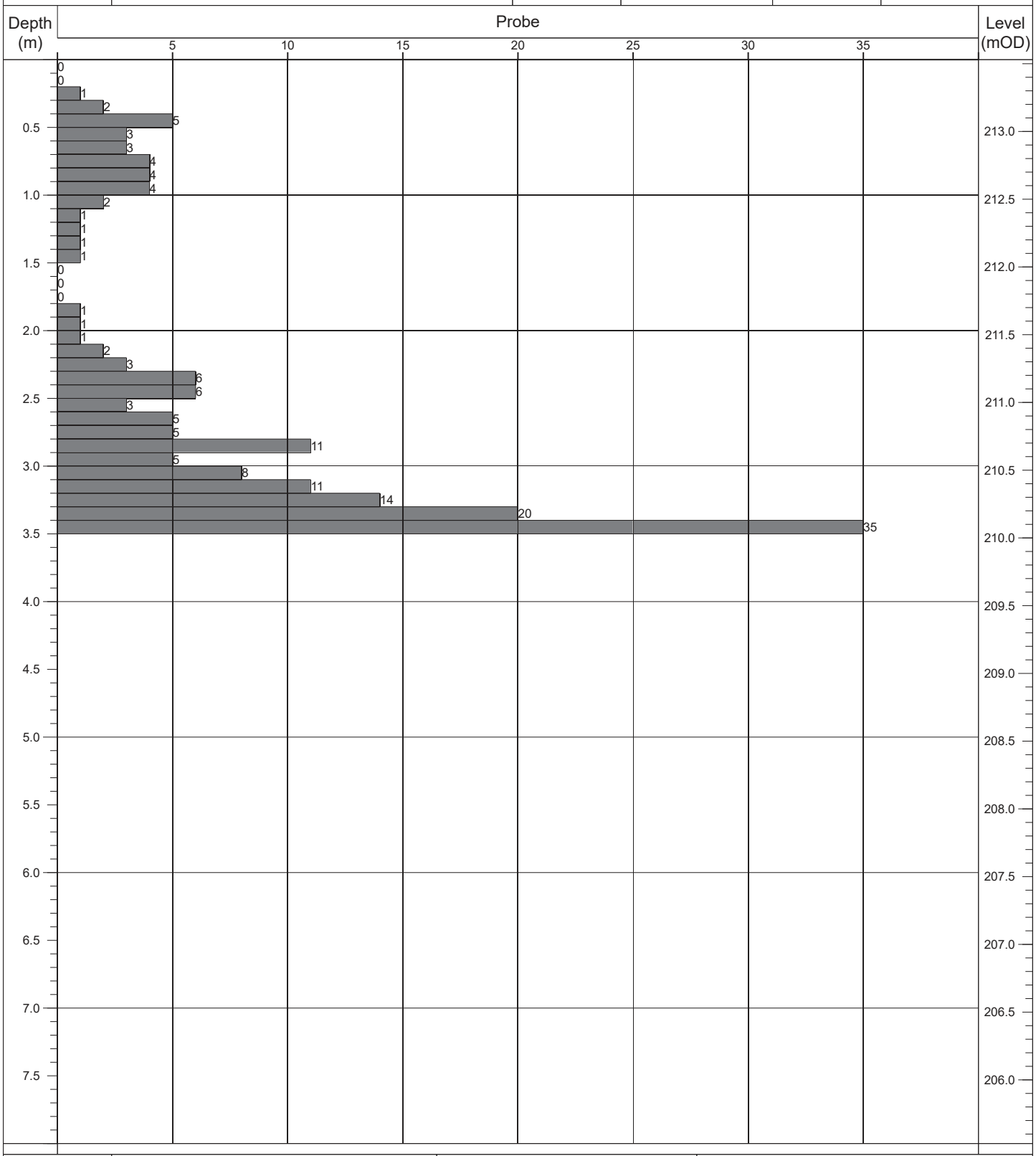
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP169
Contract:	Blessington - Phase 3	Easting:	697806.677	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715290.757	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.91	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



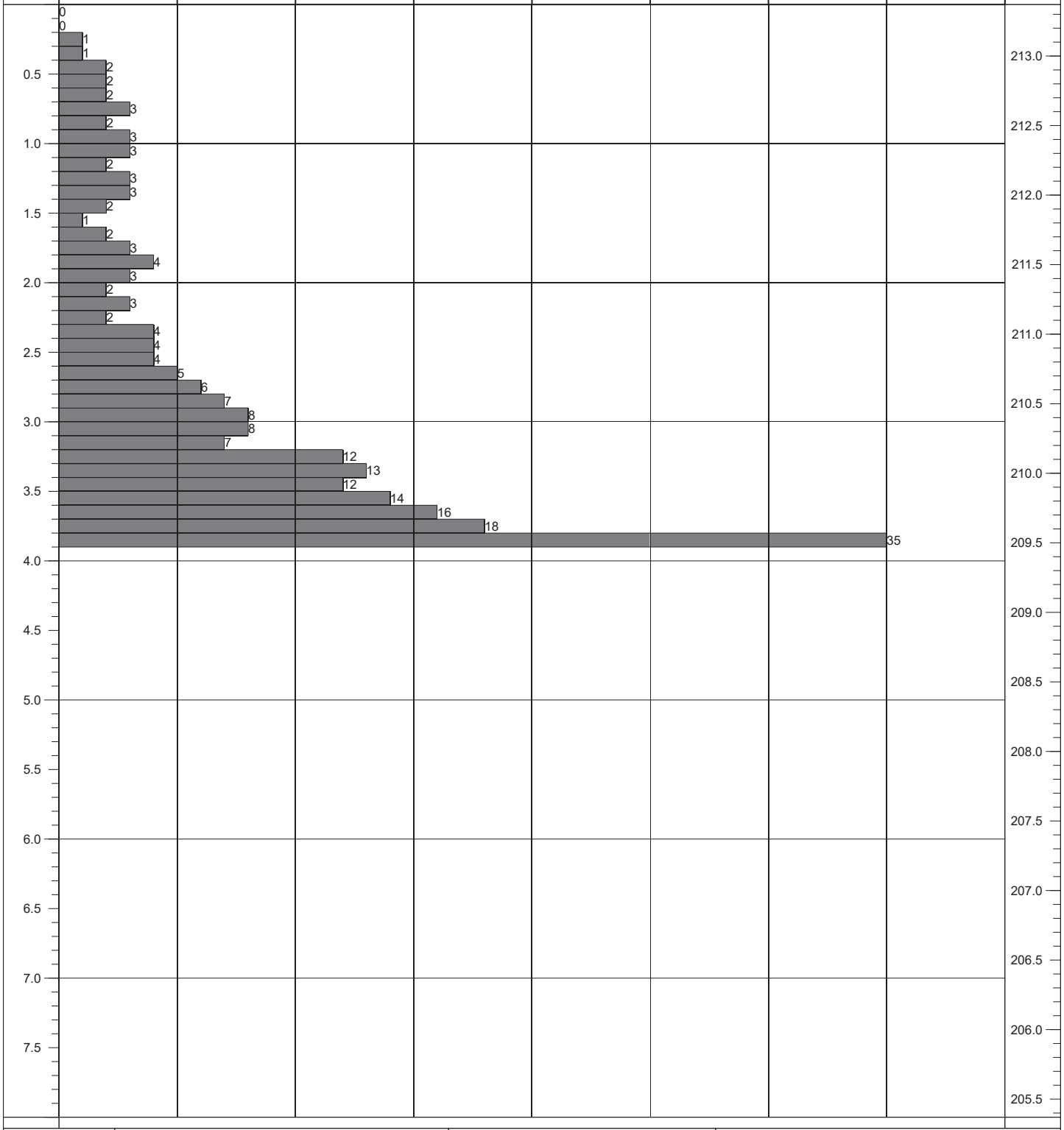
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP170**
Contract:	Blessington - Phase 3	Easting:	697811.296	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715342.344	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.53	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



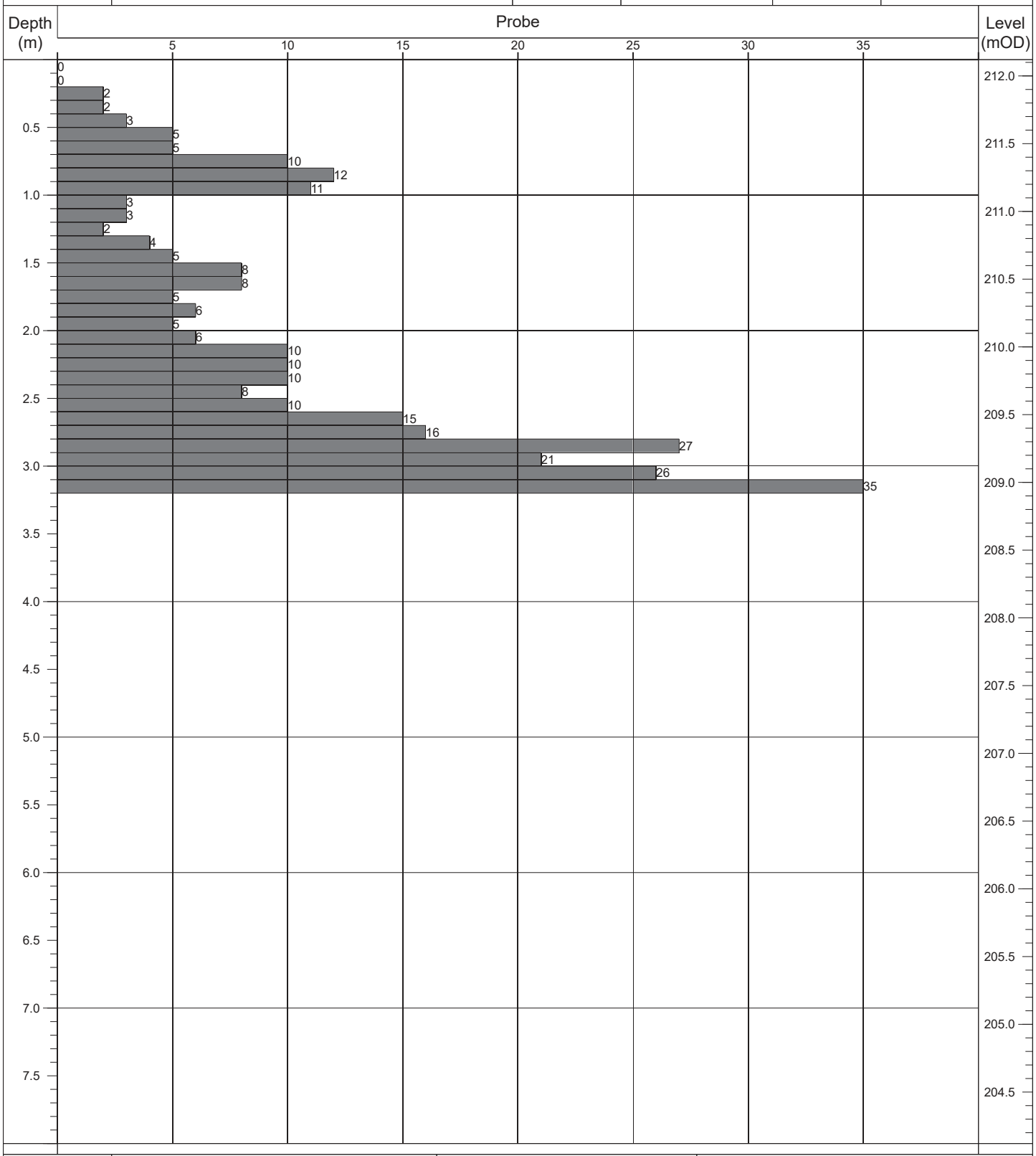
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP171**
Contract:	Blessington - Phase 3	Easting:	697815.303	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715338.760	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.37	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



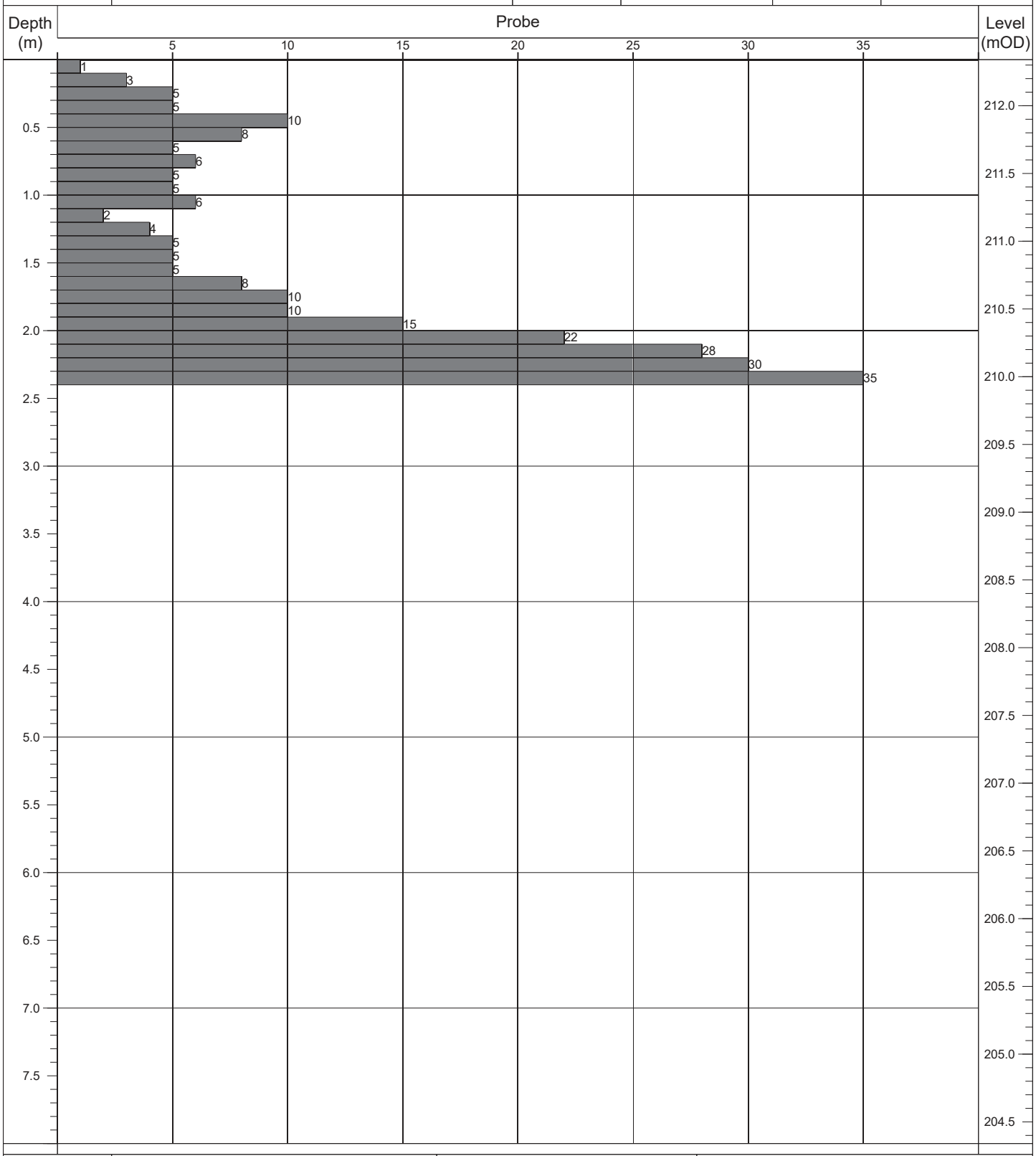
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP172**
Contract:	Blessington - Phase 3	Easting:	697822.355	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715306.243	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.12	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



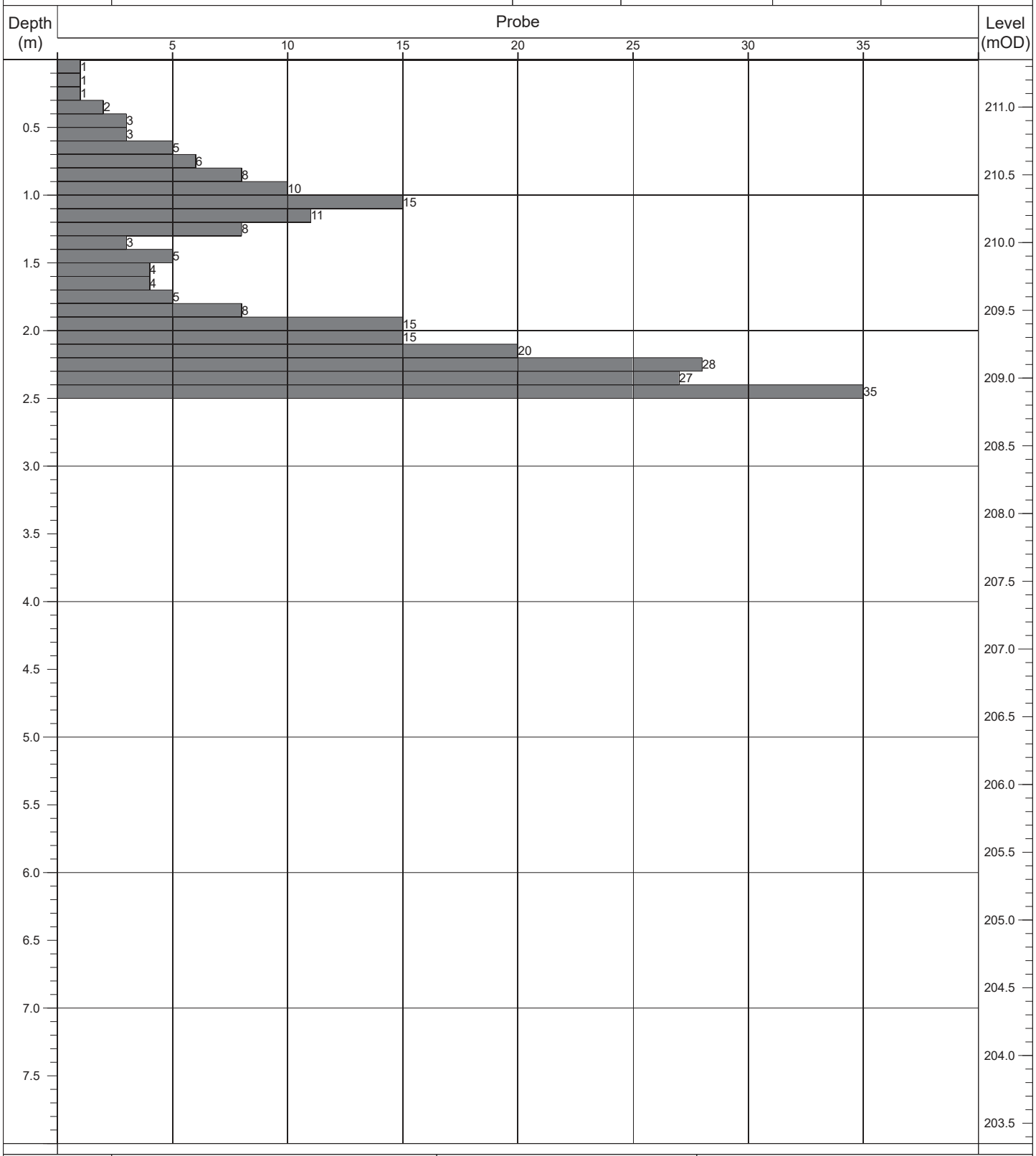
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP173
Contract:	Blessington - Phase 3	Easting:	697826.280	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715310.252	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.34	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



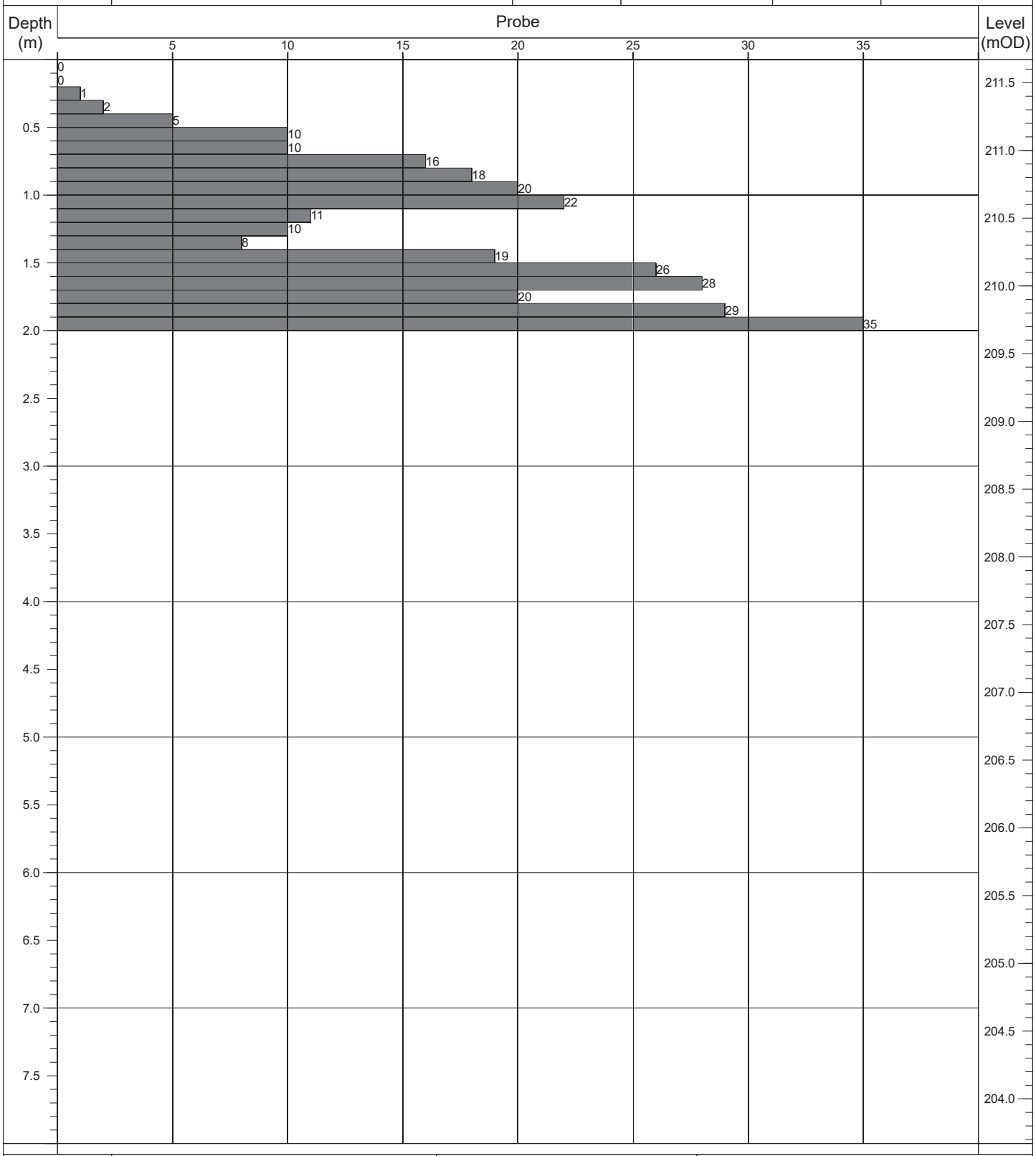
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP174
Contract:	Blessington - Phase 3	Easting:	697812.514	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715296.314	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.35	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



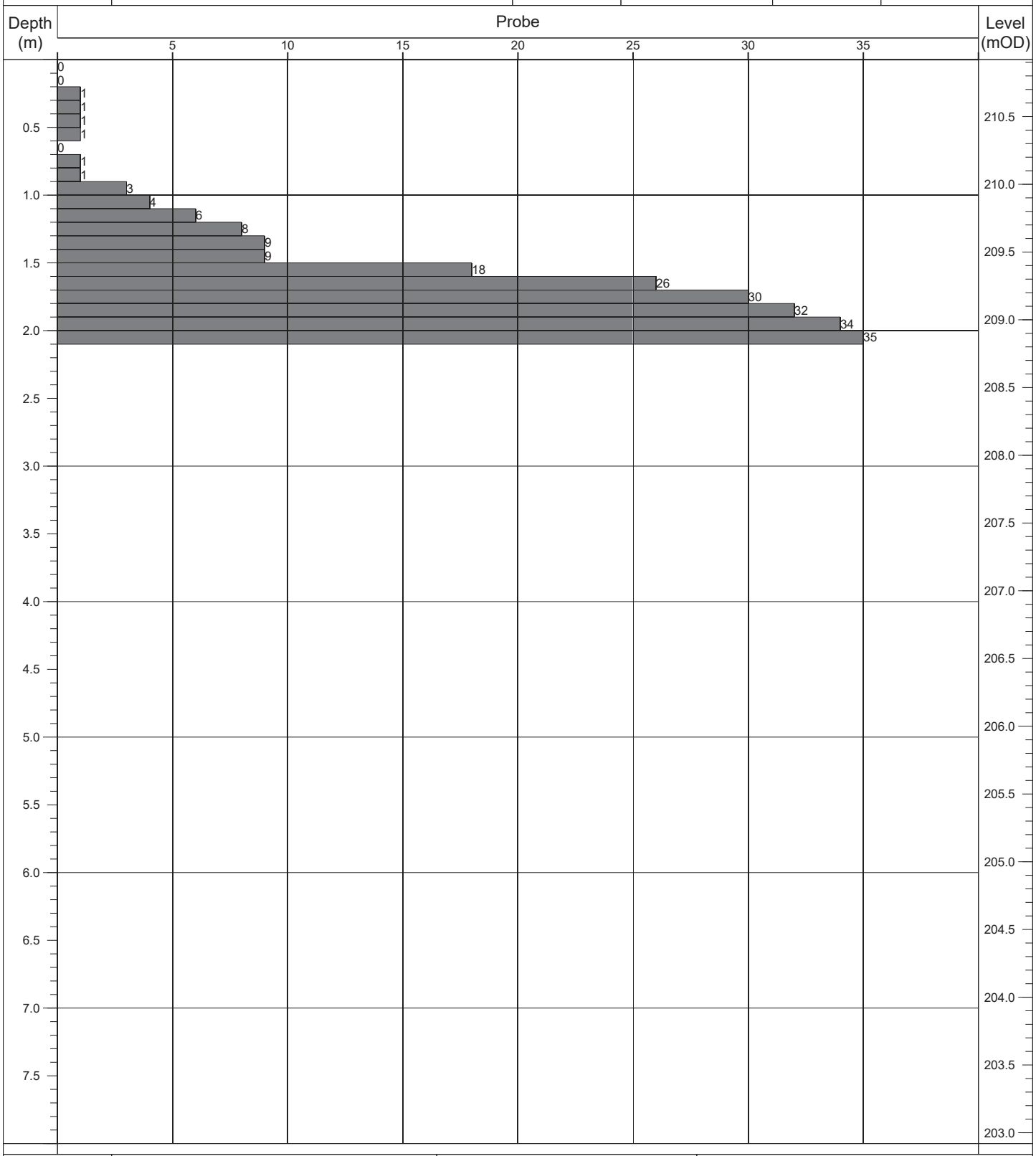
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP175
Contract:	Blessington - Phase 3	Easting:	697816.443	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715300.047	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.67	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



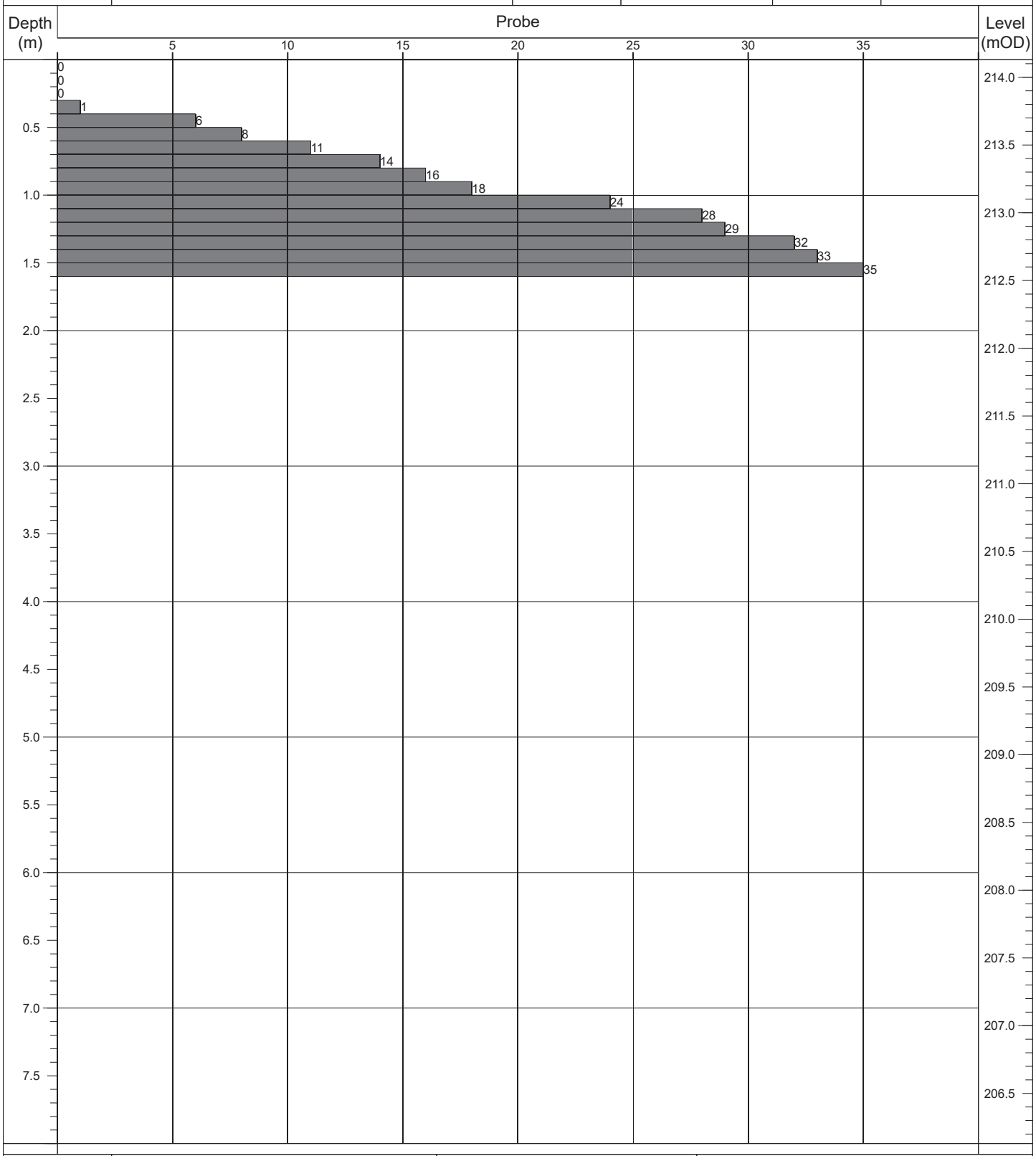
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP176
Contract:	Blessington - Phase 3	Easting:	697633.210	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715278.108	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.92	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



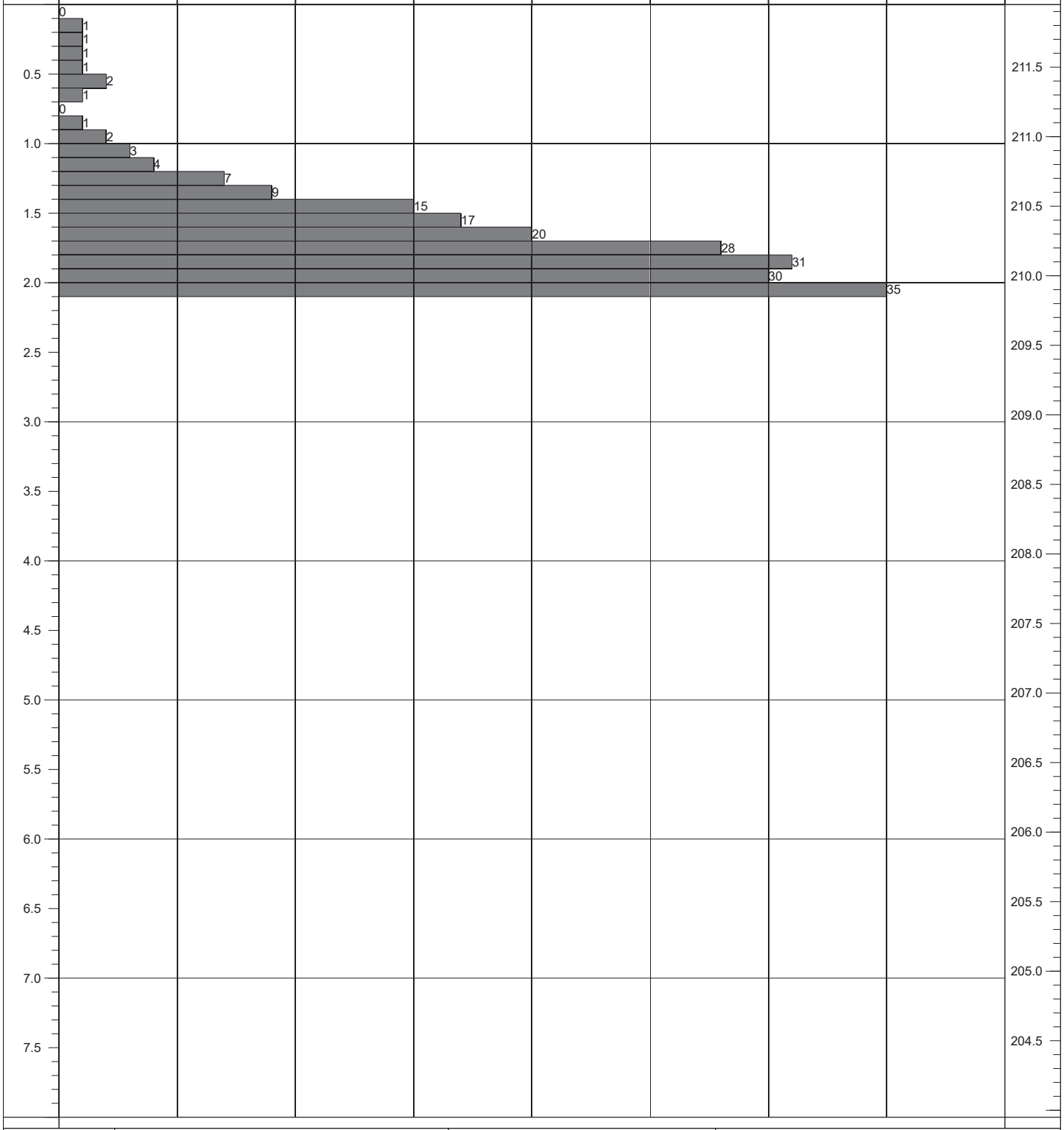
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP177
Contract:	Blessington - Phase 3	Easting:	697650.870	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715297.215	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.13	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



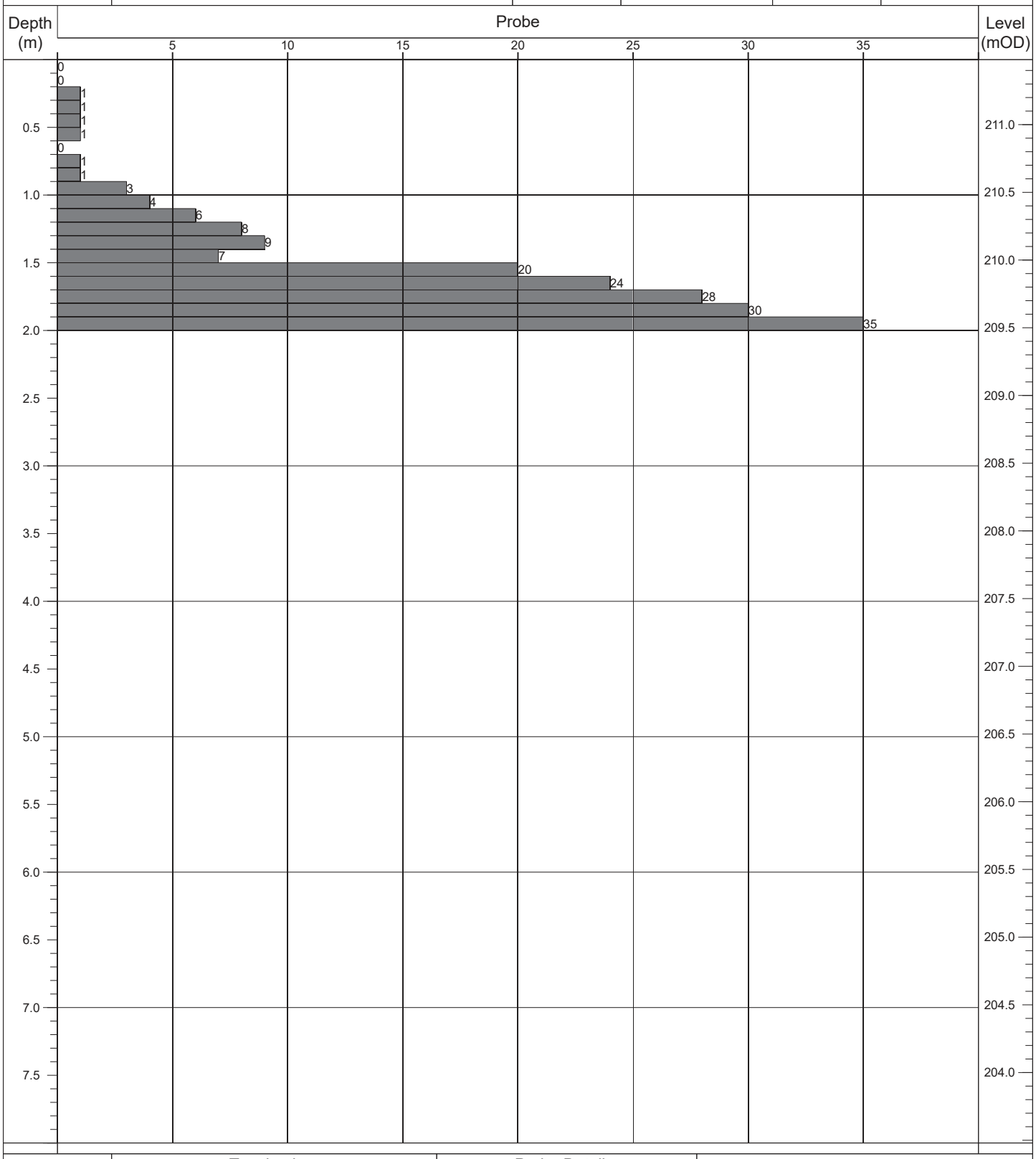
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP178**
Contract:	Blessington - Phase 3	Easting:	697625.416	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715270.274	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.95	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



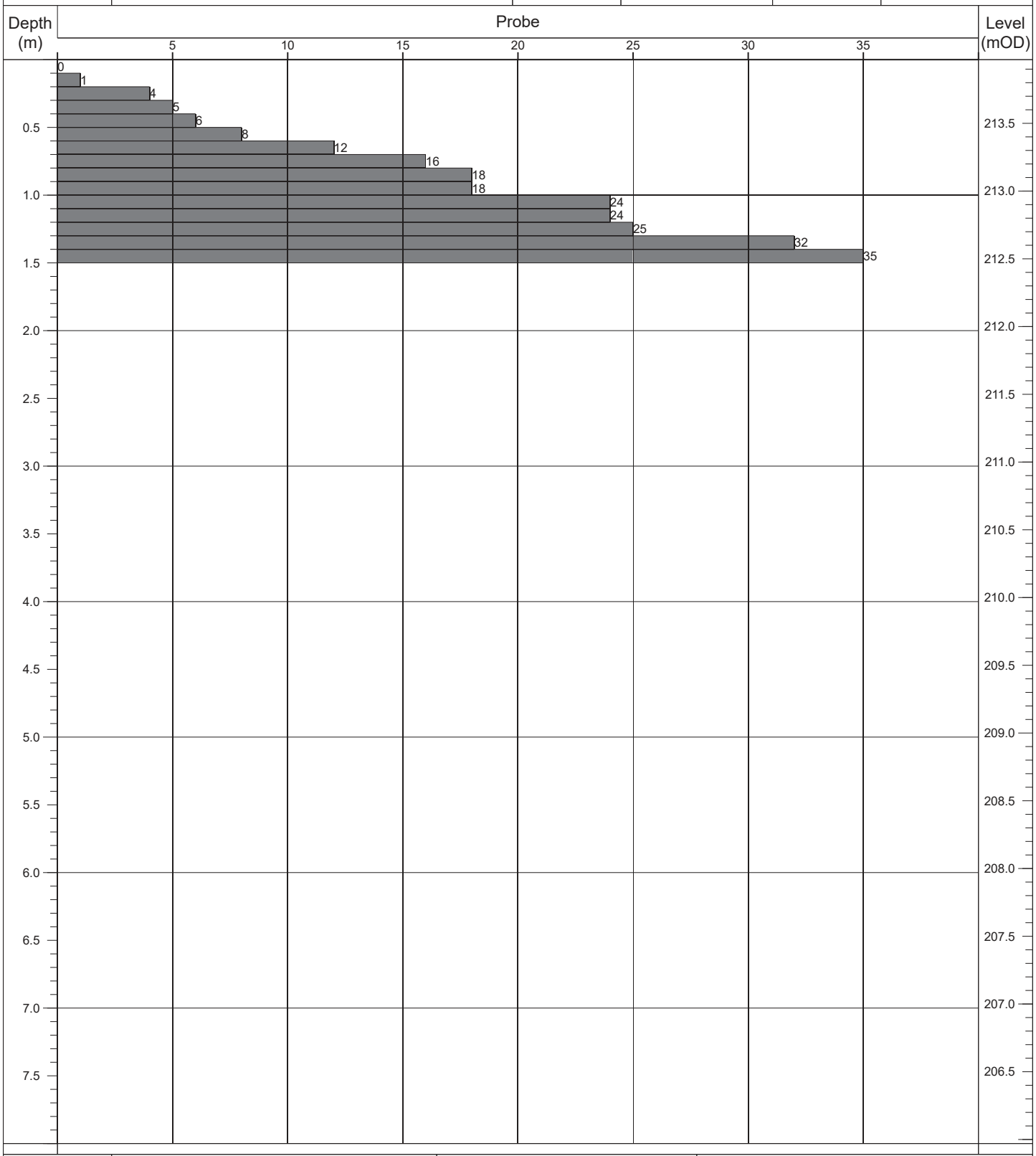
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP179
Contract:	Blessington - Phase 3	Easting:	697629.310	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715274.188	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.48	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



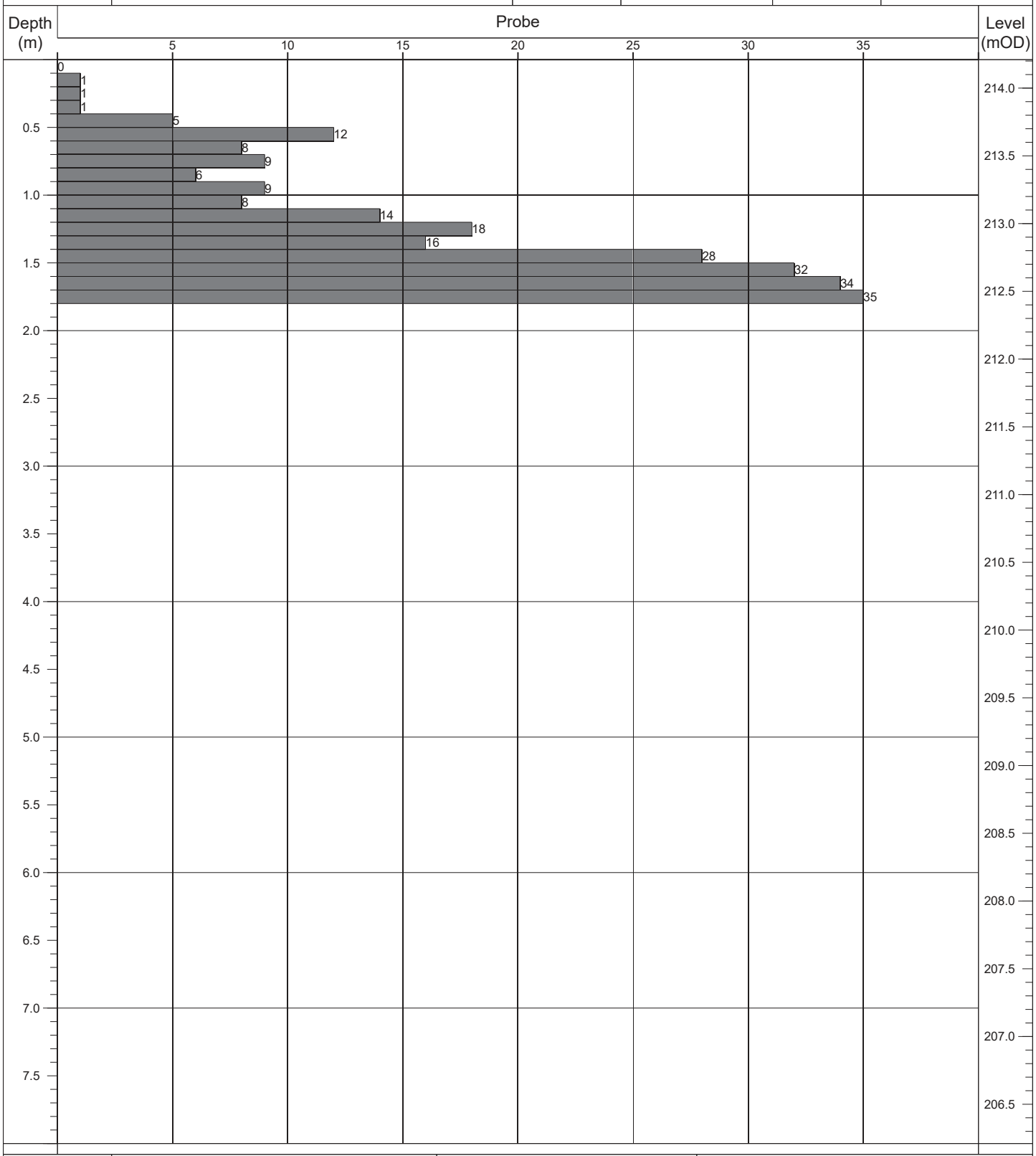
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP180
Contract:	Blessington - Phase 3	Easting:	697662.963	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715307.897	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.97	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



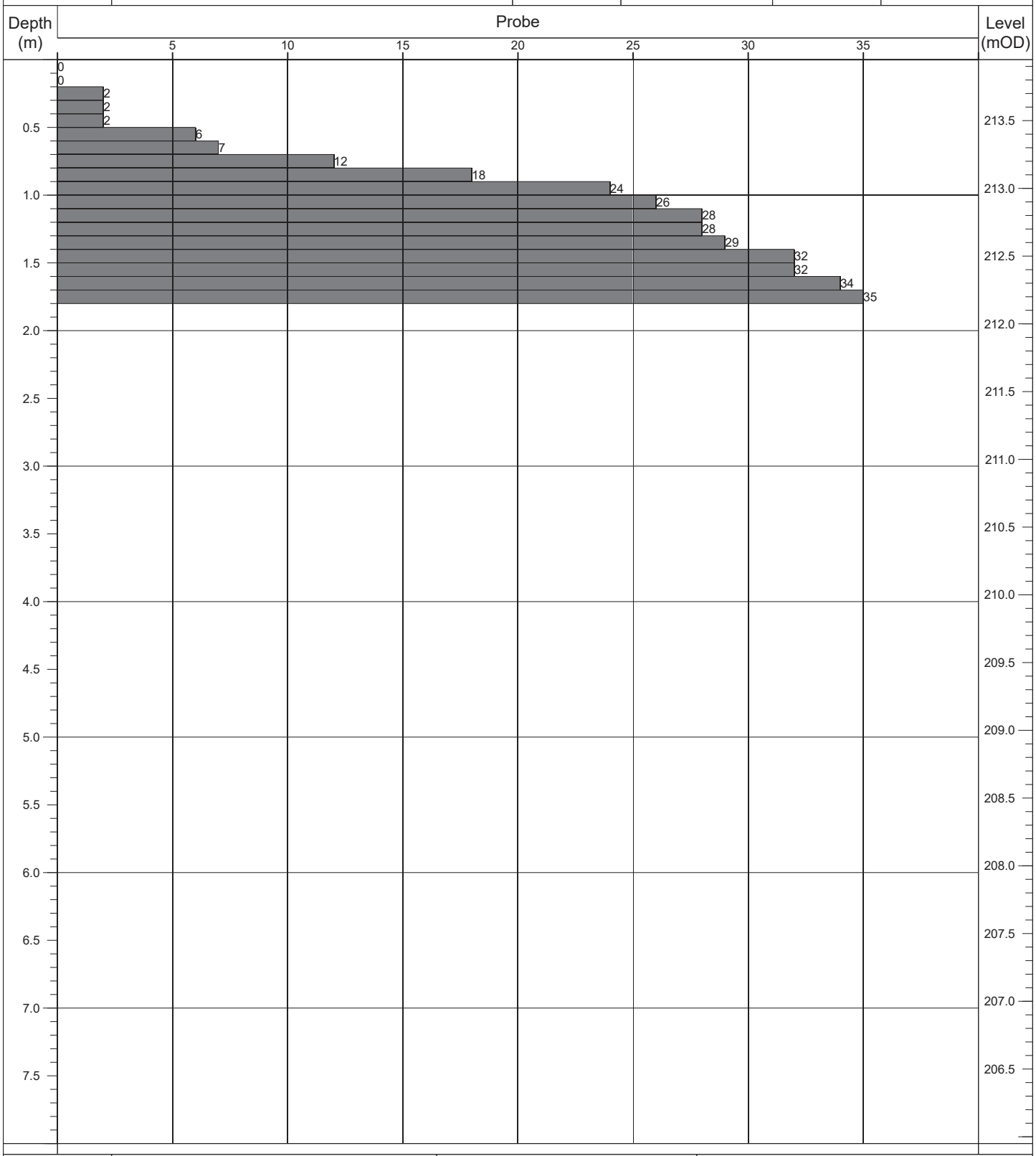
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP181
Contract:	Blessington - Phase 3	Easting:	697668.856	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715313.556	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.21	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



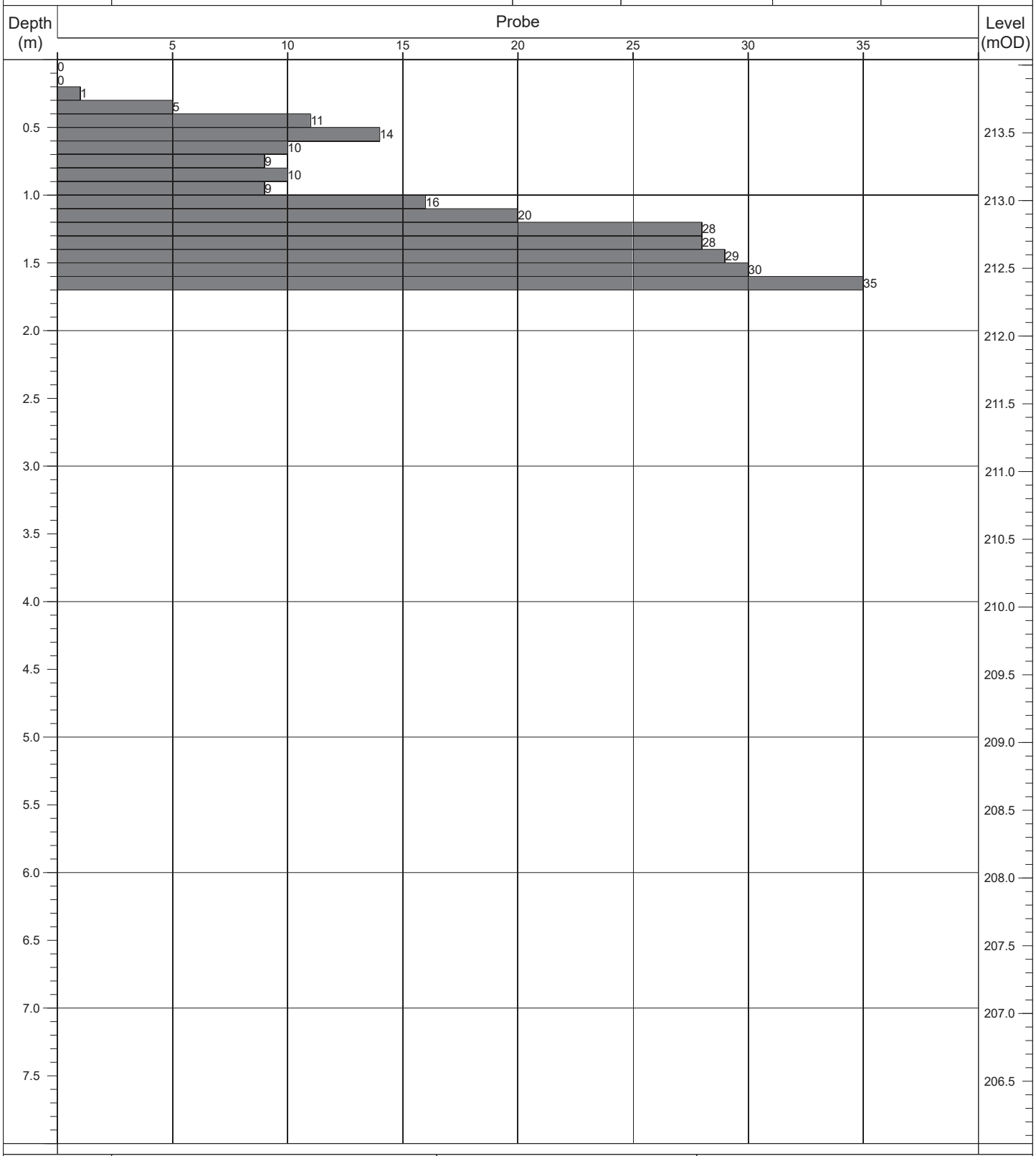
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP182
Contract:	Blessington - Phase 3	Easting:	697655.177	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715300.171	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.95	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



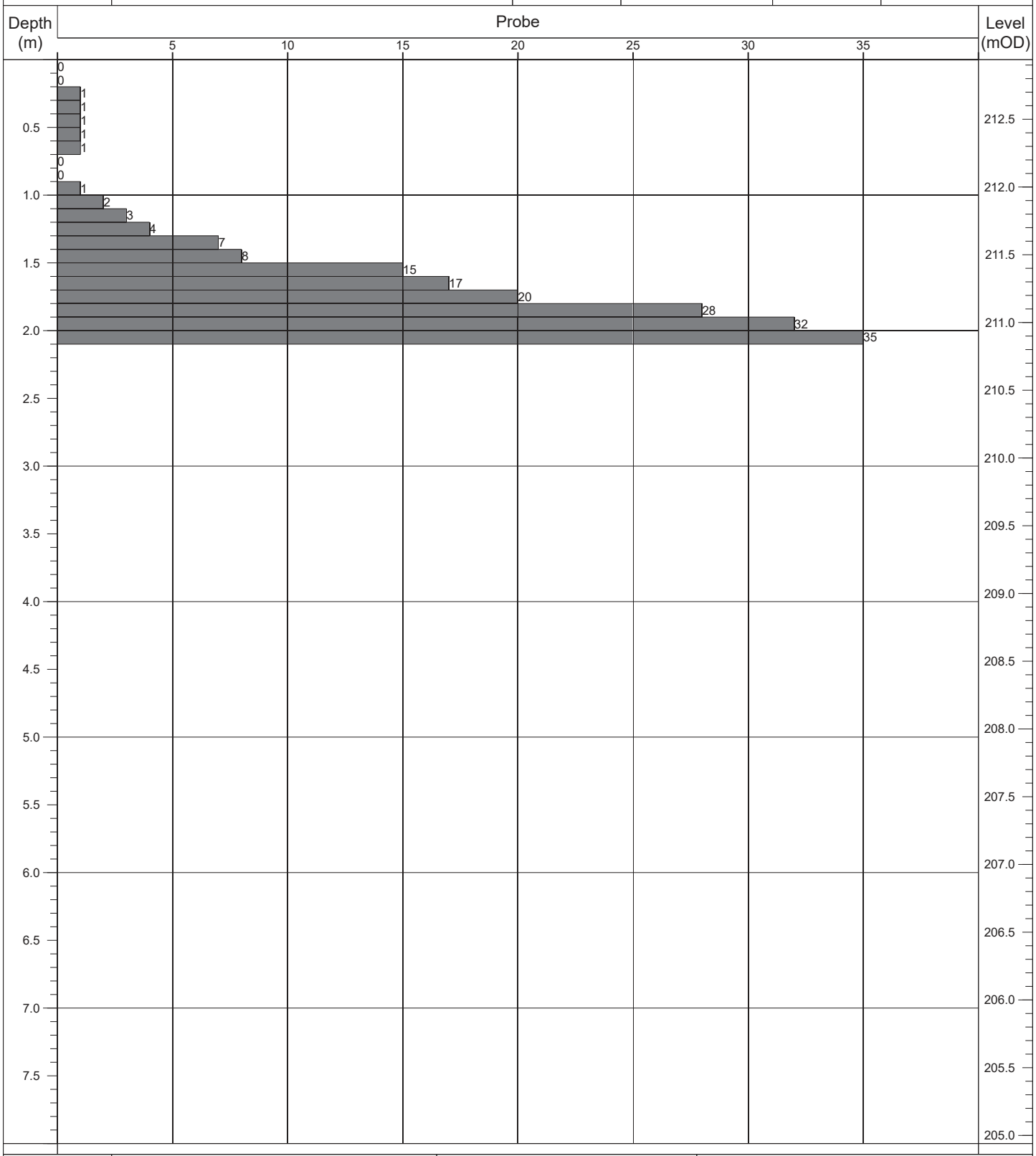
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP183
Contract:	Blessington - Phase 3	Easting:	697658.899	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715303.919	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.04	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



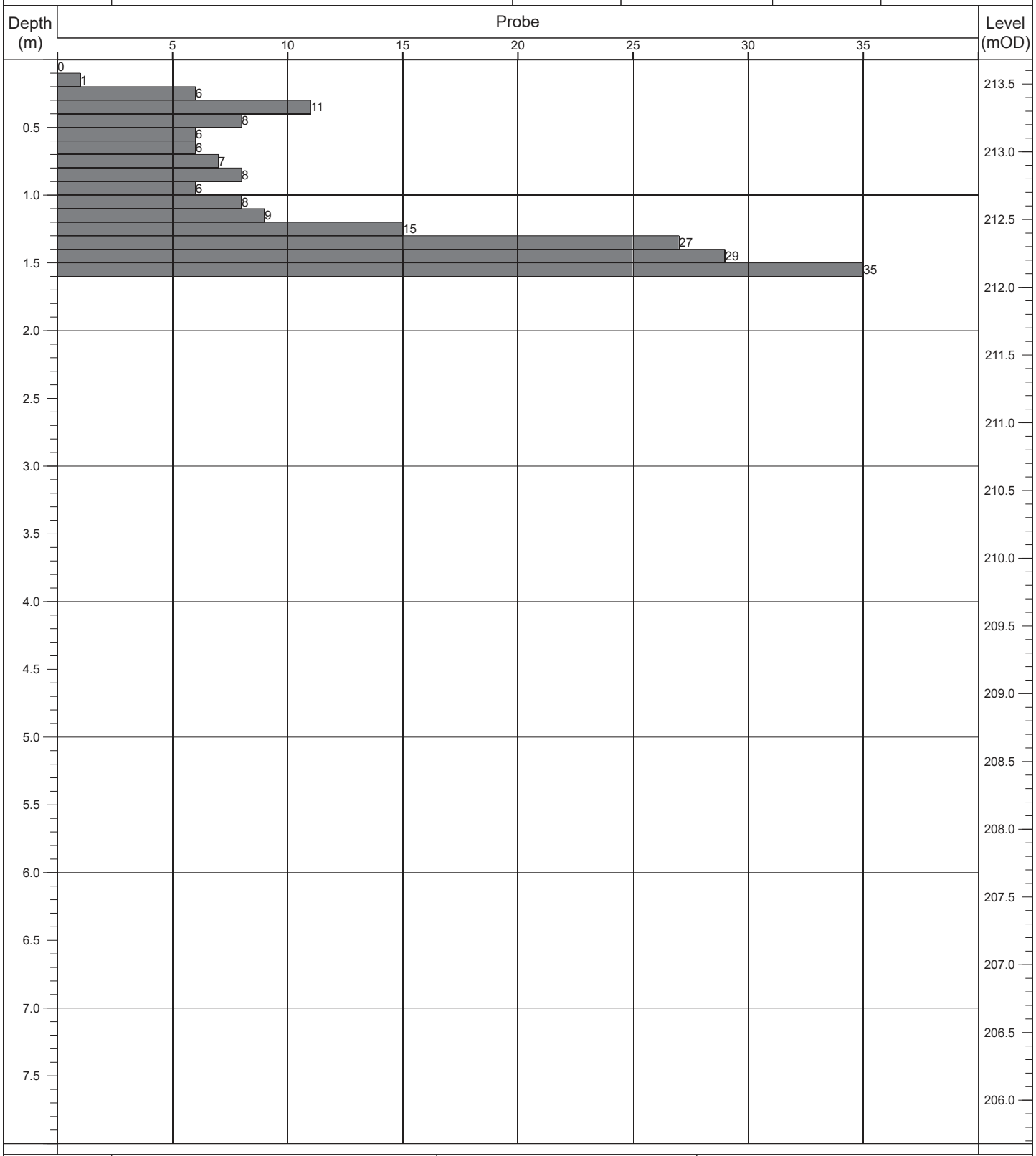
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP184
Contract:	Blessington - Phase 3	Easting:	697621.349	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715266.425	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.94	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



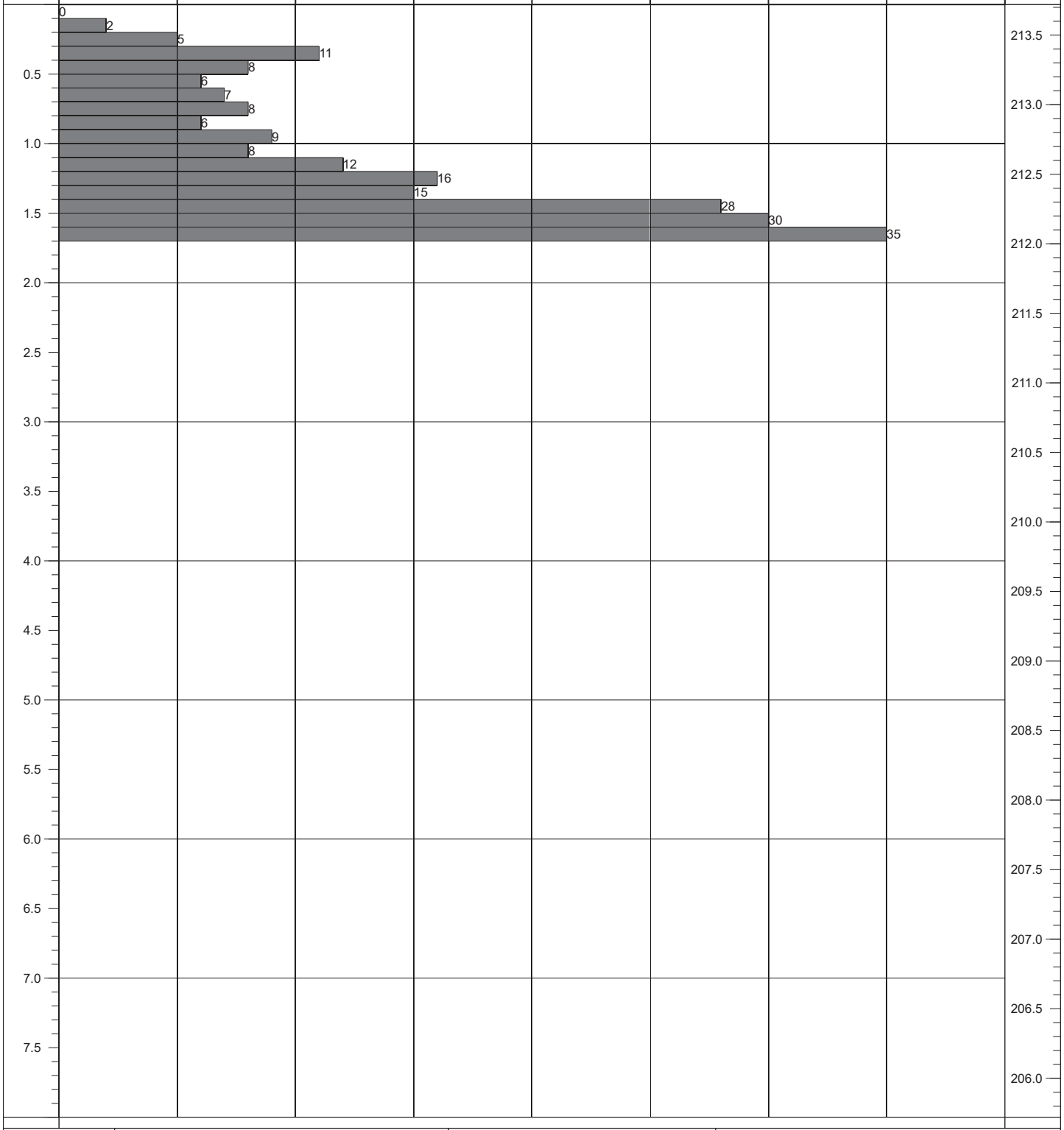
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP185
Contract:	Blessington - Phase 3	Easting:	697599.115	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715293.250	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.68	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



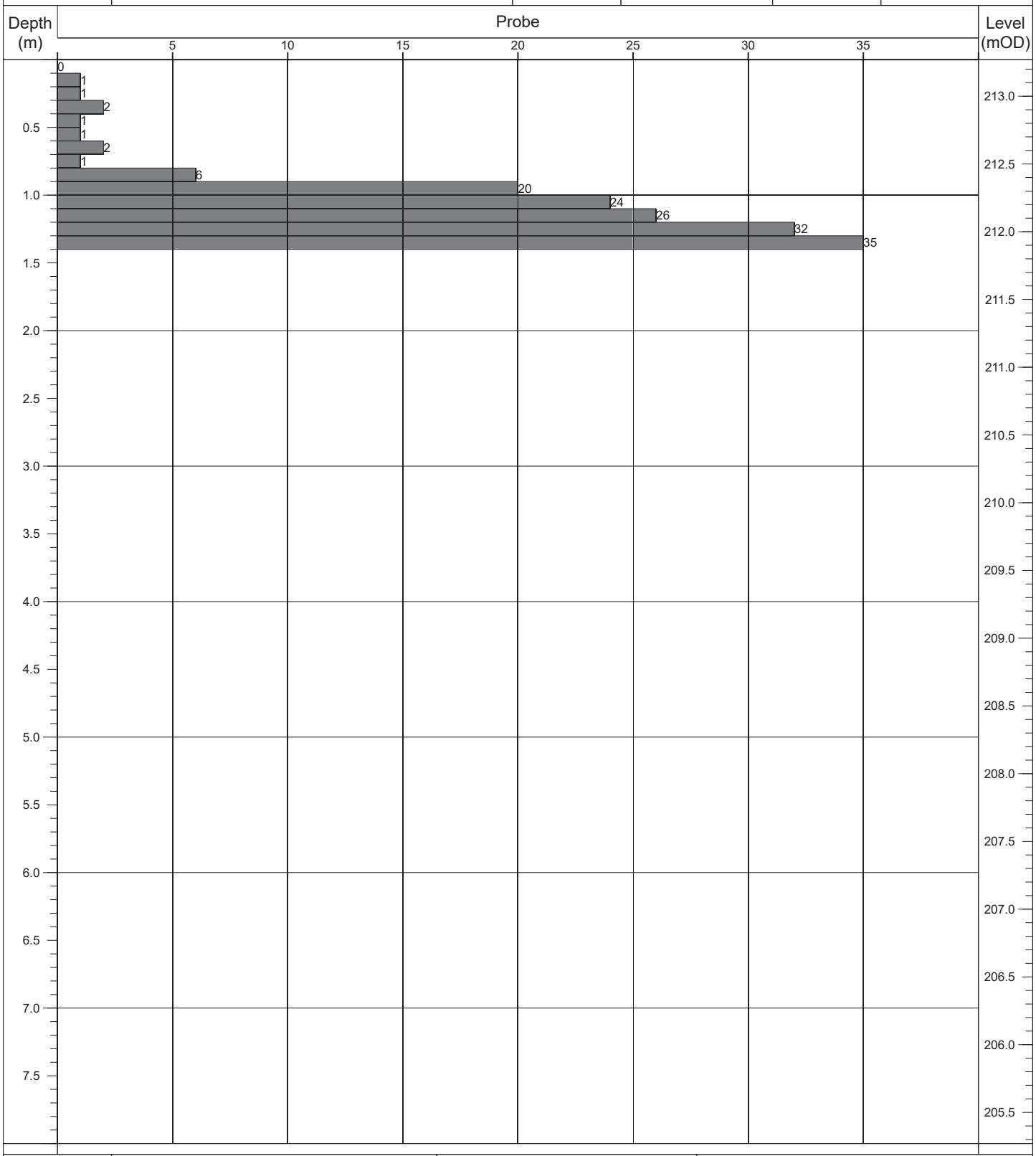
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP186
Contract:	Blessington - Phase 3	Easting:	697603.290	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715297.147	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.72	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



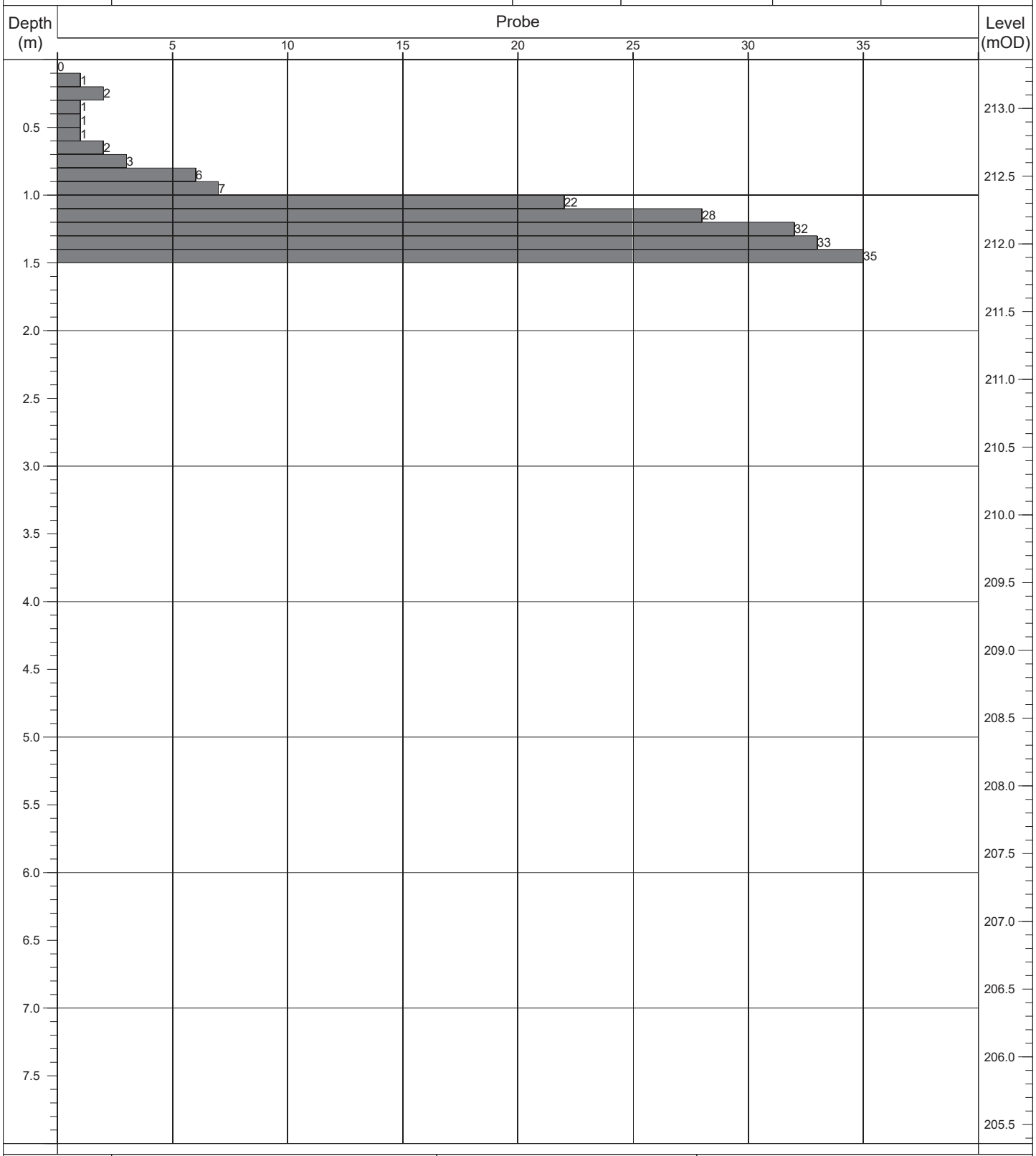
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP187
Contract:	Blessington - Phase 3	Easting:	697589.741	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715283.393	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.27	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



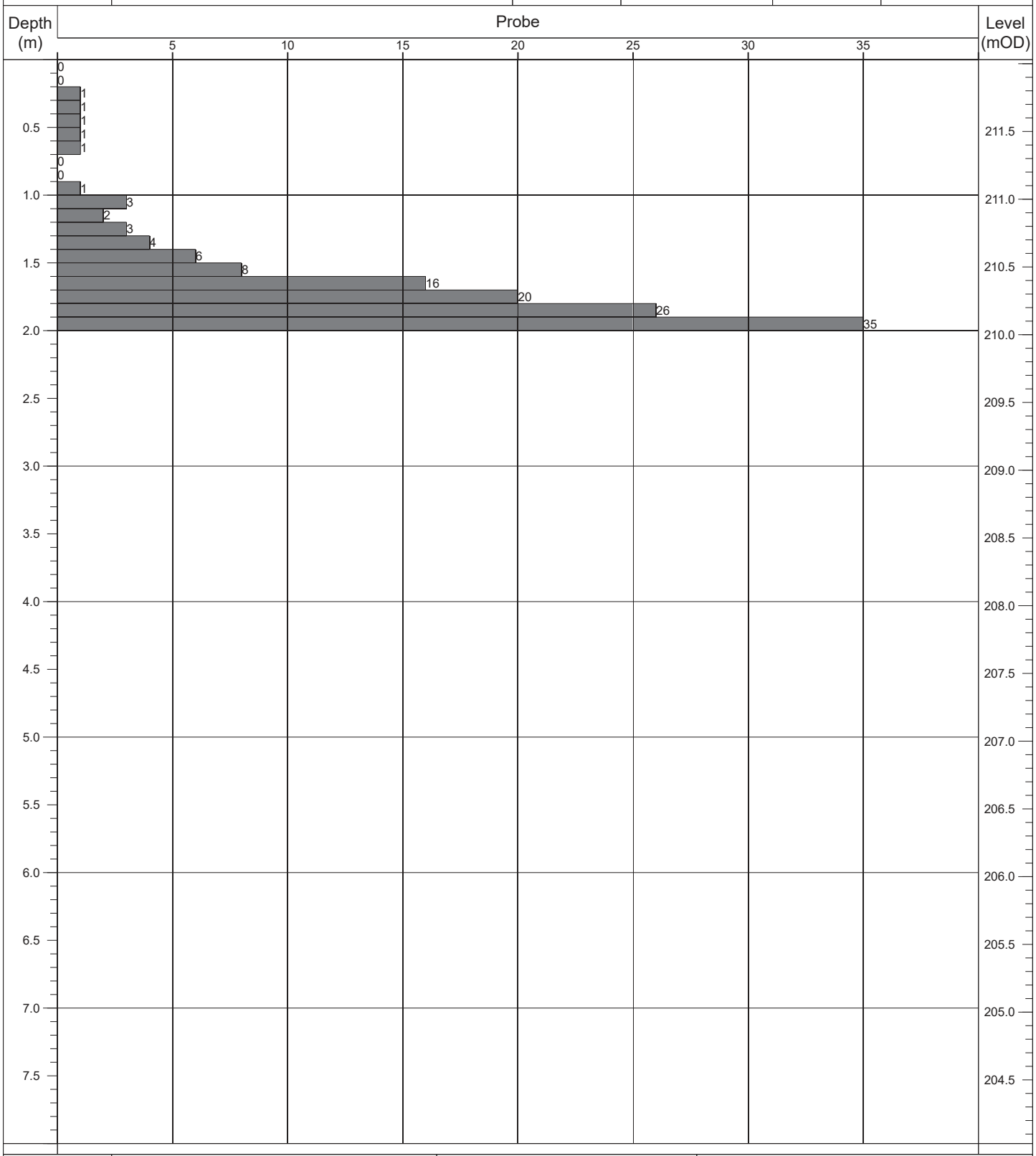
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP188
Contract:	Blessington - Phase 3	Easting:	697593.271	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715287.210	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.36	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



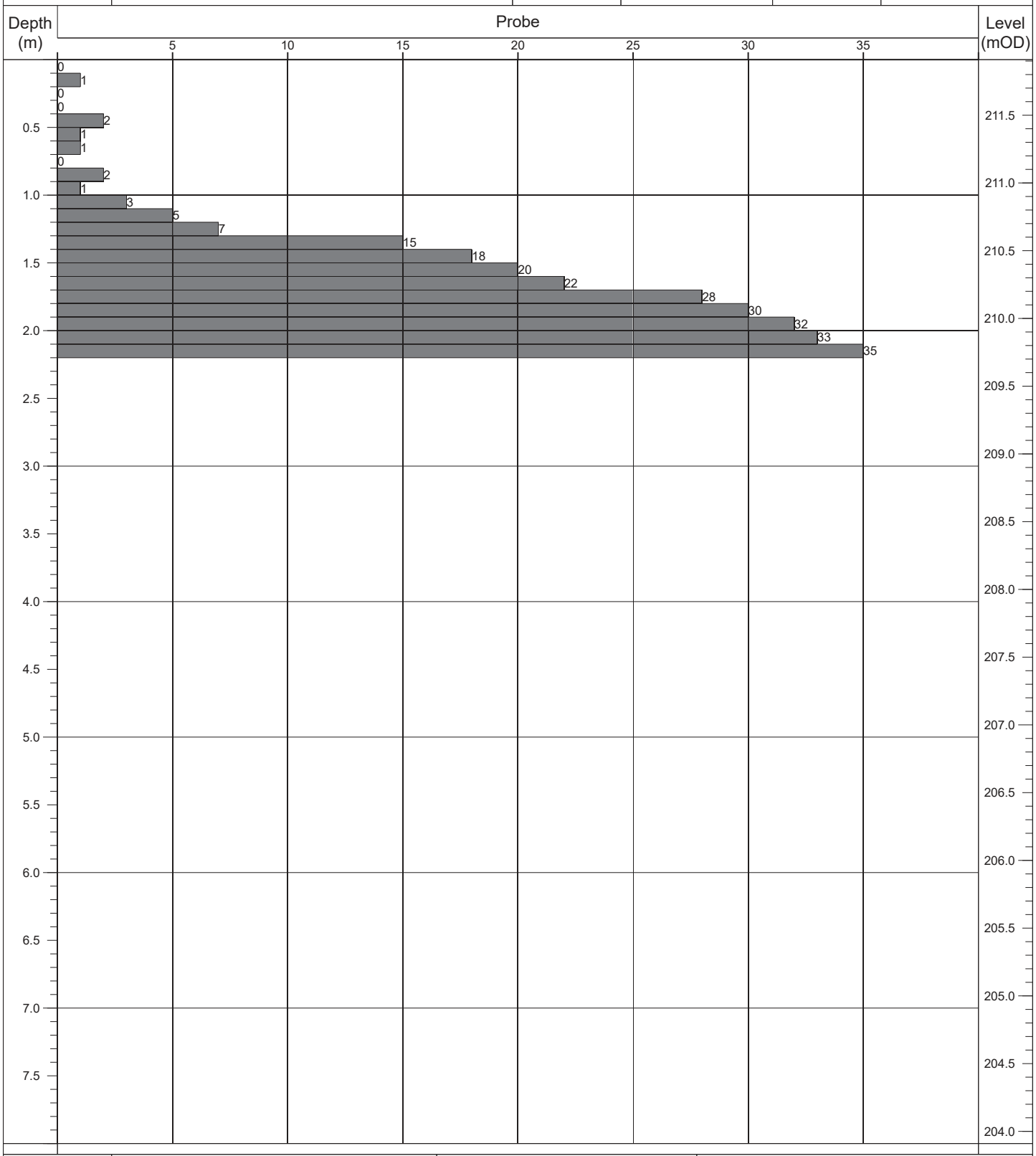
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP189
Contract:	Blessington - Phase 3	Easting:	697604.713	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715258.343	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.03	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



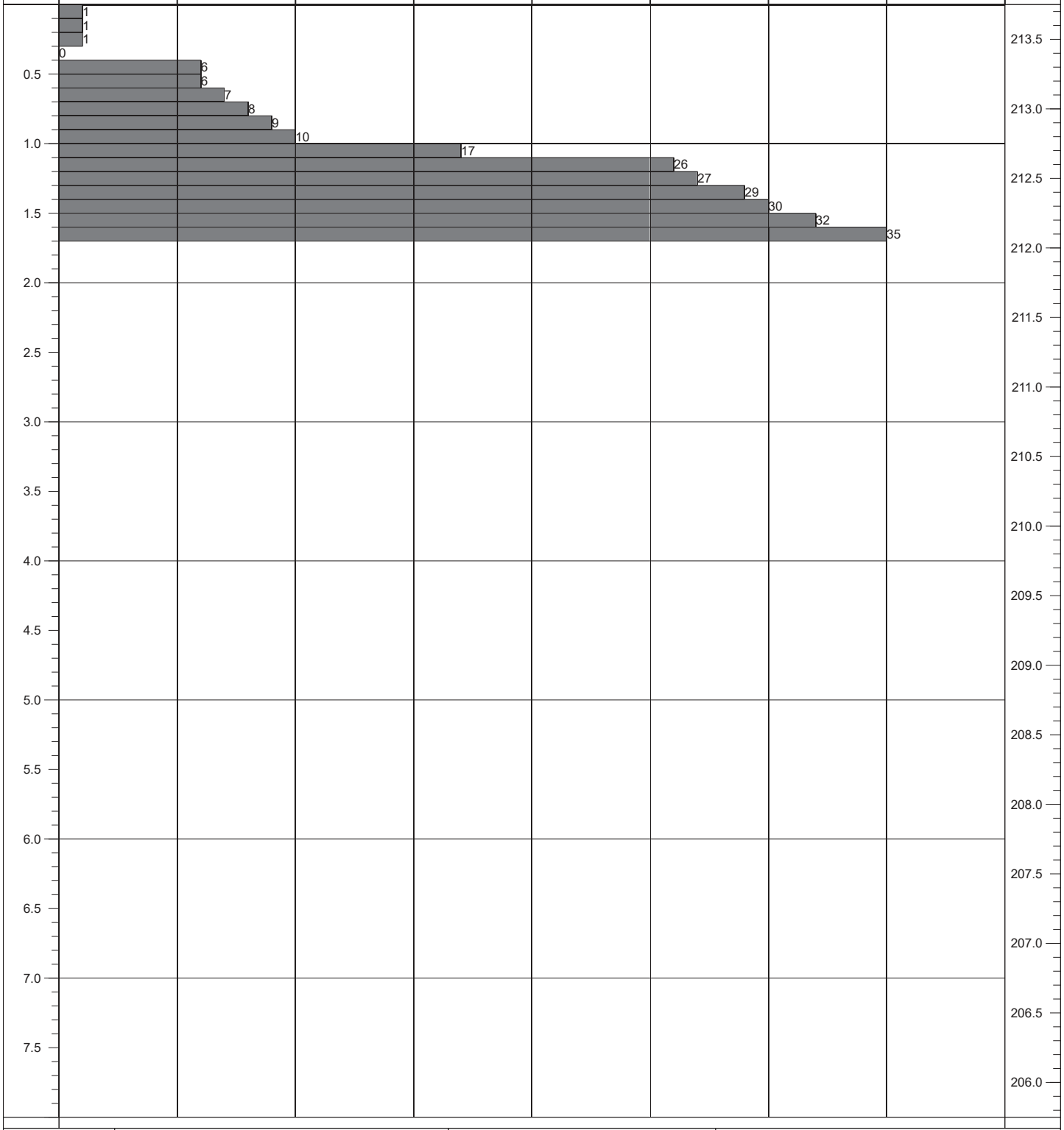
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP190
Contract:	Blessington - Phase 3	Easting:	697613.162	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715253.709	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.91	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



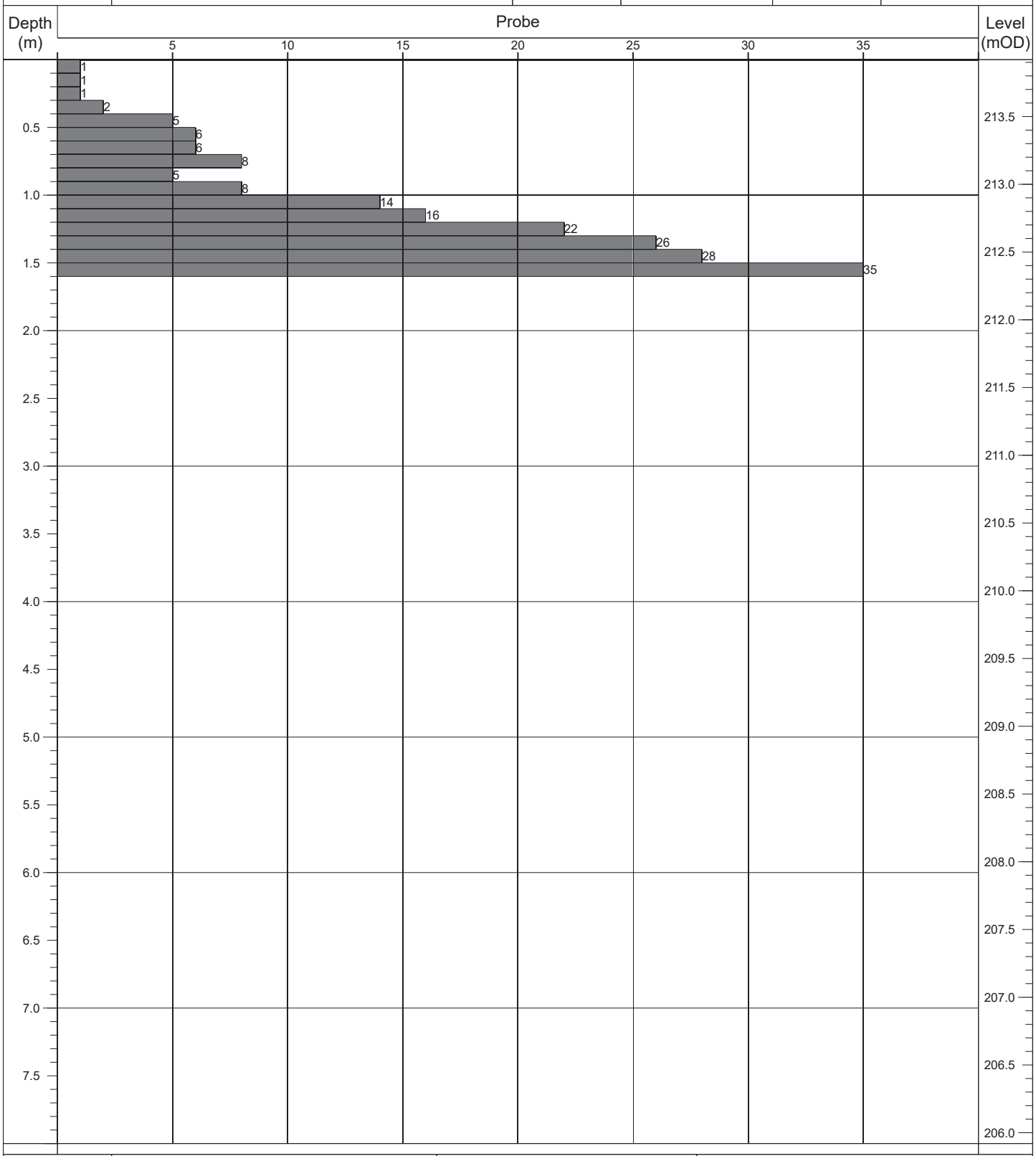
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP191
Contract:	Blessington - Phase 3	Easting:	697607.015	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715301.373	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.75	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



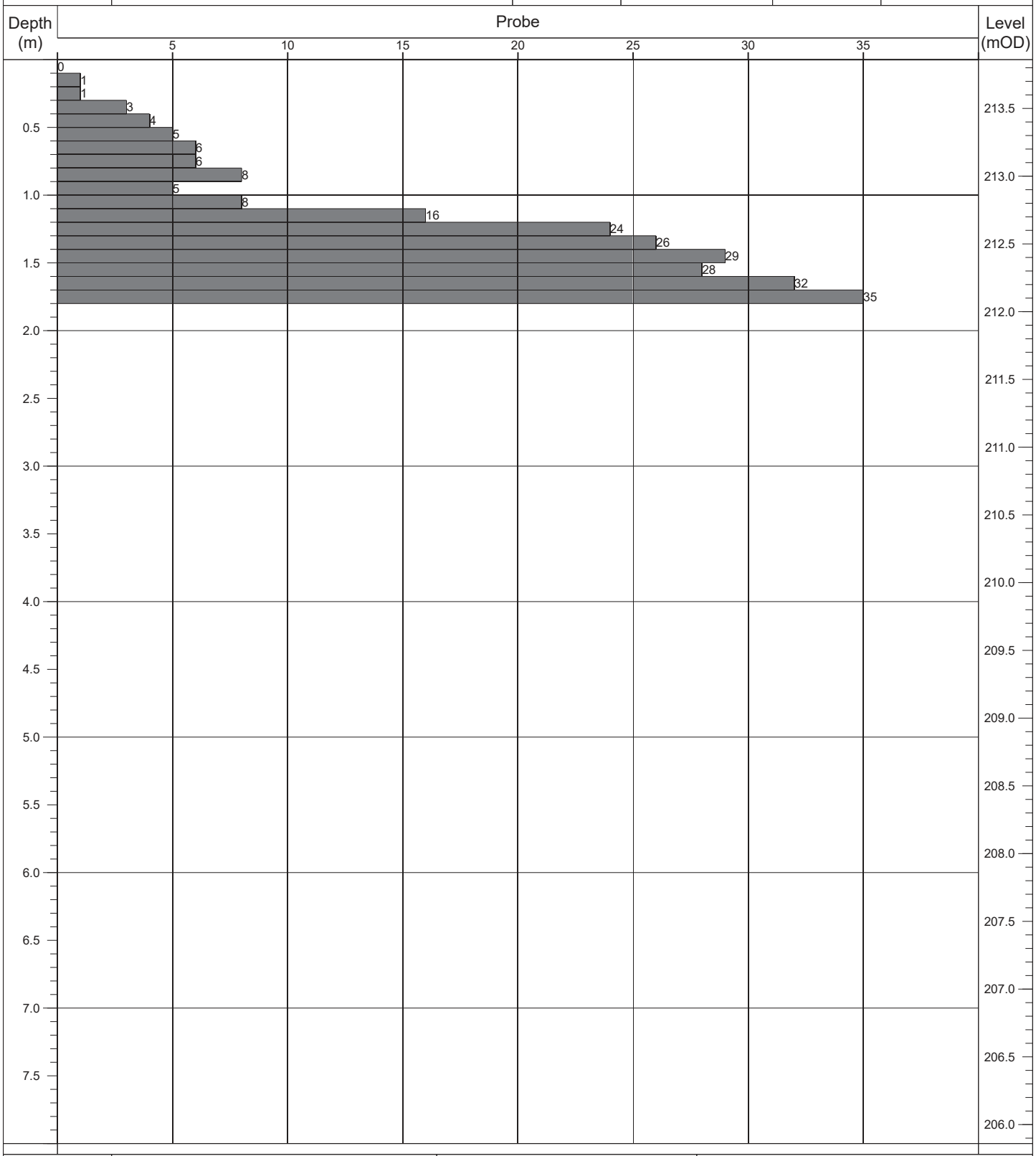
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP192
Contract:	Blessington - Phase 3	Easting:	697610.755	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715304.760	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.92	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



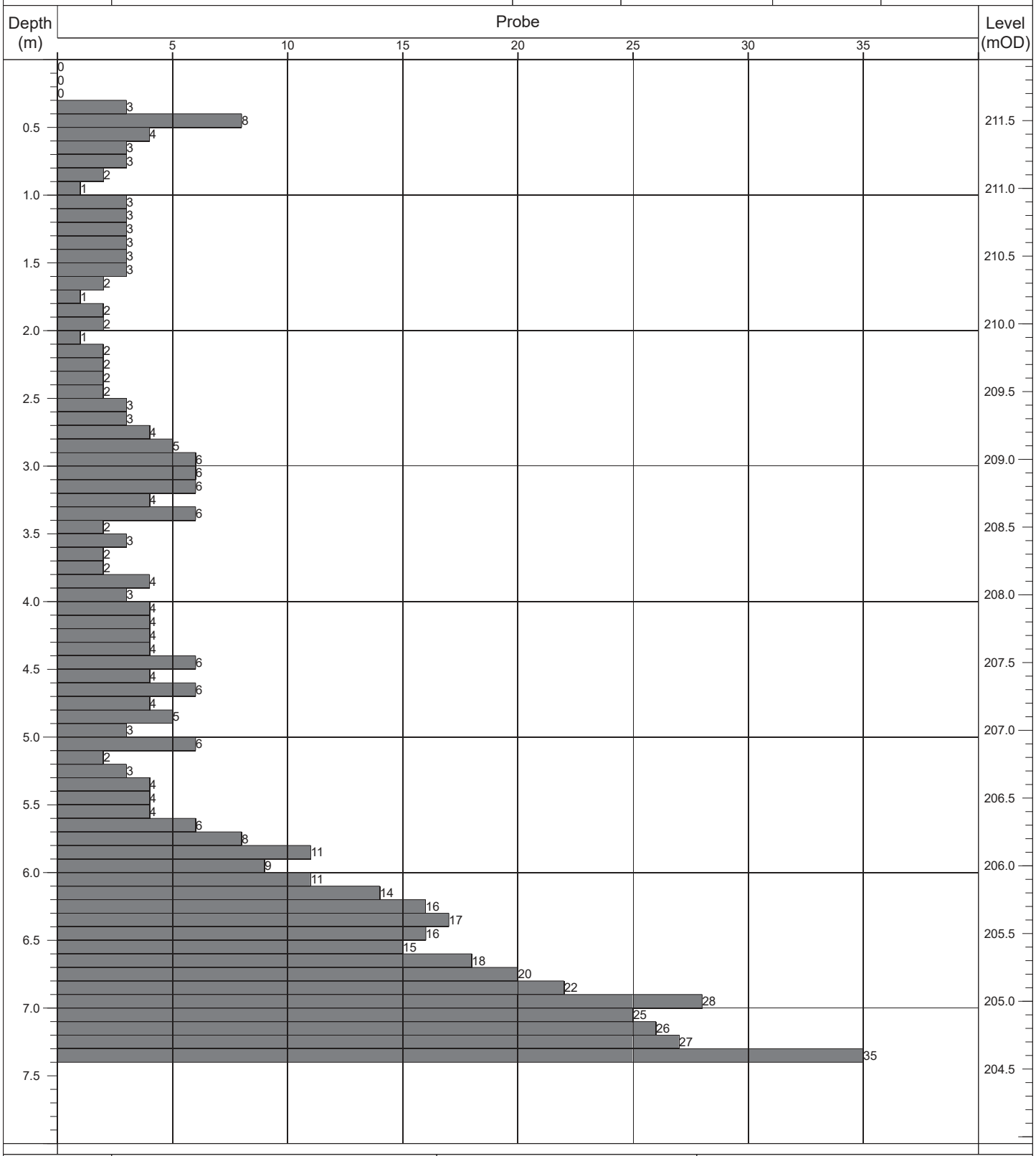
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP193
Contract:	Blessington - Phase 3	Easting:	697671.746	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715318.430	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.86	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



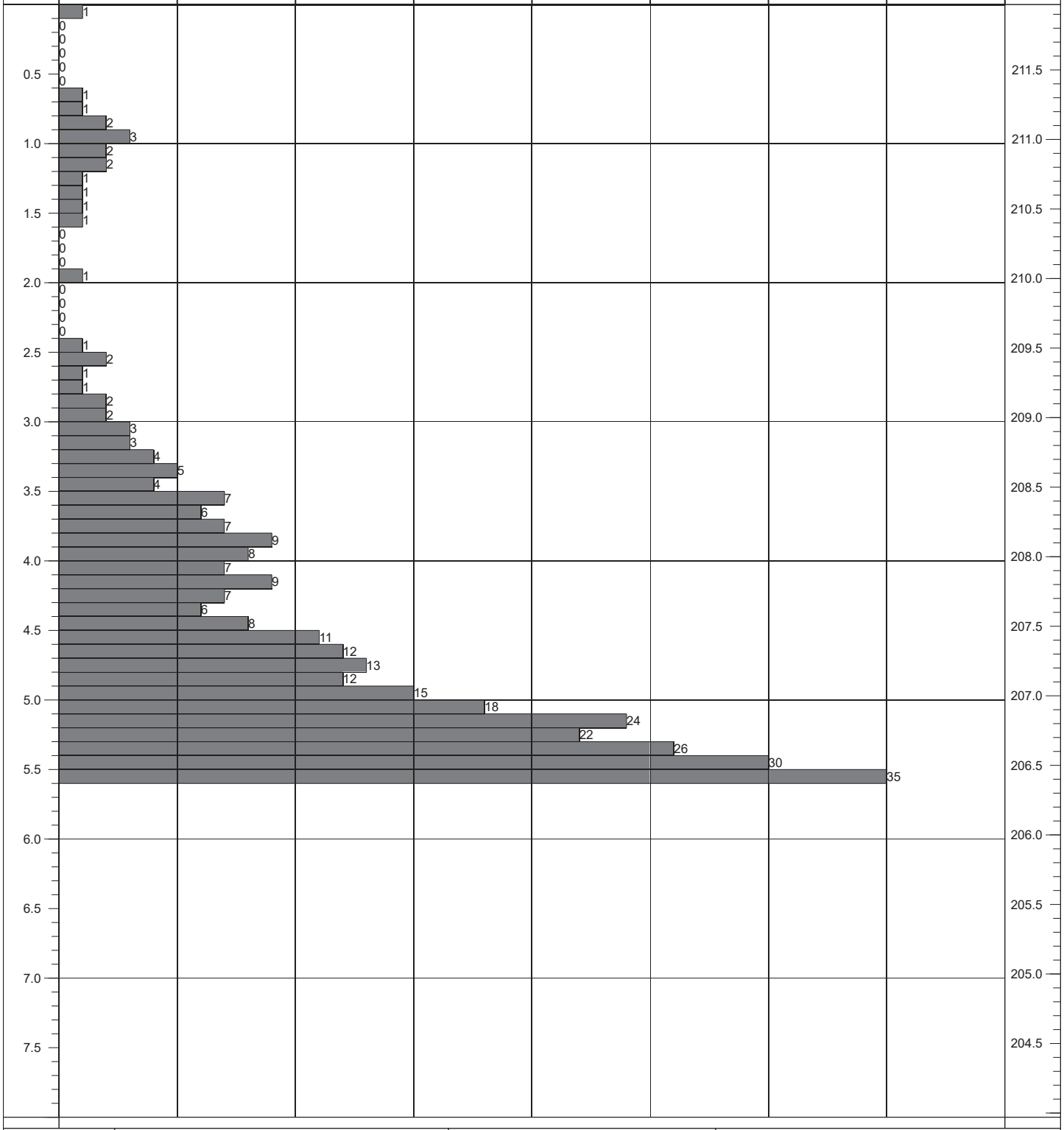
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP194**
Contract:	Blessington - Phase 3	Easting:	697769.644	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715302.404	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.95	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



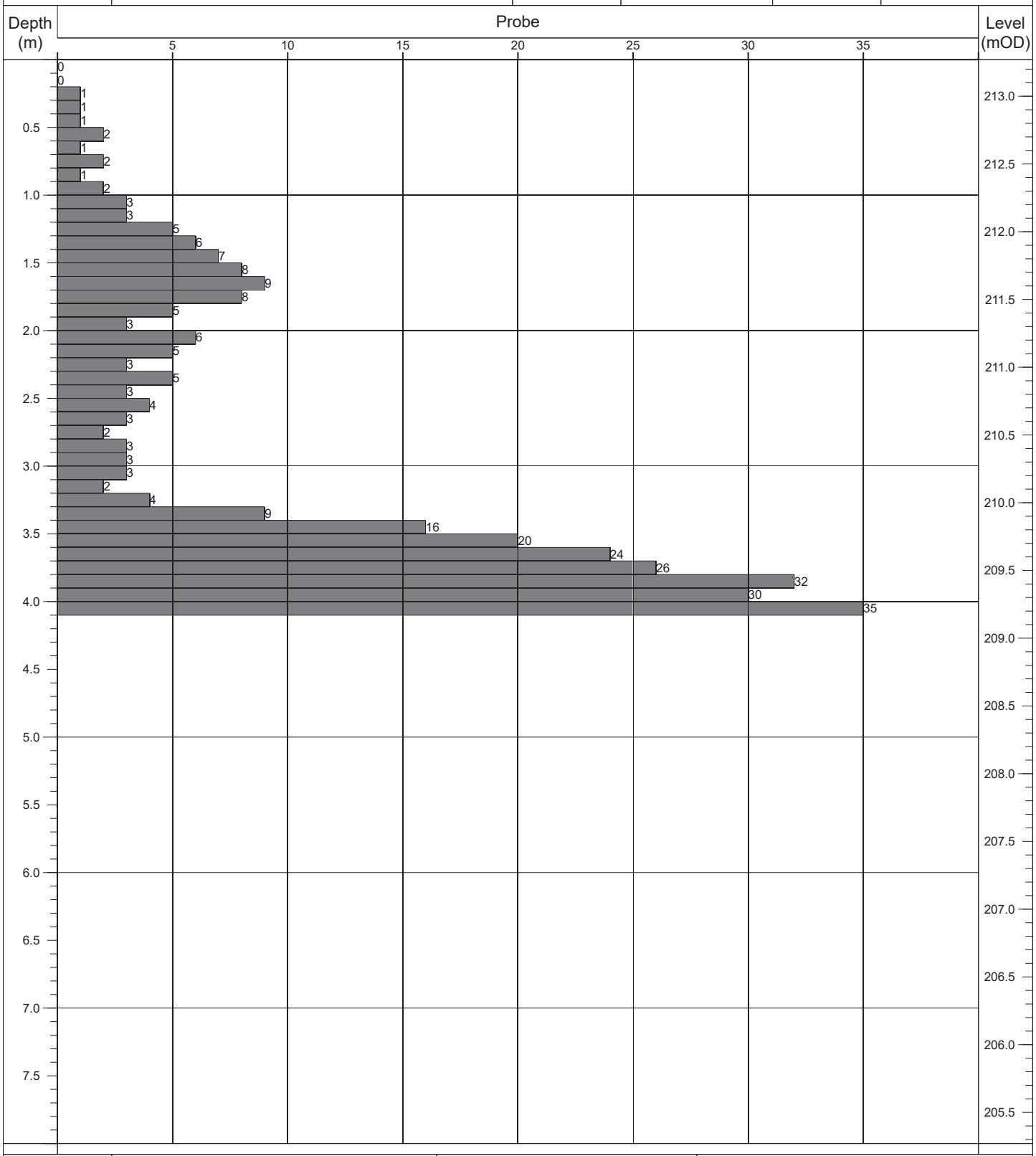
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
7.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP195
Contract:	Blessington - Phase 3	Easting:	697774.142	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715306.354	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.97	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



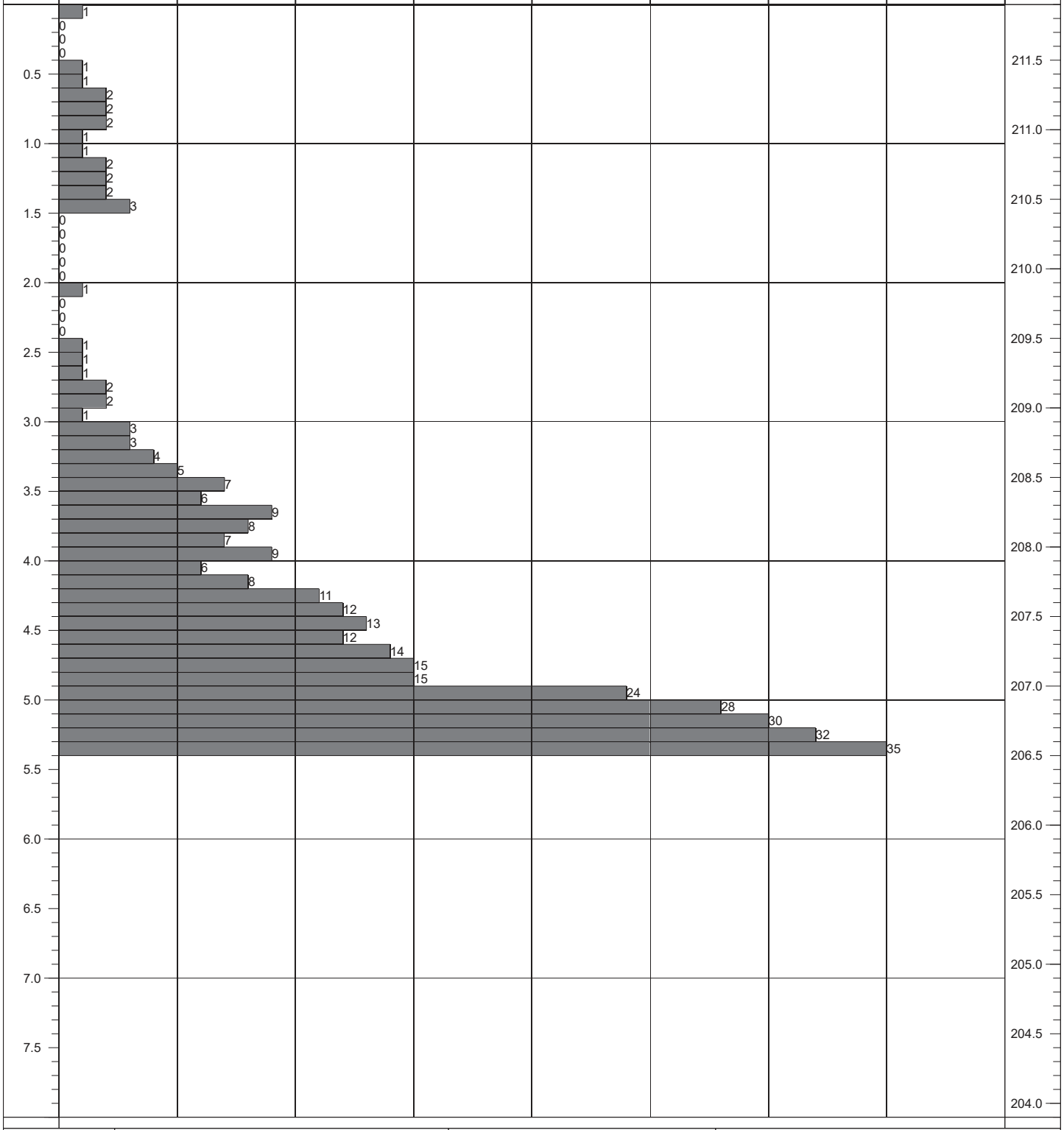
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP196**
Contract:	Blessington - Phase 3	Easting:	697688.434	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715286.007	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.27	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



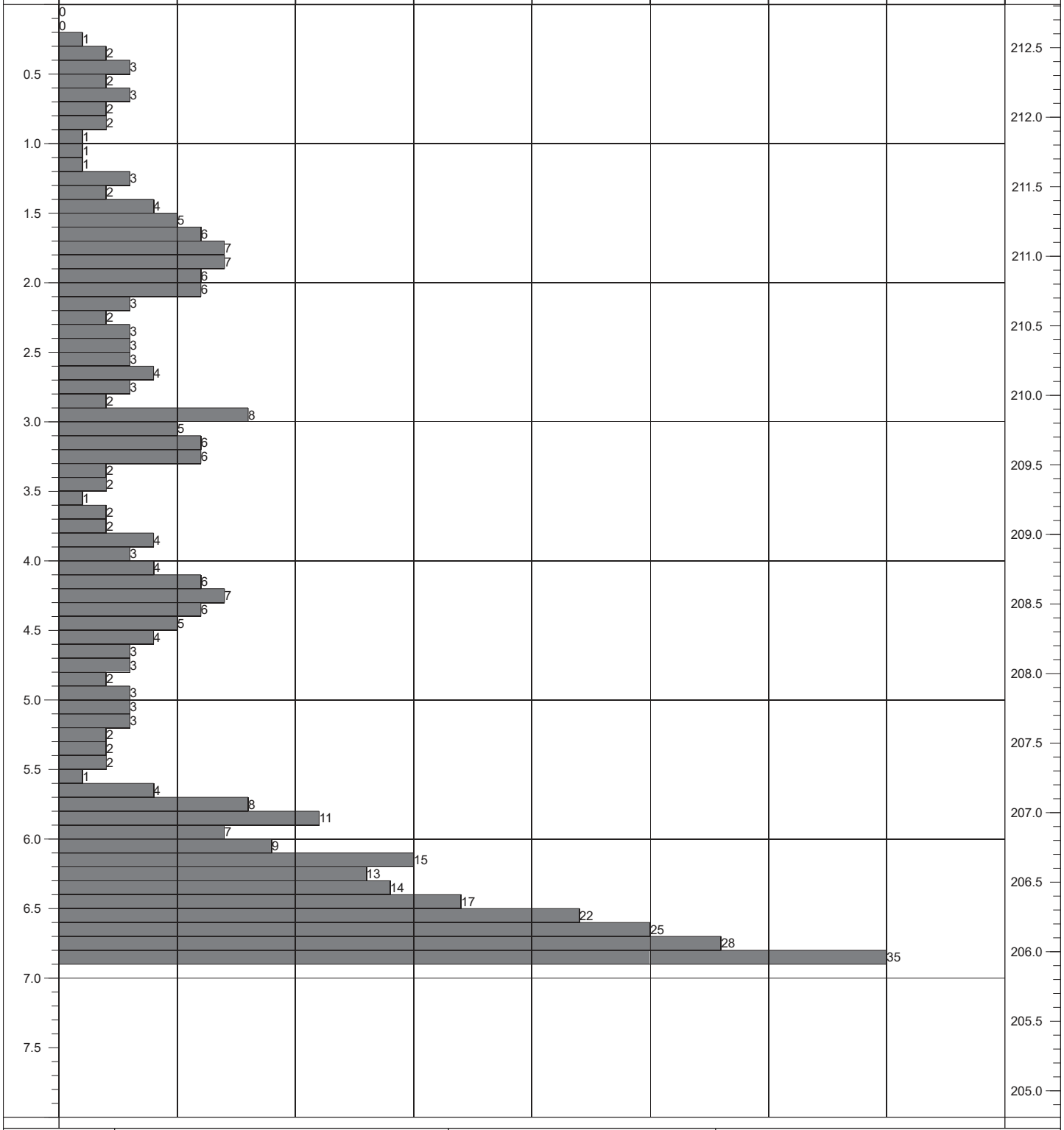
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP197**
Contract:	Blessington - Phase 3	Easting:	697765.715	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715298.441	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.90	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



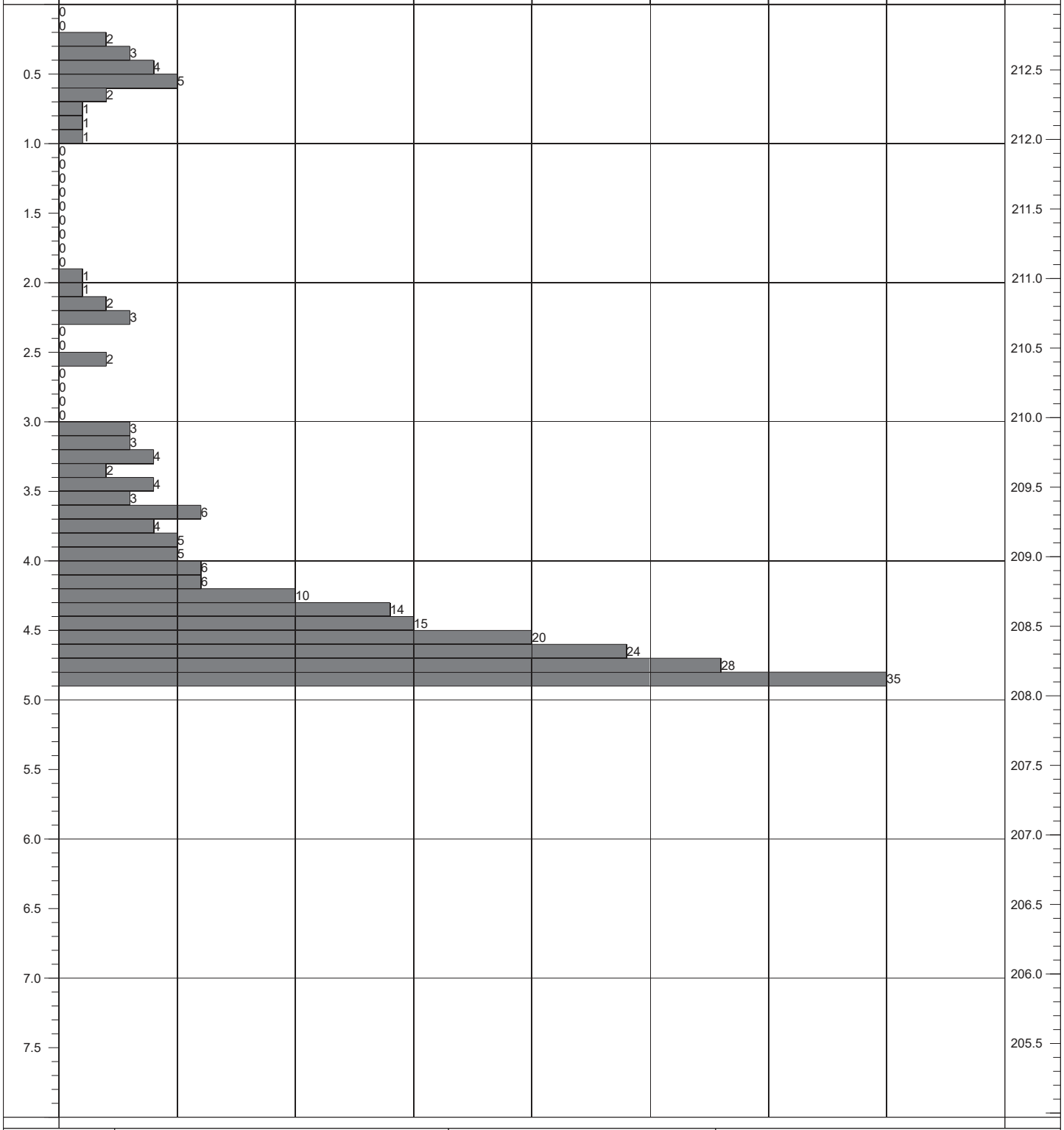
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP198**
Contract:	Blessington - Phase 3	Easting:	697787.754	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715320.093	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.81	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



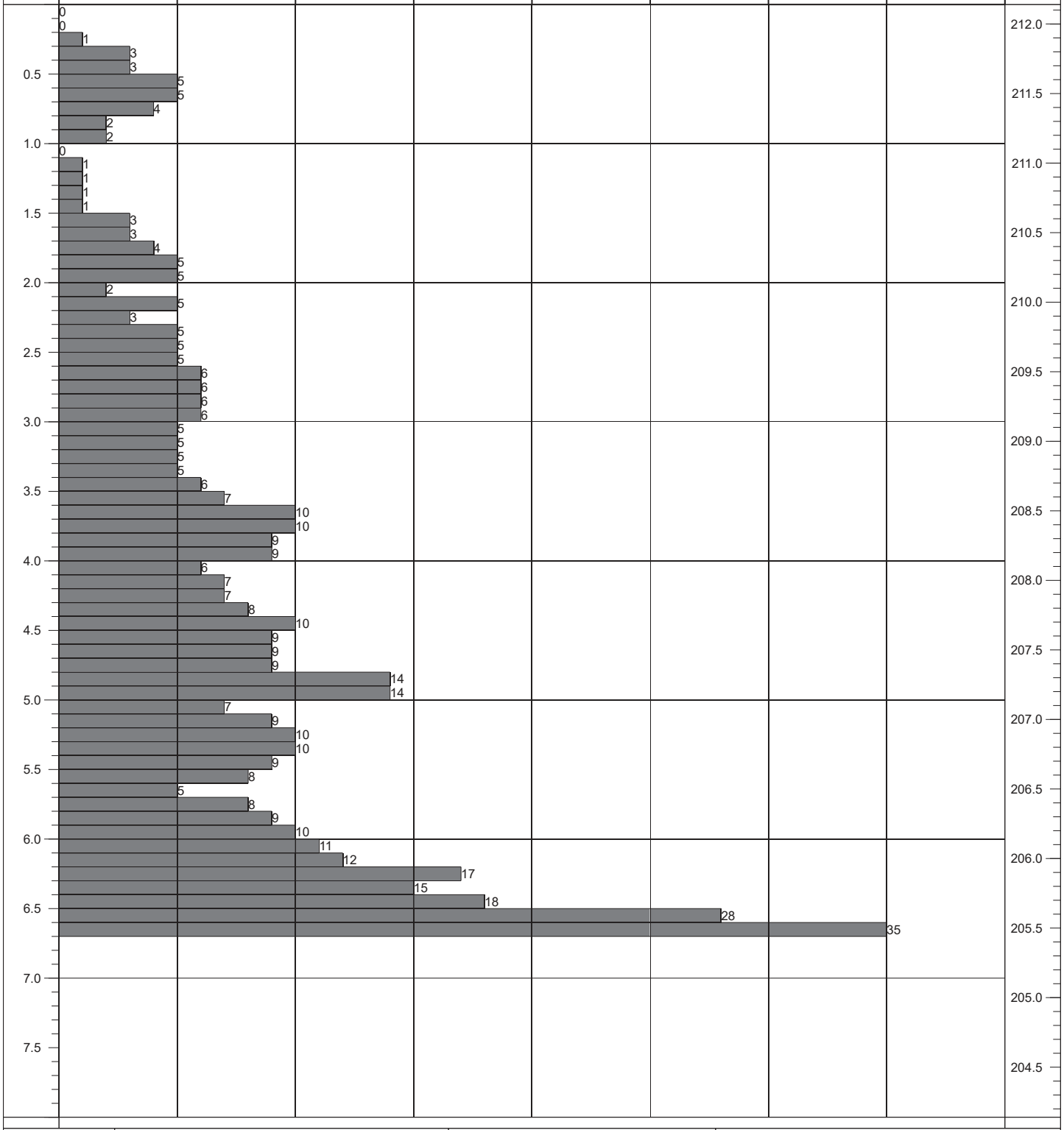
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP199
Contract:	Blessington - Phase 3	Easting:	697791.706	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715324.043	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.97	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



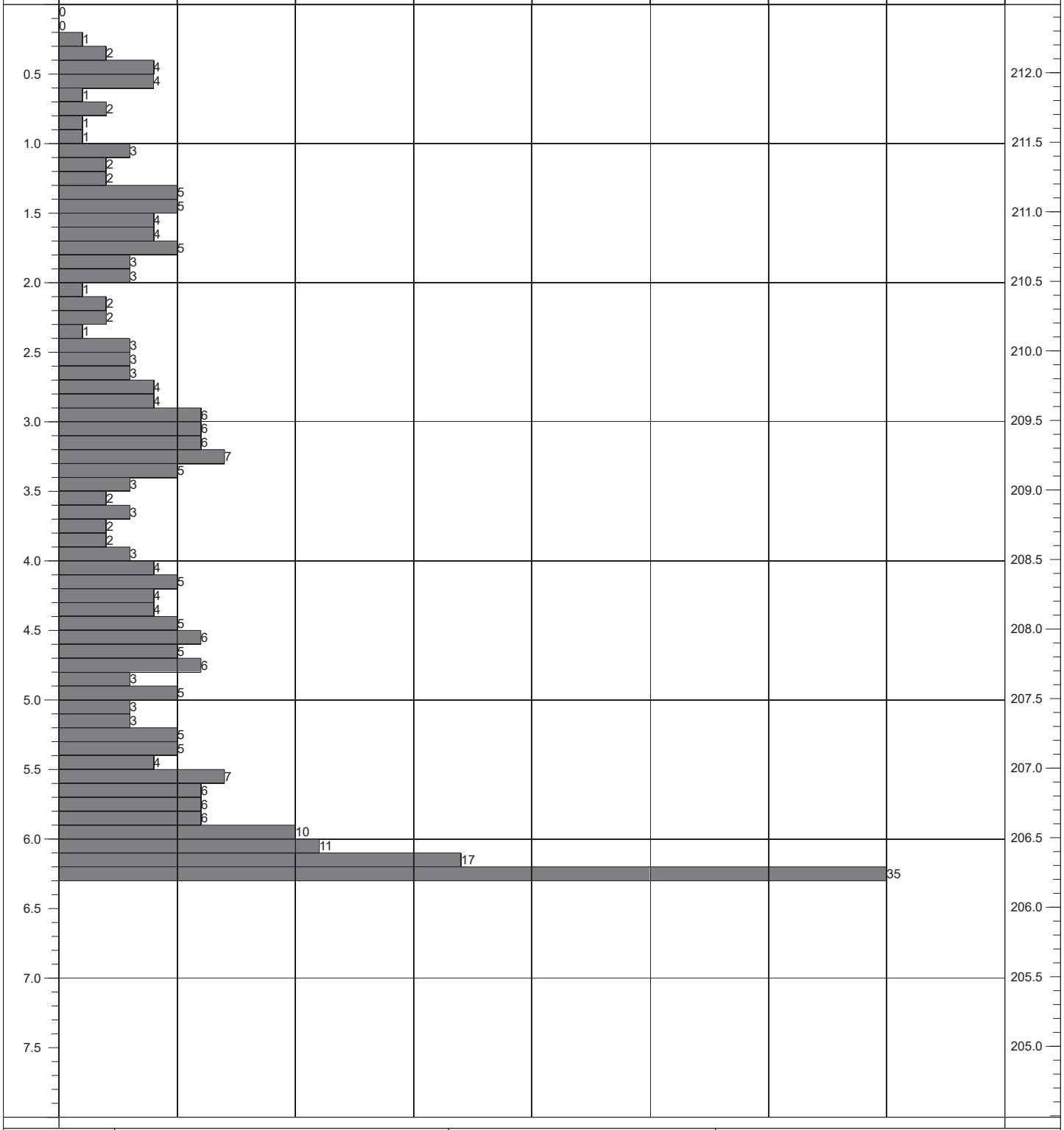
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP200**
Contract:	Blessington - Phase 3	Easting:	697777.957	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715310.408	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.14	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



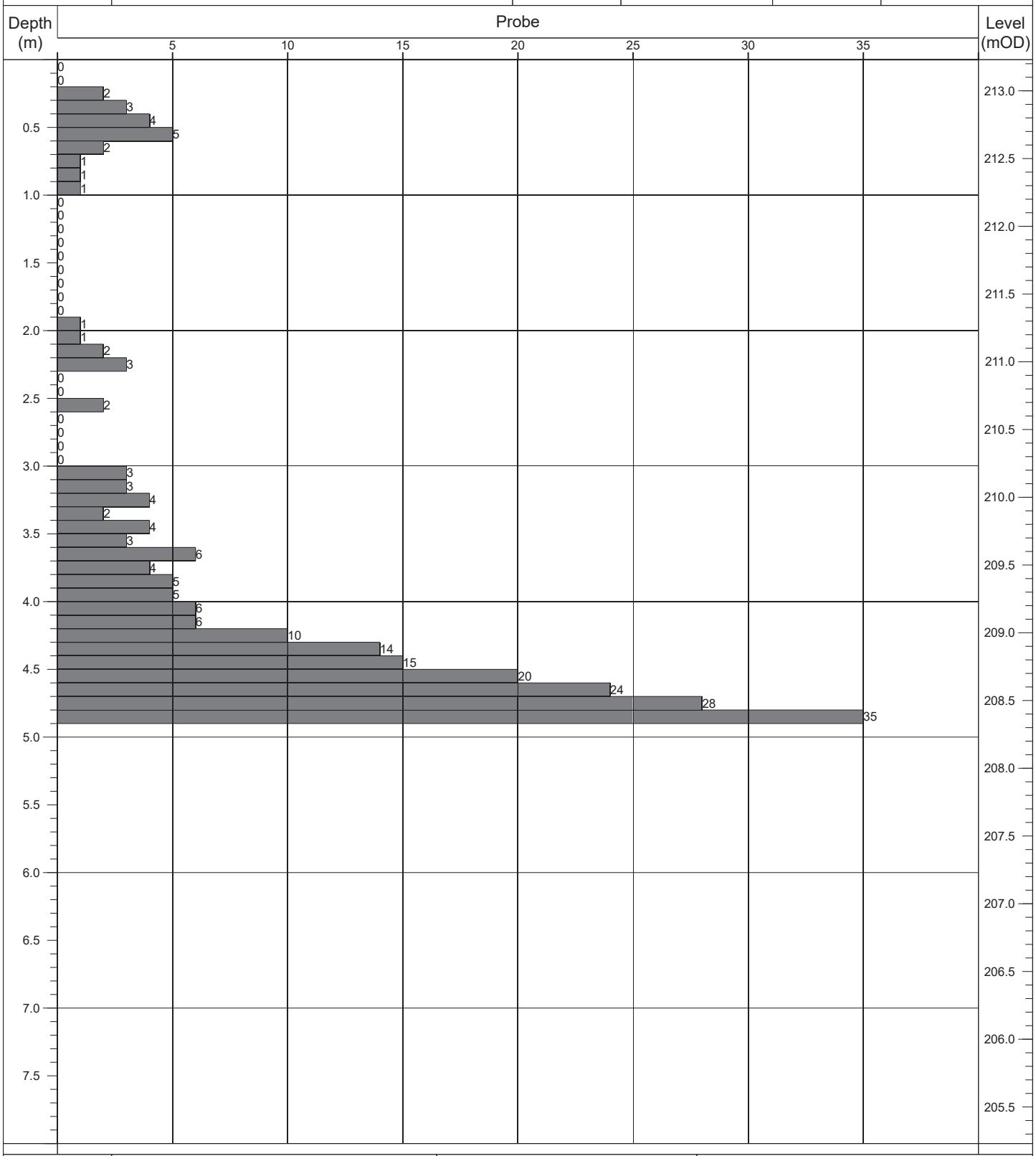
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP201
Contract:	Blessington - Phase 3	Easting:	697784.039	Date Started:	10/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715316.135	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.49	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



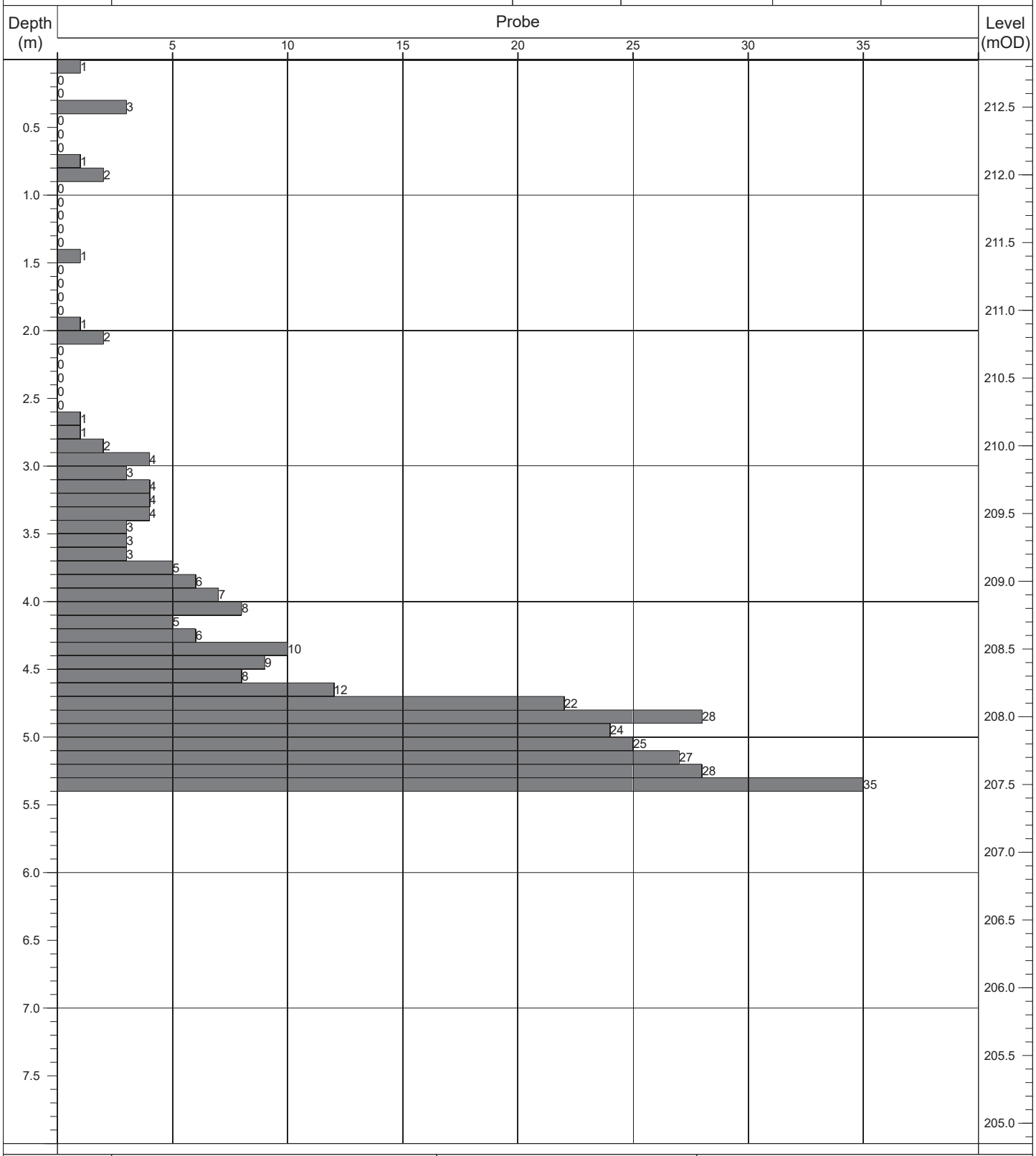
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No:	Dynamic Probe Log				Probe No:
6100					**DP202**
Contract:	Blessington - Phase 3	Easting:	697684.246	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715282.327	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.23	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



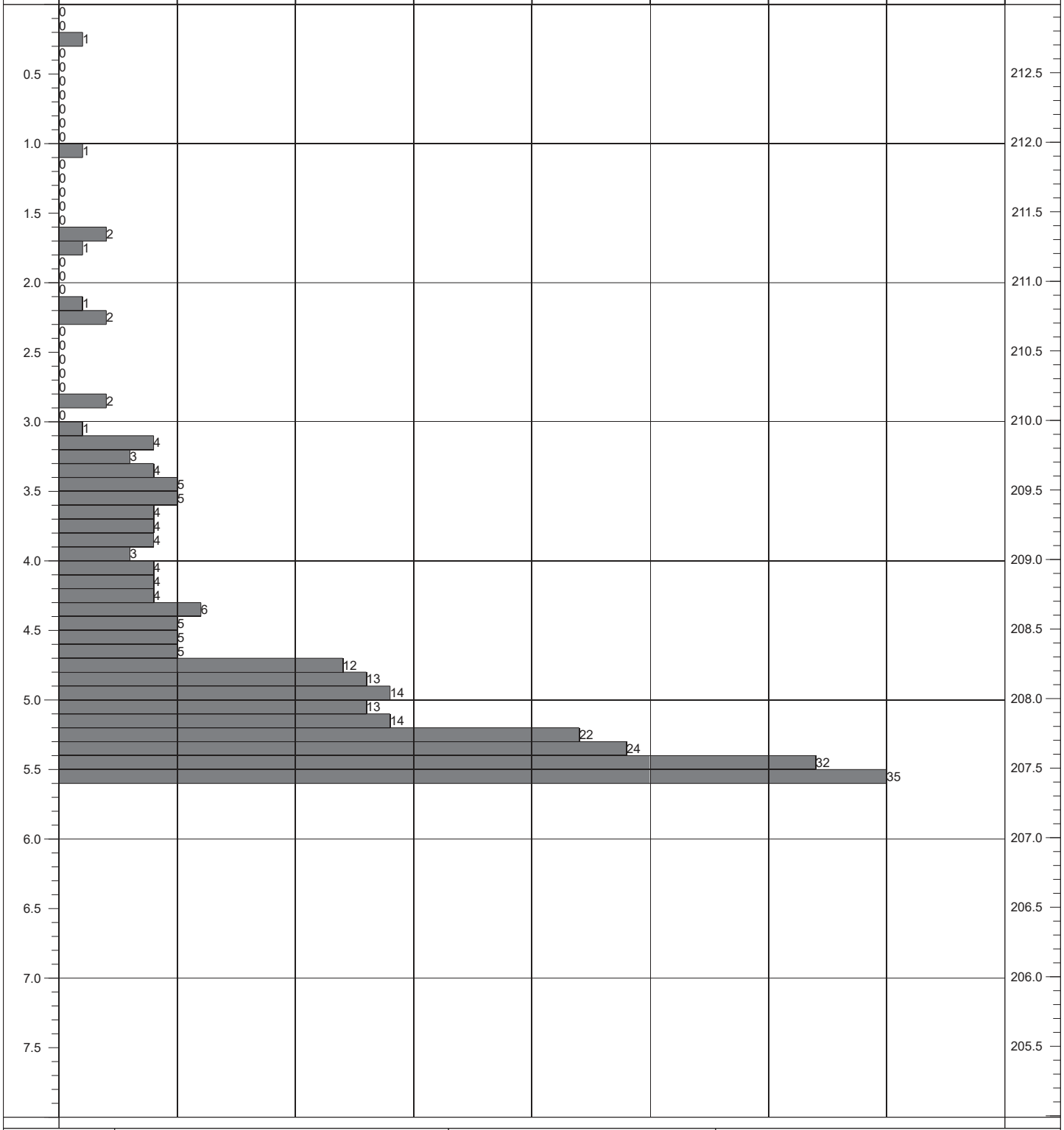
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP203
Contract:	Blessington - Phase 3	Easting:	697659.486	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715256.922	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.85	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



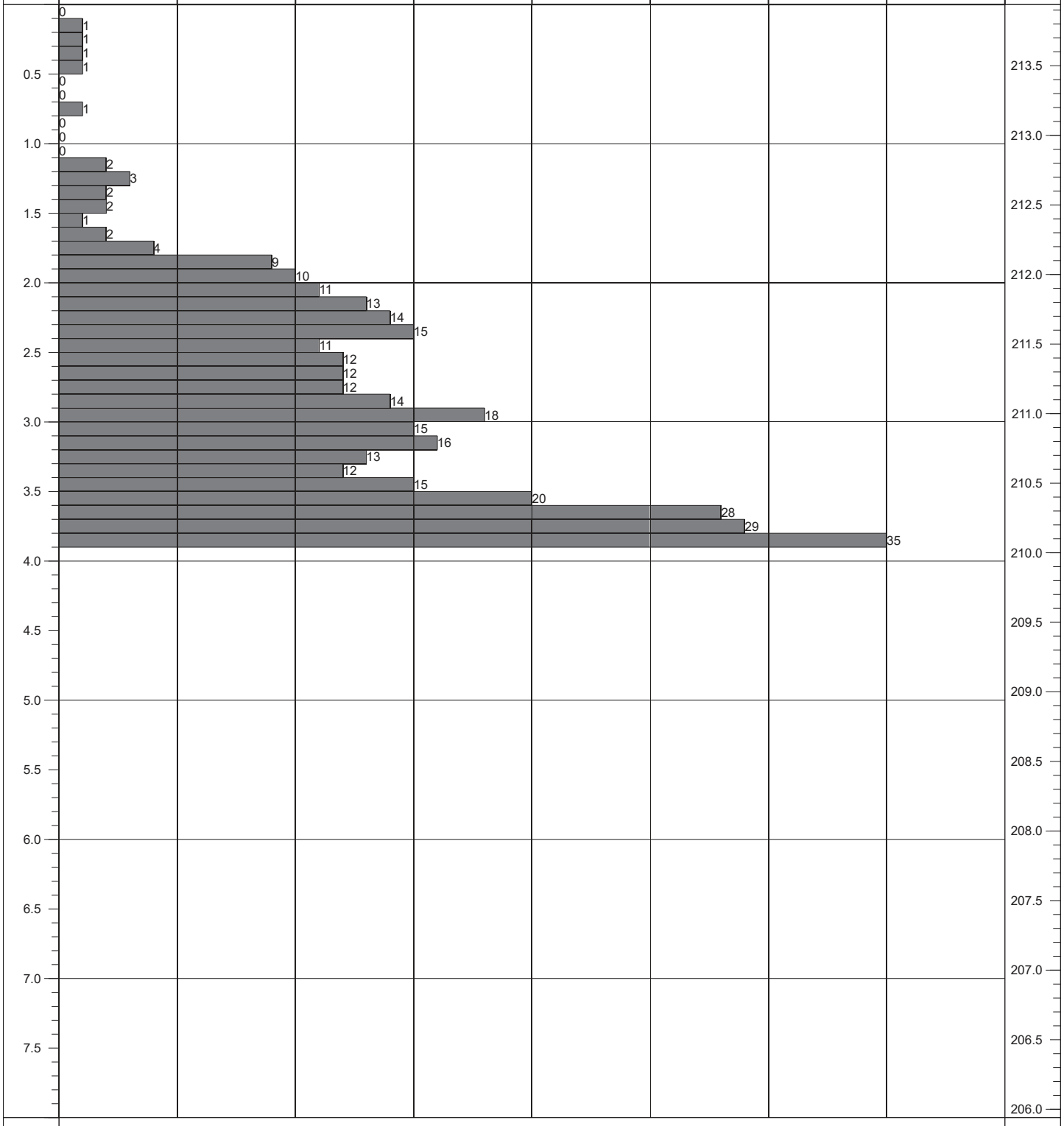
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP204
Contract:	Blessington - Phase 3	Easting:	697663.266	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715260.937	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.99	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



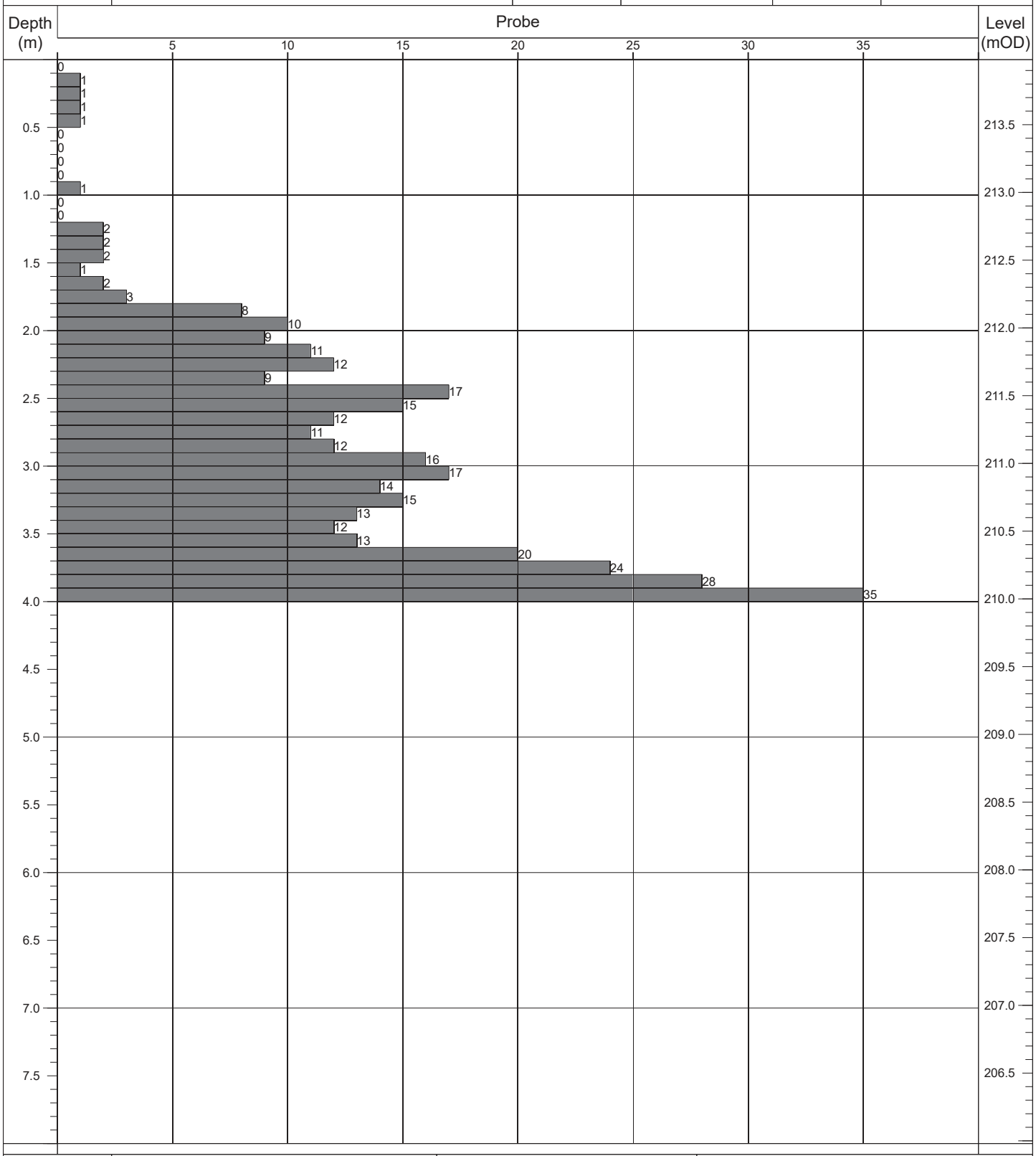
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP205
Contract:	Blessington - Phase 3	Easting:	697676.741	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715321.930	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.94	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



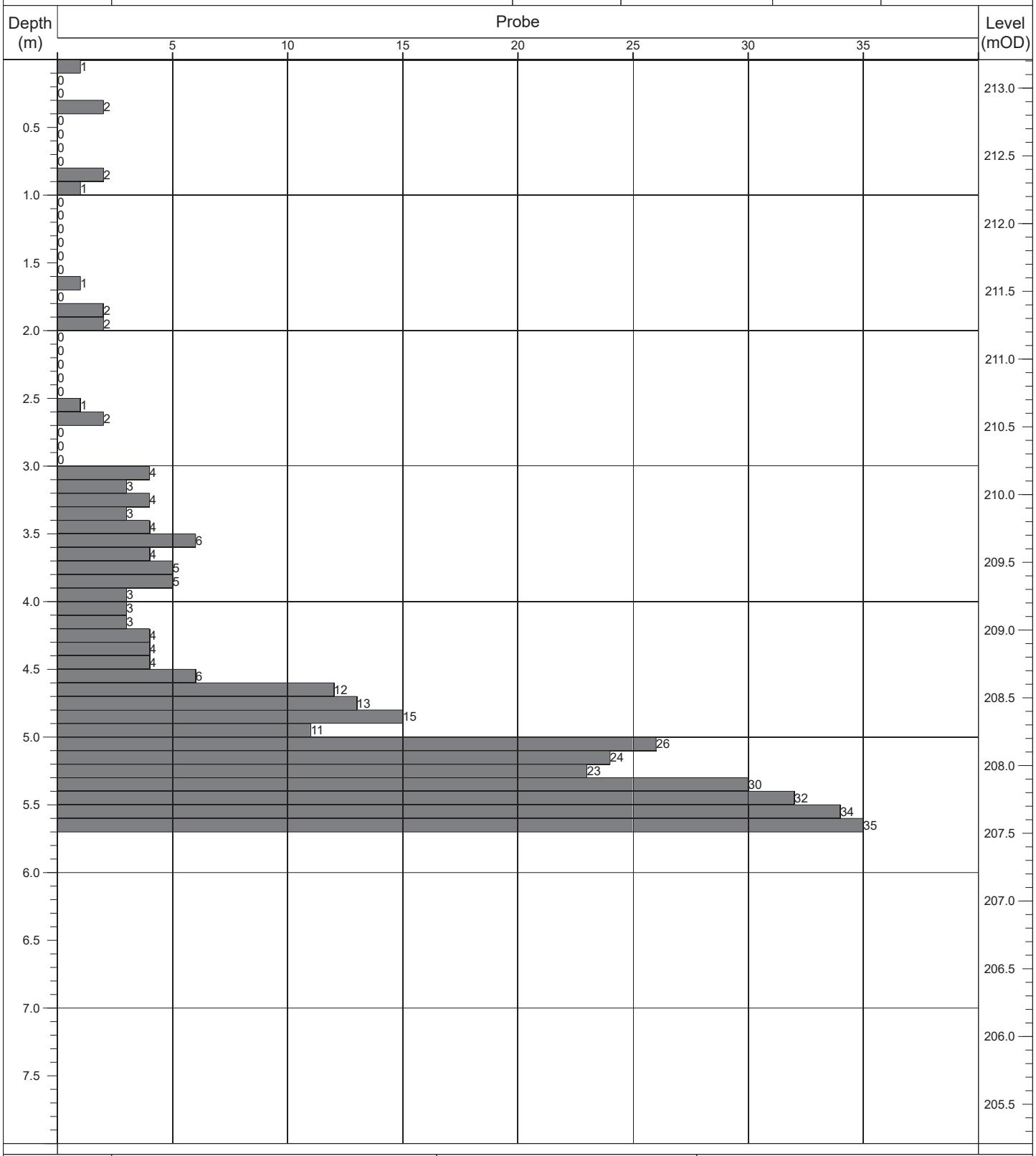
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP206**
Contract:	Blessington - Phase 3	Easting:	697680.329	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715325.701	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.98	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



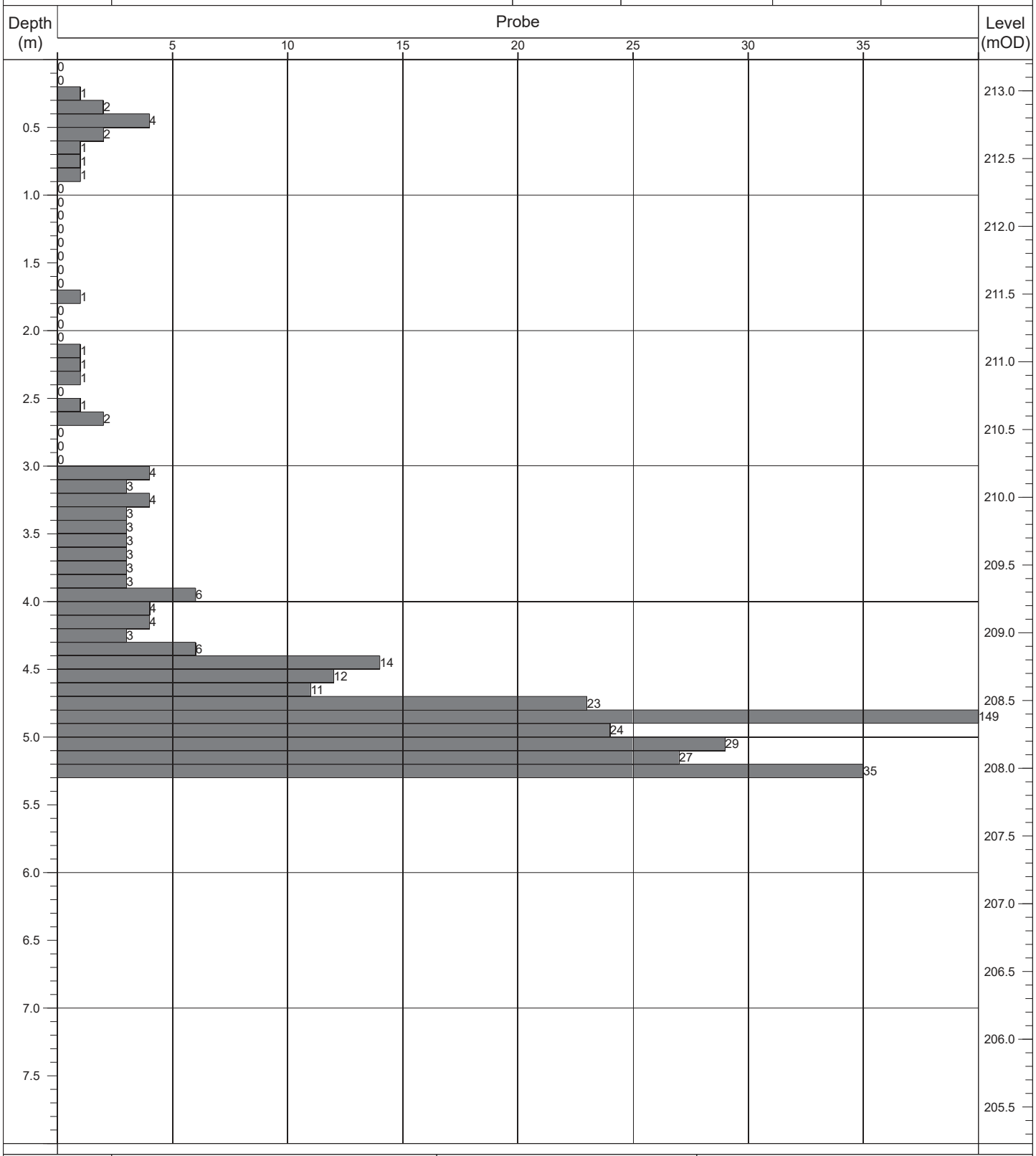
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP207
Contract:	Blessington - Phase 3	Easting:	697676.721	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715274.567	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.21	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



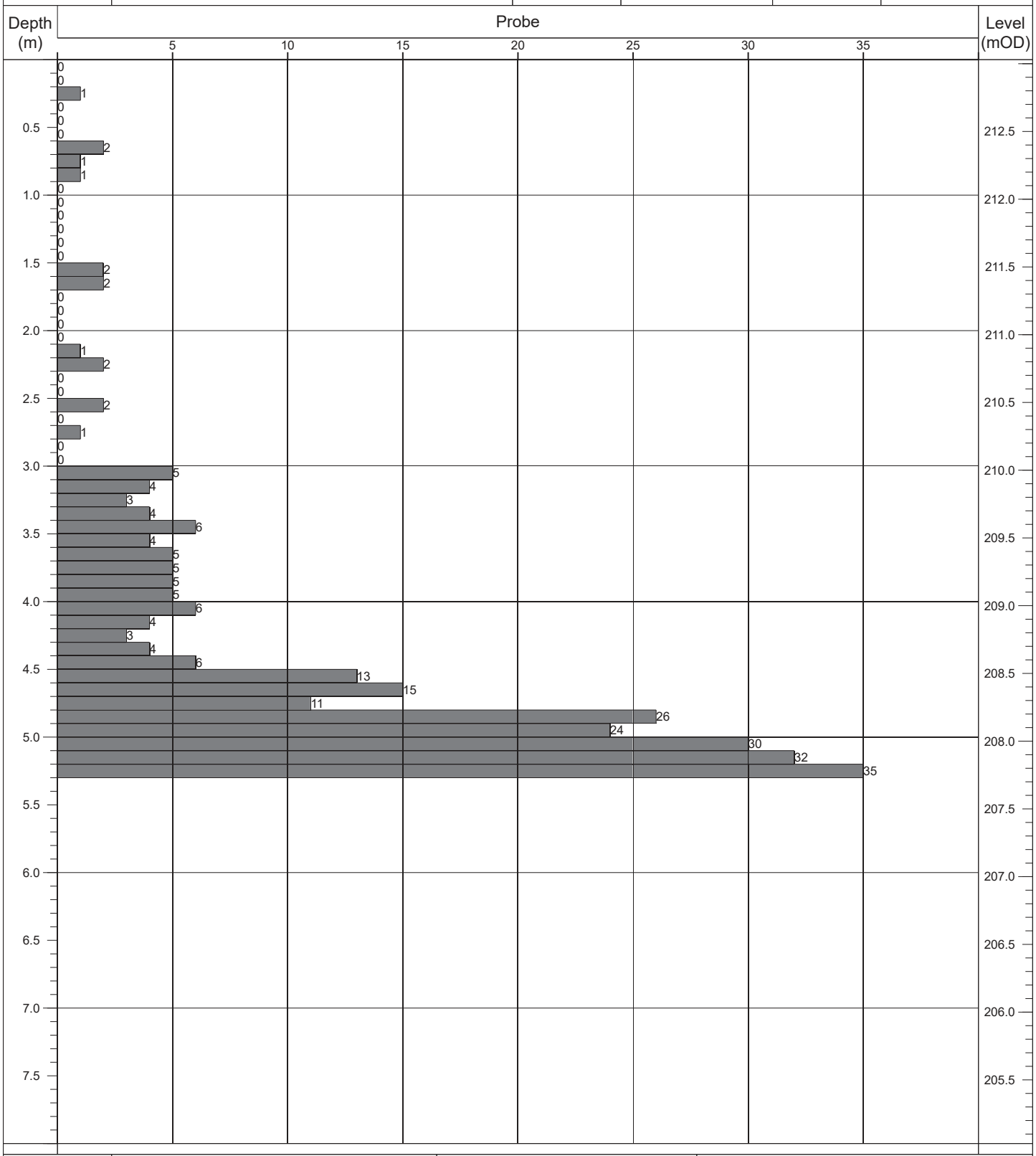
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP208
Contract:	Blessington - Phase 3	Easting:	697680.379	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715277.959	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.23	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



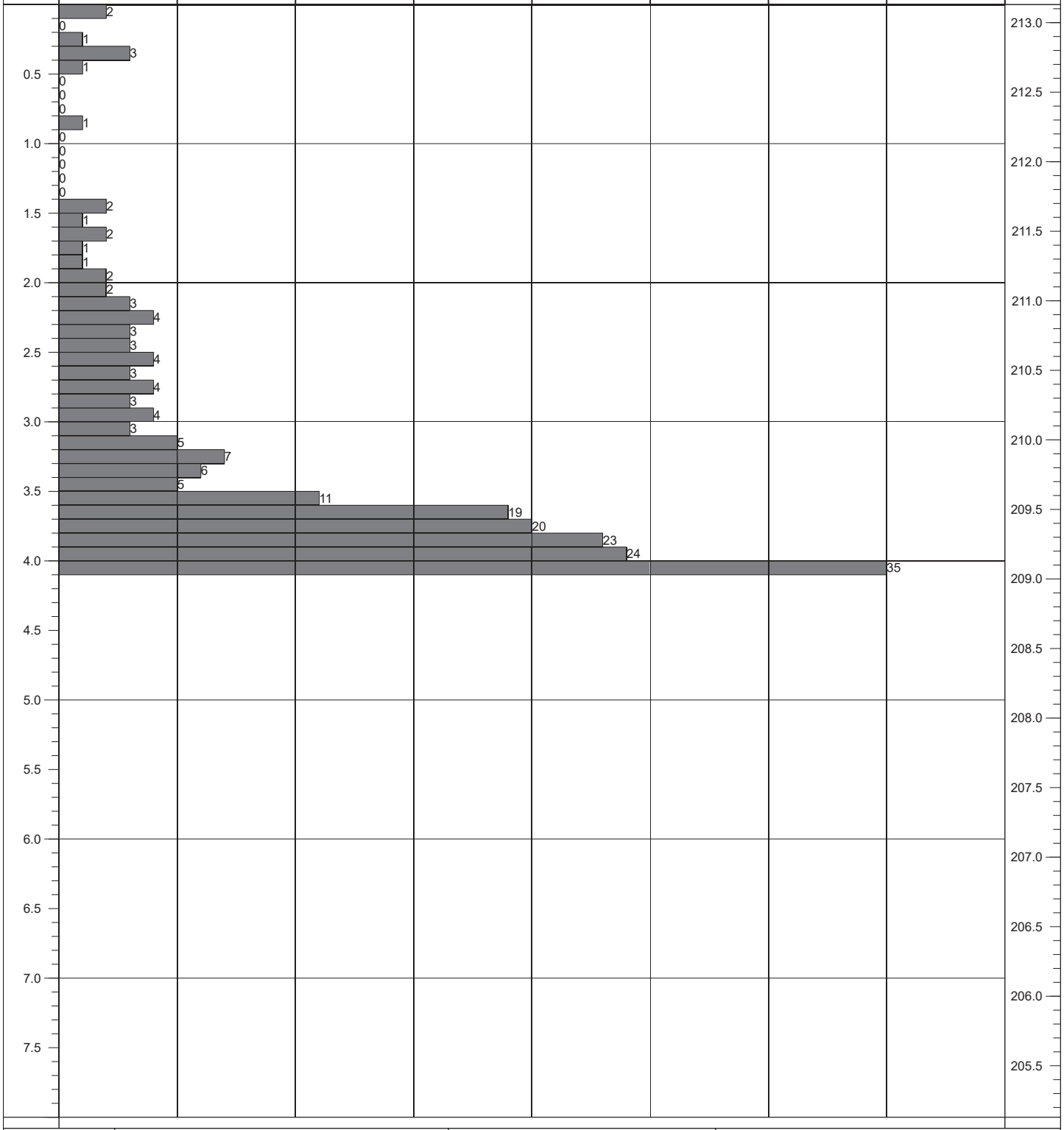
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP209
Contract:	Blessington - Phase 3	Easting:	697666.975	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715264.981	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.03	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



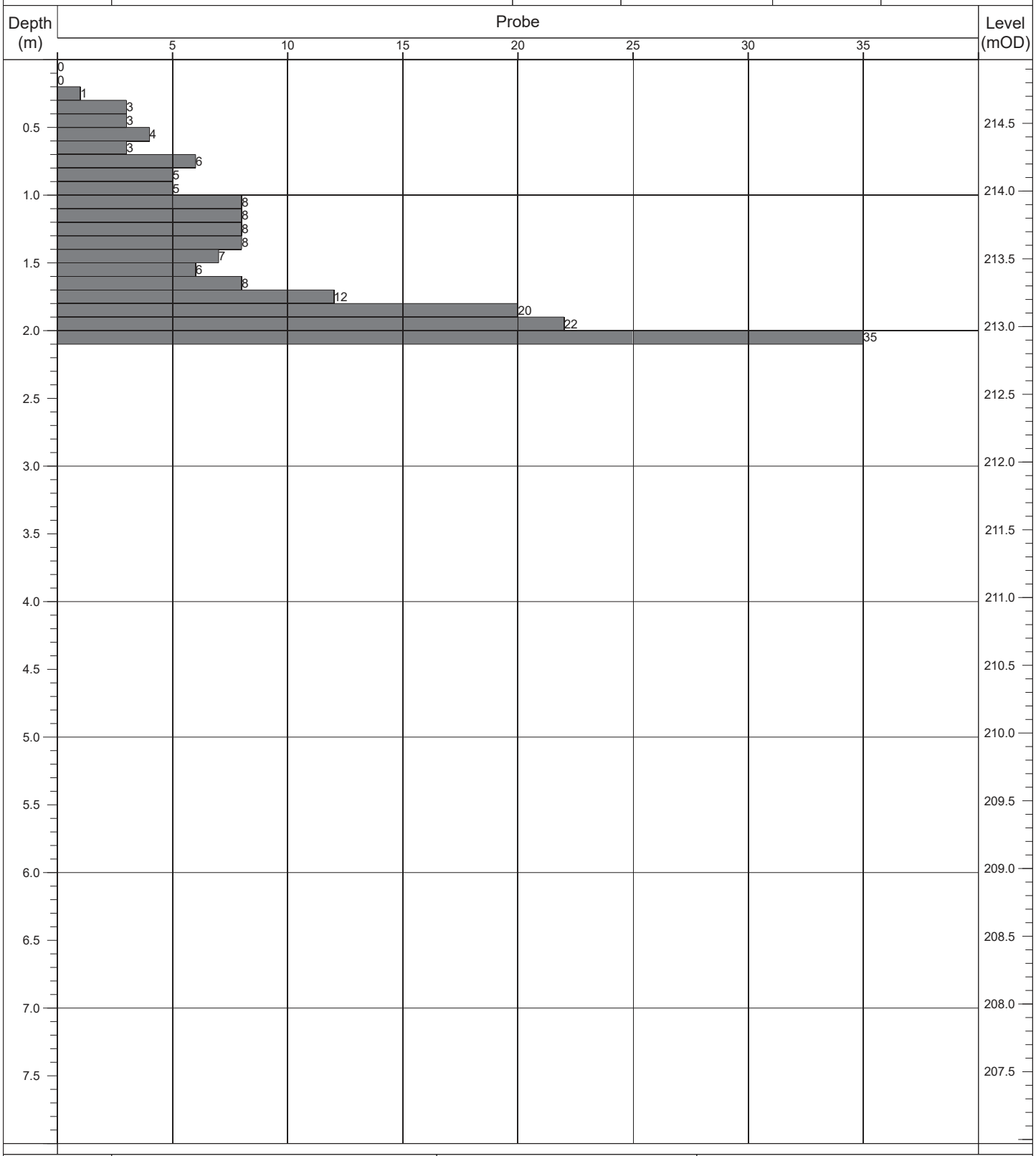
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP210
Contract:	Blessington - Phase 3	Easting:	697670.813	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715269.170	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.13	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



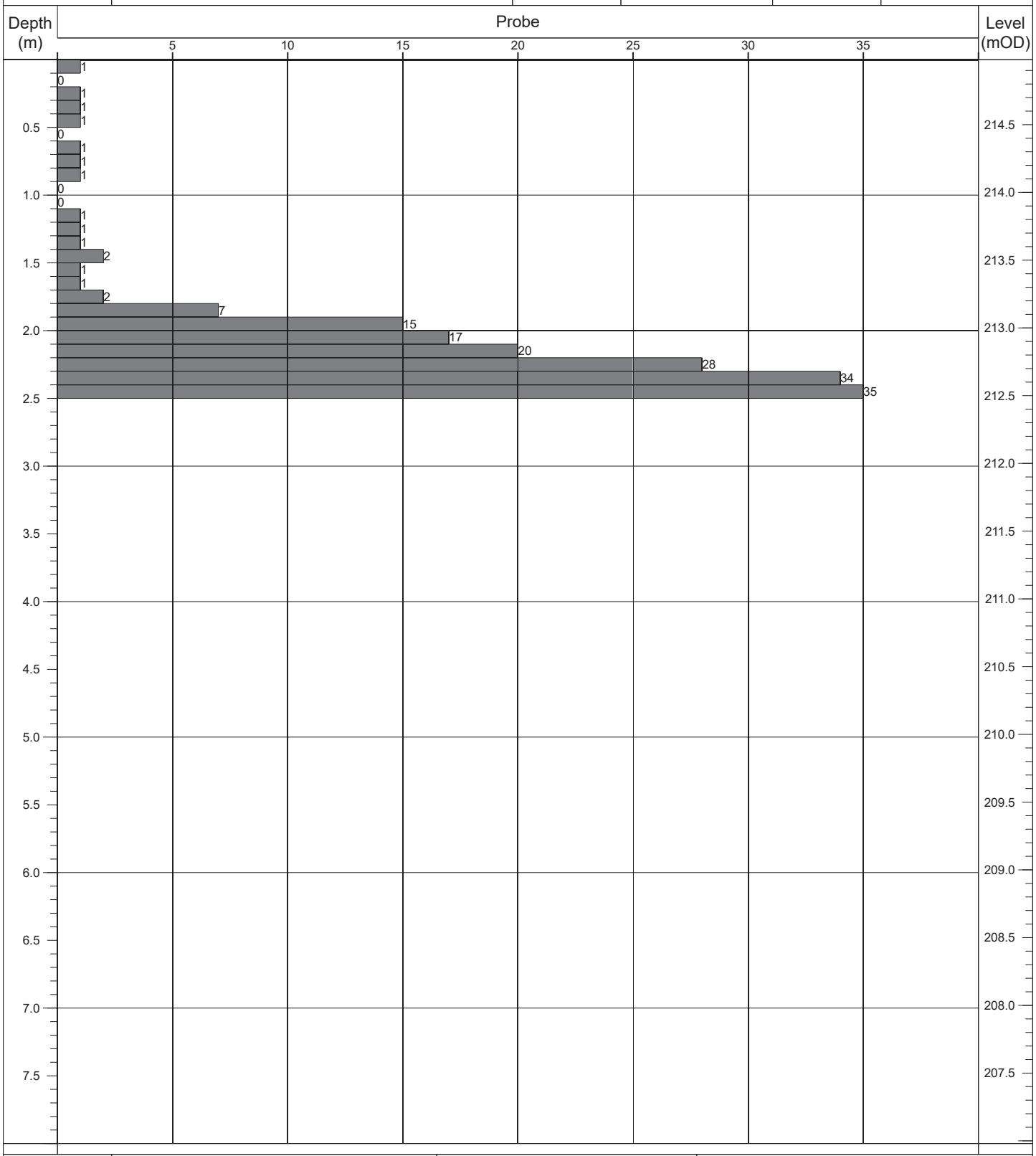
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP211**
Contract:	Blessington - Phase 3	Easting:	697645.305	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715355.287	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.97	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



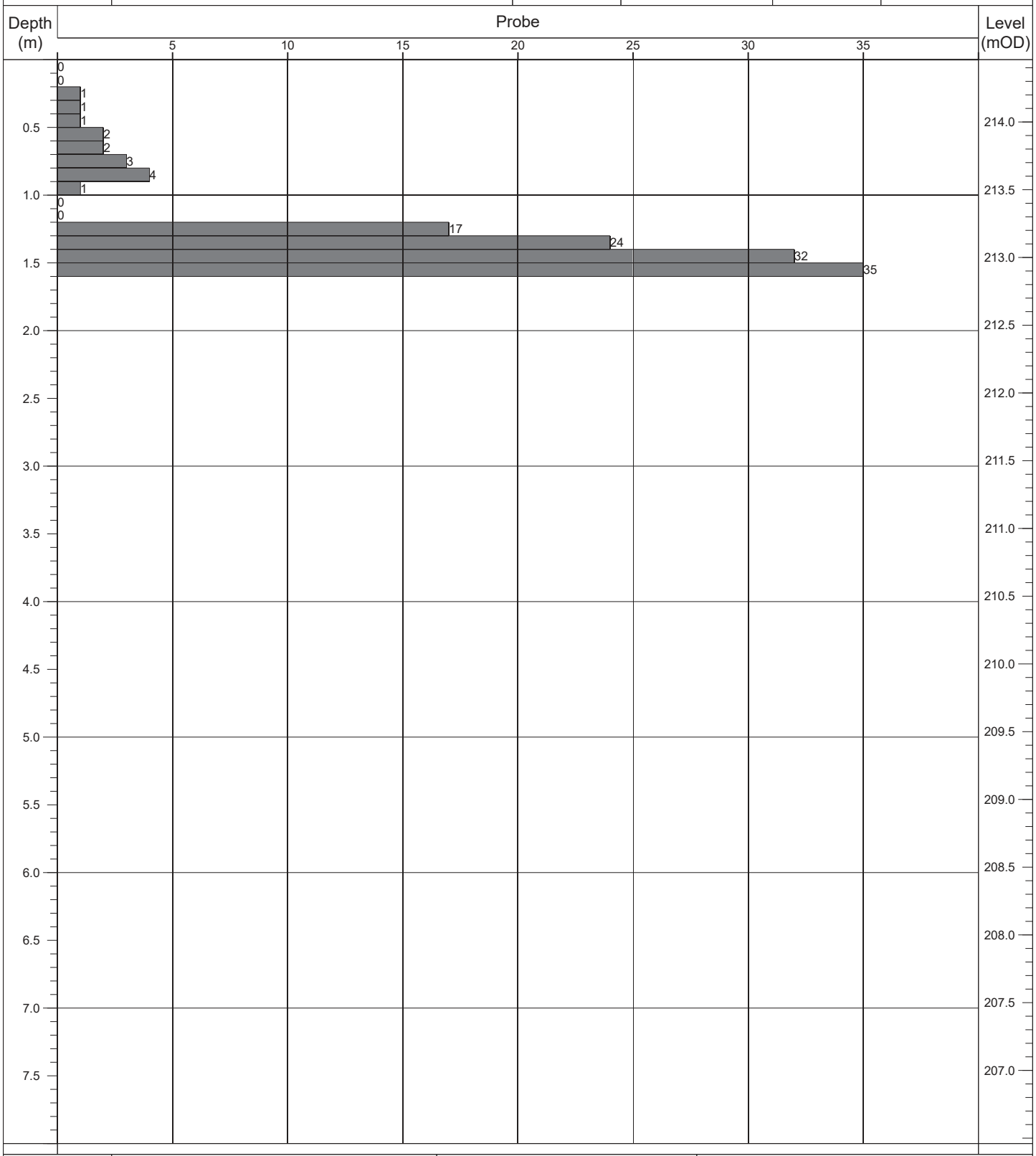
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP212
Contract:	Blessington - Phase 3	Easting:	697650.556	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715350.375	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.98	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



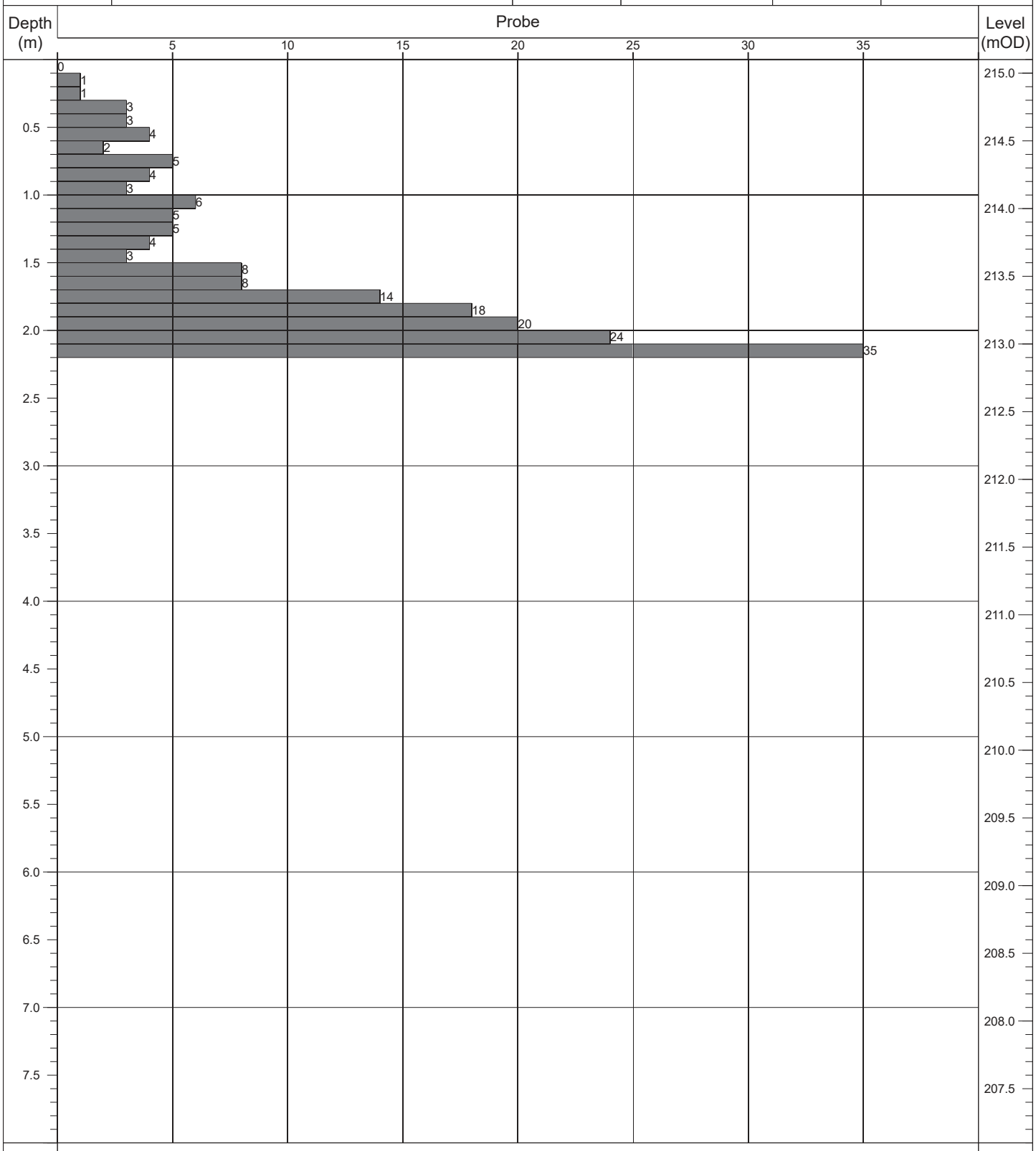
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP213
Contract:	Blessington - Phase 3	Easting:	697638.258	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715313.645	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.46	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



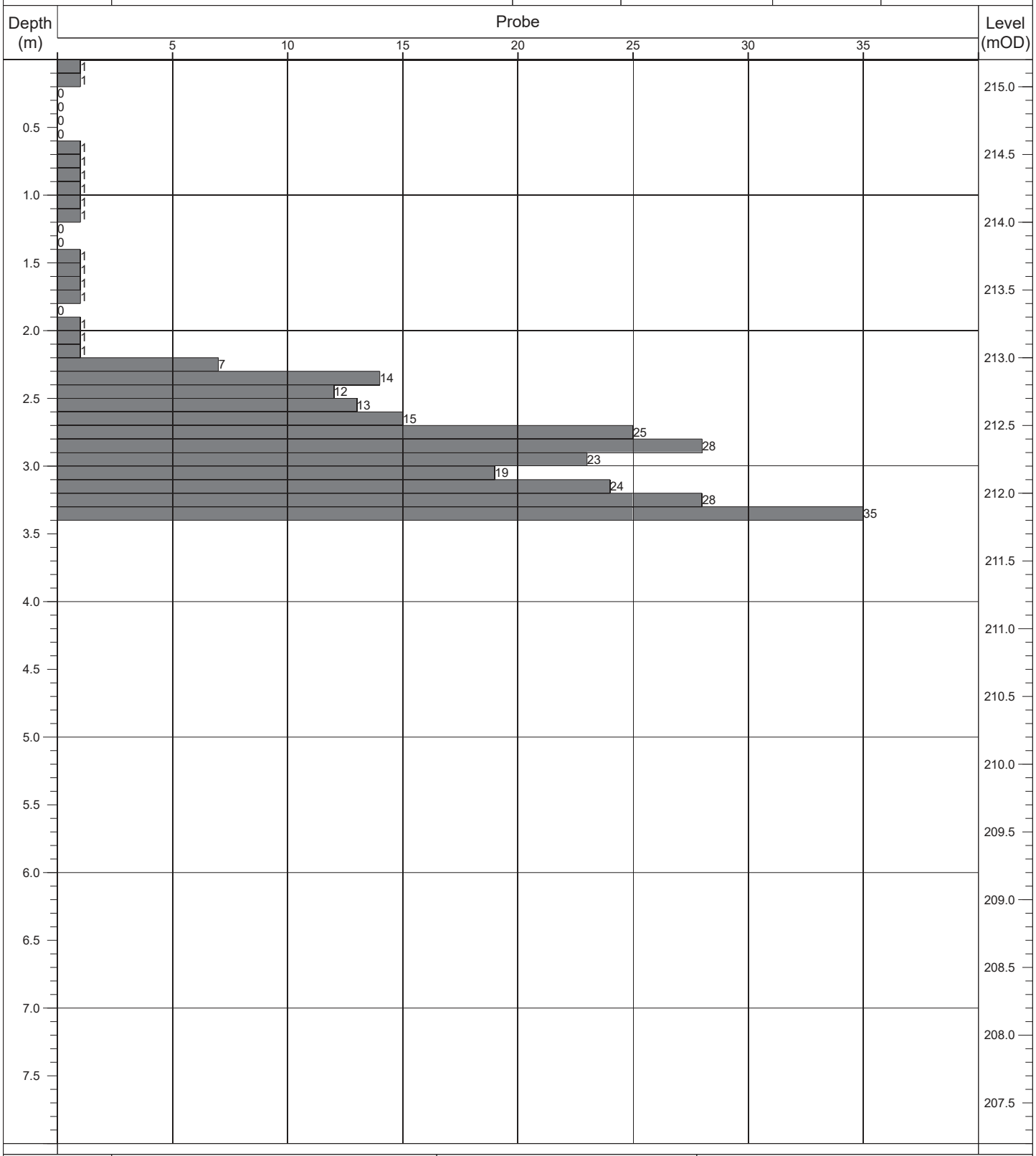
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP214
Contract:	Blessington - Phase 3	Easting:	697641.361	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715360.299	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.10	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



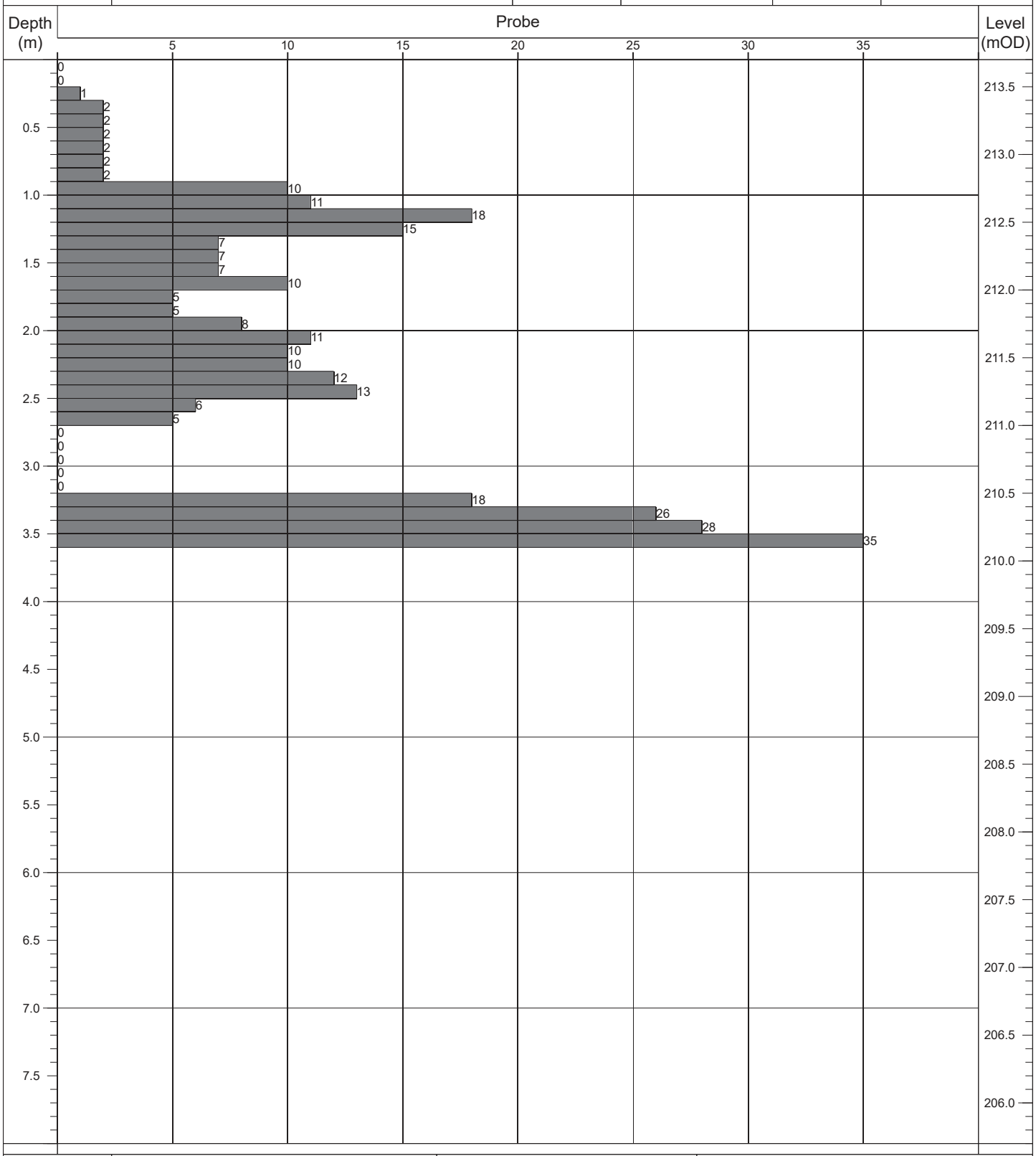
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP215
Contract:	Blessington - Phase 3	Easting:	697662.741	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715338.238	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.20	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



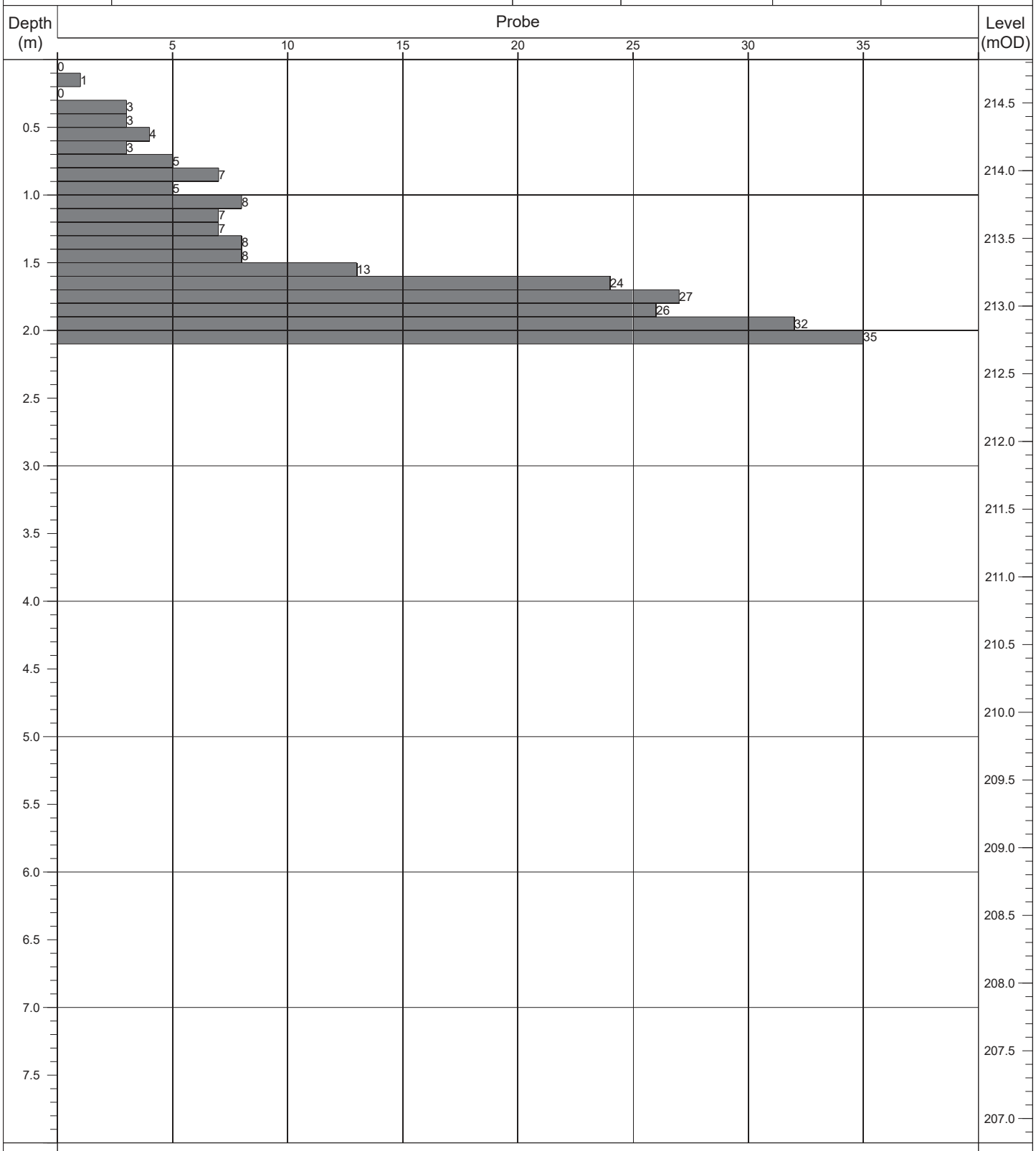
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP216**
Contract:	Blessington - Phase 3	Easting:	697751.560	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715334.329	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	213.70	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



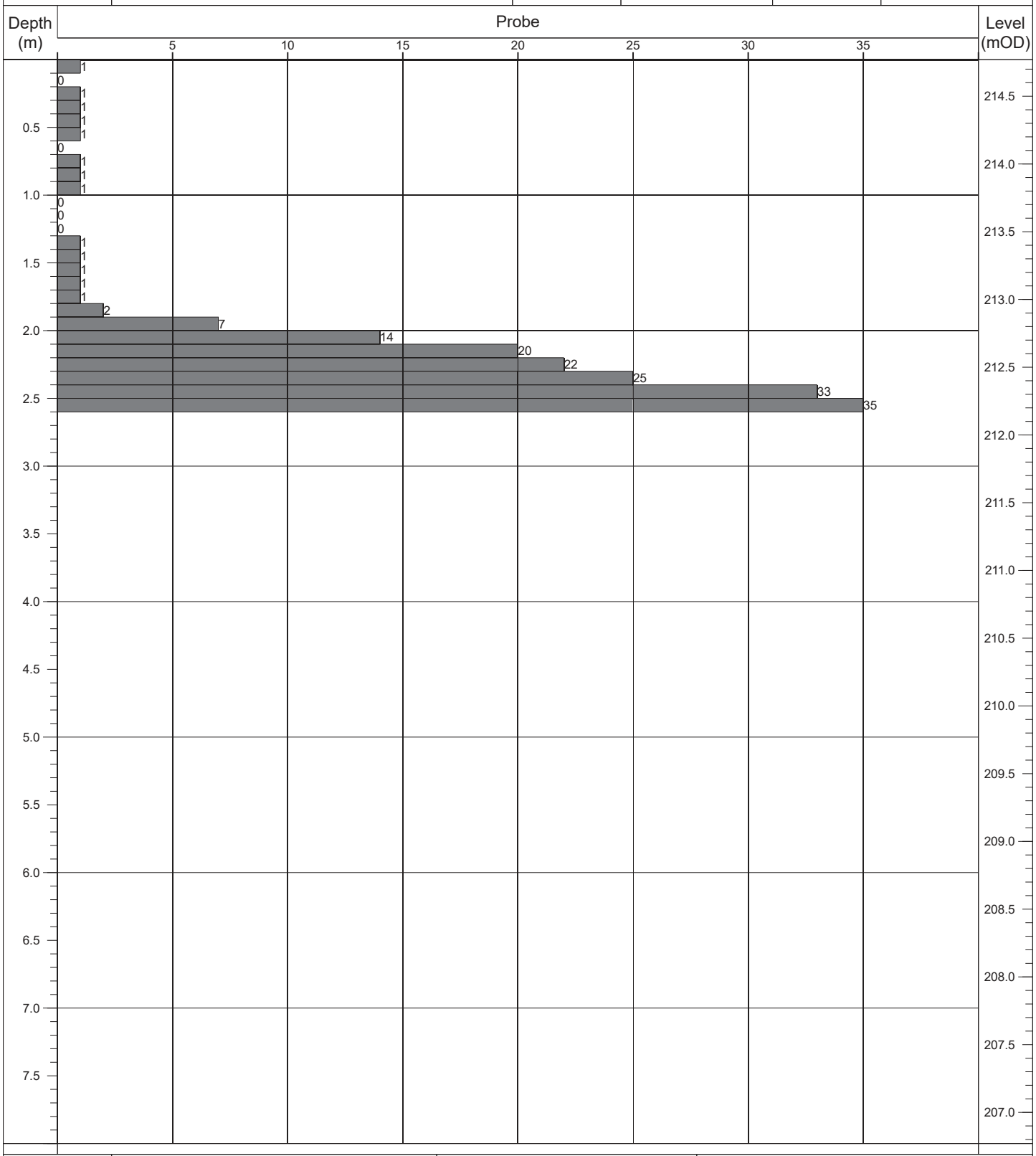
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP217
Contract:	Blessington - Phase 3	Easting:	697655.489	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715345.640	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.82	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



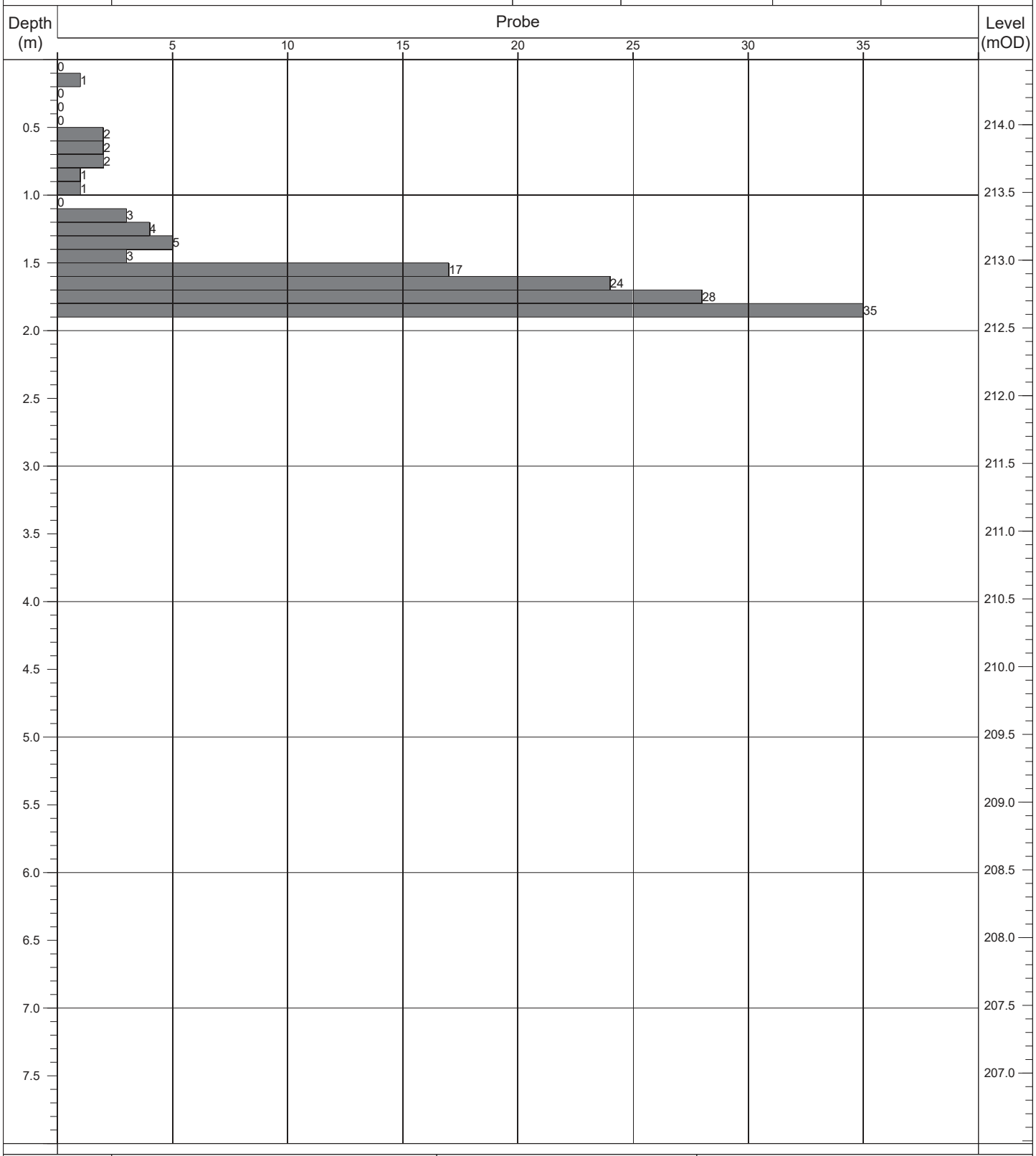
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP218
Contract:	Blessington - Phase 3	Easting:	697658.684	Date Started:	12/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715342.725	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.77	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



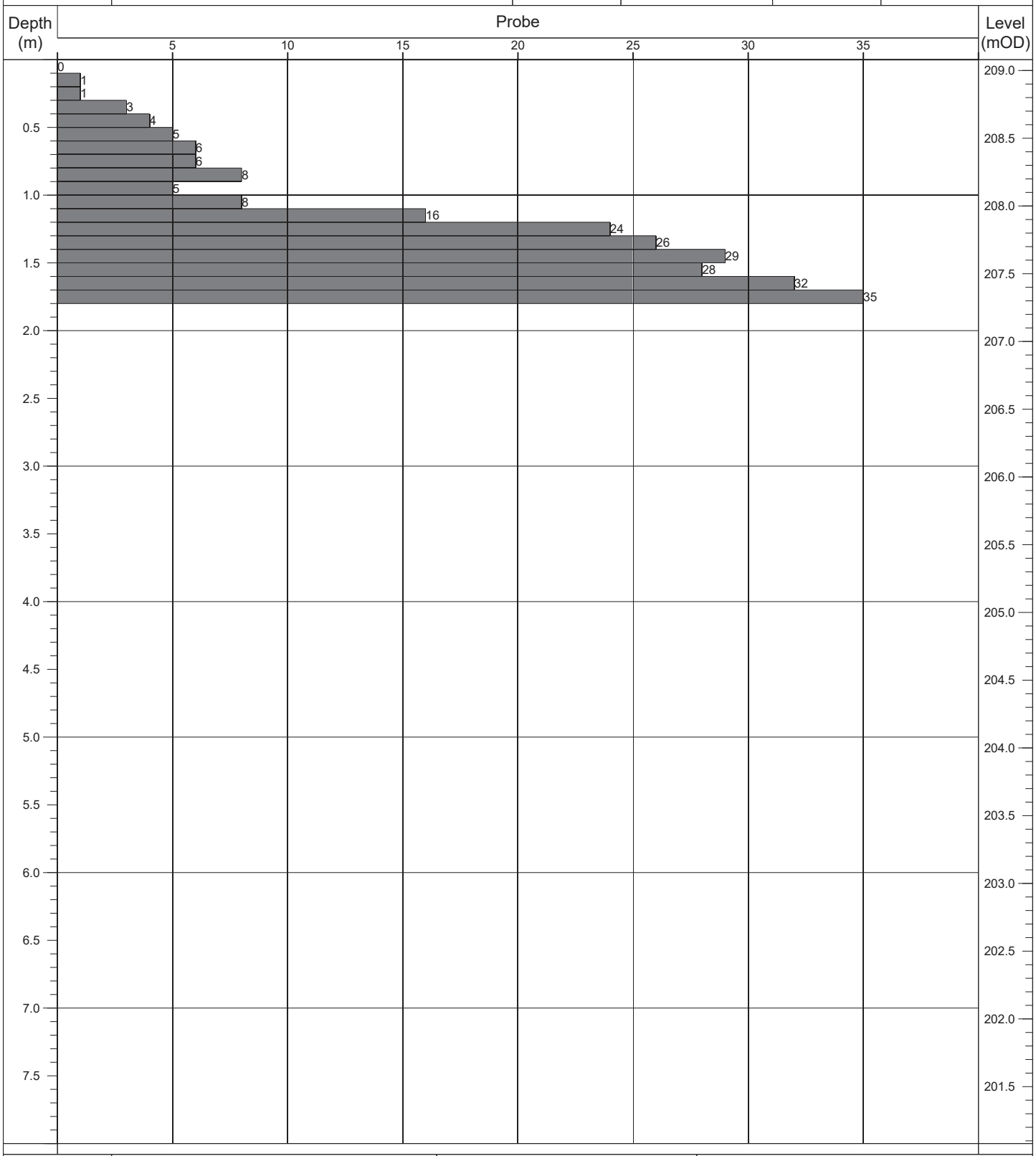
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP219
Contract:	Blessington - Phase 3	Easting:	697633.915	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715317.936	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.48	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



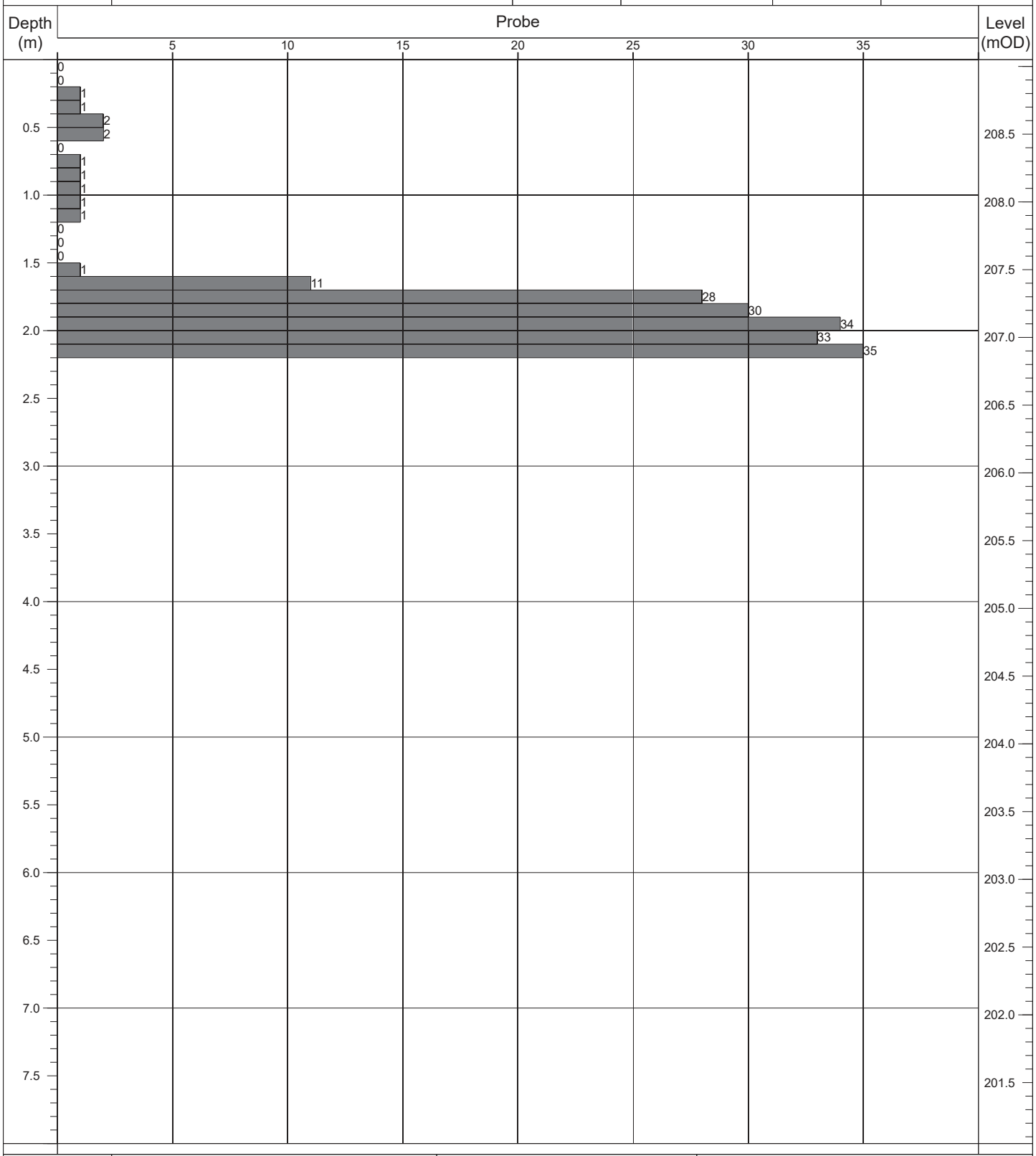
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP220
Contract:	Blessington - Phase 3	Easting:	697733.680	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715187.404	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.08	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



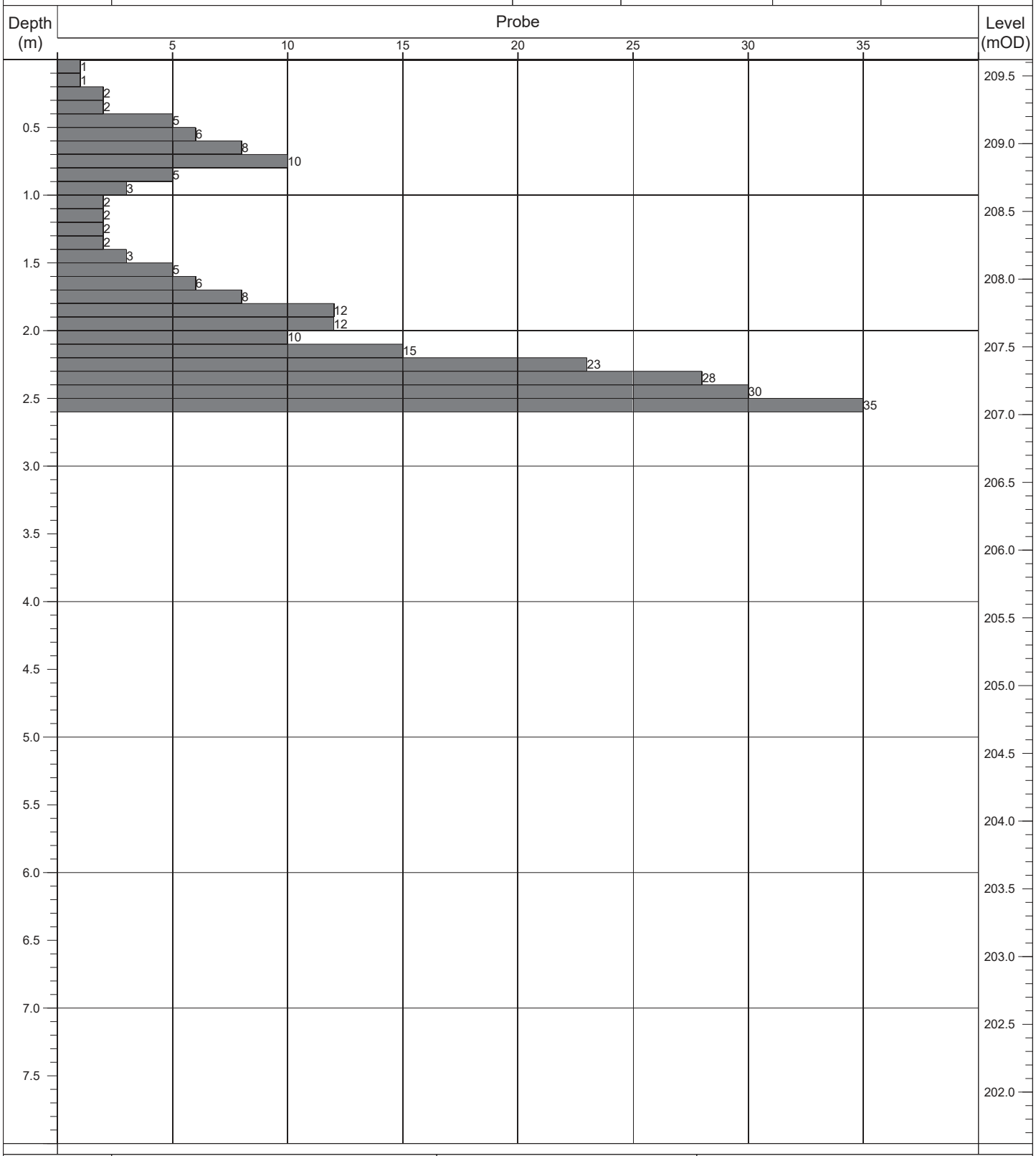
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP221
Contract:	Blessington - Phase 3	Easting:	697730.495	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715182.815	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.05	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



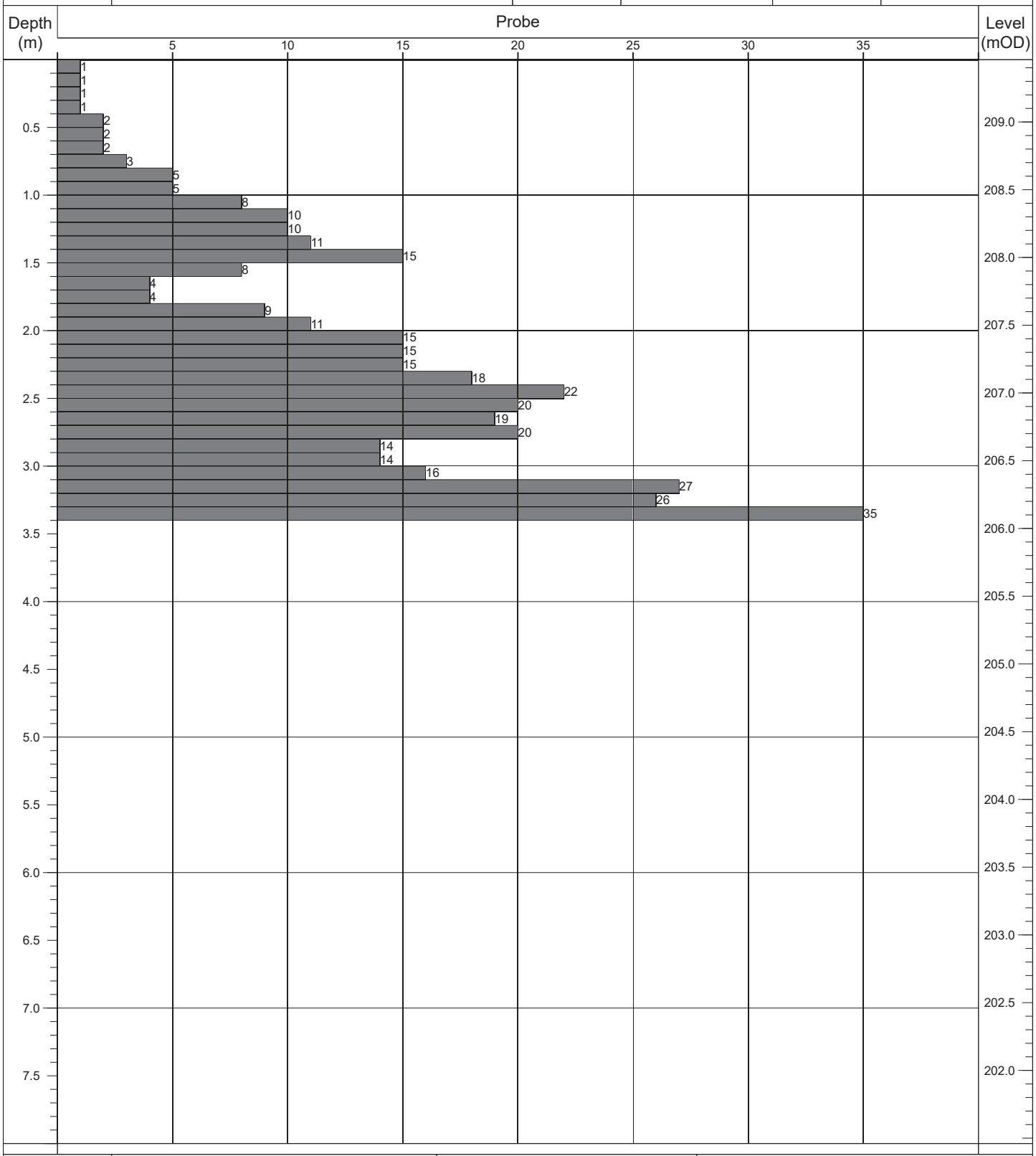
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP222**
Contract:	Blessington - Phase 3	Easting:	697743.158	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715199.095	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.62	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



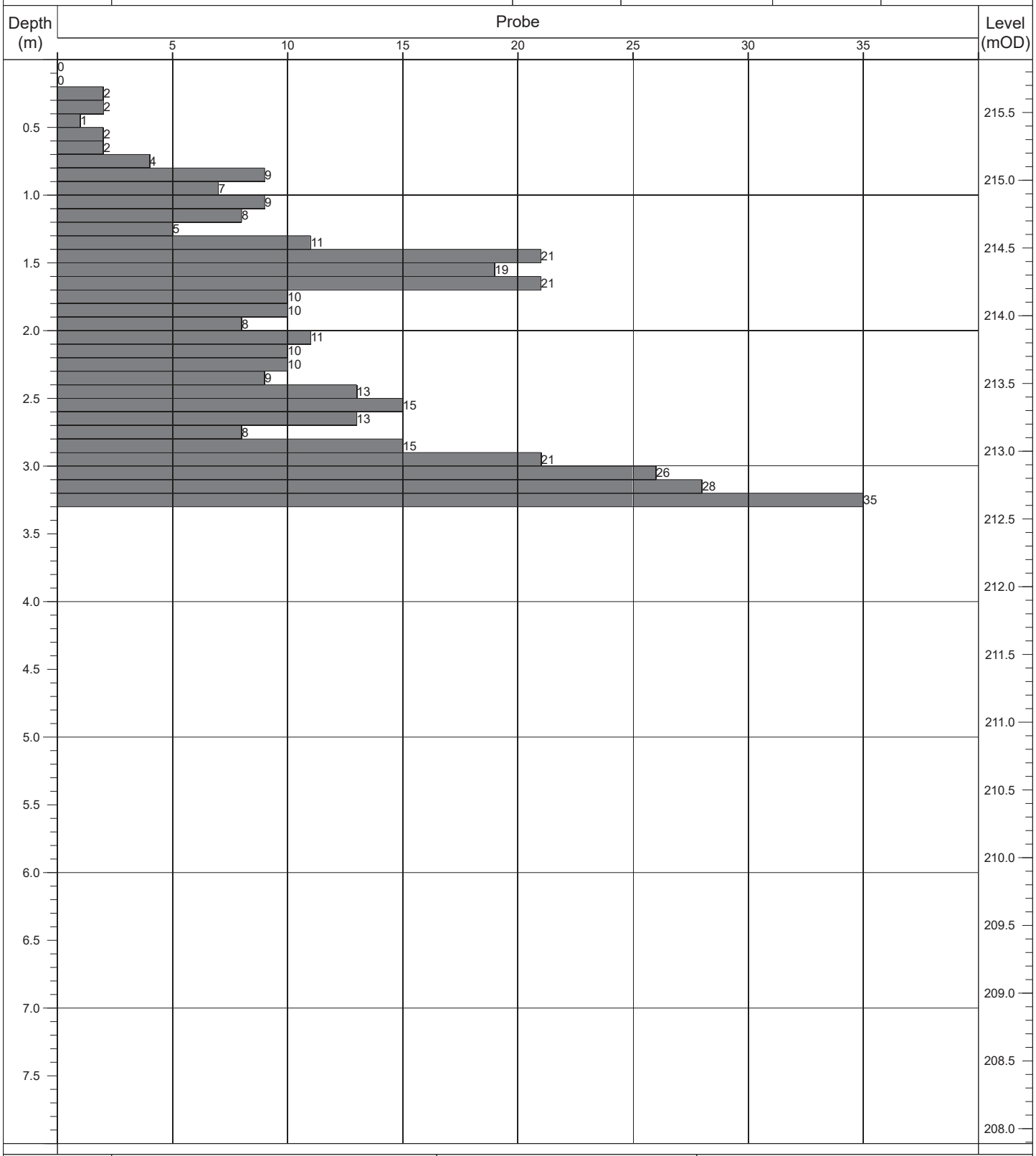
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP223
Contract:	Blessington - Phase 3	Easting:	697739.571	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715195.335	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.46	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



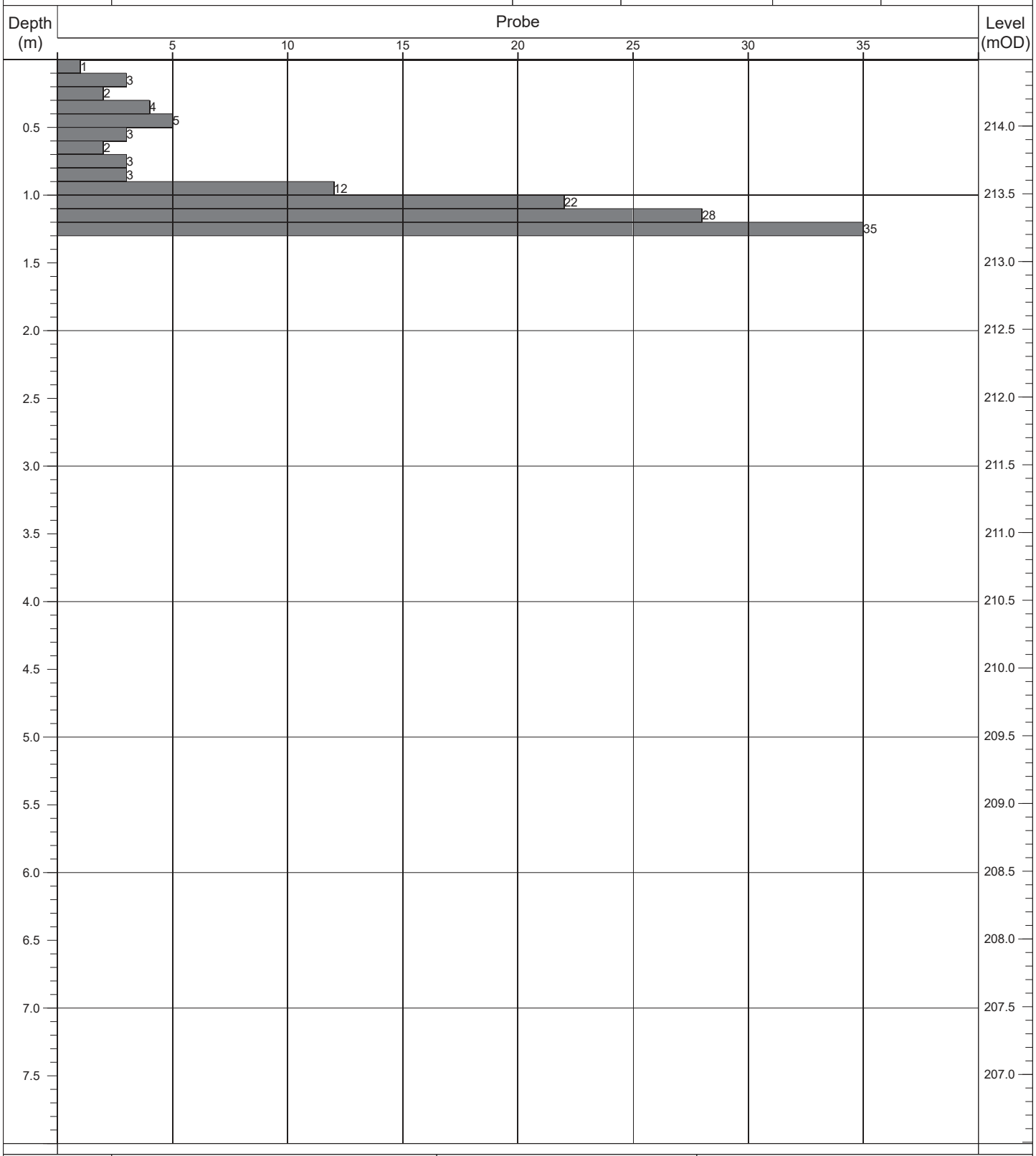
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP232
Contract:	Blessington - Phase 3	Easting:	697712.141	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715409.830	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.89	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



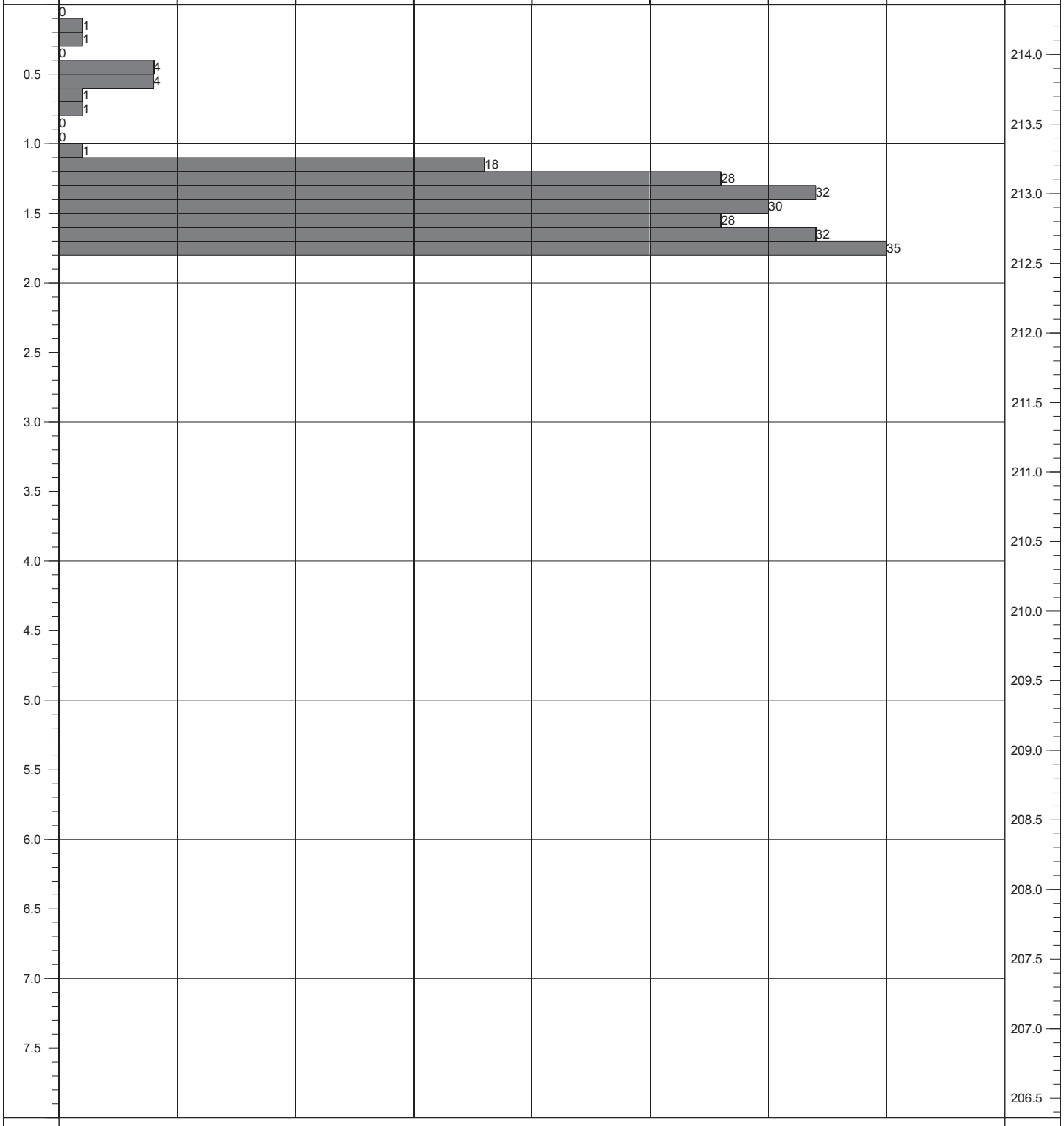
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP224
Contract:	Blessington - Phase 3	Easting:	697626.004	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715325.413	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.49	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



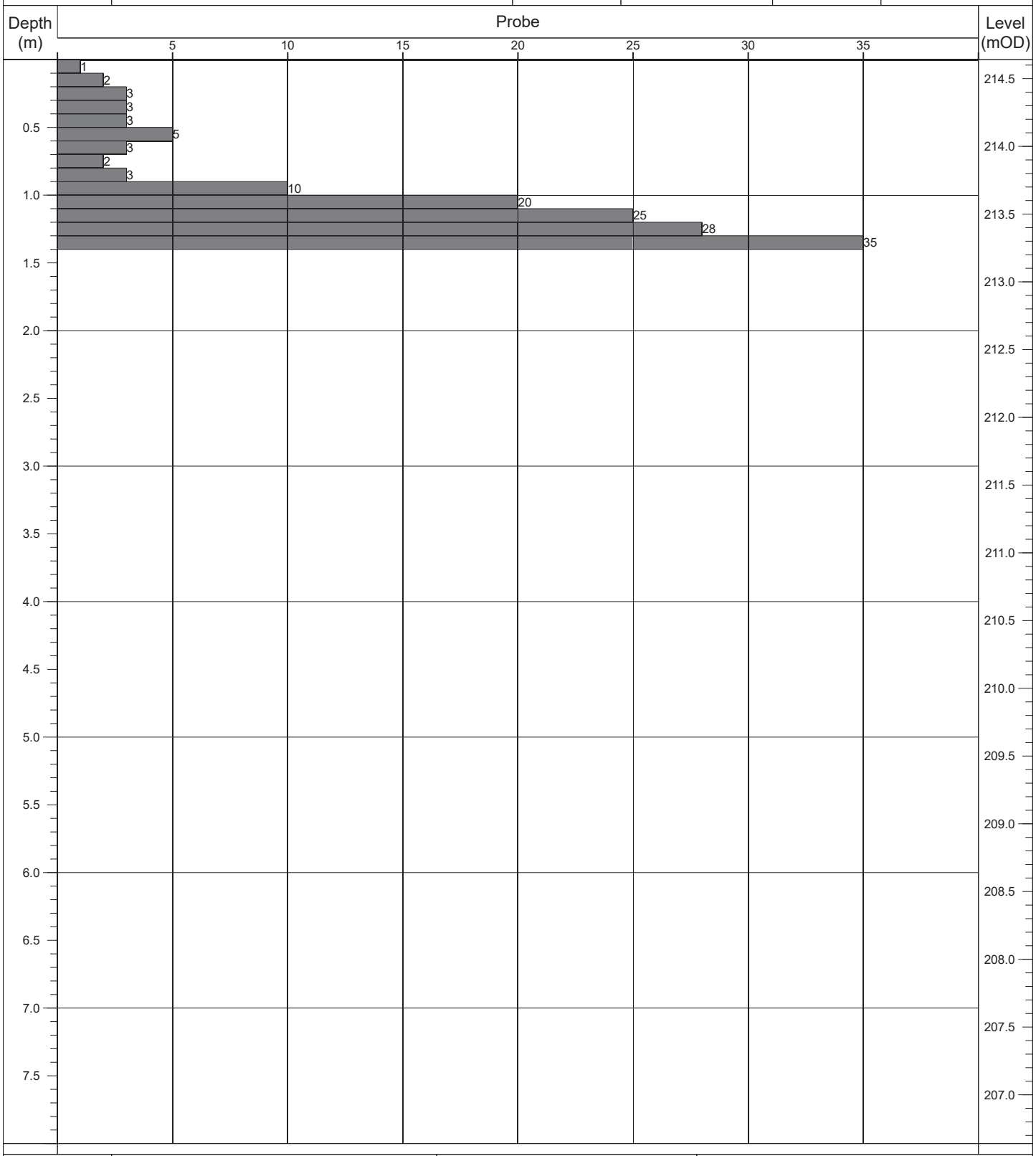
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP225**
Contract:	Blessington - Phase 3	Easting:	697630.386	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715321.045	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.36	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



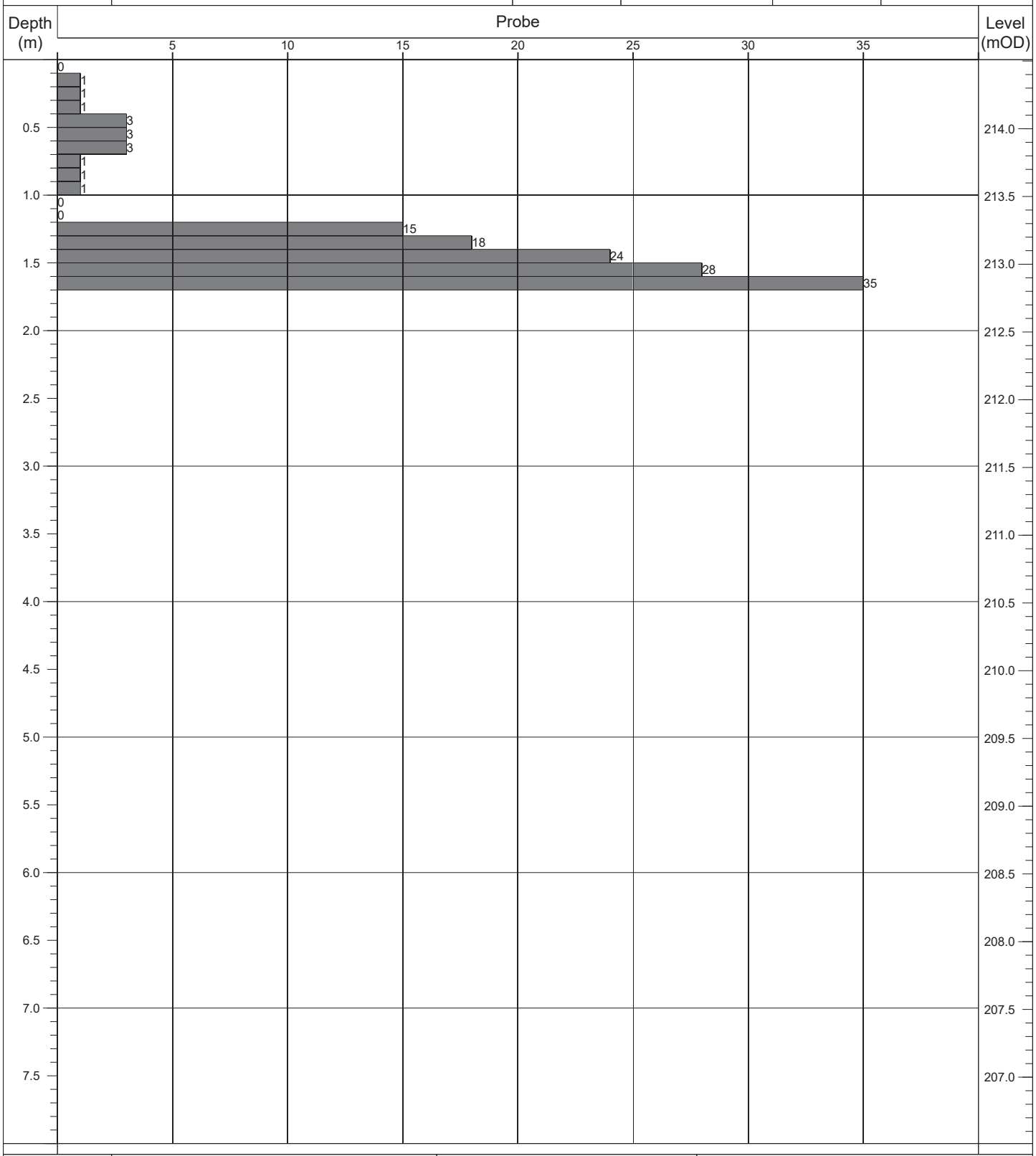
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP226
Contract:	Blessington - Phase 3	Easting:	697616.432	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715335.202	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.64	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



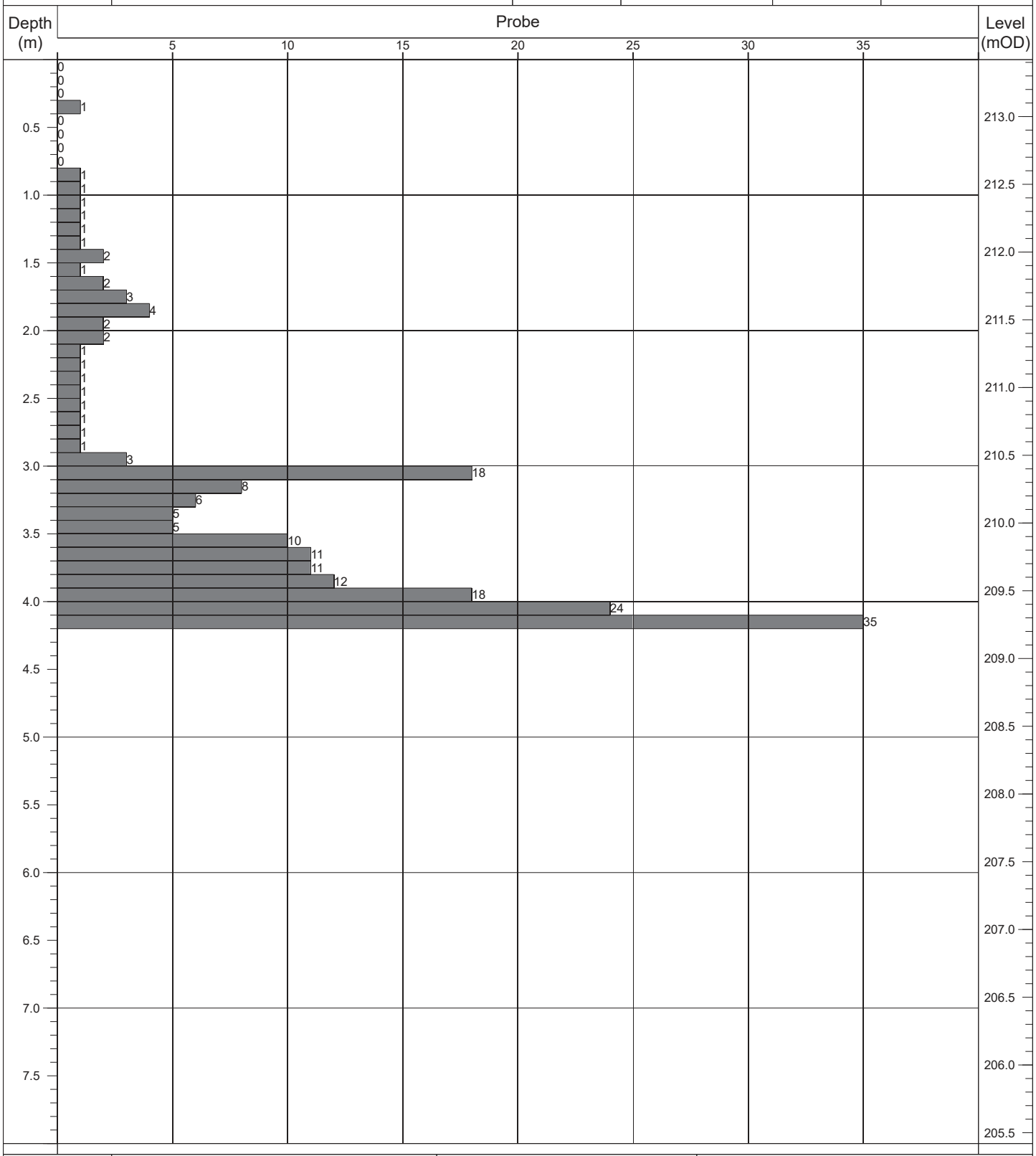
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP227
Contract:	Blessington - Phase 3	Easting:	697620.935	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715330.875	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.51	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



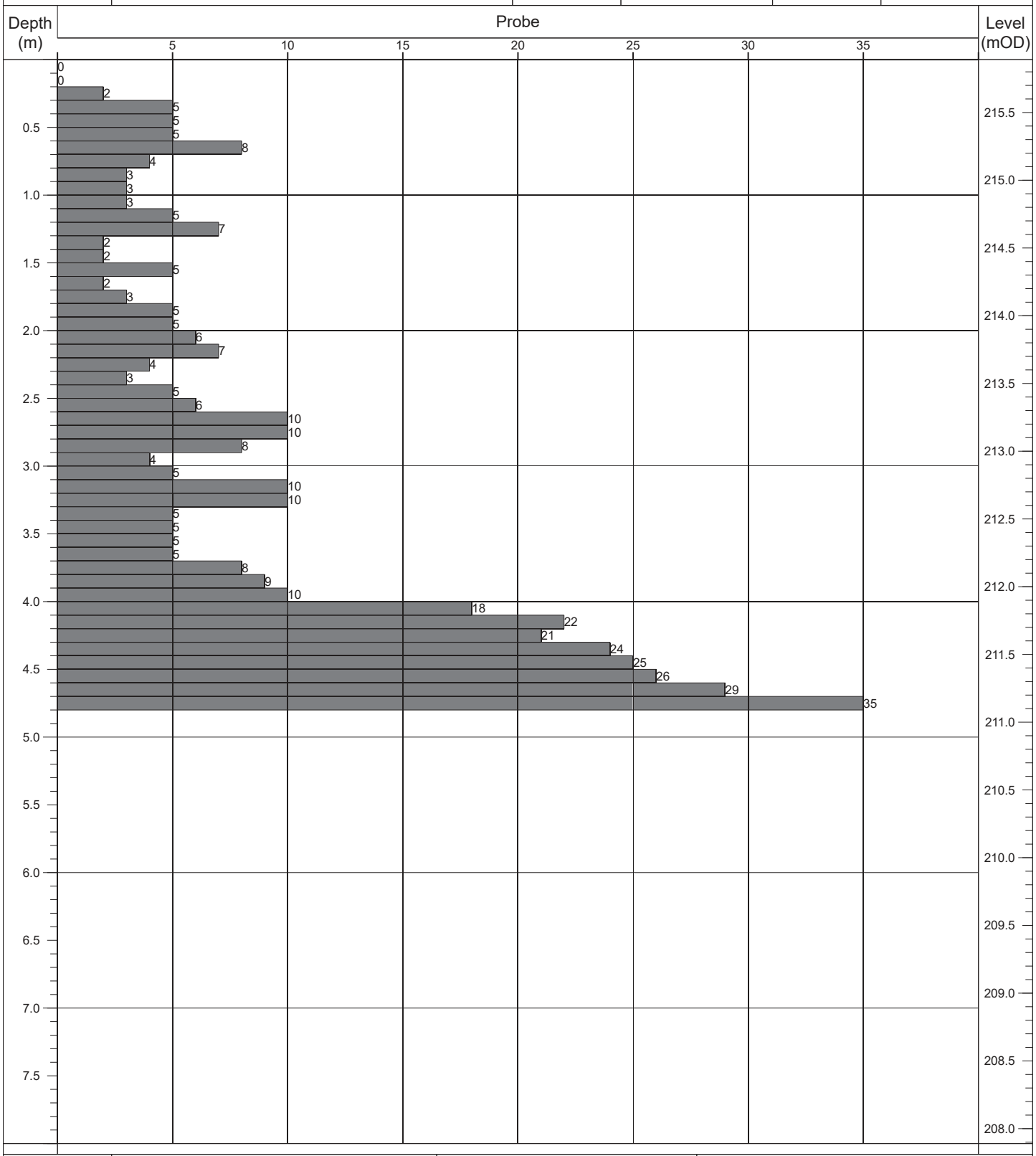
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP228
Contract:	Blessington - Phase 3	Easting:	697771.832	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715428.567	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	213.42	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



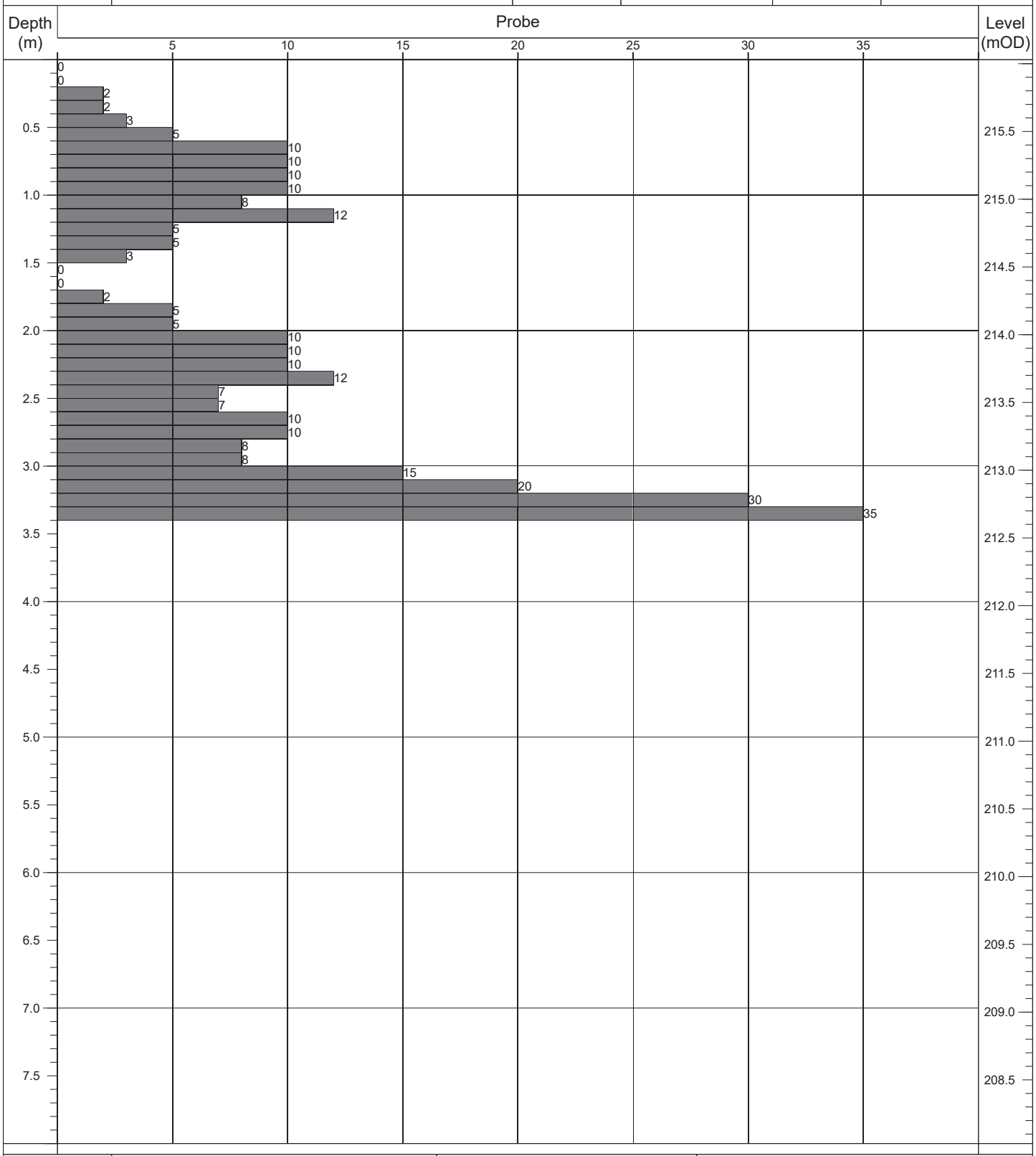
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP229
Contract:	Blessington - Phase 3	Easting:	697715.698	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715413.388	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.89	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



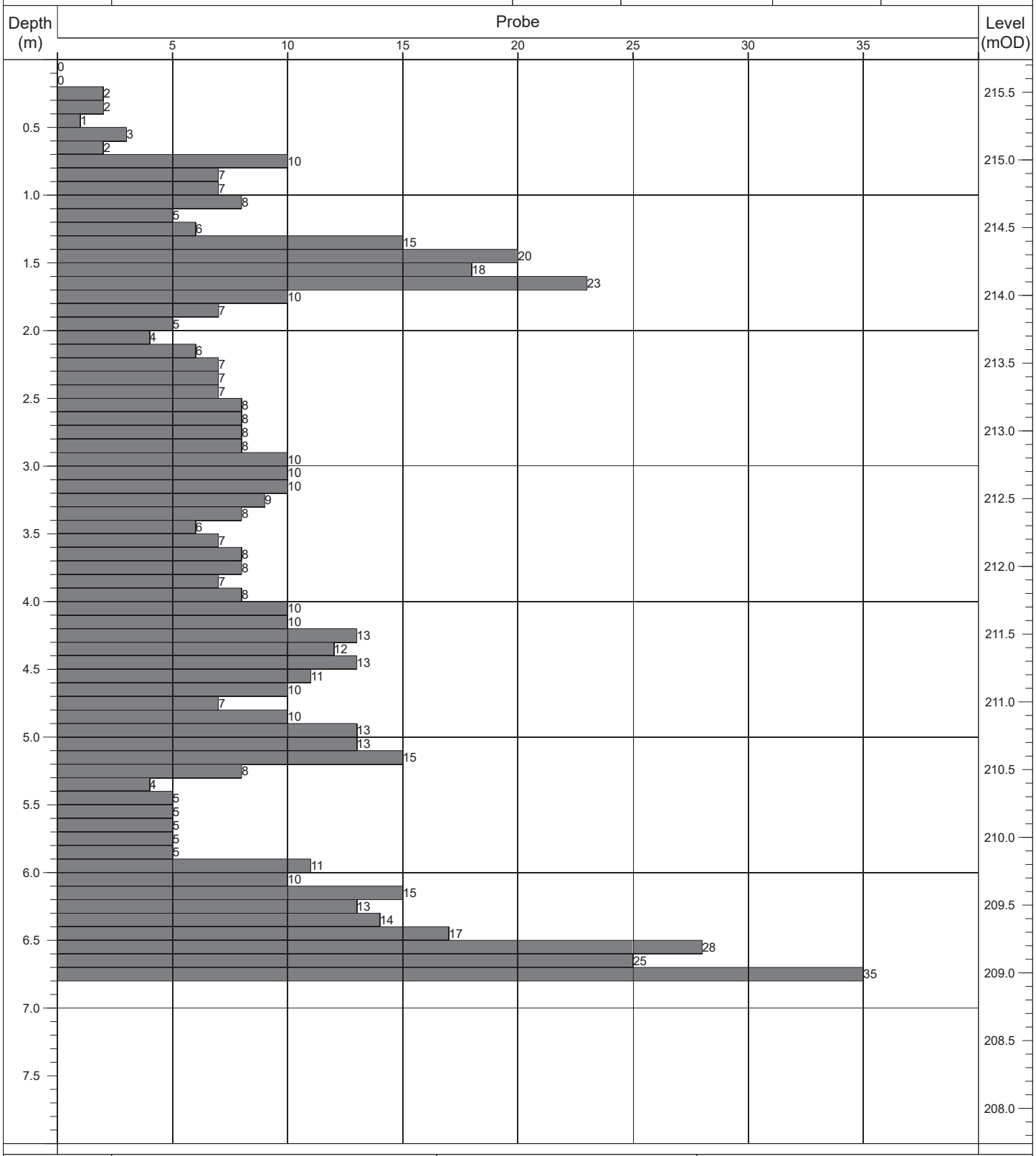
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP230
Contract:	Blessington - Phase 3	Easting:	697721.527	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715419.470	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	216.03	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



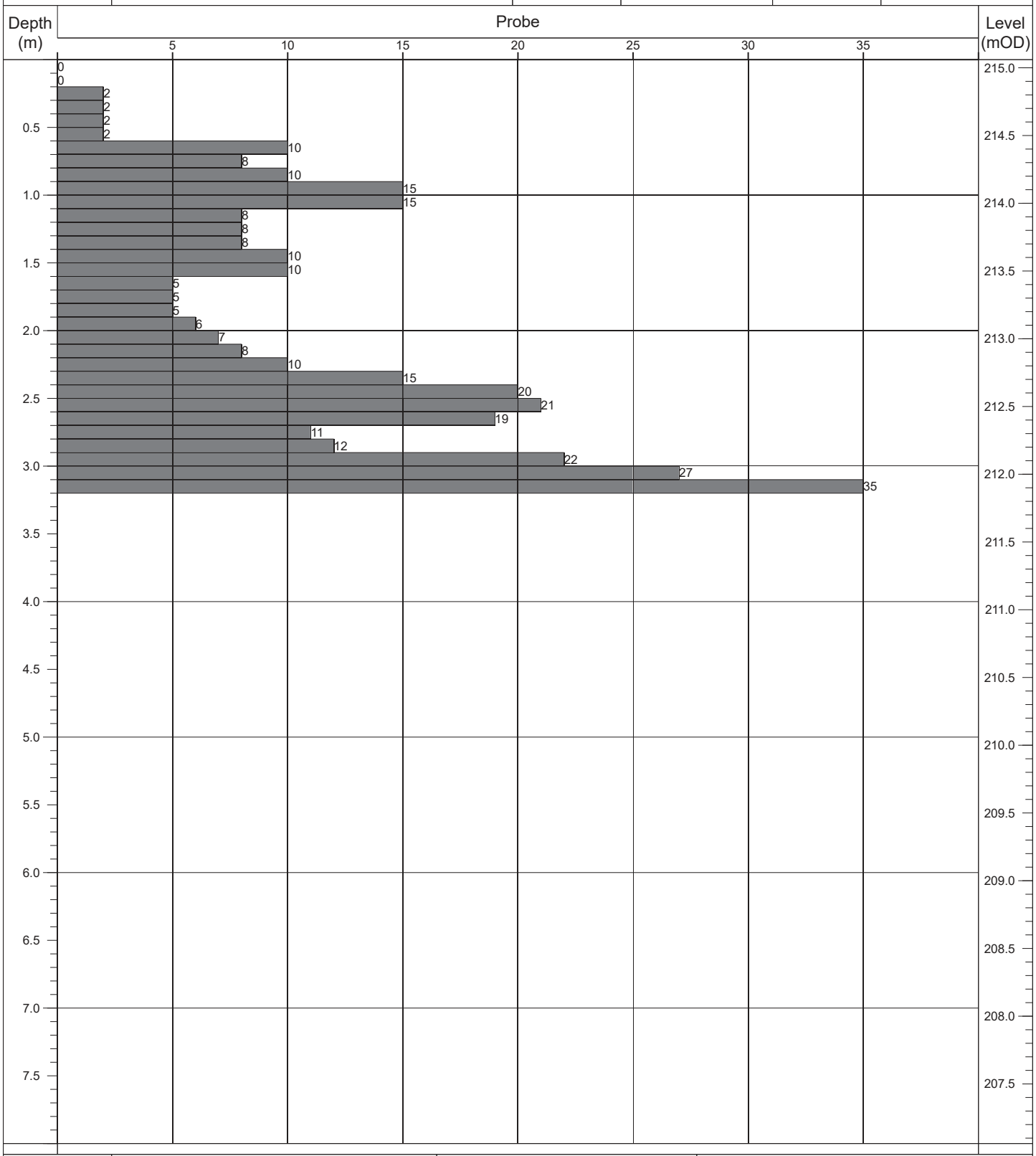
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP231**
Contract:	Blessington - Phase 3	Easting:	697707.731	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715405.582	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.74	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



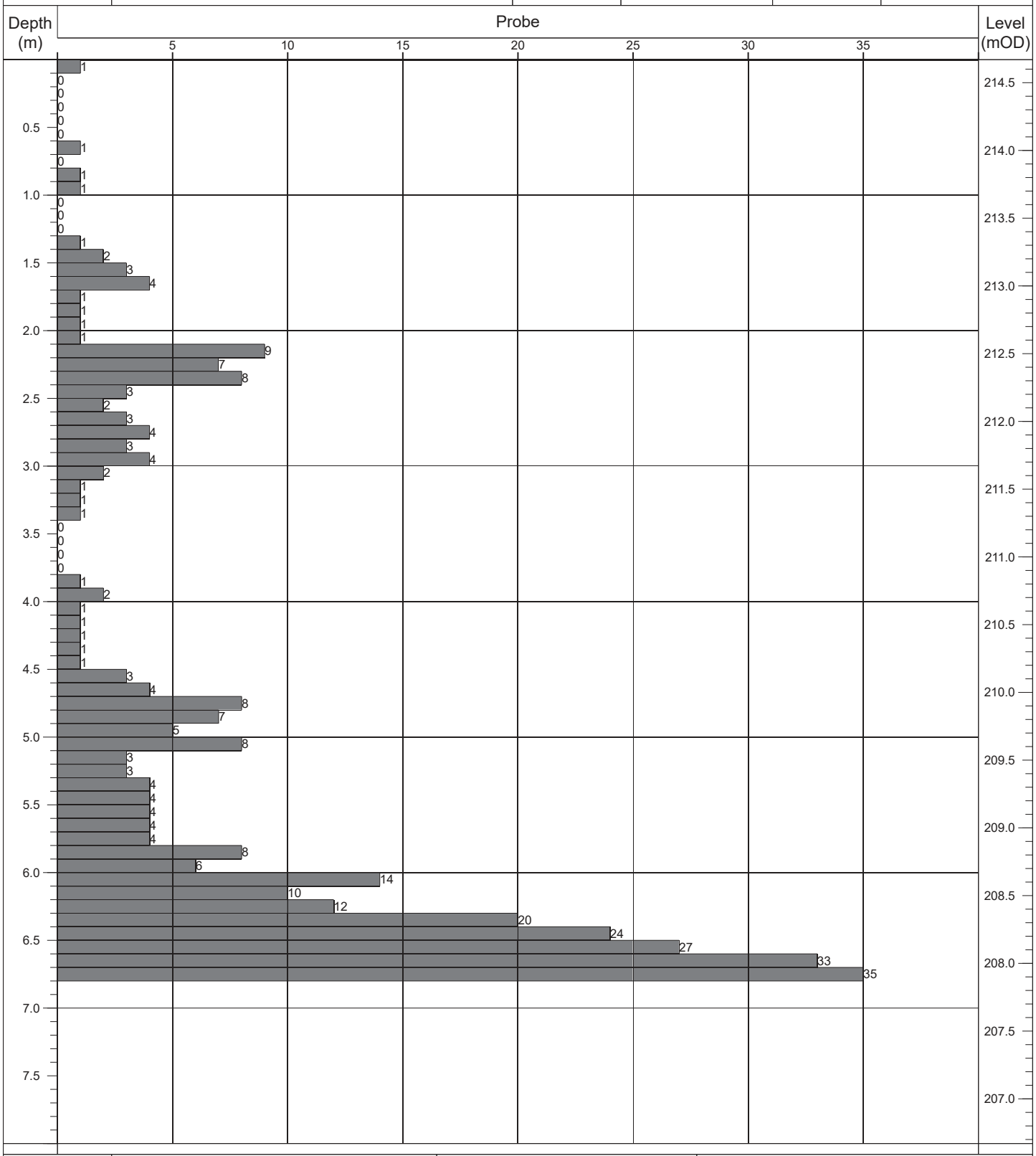
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP233
Contract:	Blessington - Phase 3	Easting:	697734.428	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715432.397	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.06	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



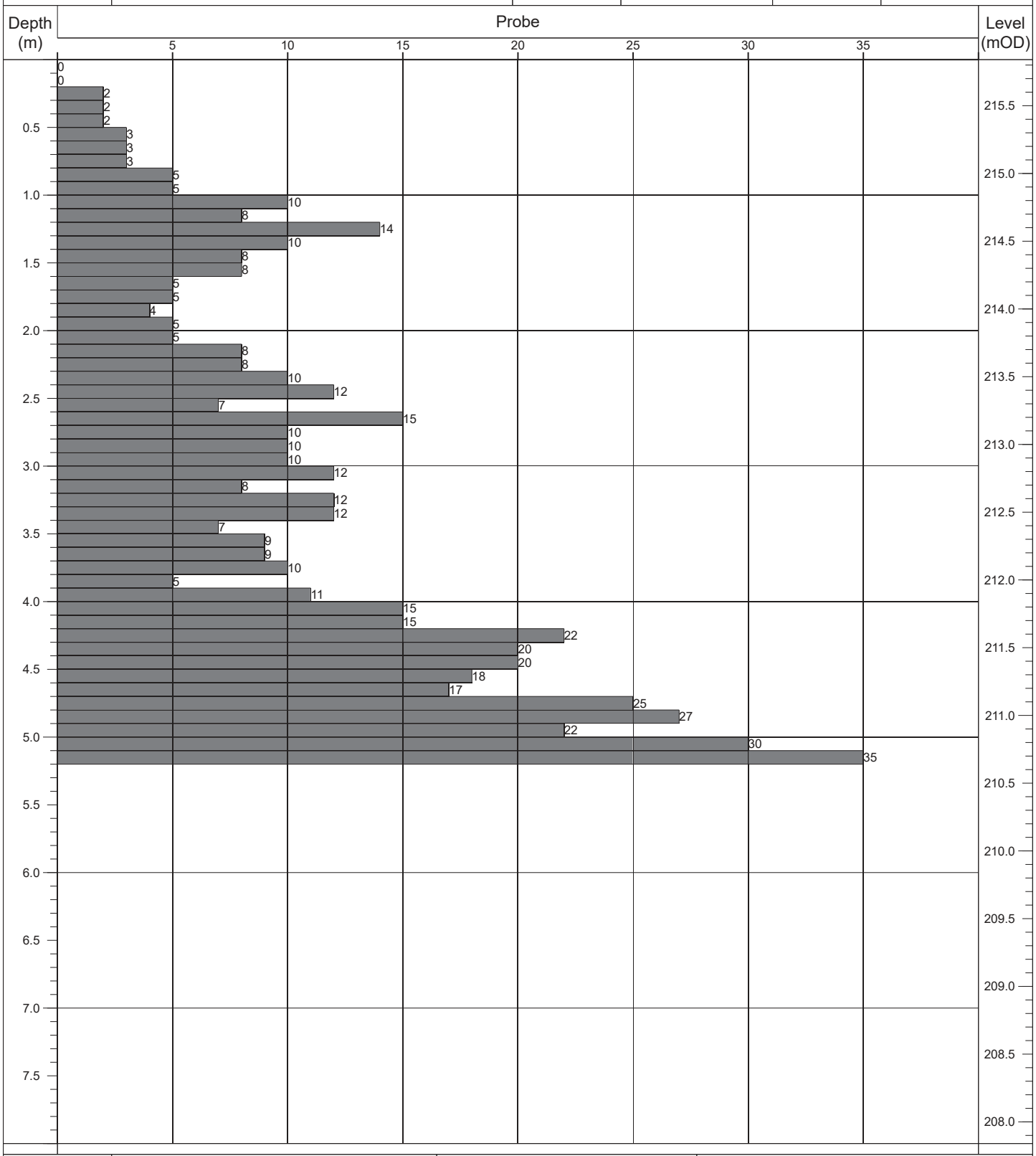
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP234
Contract:	Blessington - Phase 3	Easting:	697744.547	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715455.141	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	214.67	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



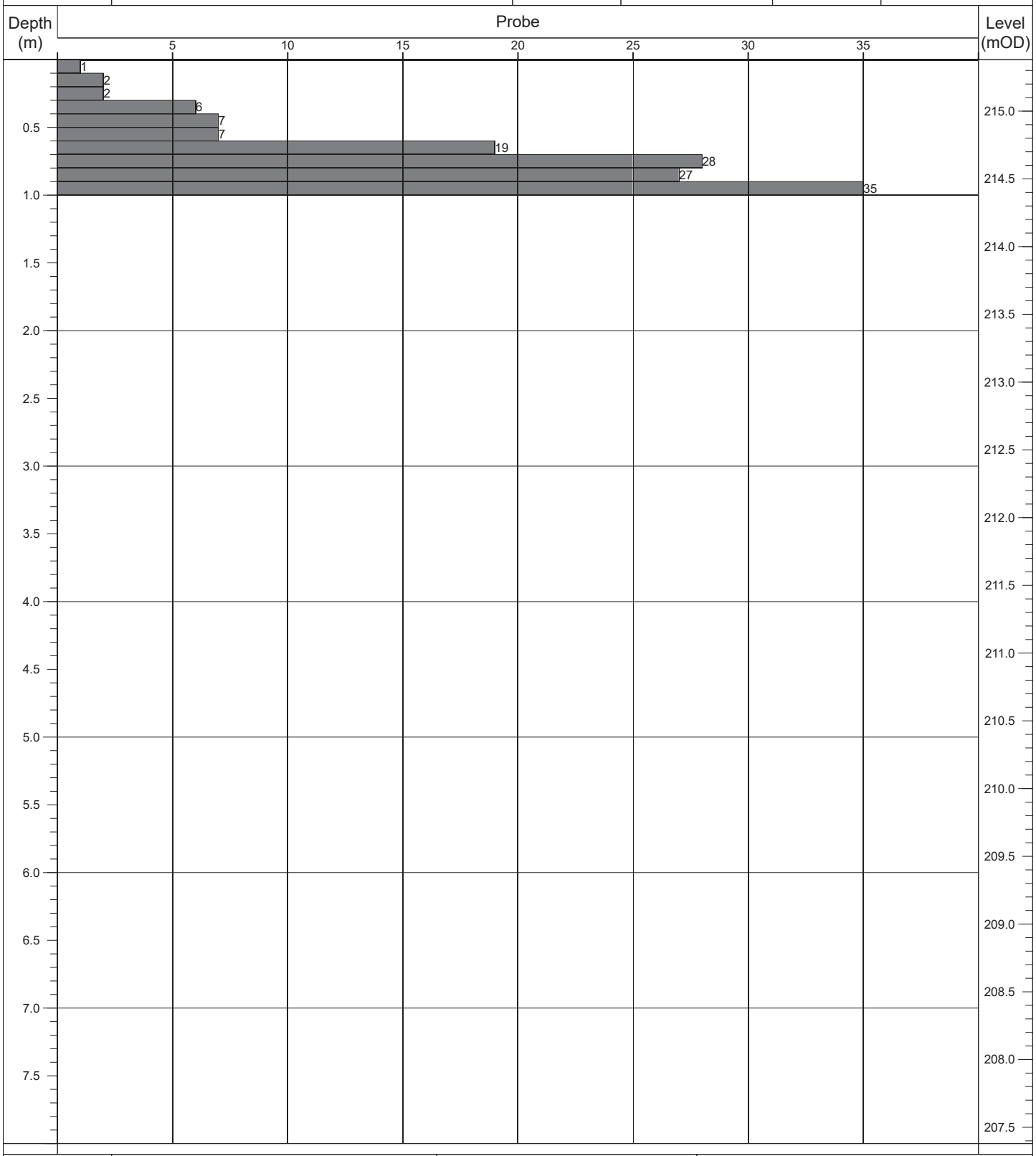
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP235**
Contract:	Blessington - Phase 3	Easting:	697725.155	Date Started:	16/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715422.883	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	215.84	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



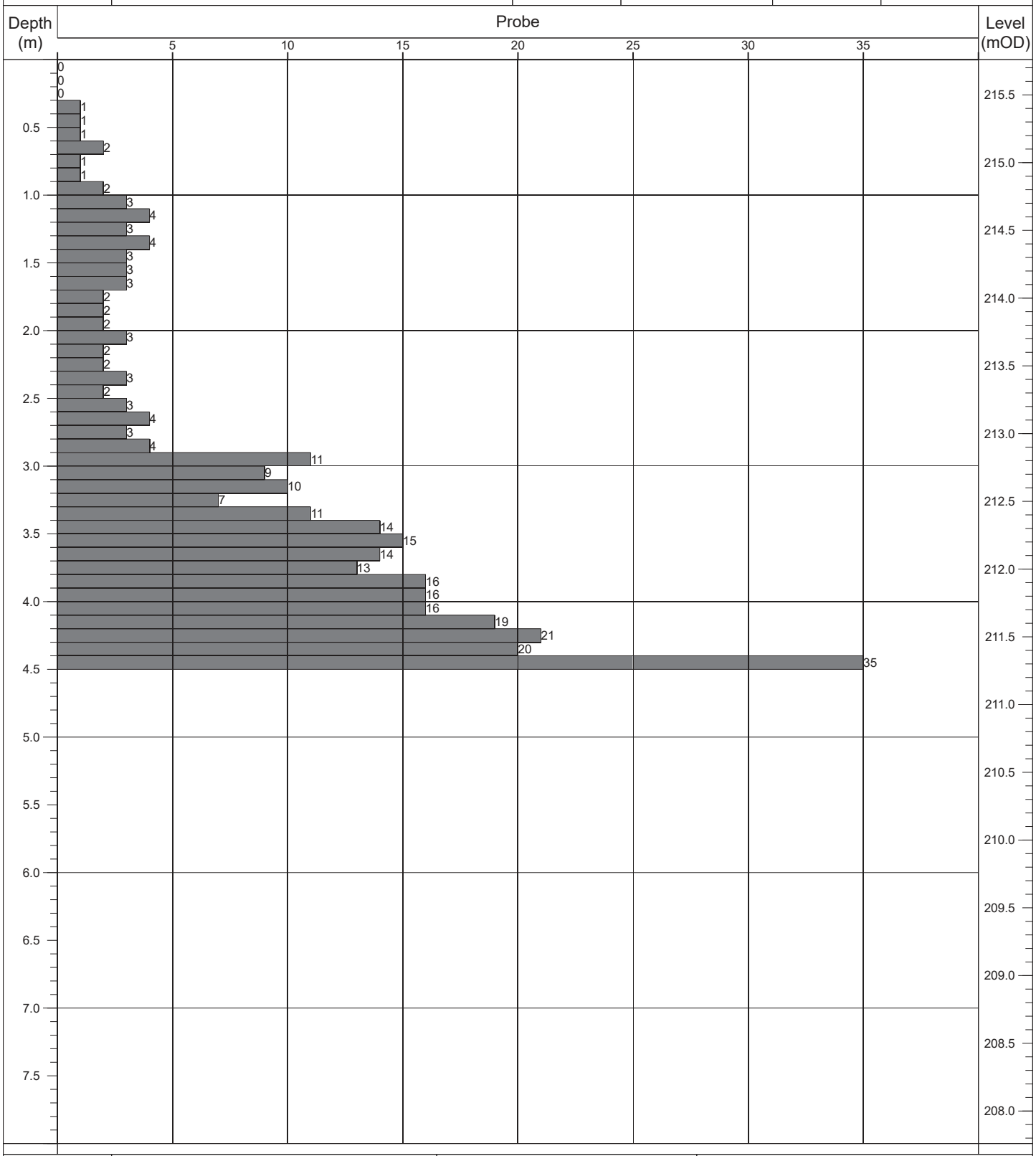
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP236
Contract:	Blessington - Phase 3	Easting:	697729.238	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715427.231	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.38	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



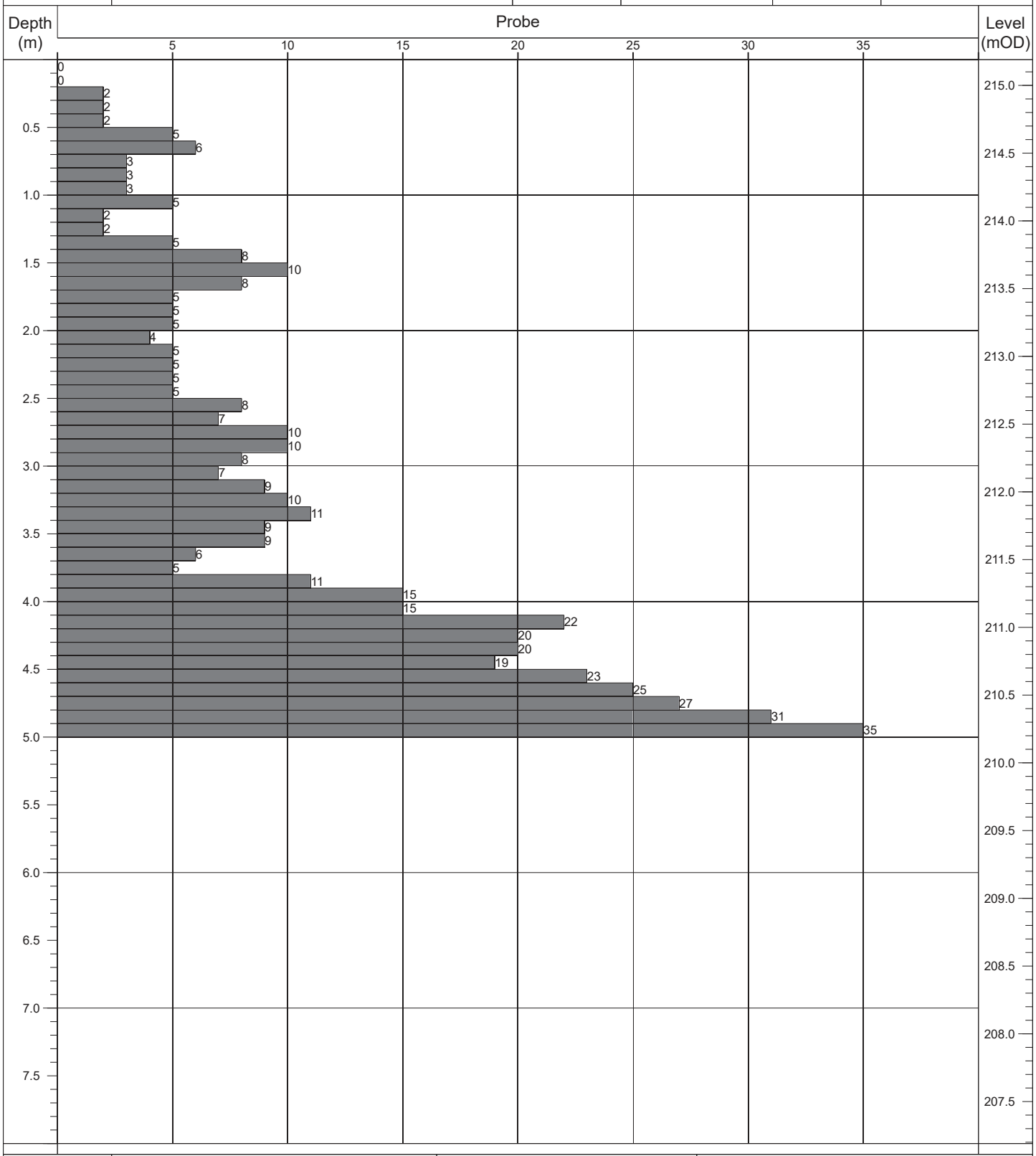
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP237
Contract:	Blessington - Phase 3	Easting:	697703.798	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715401.573	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.76	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



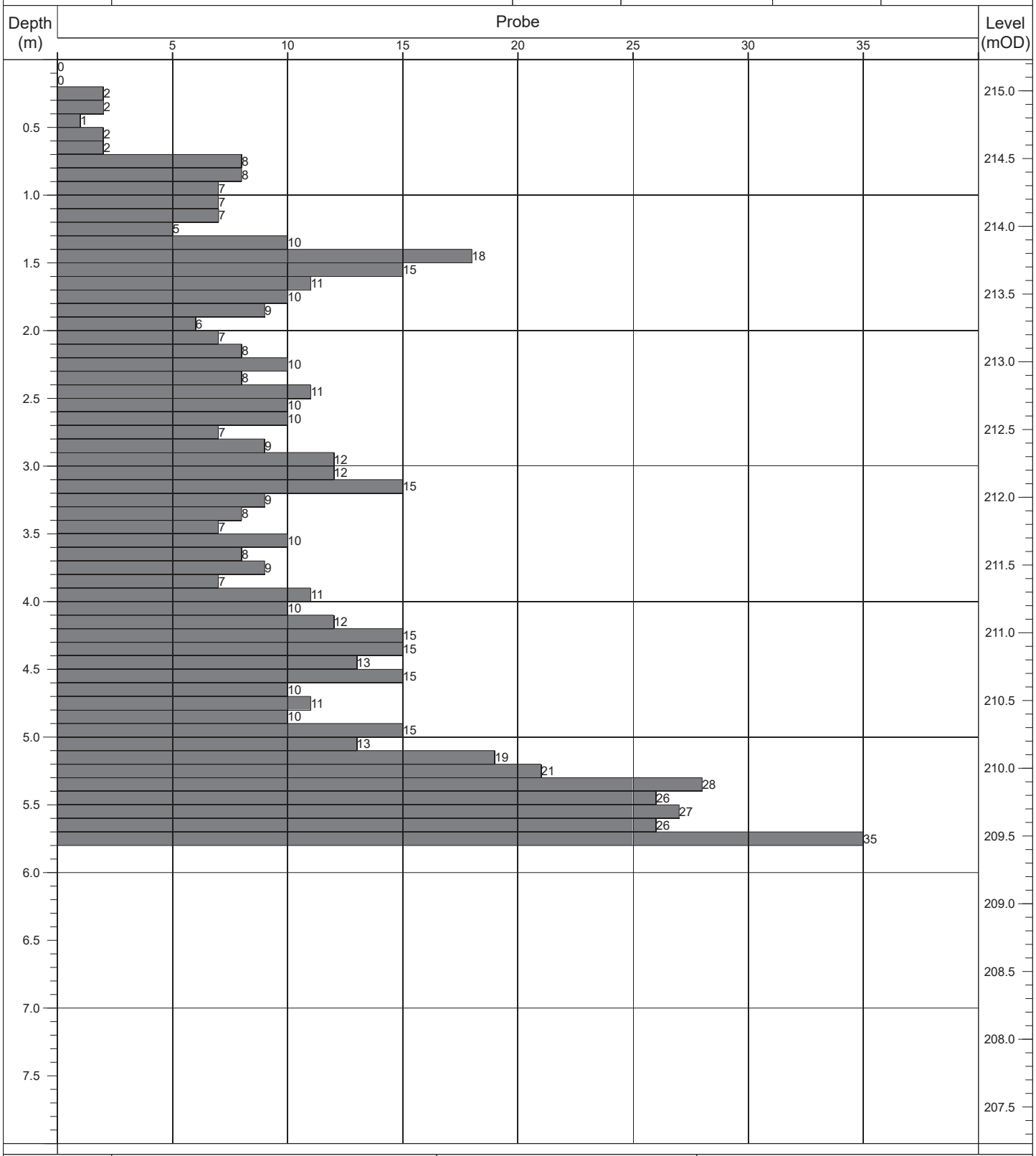
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	
4.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP238**
Contract:	Blessington - Phase 3	Easting:	697676.757	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715374.830	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.19	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



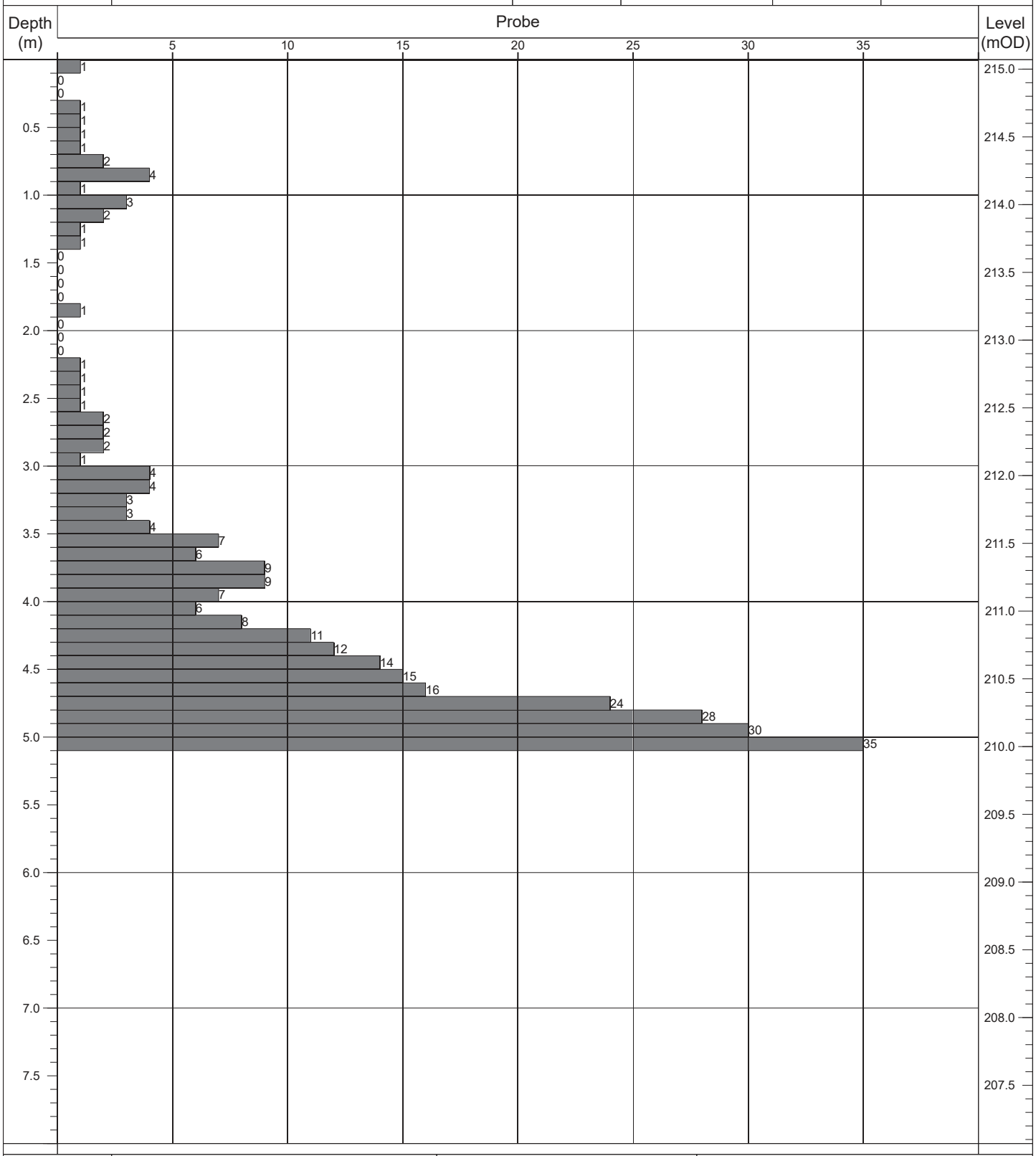
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP239
Contract:	Blessington - Phase 3	Easting:	697683.931	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715376.287	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.23	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



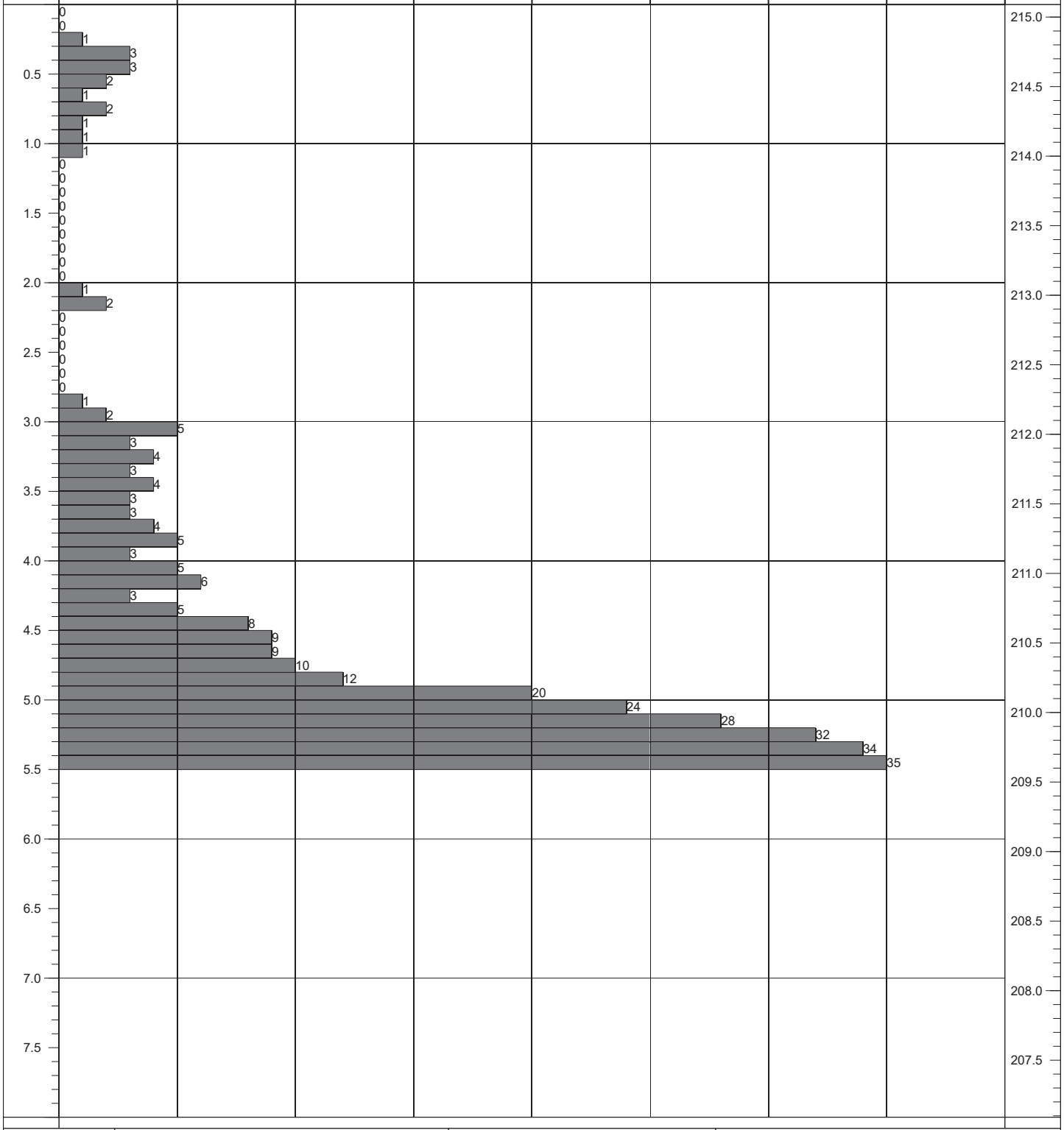
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP240
Contract:	Blessington - Phase 3	Easting:	697668.716	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715367.769	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.07	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



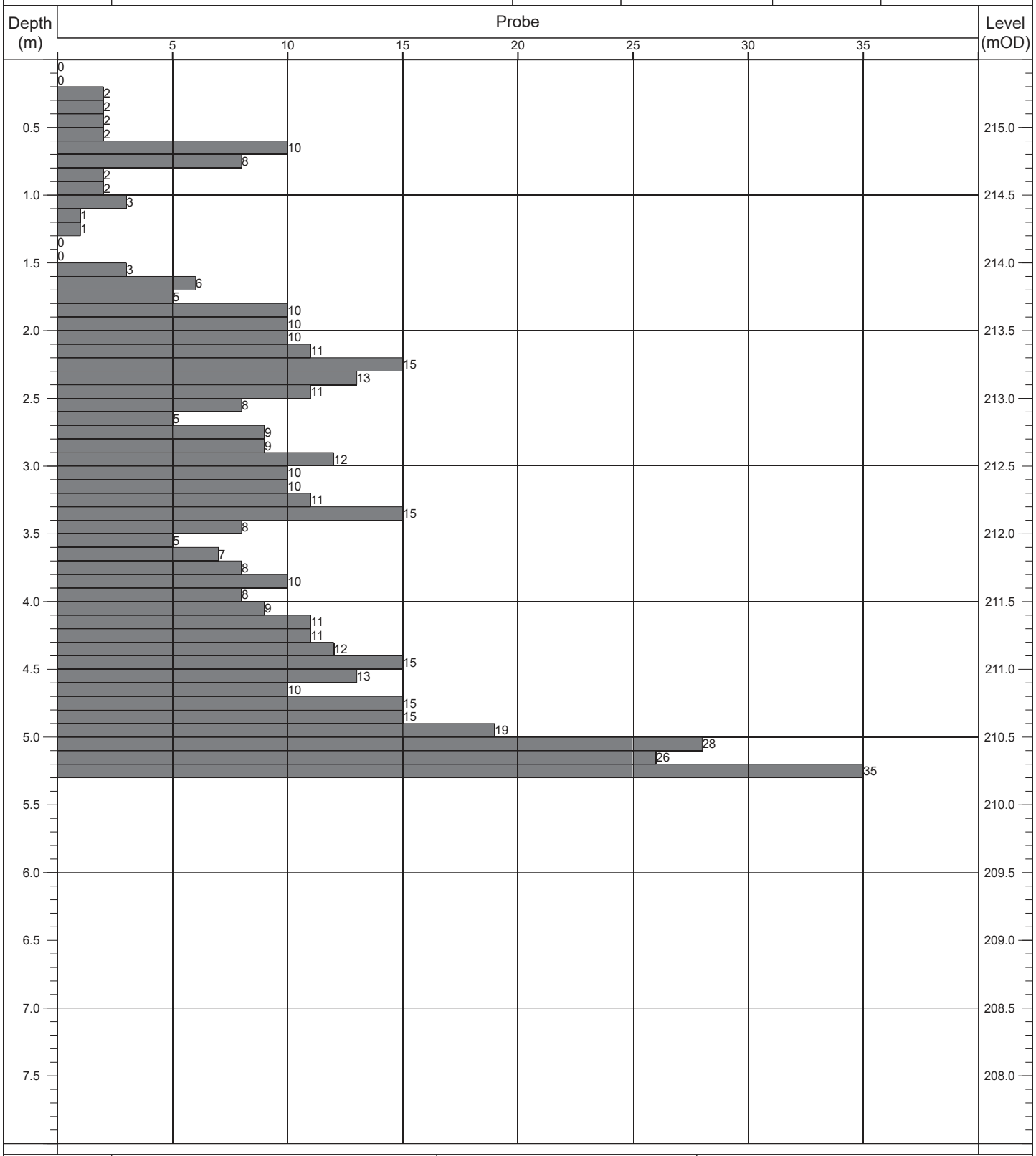
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP241
Contract:	Blessington - Phase 3	Easting:	697672.632	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715371.318	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.09	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



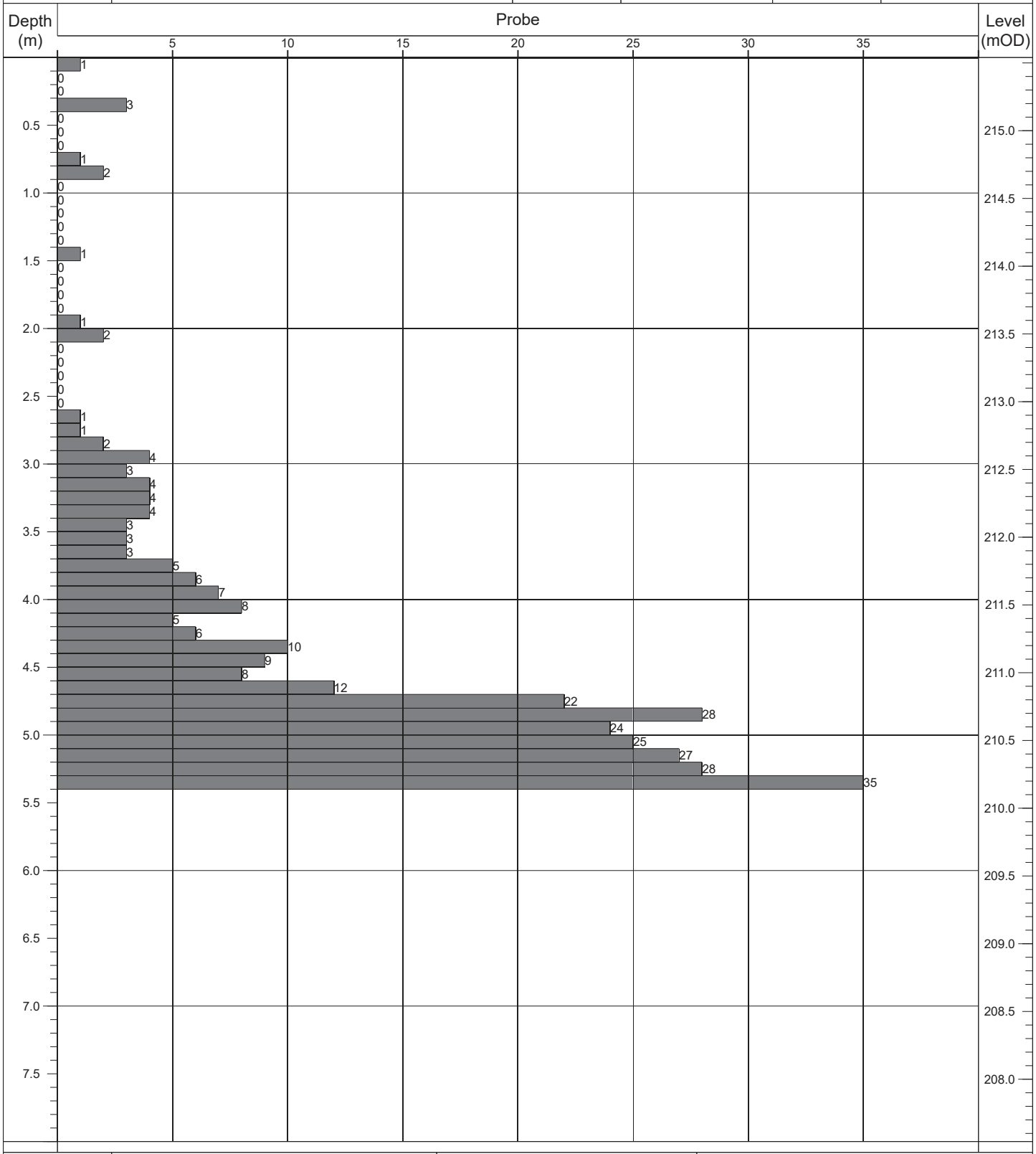
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP242
Contract:	Blessington - Phase 3	Easting:	697693.998	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715391.500	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.50	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



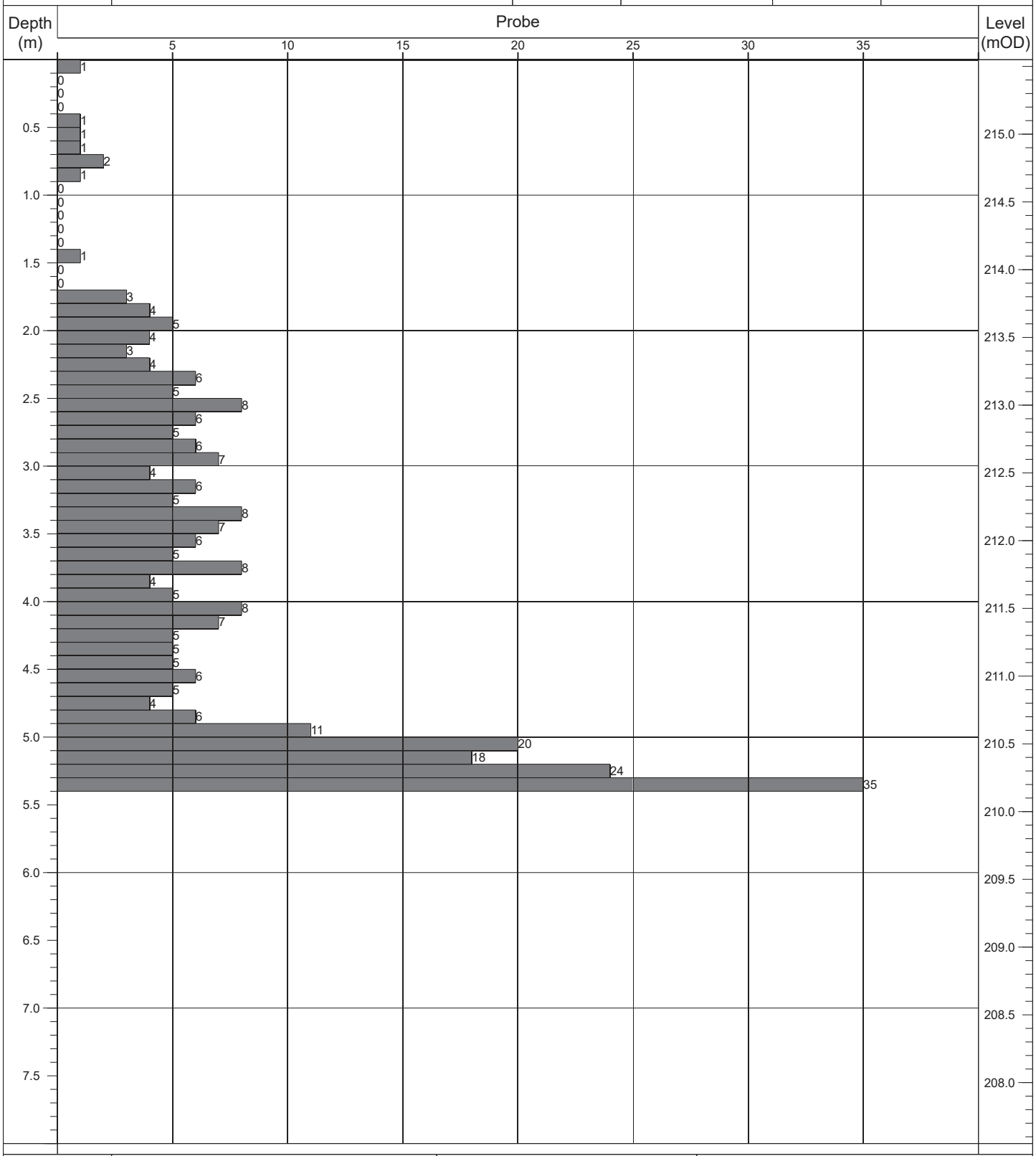
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP243
Contract:	Blessington - Phase 3	Easting:	697698.232	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715396.232	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.54	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



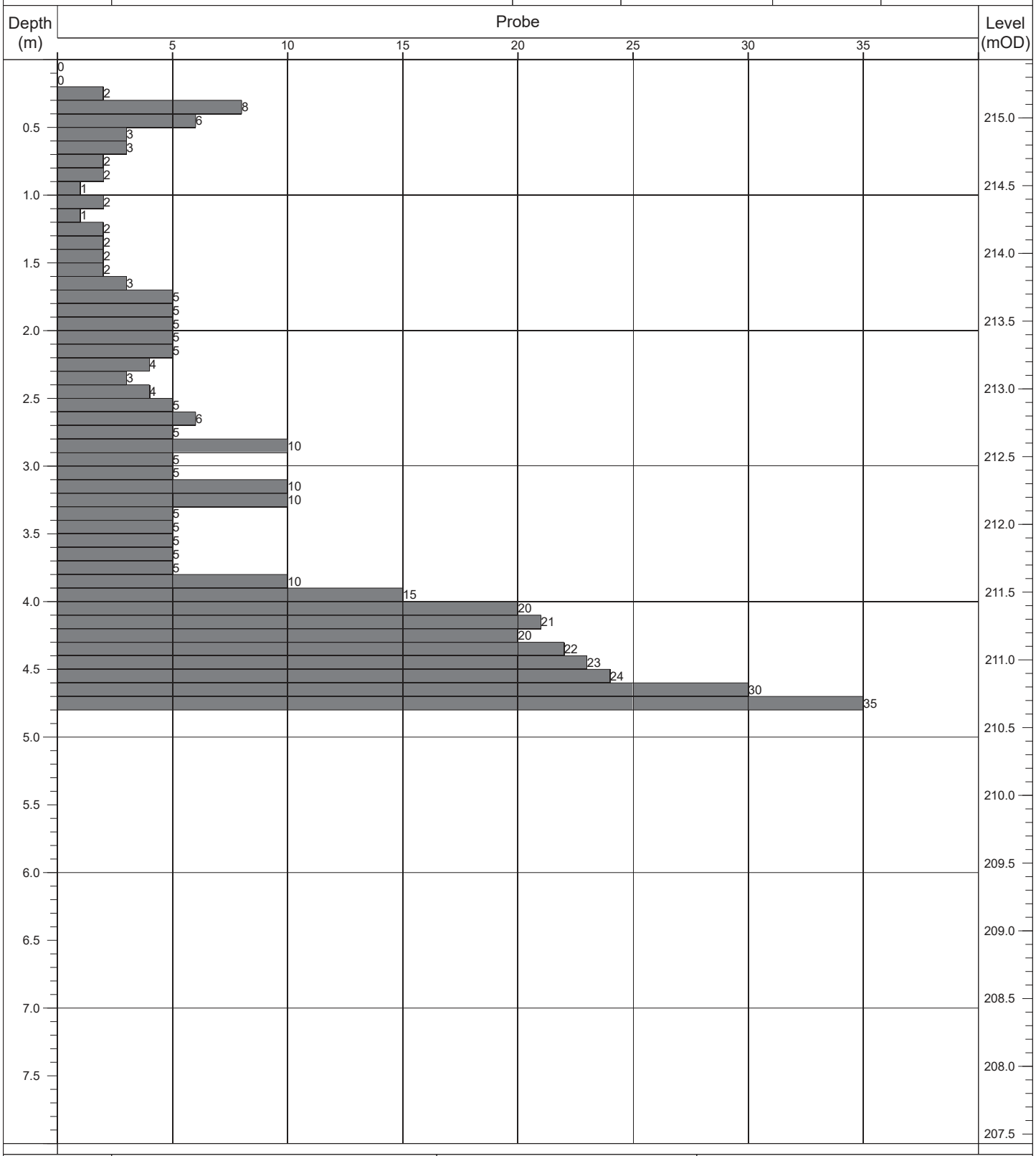
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP244
Contract:	Blessington - Phase 3	Easting:	697687.095	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715383.961	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.55	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



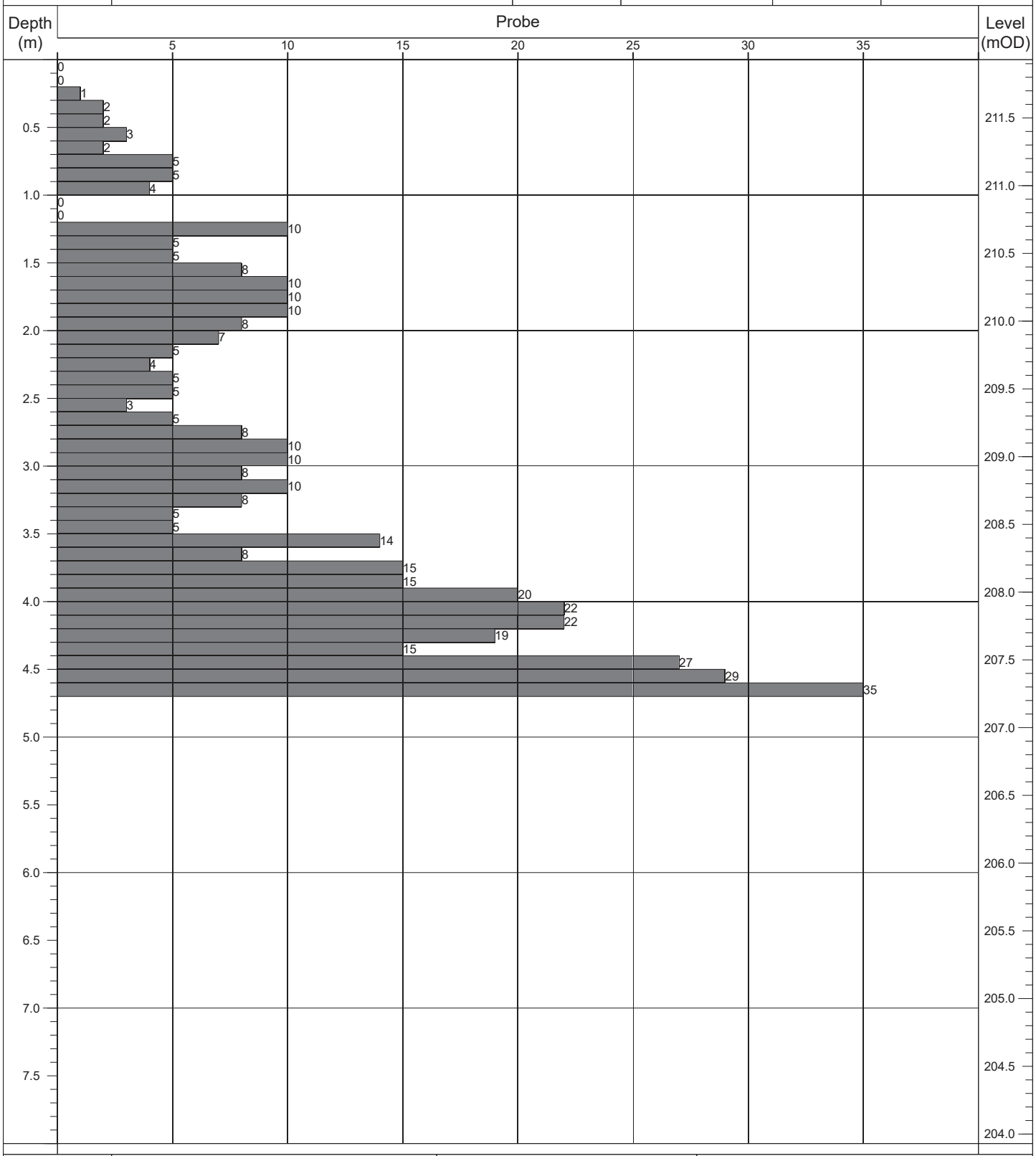
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP245**
Contract:	Blessington - Phase 3	Easting:	697691.643	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715388.791	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	215.43	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



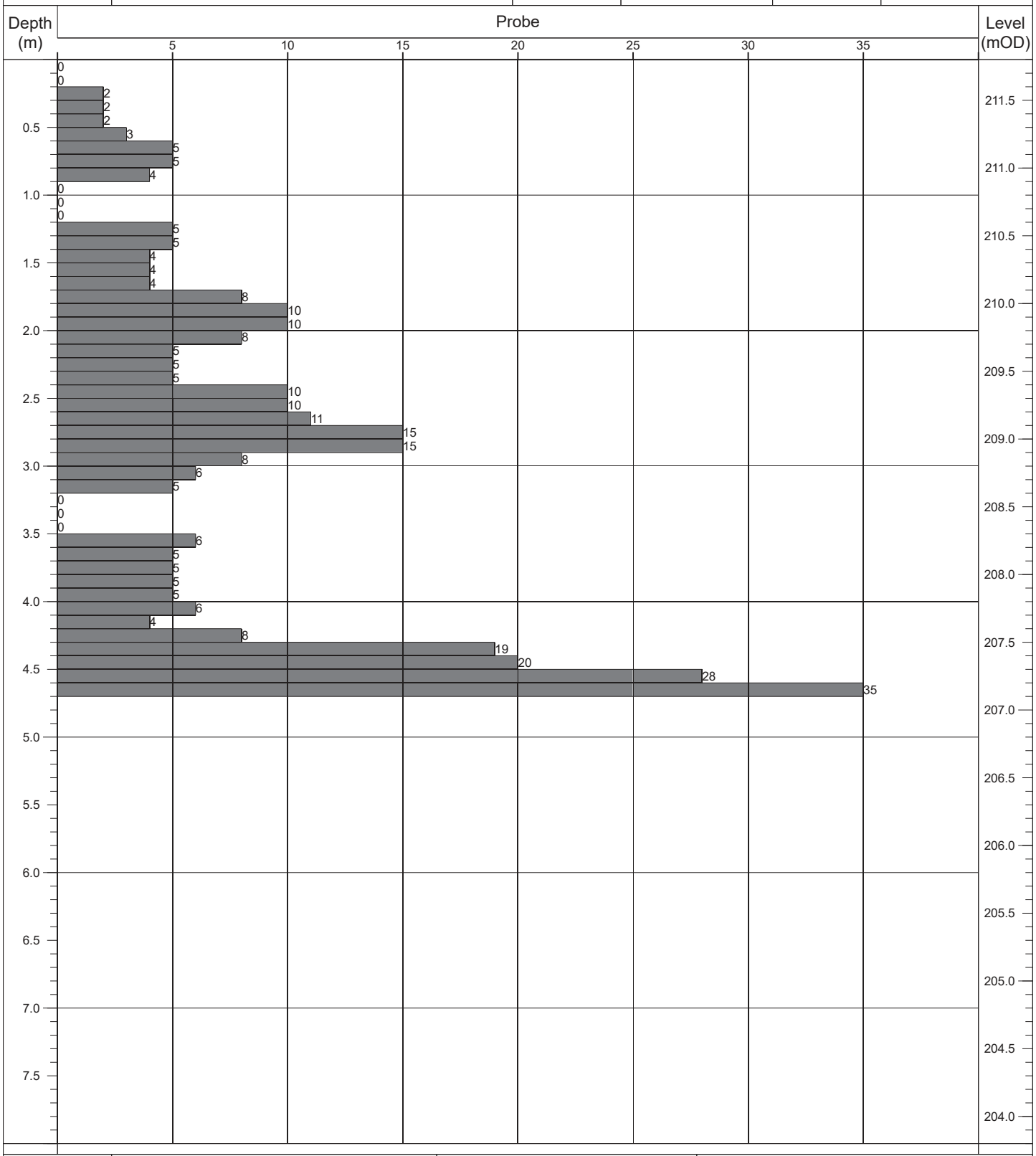
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP246**
Contract:	Blessington - Phase 3	Easting:	697643.252	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715235.656	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.93	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



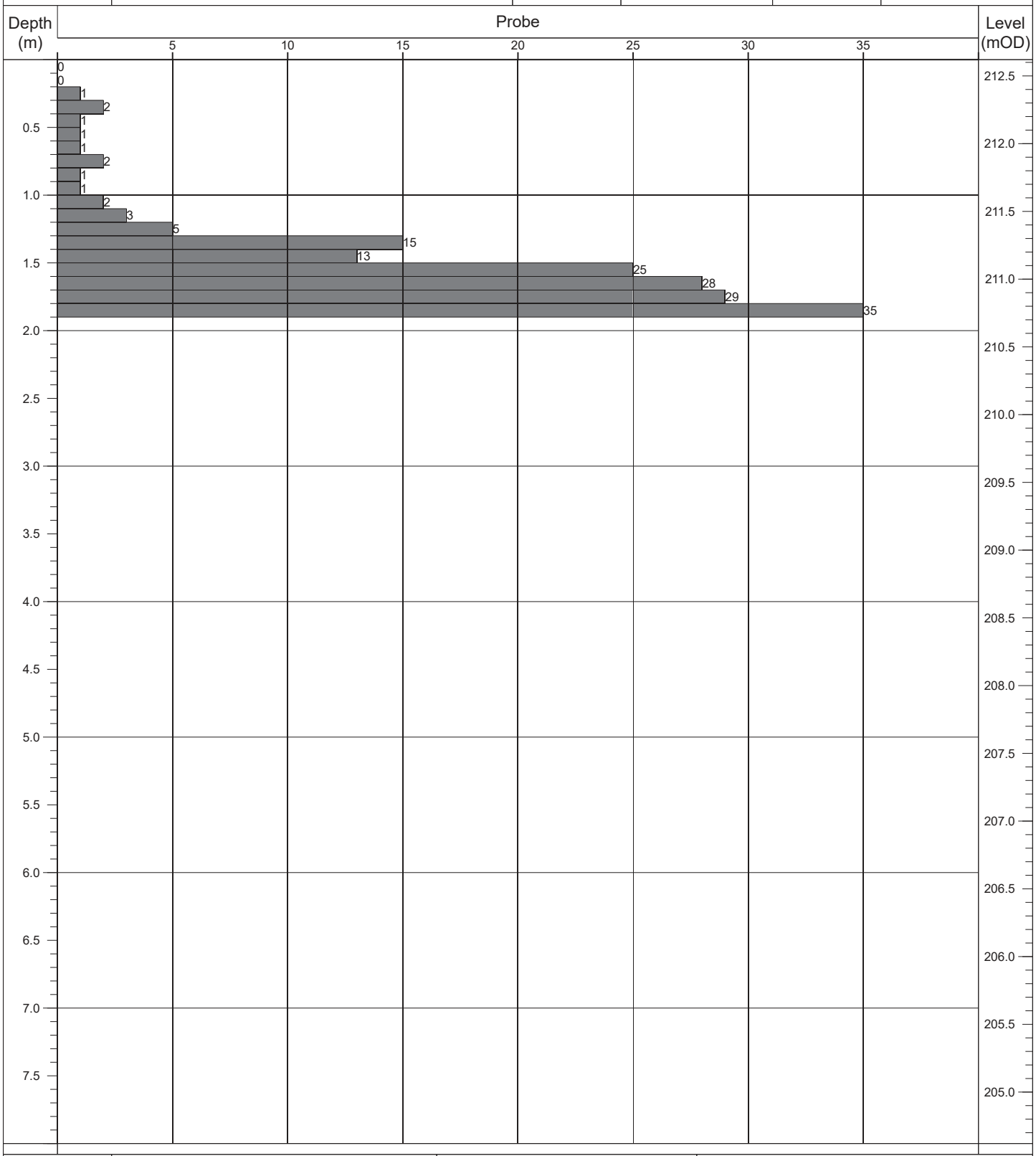
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No:	Dynamic Probe Log				Probe No:
6100					**DP247**
Contract:	Blessington - Phase 3	Easting:	697650.972	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715231.239	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.80	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



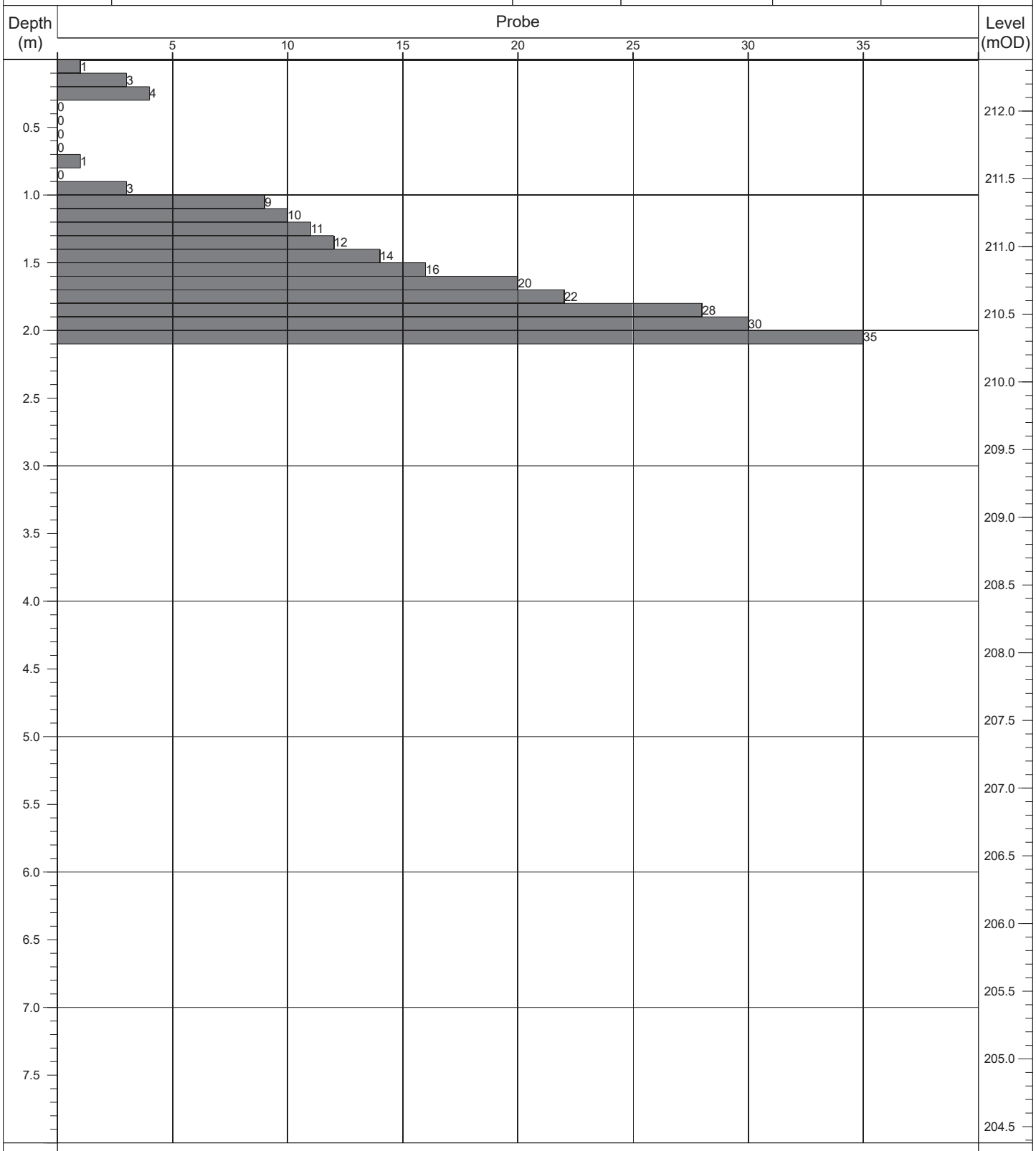
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP248
Contract:	Blessington - Phase 3	Easting:	697653.688	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715250.186	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.62	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



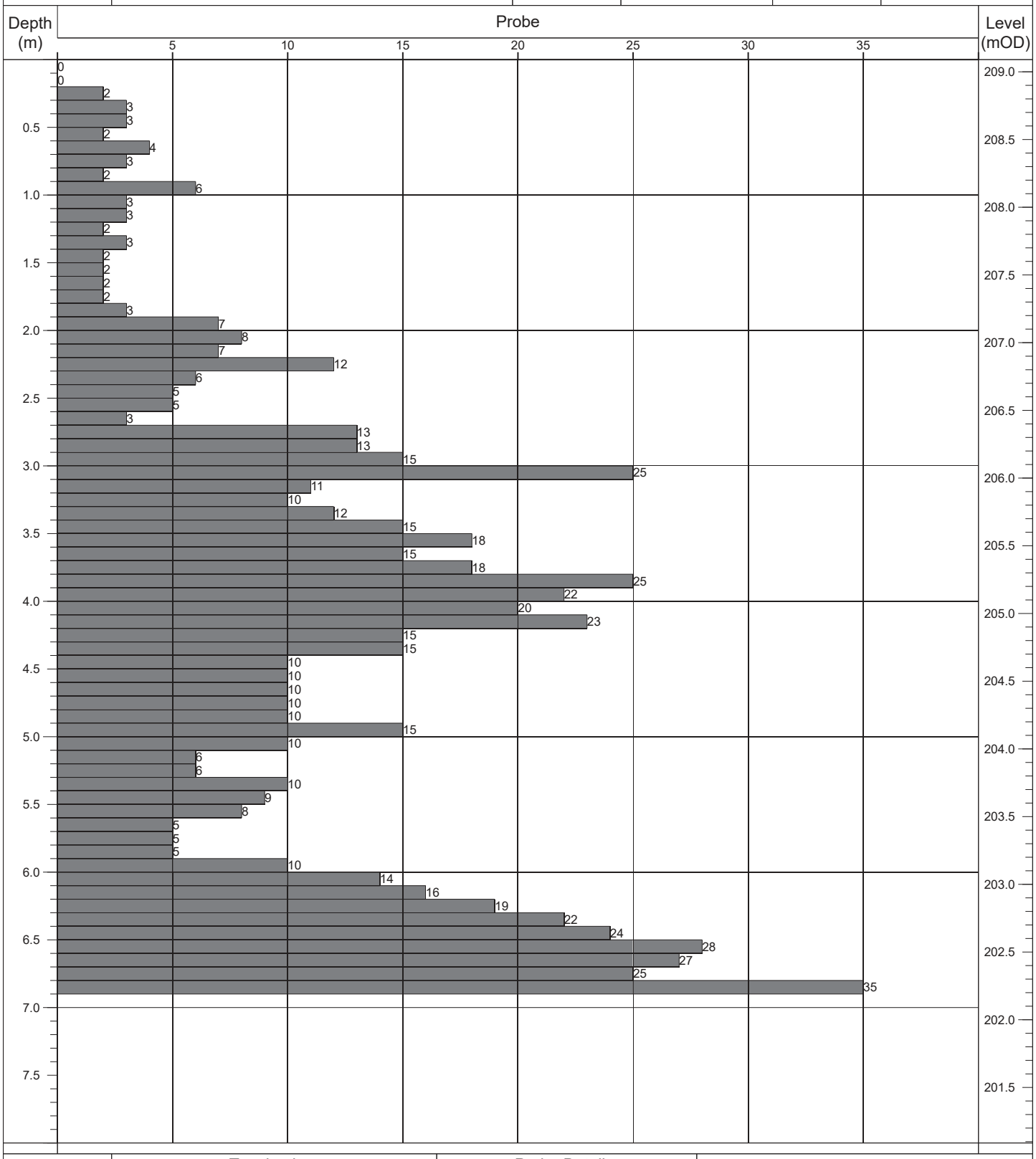
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
1.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP249
Contract:	Blessington - Phase 3	Easting:	697650.027	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715246.300	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.38	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



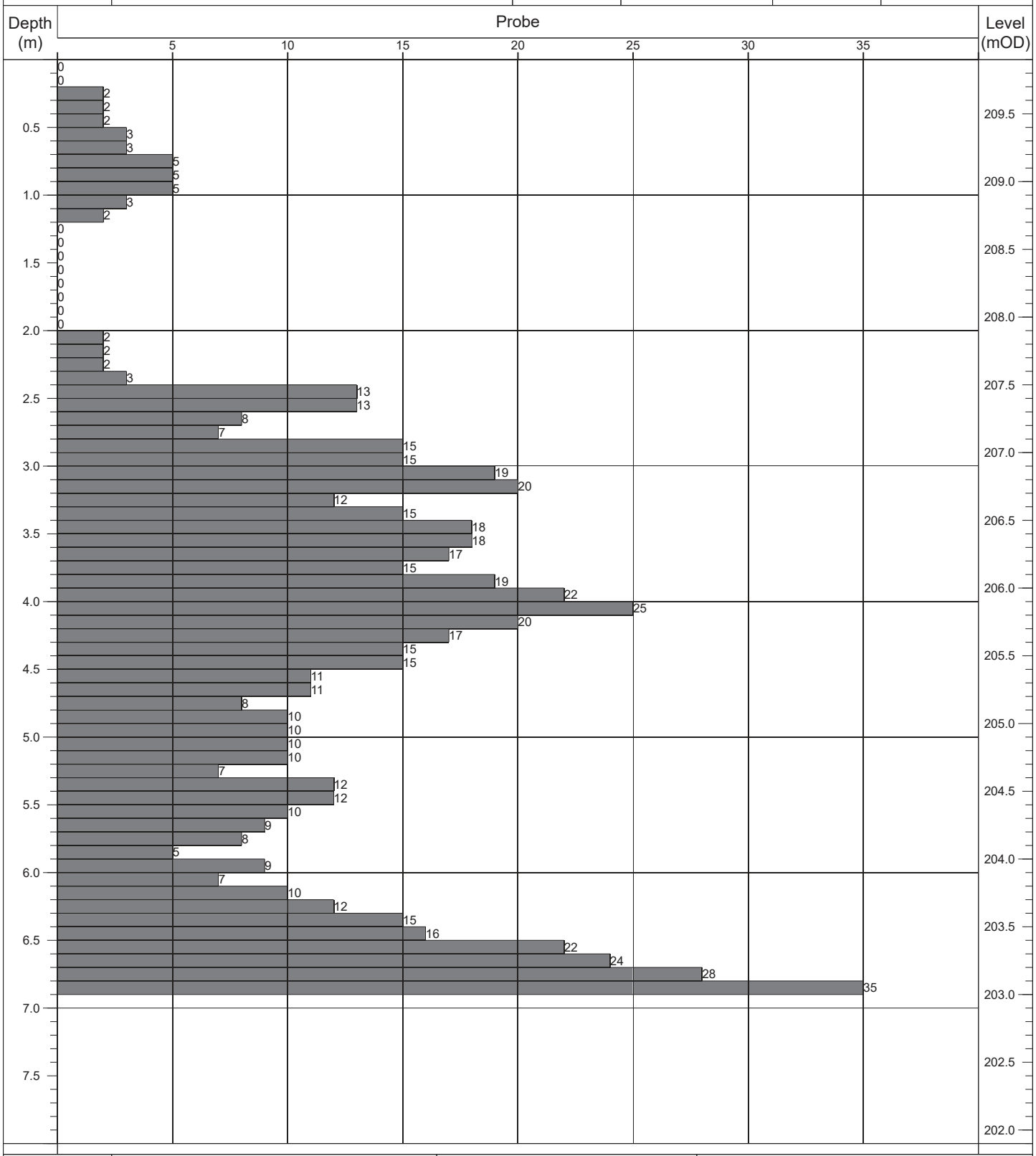
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP250
Contract:	Blessington - Phase 3	Easting:	697701.831	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715200.259	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.09	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



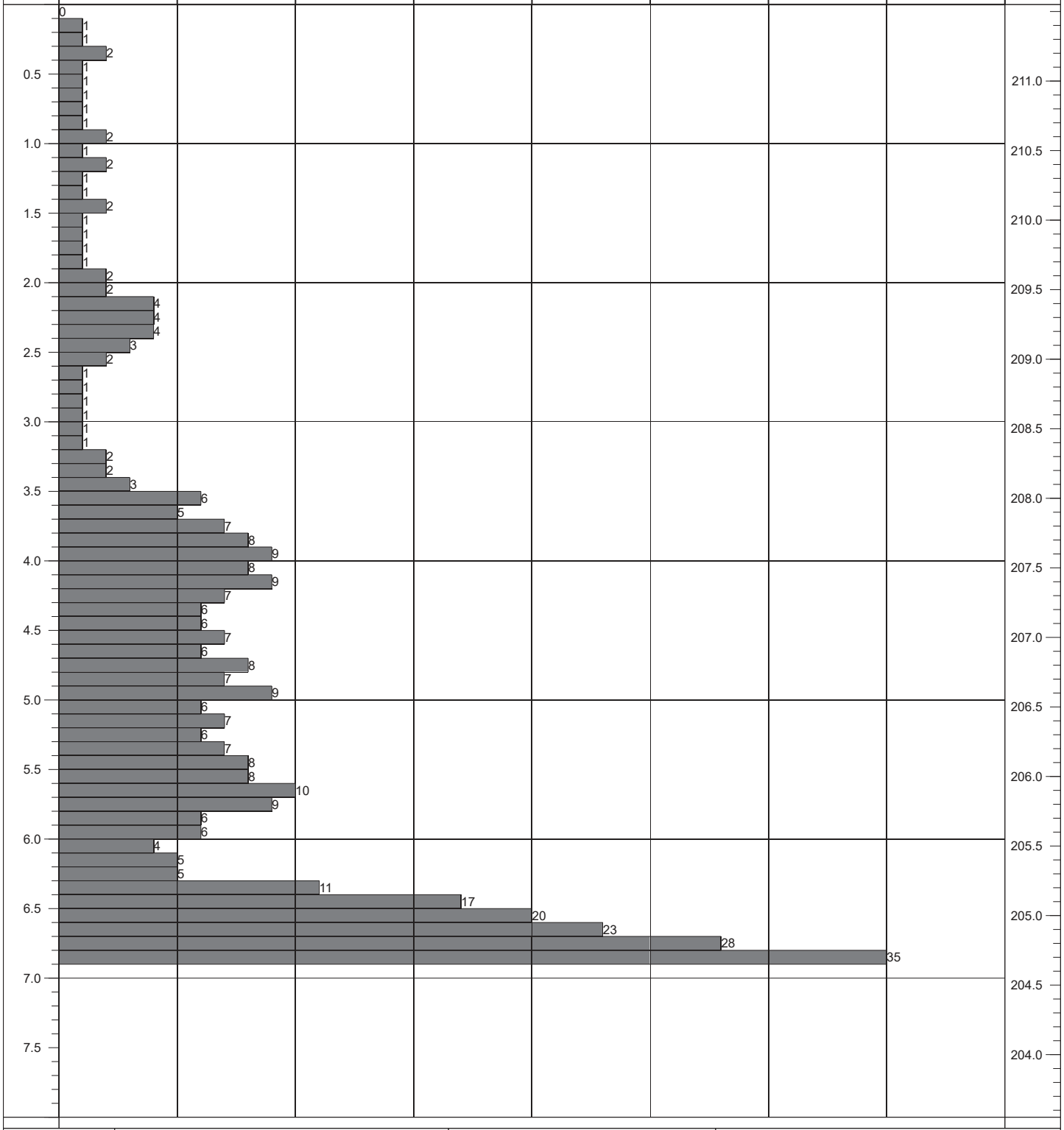
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP251
Contract:	Blessington - Phase 3	Easting:	697703.161	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715205.312	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	209.90	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



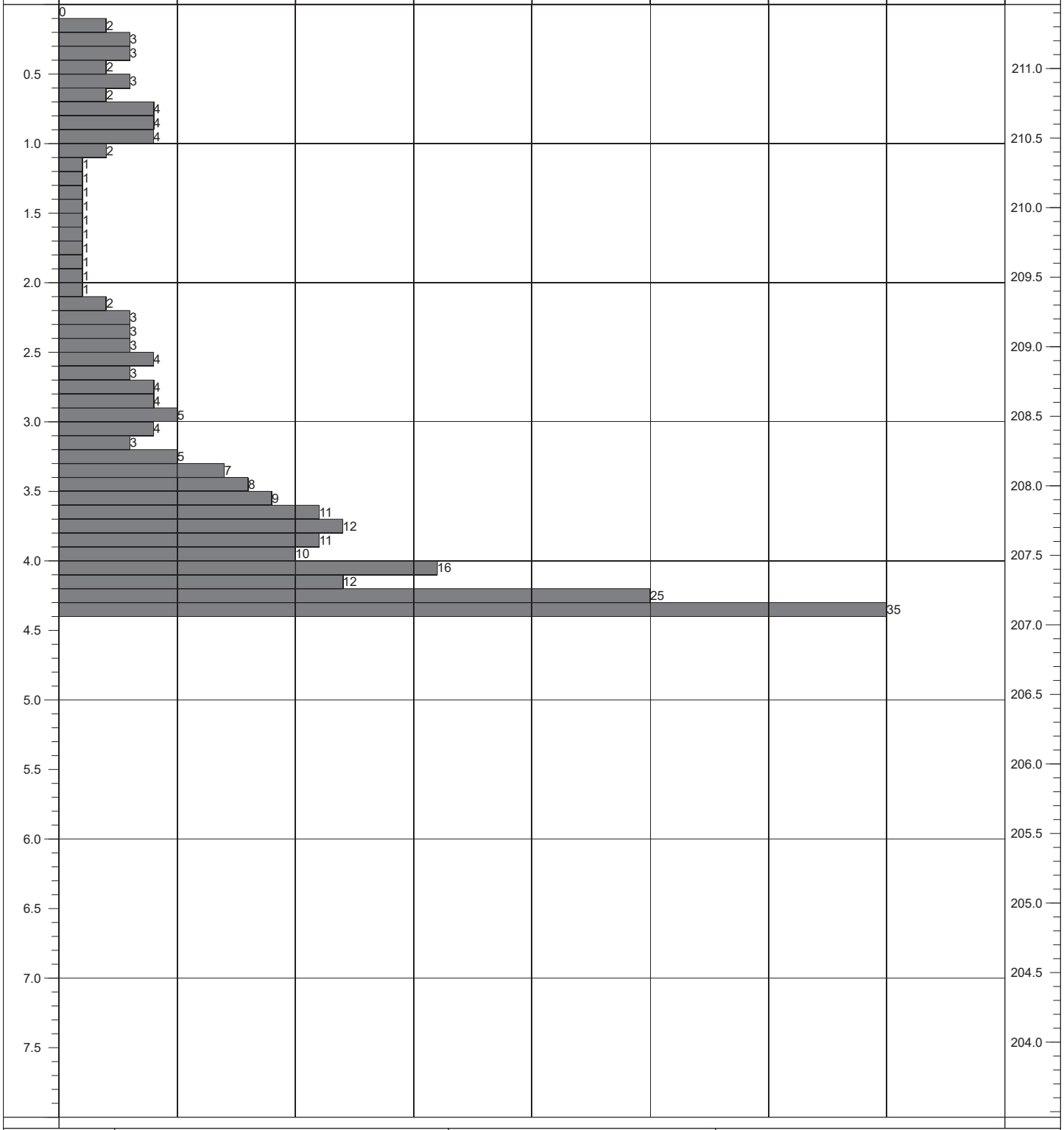
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP252**
Contract:	Blessington - Phase 3	Easting:	697675.660	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715222.594	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.55	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



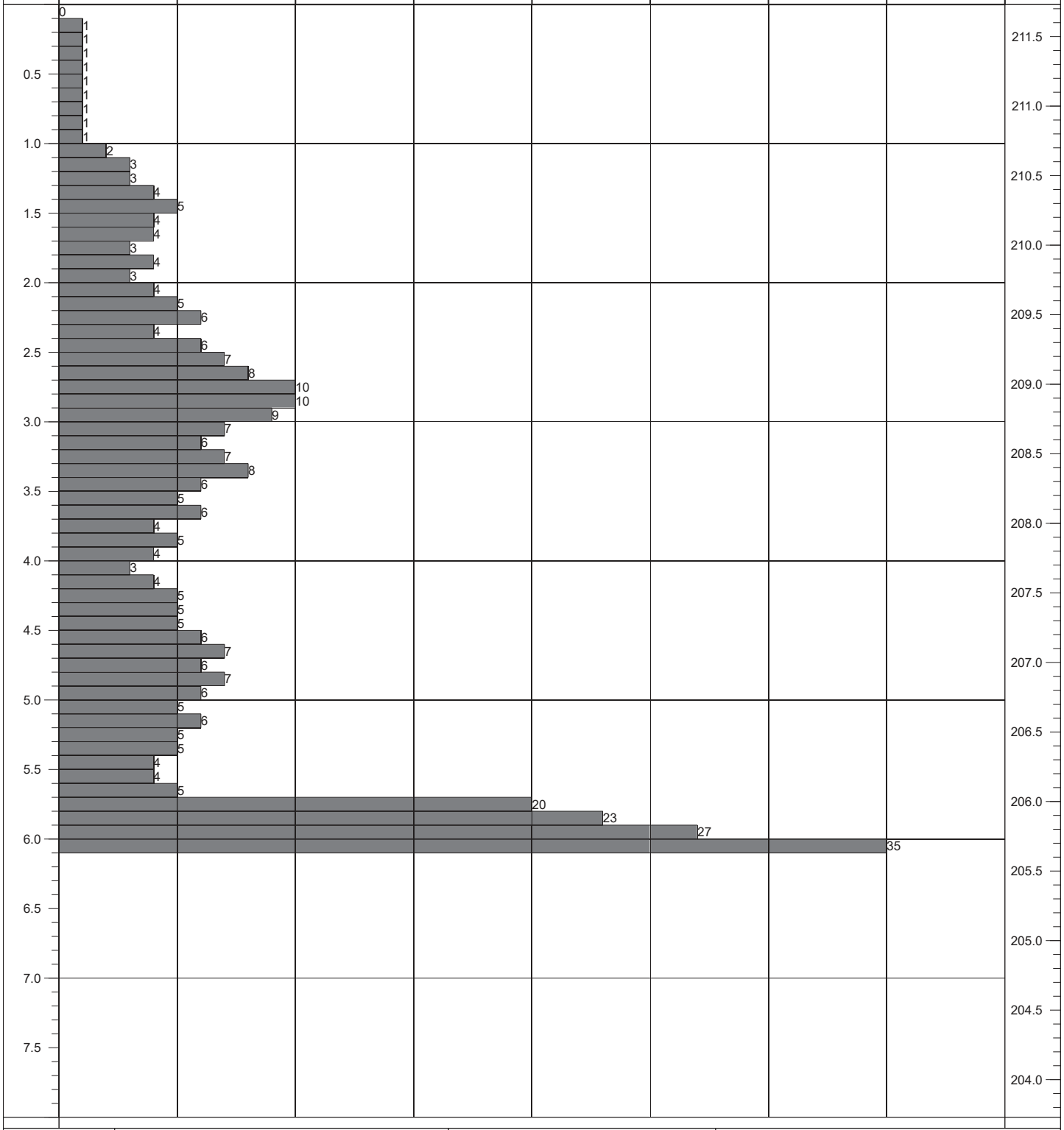
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP253**
Contract:	Blessington - Phase 3	Easting:	697672.954	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715217.492	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.46	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



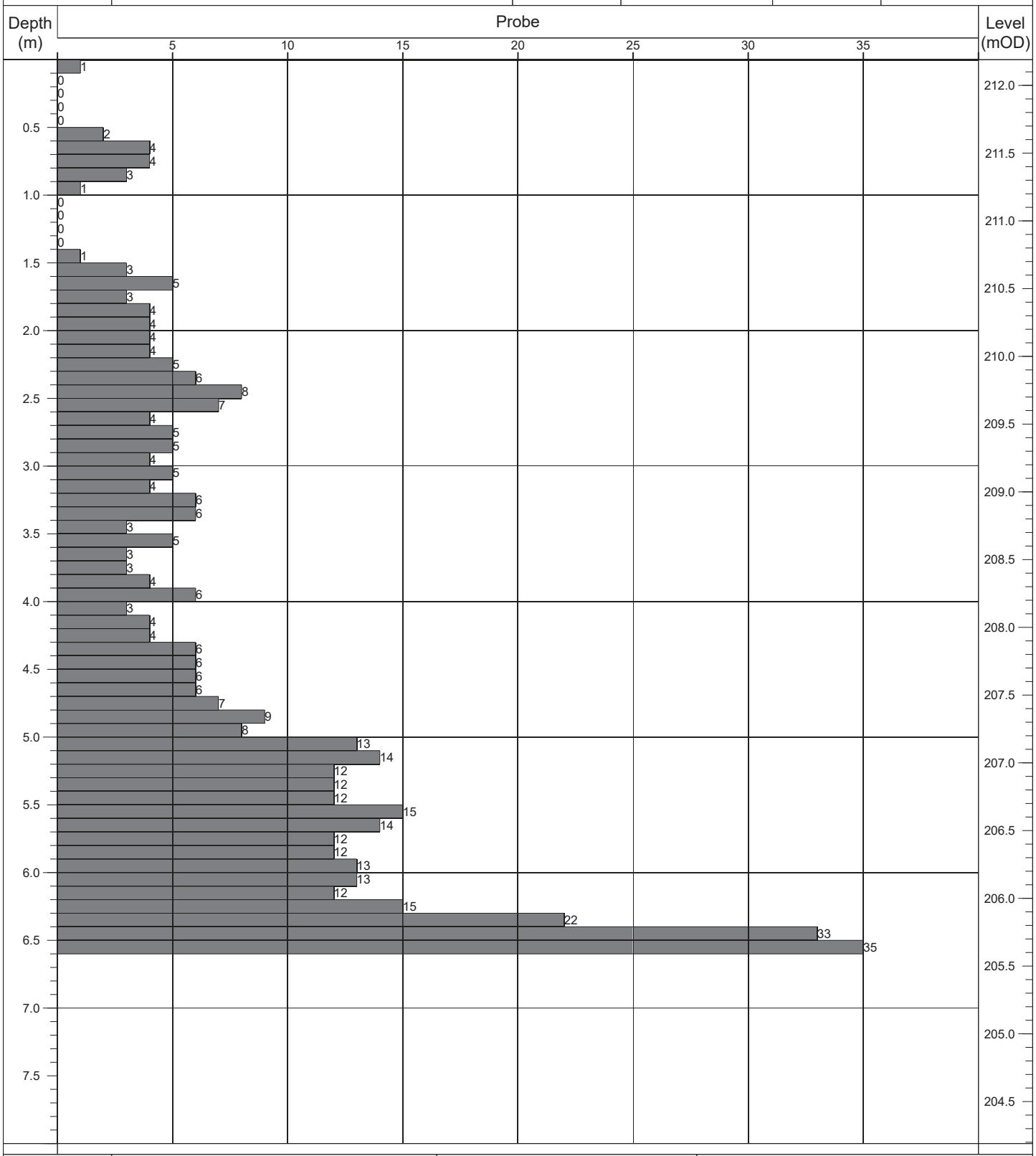
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
4.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP254
Contract:	Blessington - Phase 3	Easting:	697681.326	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715228.932	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.73	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



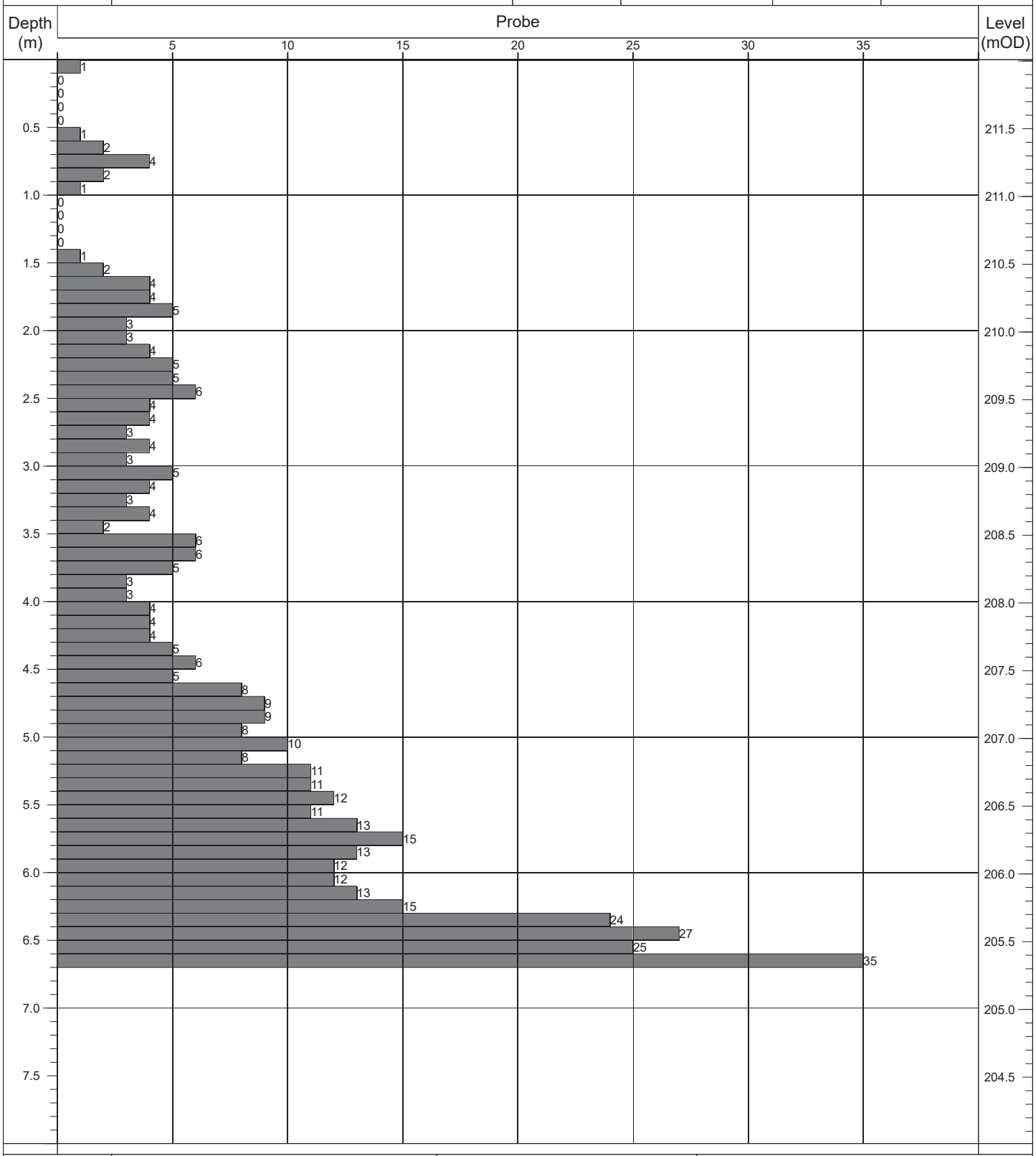
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.10m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP255
Contract:	Blessington - Phase 3	Easting:	697708.160	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715256.779	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.19	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



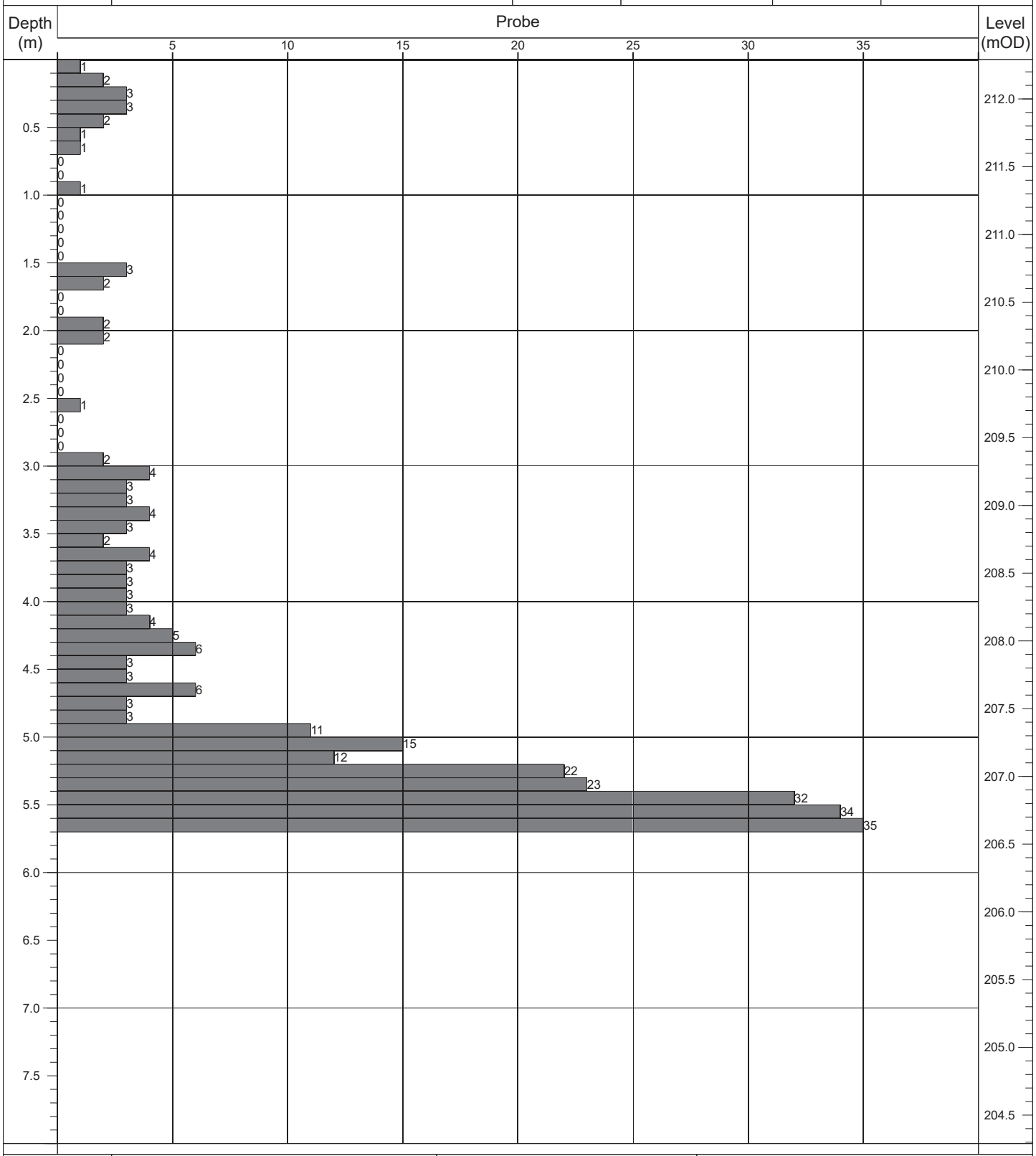
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP256
Contract:	Blessington - Phase 3	Easting:	697702.942	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715250.815	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.01	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



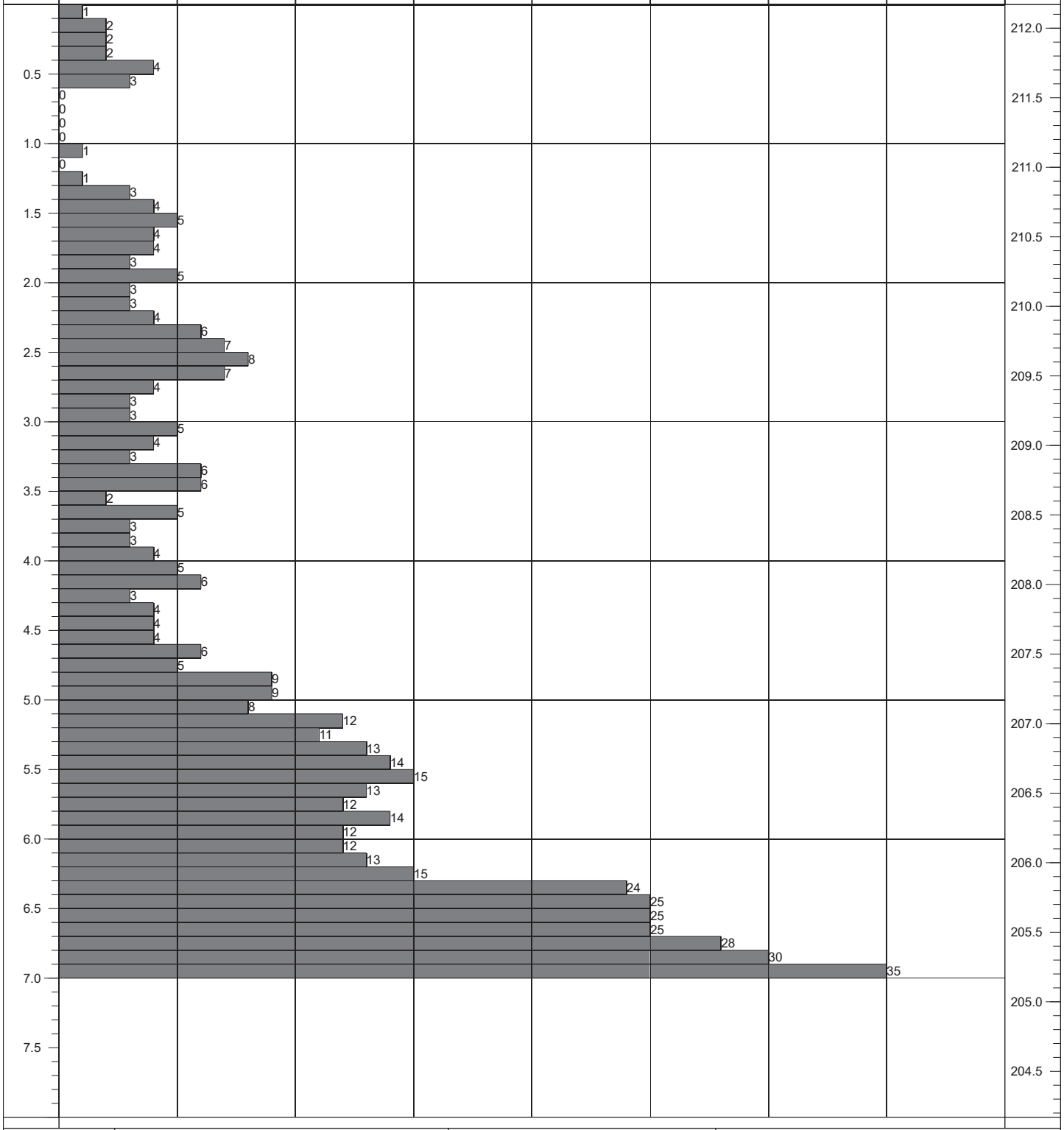
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP257
Contract:	Blessington - Phase 3	Easting:	697731.176	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715270.750	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.29	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



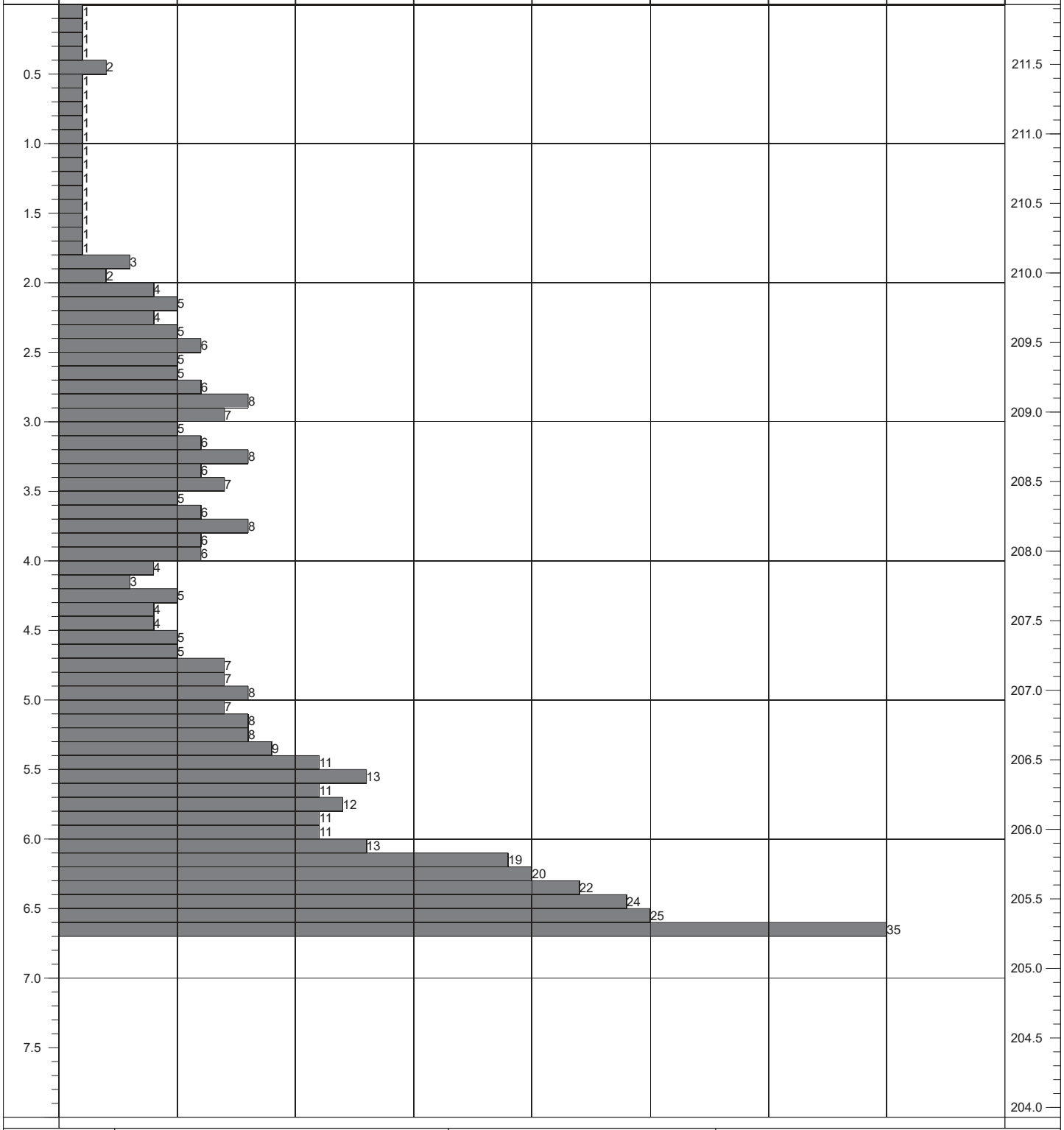
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP258
Contract:	Blessington - Phase 3	Easting:	697712.658	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715260.717	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	212.17	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



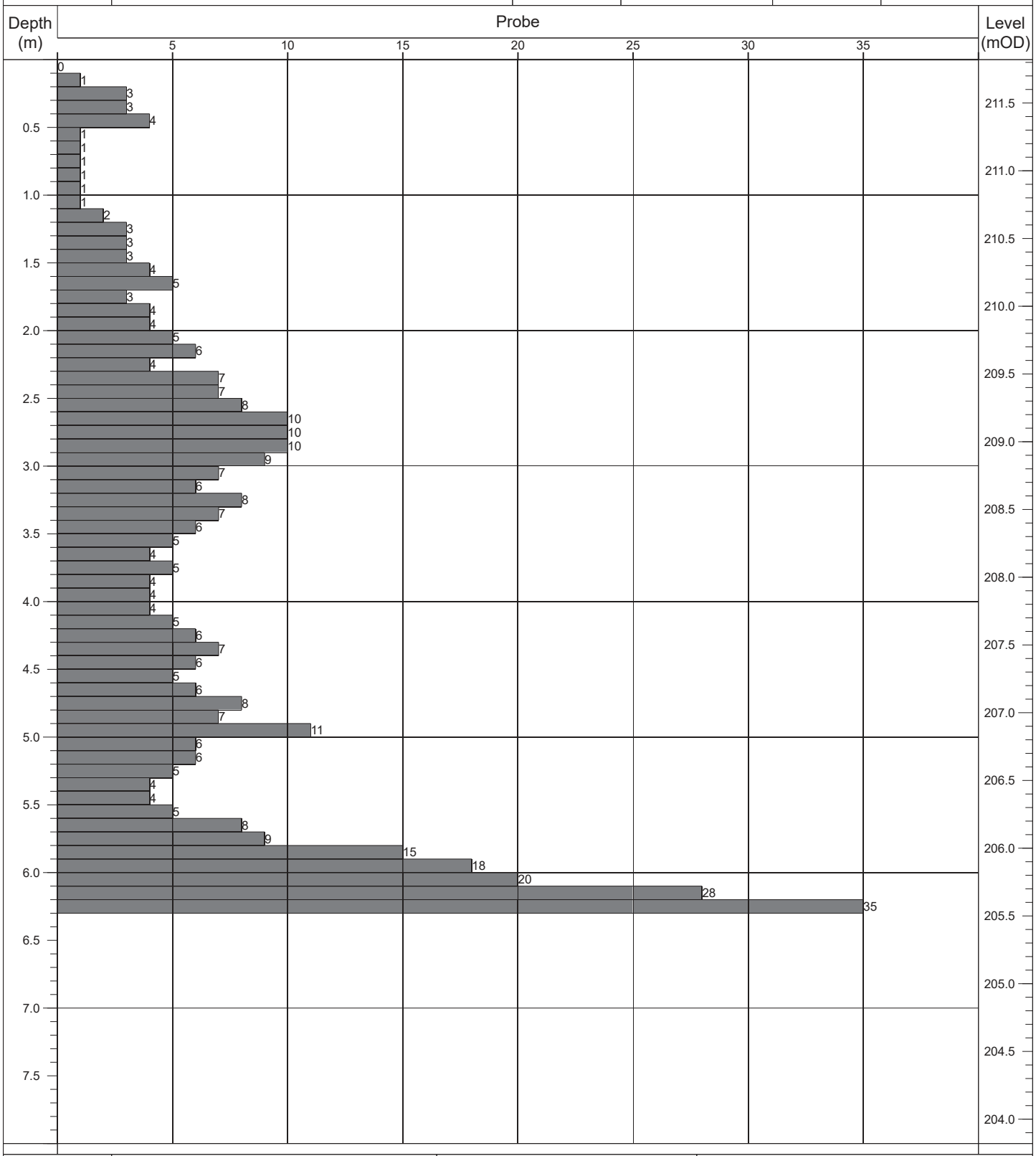
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
7.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP259**
Contract:	Blessington - Phase 3	Easting:	697691.326	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715238.913	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.93	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



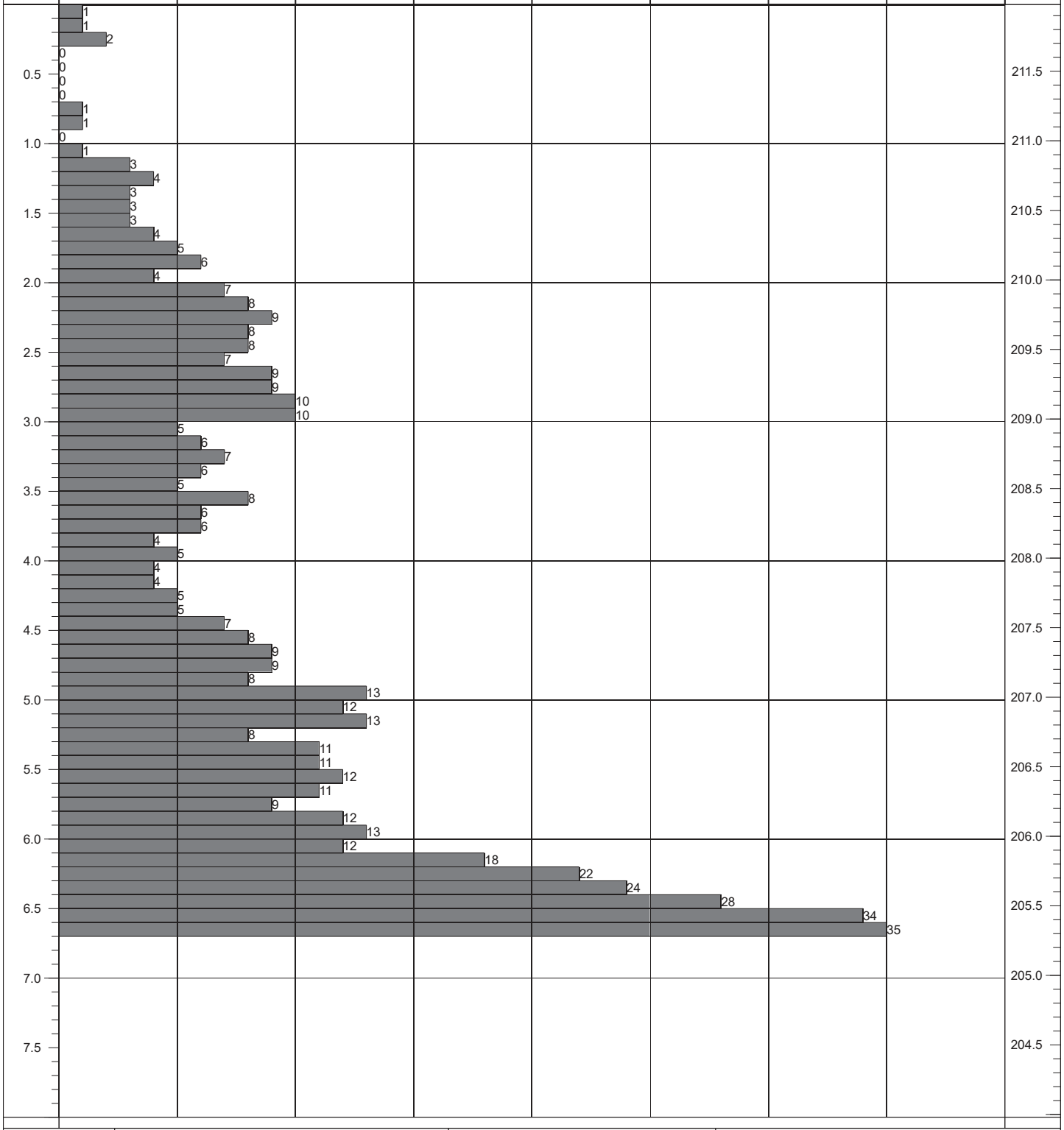
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP260
Contract:	Blessington - Phase 3	Easting:	697685.704	Date Started:	19/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715233.109	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.82	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



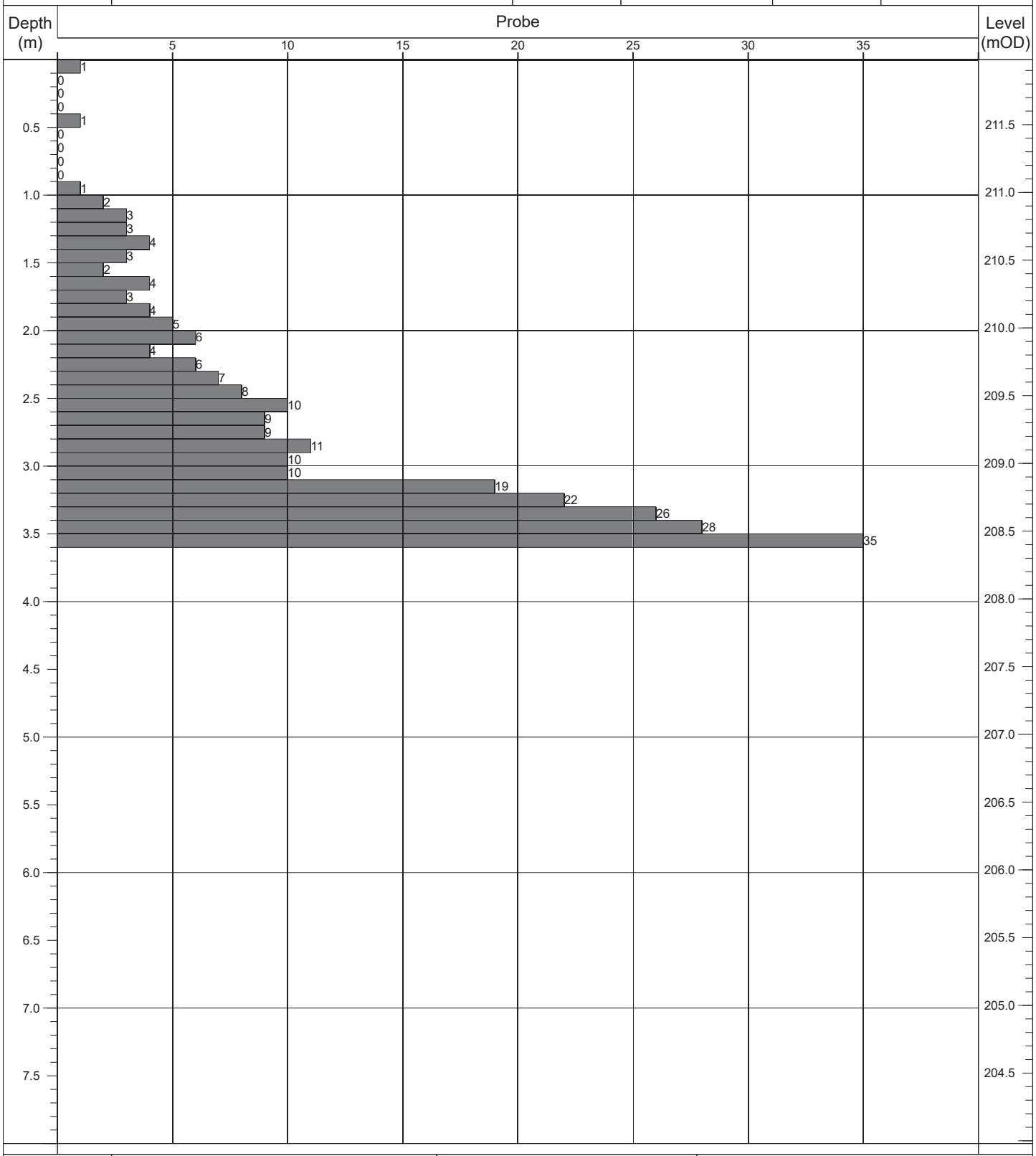
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP261**
Contract:	Blessington - Phase 3	Easting:	697699.225	Date Started:	04/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715246.754	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.98	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



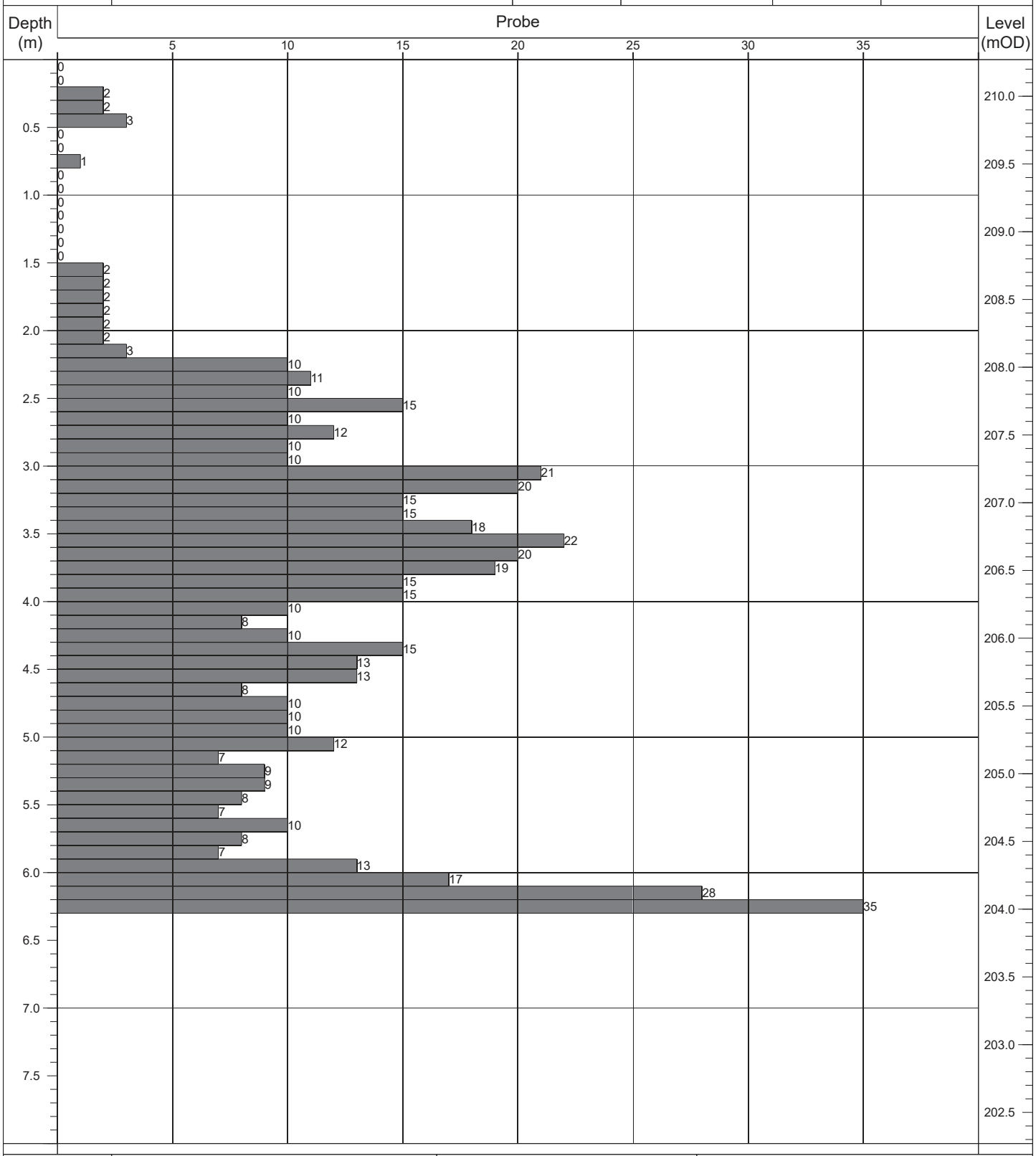
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP262
Contract:	Blessington - Phase 3	Easting:	697695.214	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715242.750	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.98	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



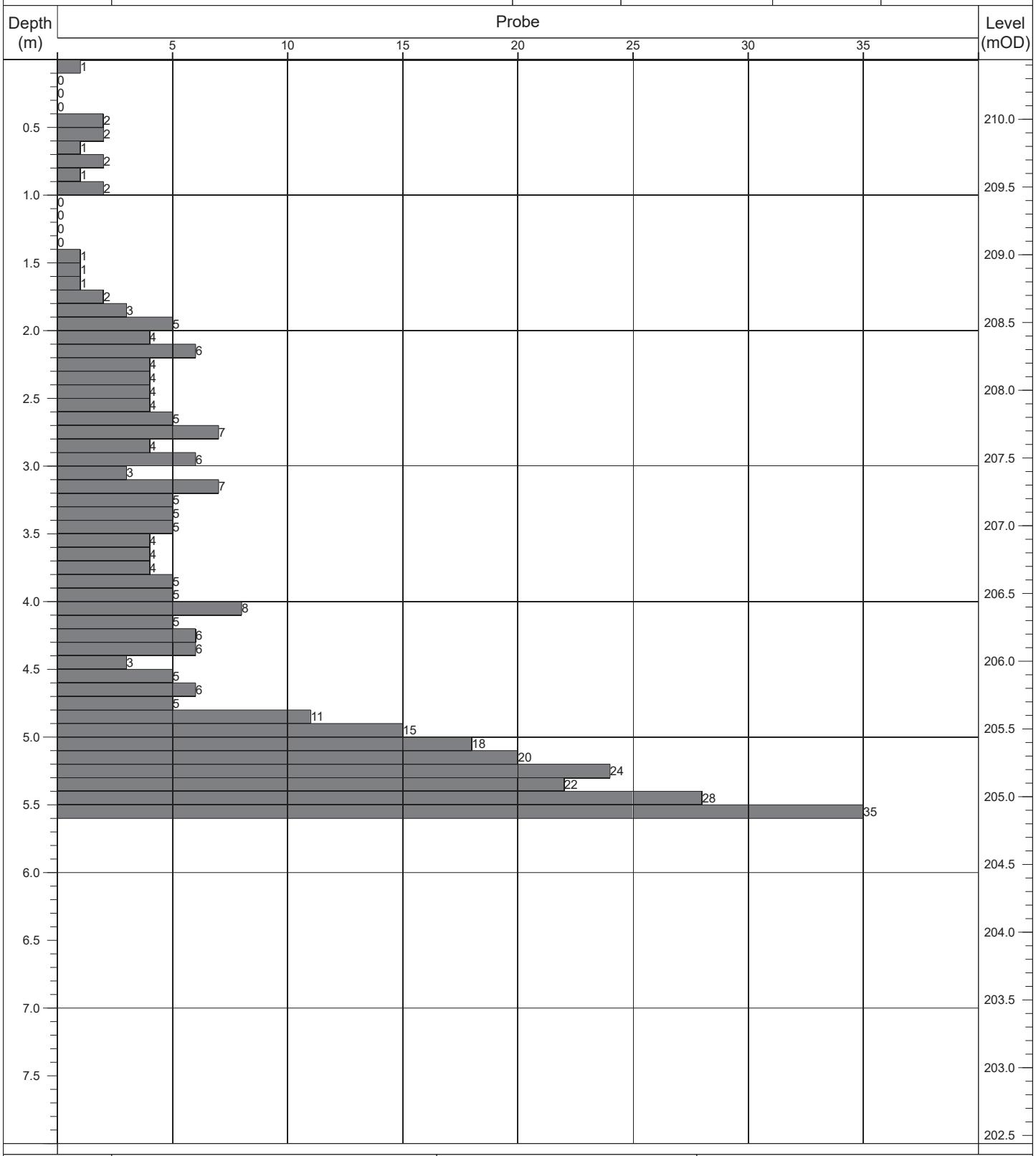
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP263
Contract:	Blessington - Phase 3	Easting:	697709.569	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715212.479	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	210.27	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



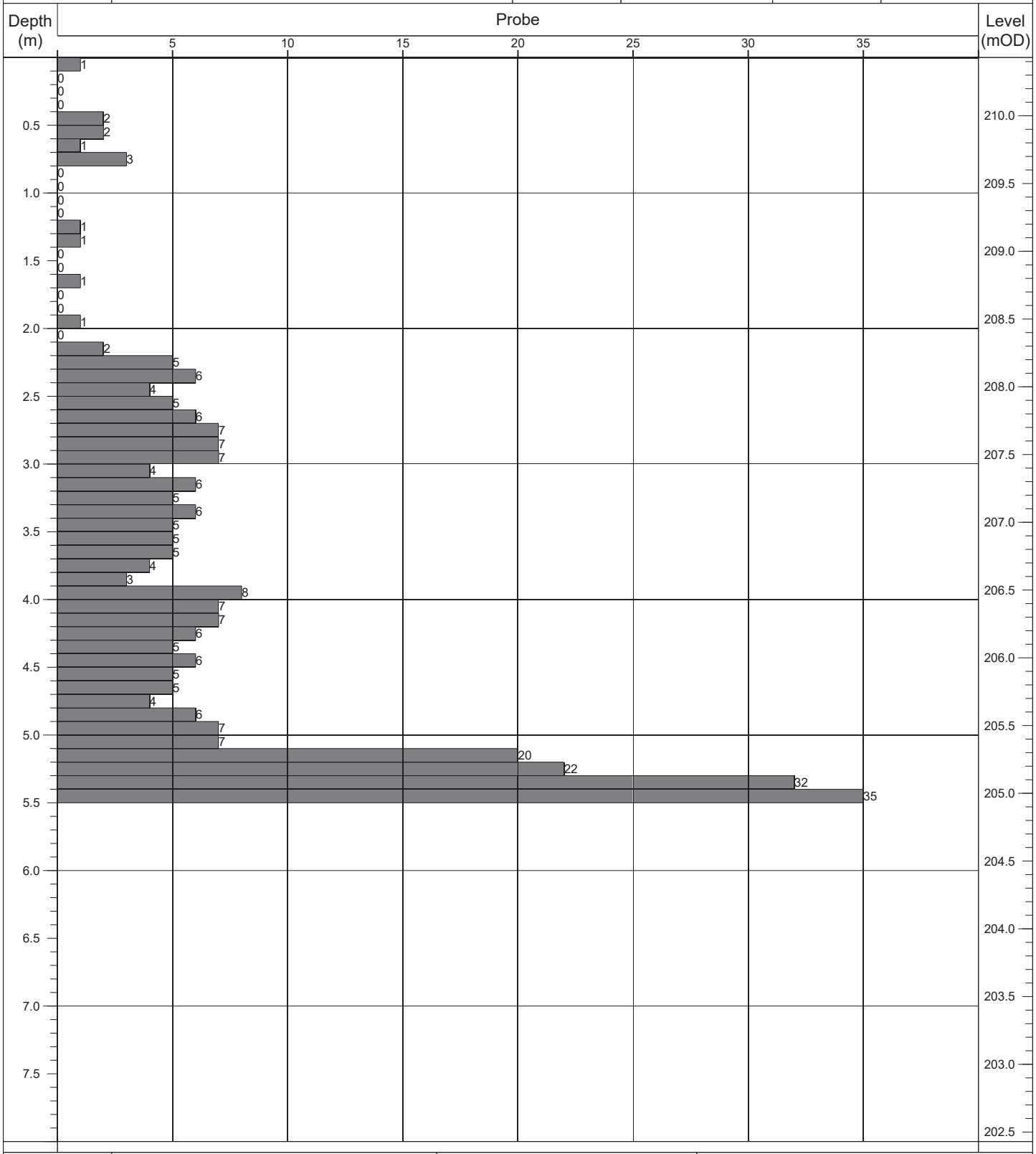
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.30m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP264**
Contract:	Blessington - Phase 3	Easting:	697776.439	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715233.047	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.44	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



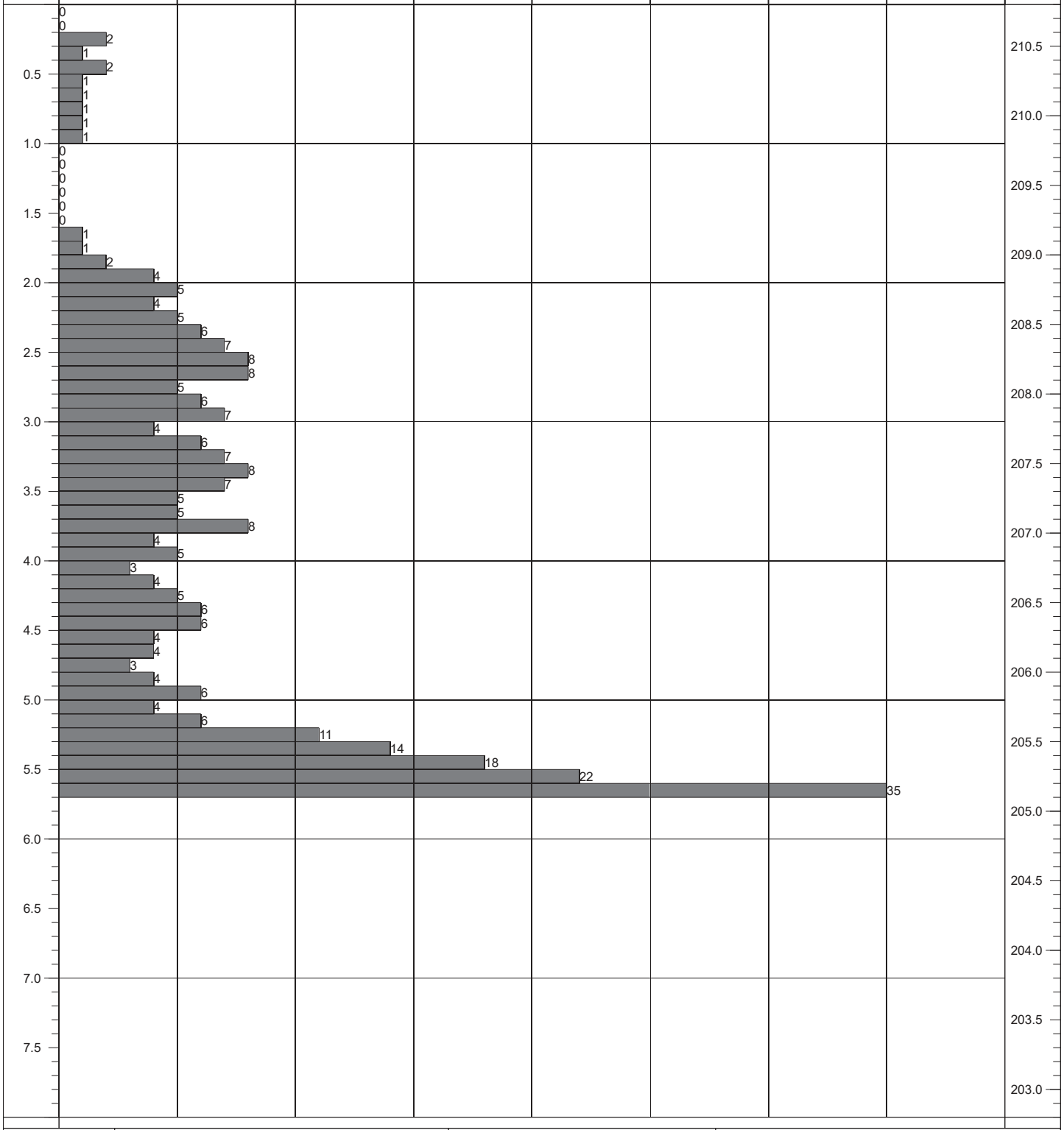
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP265
Contract:	Blessington - Phase 3	Easting:	697780.275	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715228.482	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.43	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



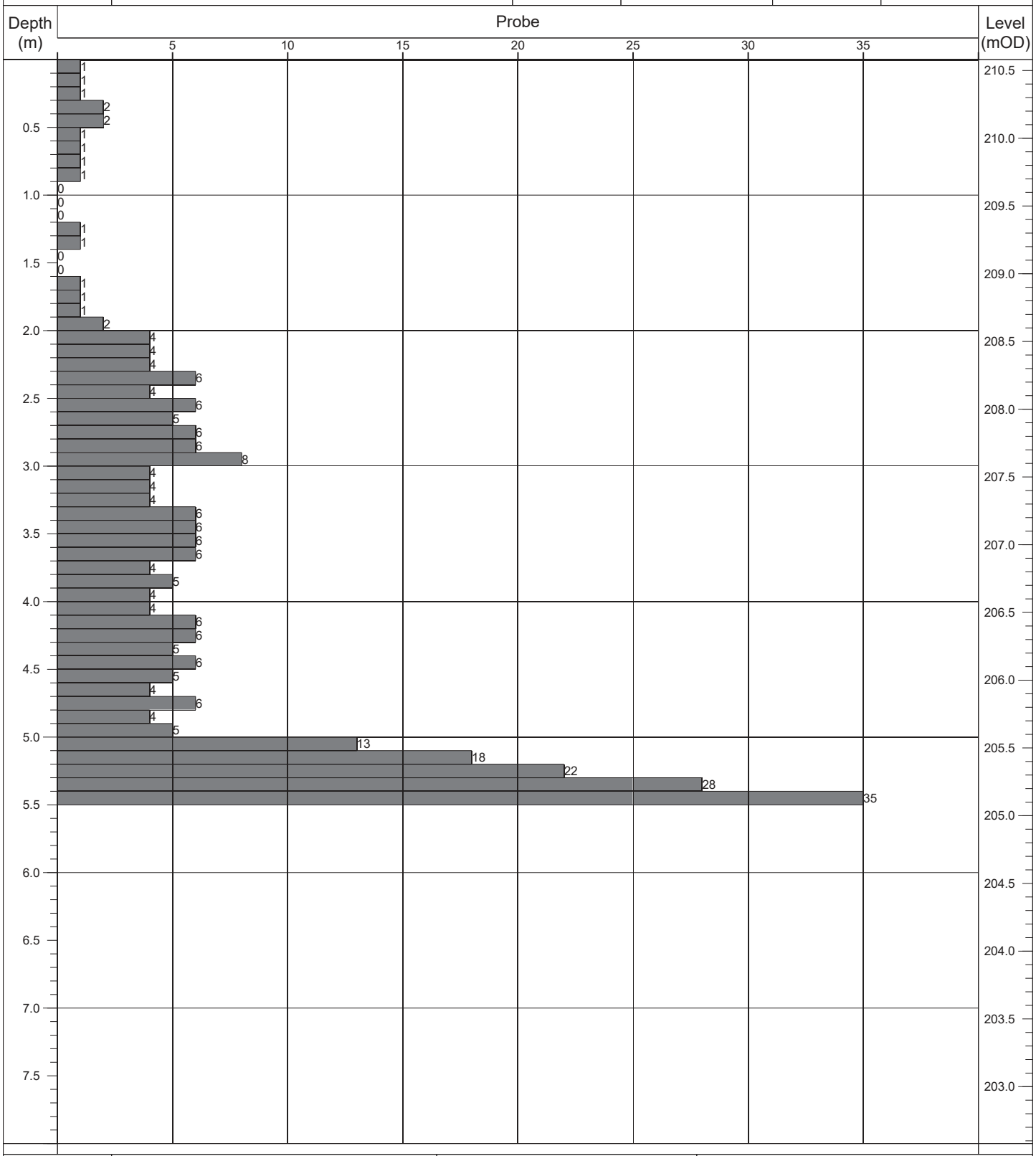
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP266
Contract:	Blessington - Phase 3	Easting:	697766.758	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715242.819	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.80	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



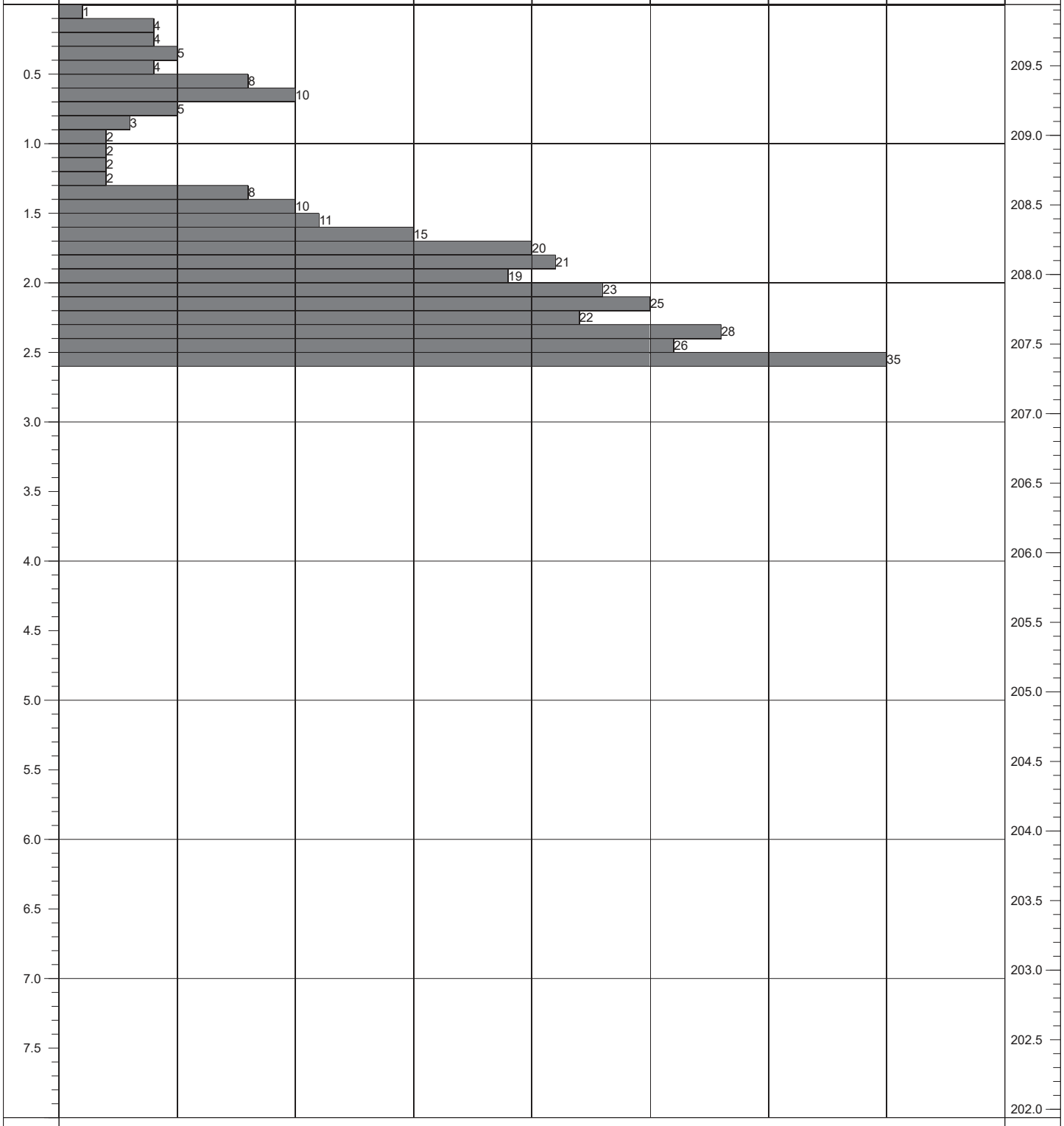
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP267
Contract:	Blessington - Phase 3	Easting:	697771.027	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715238.524	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.58	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



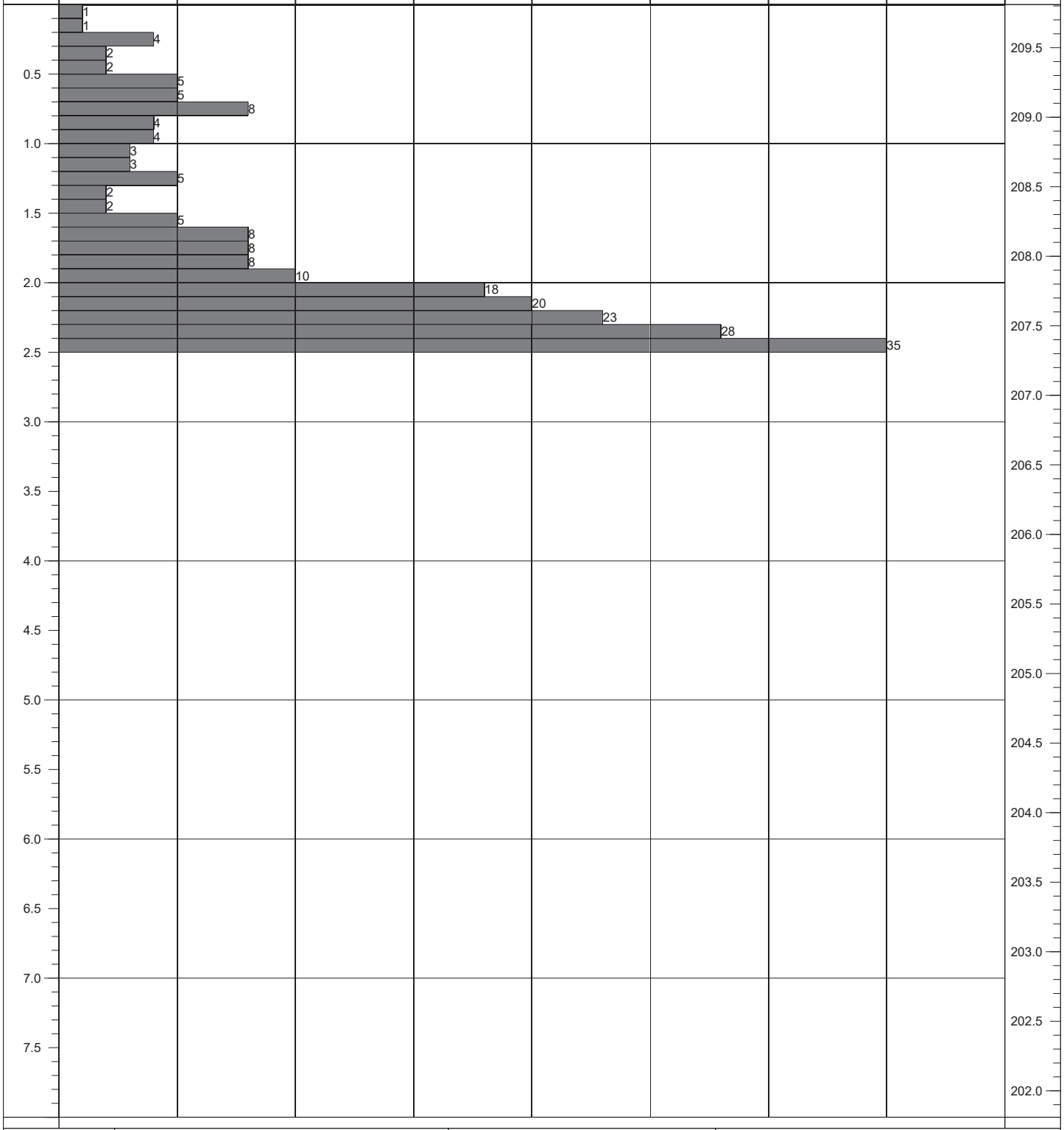
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP268
Contract:	Blessington - Phase 3	Easting:	697751.113	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715206.708	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.94	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



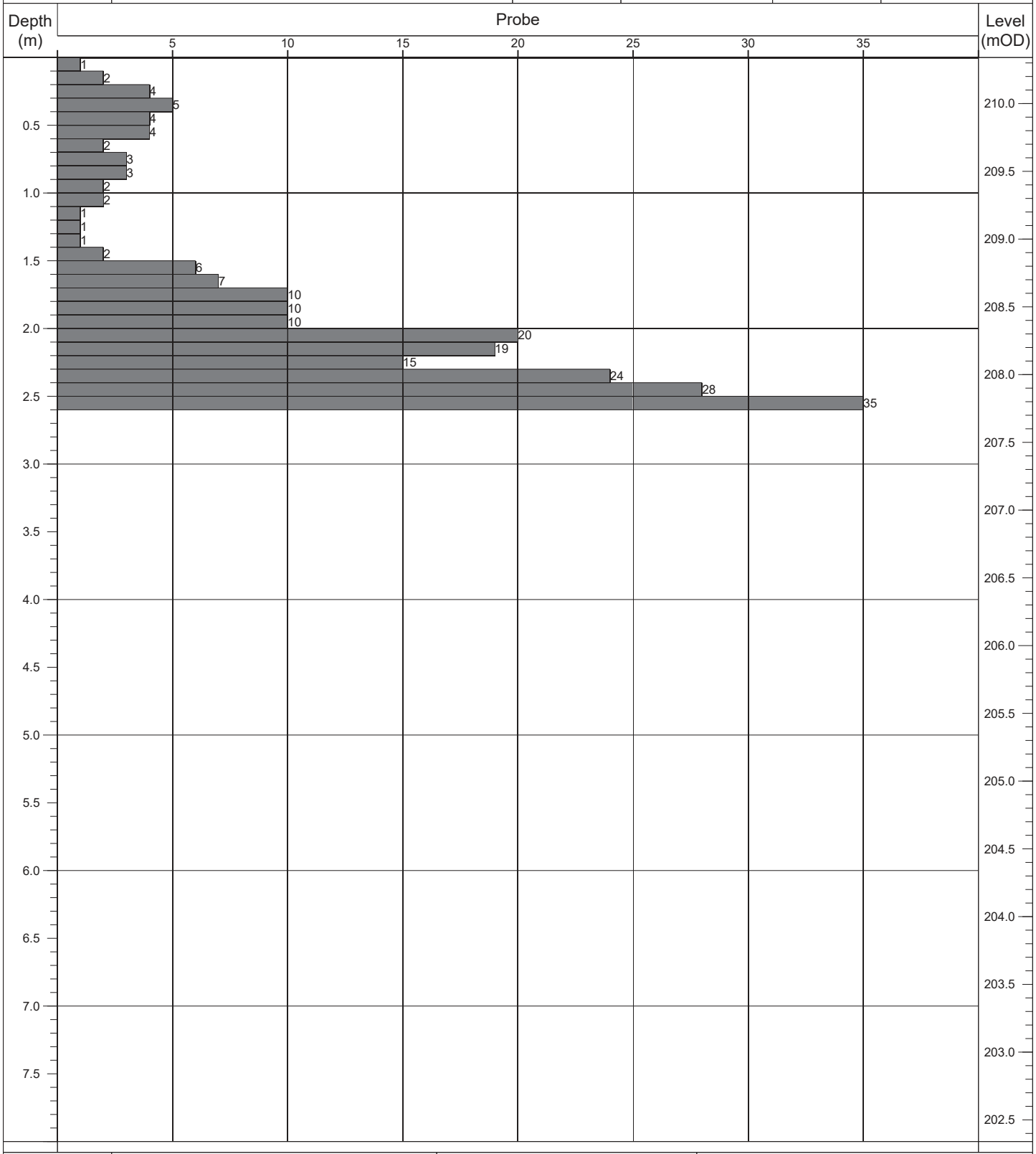
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP269
Contract:	Blessington - Phase 3	Easting:	697747.685	Date Started:	18/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715203.330	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	209.81	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



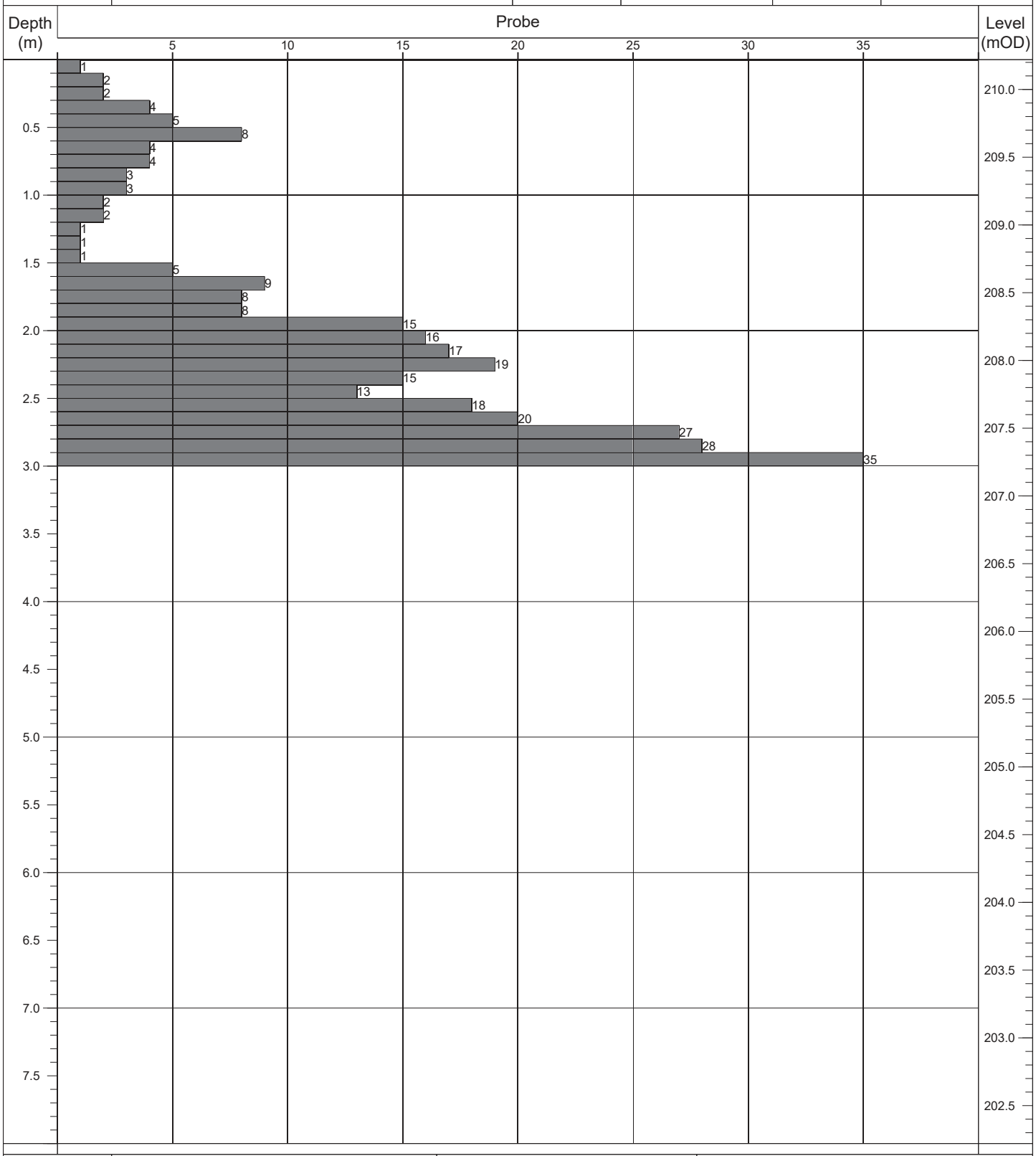
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP270**
Contract:	Blessington - Phase 3	Easting:	697760.627	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715215.834	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.34	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



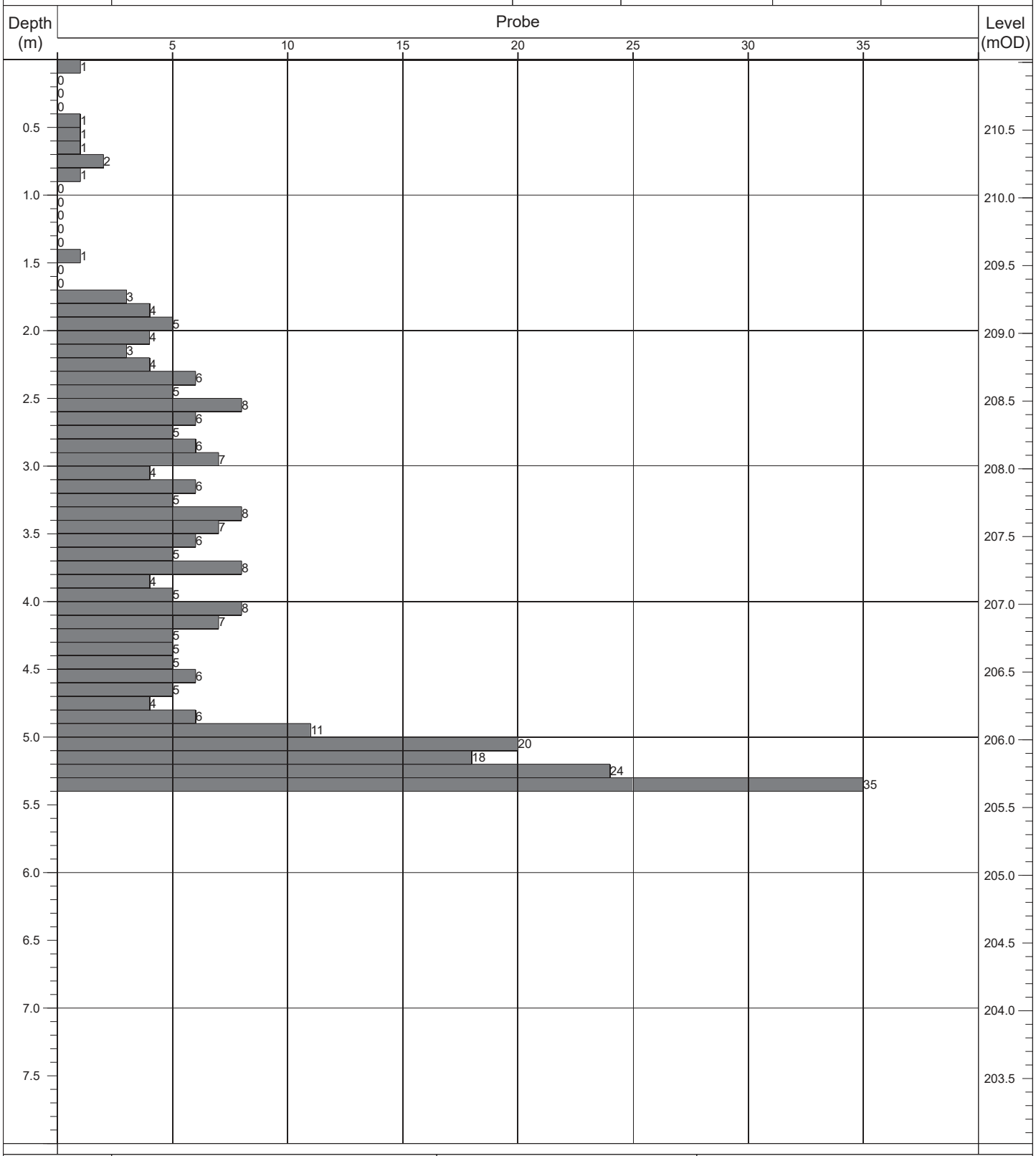
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
2.60m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP271**
Contract:	Blessington - Phase 3	Easting:	697757.032	Date Started:	17/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715212.427	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	210.22	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



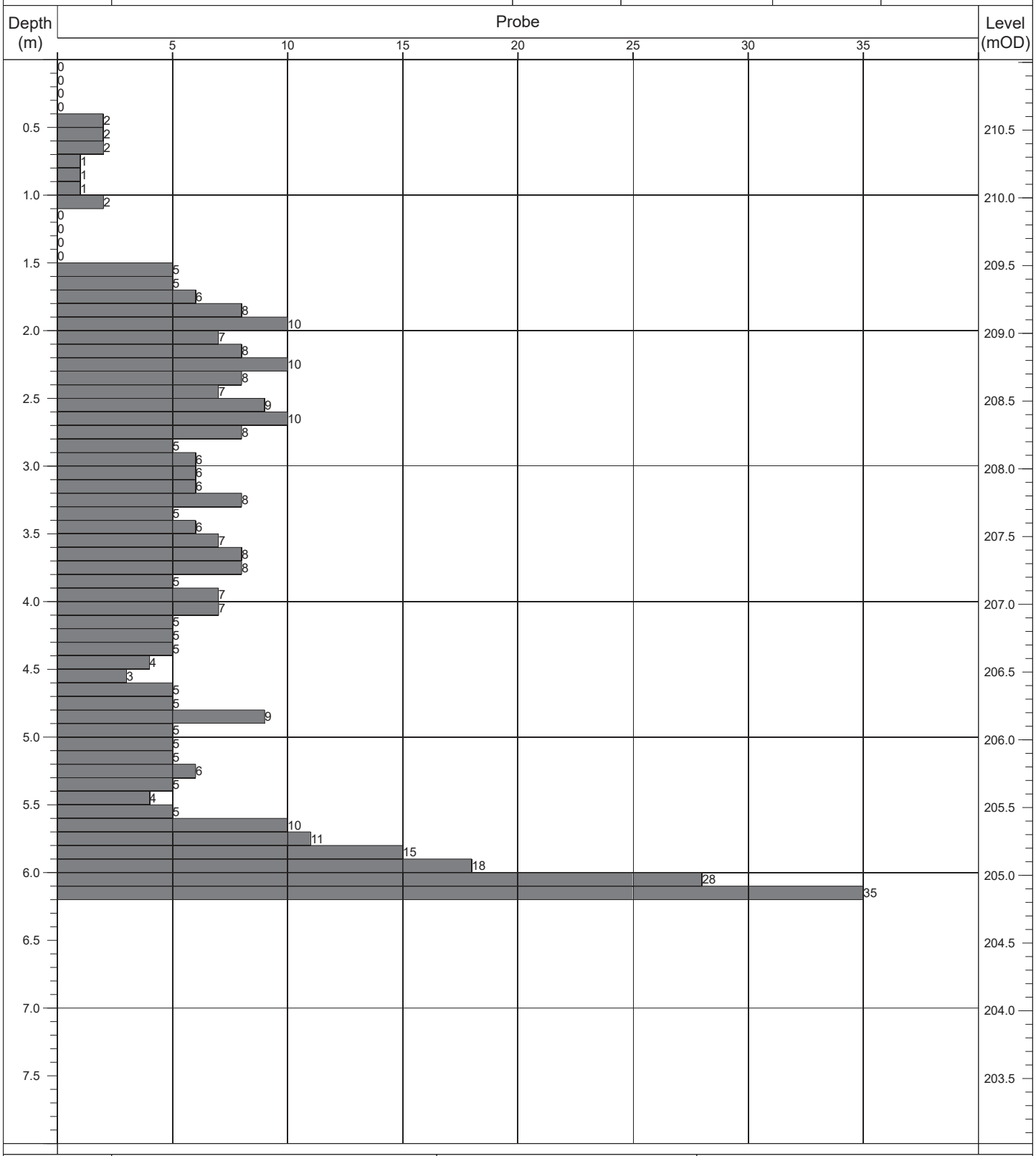
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
3.00m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP272
Contract:	Blessington - Phase 3	Easting:	697762.769	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715246.536	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.02	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



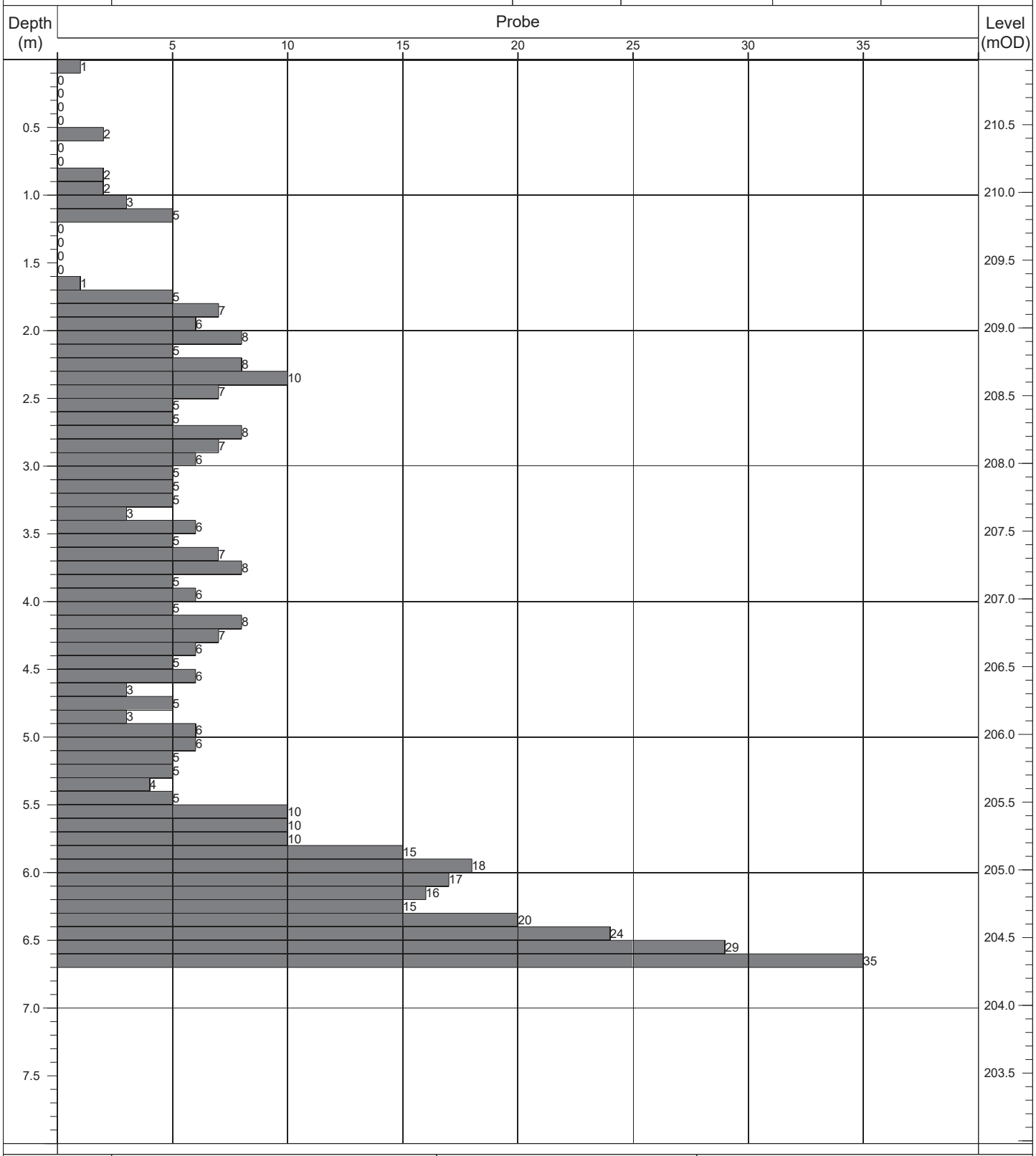
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.40m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP273
Contract:	Blessington - Phase 3	Easting:	697728.119	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715231.496	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	211.02	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



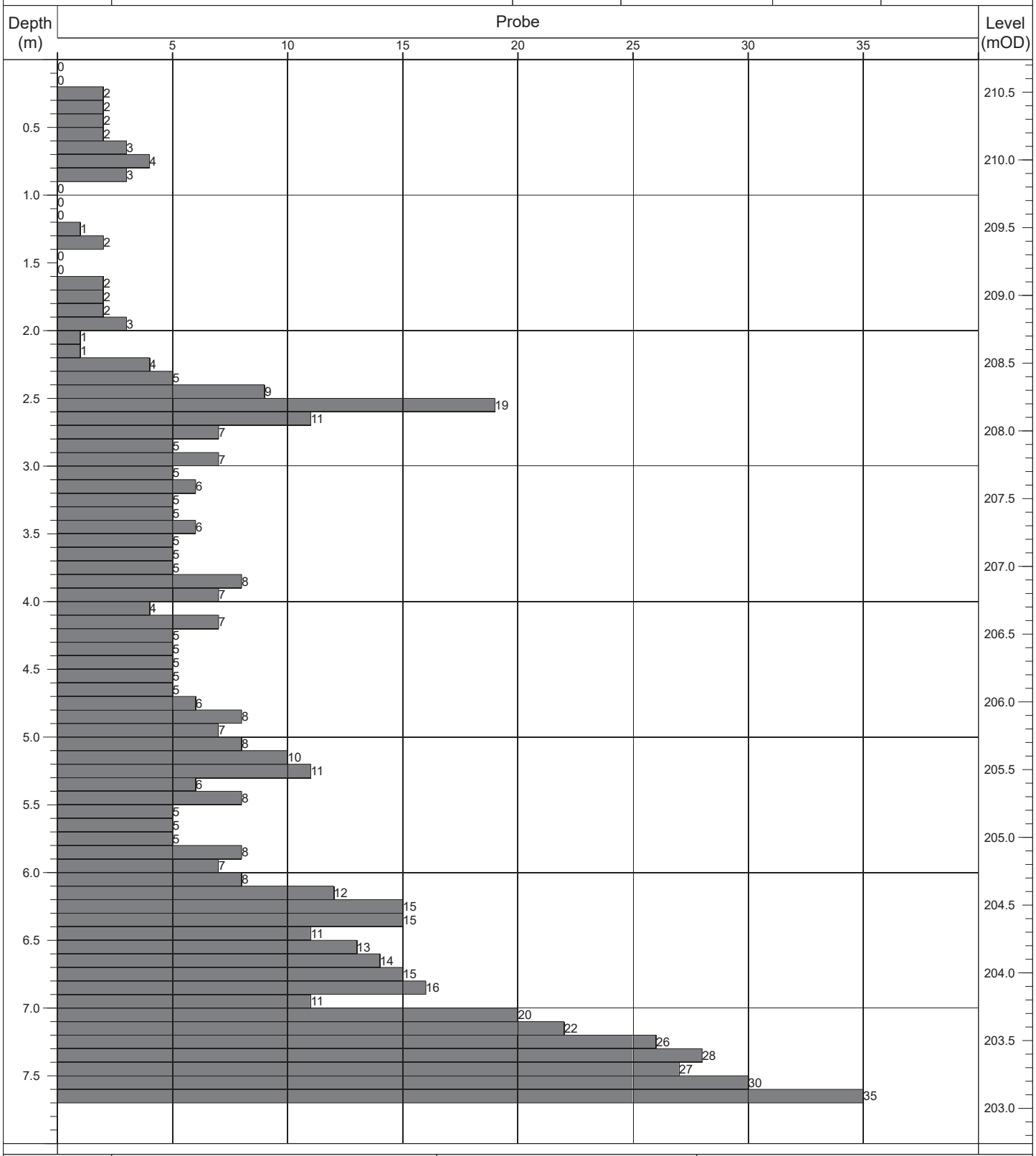
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.20m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP274
Contract:	Blessington - Phase 3	Easting:	697732.452	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715235.926	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	210.98	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



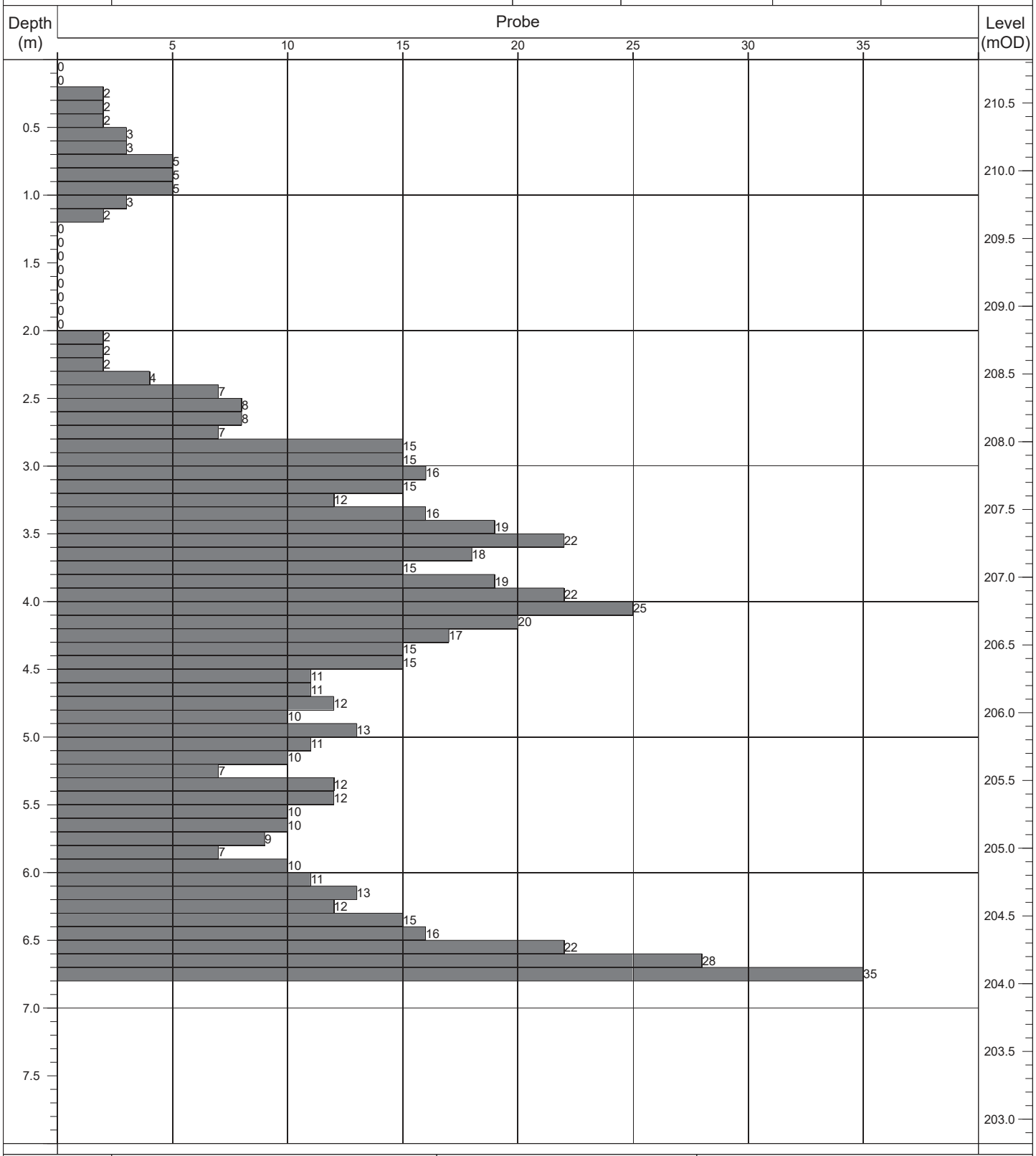
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP275
Contract:	Blessington - Phase 3	Easting:	697713.176	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715216.624	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	210.74	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



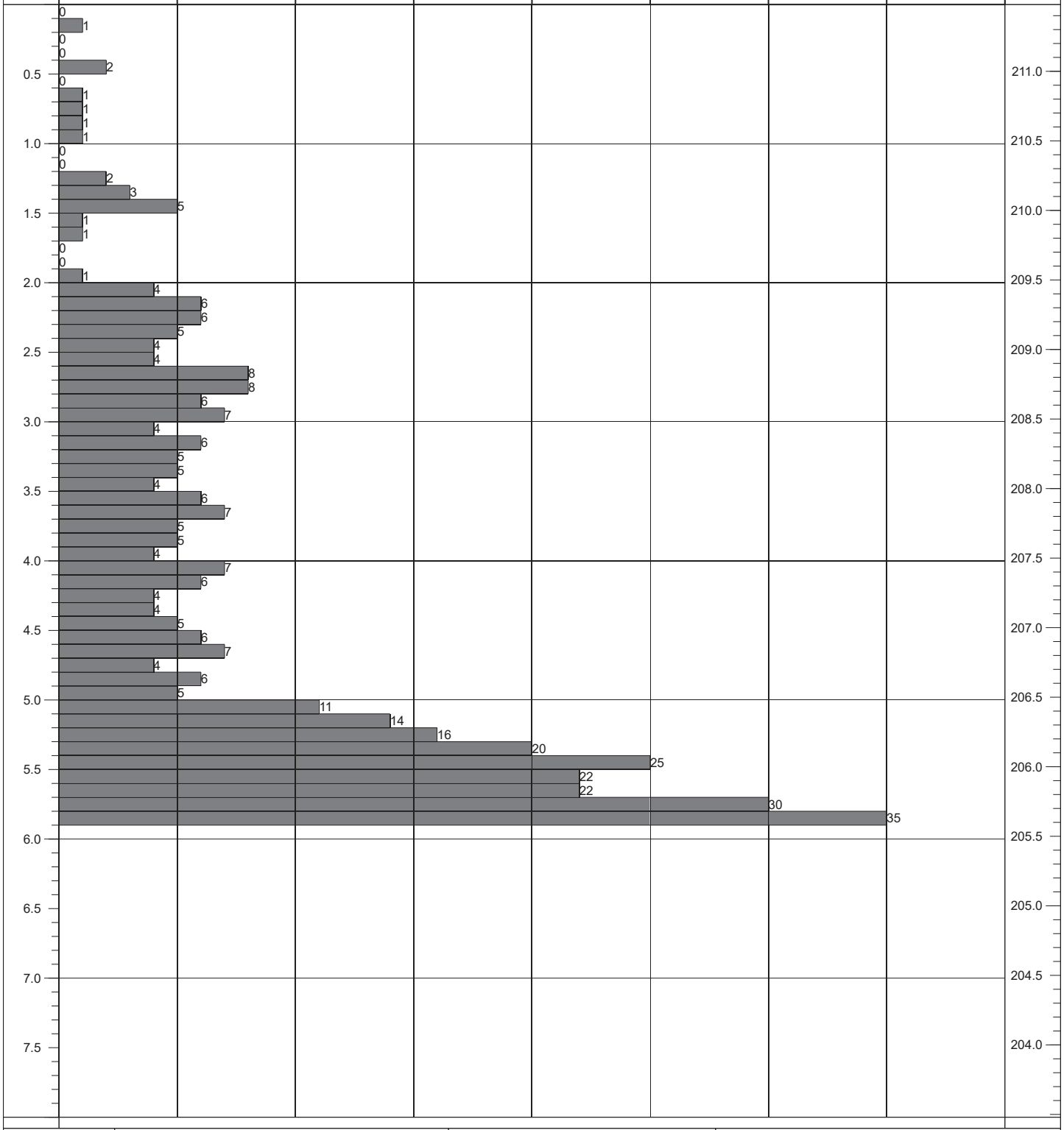
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
7.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP276**
Contract:	Blessington - Phase 3	Easting:	697724.684	Date Started:	13/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715227.495	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	210.82	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



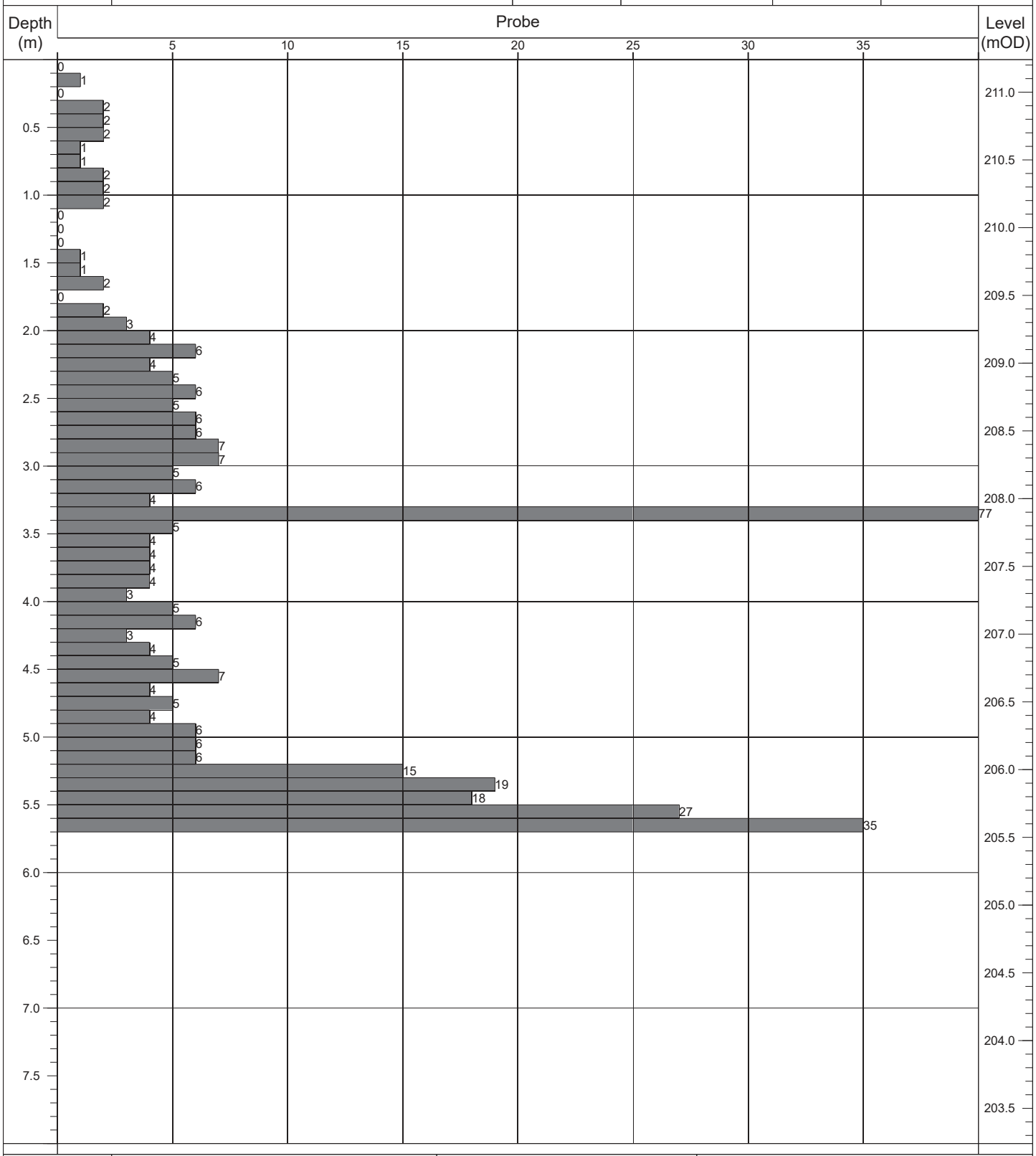
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.80m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP277**
Contract:	Blessington - Phase 3	Easting:	697752.559	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715254.794	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.48	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



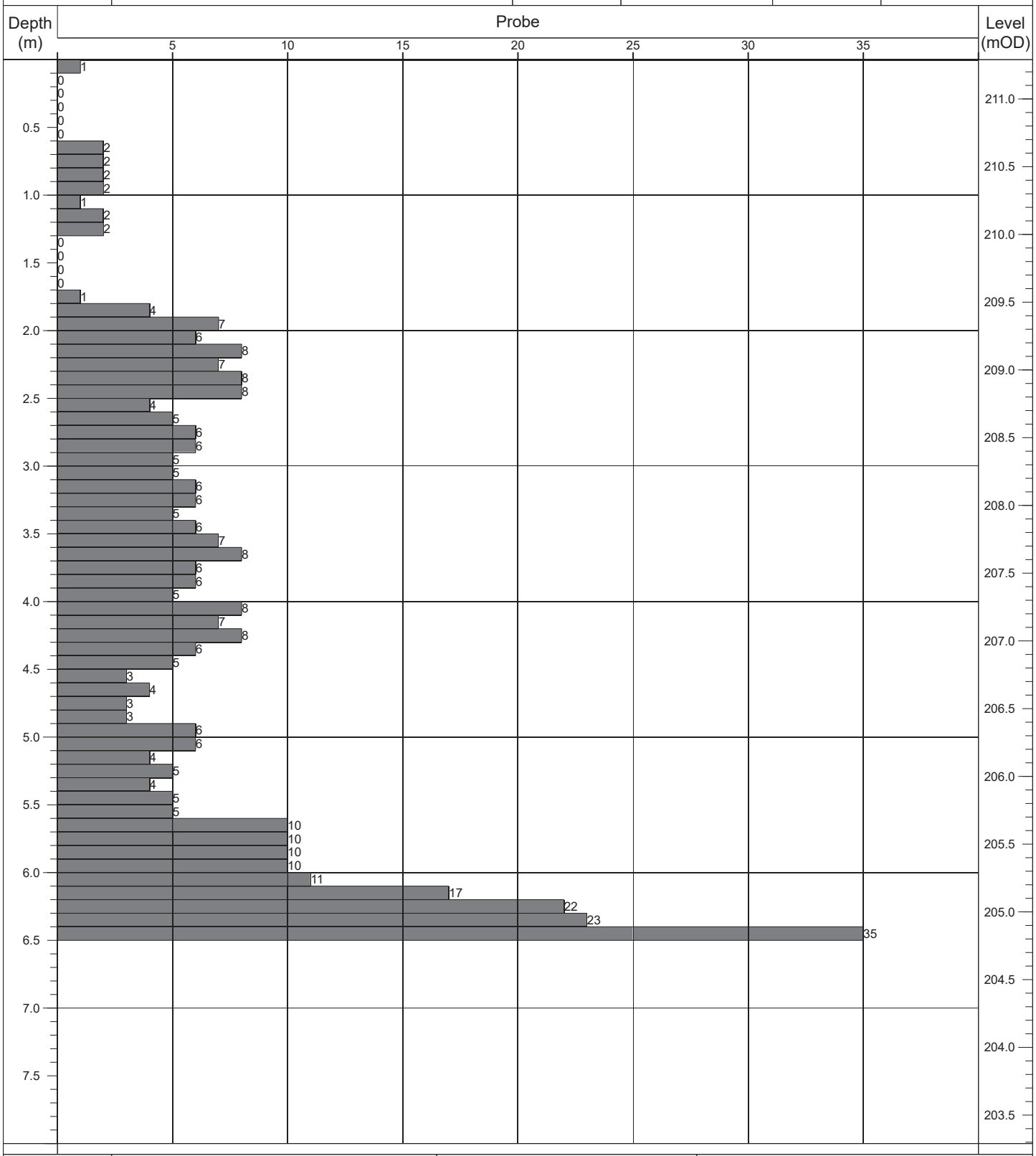
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.90m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	**Dynamic Probe Log**				Probe No: **DP278**
Contract:	Blessington - Phase 3	Easting:	697758.608	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715250.571	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.24	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



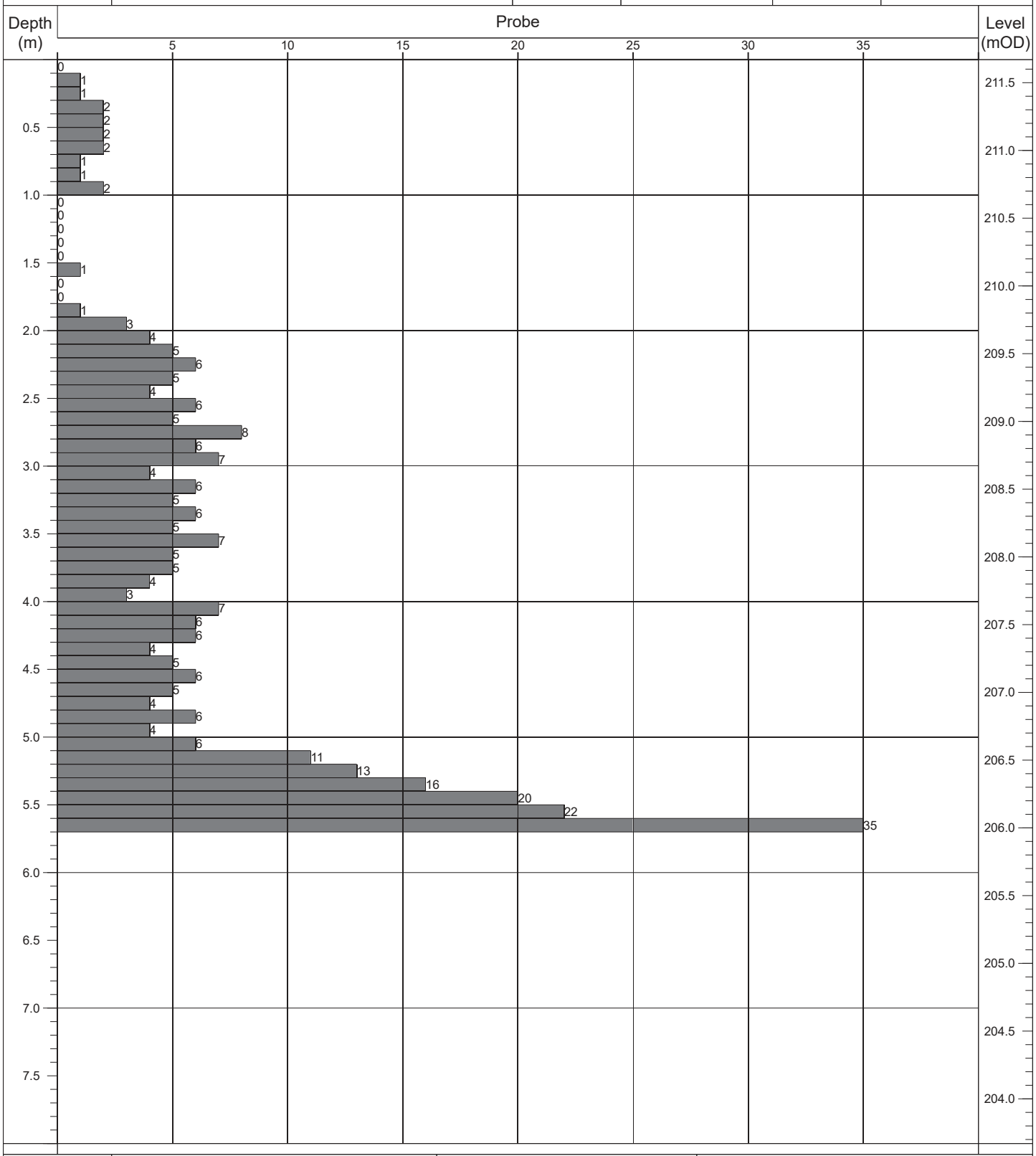
Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.70m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP279
Contract:	Blessington - Phase 3	Easting:	697736.283	Date Started:	17/05/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715238.753	Logged By:	D. Clarke
Client:	Cairn Homes Ltd	Elevation:	211.29	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
6.50m	Obstruction - boulders.	DPH	50kg	500mm	

Contract No: 6100	Dynamic Probe Log				Probe No: DP280
Contract:	Blessington - Phase 3	Easting:	697748.369	Date Started:	05/04/2023
Location:	Oak Drive, Blessington, Co. Wicklow	Northing:	715259.425	Logged By:	B. Holt
Client:	Cairn Homes Ltd	Elevation:	211.67	Scale:	1:40
Engineer:	DBFL	Rig Type:	Competitor 130	Sheet No:	Sheet 1 of 1



Termination:		Probe Details:			Remarks:
Depth:	Reason:	Type:	Mass	Drop:	-
5.70m	Obstruction - boulders.	DPH	50kg	500mm	

Appendix 4
Soakaway Test Results

DRAFT

SOAKAWAY TEST

Project Reference:	6100
Contract name:	Blessington - Phase 3
Location:	Oak Drive, Blessington, Co. Wicklow
Test No:	IT01
Date:	27/04/2023

Ground Conditions

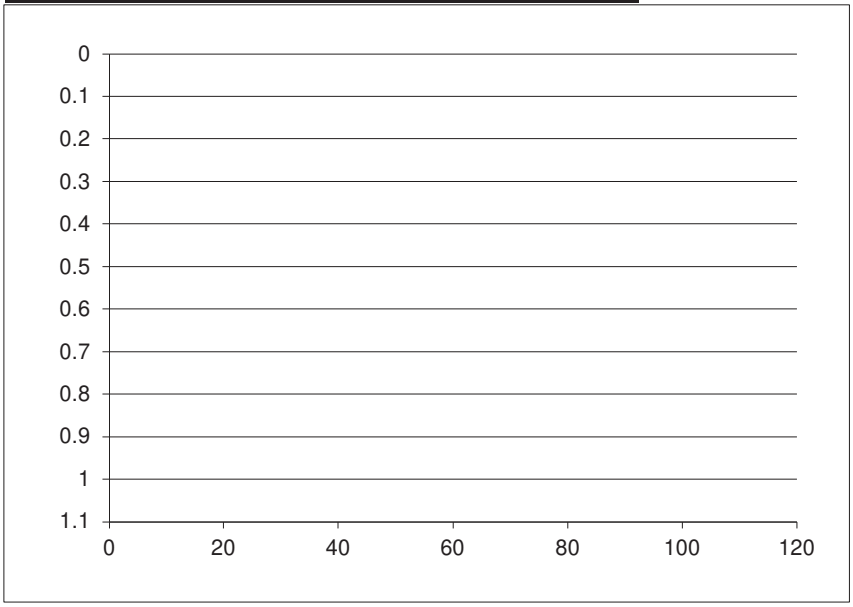
From	To	
0.00	0.40	MADE GROUND: brown sandy slightly gravelly silty clay with occasional plastic pipe and rag fragments.
0.40	0.80	Grey brown silty sandy GRAVEL with medium cobble content.
0.80	2.10	Grey silty sandy GRAVEL with high cobble content.

Remarks:

Filled pit with 1000l and water drained immediately, unable to create head of water due to high permeability.

Elapsed Time (mins)	Fall of Water (m)
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

Pit Dimensions (m)		
Length (m)	3.60	m
Width (m)	0.50	m
Depth	2.10	m
Water		
Start Depth of Water	-	m
Depth of Water	-	m
75% Full	-	m
25% Full	-	m
75%-25%	-	m
Volume of water (75%-25%)	-	m3
Area of Drainage	-	m2
Area of Drainage (75%-25%)	-	m2
Time		
75% Full	-	min
25% Full	-	min
Time 75% to 25%	-	min
Time 75% to 25% (sec)	-	sec



f = **Fail** m/min or **Fail** m/s

SOAKAWAY TEST

Project Reference:	6100
Contract name:	Blessington - Phase 3
Location:	Oak Drive, Blessington, Co. Wicklow
Test No:	IT02
Date:	27/04/2023

Ground Conditions

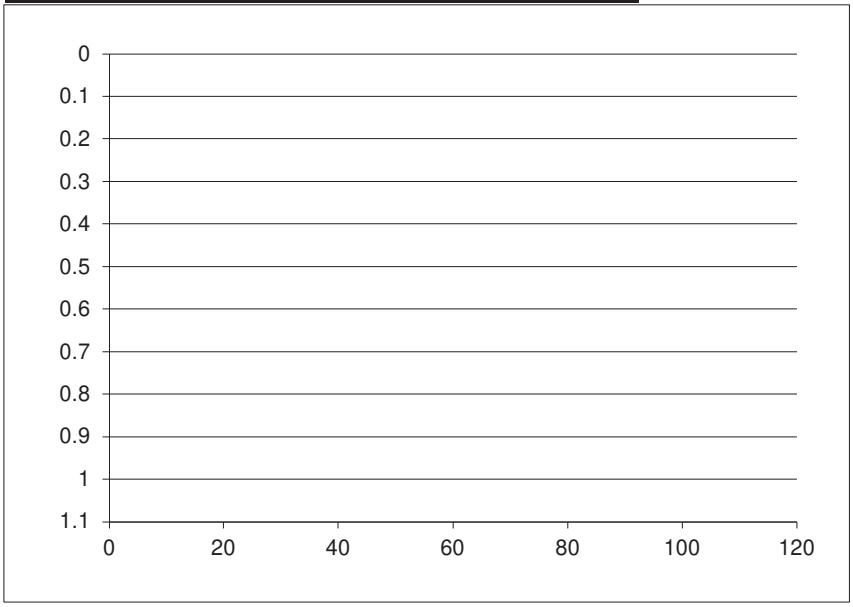
From	To	
0.00	0.40	TOPSOIL.
0.40	0.80	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content.
0.80	1.70	Light brown silty slightly gravelly SAND.
1.70	2.10	Grey brown silty sandy GRAVEL with medium cobble content.

Remarks:

Filled pit with 1000l and water drained immediately, unable to create head of water due to high permeability.

Elapsed Time (mins)	Fall of Water (m)
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

Pit Dimensions (m)		
Length (m)	3.50	m
Width (m)	0.50	m
Depth	2.10	m
Water		
Start Depth of Water	-	m
Depth of Water	-	m
75% Full	-	m
25% Full	-	m
75%-25%	-	m
Volume of water (75%-25%)	-	m3
Area of Drainage	-	m2
Area of Drainage (75%-25%)	-	m2
Time		
75% Full	-	min
25% Full	-	min
Time 75% to 25%	-	min
Time 75% to 25% (sec)	-	sec



f = **Fail** m/min or **Fail** m/s

SOAKAWAY TEST

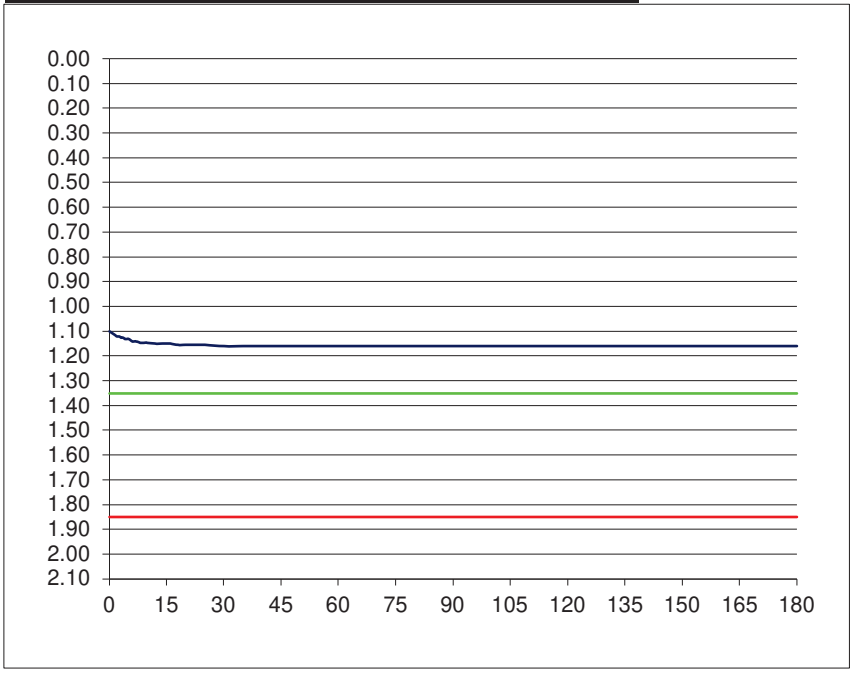
Project Reference:	6100
Contract name:	Blessington - Phase 3
Location:	Oak Drive, Blessington, Co. Wicklow
Test No:	IT03
Date:	27/04/2023

Ground Conditions

From	To	
0.00	0.20	TOPSOIL.
0.20	0.60	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content.
0.60	1.90	Light brown silty slightly gravelly SAND.
1.90	2.10	Light grey brown silty slightly gravelly SAND with frequent silt bands.

Elapsed Time (mins)	Fall of Water (m)
0	1.10
0.5	1.11
1	1.11
1.5	1.12
2	1.12
2.5	1.12
3	1.13
3.5	1.13
4	1.13
4.5	1.13
5	1.13
6	1.14
7	1.14
8	1.15
9	1.15
10	1.15
12	1.15
14	1.15
16	1.15
18	1.16
20	1.16
25	1.16
30	1.16
35	1.16
40	1.16
50	1.16
60	1.16
75	1.16
90	1.16
120	1.16
150	1.16
180	1.16

Pit Dimensions (m)		
Length (m)	2.30	m
Width (m)	0.50	m
Depth	2.10	m
Water		
Start Depth of Water	1.10	m
Depth of Water	1.00	m
75% Full	1.35	m
25% Full	1.85	m
75%-25%	0.50	m
Volume of water (75%-25%)	**0.58**	m3
Area of Drainage	**11.76**	m2
Area of Drainage (75%-25%)	**3.95**	m2
Time		
75% Full	N/A	min
25% Full	N/A	min
Time 75% to 25%	**N/A**	min
Time 75% to 25% (sec)	**N/A**	sec



f = **Fail** m/min or **Fail** m/s

SOAKAWAY TEST

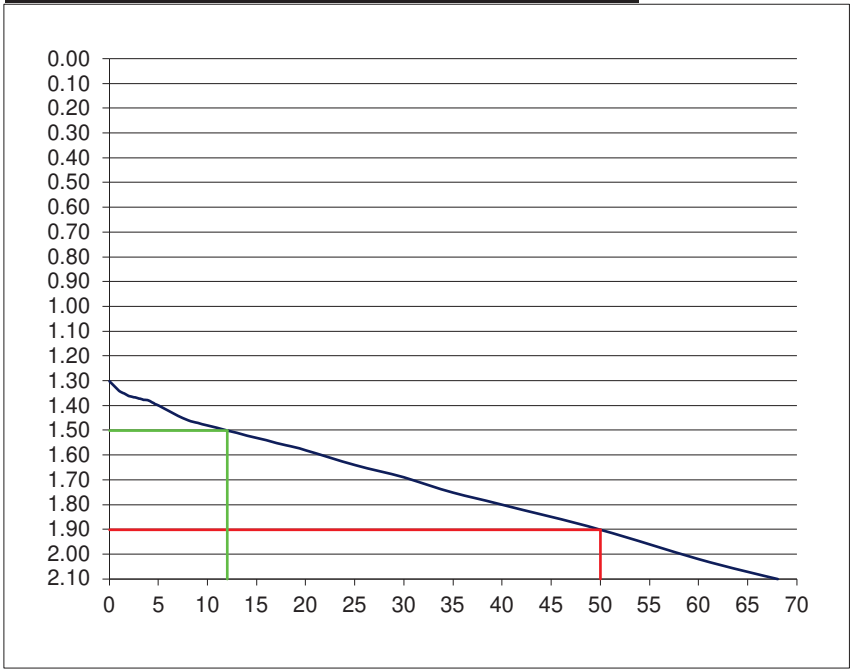
Project Reference:	6100
Contract name:	Blessington - Phase 3
Location:	Oak Drive, Blessington, Co. Wicklow
Test No:	IT04
Date:	27/04/2023

Ground Conditions

From	To	
0.00	0.20	TOPSOIL.
0.20	0.90	Firm grey brown sandy slightly gravelly silty CLAY with low cobble content.
0.90	1.10	Firm light brown sandy slightly gravelly silty CLAY with medium cobble
1.10	2.10	Grey brown slightly silty sandy GRAVEL with medium cobble content.

Elapsed Time (mins)	Fall of Water (m)
0	1.30
0.5	1.32
1	1.34
1.5	1.35
2	1.36
2.5	1.37
3	1.37
3.5	1.38
4	1.38
4.5	1.39
5	1.40
6	1.42
7	1.44
8	1.46
9	1.47
10	1.48
12	1.50
14	1.52
16	1.54
18	1.56
20	1.58
25	1.64
30	1.69
35	1.75
40	1.80
50	1.90
60	2.02
68	2.10

Pit Dimensions (m)		
Length (m)	2.50	m
Width (m)	0.50	m
Depth	2.10	m
Water		
Start Depth of Water	1.30	m
Depth of Water	0.80	m
75% Full	1.50	m
25% Full	1.90	m
75%-25%	0.40	m
Volume of water (75%-25%)	**0.50**	m3
Area of Drainage	**12.60**	m2
Area of Drainage (75%-25%)	**3.65**	m2
Time		
75% Full	12	min
25% Full	50	min
Time 75% to 25%	**38**	min
Time 75% to 25% (sec)	**2280**	sec



f = 0.00360 m/min or **6.01E-05 m/s**

Appendix 5
Slit Trench Logs and Photographs

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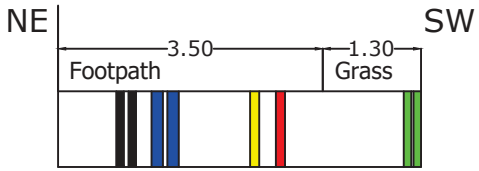
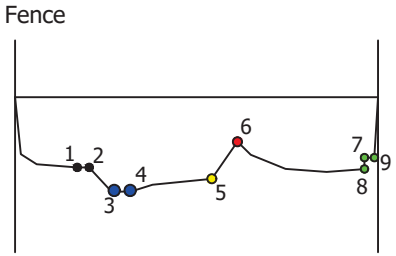
ST01

Plan



Cross Section



Services

No:	Diameter:	Colour:	Utility:	Distance:	Depth:	Alignment:
1	100mm	Black	Telecoms	0.82m	0.88m	90°
2	100mm	Black	Telecoms	0.98m	0.88m	90°
3	160mm	Blue	Water	1.31m	1.16m	90°
4	160mm	Blue	Water	1.52m	1.16m	90°
5	120mm	Yellow	Gas	2.60m	1.02m	90°
6	120mm	Red	ESB	2.94m	0.53m	90°
7	100mm	Green	Telecoms	4.62m	0.75m	90°
8	100mm	Green	Telecoms	4.75m	0.75m	90°
9	100mm	Green	Telecoms	4.62m	0.90m	90°

Ground Conditions

From:	To:	Description:
0.00m	0.11m	MADE GROUND: concrete.
0.11m	0.30m	MADE GROUND: grey gravelly cobbles.
0.30m	0.65m	MADE GROUND: brown silty sandy gravel with high cobble content.
0.65m	1.20m	MADE GROUND: brown grey slightly sandy gravelly silty clay with high cobble content and frequent pockets of gravel.

Trench Dimensions

Point:	Easting:	Northing:	Level:
Start	697627.652	715233.219	211.73
End	697625.411	715228.972	211.58

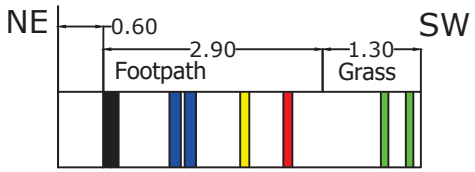
Length:	Width:	Depth:
4.80m	0.62m	1.2m

SITE INVESTIGATIONS LTD

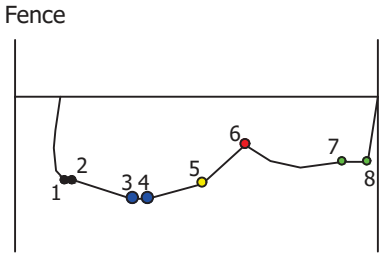
Project:	Blessington - Phase 3	Logged by: M.Kaliski	Excavation Started: 01/06/2023	Excavation Finished: 01/06/2023	CONTRACT NUMBER
Client:	Cairn Homes Ltd	Scale: NOT TO SCALE, ALL DISTANCES IN m			6100
Consultant:	DBFL	DEPTH ARE TO THE TOP OF SERVICES			

ST02

Plan



Cross Section



Services

No:	Diameter:	Colour:	Utility:	Distance:	Depth:	Alignment:
1	100mm	Black	Telecoms	0.65m	1.05m	90°
2	100mm	Black	Telecoms	0.75m	1.05m	90°
3	160mm	Blue	Water	1.55m	1.26m	90°
4	160mm	Blue	Water	1.75m	1.26m	90°
5	120mm	Yellow	Gas	2.47m	1.17m	90°
6	120mm	Red	ESB	3.04m	0.56m	90°
7	100mm	Green	Telecoms	4.32m	0.80m	90°
8	100mm	Green	Telecoms	4.65m	0.80m	90°

Ground Conditions

From:	To:	Description:
0.00m	0.15m	MADE GROUND: concrete.
0.15m	0.25m	MADE GROUND: grey gravelly cobbles.
0.25m	0.45m	MADE GROUND: brown silty sandy gravel with high cobble content.
0.45m	1.30m	MADE GROUND: brown grey slightly sandy gravelly silty clay with high cobble content and frequent pockets of gravel.

Trench Dimensions

Point:	Easting:	Northing:	Level:
Start	697698.922	715191.277	210.24
End	697696.815	715187.636	210.10

Length:	Width:	Depth:
4.20m	0.60m	1.10m

SITE INVESTIGATIONS LTD

Project:	Blessington - Phase 3	Logged by: M. Kaliski	Excavation Started: 01/06/2023	Excavation Finished: 01/06/2023	CONTRACT NUMBER
Client:	Cairn Homes Ltd	Scale: NOT TO SCALE, ALL DISTANCES IN m			6100
Consultant:	DBFL	DEPTH ARE TO THE TOP OF SERVICES			

ST01 looking North East

ST01 looking South West

ST01 Telecom at 0.82 to 0.98m

ST01 Water at 1.31 to 1.52m

ST01 Gas at 2.60m

ST01 ESB at 2.94m

ST01 Telecom at 4.62 to 4.75m

ST02 looking North East

ST02 looking South West

ST02 Telecom at 0.65 to 0.75m

ST02 Water at 1.55 to 1.75m

ST01 Gas at 2.47m

ST01 ESB at 3.04m

ST01 Telecom at 4.32 to 4.65m

Appendix 6
Insitu CBR Test Results

DRAFT

California Bearing Ratio (CBR) In accordance with BS1377: Part 4: Method 7

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I. File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email info@siteinvestigations.ie
Report Date	5th July 2023

CBR No	Depth (mBGL)	Sample No	Sample Type	Lab Ref	Moisture Content (%)	CBR Value (%)	Location / Remarks
01	0.50	MK42	CBR	23/260	16.5	11.6	
02	1.00	MK43	CBR	23/261	18.7	12.5	
03	0.50	MK46	CBR	23/262	17.7	7.3	
04	1.00	MK47	CBR	23/263	18.2	6.2	
05	0.50	MK48	CBR	23/264	13.5	8.3	
06	0.90	MK49	CBR	23/265	16.7	11.4	
07	0.50	MK65	CBR	23/266	14.4	14.1	
08	1.00	MK66	CBR	23/267	13.9	14.1	
09	0.50	MK63	CBR	23/268	12.5	13.4	
10	1.00	MK64	CBR	23/269	18.0	10.4	
11	0.50	MK40	CBR	23/270	17.5	6.4	
12	1.00	MK41	CBR	23/271	6.3	15.4	
13	0.50	MK59	CBR	23/272	18.1	9.4	
14	1.00	MK60	CBR	23/273	23.1	7.3	
15	0.50	MK44	CBR	23/274	4.8	18.7	
16	1.00	MK45	CBR	23/275			No sample due to Archeological zone
17	0.50	MK61	CBR	23/276			No sample due to Archeological zone
18	1.00	MK62	CBR	23/277	13.5	11.0	
19	0.50	MK57	CBR	23/278	15.4	12.1	
20	1.00	MK58	CBR	23/279			
21	0.50	MK53	CBR	23/280	21.0	6.4	
22	1.00	MK54	CBR	23/281	21.4	9.3	
23	0.50	MK55	CBR	23/282	21.2	9.3	

California Bearing Ratio (CBR) In accordance with BS1377: Part 4: Method 7

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I. File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email info@siteinvestigations.ie
Report Date	5th July 2023

CBR No	Depth (mBGL)	Sample No	Sample Type	Lab Ref	Moisture Content (%)	CBR Value (%)	Location / Remarks
24	1.00	MK56	CBR	23/283	20.4	9.3	
25	0.50	MK50	CBR	23/284	19.3	8.1	
26	1.00	MK51	CBR	23/285	20.2	7.7	
27	1.00	MK65	CBR	23/286	25.0	6.0	
28	1.00	MK66	CBR	23/287	25.7	8.9	
29	1.00	MK67	CBR	23/288	24.2	11.0	
30	1.00	MK68	CBR	23/289	18.0	7.3	
31	1.00	MK69	CBR	23/290			No sample due to Archeological zone
32	1.00	MK70	CBR	23/291	17.8	6.0	
33	1.00	MK71	CBR	23/292	13.6	6.9	
34	1.00	MK72	CBR	23/293	20.4	11.0	
35	1.00	MK73	CBR	23/294	18.3	10.2	
36	1.00	MK74	CBR	23/295	5.8	17.2	
37	1.00	MK75	CBR	23/296	6.1	19.3	
38	1.00	MK76	CBR	23/297	17.9	8.1	
39	1.00	MK77	CBR	23/298	20.8	6.4	

Appendix 7
Road Core Details and Photographs

DRAFT

Road Core Survey

Client	Cairn Homes
Site	Blessington - Phase 3
SI File No.	6100 / 23
Test lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email:info@siteinvestigations.ie
Report Date	06/06/2023

Core No	Sample No.	Total Length (mm)	Diameter (mm)	Layer 1 Thickness (mm) / Material Type	Layer 2 Thickness (mm) / Material Type	Comments
1	PM01	105	100	60mm - 20mm Base Course	85mm - 28mm Roadbase Course	1% air voids on layer 1. 2% air voids on layer 2
2	PM02	185	100	60mm - 20mm Base Course	100mm - 28mm Roadbase Course	3% air voids on layer 1. 1% air voids on layer 2

Road Core 01

Road Core 02

Appendix 8
Geotechnical Laboratory Test Results

DRAFT

Classification Tests
In accordance with BS 1377: Part 2

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I. File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email:info@siteinvestigations.ie
Report Date	5th July 2023

Hole ID	Depth	Sample No	Lab Ref No.	Sample Type	Natural Moisture Content %	Liquid Limit %	Plastic Limit %	Plastic Index %	Max. Density Mg/m^2	Bulk Density Mg/m^3	% passing 425um	Comments	**Remarks** **C**=Clay; **M**=Silt **Plasticity**: **L**=Low; **I**=Intermediate; **H**=High; **V**=Very High; **E**=Extremely High
BH01	1.00	DC01	23/600	B	11.5	30	18	12			29.0		CL
BH01	2.00	DC02	23/601	B	5.2	21	NP				8.1		
BH01	8.00	DC08	23/602	B	26.7	39	21	18			91.0		CI
BH02	1.00	DC75	23/603	B	4.6	21	NP				6.4		
BH02	6.00	DC80	23/604	B	5.9	22	NP				9.3		
BH03	1.00	DC23	23/605	B	10.3	31	19	12			26.2		CL
BH03	2.00	DC24	23/606	B	3.2	19	NP				4.5		
BH03	4.00	DC26	23/607	B	14.3	33	19	14			54.0		CL
BH04	1.00	DC12	23/608	B	10.8	31	20	11			28.1		CL
BH04	2.00	DC13	23/609	B	2.7	19	NP				5.7		
BH04	4.00	DC15	23/610	B	27.7	38	19	19			85.4		CI
BH05	1.00	DC33	23/611	B	10.1	31	19	12			49.9		CL
BH05	2.00	DC34	23/612	B	5.0	20	NP				7.4		
RC01	1.00	DC44	23/613	B	11.1	29	19	10			29.1		CL
RC01	2.00	DC45	23/614	B	10.7	25	22	3			27.2		ML
RC01	8.00	DC51	23/615	B	30.1	39	21	18			90.9		CI
RC02	1.00	DC55	23/616	B	16.6	29	19	10			25.5		CL
RC02	5.00	DC59	23/617	B	16.6	33	18	15			61.7		CL
RC03	1.00	DC65	23/618	B	17.1	30	20	10			25.8		CL
RC03	2.00	DC66	23/619	B	27.9	40	20	20			87.5		CI
TP01	1.50	MK74	23/546	B	27.4	42	20	22		2.12	98.3		CI
TP03	2.00	MK67	23/547	B	29.1	38	22	16			69.3		CI
TP05	0.50	MK58	23/548	B	18.9	33	20	13			68.6		CL
TP07	1.00	MK71	23/549	B	15.4	32	19	13			61.2		CL
TP08	1.00	MK119	23/550	B	23.9	30	18	12			38.0		CL

Classification Tests
In accordance with BS 1377: Part 2

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I. File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email:info@siteinvestigations.ie
Report Date	5th July 2023

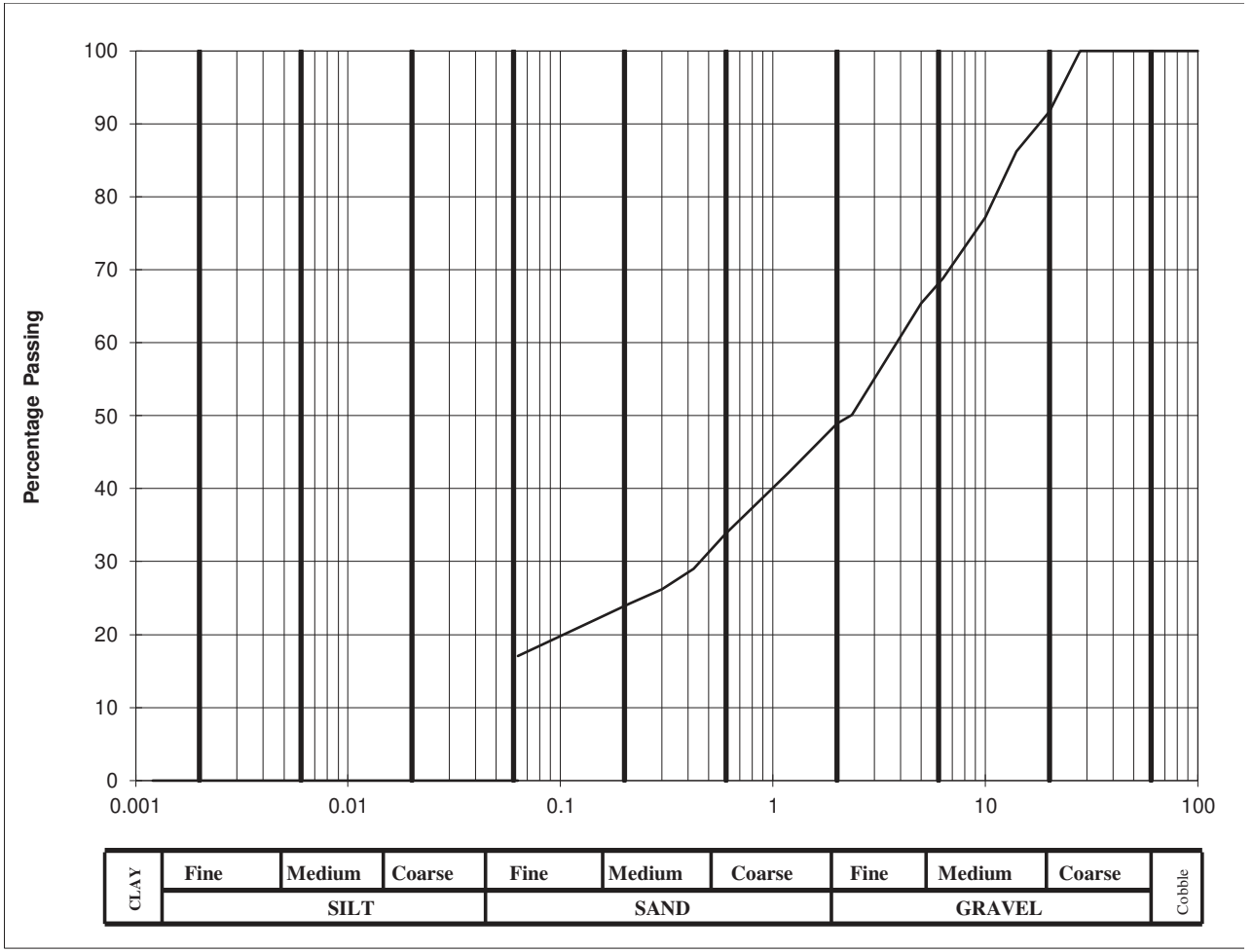
Hole ID	Depth	Sample No	Lab Ref No.	Sample Type	Natural Moisture Content %	Liquid Limit %	Plastic Limit %	Plastic Index %	Max. Density Mg/m^2	Bulk Density Mg/m^3	% passing 425um	Comments	**Remarks** **C**=Clay; **M**=Silt **Plasticity**: **L**=Low; **I**=Intermediate; **H**=High; **V**=Very High; **E**=Extremely High
TP17	1.00	MK41	23/551	B	18.0	36	21	15			66.3		CI
TP21	1.00	MK48	23/552	B	15.4	24	NP				32.2		
TP29	2.00	MK292	23/554	B	23.1	40	21	19		2.19	97.2		CI
TP32	1.00	MK100	23/555	B	17.1	29	25	4			35.4		ML
TP37	0.50	MK76	23/556	B	17.3	32	18	14			54.2		CL
TP38	1.00	MK83	23/557	B	20.8	29	19	10		2.06	56.4		CL
TP41	1.00	MK85	23/558	B	22.2	38	21	17			63.3		CI
TP53	1.00	MK324	23/561	B	22.1	39	21	18			82.6		CI
TP57	0.50	MK424	23/563	B	5.0	24	NP			1.99	14.3		
TP63	1.50	MK437	23/564	B	25.2	39	20	19		2.22	99.4		CI
TP68	0.50	MK309	23/566	B	13.1	23	NP				29.2		
TP77	0.50	MK363	23/567	B	14.2	30	20	10			51.8		CL
TP85	2.00	MK280	23/569	B	19.0	37	22	15		2.11	78.4		CI
TP88	1.50	MK175	23/570	B	27.5	43	21	22		2.18	91.7		CI
TP94	1.50	MK165	23/572	B	15.3	37	20	17			77.2		CI
TP112	1.00	MK27	23/576	B	14.4	36	19	17		2.08	78.3		CI
TP116	0.50	MK20	23/578	B	7.9	26	NP				28.2		
TP130	1.50	MK152	23/579	B	15.9	36	20	16		2.09	81.3		CI
TP142	1.50	MK271	23/581	B	22.6	34	19	15		2.04	43.3		CL
TP144	1.00	MK232	23/582	B	18.3	32	18	14		2.03	42.8		CL
TP145	1.50	MK238	23/583	B	16.2	40	20	20			82.3		CI
TP151	1.00	MK223	23/585	B	20.6	33	20	13		2.04	78.3		CL
TP159	0.50	MK262	23/587	B	13.3	31	19	12			58.3		CL
TP167	0.50	MK353	23/588	B	18.2	34	19	15		2.02	45.5		CL
TP173	1.50	MK297	23/590	B	19.2	35	20	15		2.04	47.6		CL/CI

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	91.7		
14	86.2		
10	77.2		
6.3	68.8		
5.0	65.4		
2.36	50.1		
2.00	48.9		
1.18	42.2		
0.600	33.8		
0.425	29		
0.300	26.2		
0.212	24.2		
0.150	22.2		
0.063	17		

Cobbles, %	0
Gravel, %	51
Sand, %	32
Clay / Silt, %	17



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/600
Sample No :	DC01

Hole ID :	BH 01
Depth, m :	1.00

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

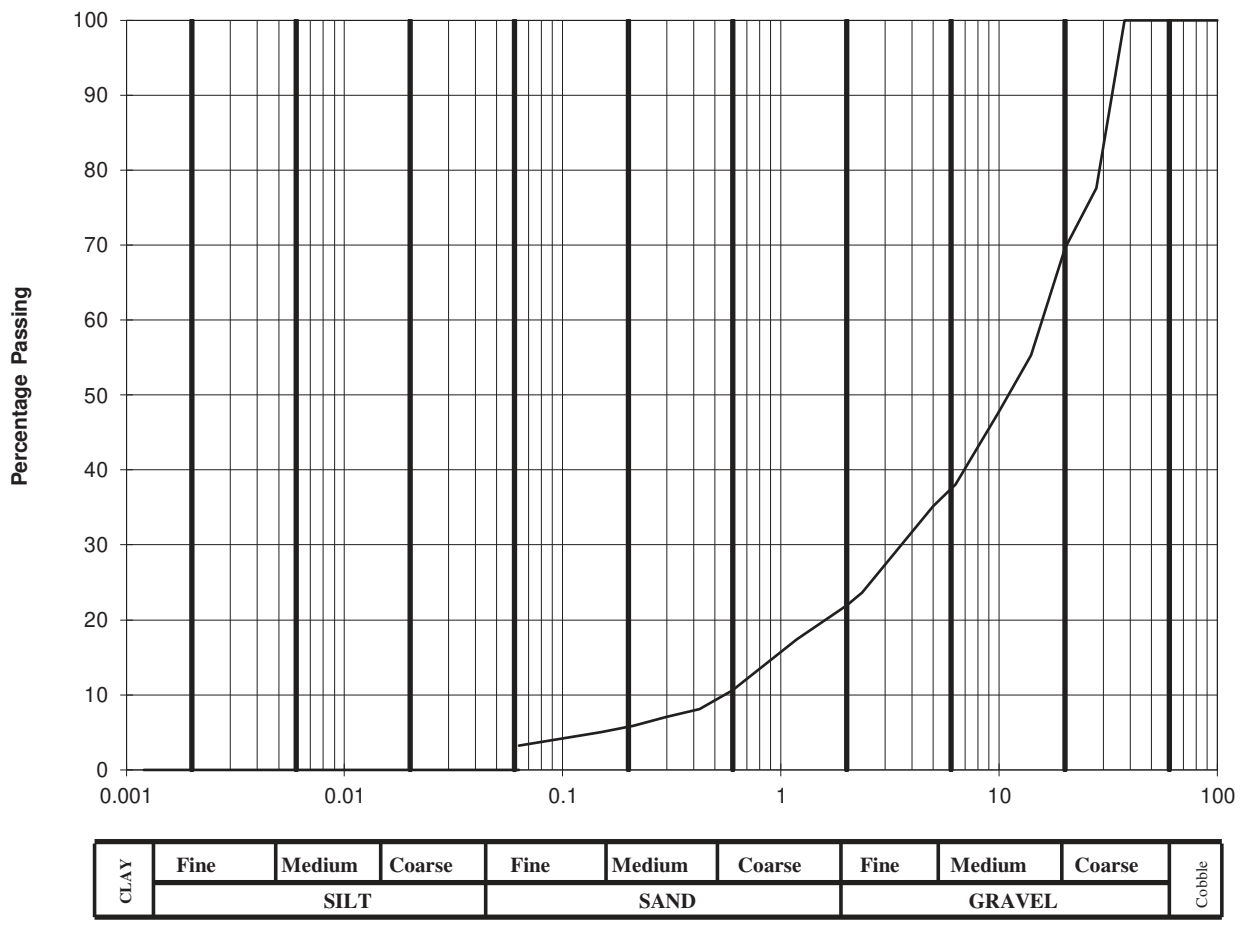
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	77.6		
20	69.6		
14	55.3		
10	47.8		
6.3	38.1		
5.0	35.2		
2.36	23.6		
2.00	21.9		
1.18	17.4		
0.600	10.6		
0.425	8.1		
0.300	7.1		
0.212	5.9		
0.150	5		
0.063	3		

Cobbles, %	0
Gravel, %	78
Sand, %	19
Clay / Silt, %	3



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/601
Sample No :	DC02

Hole ID :	BH 01
Depth, m :	2.00

Material description :	slightly silty sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

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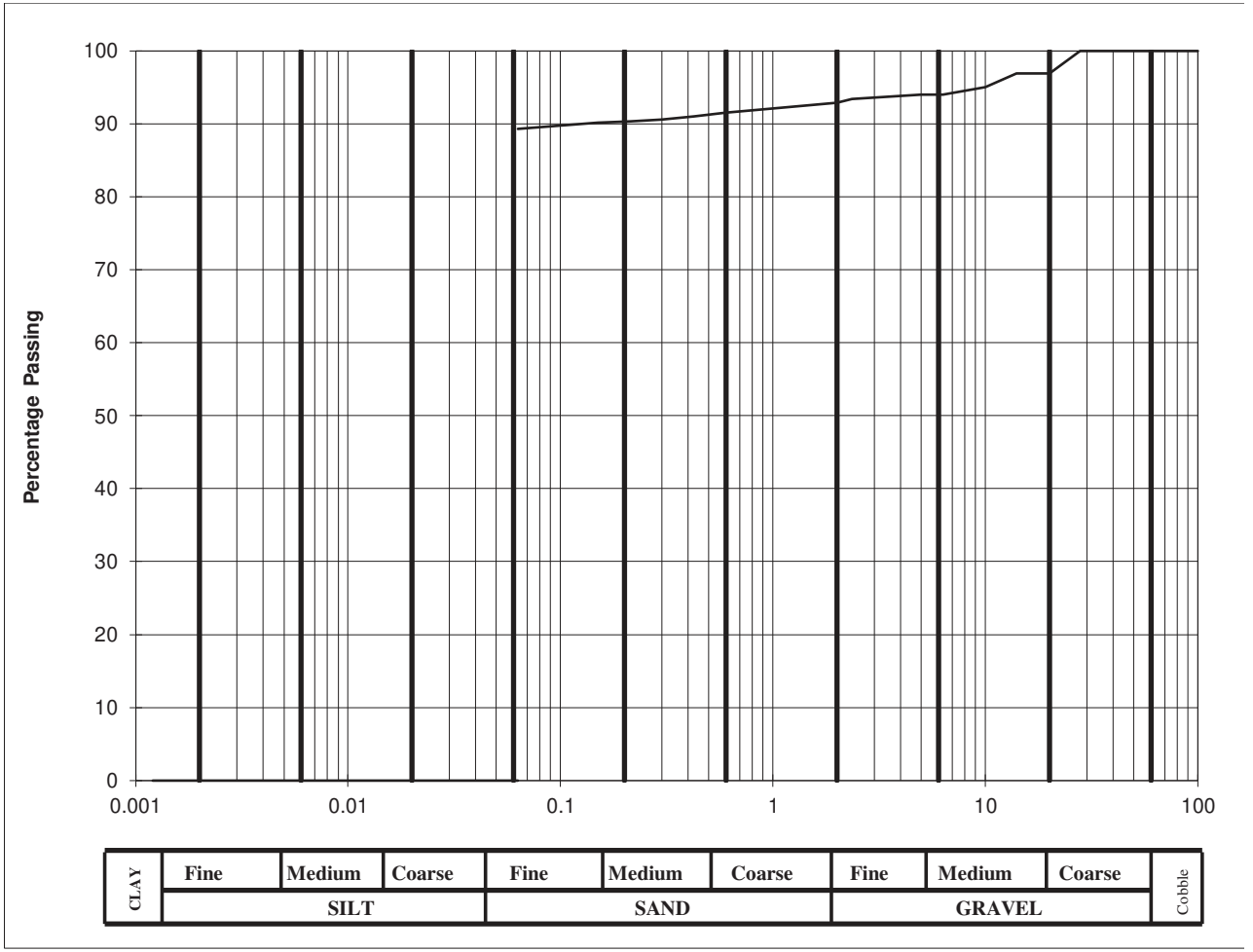
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	96.9		
14	96.9		
10	95		
6.3	94		
5.0	94		
2.36	93.4		
2.00	92.9		
1.18	92.3		
0.600	91.5		
0.425	91		
0.300	90.6		
0.212	90.3		
0.150	90.1		
0.063	89		

Cobbles, %	0
Gravel, %	7
Sand, %	4
Clay / Silt, %	89



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/602
Sample No :	DC08

Hole ID :	BH 01
Depth, m :	8.00

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

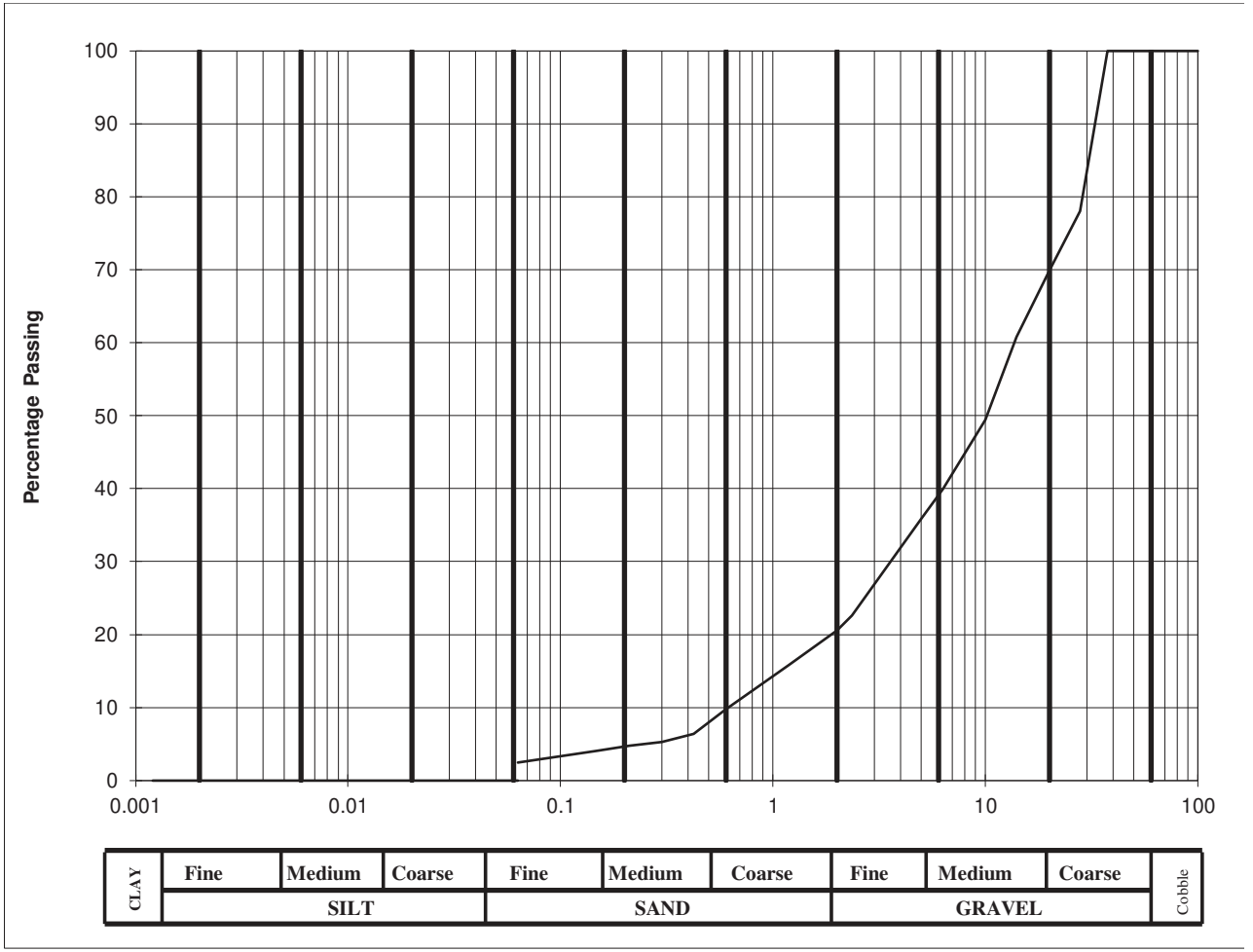
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	78		
20	69.9		
14	60.8		
10	49.4		
6.3	39.9		
5.0	35.8		
2.36	22.6		
2.00	20.6		
1.18	15.8		
0.600	9.7		
0.425	6.4		
0.300	5.3		
0.212	4.8		
0.150	4.1		
0.063	3		

Cobbles, %	0
Gravel, %	79
Sand, %	18
Clay / Silt, %	3



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/603
Sample No :	DC75

Hole ID :	BH 02
Depth, m :	1.00

Material description :	slightly silty sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

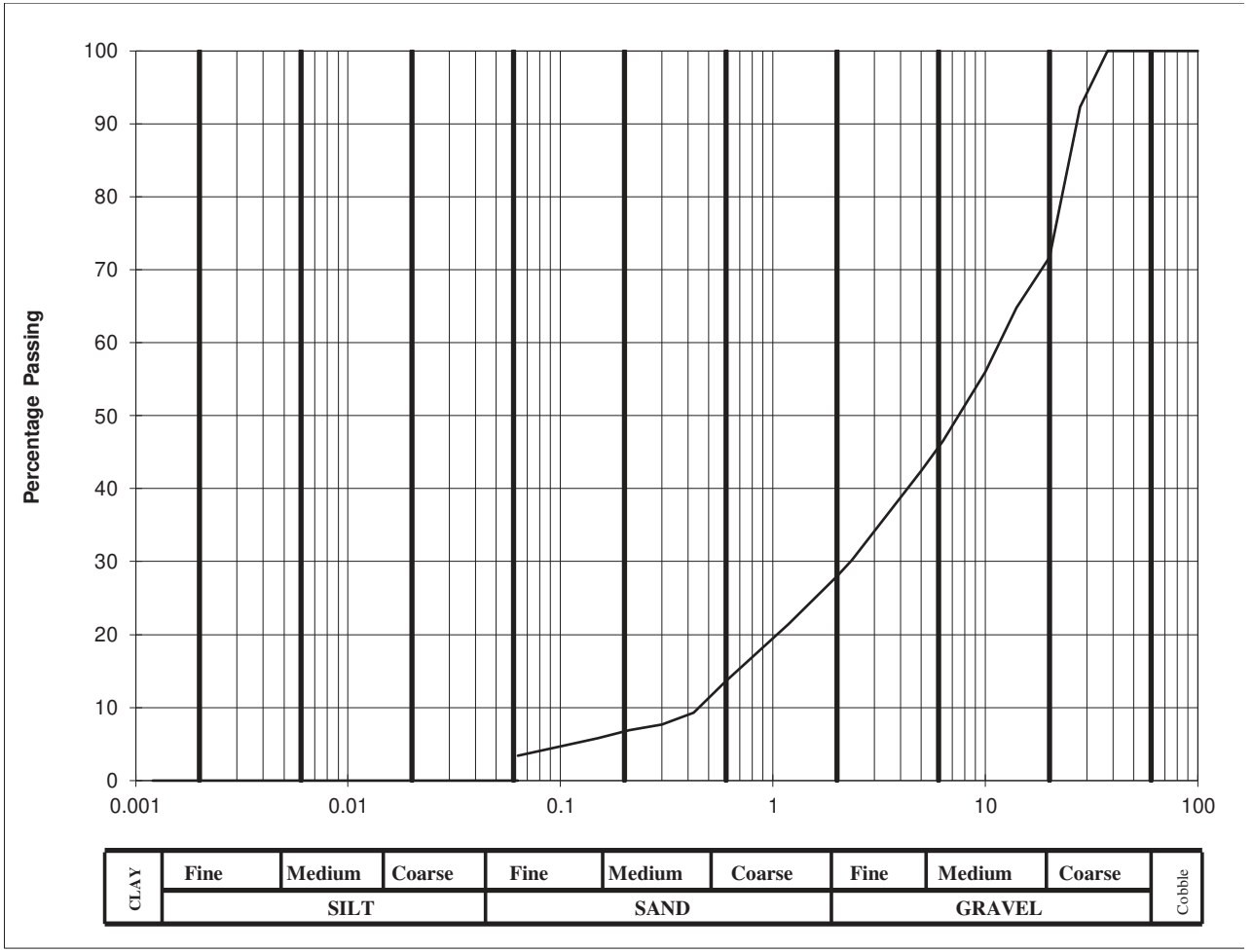
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	92.3		
20	71.7		
14	64.8		
10	56		
6.3	46.5		
5.0	42.4		
2.36	30.2		
2.00	28		
1.18	21.4		
0.600	13.6		
0.425	9.3		
0.300	7.7		
0.212	6.9		
0.150	5.8		
0.063	3		

Cobbles, %	0
Gravel, %	72
Sand, %	25
Clay / Silt, %	3



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/604
Sample No :	DC80

Hole ID :	BH 02
Depth, m :	6.00

Material description :	slightly silty sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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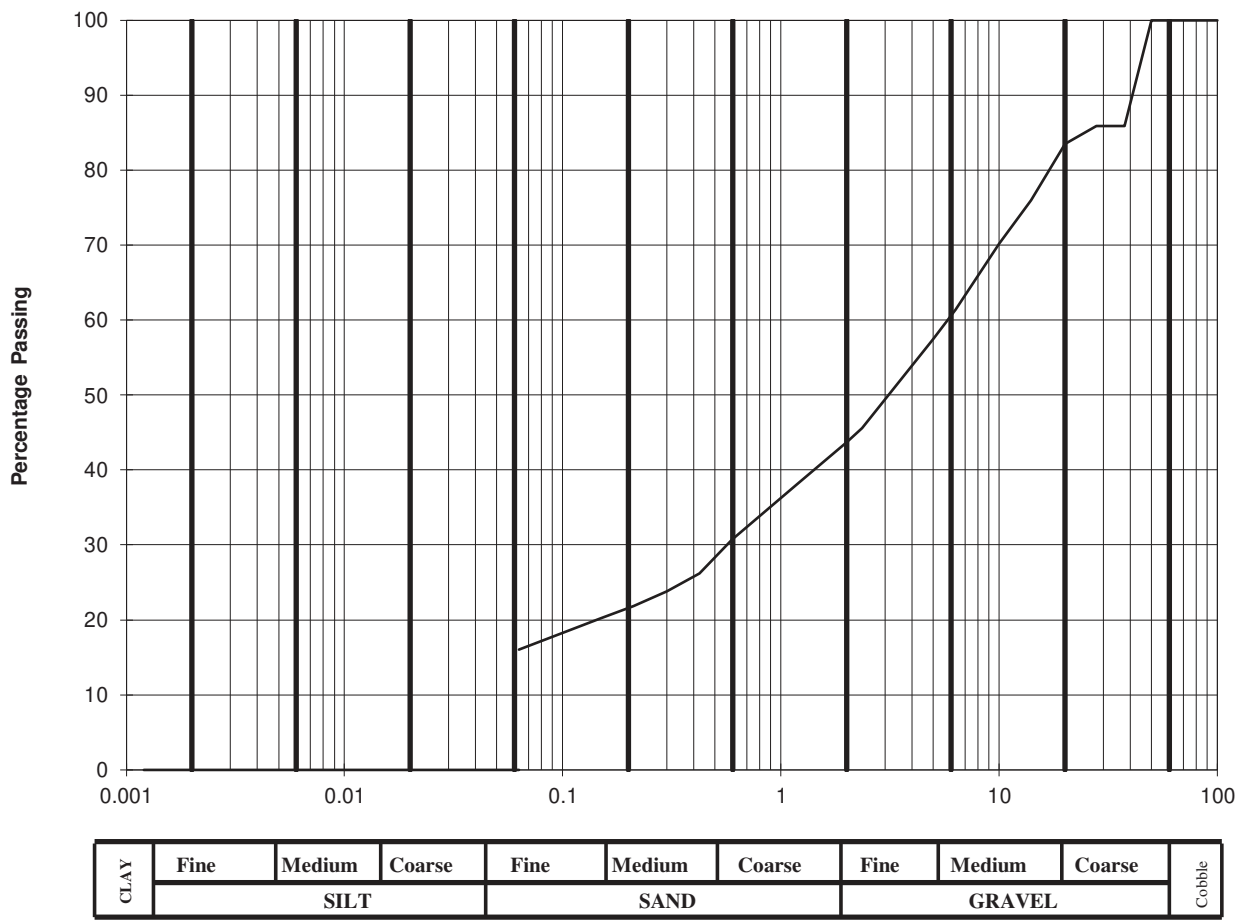
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	85.9		
28	85.9		
20	83.5		
14	76		
10	70.2		
6.3	61.4		
5.0	57.4		
2.36	45.6		
2.00	43.7		
1.18	38.1		
0.600	30.7		
0.425	26.2		
0.300	23.8		
0.212	21.8		
0.150	20.2		
0.063	16		

Cobbles, %	0
Gravel, %	56
Sand, %	28
Clay / Silt, %	16



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/605
Sample No :	DC23

Hole ID :	BH 03
Depth, m :	1.00

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
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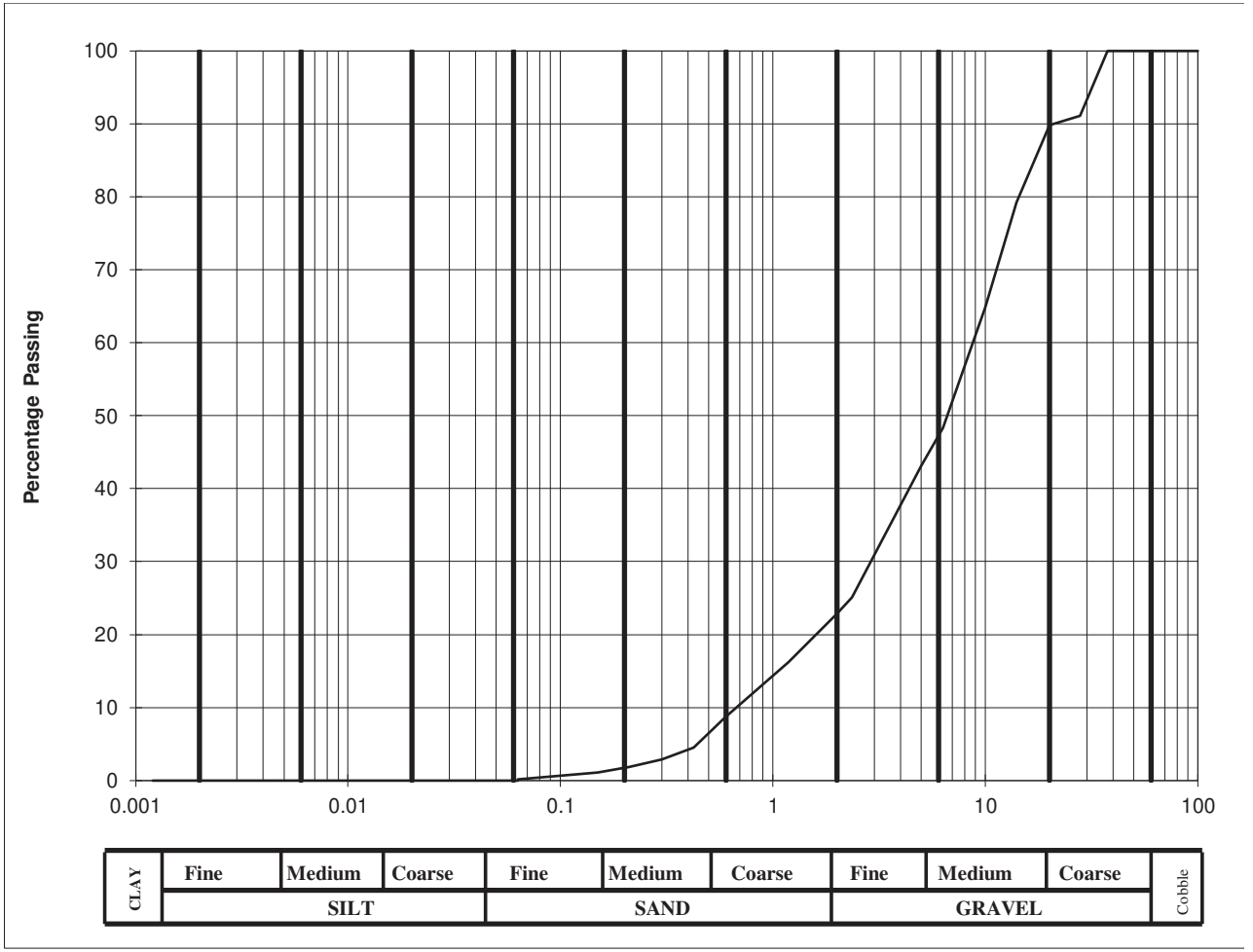
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	91.1		
20	89.8		
14	79.2		
10	64.9		
6.3	48.3		
5.0	43.1		
2.36	25.1		
2.00	22.9		
1.18	16.2		
0.600	8.7		
0.425	4.5		
0.300	2.9		
0.212	1.9		
0.150	1.1		
0.063	0		

Cobbles, %	0
Gravel, %	77
Sand, %	23
Clay / Silt, %	0



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/606
Sample No :	DC24

Hole ID :	BH 03
Depth, m :	2.00

Material description :	very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

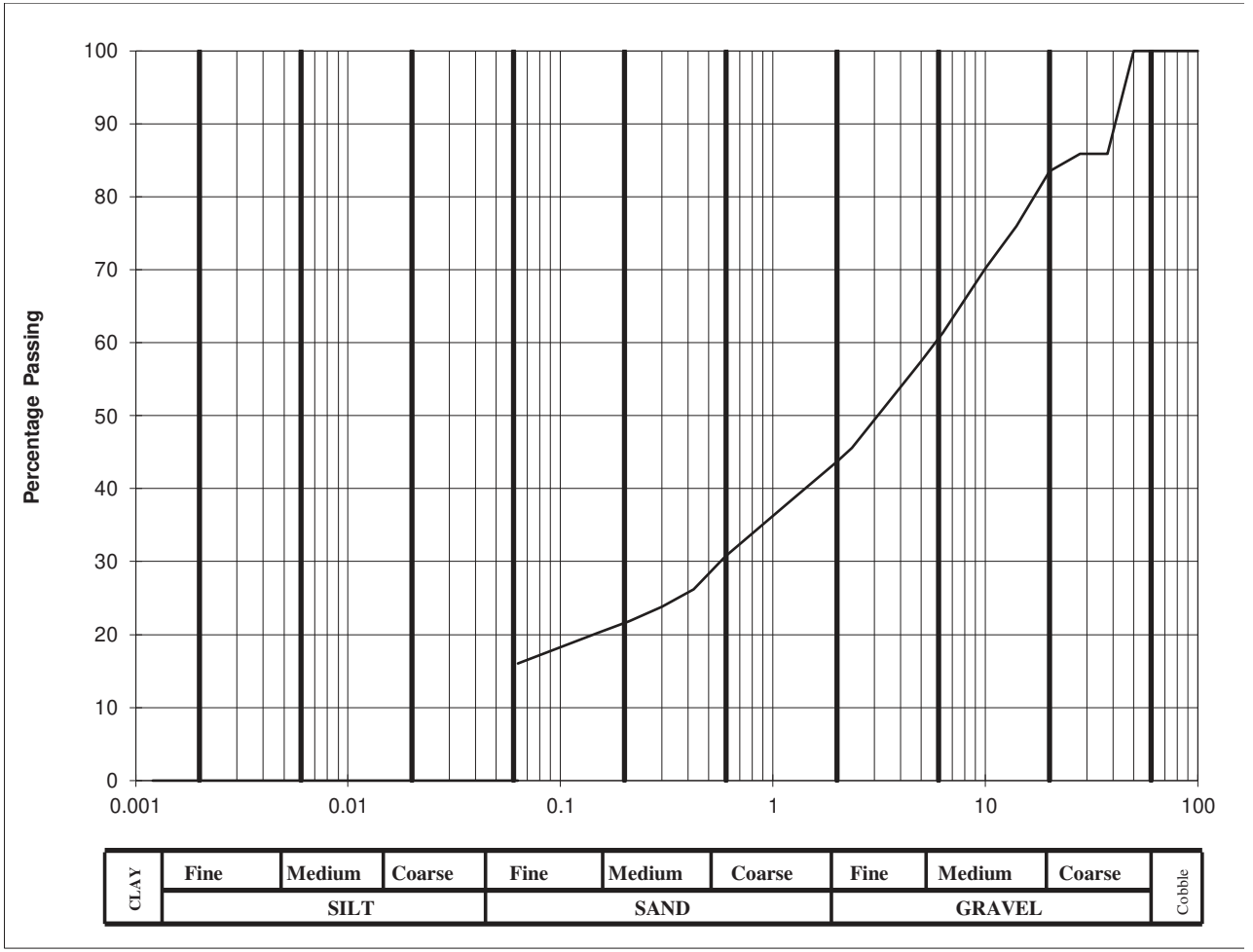
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	85.9		
28	85.9		
20	83.5		
14	76		
10	70.2		
6.3	61.4		
5.0	57.4		
2.36	45.6		
2.00	43.7		
1.18	38.1		
0.600	30.7		
0.425	26.2		
0.300	23.8		
0.212	21.8		
0.150	20.2		
0.063	16		

Cobbles, %	0
Gravel, %	56
Sand, %	28
Clay / Silt, %	16



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/607
Sample No :	DC26

Hole ID :	BH 03
Depth, m :	4.00

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

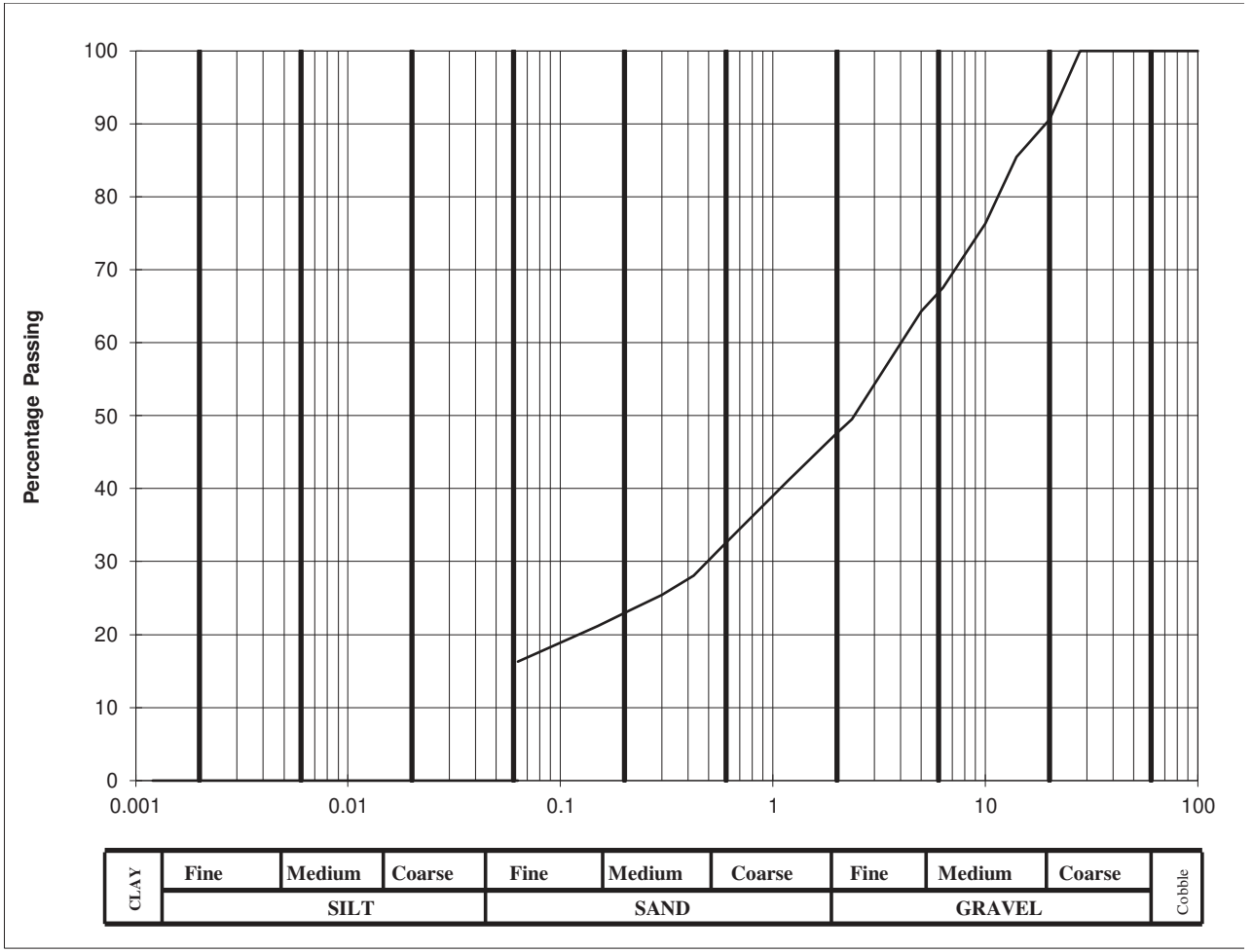
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	90.6		
14	85.4		
10	76.3		
6.3	67.5		
5.0	64.3		
2.36	49.5		
2.00	47.6		
1.18	41.1		
0.600	32.5		
0.425	28.1		
0.300	25.4		
0.212	23.3		
0.150	21.2		
0.063	16		

Cobbles, %	0
Gravel, %	52
Sand, %	32
Clay / Silt, %	16



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/608
Sample No :	DC12

Hole ID :	BH 04
Depth, m :	1.00

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

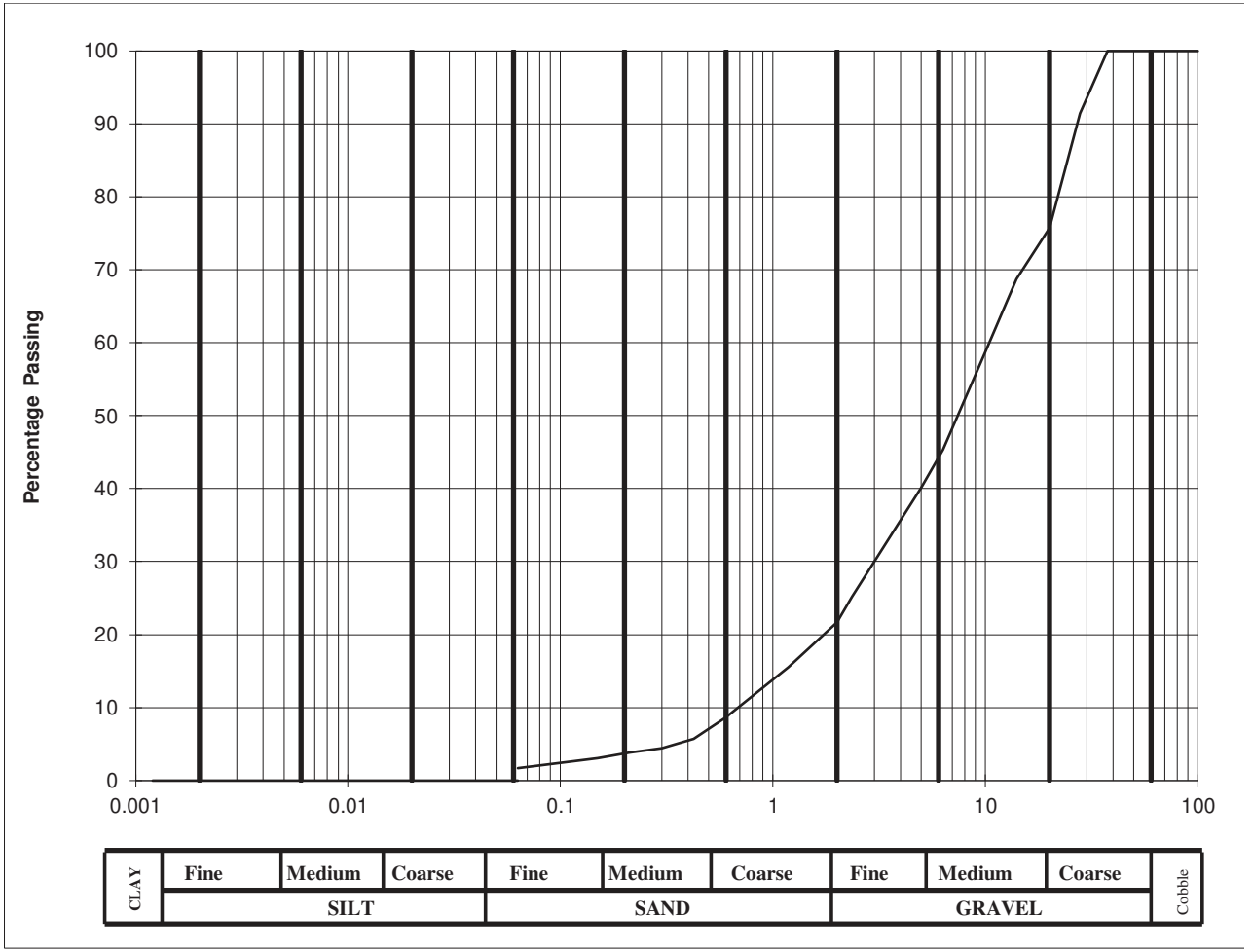
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	91.4		
20	75.7		
14	68.7		
10	58.7		
6.3	45.3		
5.0	40.1		
2.36	25.2		
2.00	21.7		
1.18	15.5		
0.600	8.6		
0.425	5.7		
0.300	4.4		
0.212	3.8		
0.150	3.1		
0.063	2		

Cobbles, %	0
Gravel, %	78
Sand, %	20
Clay / Silt, %	2



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/609
Sample No :	DC13

Hole ID :	BH 04
Depth, m :	2.00

Material description :	slightly silty sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

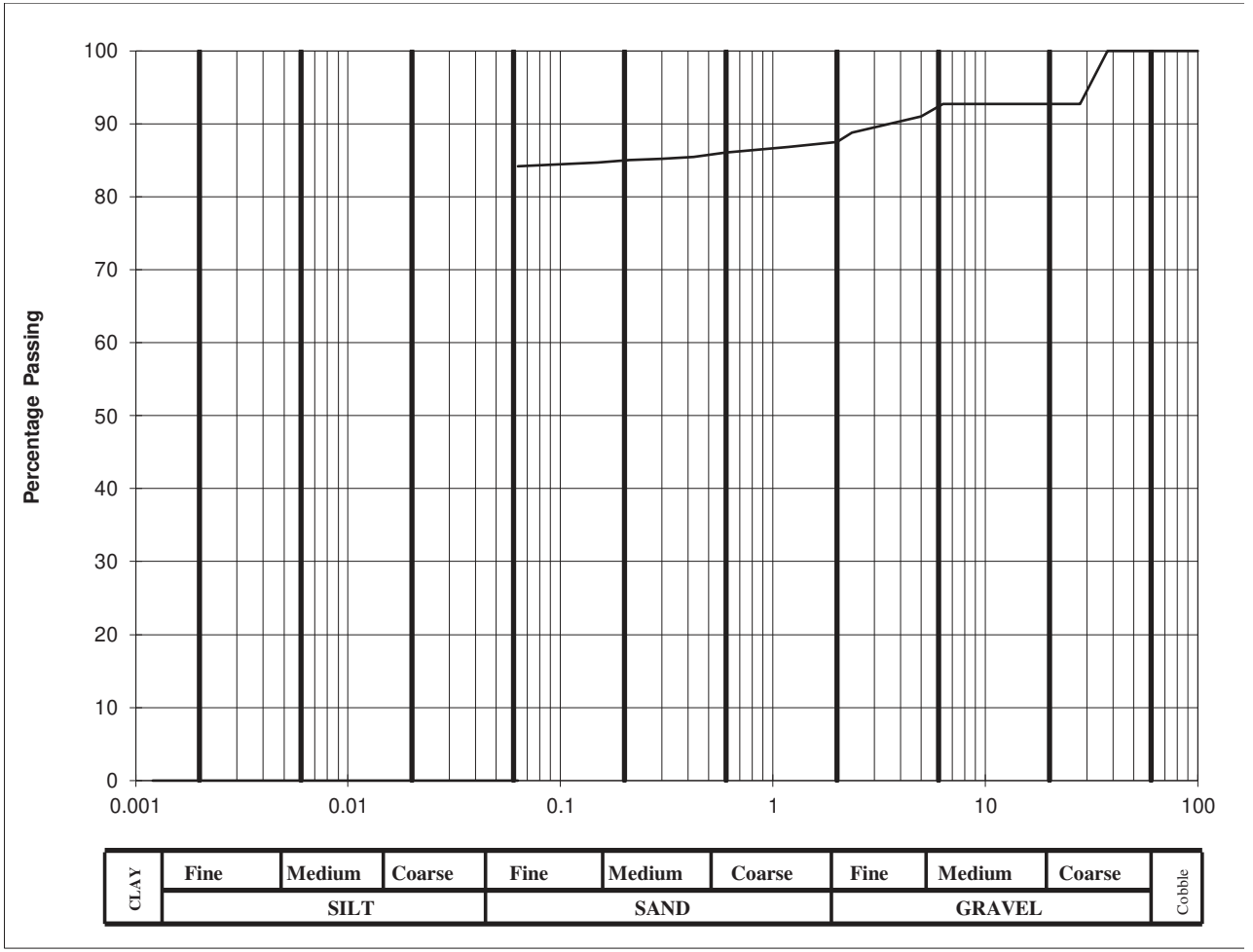
_____Paddy McGonagle
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	92.7		
20	92.7		
14	92.7		
10	92.7		
6.3	92.7		
5.0	91		
2.36	88.8		
2.00	87.5		
1.18	86.8		
0.600	86		
0.425	85.4		
0.300	85.2		
0.212	85		
0.150	84.7		
0.063	84		

Cobbles, %	0
Gravel, %	13
Sand, %	4
Clay / Silt, %	84



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/610
Sample No :	DC15

Hole ID :	BH 04
Depth, m :	4.00

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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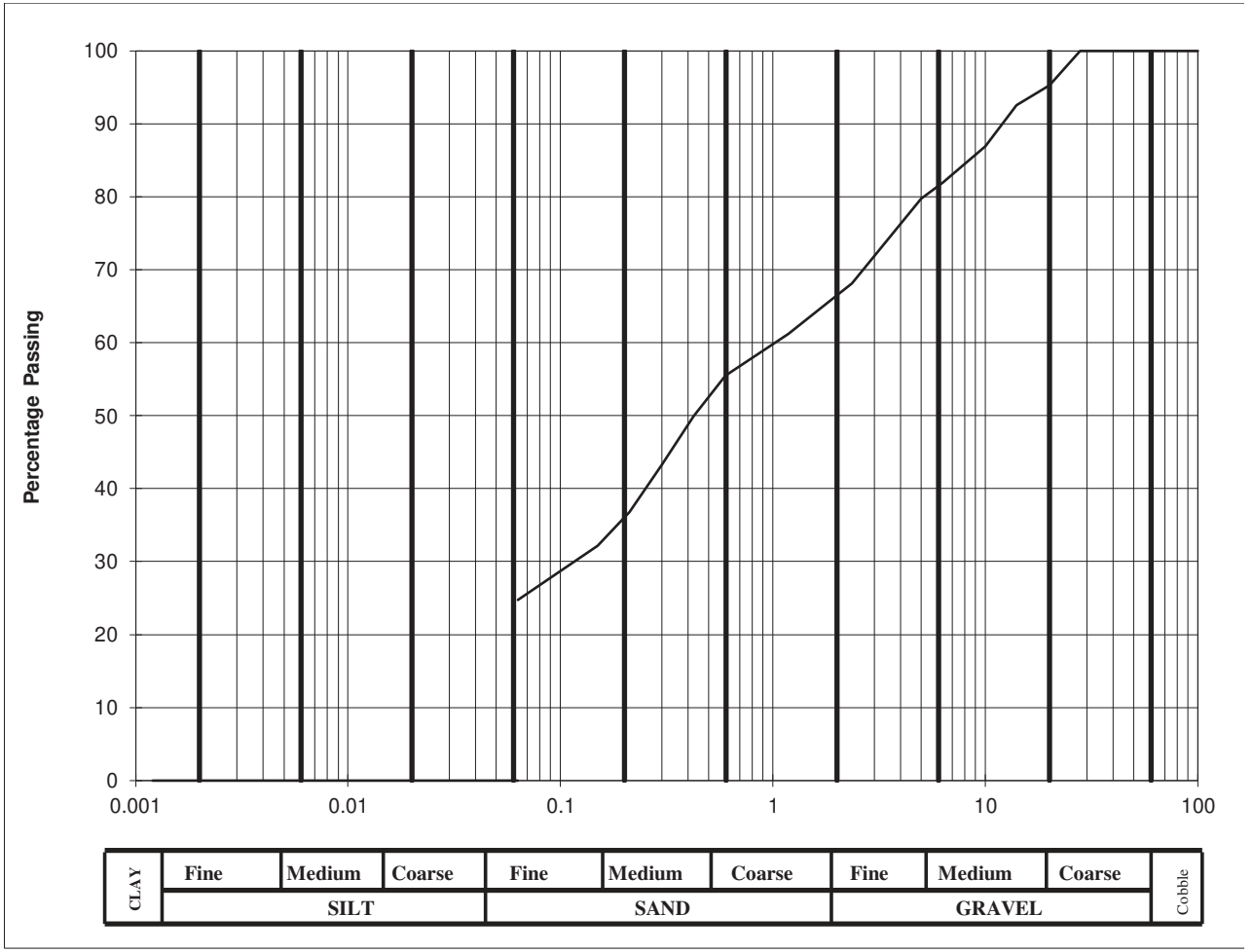
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	95.3		
14	92.5		
10	86.9		
6.3	81.9		
5.0	79.7		
2.36	68.1		
2.00	66.5		
1.18	61.2		
0.600	55.5		
0.425	49.9		
0.300	43.3		
0.212	36.8		
0.150	32.2		
0.063	25		

Cobbles, %	0
Gravel, %	34
Sand, %	42
Clay / Silt, %	25



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/611
Sample No :	DC33

Hole ID :	BH 05
Depth, m :	1.00

Material description :	sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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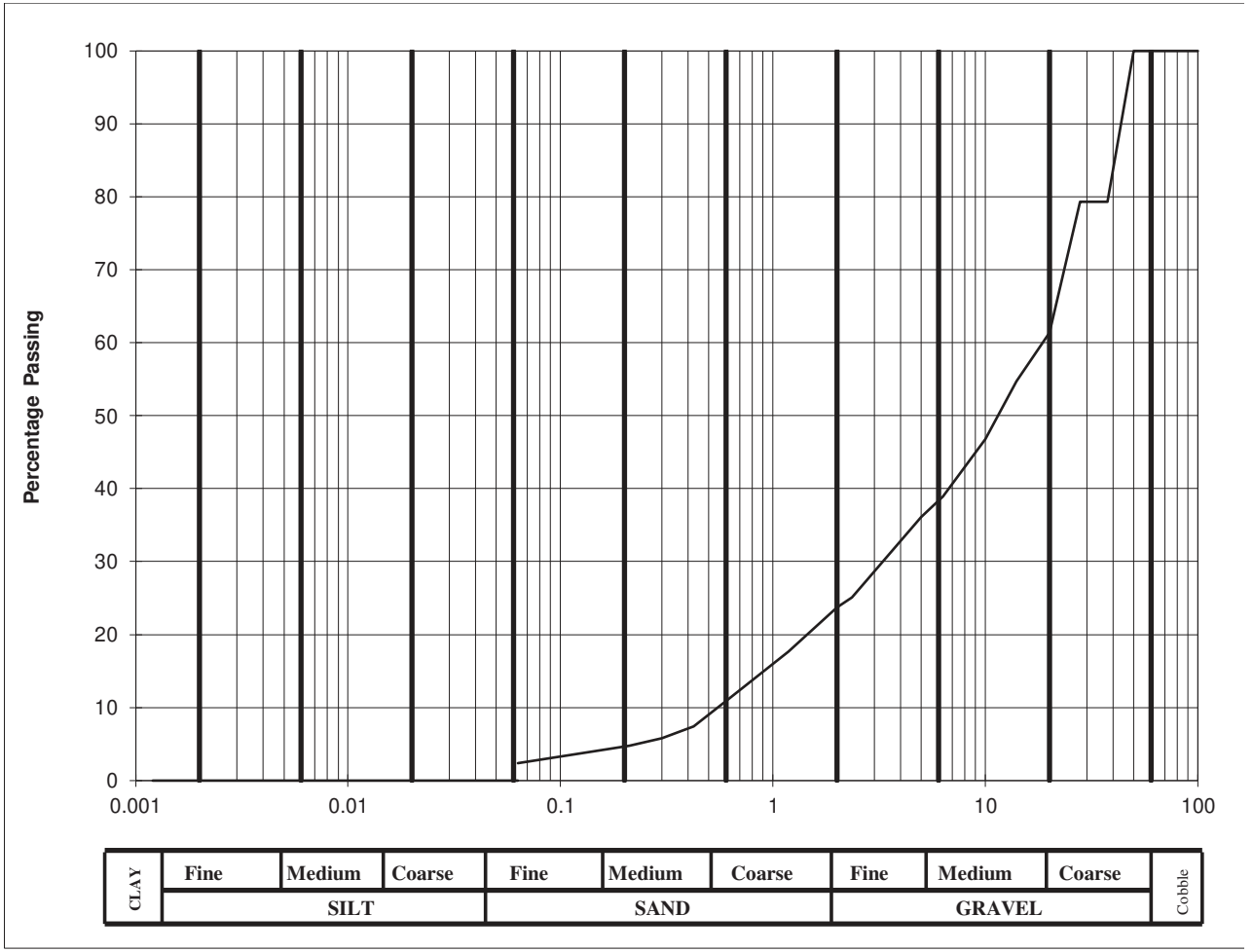
BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	79.3		
28	79.3		
20	61.4		
14	54.7		
10	46.8		
6.3	38.9		
5.0	36.1		
2.36	25.1		
2.00	23.7		
1.18	17.7		
0.600	10.8		
0.425	7.4		
0.300	5.8		
0.212	4.8		
0.150	4.1		
0.063	2		

Cobbles, %	0
Gravel, %	76
Sand, %	22
Clay / Silt, %	2



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/612
Sample No :	DC34

Hole ID :	BH 05
Depth, m :	2.00

Material description :	slightly silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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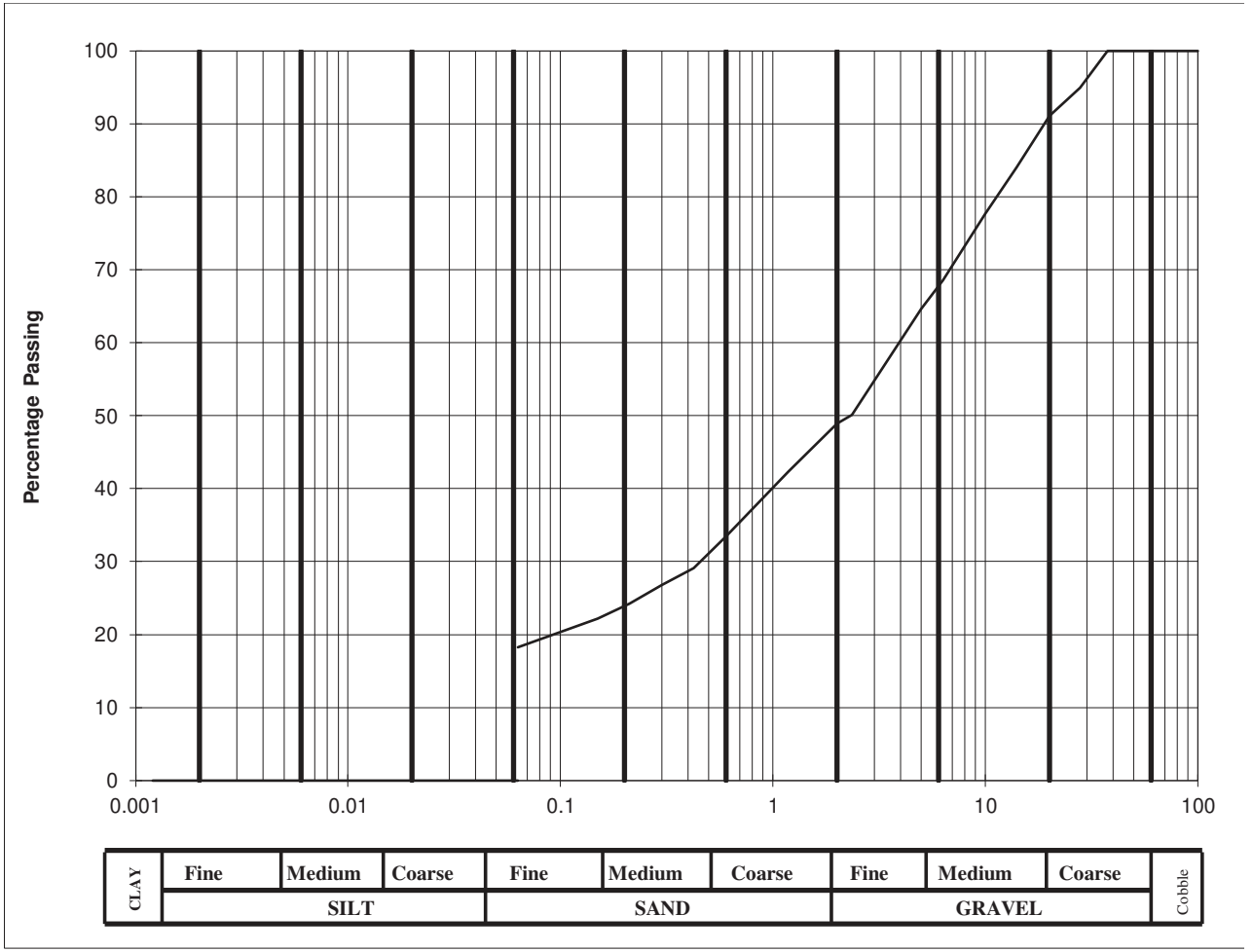
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	94.9		
20	91.1		
14	84		
10	77.7		
6.3	68.5		
5.0	64.6		
2.36	50.1		
2.00	48.9		
1.18	42.3		
0.600	33.4		
0.425	29.1		
0.300	26.8		
0.212	24.2		
0.150	22.2		
0.063	18		

Cobbles, %	0
Gravel, %	51
Sand, %	31
Clay / Silt, %	18



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/613
Sample No :	DC44

Hole ID :	RC 01
Depth, m :	1.00

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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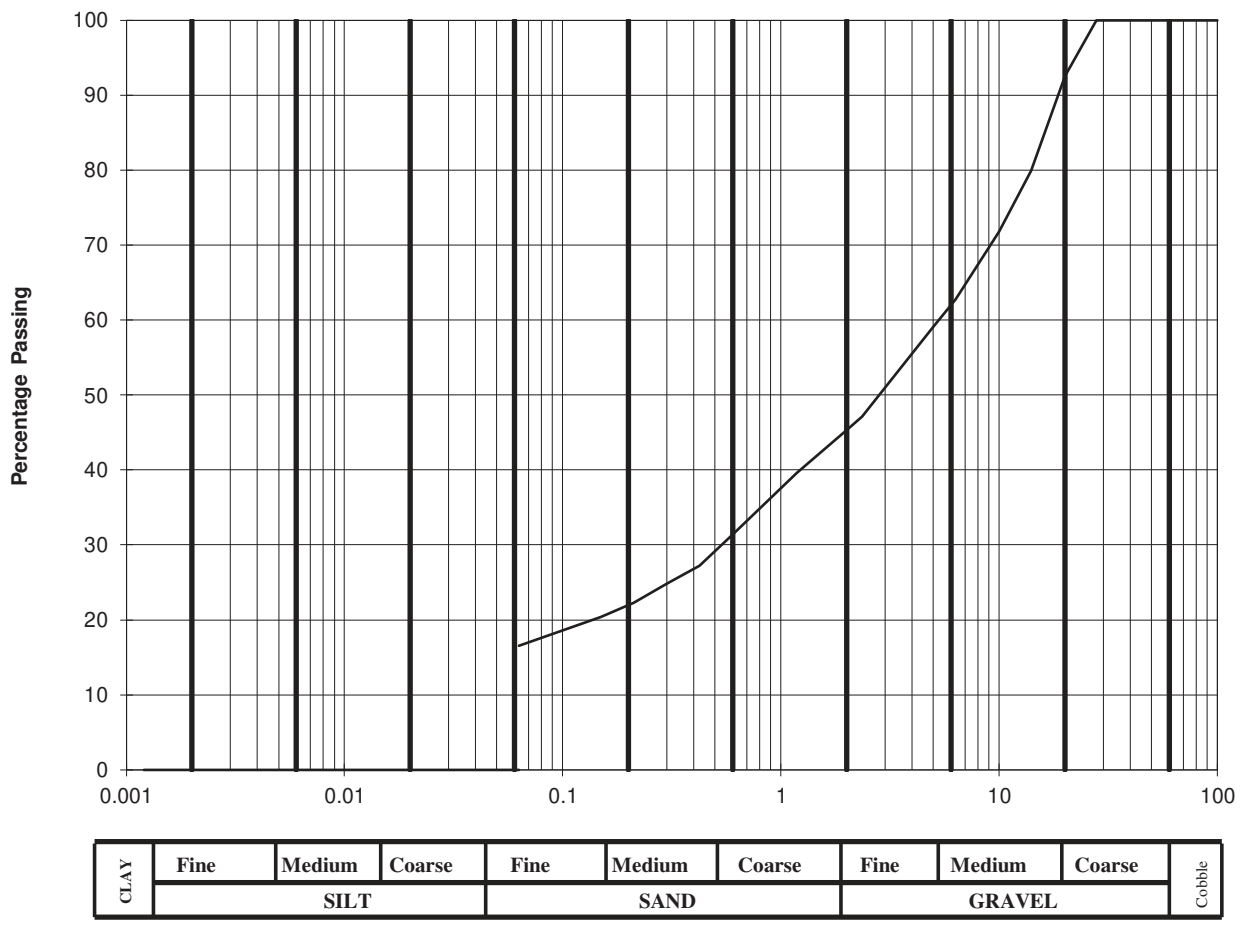
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	92.5		
14	79.9		
10	71.8		
6.3	62.7		
5.0	59.1		
2.36	47.1		
2.00	45.3		
1.18	39.6		
0.600	31.3		
0.425	27.2		
0.300	24.8		
0.212	22.3		
0.150	20.4		
0.063	17		

Cobbles, %	0
Gravel, %	55
Sand, %	28
Clay / Silt, %	17



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/614
Sample No :	DC45

Hole ID :	RC 01
Depth, m :	2.00

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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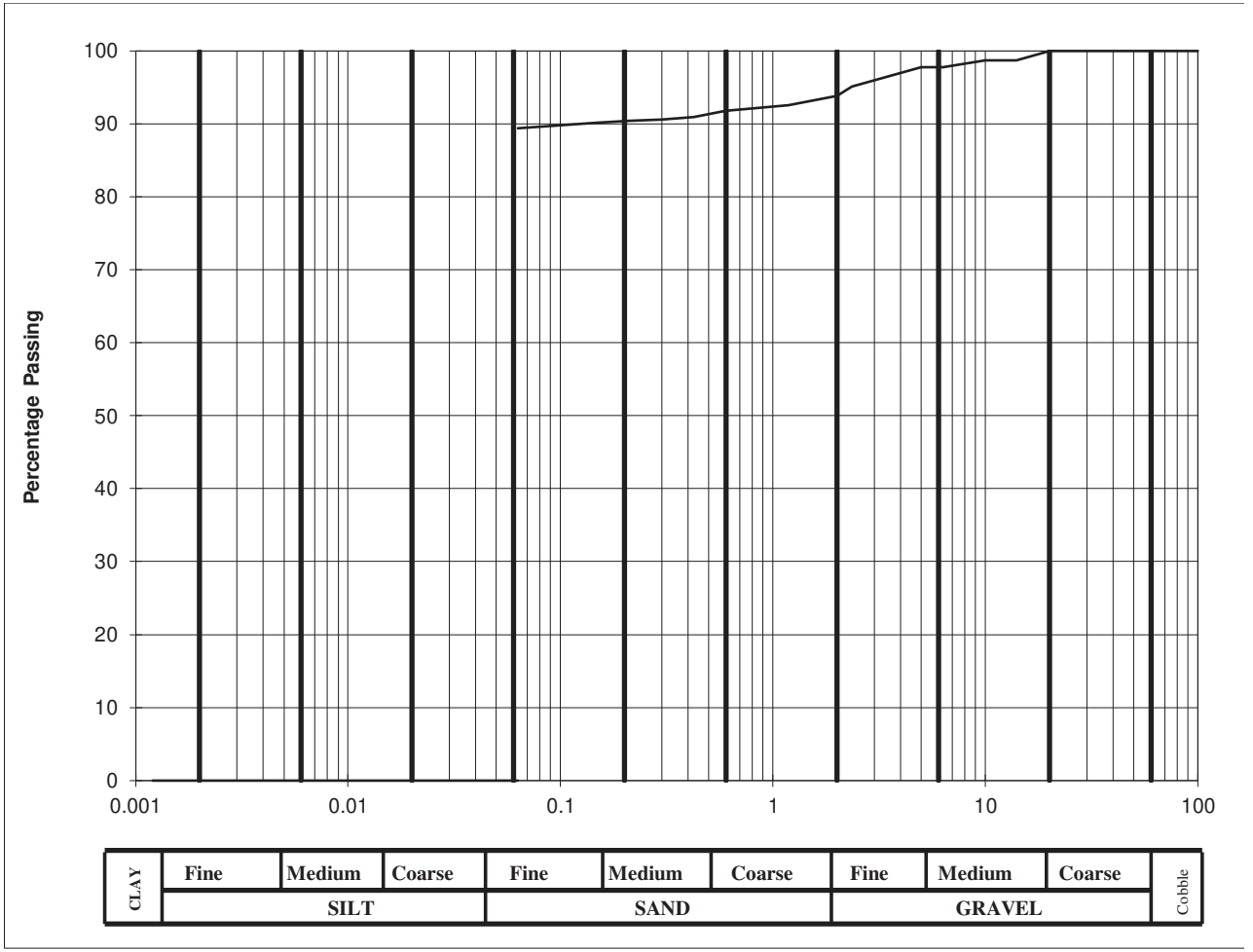
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	100		
14	98.7		
10	98.7		
6.3	97.7		
5.0	97.7		
2.36	95.1		
2.00	93.8		
1.18	92.5		
0.600	91.8		
0.425	90.9		
0.300	90.6		
0.212	90.4		
0.150	90.1		
0.063	89		

Cobbles, %	0
Gravel, %	6
Sand, %	5
Clay / Silt, %	89



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/615
Sample No :	DC51

Hole ID :	RC 01
Depth, m :	8.00

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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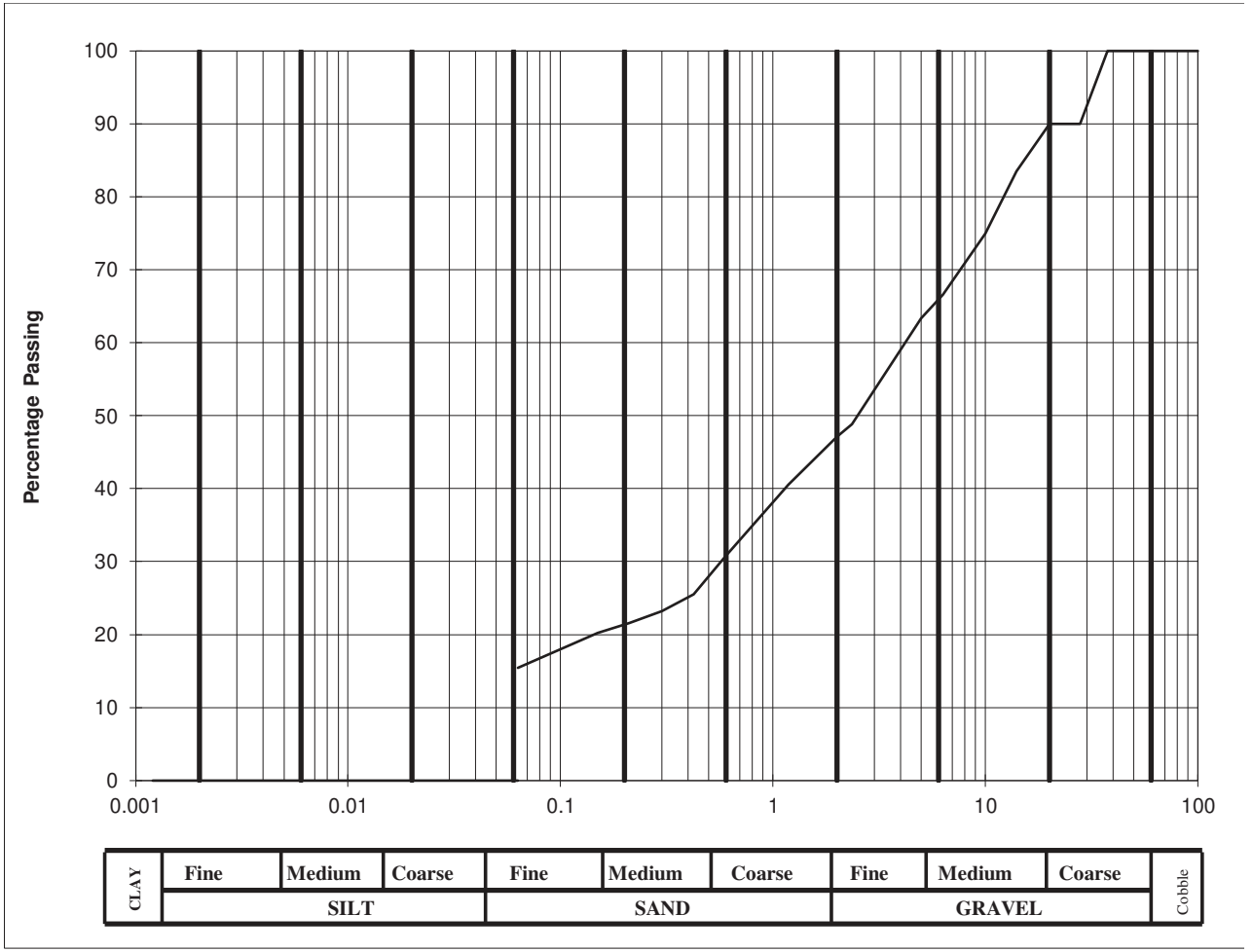
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	90		
20	90		
14	83.5		
10	74.9		
6.3	66.6		
5.0	63.3		
2.36	48.8		
2.00	47.1		
1.18	40.5		
0.600	30.7		
0.425	25.5		
0.300	23.2		
0.212	21.6		
0.150	20.2		
0.063	16		

Cobbles, %	0
Gravel, %	53
Sand, %	31
Clay / Silt, %	16



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/616
Sample No :	DC55

Hole ID :	RC 02
Depth, m :	1.00

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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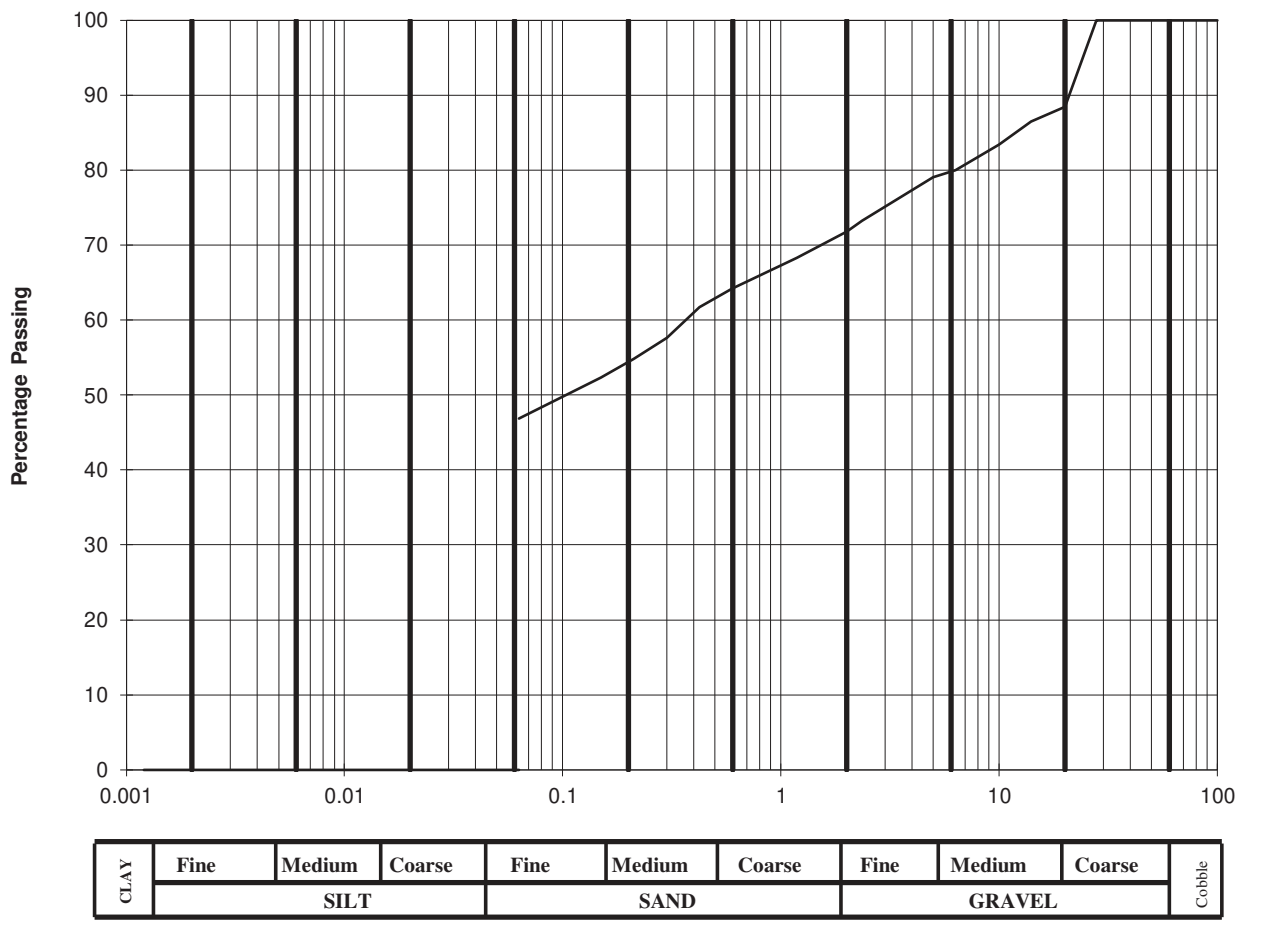
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	88.4		
14	86.5		
10	83.4		
6.3	80		
5.0	79		
2.36	73.2		
2.00	71.8		
1.18	68.3		
0.600	64.2		
0.425	61.7		
0.300	57.6		
0.212	54.8		
0.150	52.3		
0.063	47		

Cobbles, %	0
Gravel, %	28
Sand, %	25
Clay / Silt, %	47



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/617
Sample No :	DC59

Hole ID :	RC 02
Depth, m :	5.00

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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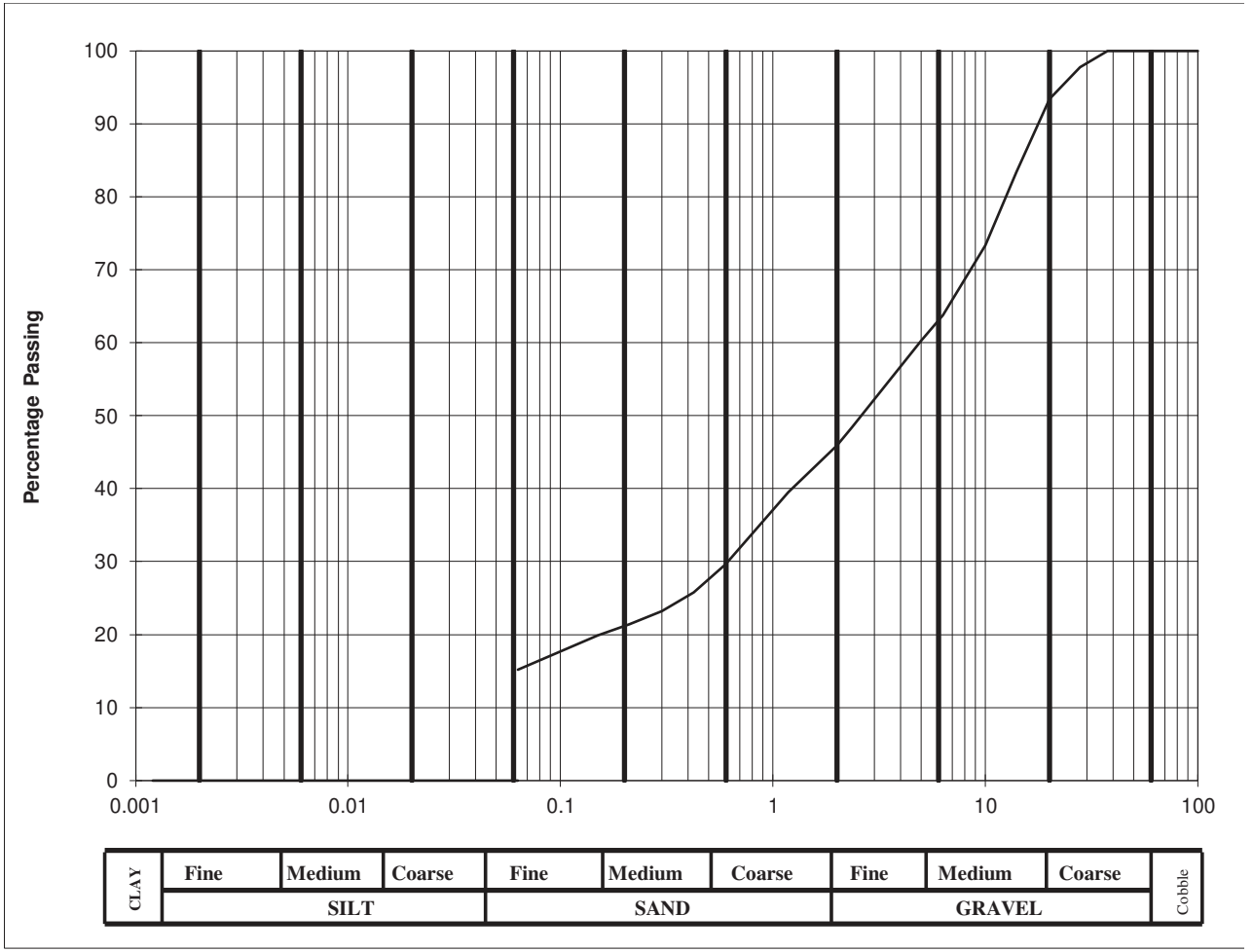
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	97.7		
20	93.4		
14	83.4		
10	73.3		
6.3	63.8		
5.0	60.3		
2.36	48.4		
2.00	45.9		
1.18	39.5		
0.600	29.6		
0.425	25.8		
0.300	23.2		
0.212	21.4		
0.150	19.9		
0.063	15		

Cobbles, %	0
Gravel, %	54
Sand, %	31
Clay / Silt, %	15



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/618
Sample No :	DC65

Hole ID :	RC 03
Depth, m :	1.00

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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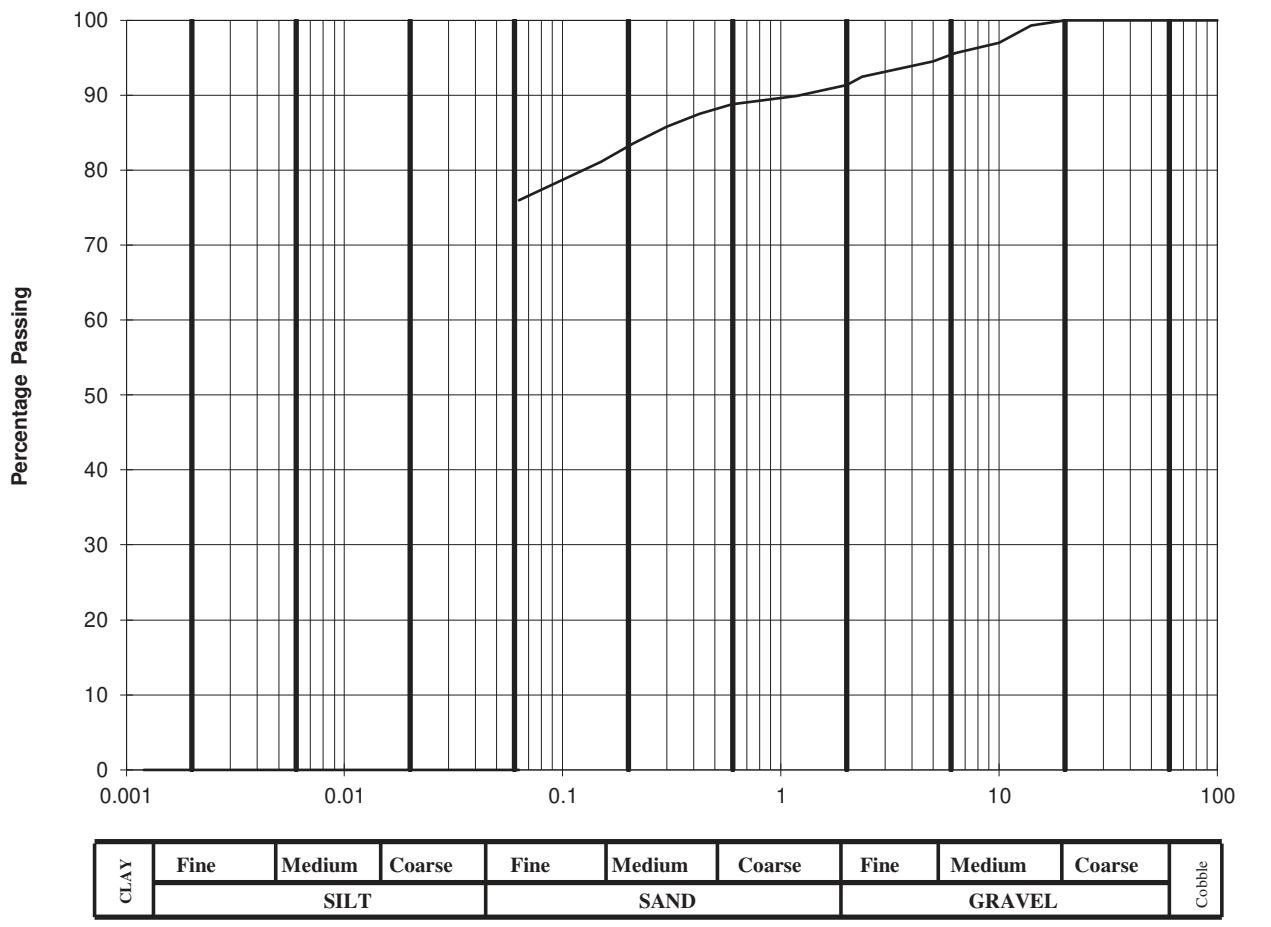
BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	100		
20	100		
14	99.3		
10	97		
6.3	95.6		
5.0	94.5		
2.36	92.4		
2.00	91.3		
1.18	89.9		
0.600	88.8		
0.425	87.5		
0.300	85.8		
0.212	83.6		
0.150	81.1		
0.063	76		

Cobbles, %	0
Gravel, %	9
Sand, %	15
Clay / Silt, %	76



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/619
Sample No :	DC66

Hole ID :	RC 03
Depth, m :	2.00

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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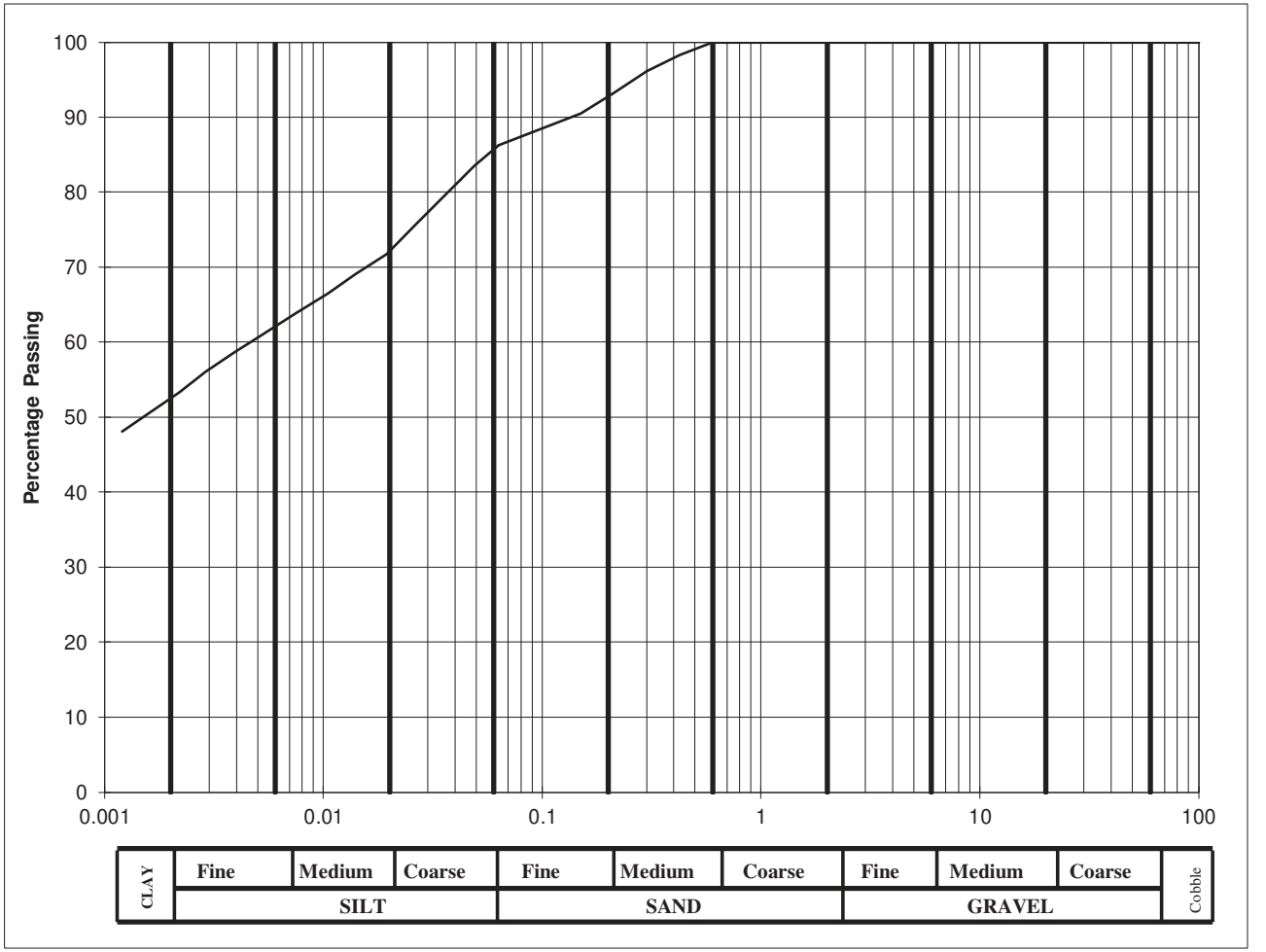
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	86
90	100	**0.0200**	72
75	100	**0.0060**	63
63	100	**0.0020**	53
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5.0	100		
2.36	100		
2.00	100		
1.18	100		
0.600	100		
0.425	98.3		
0.300	96.1		
0.212	93.2		
0.150	90.5		
0.063	86		



Cobbles, %	0
Gravel, %	0
Sand, %	14
Silt, %	33
Clay, %	53

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/546
Sample No :	MK74

Hole ID :	TP 01
Depth, m :	1.50

Material description :	slightly sandy silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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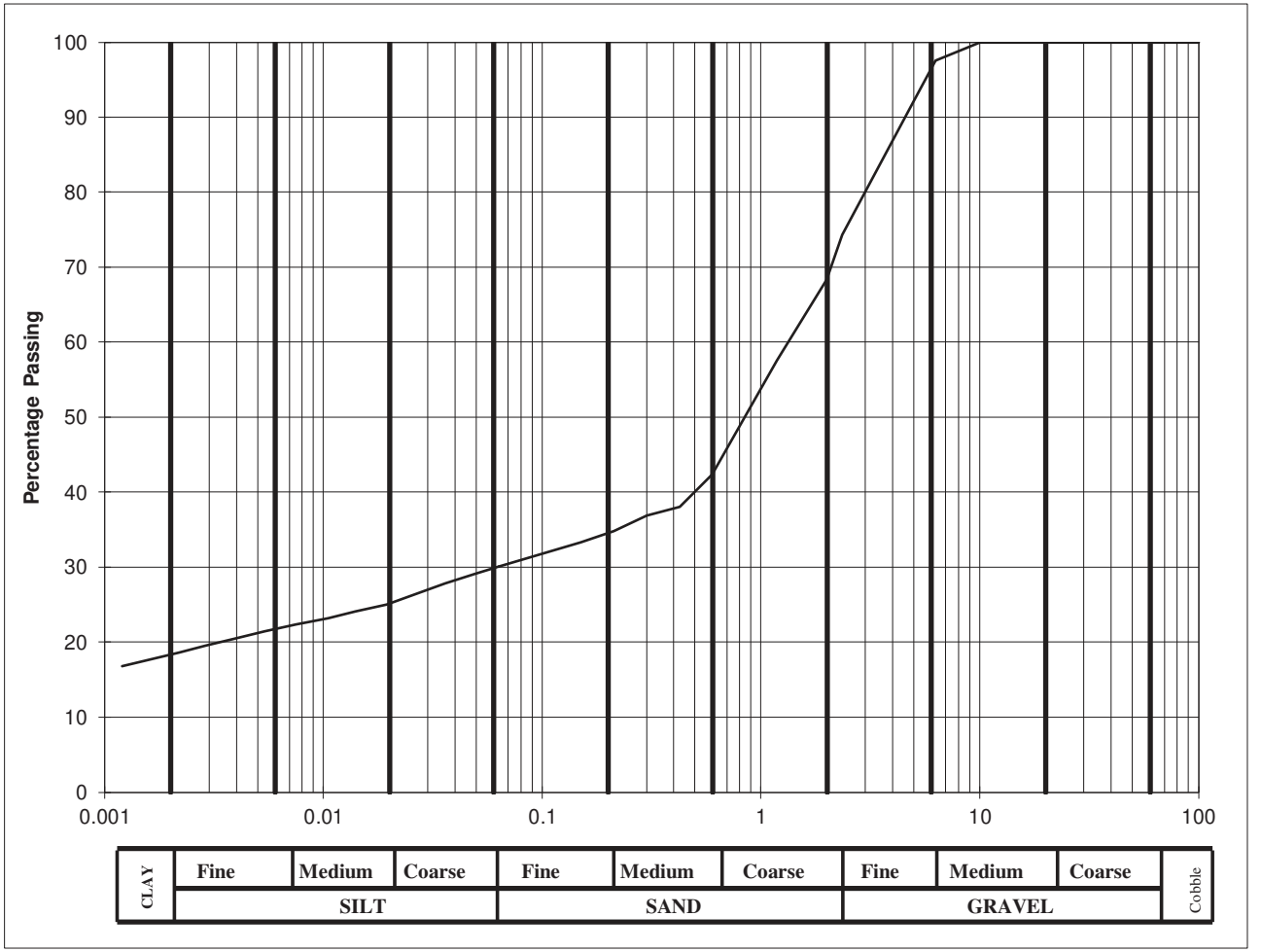
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	30
90	100	**0.0200**	25
75	100	**0.0060**	22
63	100	**0.0020**	18
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	97.5		
5.0	92.1		
2.36	74.3		
2.00	68.3		
1.18	57.5		
0.600	42.3		
0.425	38		
0.300	36.9		
0.212	34.8		
0.150	33.3		
0.063	30		



Cobbles, %	0
Gravel, %	32
Sand, %	38
Silt, %	12
Clay, %	18

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/550
Sample No :	MK119

Hole ID :	TP 08
Depth, m :	1.00

Material description :	sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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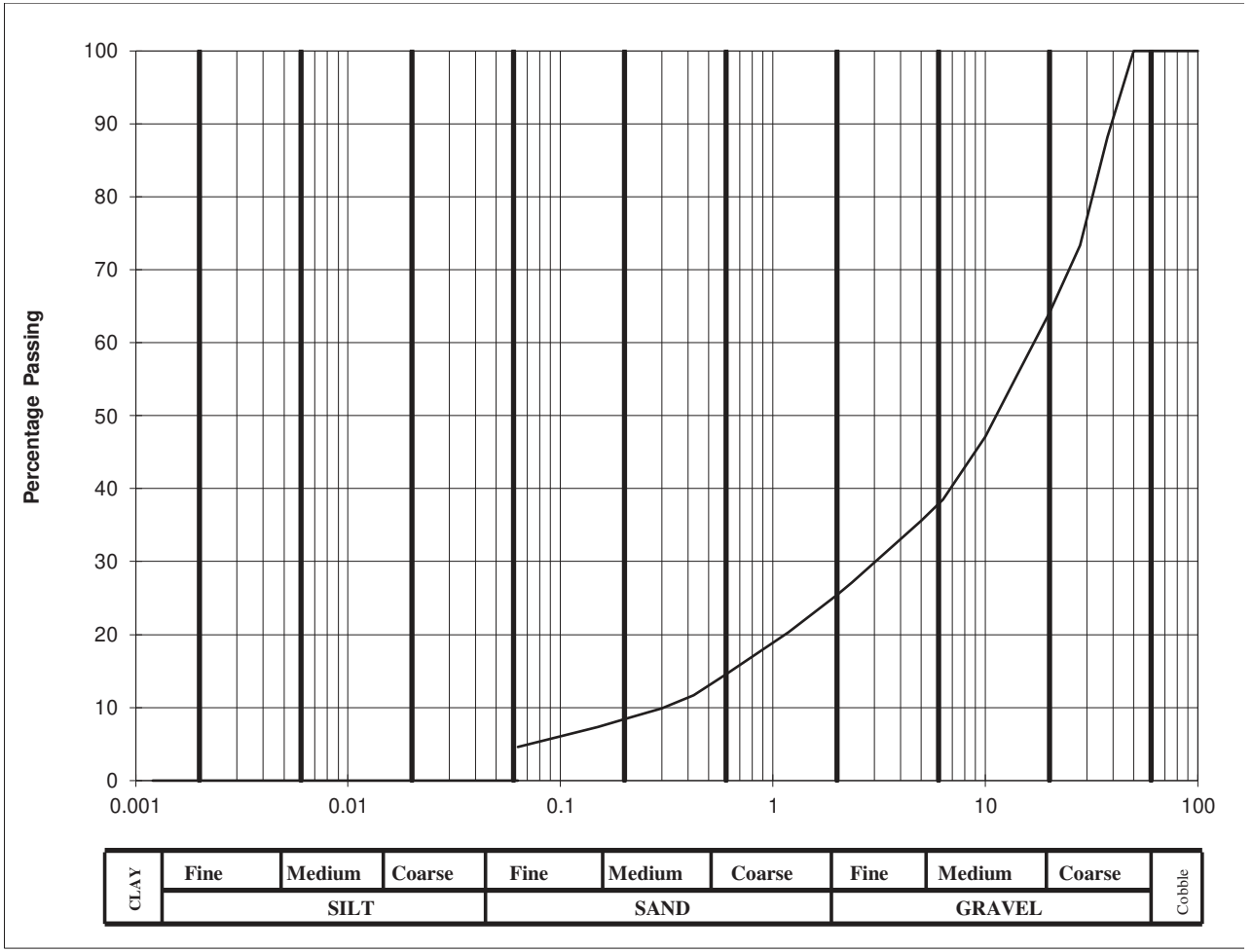
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	88.2		
28	73.3		
20	64.1		
14	55.4		
10	47.1		
6.3	38.5		
5.0	35.6		
2.36	27.1		
2.00	25.4		
1.18	20.3		
0.600	14.5		
0.425	11.7		
0.300	9.9		
0.212	8.6		
0.150	7.3		
0.063	5		

Cobbles, %	0
Gravel, %	75
Sand, %	20
Clay / Silt, %	5



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/553
Sample No :	MK277

Hole ID :	TP 28
Depth, m :	1.00

Material description :	silty sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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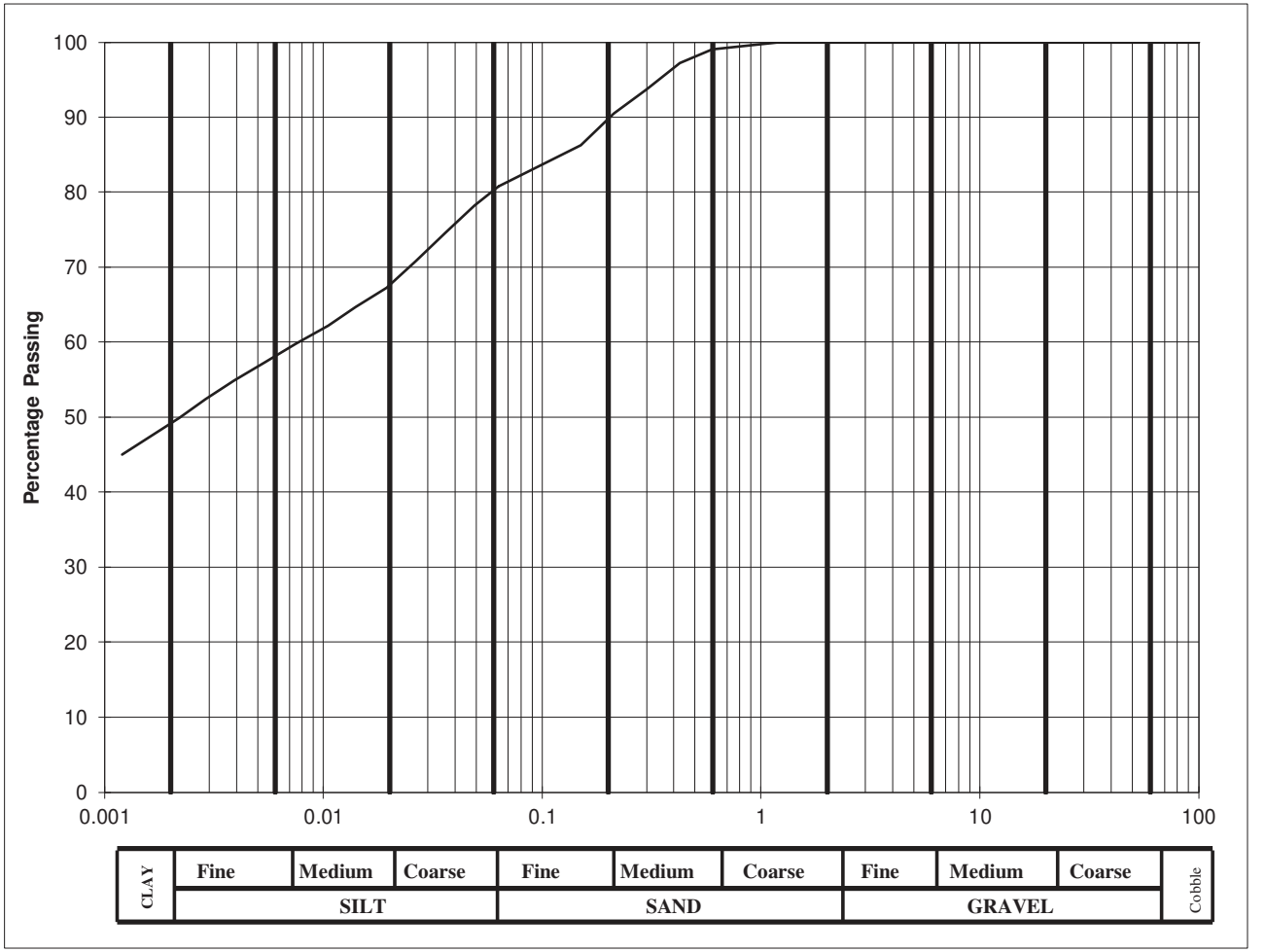
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	82
90	100	**0.0200**	68
75	100	**0.0060**	59
63	100	**0.0020**	50
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5.0	100		
2.36	100		
2.00	100		
1.18	100		
0.600	99		
0.425	97.2		
0.300	93.7		
0.212	90.5		
0.150	86.2		
0.063	81		



Cobbles, %	0
Gravel, %	0
Sand, %	19
Silt, %	31
Clay, %	50

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/554
Sample No :	MK292

Hole ID :	TP 29
Depth, m :	2.00

Material description :	slightly sandy silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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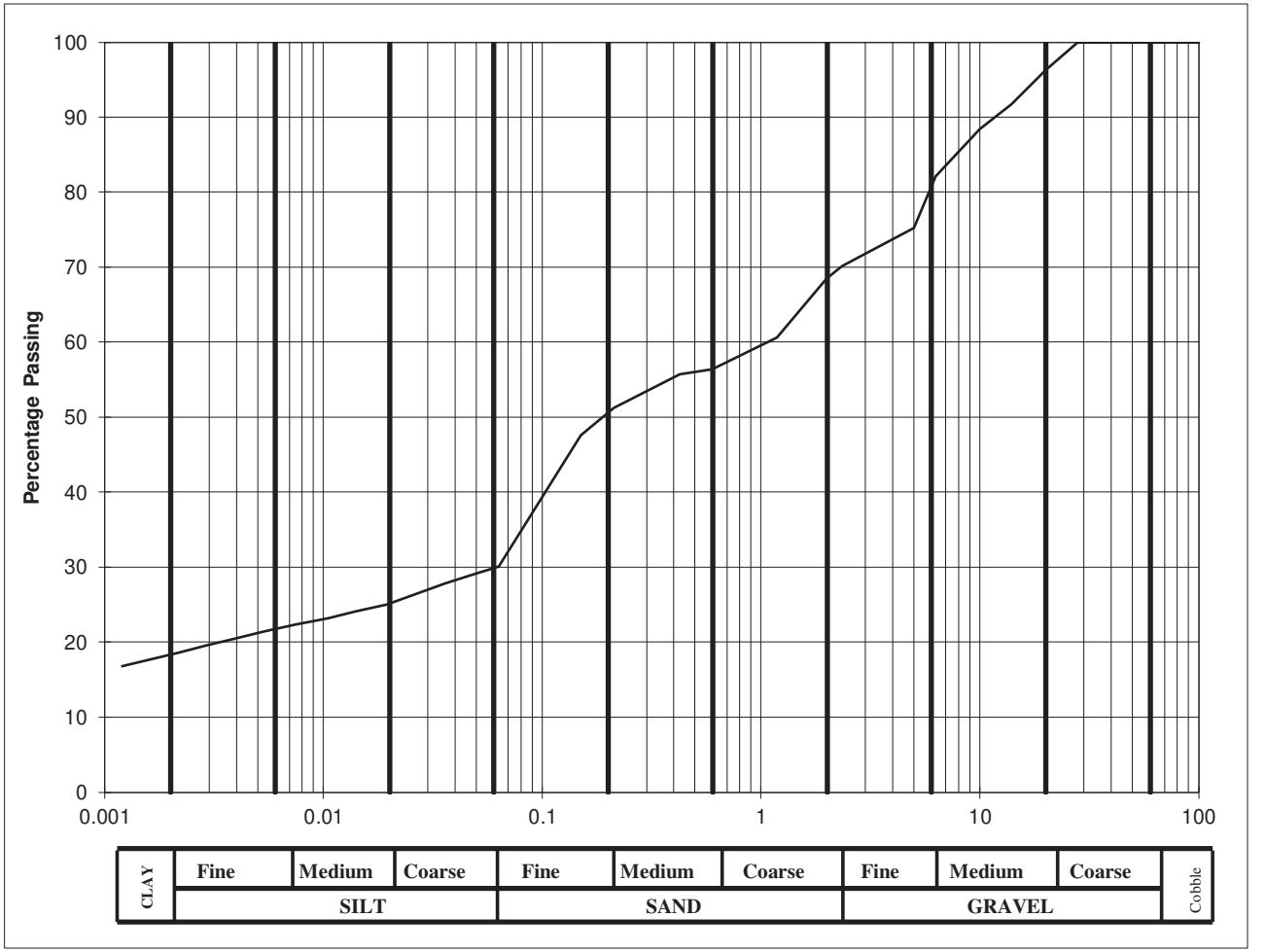
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	30
90	100	**0.0200**	25
75	100	**0.0060**	22
63	100	**0.0020**	18
50	100		
37.5	100		
28	100		
20	96.3		
14	91.7		
10	88.4		
6.3	82.1		
5.0	75.2		
2.36	70.1		
2.00	68.5		
1.18	60.6		
0.600	56.4		
0.425	55.7		
0.300	53.5		
0.212	51.2		
0.150	47.6		
0.063	30		



Cobbles, %	0
Gravel, %	32
Sand, %	39
Silt, %	12
Clay, %	18

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/557
Sample No :	MK83

Hole ID :	TP 38
Depth, m :	1.00

Material description :	sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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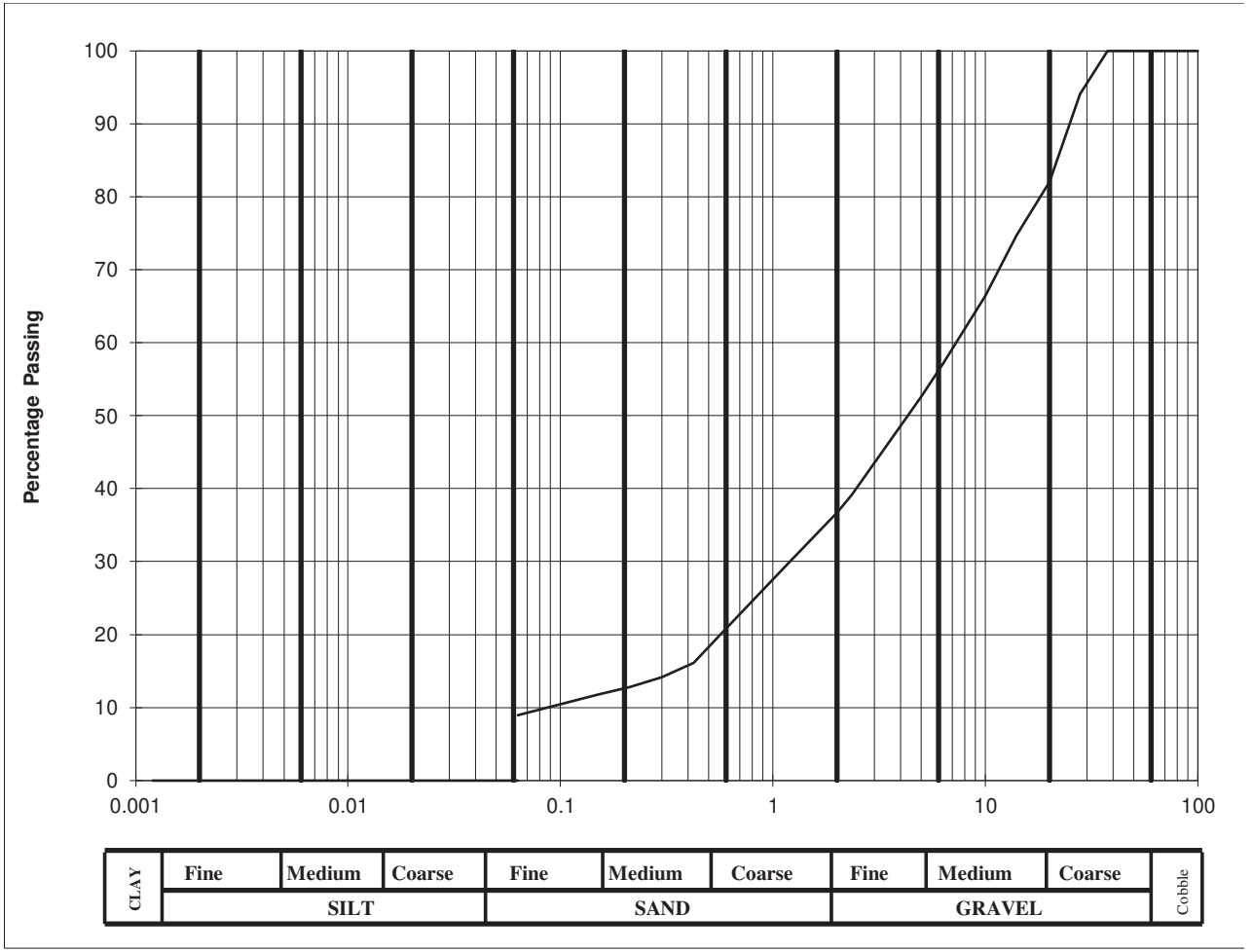
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	94.1		
20	82		
14	74.7		
10	66.4		
6.3	57.1		
5.0	52.6		
2.36	39.2		
2.00	36.7		
1.18	29.8		
0.600	20.7		
0.425	16.1		
0.300	14.2		
0.212	12.8		
0.150	11.8		
0.063	9		

Cobbles, %	0
Gravel, %	63
Sand, %	28
Clay / Silt, %	9



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/559
Sample No :	MK320

Hole ID :	TP 47
Depth, m :	0.50

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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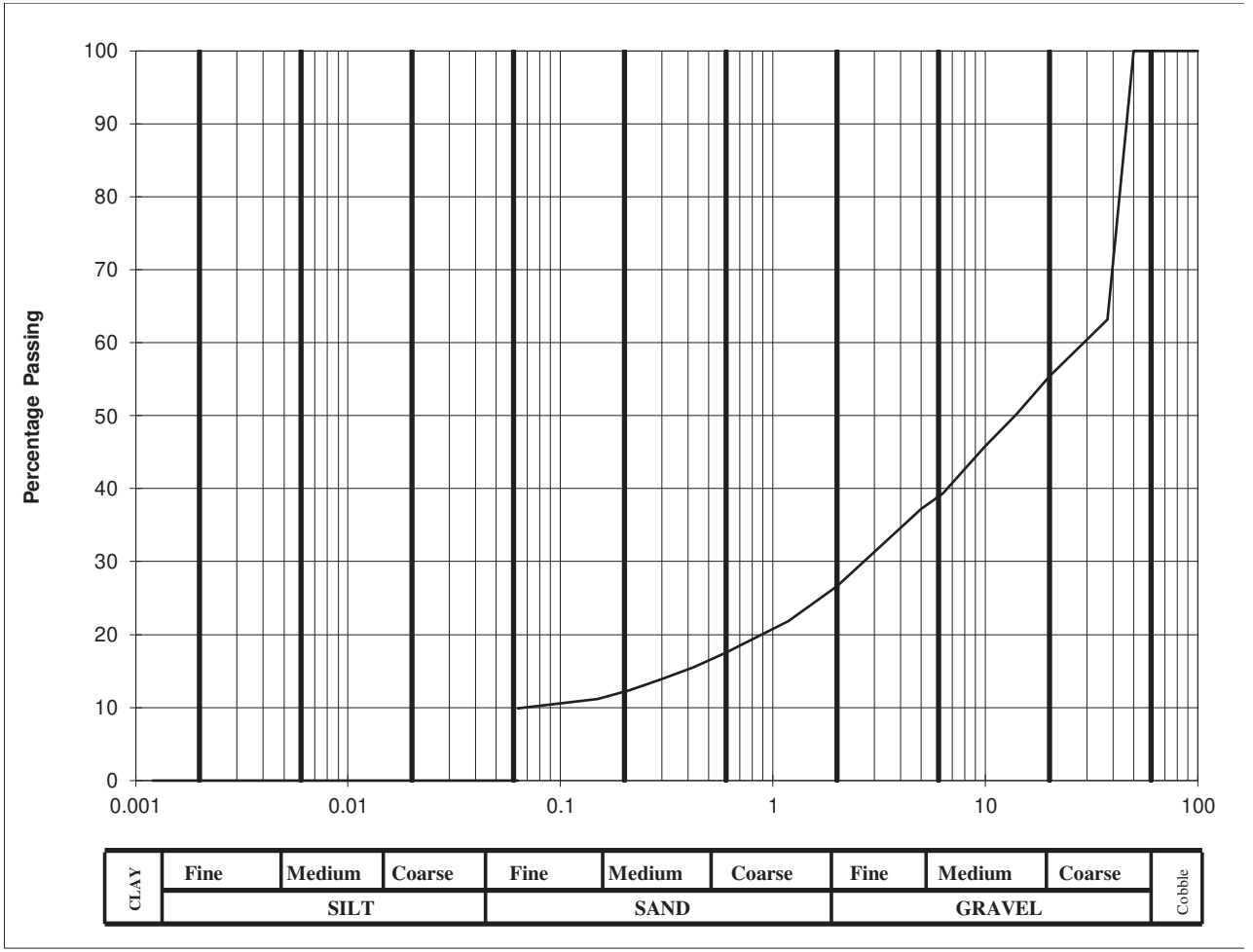
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	63.2		
28	59.5		
20	55.4		
14	50.2		
10	45.8		
6.3	39.3		
5.0	37.2		
2.36	28.5		
2.00	26.6		
1.18	21.8		
0.600	17.5		
0.425	15.5		
0.300	13.9		
0.212	12.4		
0.150	11.2		
0.063	10		

Cobbles, %	0
Gravel, %	73
Sand, %	17
Clay / Silt, %	10



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/560
Sample No :	MK336

Hole ID :	TP 51
Depth, m :	0.50

Material description :	silty sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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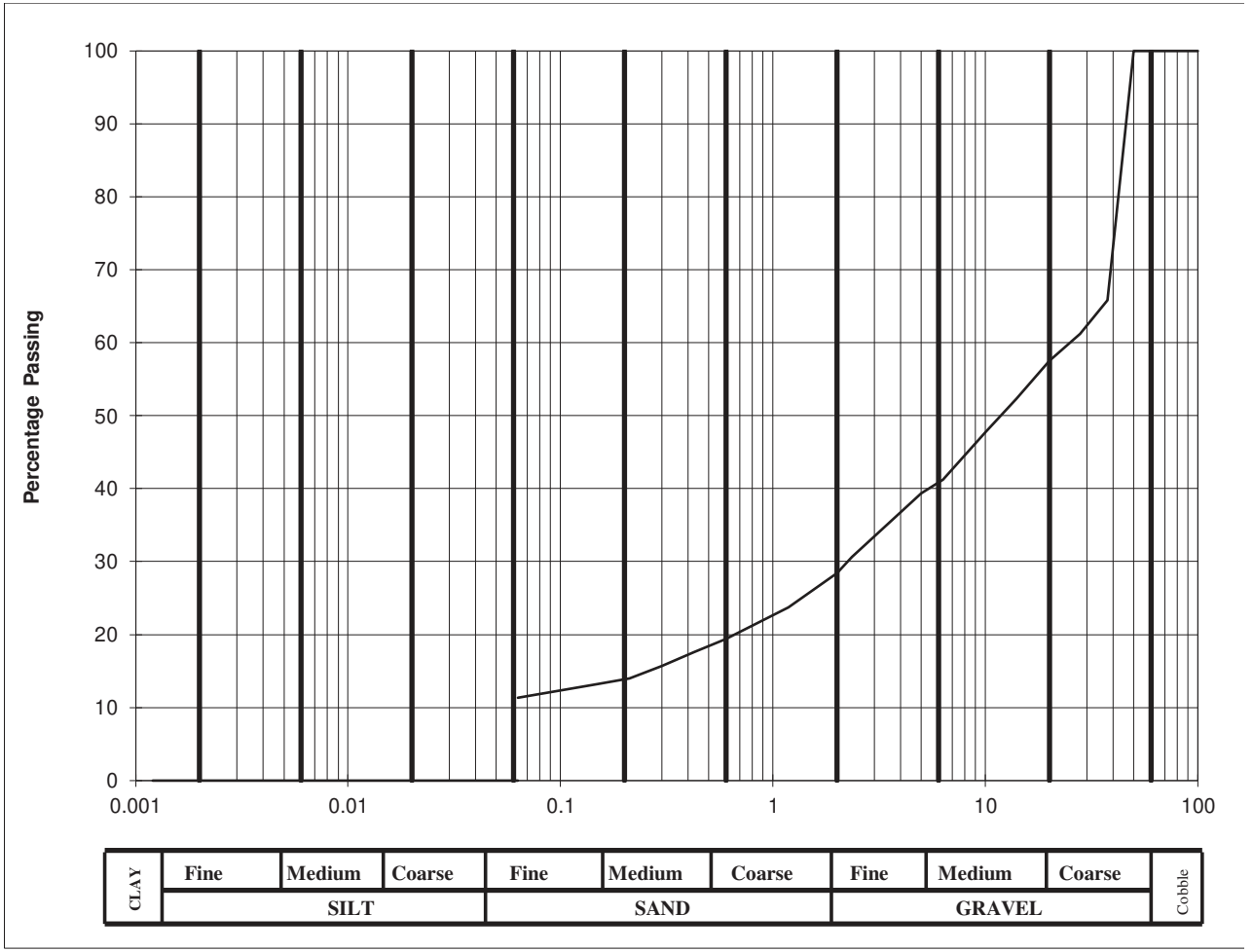
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	65.8		
28	61.2		
20	57.5		
14	52.3		
10	47.7		
6.3	41.2		
5.0	39.3		
2.36	30.6		
2.00	28.4		
1.18	23.7		
0.600	19.4		
0.425	17.6		
0.300	15.7		
0.212	14		
0.150	13.2		
0.063	11		

Cobbles, %	0
Gravel, %	72
Sand, %	17
Clay / Silt, %	11



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/562
Sample No :	MK438

Hole ID :	TP 55
Depth, m :	0.50

Material description :	silty sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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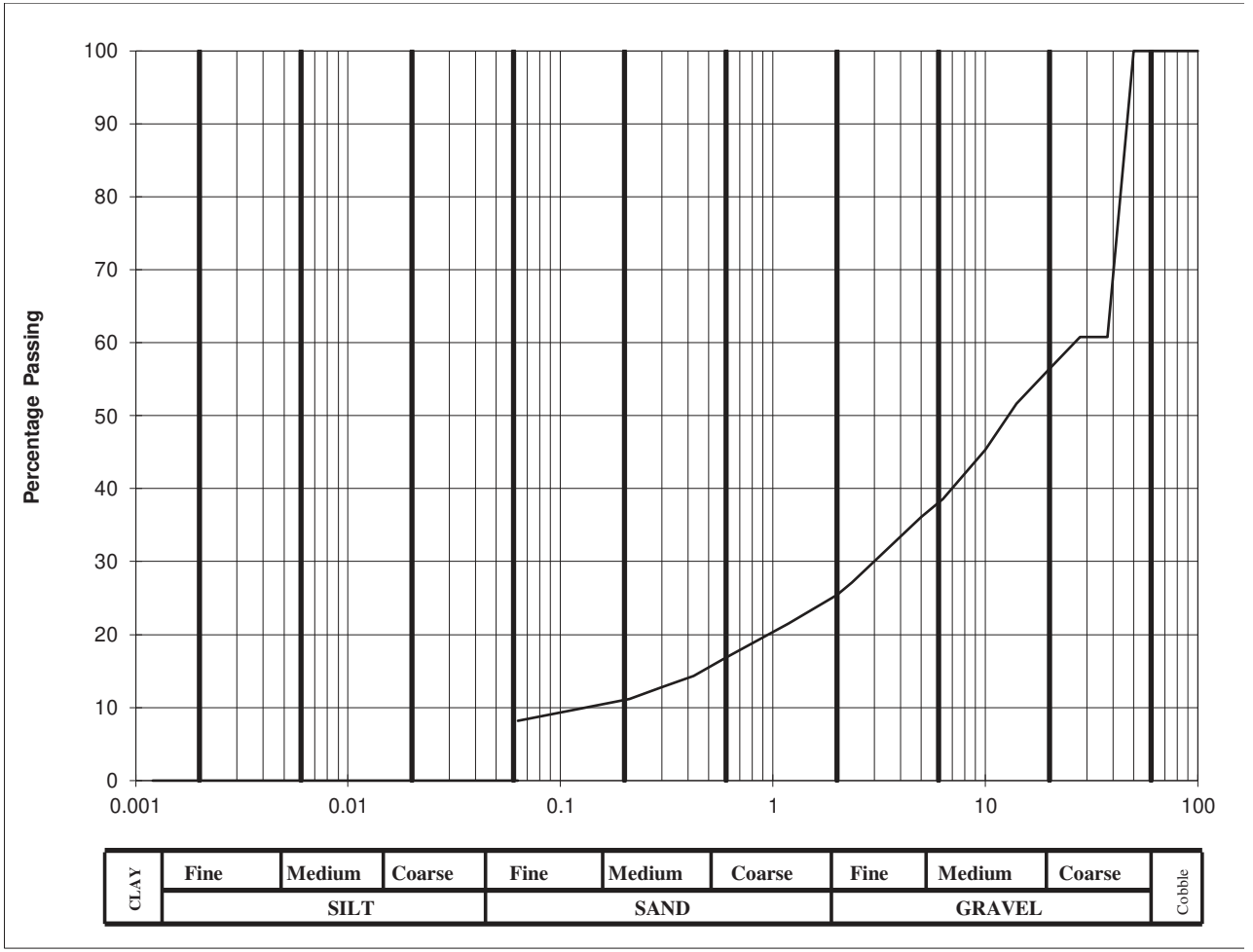
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	60.8		
28	60.8		
20	56.4		
14	51.6		
10	45.3		
6.3	38.6		
5.0	36.1		
2.36	27.1		
2.00	25.4		
1.18	21.5		
0.600	16.8		
0.425	14.3		
0.300	12.8		
0.212	11.2		
0.150	10.3		
0.063	8		

Cobbles, %	0
Gravel, %	75
Sand, %	17
Clay / Silt, %	8



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/561
Sample No :	MK424

Hole ID :	TP 57
Depth, m :	0.50

Material description :	silty sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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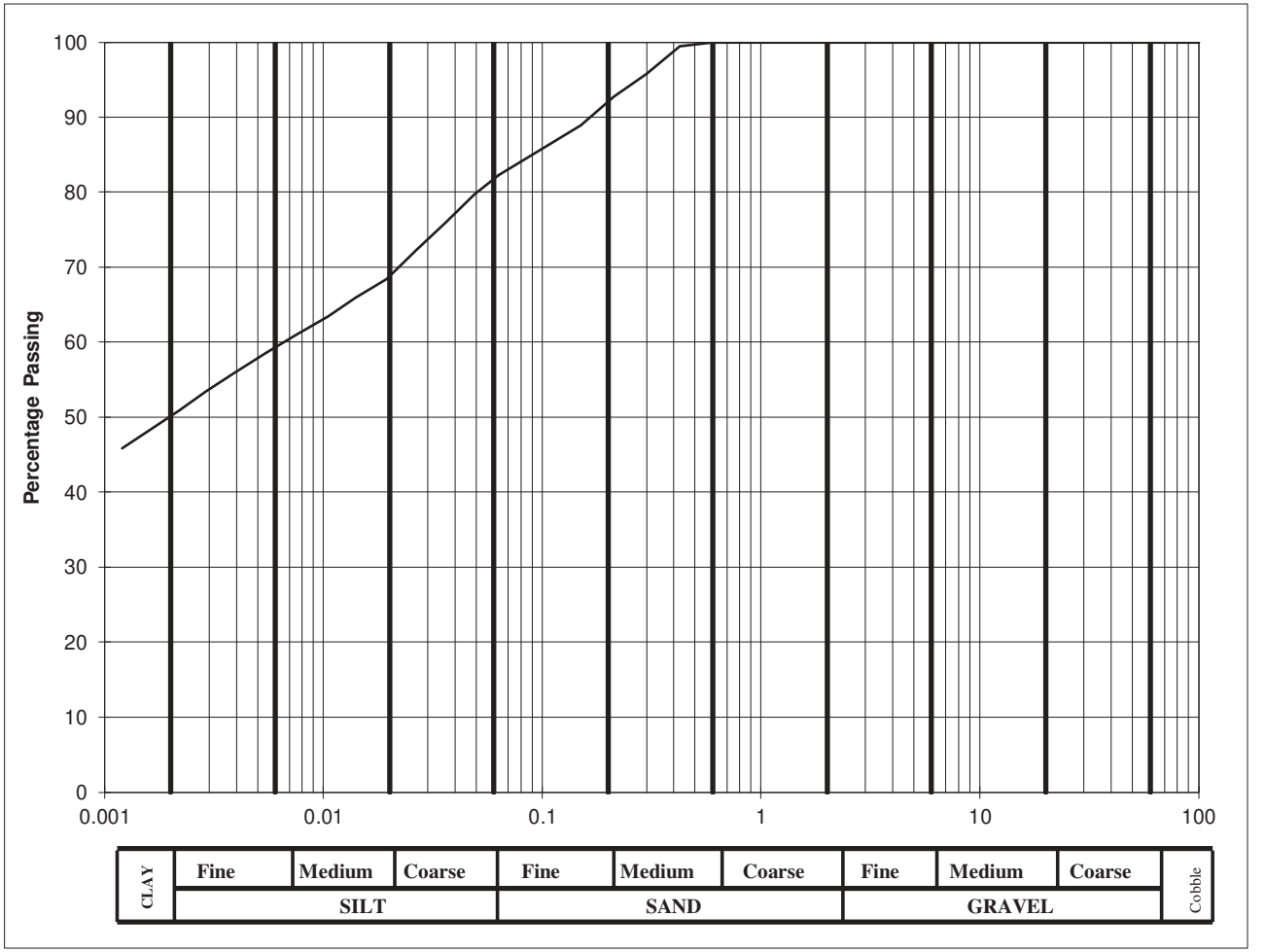
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	82
90	100	**0.0200**	68
75	100	**0.0060**	59
63	100	**0.0020**	50
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5.0	100		
2.36	100		
2.00	100		
1.18	100		
0.600	100		
0.425	99.4		
0.300	95.8		
0.212	92.7		
0.150	88.9		
0.063	82		



Cobbles, %	0
Gravel, %	0
Sand, %	18
Silt, %	32
Clay, %	50

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/564
Sample No :	MK437

Hole ID :	TP 63
Depth, m :	1.50

Material description :	slightly sandy silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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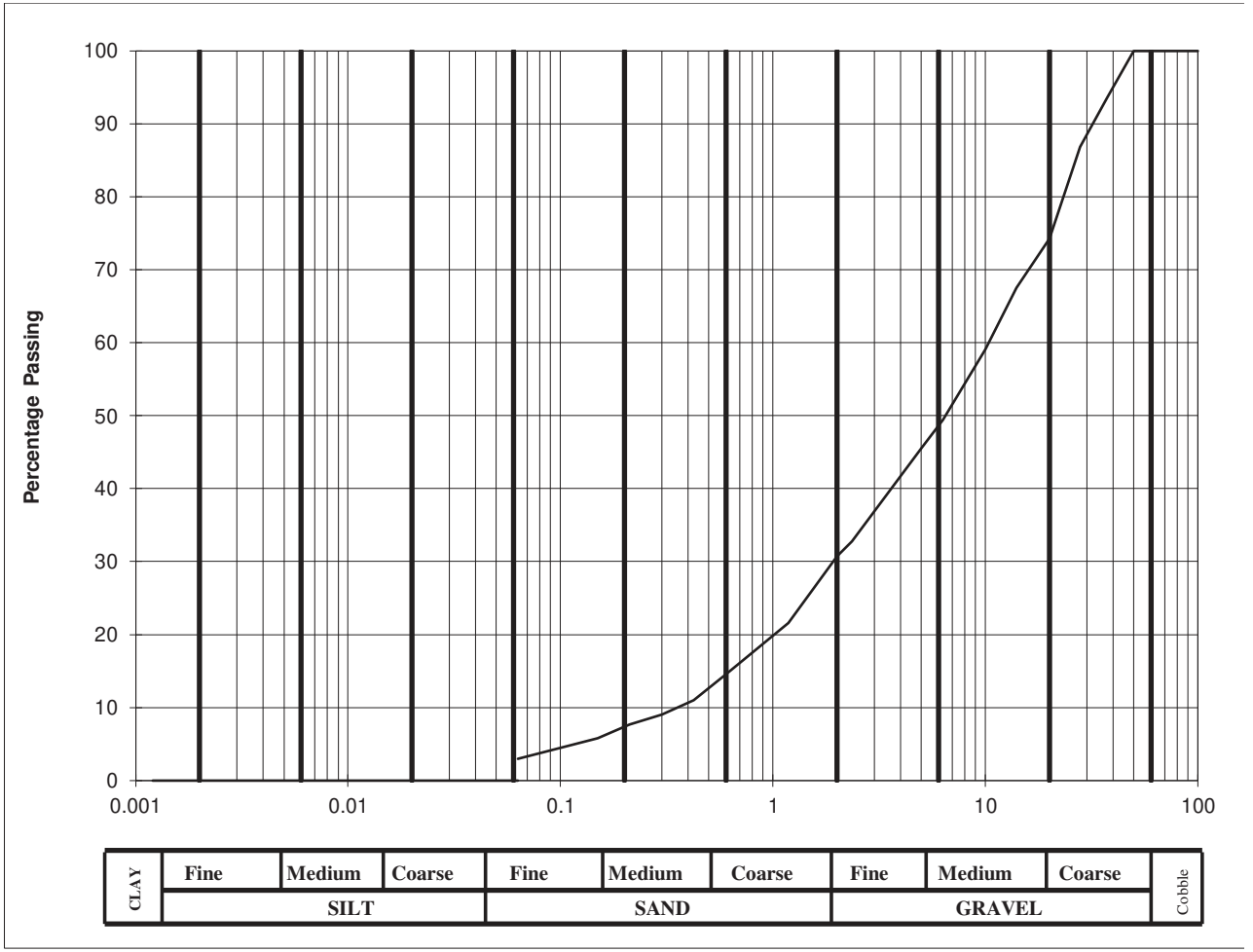
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	93.6		
28	86.8		
20	74.3		
14	67.5		
10	59.1		
6.3	49.4		
5.0	45.5		
2.36	32.8		
2.00	30.7		
1.18	21.6		
0.600	14.5		
0.425	11		
0.300	9		
0.212	7.7		
0.150	5.8		
0.063	3		

Cobbles, %	0
Gravel, %	69
Sand, %	28
Clay / Silt, %	3



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/565
Sample No :	MK39

Hole ID :	TP 67
Depth, m :	1.00

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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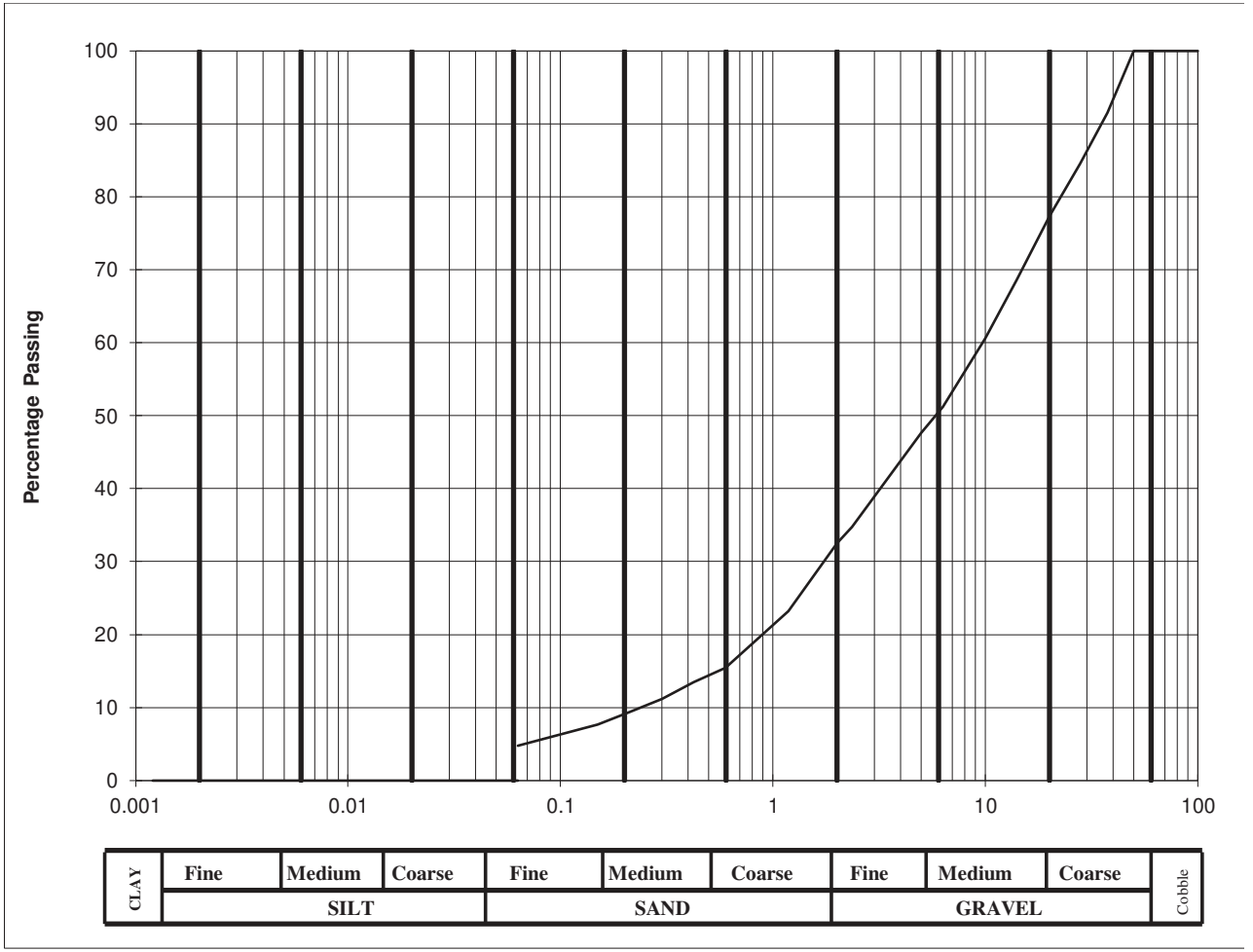
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	91.5		
28	84.5		
20	77.3		
14	68.5		
10	60.6		
6.3	51.2		
5.0	47.6		
2.36	34.7		
2.00	32.5		
1.18	23.2		
0.600	15.4		
0.425	13.5		
0.300	11.2		
0.212	9.4		
0.150	7.7		
0.063	5		

Cobbles, %	0
Gravel, %	68
Sand, %	28
Clay / Silt, %	5



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/568
Sample No :	MK342

Hole ID :	TP 80
Depth, m :	0.50

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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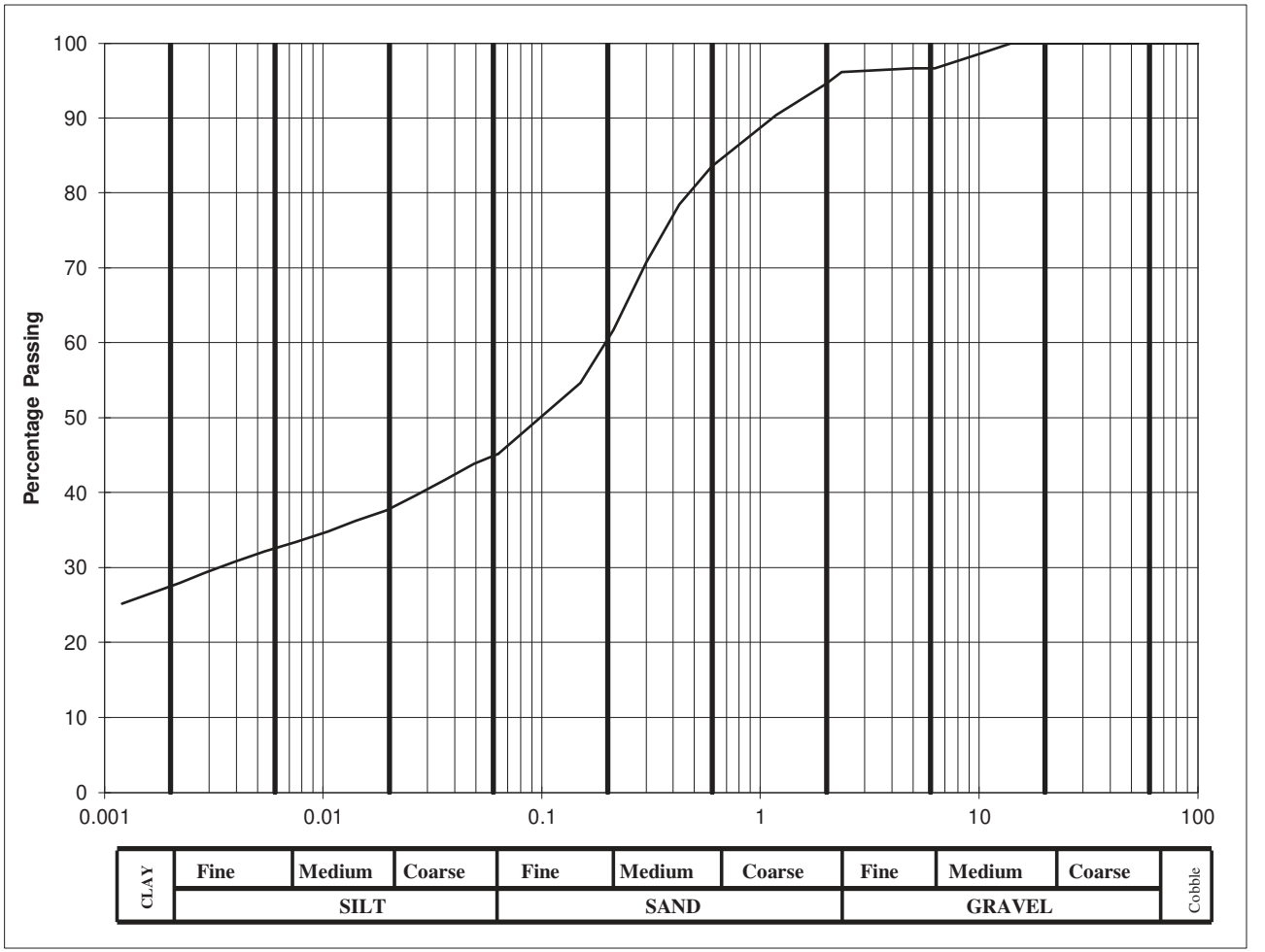
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	45
90	100	**0.0200**	38
75	100	**0.0060**	33
63	100	**0.0020**	27
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	98.5		
6.3	96.6		
5.0	96.6		
2.36	96.1		
2.00	94.5		
1.18	90.4		
0.600	83.5		
0.425	78.4		
0.300	70.7		
0.212	61.7		
0.150	54.6		
0.063	45		

Cobbles, %	0
Gravel, %	6
Sand, %	50
Silt, %	18
Clay, %	27



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/569
Sample No :	MK280

Hole ID :	TP 85
Depth, m :	2.00

Material description :	sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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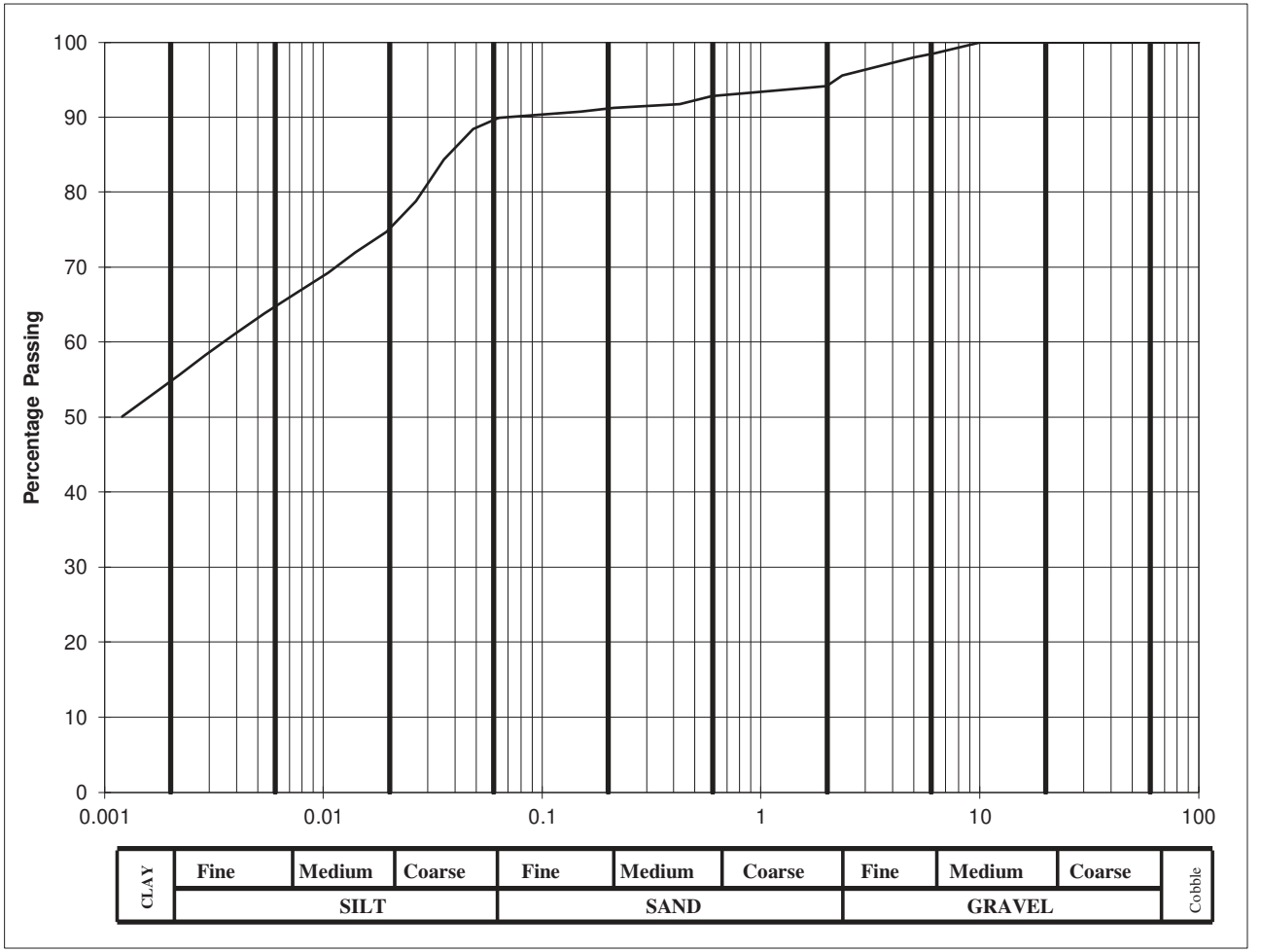
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	90
90	100	**0.0200**	75
75	100	**0.0060**	65
63	100	**0.0020**	55
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	98.5		
5.0	97.9		
2.36	95.5		
2.00	94.1		
1.18	93.5		
0.600	92.8		
0.425	91.7		
0.300	91.5		
0.212	91.2		
0.150	90.7		
0.063	90		



Cobbles, %	0
Gravel, %	6
Sand, %	4
Silt, %	35
Clay, %	55

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/570
Sample No :	MK175

Hole ID :	TP 88
Depth, m :	1.50

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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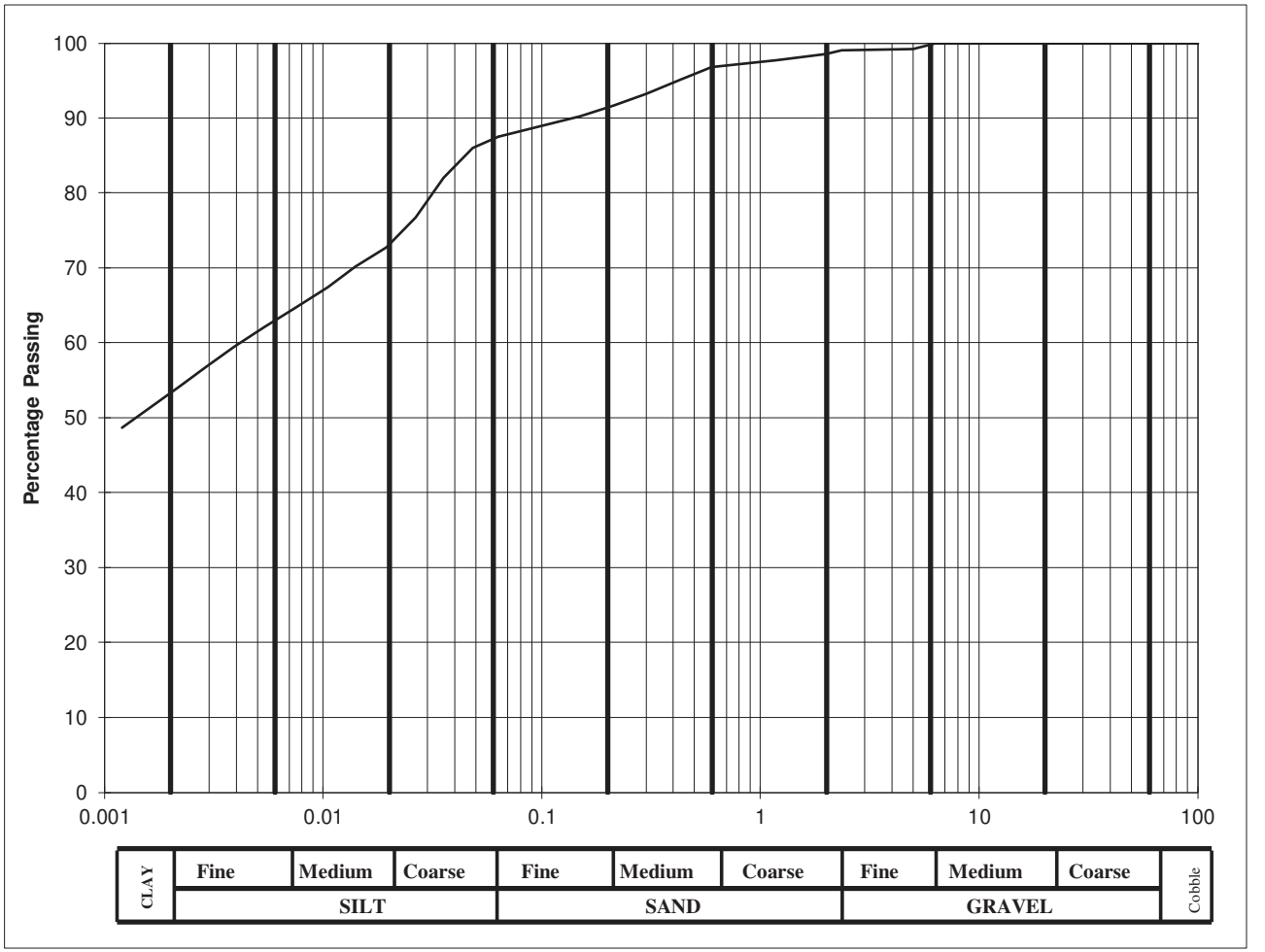
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	88
90	100	**0.0200**	72
75	100	**0.0060**	63
63	100	**0.0020**	53
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5.0	99.2		
2.36	99		
2.00	98.5		
1.18	97.7		
0.600	96.8		
0.425	95		
0.300	93.2		
0.212	91.6		
0.150	90.2		
0.063	88		



Cobbles, %	0
Gravel, %	2
Sand, %	11
Silt, %	35
Clay, %	53

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/571
Sample No :	MK172

Hole ID :	TP 93
Depth, m :	1.50

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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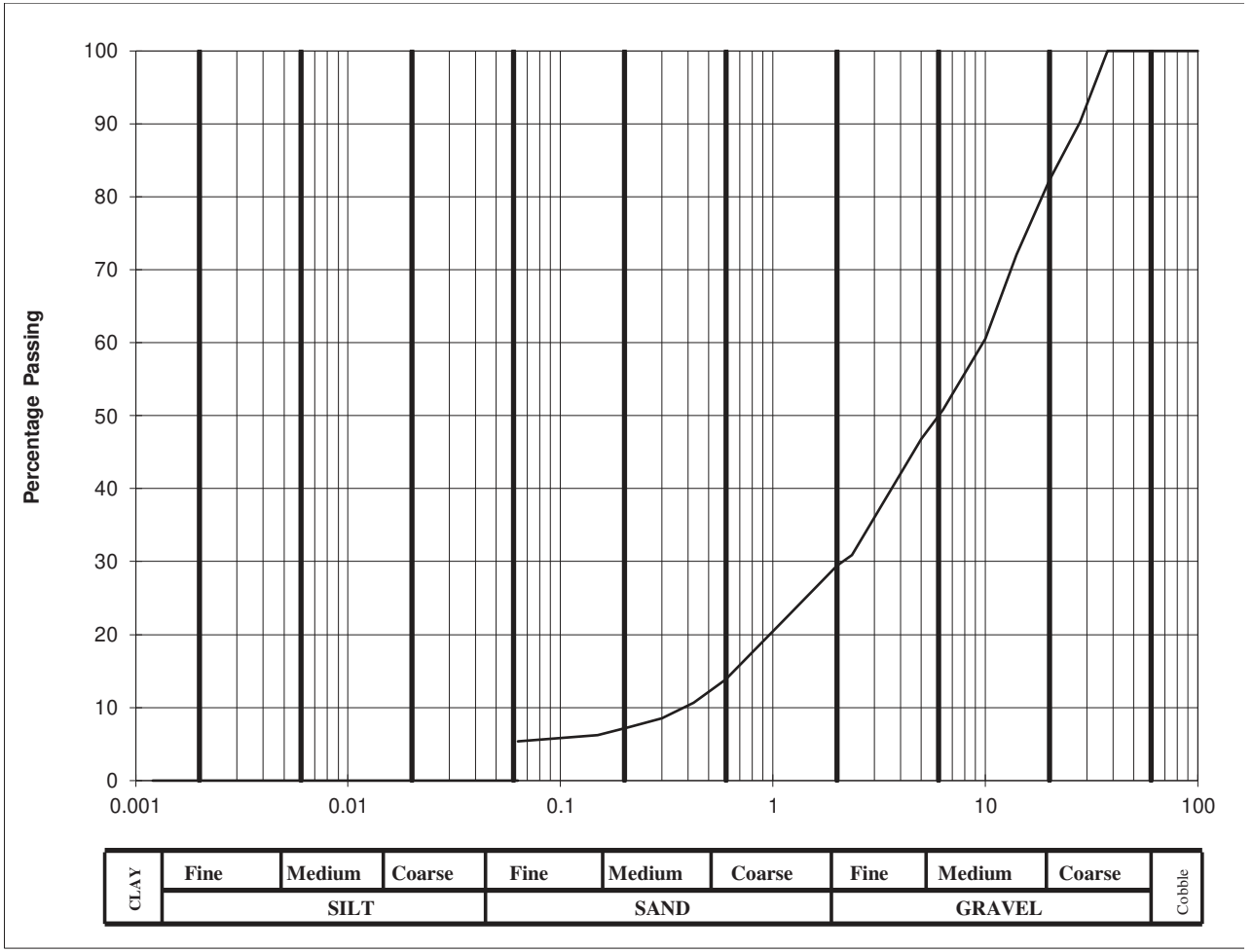
BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	90.2		
20	82.3		
14	72		
10	60.5		
6.3	50.8		
5.0	46.8		
2.36	30.9		
2.00	29.4		
1.18	22.6		
0.600	13.8		
0.425	10.7		
0.300	8.5		
0.212	7.3		
0.150	6.2		
0.063	5		

Cobbles, %	0
Gravel, %	71
Sand, %	24
Clay / Silt, %	5



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/573
Sample No :	MK265

Hole ID :	TP 102
Depth, m :	1.00

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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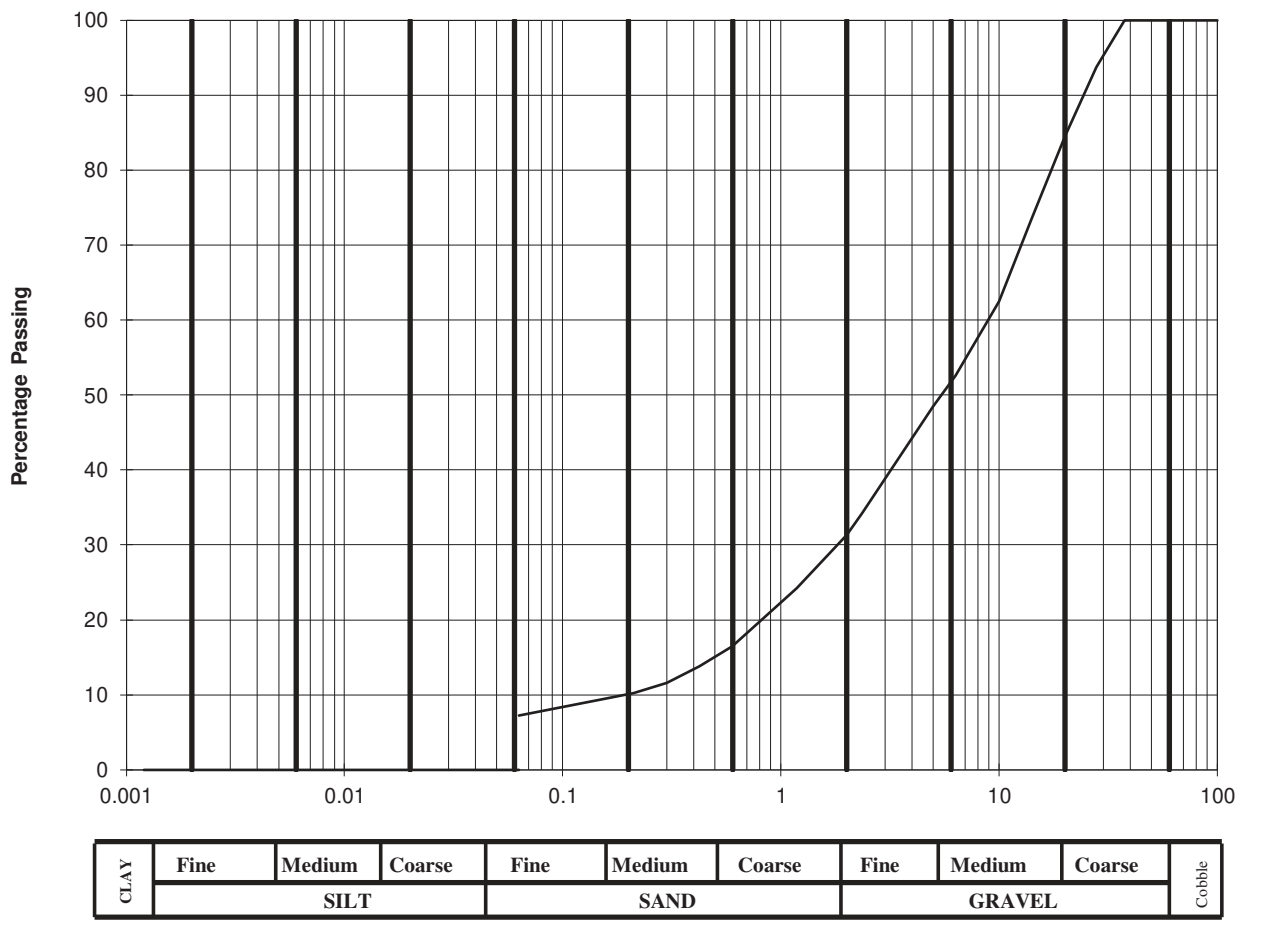
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	93.7		
20	84.5		
14	73.3		
10	62.5		
6.3	52.6		
5.0	48.5		
2.36	34.2		
2.00	31.3		
1.18	24.2		
0.600	16.5		
0.425	13.8		
0.300	11.6		
0.212	10.2		
0.150	9.4		
0.063	7		

Cobbles, %	0
Gravel, %	69
Sand, %	24
Clay / Silt, %	7



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/574
Sample No :	MK205

Hole ID :	TP 107
Depth, m :	1.00

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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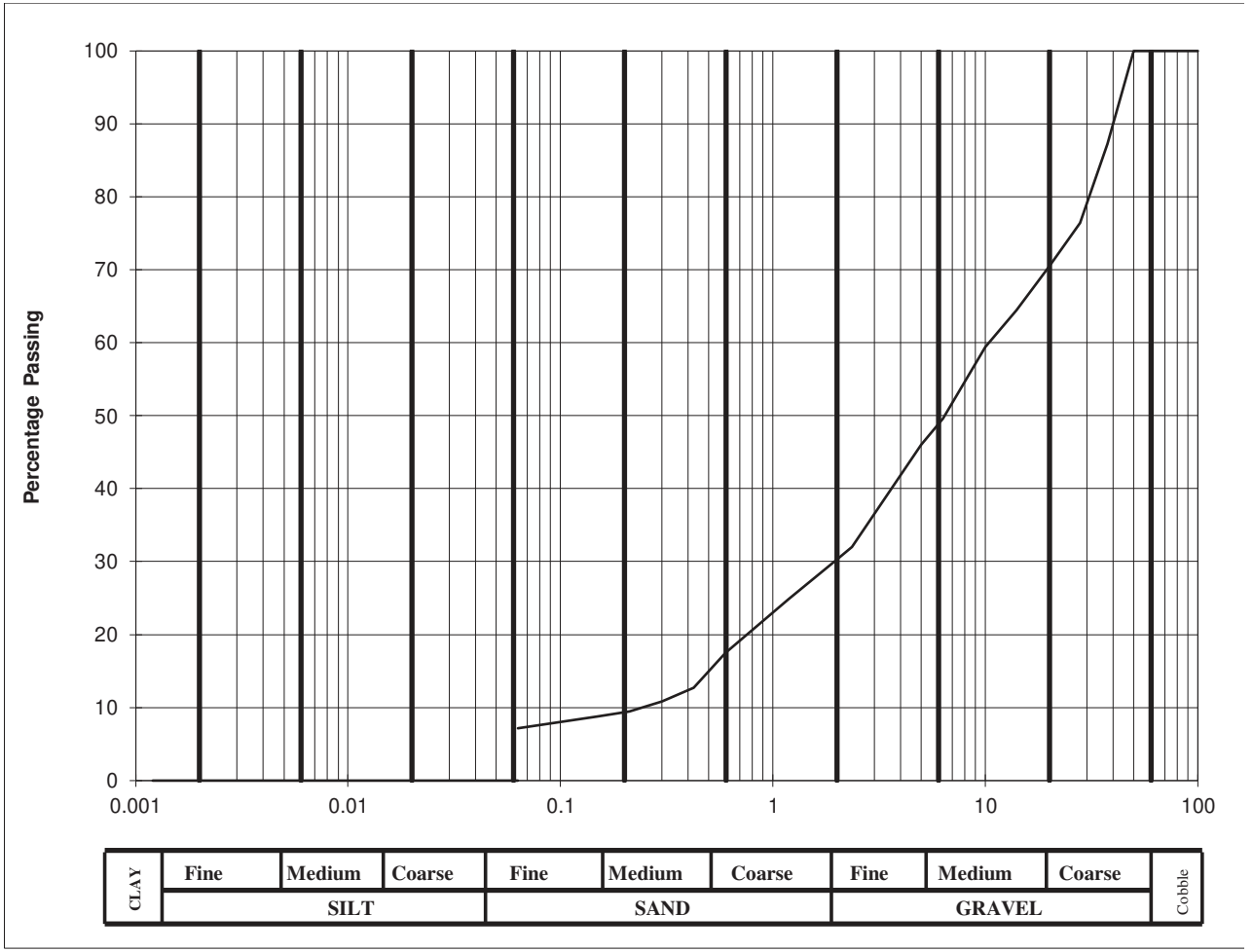
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	87.2		
28	76.4		
20	70.5		
14	64.4		
10	59.4		
6.3	49.6		
5.0	46		
2.36	32		
2.00	30.3		
1.18	24.8		
0.600	17.5		
0.425	12.7		
0.300	10.8		
0.212	9.5		
0.150	8.8		
0.063	7		

Cobbles, %	0
Gravel, %	70
Sand, %	23
Clay / Silt, %	7



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/575
Sample No :	MK17

Hole ID :	TP 110
Depth, m :	1.00

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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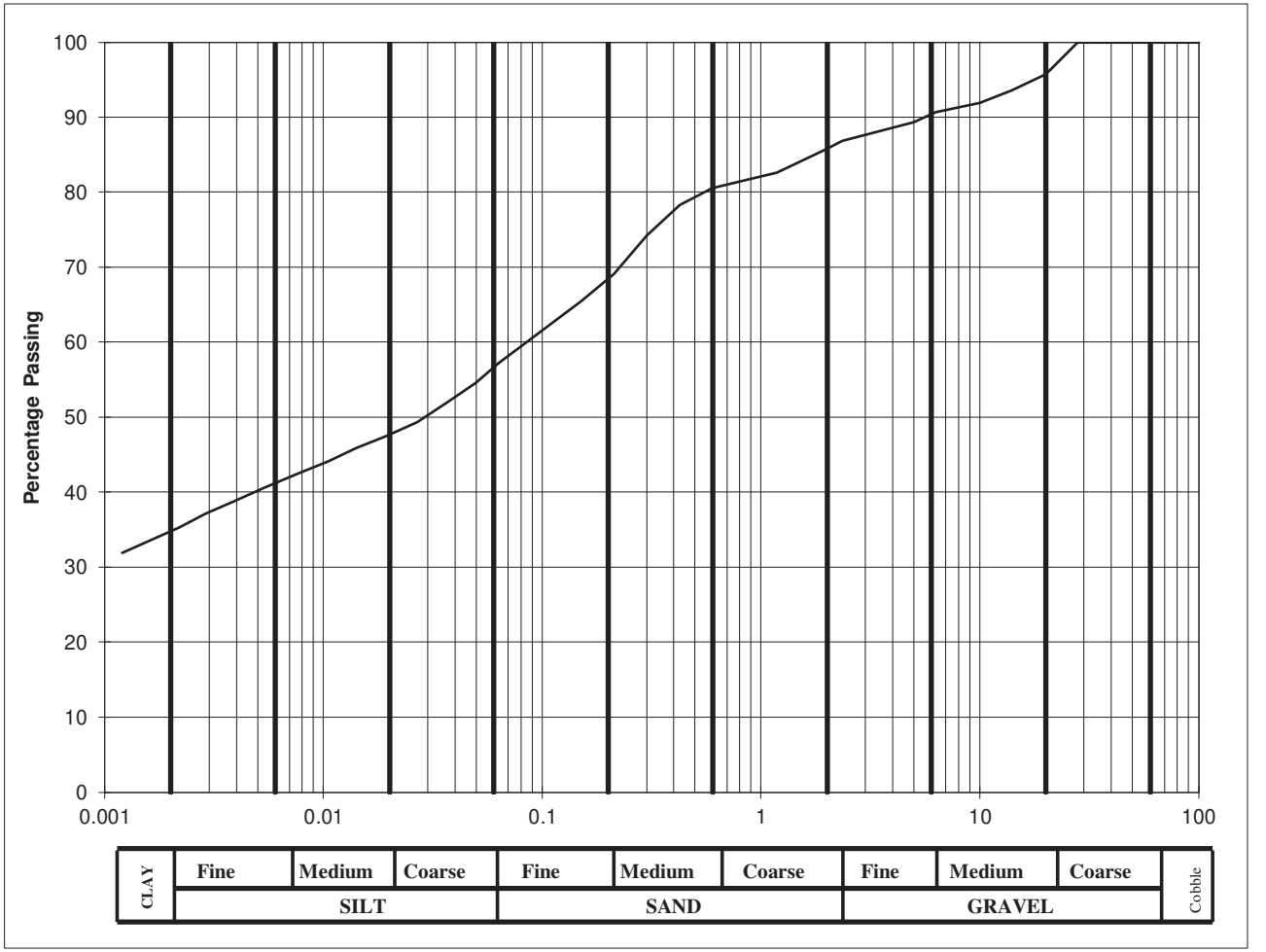
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	61
90	100	**0.0200**	51
75	100	**0.0060**	45
63	100	**0.0020**	37
50	100		
37.5	100		
28	100		
20	95.7		
14	93.5		
10	91.9		
6.3	90.6		
5.0	89.3		
2.36	86.8		
2.00	85.7		
1.18	82.6		
0.600	80.5		
0.425	78.3		
0.300	74.2		
0.212	69.1		
0.150	65.4		
0.063	57		

Cobbles, %	0
Gravel, %	14
Sand, %	29
Silt, %	20
Clay, %	37



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/576
Sample No :	MK27

Hole ID :	TP 112
Depth, m :	1.00

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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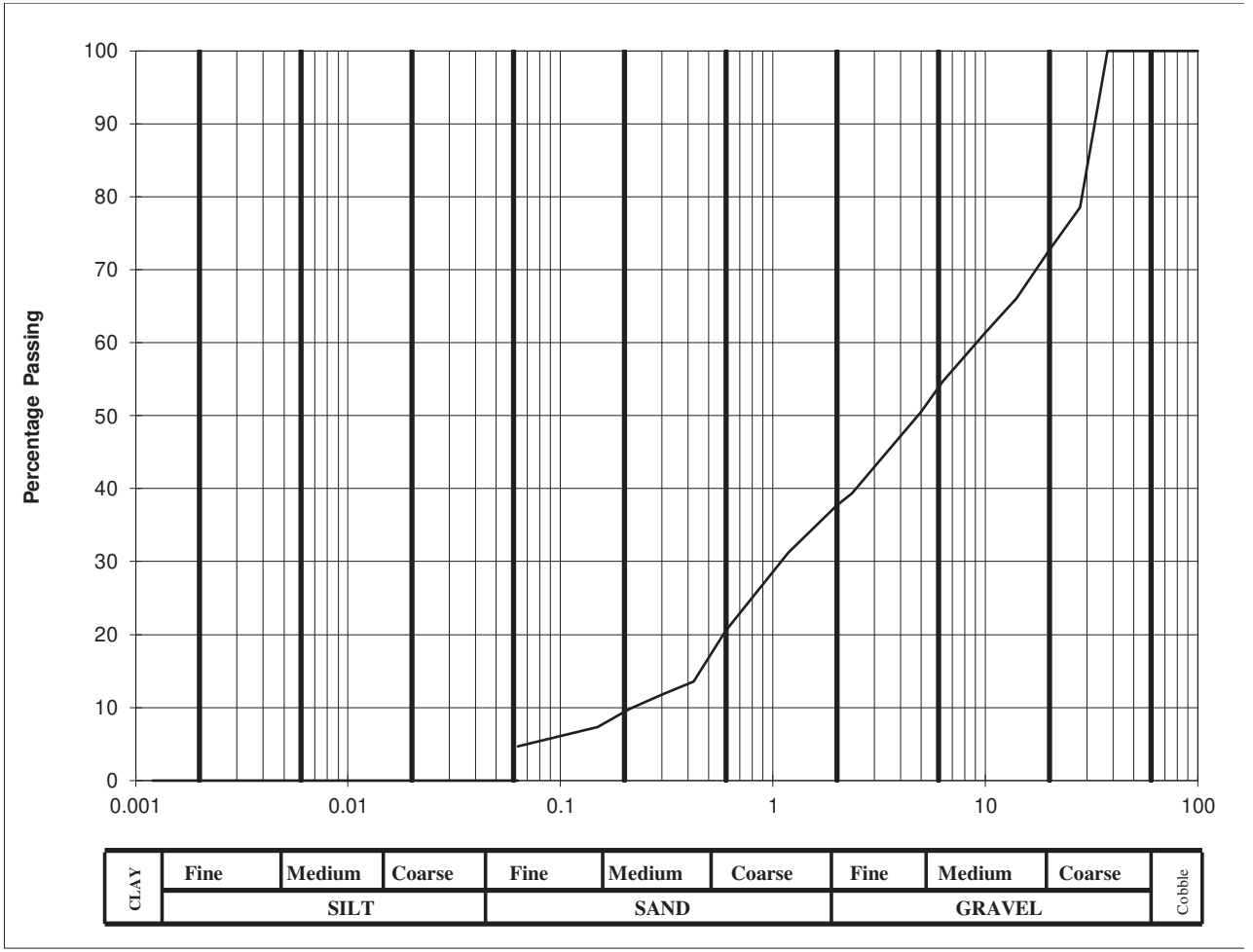
BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	78.5		
20	72.7		
14	66.1		
10	61.4		
6.3	54.7		
5.0	50.5		
2.36	39.3		
2.00	37.7		
1.18	31.2		
0.600	20.5		
0.425	13.6		
0.300	11.8		
0.212	9.8		
0.150	7.3		
0.063	5		

Cobbles, %	0
Gravel, %	62
Sand, %	33
Clay / Silt, %	5



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/577
Sample No :	MK124

Hole ID :	TP 115
Depth, m :	1.00

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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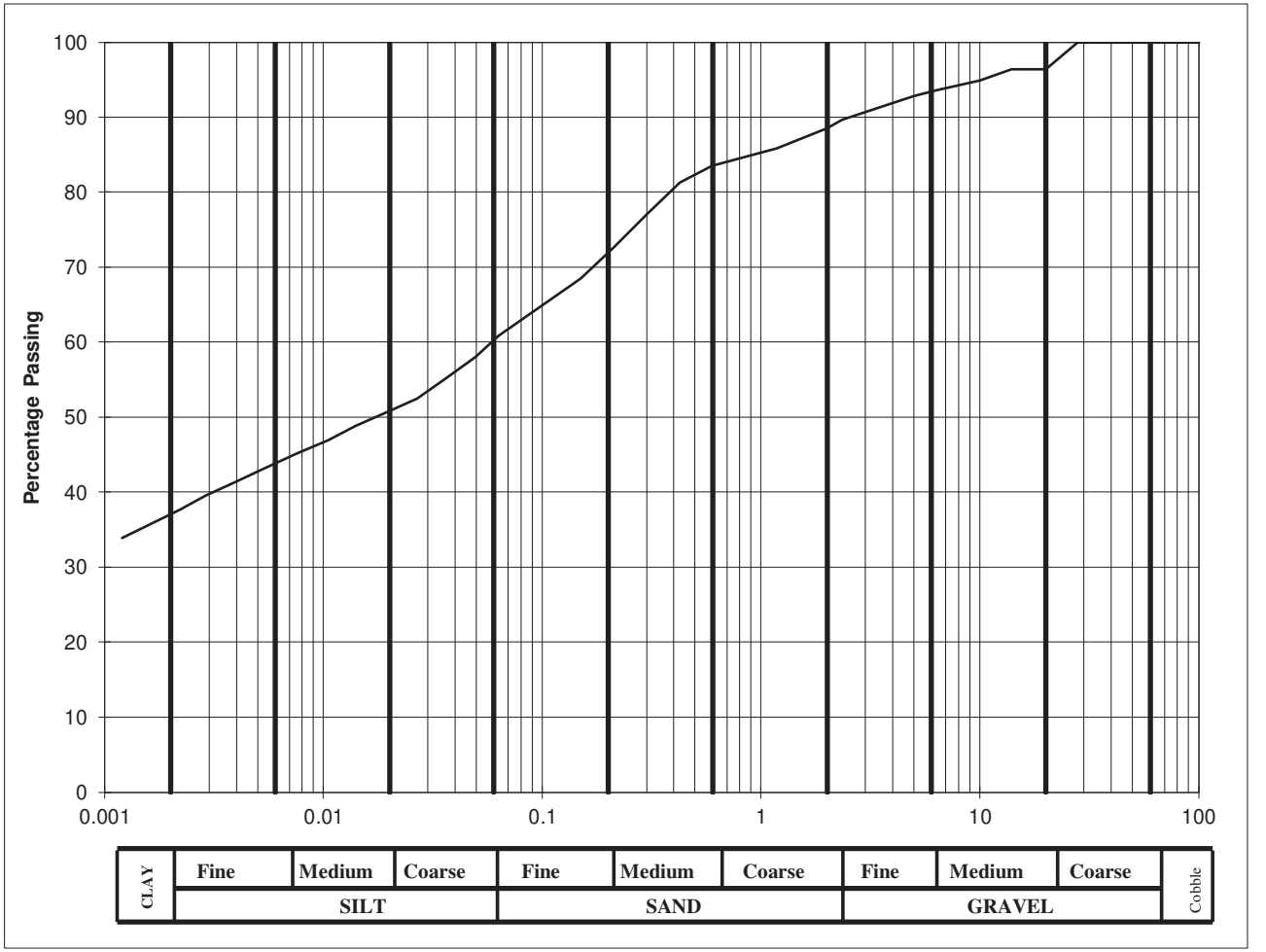
BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	61
90	100	**0.0200**	51
75	100	**0.0060**	45
63	100	**0.0020**	37
50	100		
37.5	100		
28	100		
20	96.4		
14	96.4		
10	94.9		
6.3	93.5		
5.0	92.8		
2.36	89.6		
2.00	88.5		
1.18	85.8		
0.600	83.5		
0.425	81.3		
0.300	77		
0.212	72.6		
0.150	68.5		
0.063	61		



Cobbles, %	0
Gravel, %	12
Sand, %	28
Silt, %	24
Clay, %	37

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/579
Sample No :	MK152

Hole ID :	TP 130
Depth, m :	1.50

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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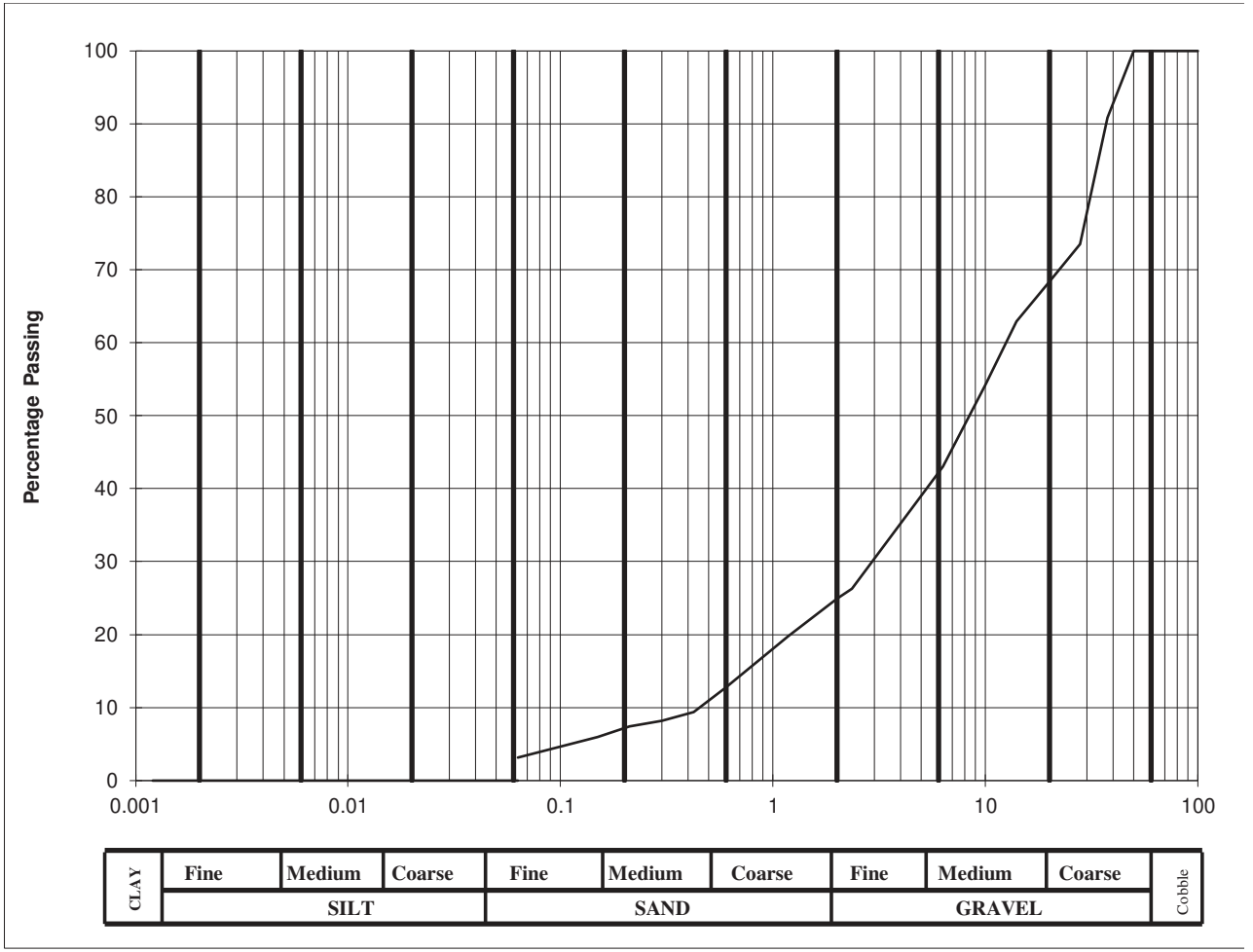
BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	90.8		
28	73.5		
20	68.4		
14	62.9		
10	54.2		
6.3	43		
5.0	39		
2.36	26.3		
2.00	24.9		
1.18	19.8		
0.600	12.7		
0.425	9.4		
0.300	8.2		
0.212	7.4		
0.150	6		
0.063	3		

Cobbles, %	0
Gravel, %	75
Sand, %	22
Clay / Silt, %	3



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/580
Sample No :	MK408

Hole ID :	TP 134
Depth, m :	1.50

Material description :	slightly silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

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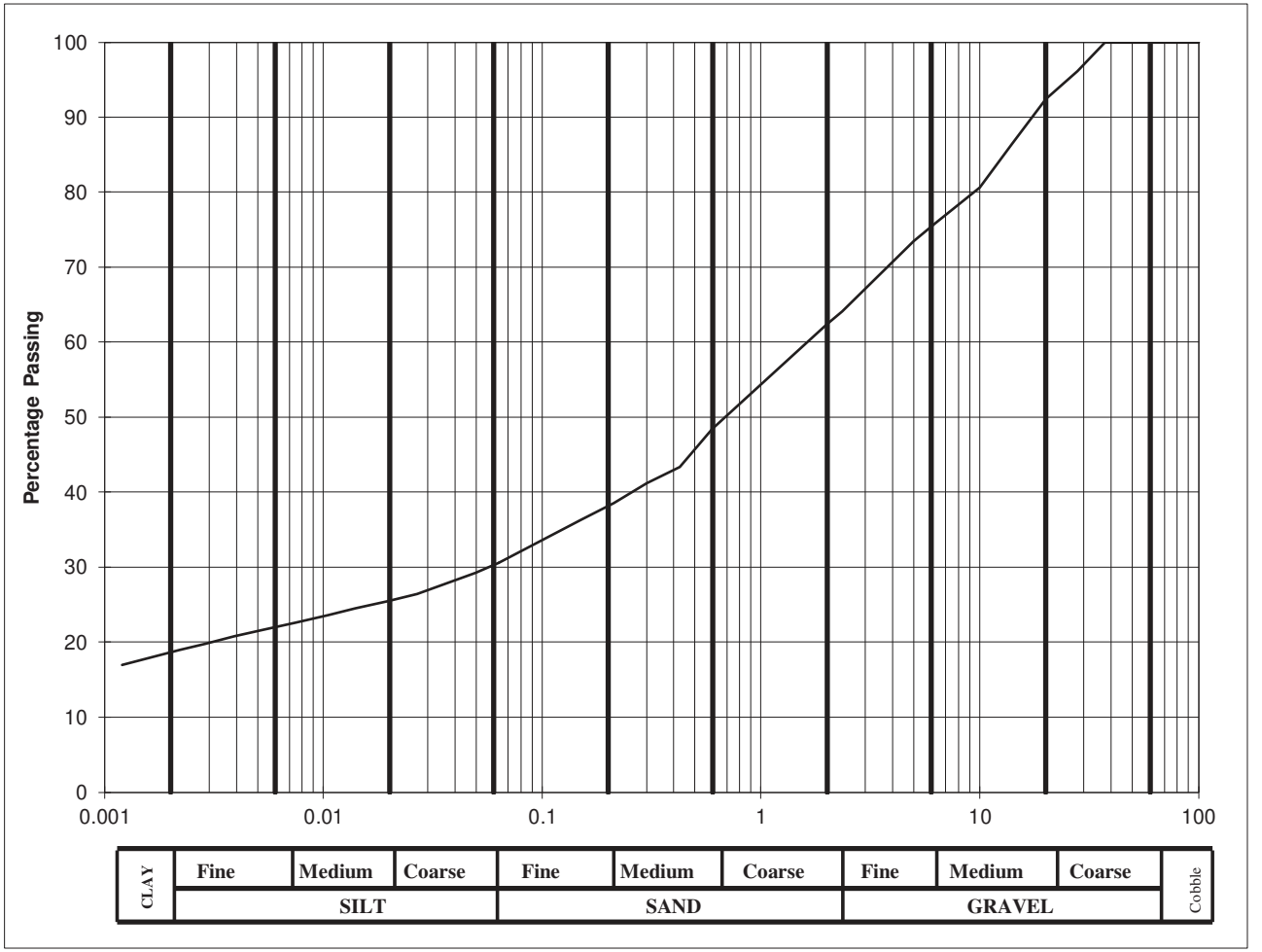
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	31
90	100	**0.0200**	26
75	100	**0.0060**	22
63	100	**0.0020**	18
50	100		
37.5	100		
28	96.1		
20	92.4		
14	86.3		
10	80.6		
6.3	75.9		
5.0	73.5		
2.36	64.1		
2.00	62.3		
1.18	56.3		
0.600	48.4		
0.425	43.3		
0.300	41.2		
0.212	38.5		
0.150	36.3		
0.063	31		



Cobbles, %	0
Gravel, %	38
Sand, %	31
Silt, %	13
Clay, %	18

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/581
Sample No :	MK271

Hole ID :	TP 142
Depth, m :	1.50

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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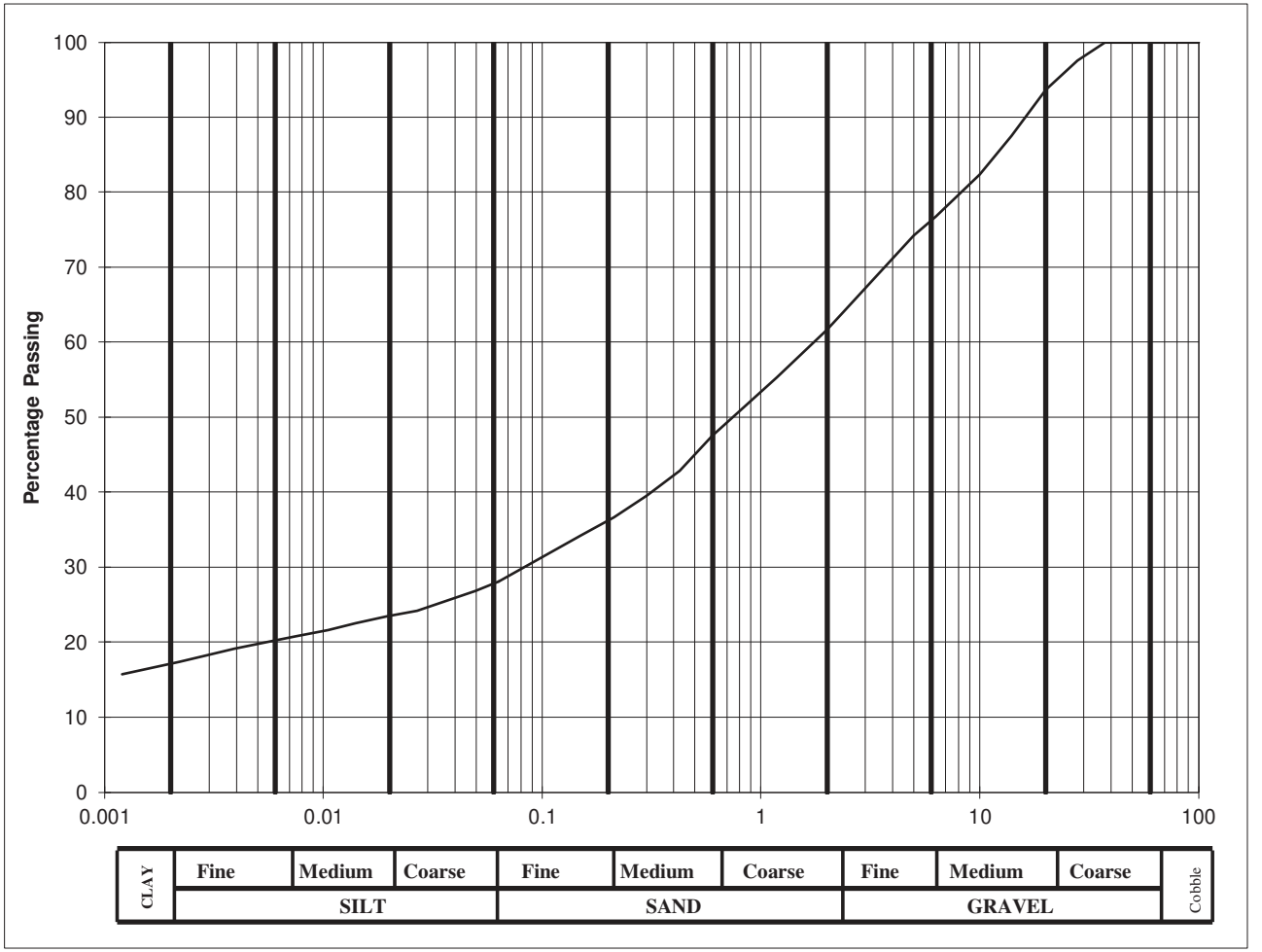
BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	28
90	100	**0.0200**	23
75	100	**0.0060**	20
63	100	**0.0020**	17
50	100		
37.5	100		
28	97.5		
20	93.6		
14	87.5		
10	82.3		
6.3	76.7		
5.0	74.2		
2.36	63.8		
2.00	61.6		
1.18	55.3		
0.600	47.5		
0.425	42.8		
0.300	39.5		
0.212	36.6		
0.150	34.2		
0.063	28		



Cobbles, %	0
Gravel, %	38
Sand, %	34
Silt, %	11
Clay, %	17

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/582
Sample No :	MK232

Hole ID :	TP 144
Depth, m :	1.00

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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BS 1377 Particle Size Analysis

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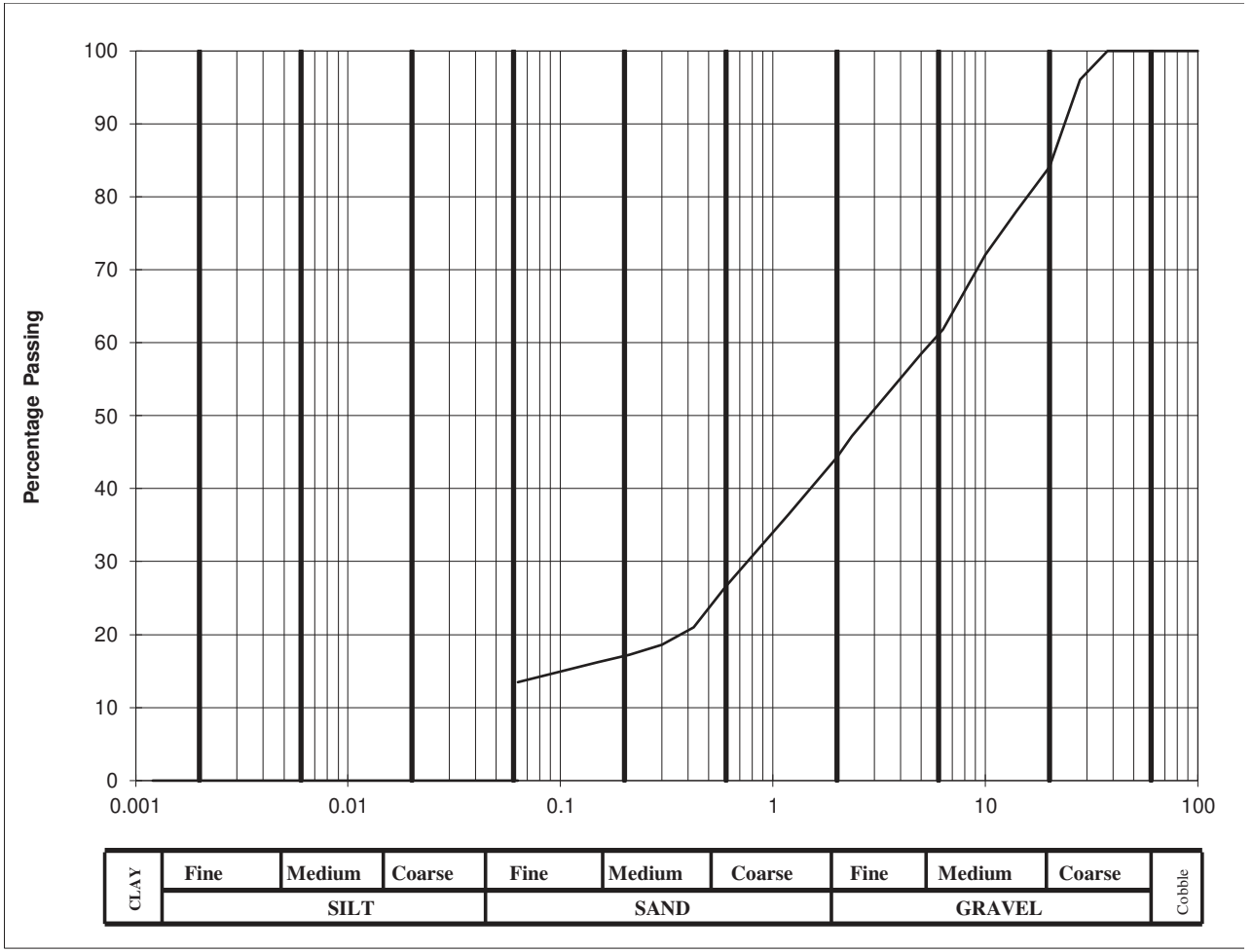
BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	100		
28	96		
20	84.1		
14	78		
10	72		
6.3	61.8		
5.0	58.5		
2.36	47.2		
2.00	44.3		
1.18	36.4		
0.600	26.5		
0.425	21		
0.300	18.6		
0.212	17.2		
0.150	16.2		
0.063	14		

Cobbles, %	0
Gravel, %	56
Sand, %	30
Clay / Silt, %	14



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/584
Sample No :	MK269

Hole ID :	TP 150
Depth, m :	1.00

Material description :	silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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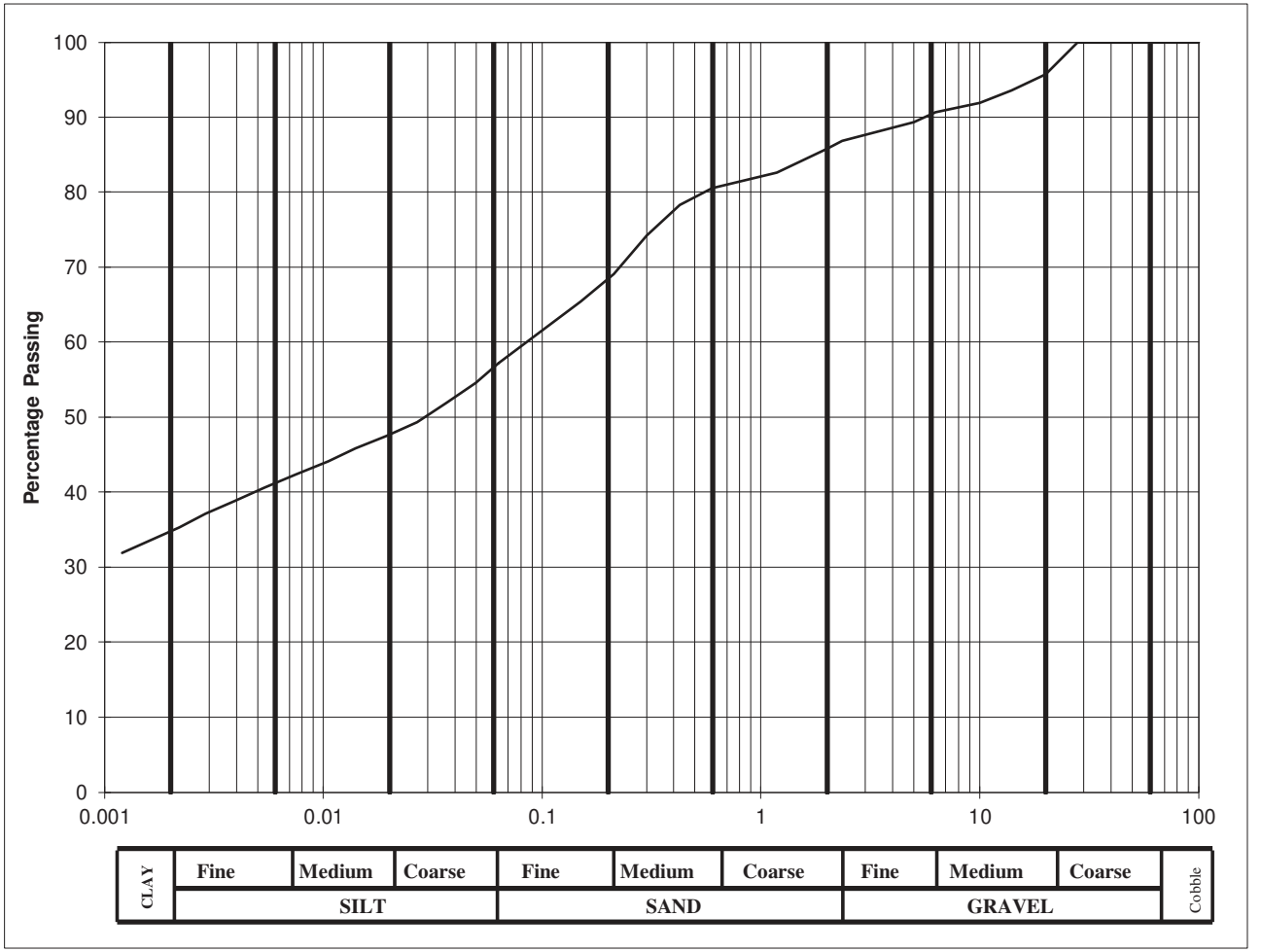
BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	61
90	100	**0.0200**	51
75	100	**0.0060**	45
63	100	**0.0020**	37
50	100		
37.5	100		
28	100		
20	95.7		
14	93.5		
10	91.9		
6.3	90.6		
5.0	89.3		
2.36	86.8		
2.00	85.7		
1.18	82.6		
0.600	80.5		
0.425	78.3		
0.300	74.2		
0.212	69.1		
0.150	65.4		
0.063	57		

Cobbles, %	0
Gravel, %	14
Sand, %	29
Silt, %	20
Clay, %	37



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/585
Sample No :	MK223

Hole ID :	TP 151
Depth, m :	1.00

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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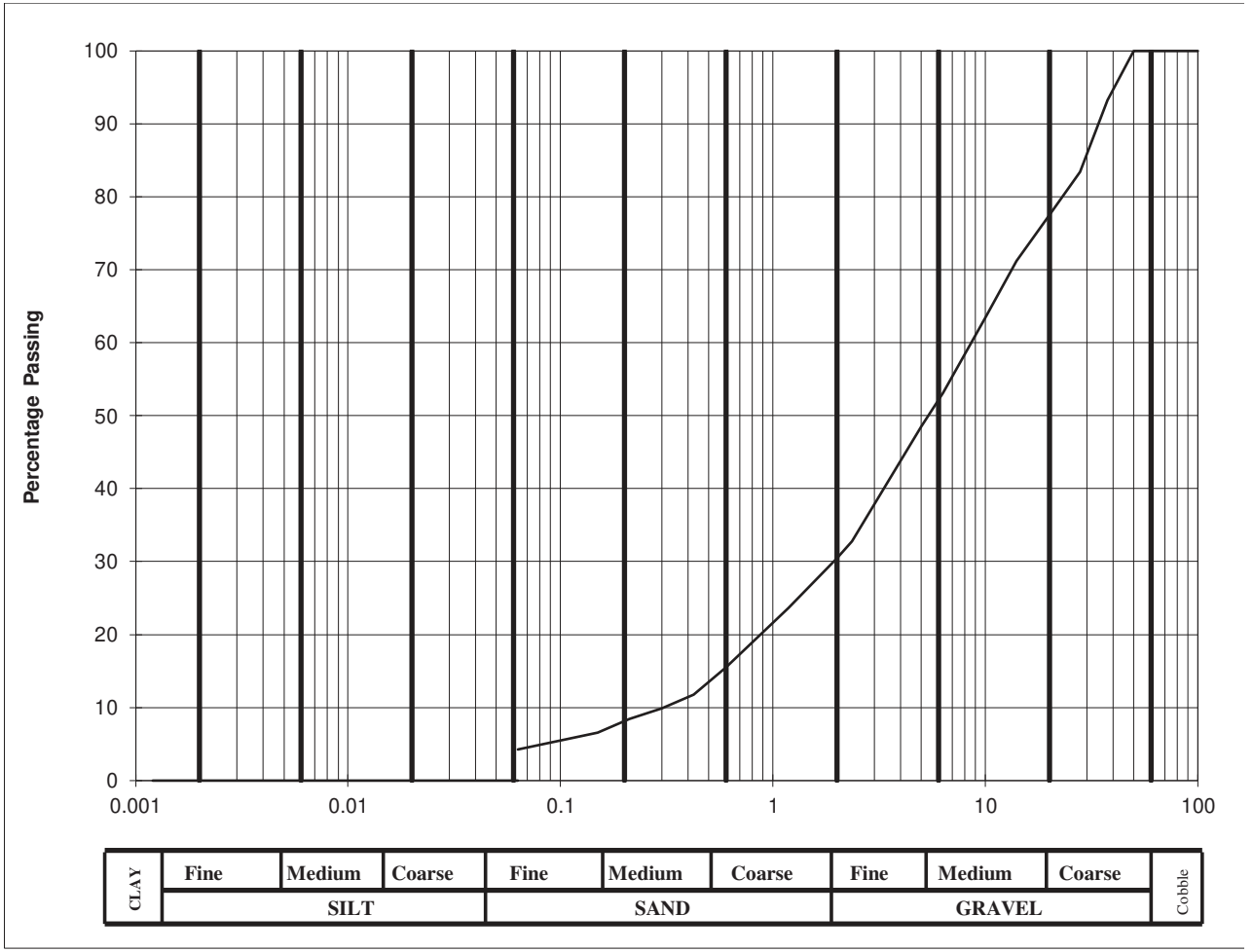
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	93.2		
28	83.4		
20	77.5		
14	71.2		
10	63.4		
6.3	53.1		
5.0	48.5		
2.36	32.8		
2.00	30.5		
1.18	23.6		
0.600	15.4		
0.425	11.8		
0.300	9.9		
0.212	8.4		
0.150	6.6		
0.063	4		

Cobbles, %	0
Gravel, %	70
Sand, %	27
Clay / Silt, %	4



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/586
Sample No :	MK220

Hole ID :	TP 156
Depth, m :	0.50

Material description :	slightly silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
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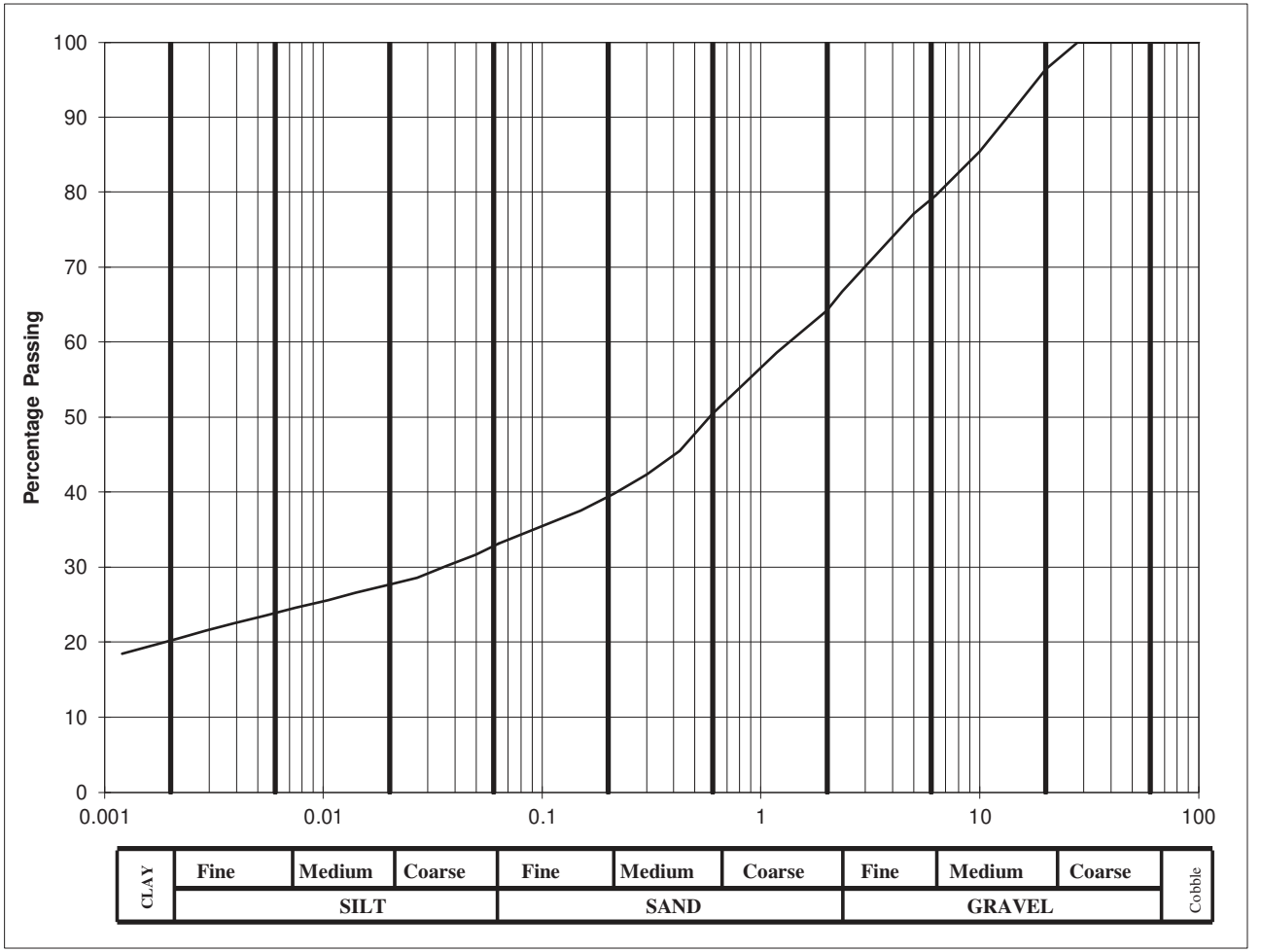
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	33
90	100	**0.0200**	28
75	100	**0.0060**	24
63	100	**0.0020**	20
50	100		
37.5	100		
28	100		
20	96.4		
14	90.6		
10	85.4		
6.3	79.5		
5.0	77.1		
2.36	66.7		
2.00	64.2		
1.18	58.6		
0.600	50.4		
0.425	45.5		
0.300	42.3		
0.212	39.8		
0.150	37.5		
0.063	33		



Cobbles, %	0
Gravel, %	36
Sand, %	31
Silt, %	13
Clay, %	20

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/588
Sample No :	MK353

Hole ID :	TP 167
Depth, m :	0.50

Material description :	slightly sandy gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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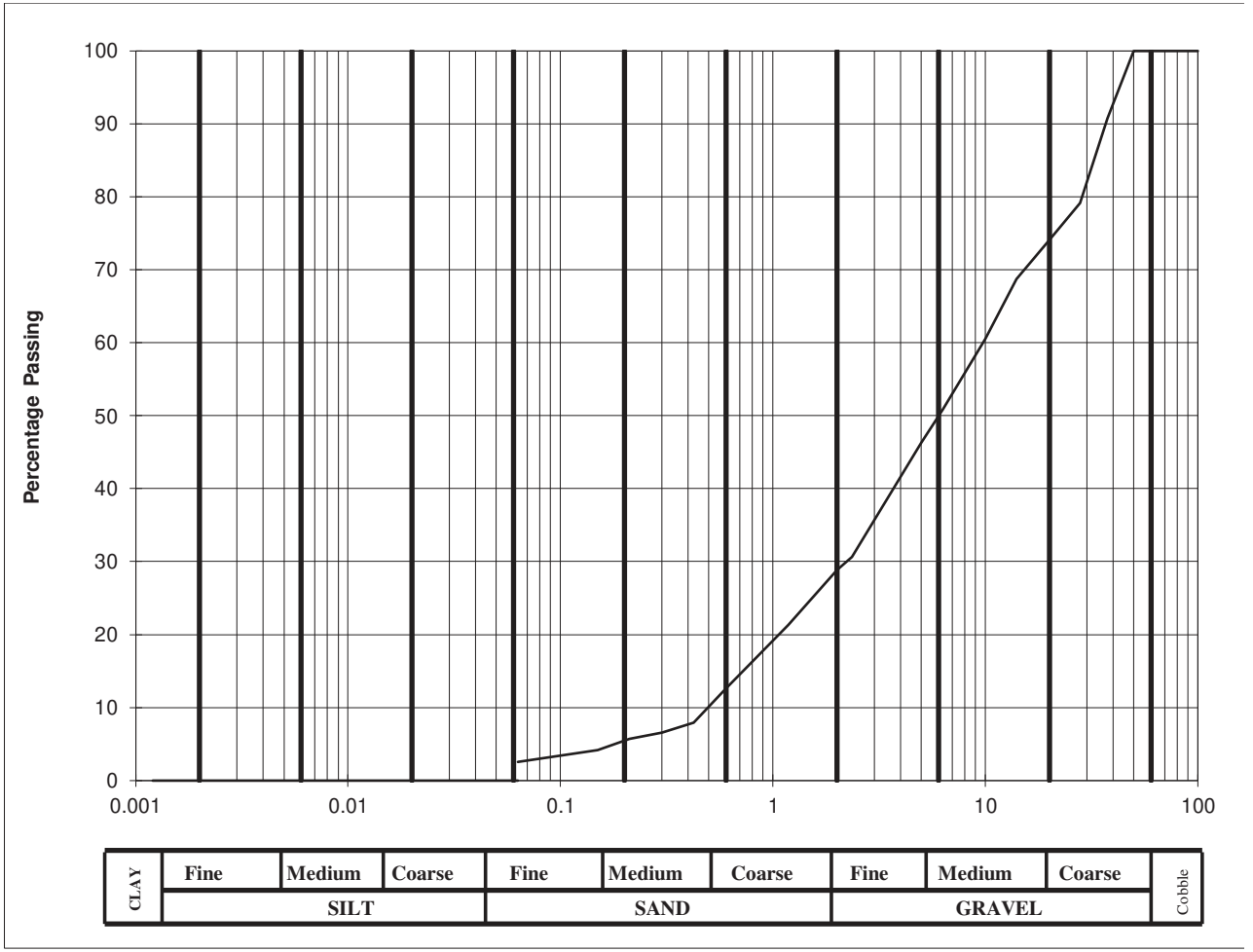
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	
90	100	**0.0200**	
75	100	**0.0060**	
63	100	**0.0020**	
50	100		
37.5	90.7		
28	79.1		
20	74.1		
14	68.7		
10	60.5		
6.3	50.9		
5.0	46.3		
2.36	30.6		
2.00	28.8		
1.18	21.3		
0.600	12.5		
0.425	7.9		
0.300	6.6		
0.212	5.7		
0.150	4.2		
0.063	3		

Cobbles, %	0
Gravel, %	71
Sand, %	26
Clay / Silt, %	3



Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/589
Sample No :	MK298

Hole ID :	TP 169
Depth, m :	1.00

Material description :	slightly silty very sandy GRAVEL
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

File No: 5502
Printed 07/07/2023

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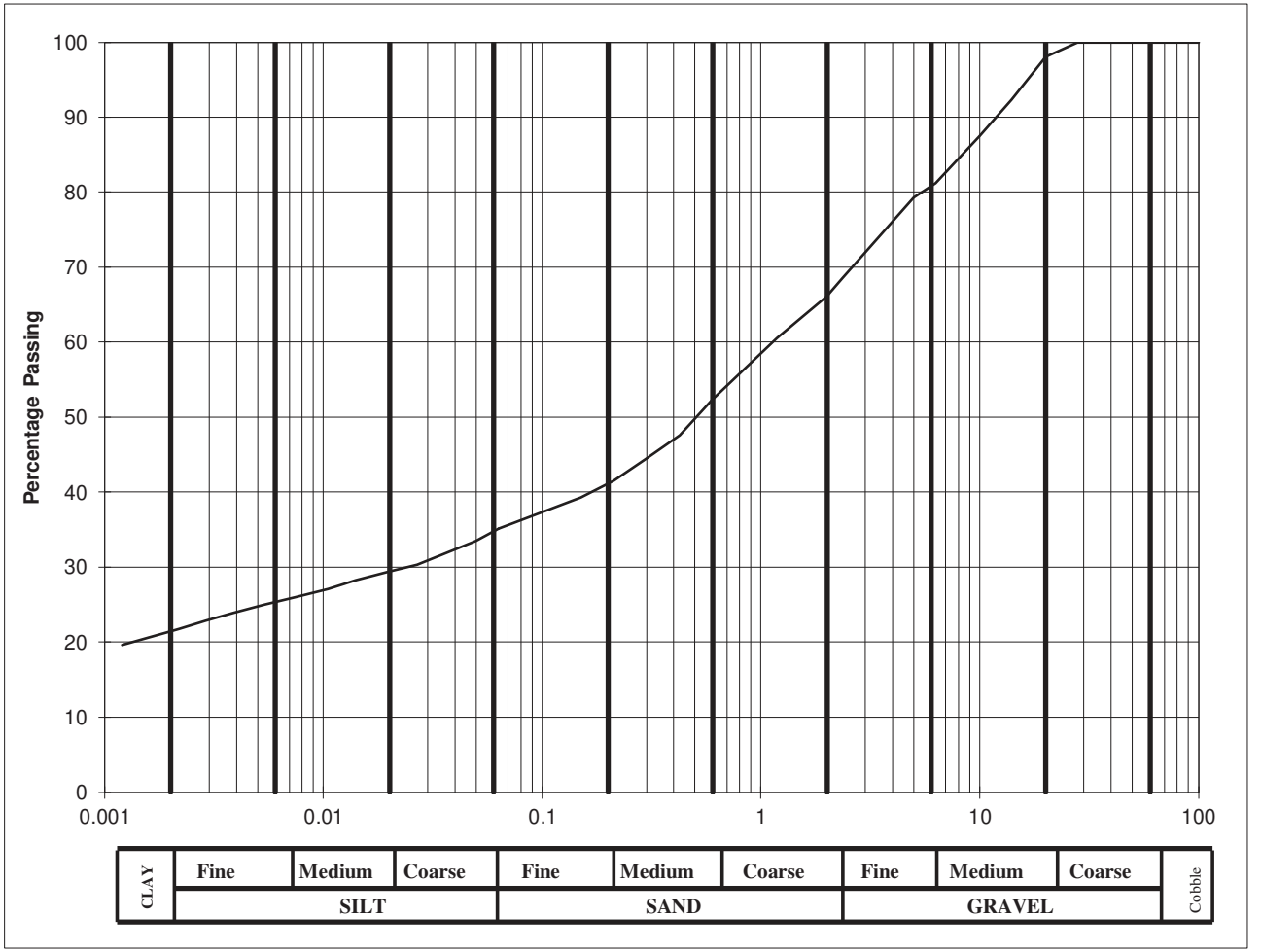
Site Investigations Ltd

BS 1377 Particle Size Analysis

Site Investigations Limited

BS Sieve size, mm	Percent passing	Hydrometer analysis	
		Diameter, mm	% passing
100	100	**0.0630**	35
90	100	**0.0200**	29
75	100	**0.0060**	25
63	100	**0.0020**	22
50	100		
37.5	100		
28	100		
20	98		
14	92.3		
10	87.5		
6.3	81.2		
5.0	79.3		
2.36	68.5		
2.00	66.1		
1.18	60.5		
0.600	52.3		
0.425	47.6		
0.300	44.5		
0.212	41.5		
0.150	39.3		
0.063	35		



Cobbles, %	0
Gravel, %	34
Sand, %	31
Silt, %	13
Clay, %	22

Client :	Cairn Homes Ltd.
Project :	Blessington - Phase 3

Lab. No :	23/590
Sample No :	MK297

Hole ID :	TP 173
Depth, m :	1.50

Material description :	slightly sandy slightly gravelly silty CLAY
Remarks :	Soils with clay or silt content between 15% - 35% can be classified as clay or silt depending on the field Engineers assessment of in-situ behaviour. Where material is for re-use and therefore disturbed, only soils with clay or silt >35% are classified as clay or silt

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California Bearing Ratio (CBR) In accordance with BS1377: Part 4: Method 7

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I. File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email info@siteinvestigations.ie
Report Date	5th July 2023

CBR No	Depth (mBGL)	Sample No	Sample Type	Lab Ref	Moisture Content (%)	CBR Value (%)	Location / Remarks
TP01	1.50	MK74	CBR	23/546	27.4	3.7	
TP03	2.00	MK67	CBR	23/547	29.1	4.1	
TP05	0.50	MK58	CBR	23/548	18.9	5.1	
TP07	1.00	MK71	CBR	23/549	15.4	6.3	
TP08	1.00	MK119	CBR	23/550	23.9	5.2	
TP17	1.00	MK41	CBR	23/551	18.0	5.5	
TP21	1.00	MK48	CBR	23/552	15.4	11.8	
TP29	2.00	MK292	CBR	23/554	23.1	4.4	
TP32	1.00	MK100	CBR	23/555	17.1	6.5	
TP37	0.50	MK76	CBR	23/556	17.3	8.2	
TP38	1.00	MK83	CBR	23/557	20.8	7.1	
TP41	1.00	MK85	CBR	23/558	22.2	4.3	
TP53	1.00	MK324	CBR	23/561	22.1	3.8	
TP57	0.50	MK424	CBR	23/563	5.0	16.8	
TP63	1.50	MK437	CBR	23/564	25.2	4.4	
TP68	0.50	MK309	CBR	23/566	13.1	10.6	
TP77	0.50	MK363	CBR	23/567	14.2	6.9	
TP85	2.00	MK280	CBR	23/569	19.0	8.4	
TP88	1.50	MK175	CBR	23/570	27.5	5.1	
TP94	1.50	MK165	CBR	23/572	15.3	5.4	
TP112	1.00	MK27	CBR	23/576	14.4	10.2	
TP116	0.50	MK20	CBR	23/578	7.9	11.5	
TP130	1.50	MK152	CBR	23/579	15.9	8.8	

California Bearing Ratio (CBR) In accordance with BS1377: Part 4: Method 7

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I. File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email info@siteinvestigations.ie
Report Date	5th July 2023

CBR No	Depth (mBGL)	Sample No	Sample Type	Lab Ref	Moisture Content (%)	CBR Value (%)	Location / Remarks
TP142	1.50	MK271	CBR	23/581	22.6	6.4	
TP144	1.00	MK232	CBR	23/582	18.3	7.3	
TP145	1.50	MK238	CBR	23/583	16.2	6.3	
TP151	1.00	MK223	CBR	23/585	20.6	7.0	
TP159	0.50	MK262	CBR	23/587	13.3	12.6	
TP167	0.50	MK353	CBR	23/588	18.2	8.3	
TP173	1.50	MK297	CBR	23/590	19.2	7.4	

Determination of Moisture Content BS 1377: Part 2: Method 3
Determination of Moisture Condition Value BS 1377: Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Email info@siteinvestigations.ie
Report date	6th July 2023

Hole ID	Depth	Sample No	Ref No.	Sample Type	Natural Moisture Content %	Moisture Condition Value	Remarks
TP01	1.50	MK74	23/546	B	27.4	4.8	
TP03	2.00	MK67	23/547	B	29.1	5.2	
TP05	0.50	MK58	23/548	B	18.9	6.2	
TP07	1.00	MK71	23/549	B	15.4	6.3	
TP08	1.00	MK119	23/550	B	23.9	4.4	
TP17	1.00	MK41	23/551	B	18.0	6.3	
TP21	1.00	MK48	23/552	B	15.4	12.2	
TP29	2.00	MK292	23/554	B	23.1	5.7	
TP32	1.00	MK100	23/555	B	17.1	8.2	
TP37	0.50	MK76	23/556	B	17.3	5.8	
TP38	1.00	MK83	23/557	B	20.8	5.4	
TP41	1.00	MK85	23/558	B	22.2	6.5	
TP53	1.00	MK324	23/561	B	22.1	5.4	
TP57	0.50	MK424	23/563	B	5.0	12.3	
TP63	1.50	MK437	23/564	B	25.2	4.0	
TP68	0.50	MK309	23/566	B	13.1	10.4	
TP77	0.50	MK363	23/567	B	14.2	7.0	
TP85	2.00	MK280	23/569	B	19.0	6.1	
TP88	1.50	MK175	23/570	B	27.5	3.8	
TP94	1.50	MK165	23/572	B	15.3	7.0	
TP112	1.00	MK27	23/576	B	14.4	7.5	

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TP116	0.50	MK20	23/578	B	7.9	9.6	
TP130	1.50	MK152	23/579	B	15.9	8.2	
TP142	1.50	MK271	23/581	B	22.6	5.5	
TP144	1.00	MK232	23/582	B	18.3	6.1	
TP145	1.50	MK238	23/583	B	16.2	6.3	
TP151	1.00	MK223	23/585	B	20.6	5.9	
TP159	0.50	MK262	23/587	B	13.3	6.3	
TP167	0.50	MK353	23/588	B	18.2	6.6	
TP173	1.50	MK297	23/590	B	19.2	7.7	

Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

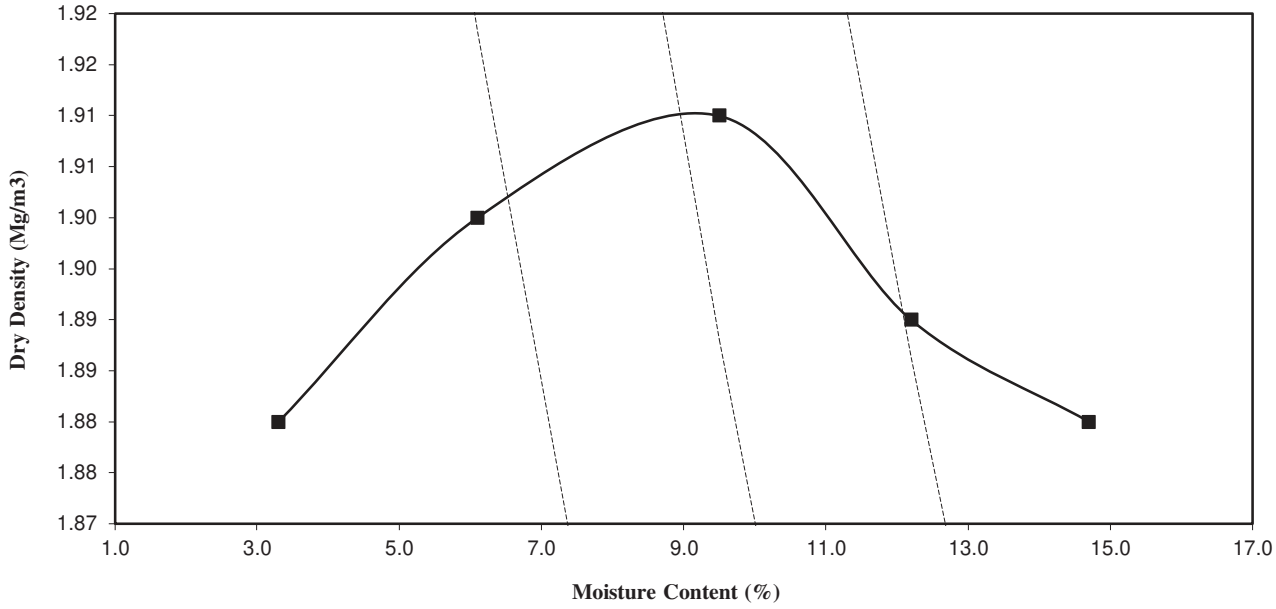
Hole Id:	TP01
Depth (mBGL):	1.50
Lab Ref:	23/546
Sample No	MK74

Particle Density
2.45
Assumed

Natural Moisture Content (%)	27.4
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.91
Optimum Moisture Content (%)	9.1

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.3	6.1	9.5	12.2	14.7
Dry Density (Mg/m3)	1.88	1.90	1.91	1.89	1.88

Material Description
slightly sandy silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

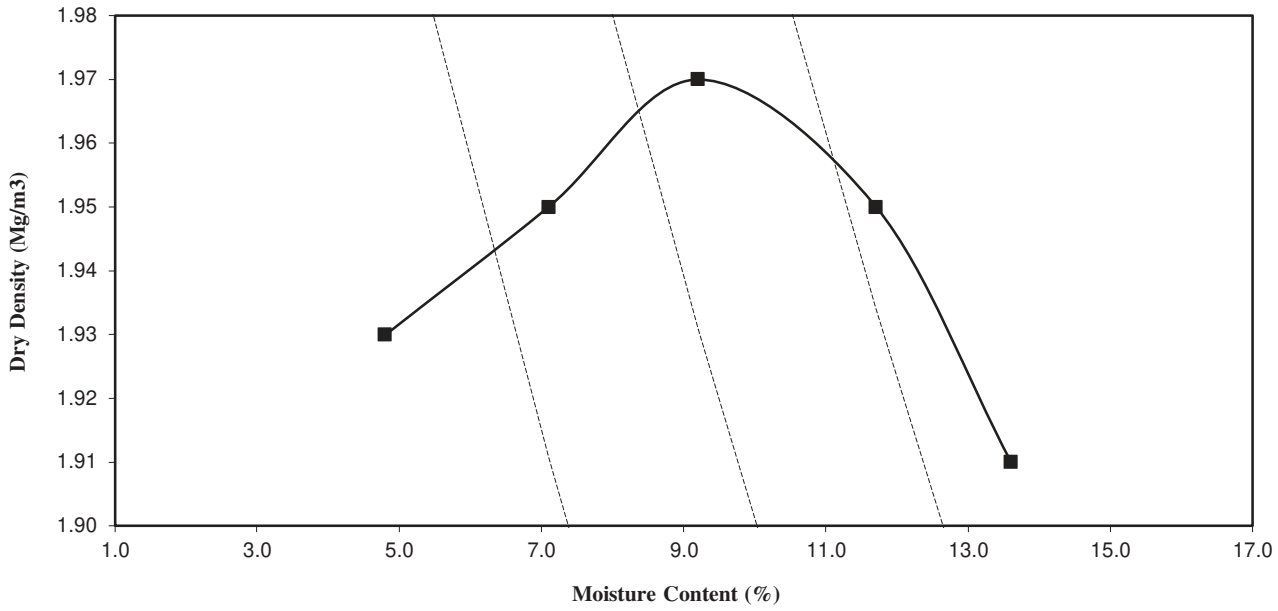
Hole Id:	TP03
Depth (mBGL):	2.00
Lab Ref:	23/547
Sample No	MK67

Particle Density
2.5
Assumed

Natural Moisture Content (%)	29.1
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.97
Optimum Moisture Content (%)	9.2

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.8	7.1	9.2	11.7	13.6
Dry Density (Mg/m3)	1.93	1.95	1.97	1.95	1.91

Material Description
slightly sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

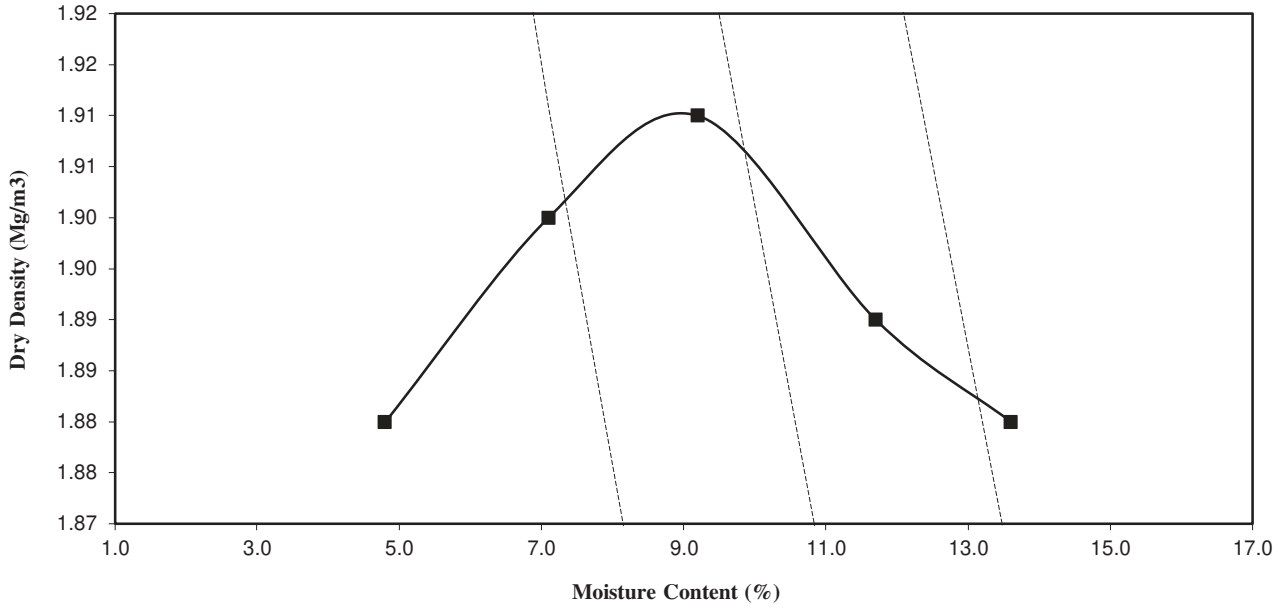
Hole Id:	TP05
Depth (mBGL):	0.50
Lab Ref:	23/548
Sample No	MK58

Particle Density
2.5
Assumed

Natural Moisture Content (%)	18.9
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.91
Optimum Moisture Content (%)	8.7

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.8	7.1	9.2	11.7	13.6
Dry Density (Mg/m3)	1.88	1.90	1.91	1.89	1.88

Material Description
slightly sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

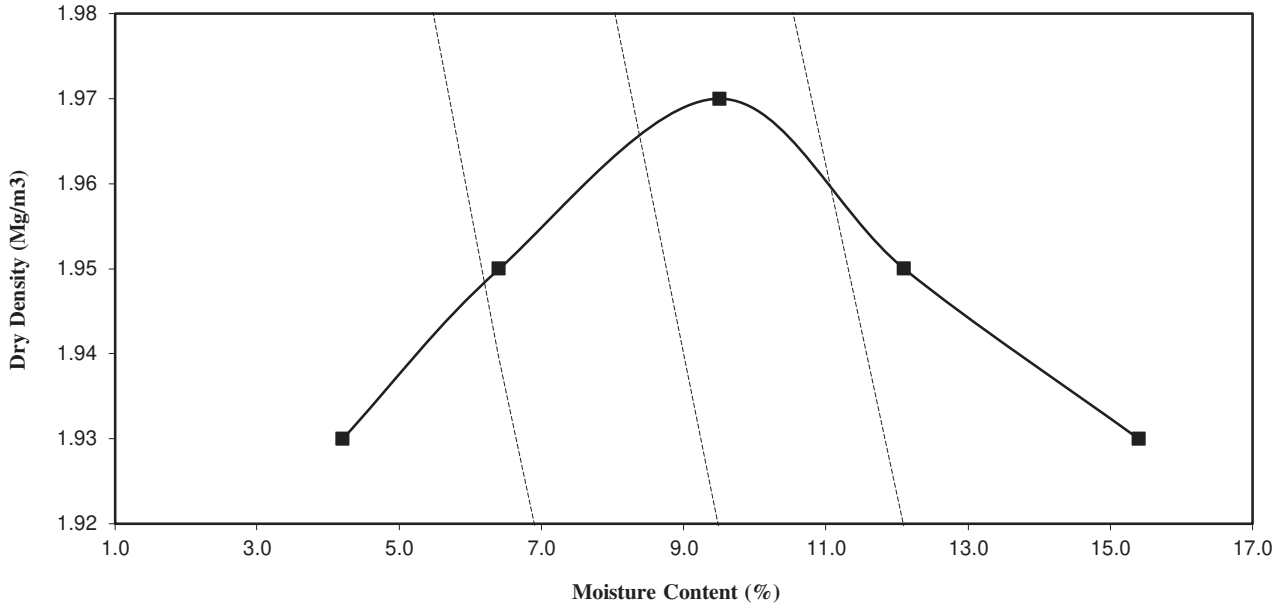
Hole Id:	TP07
Depth (mBGL):	1.00
Lab Ref:	23/549
Sample No	MK71

Particle Density
2.5
Assumed

Natural Moisture Content (%)	15.4
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.97
Optimum Moisture Content (%)	9.5

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.2	6.4	9.5	12.1	15.4
Dry Density (Mg/m3)	1.93	1.95	1.97	1.95	1.93

Material Description
slightly sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

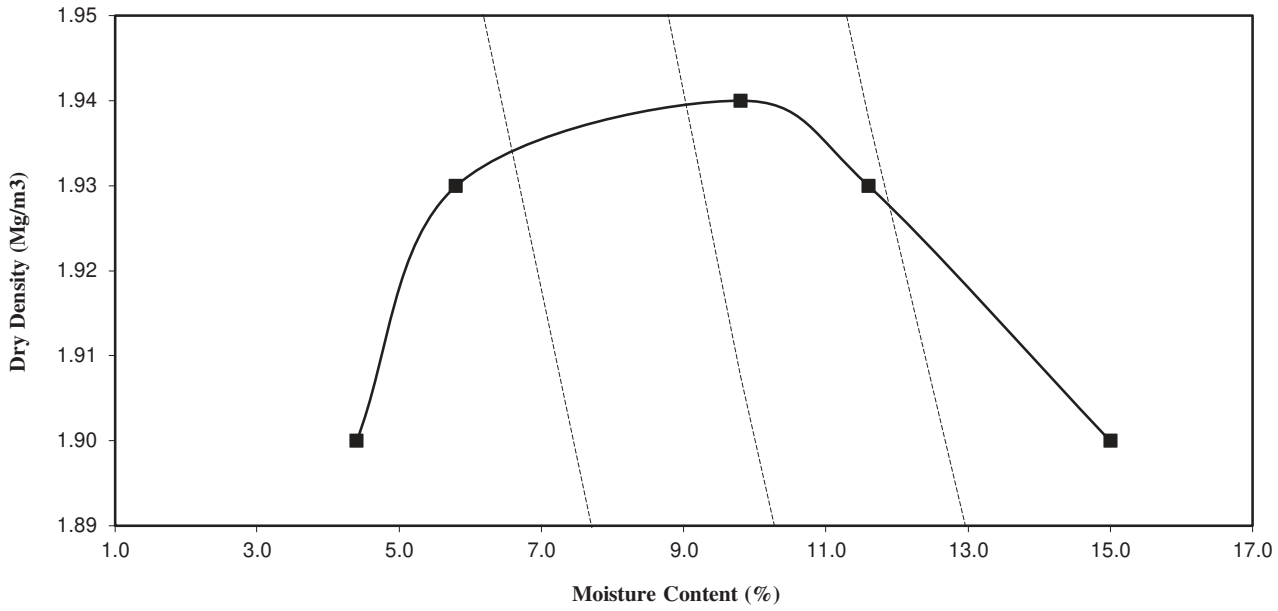
Hole Id:	TP08
Depth (mBGL):	1.00
Lab Ref:	23/550
Sample No	MK119

Particle Density
2.5
Assumed

Natural Moisture Content (%)	23.9
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.94
Optimum Moisture Content (%)	10.0

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.4	5.8	9.8	11.6	15.0
Dry Density (Mg/m3)	1.90	1.93	1.94	1.93	1.90

Material Description
sandy slightly gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

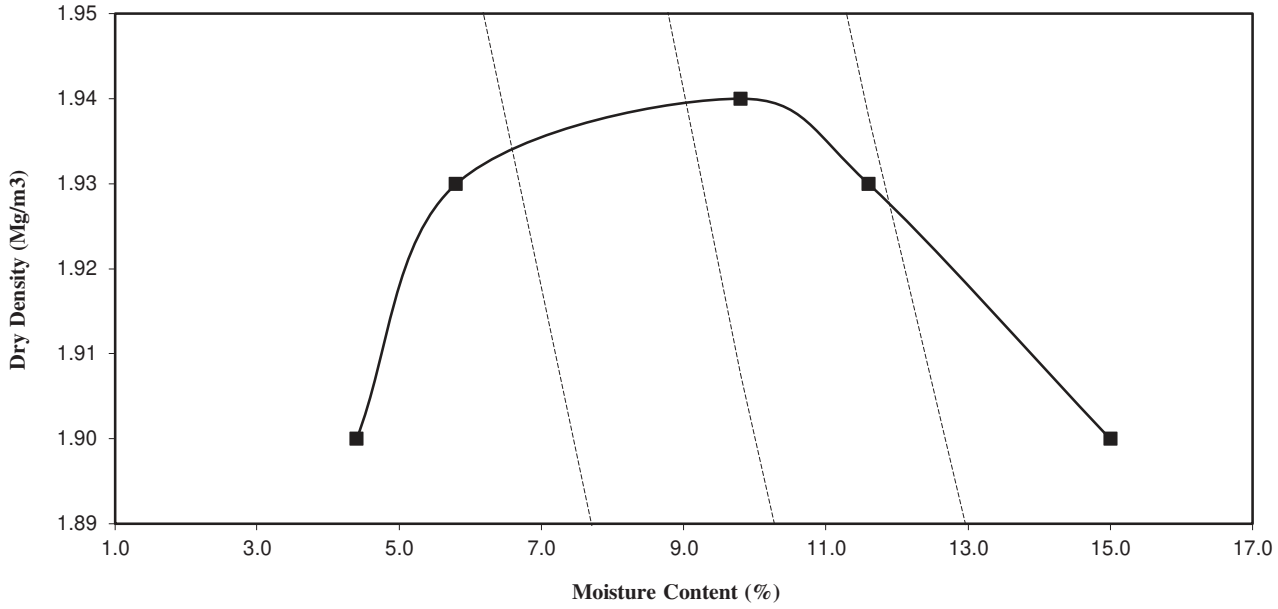
Hole Id:	TP17
Depth (mBGL):	1.00
Lab Ref:	23/551
Sample No	MK41

Particle Density
2.5
Assumed

Natural Moisture Content (%)	18
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.94
Optimum Moisture Content (%)	10.0

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.4	5.8	9.8	11.6	15.0
Dry Density (Mg/m3)	1.90	1.93	1.94	1.93	1.90

Material Description
sandy slightly gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

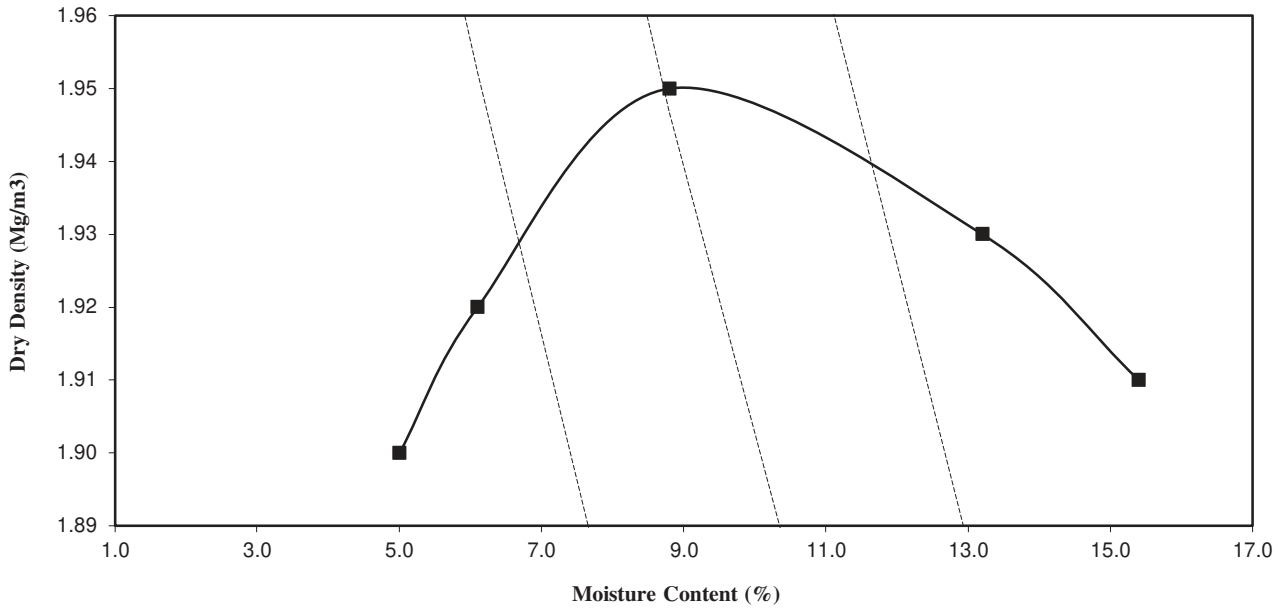
Hole Id:	TP21
Depth (mBGL):	1.00
Lab Ref:	23/552
Sample No	MK48

Particle Density
2.5
Assumed

Natural Moisture Content (%)	15.4
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.95
Optimum Moisture Content (%)	9.0

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	5.0	6.1	8.8	13.2	15.4
Dry Density (Mg/m3)	1.90	1.92	1.95	1.93	1.91

Material Description
sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

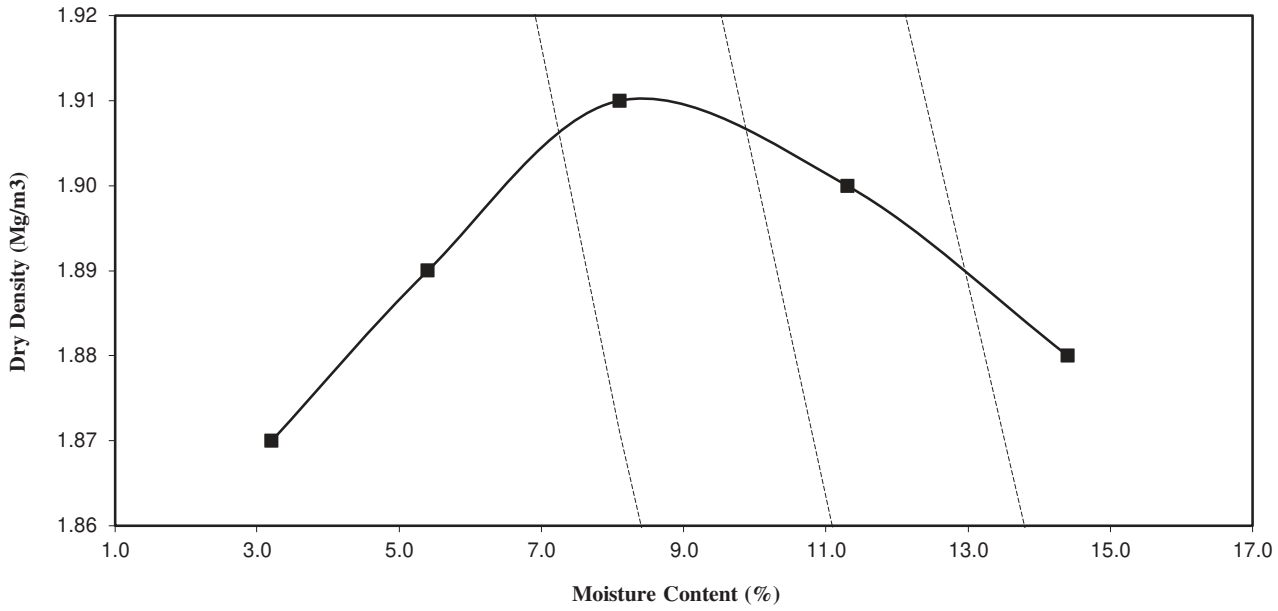
Hole Id:	TP29
Depth (mBGL):	2.00
Lab Ref:	23/554
Sample No	MK292

Particle Density
2.5
Assumed

Natural Moisture Content (%)	23.1
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.91
Optimum Moisture Content (%)	8.5

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.2	5.4	8.1	11.3	14.4
Dry Density (Mg/m3)	1.87	1.89	1.91	1.90	1.88

Material Description
slightly sandy silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

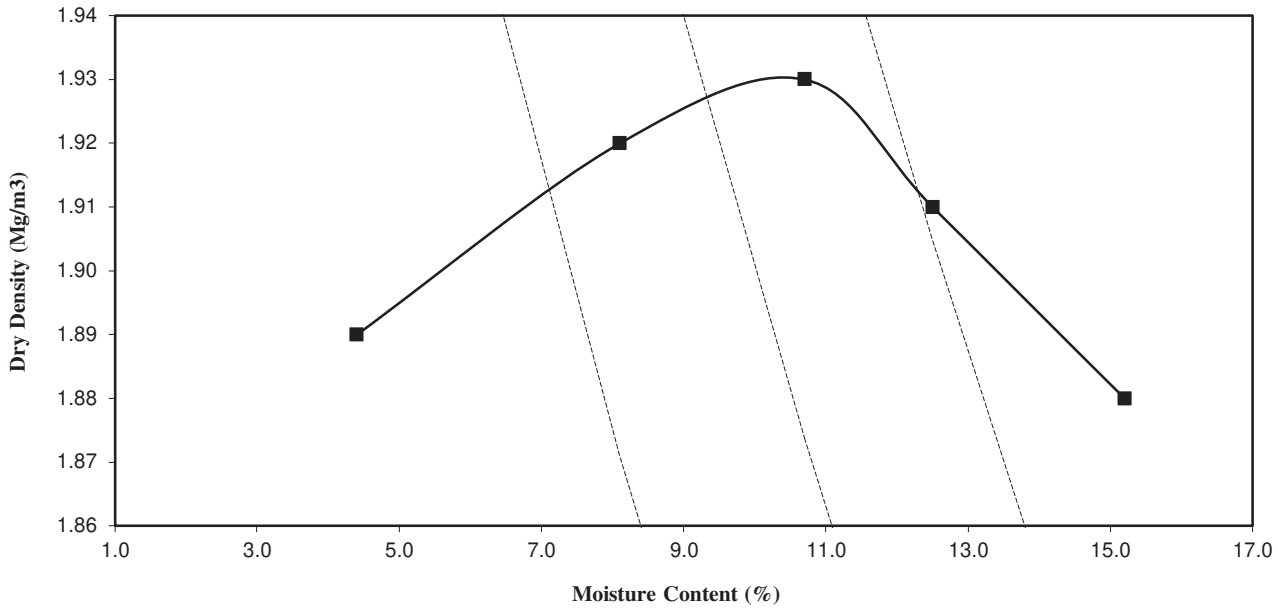
Hole Id:	TP32
Depth (mBGL):	1.00
Lab Ref:	23/555
Sample No	MK100

Particle Density
2.5
Assumed

Natural Moisture Content (%)	17.1
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.93
Optimum Moisture Content (%)	10.3

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.4	8.1	10.7	12.5	15.2
Dry Density (Mg/m3)	1.89	1.92	1.93	1.91	1.88

Material Description
slightly sandy silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

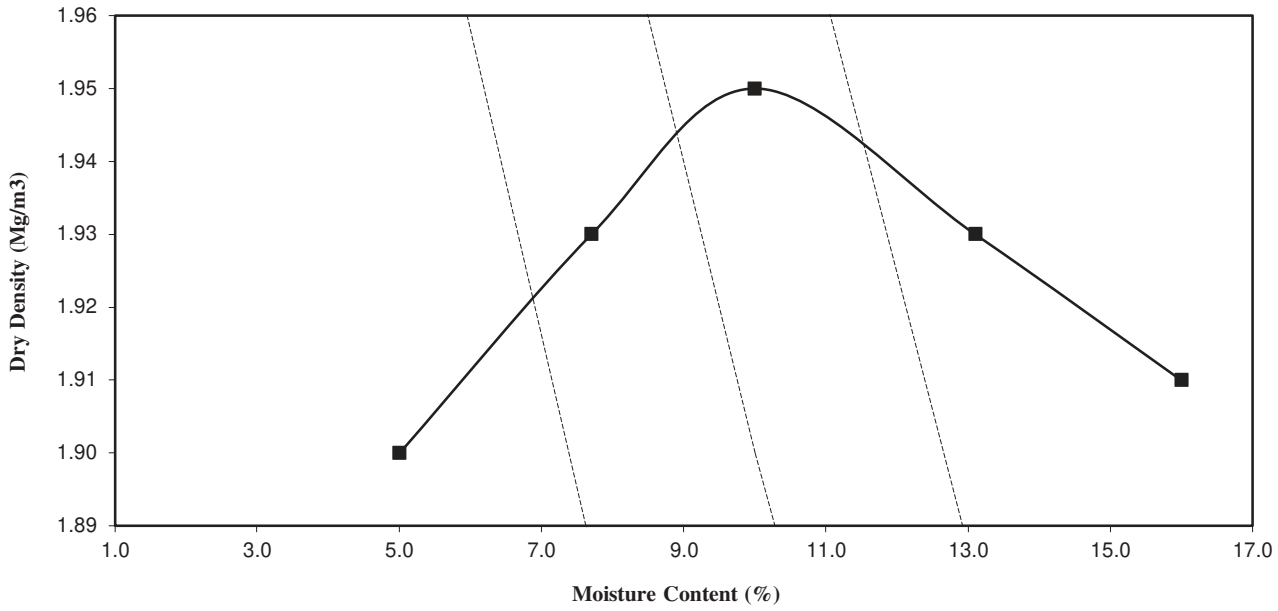
Hole Id:	TP37
Depth (mBGL):	0.50
Lab Ref:	23/556
Sample No	MK76

Particle Density
2.5
Assumed

Natural Moisture Content (%)	17.3
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.95
Optimum Moisture Content (%)	10.0

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	5.0	7.7	10.0	13.1	16.0
Dry Density (Mg/m3)	1.90	1.93	1.95	1.93	1.91

Material Description
slightly sandy silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

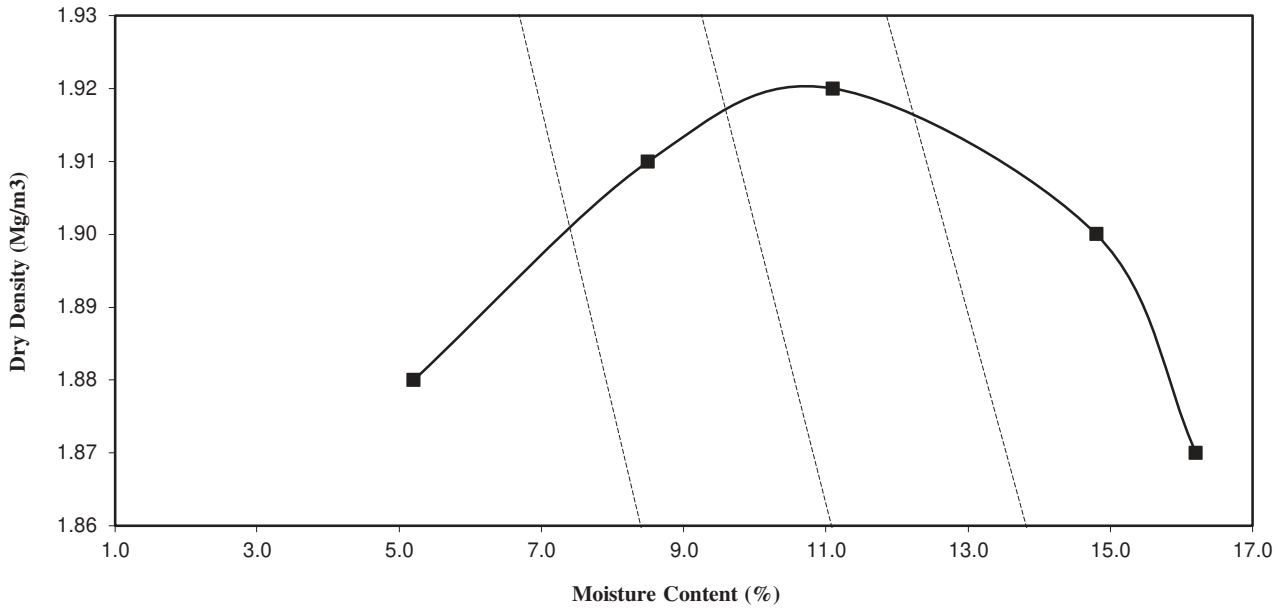
Hole Id:	TP38
Depth (mBGL):	1.00
Lab Ref:	23/557
Sample No	MK83

Particle Density
2.5
Assumed

Natural Moisture Content (%)	20.8
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.92
Optimum Moisture Content (%)	10.8

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	5.2	8.5	11.1	14.8	16.2
Dry Density (Mg/m3)	1.88	1.91	1.92	1.90	1.87

Material Description
sandy slightly gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

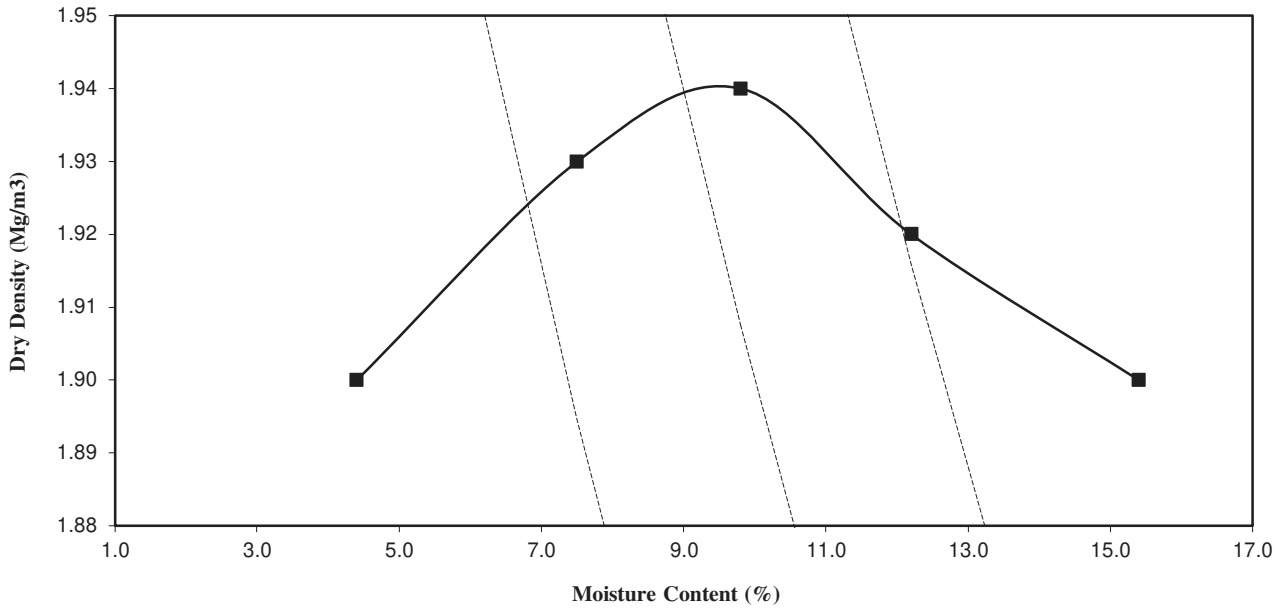
Hole Id:	TP53
Depth (mBGL):	1.00
Lab Ref:	23/561
Sample No	MK324

Particle Density
2.5
Assumed

Natural Moisture Content (%)	22.1
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.94
Optimum Moisture Content (%)	9.4

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.4	7.5	9.8	12.2	15.4
Dry Density (Mg/m3)	1.90	1.93	1.94	1.92	1.90

Material Description
sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

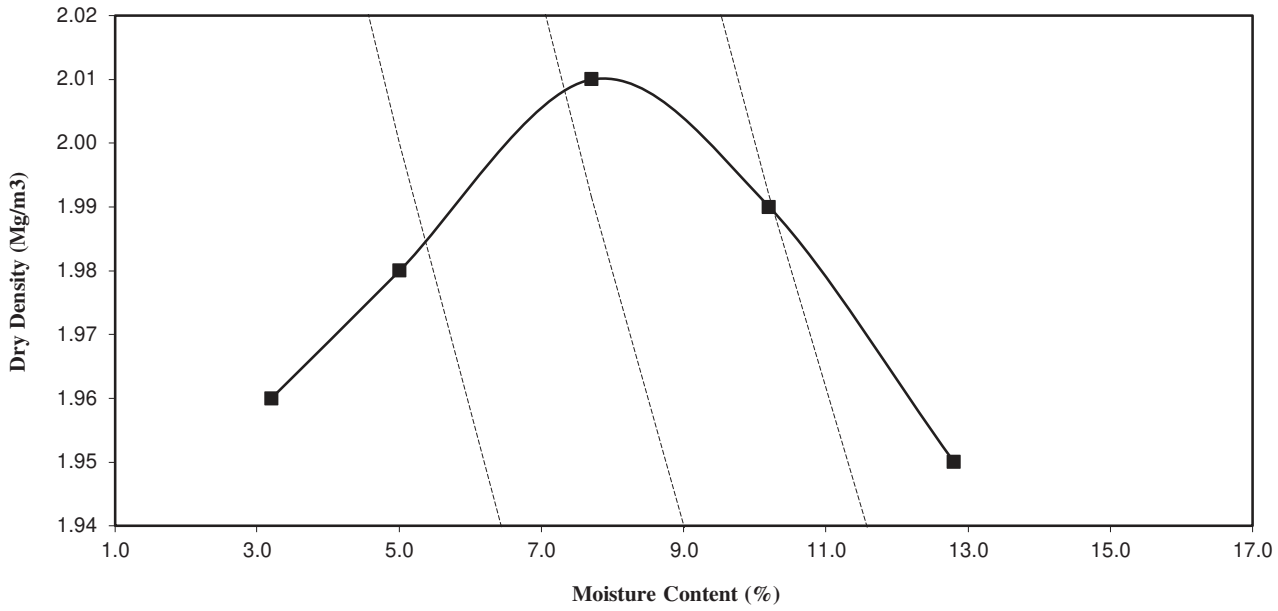
Hole Id:	TP57
Depth (mBGL):	0.50
Lab Ref:	23/563
Sample No	MK424

Particle Density
2.5
Assumed

Natural Moisture Content (%)	5.0
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	2.01
Optimum Moisture Content (%)	7.9

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.2	5.0	7.7	10.2	12.8
Dry Density (Mg/m3)	1.96	1.98	2.01	1.99	1.95

Material Description
silty very sandy GRAVEL



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

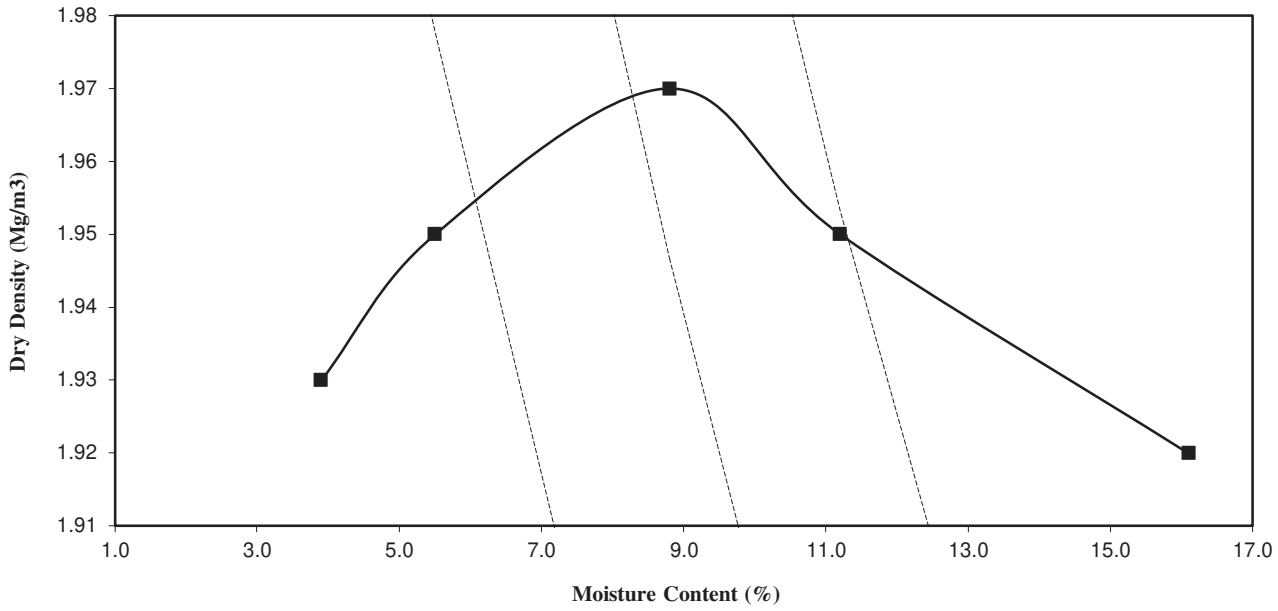
Hole Id:	TP63
Depth (mBGL):	1.50
Lab Ref:	23/564
Sample No	MK437

Particle Density
2.5
Assumed

Natural Moisture Content (%)	25.2
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	2.01
Optimum Moisture Content (%)	8.9

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.9	5.5	8.8	11.2	16.1
Dry Density (Mg/m3)	1.93	1.95	1.97	1.95	1.92

Material Description
slightly sandy silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	5th July 2023

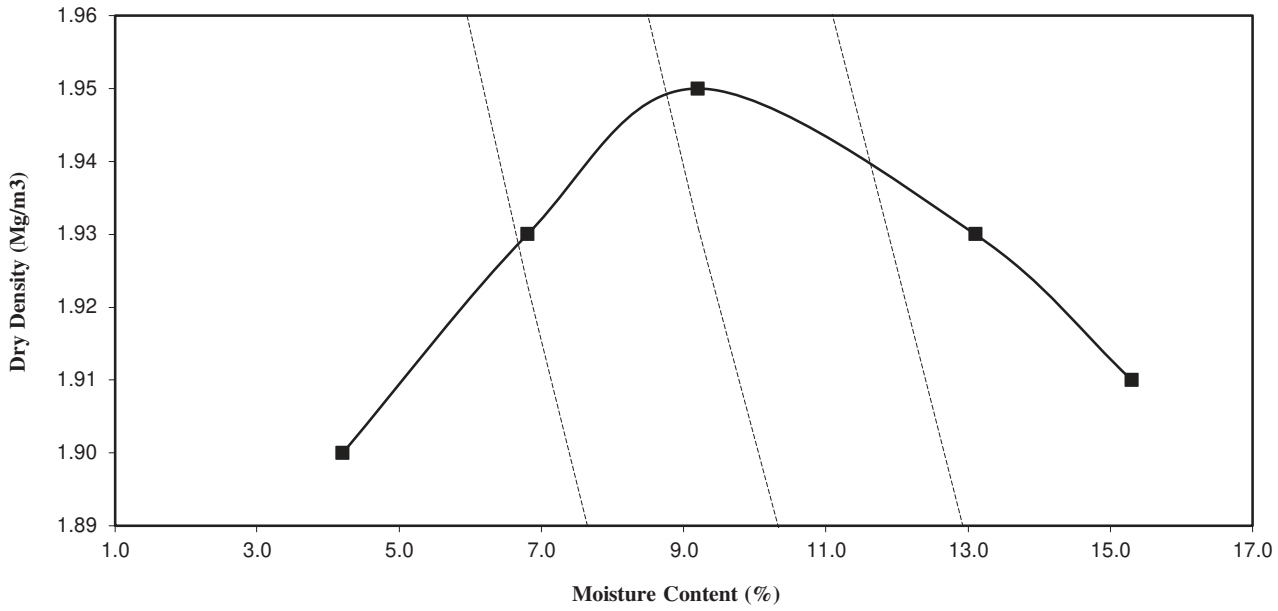
Hole Id:	TP68
Depth (mBGL):	0.50
Lab Ref:	23/566
Sample No	MK309

Particle Density
2.5
Assumed

Natural Moisture Content (%)	13.1
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.95
Optimum Moisture Content (%)	9.2

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.2	6.8	9.2	13.1	15.3
Dry Density (Mg/m3)	1.90	1.93	1.95	1.93	1.91

Material Description
slightly sandy slightly gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

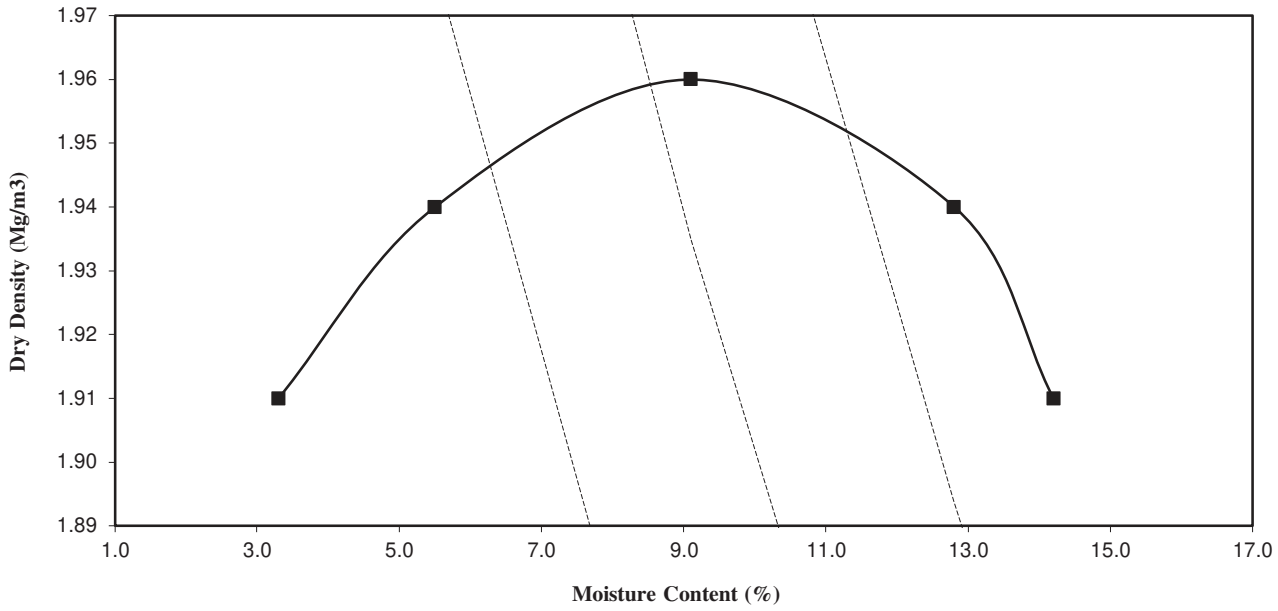
Hole Id:	TP77
Depth (mBGL):	0.50
Lab Ref:	23/567
Sample No	MK363

Particle Density
2.5
Assumed

Natural Moisture Content (%)	14.2
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.96
Optimum Moisture Content (%)	9.1

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.3	5.5	9.1	12.8	14.2
Dry Density (Mg/m3)	1.91	1.94	1.96	1.94	1.91

Material Description
slightly sandy slightly gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

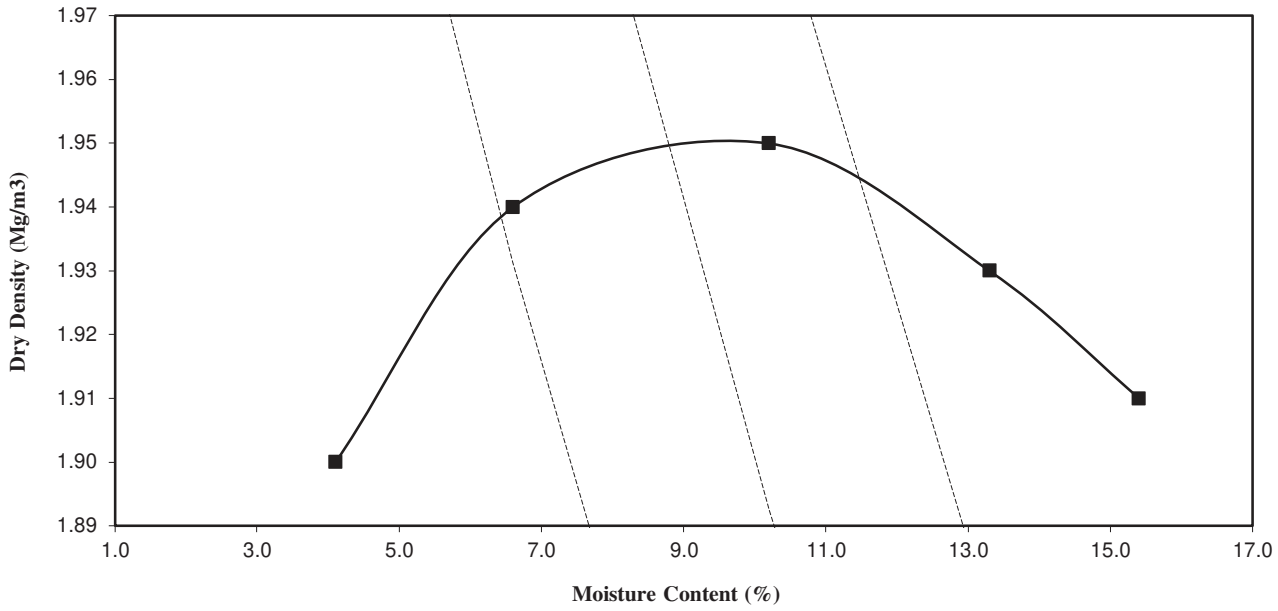
Hole Id:	TP85
Depth (mBGL):	2.00
Lab Ref:	23/569
Sample No	MK280

Particle Density
2.5
Assumed

Natural Moisture Content (%)	19.0
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.95
Optimum Moisture Content (%)	9.5

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.1	6.6	10.2	13.3	15.4
Dry Density (Mg/m3)	1.90	1.94	1.95	1.93	1.91

Material Description
sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

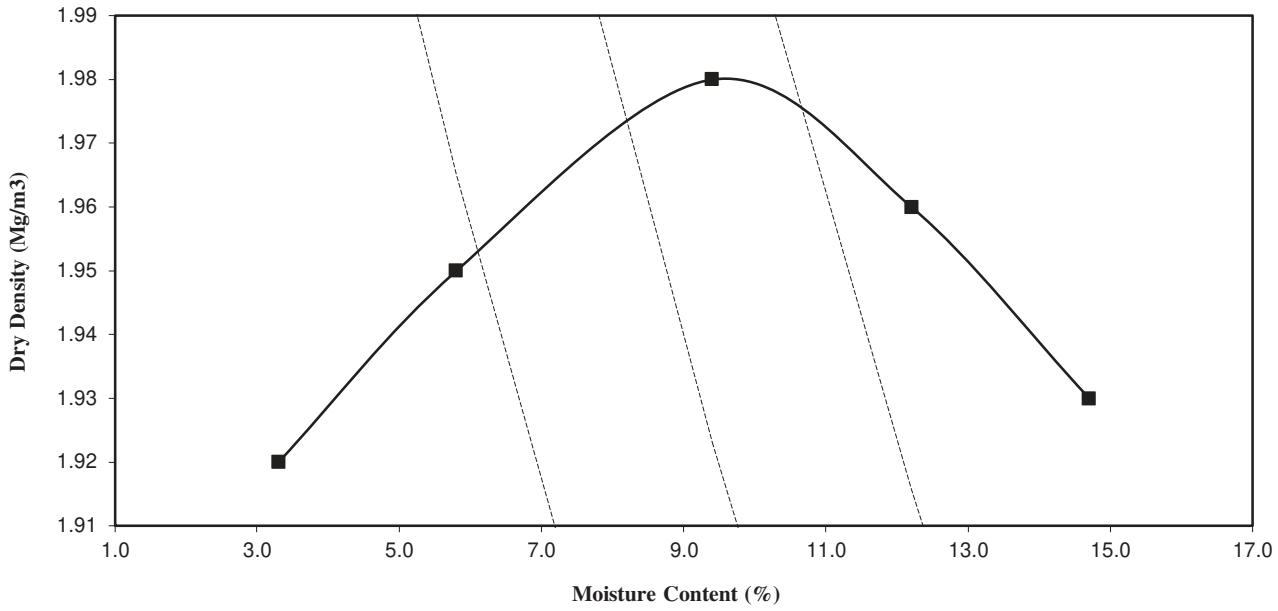
Hole Id:	TP88
Depth (mBGL):	1.50
Lab Ref:	23/570
Sample No	MK175

Particle Density
2.5
Assumed

Natural Moisture Content (%)	27.5
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.98
Optimum Moisture Content (%)	9.6

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.3	5.8	9.4	12.2	14.7
Dry Density (Mg/m3)	1.92	1.95	1.98	1.96	1.93

Material Description
slightly sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

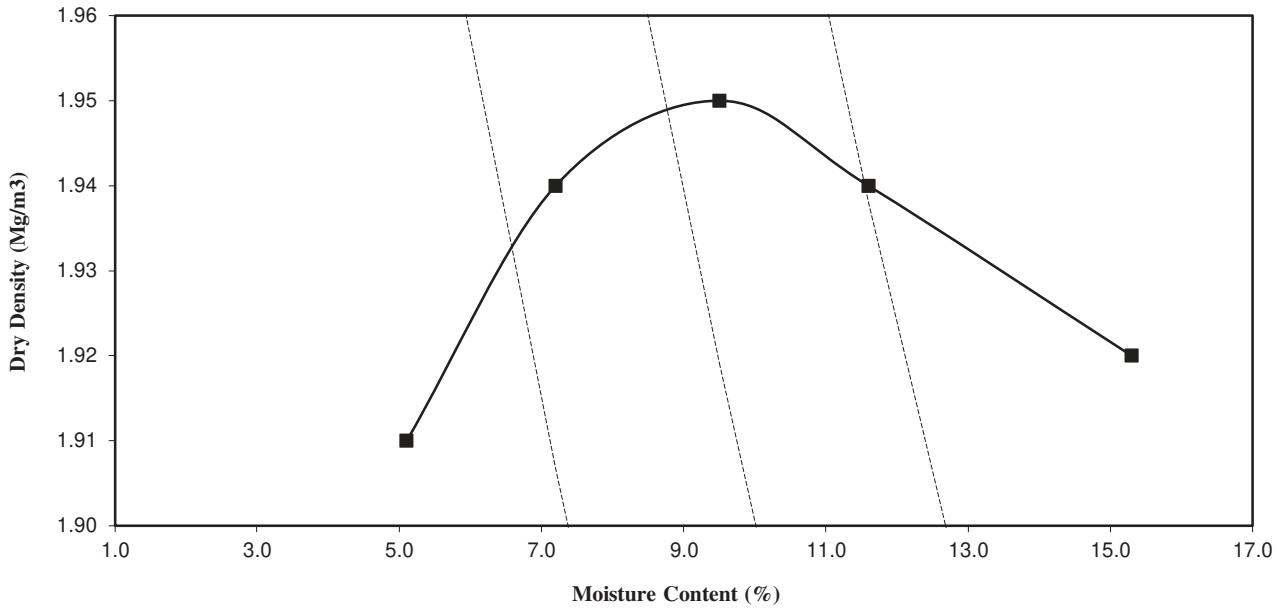
Hole Id:	TP94
Depth (mBGL):	1.50
Lab Ref:	23/572
Sample No	MK165

Particle Density
2.5
Assumed

Natural Moisture Content (%)	15.3
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.95
Optimum Moisture Content (%)	9.2

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	5.1	7.2	9.5	11.6	15.3
Dry Density (Mg/m3)	1.91	1.94	1.95	1.94	1.92

Material Description
slightly sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

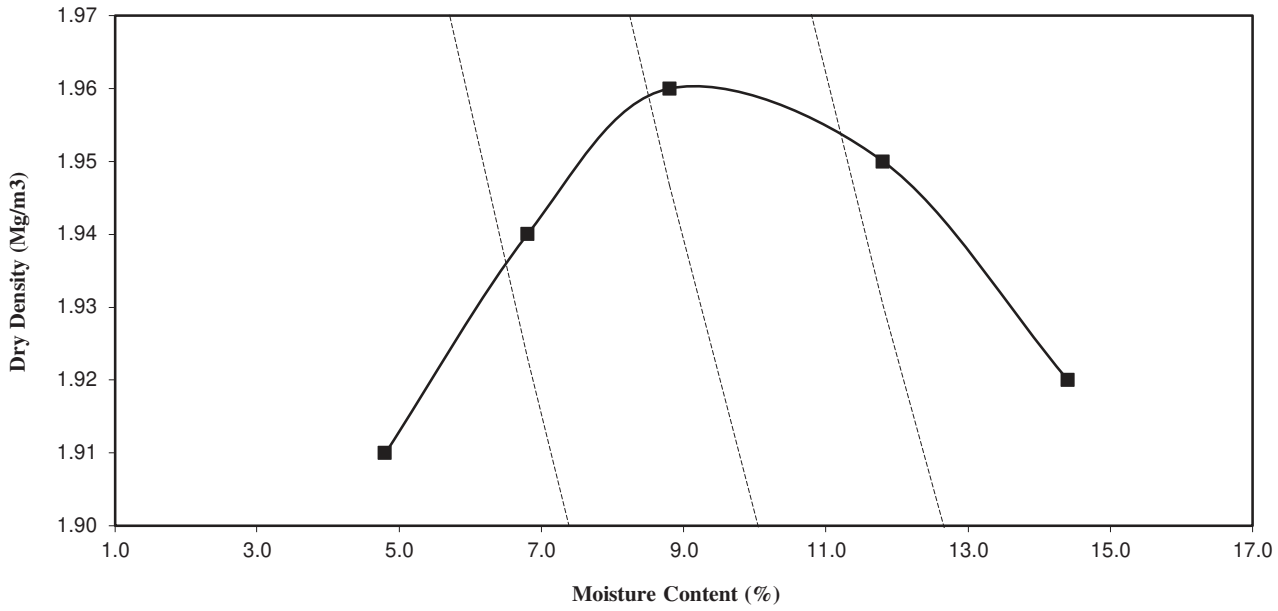
Hole Id:	TP112
Depth (mBGL):	1.00
Lab Ref:	23/576
Sample No	MK27

Particle Density
2.5
Assumed

Natural Moisture Content (%)	14.4
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.96
Optimum Moisture Content (%)	9.1

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.8	6.8	8.8	11.8	14.4
Dry Density (Mg/m3)	1.91	1.94	1.96	1.95	1.92

Material Description
slightly sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

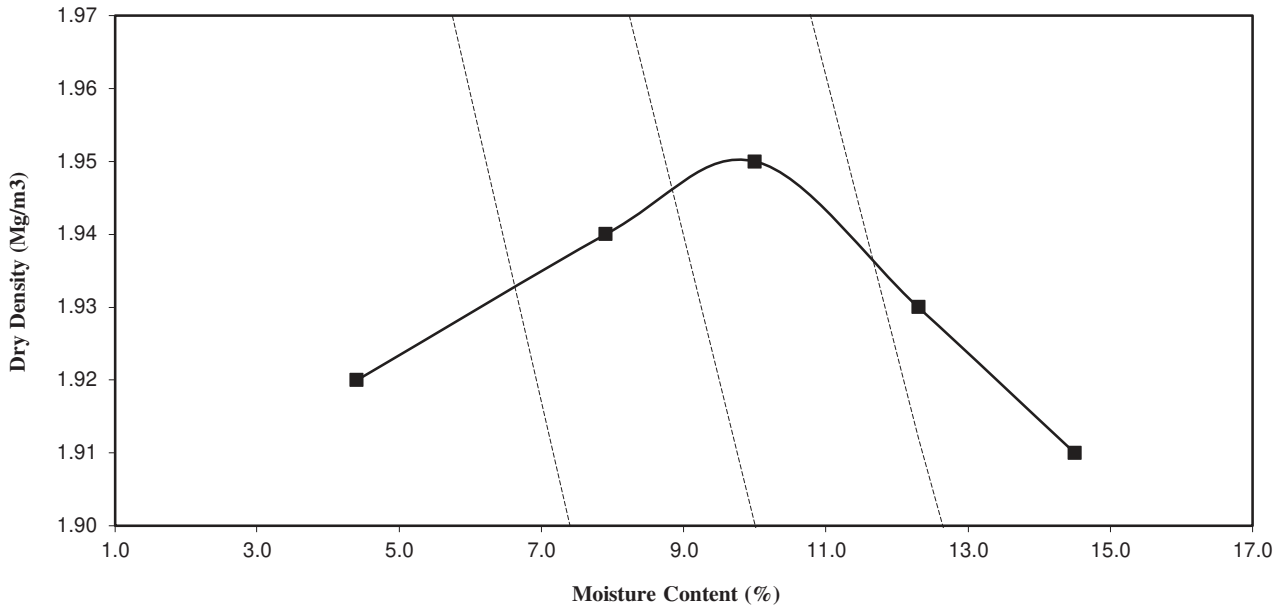
Hole Id:	TP116
Depth (mBGL):	0.50
Lab Ref:	23/578
Sample No	MK20

Particle Density
2.5
Assumed

Natural Moisture Content (%)	7.9
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.95
Optimum Moisture Content (%)	9.8

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	4.4	7.9	10.0	12.3	14.5
Dry Density (Mg/m3)	1.92	1.94	1.95	1.93	1.91

Material Description
sandy gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

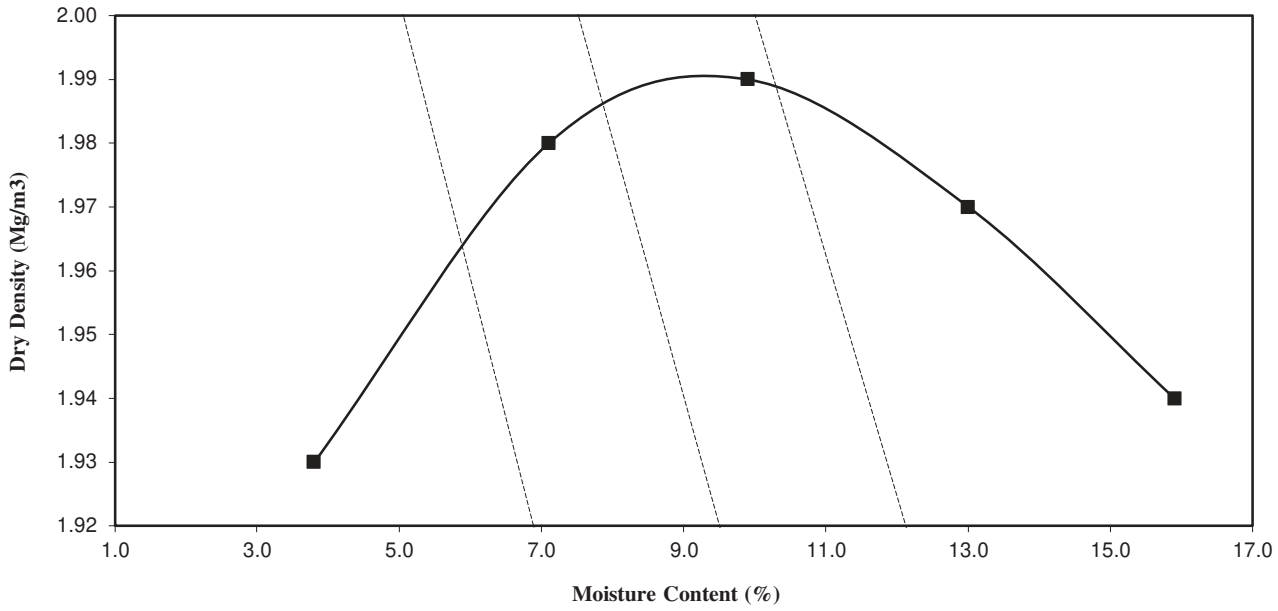
Hole Id:	TP130
Depth (mBGL):	1.50
Lab Ref:	23/579
Sample No	MK152

Particle Density
2.5
Assumed

Natural Moisture Content (%)	15.9
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.99
Optimum Moisture Content (%)	9.1

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.8	7.1	9.9	13.0	15.9
Dry Density (Mg/m3)	1.93	1.98	1.99	1.97	1.94

Material Description
slightly sandy slightly gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

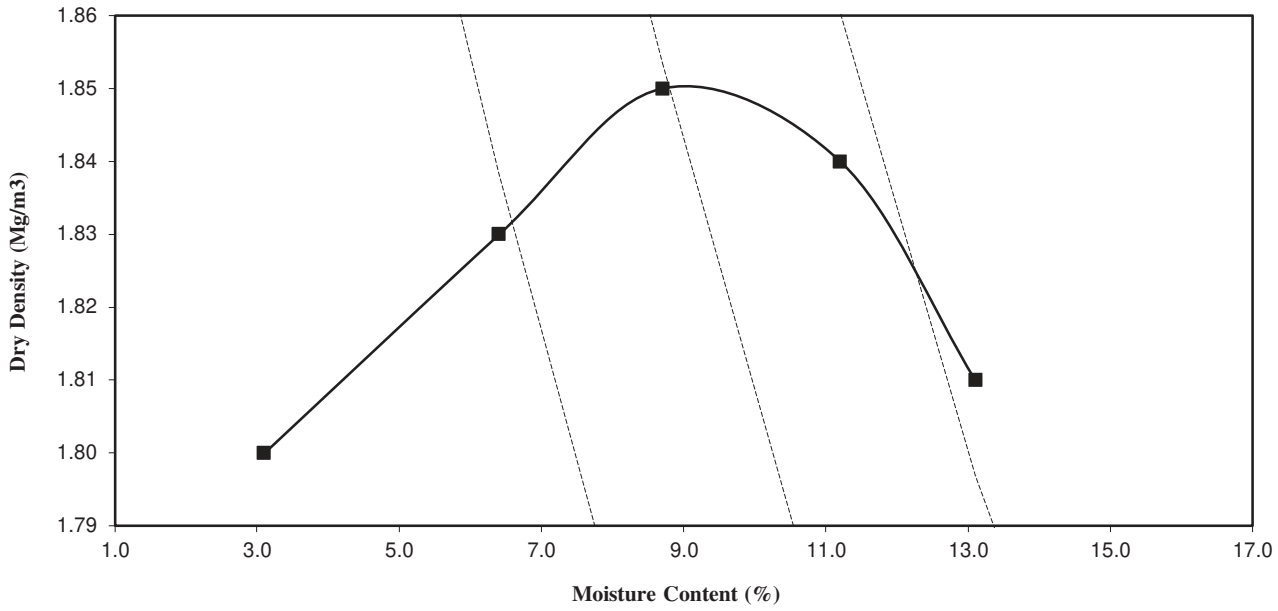
Hole Id:	TP142
Depth (mBGL):	1.50
Lab Ref:	23/581
Sample No	MK271

Particle Density
2.35
Assumed

Natural Moisture Content (%)	22.6
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.85
Optimum Moisture Content (%)	9.0

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.1	6.4	8.7	11.2	13.1
Dry Density (Mg/m3)	1.80	1.83	1.85	1.84	1.81

Material Description
slightly sandy gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

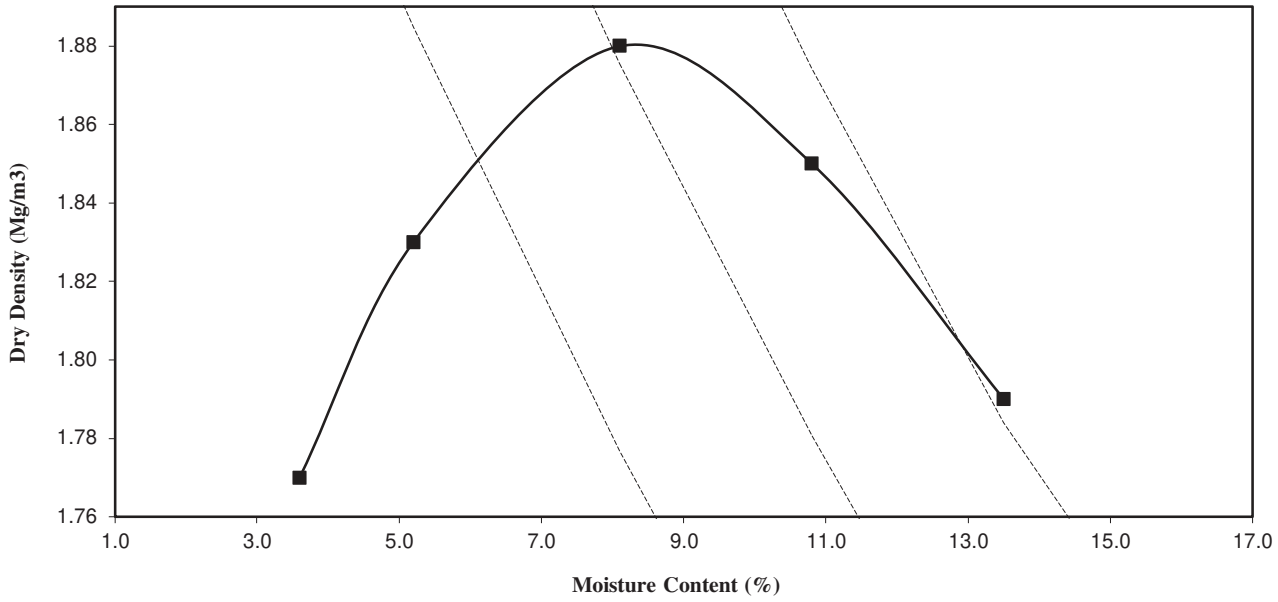
Hole Id:	TP144
Depth (mBGL):	1.00
Lab Ref:	23/582
Sample No	MK232

Particle Density
2.35
Assumed

Natural Moisture Content (%)	18.3
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.88
Optimum Moisture Content (%)	8.6

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.6	5.2	8.1	10.8	13.5
Dry Density (Mg/m3)	1.77	1.83	1.88	1.85	1.79

Material Description
slightly sandy gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

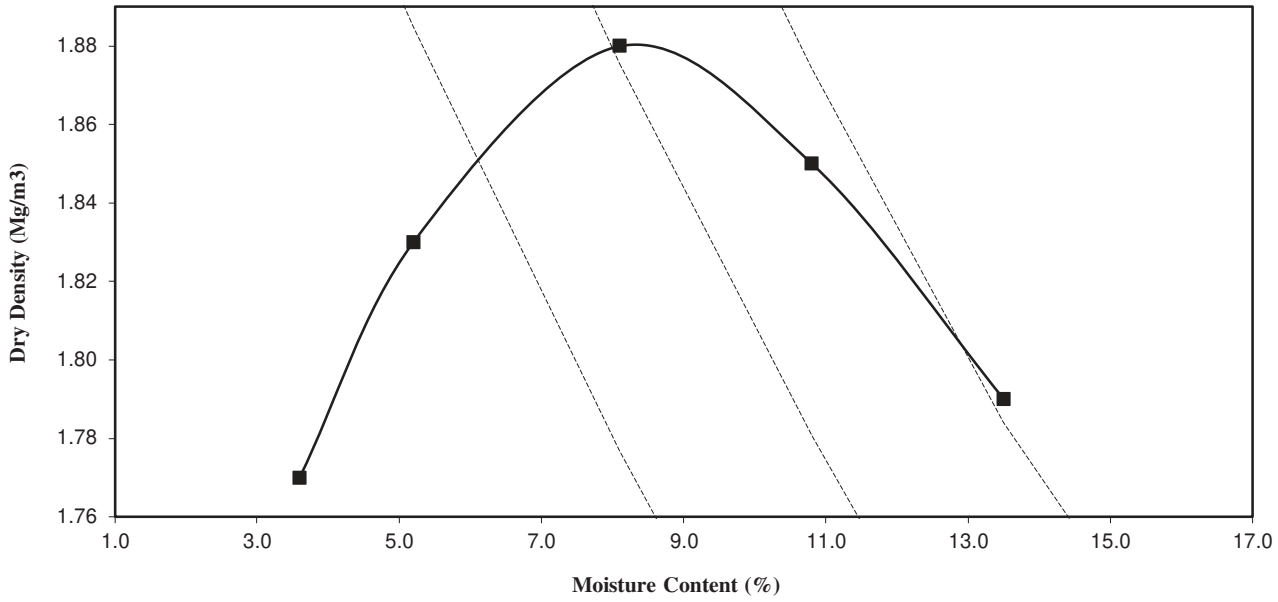
Hole Id:	TP145
Depth (mBGL):	1.50
Lab Ref:	23/583
Sample No	MK238

Particle Density
2.35
Assumed

Natural Moisture Content (%)	18.3
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.88
Optimum Moisture Content (%)	8.6

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.6	5.2	8.1	10.8	13.5
Dry Density (Mg/m3)	1.77	1.83	1.88	1.85	1.79

Material Description
slightly sandy gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

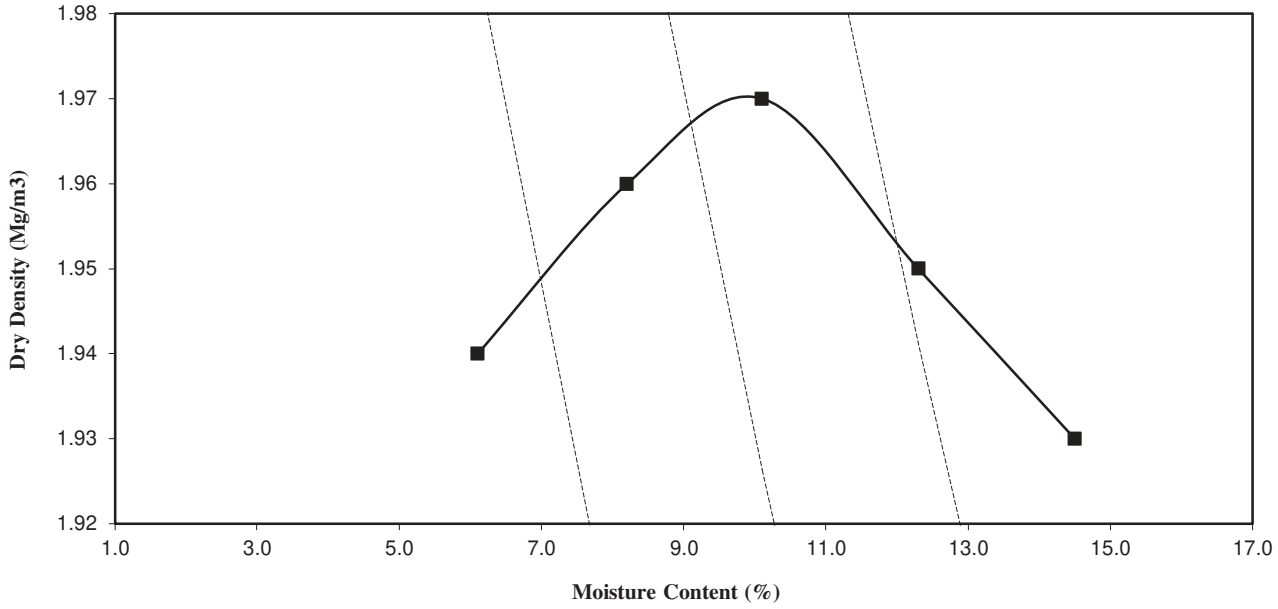
Hole Id:	TP151
Depth (mBGL):	1.00
Lab Ref:	23/585
Sample No	MK223

Particle Density
2.55
Assumed

Natural Moisture Content (%)	20.6
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.97
Optimum Moisture Content (%)	9.9

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	6.1	8.2	10.1	12.3	14.5
Dry Density (Mg/m3)	1.94	1.96	1.97	1.95	1.93

Material Description
slightly sandy gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

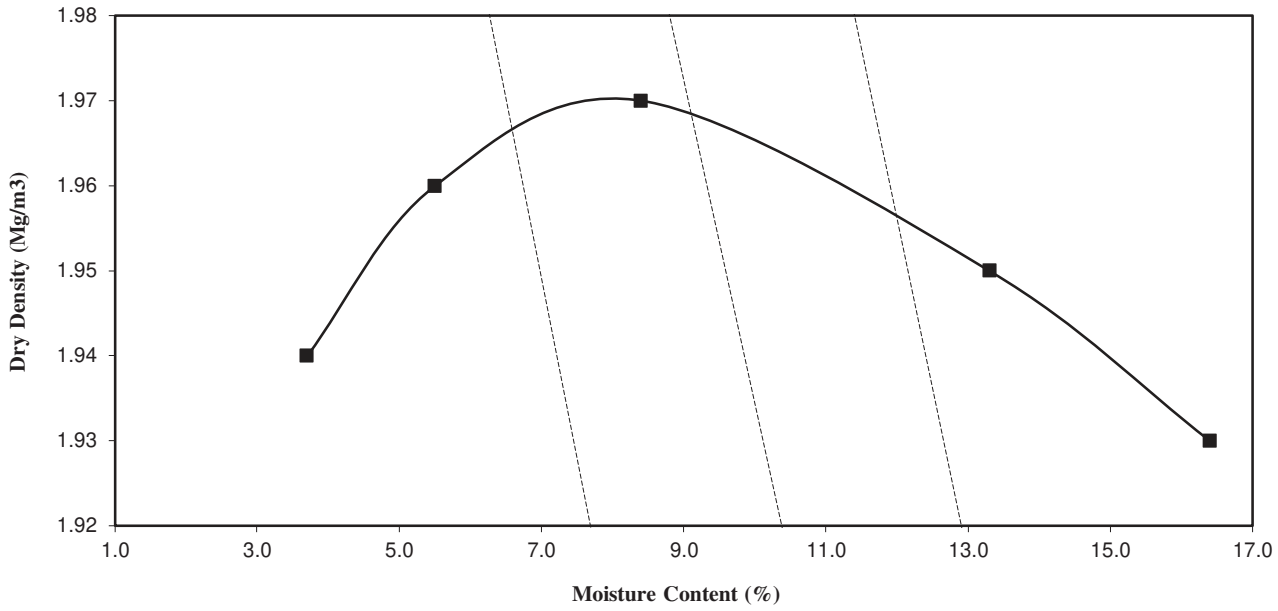
Hole Id:	TP159
Depth (mBGL):	0.50
Lab Ref:	23/587
Sample No	MK262

Particle Density
2.55
Assumed

Natural Moisture Content (%)	13.3
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.97
Optimum Moisture Content (%)	8.0

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	3.7	5.5	8.4	13.3	16.4
Dry Density (Mg/m3)	1.94	1.96	1.97	1.95	1.93

Material Description
slightly sandy gravelly silty CLAY



Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

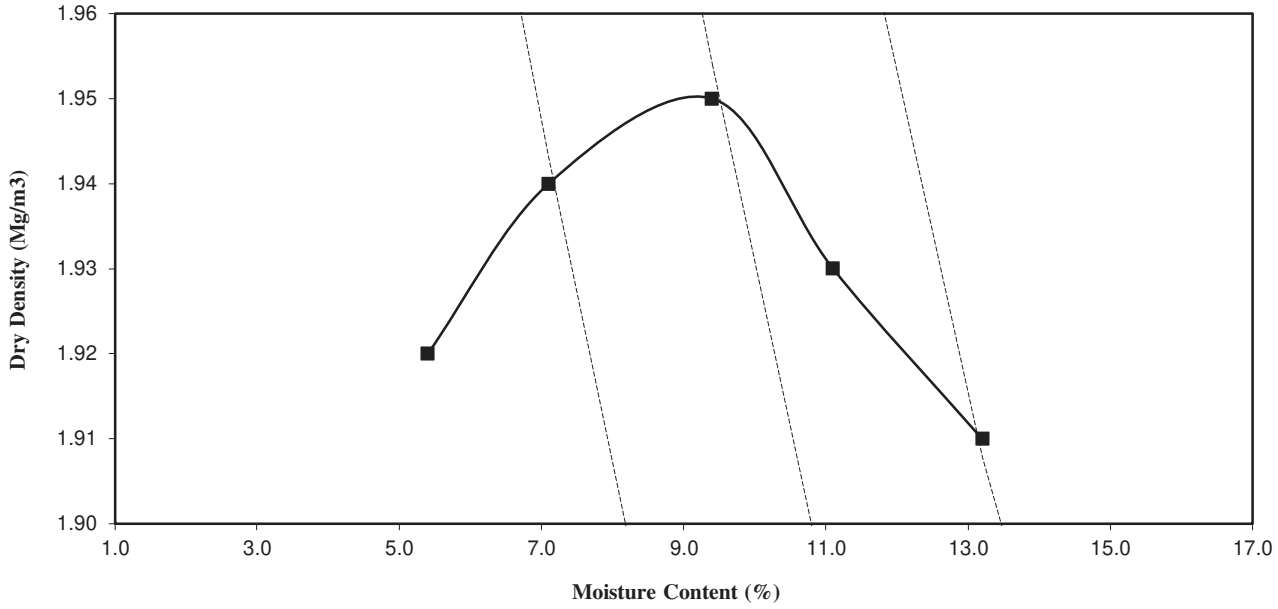
Hole Id:	TP167
Depth (mBGL):	0.50
Lab Ref:	23/588
Sample No	MK353

Particle Density
2.55
Assumed

Natural Moisture Content (%)	18.2
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.95
Optimum Moisture Content (%)	9.1

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	5.4	7.1	9.4	11.1	13.2
Dry Density (Mg/m3)	1.92	1.94	1.95	1.93	1.91

Material Description
slightly sandy gravelly silty CLAY



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Dry Density / Moiture Content relationship in accordance with BS 1377 : Part 4

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I.File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar, The Grange, 12th Lock Rd., Lucan, Co. Dublin Tel 01 6108768
Report Date	6th July 2023

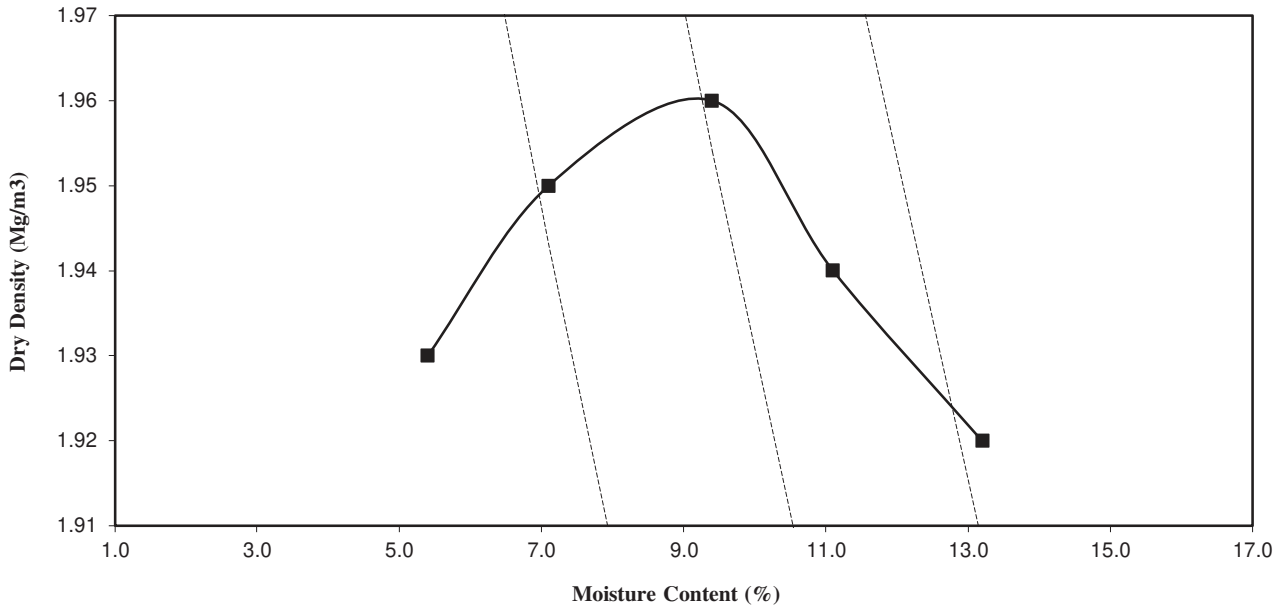
Hole Id:	TP173
Depth (mBGL):	1.50
Lab Ref:	23/590
Sample No	MK297

Particle Density
2.55
Assumed

Natural Moisture Content (%)	19.2
Rammer Used	2.5Kg
Maximum Dry Density (Mg/m^3)	1.96
Optimum Moisture Content (%)	9.2

Point Number	**1**	**2**	**3**	**4**	**5**
Moisture content	5.4	7.1	9.4	11.1	13.2
Dry Density (Mg/m3)	1.93	1.95	1.96	1.94	1.92

Material Description
slightly sandy slightly gravelly silty CLAY



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Site Investigations Ltd

Chemical Testing
In accordance with BS 1377: Part 3

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I. File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email:info@siteinvestigations.ie
Report Date	5th July 2023

Hole Id	Depth (mBGL)	Sample No	Lab Ref	pH Value	Water Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) g/L	Water Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) %	Acid Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) g/L	Acid Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) %	Chloride ion Content (water:soil ratio 2:1) %	% passing 2mm
BH01	1.00	DC01	23/600	7.97	0.117	0.057			0.19	48.9
BH01	2.00	DC02	23/601	8.20	0.116	0.025			0.15	21.9
BH01	8.00	DC08	23/602	8.14	0.131	0.122			0.18	92.9
BH02	1.00	DC75	23/603	8.25	0.124	0.095			0.16	20.6
BH02	6.00	DC80	23/604	8.19	0.115	0.032			0.17	28.0
BH03	1.00	DC23	23/605	8.11	0.119	0.052			0.15	43.7
BH03	2.00	DC24	23/606	8.00	0.115	0.026			0.16	22.9
BH03	4.00	DC26	23/607	8.16	0.124	0.078			0.18	62.5
BH04	1.00	DC12	23/608	8.26	0.119	0.057			0.17	47.6
BH04	2.00	DC13	23/609	7.62	0.116	0.025			0.19	21.7
BH04	4.00	DC15	23/610	8.18	0.131	0.115			0.18	87.5
BH05	1.00	DC33	23/611	8.10	0.117	0.078			0.17	66.5
BH05	2.00	DC34	23/612	8.24	0.112	0.026			0.13	23.7
RC01	1.00	DC44	23/613	8.07	0.120	0.059			0.17	48.9
RC01	2.00	DC45	23/614	8.09	0.126	0.057			0.16	45.3
RC01	8.00	DC51	23/615	8.11	0.129	0.121			0.22	93.8
RC02	1.00	DC55	23/616	7.98	0.116	0.055			0.15	47.1
RC02	5.00	DC59	23/617	8.13	0.124	0.089			0.14	71.8
RC03	1.00	DC65	23/618	8.05	0.117	0.054			0.16	45.9
RC03	2.00	DC66	23/619	8.15	0.130	0.119			0.19	91.3
TP01	1.50	MK74	23/546	7.84	0.130	0.130			0.16	100.0
TP03	2.00	MK67	23/547	7.93	0.127	0.125			0.18	98.5
TP05	0.50	MK58	23/548	8.05	0.123	0.084			0.16	68.6
TP07	1.00	MK71	23/549	7.68	0.126	0.106			0.17	83.9
TP08	1.00	MK119	23/550	7.76	0.122	0.083			0.17	68.3

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Chemical Testing
In accordance with BS 1377: Part 3

Client	Cairn Homes Ltd.
Site	Blessington - Phase 3
S.I. File No	6100 / 23
Test Lab	Site Investigations Ltd., Carhugar The Grange, 12th Lock Rd., Lucan Co. Dublin. Tel (01) 6108768 Email:info@siteinvestigations.ie
Report Date	5th July 2023

Hole Id	Depth (mBGL)	Sample No	Lab Ref	pH Value	Water Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) g/L	Water Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) %	Acid Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) g/L	Acid Soluble Sulphate Content (2:1 Water-soil extract) (SO_3) %	Chloride ion Content (water:soil ratio 2:1) %	% passing 2mm
TP17	1.00	MK41	23/551	7.95	0.120	0.080			0.12	66.3
TP21	1.00	MK48	23/552	7.88	0.117	0.038			0.16	32.2
TP29	2.00	MK292	23/554	7.59	0.124	0.124			0.19	100.0
TP32	1.00	MK100	23/555	8.07	0.118	0.042			0.21	35.4
TP37	0.50	MK76	23/556	8.02	0.123	0.093			0.23	75.8
TP38	1.00	MK83	23/557	7.75	0.124	0.091			0.21	73.1
TP41	1.00	MK85	23/558	8.04	0.126	0.080			0.21	63.3
TP53	1.00	MK324	23/561	7.75	0.126	0.104			0.22	82.6
TP57	0.50	MK424	23/563	8.12	0.115	0.029			0.12	25.4
TP63	1.50	MK437	23/564	7.79	0.131	0.131			0.24	100.0
TP68	0.50	MK309	23/566	8.09	0.114	0.033			0.15	29.2
TP77	0.50	MK363	23/567	7.93	0.123	0.095			0.24	77.1
TP85	2.00	MK280	23/569	7.90	0.119	0.112			0.17	94.5
TP88	1.50	MK175	23/570	7.94	0.122	0.114			0.18	94.1
TP94	1.50	MK165	23/572	7.80	0.124	0.096			0.17	77.2
TP112	1.00	MK27	23/576	7.80	0.124	0.107			0.16	85.7
TP116	0.50	MK20	23/578	8.07	0.115	0.032			0.16	28.2
TP130	1.50	MK152	23/579	7.84	0.131	0.116			0.22	88.5
TP142	1.50	MK271	23/581	8.06	0.122	0.085			0.18	62.3
TP144	1.00	MK232	23/582	7.95	0.126	0.095			1.90	61.6
TP145	1.50	MK238	23/583	7.93	0.127	0.105			0.21	82.3
TP151	1.00	MK223	23/585	7.80	0.124	0.102			0.16	85.7
TP159	0.50	MK262	23/587	7.68	0.127	0.105			0.11	82.3
TP167	0.50	MK353	23/588	7.77	0.129	0.113			0.18	87.9
TP173	1.50	MK297	23/590	8.01	0.129	0.112			0.17	87.1

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Appendix 9

Specialist Geotechnical Laboratory Test Results

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Appendix 9.1.
Natural Condition Results

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Appendix 9.2.
1% Lime Results

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Appendix 10
Environmental Laboratory Test Results

DRAFT

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Site Investigations Ltd
The Grange
Carhugar
12th Lock Road
Lucan
Co. Dublin

Attention: Stephen Letch

CERTIFICATE OF ANALYSIS

Date of report Generation:	01 June 2023
Customer:	Site Investigations Ltd
Sample Delivery Group (SDG):	230511-79
Your Reference:	6100
Location:	Blessington
Report No:	690936
Order Number:	22/A/23

We received 40 samples on Thursday May 11, 2023 and 40 of these samples were scheduled for analysis which was completed on Tuesday May 30, 2023. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan
Operations Manager

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
27976045	TP3		0.50 - 0.50	09/05/2023
27976046	TP4		0.50 - 0.50	09/05/2023
27976047	TP5		0.50 - 0.50	09/05/2023
27976048	TP7		0.50 - 0.50	09/05/2023
27976000	TP31		0.50 - 0.50	09/05/2023
27976001	TP34		0.50 - 0.50	09/05/2023
27976002	TP37		0.50 - 0.50	09/05/2023
27976003	TP38		0.50 - 0.50	09/05/2023
27976004	TP39		0.50 - 0.50	09/05/2023
27976005	TP42		0.50 - 0.50	09/05/2023
27976006	TP44		0.50 - 0.50	09/05/2023
27976007	TP45		0.50 - 0.50	09/05/2023
27976008	TP46		0.50 - 0.50	09/05/2023
27976036	TP60		0.50 - 0.50	09/05/2023
27976037	TP61		0.50 - 0.50	09/05/2023
27976038	TP62		0.50 - 0.50	09/05/2023
27976039	TP63		0.50 - 0.50	09/05/2023
27976040	TP64		0.50 - 0.50	09/05/2023
27976041	TP65		0.50 - 0.50	09/05/2023
27976042	TP66		0.50 - 0.50	09/05/2023
27976043	TP68		0.50 - 0.50	09/05/2023
27976044	TP69		0.50 - 0.50	09/05/2023
27976020	TP70		0.50 - 0.50	09/05/2023
27976022	TP71		0.50 - 0.50	09/05/2023
27976024	TP74		0.50 - 0.50	09/05/2023
27976025	TP77		0.50 - 0.50	09/05/2023
27976027	TP78		0.50 - 0.50	09/05/2023
27976029	TP80		0.50 - 0.50	09/05/2023
27976030	TP82		0.50 - 0.50	09/05/2023
27976031	TP85		0.50 - 0.50	09/05/2023
27976035	TP87		0.50 - 0.50	09/05/2023
27976009	TP91		0.50 - 0.50	09/05/2023
27976011	TP92		0.50 - 0.50	09/05/2023
27976012	TP93		0.50 - 0.50	09/05/2023
27976013	TP94		0.50 - 0.50	09/05/2023
27976015	TP95		0.50 - 0.50	09/05/2023
27976016	TP97		0.50 - 0.50	09/05/2023
27976017	TP106		0.50 - 0.50	09/05/2023
27976018	TP109		0.50 - 0.50	09/05/2023
27976019	TP112		0.50 - 0.50	09/05/2023

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

Validated

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			27976045	TP3		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976046	TP4		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							Kone Cup	S
			27976047	TP5		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976048	TP7		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976000	TP31		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976001	TP34		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
Anions by Kone (w)	All	NDPs: 0 Tests: 40	X				X			X			X			X			X		
CEN Readings	All	NDPs: 0 Tests: 41	X				X			X	X			X			X			X		
Chromium III	All	NDPs: 0 Tests: 40		X				X				X			X			X			X	
Coronene	All	NDPs: 0 Tests: 40		X				X				X			X			X			X	
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 40	X				X			X			X			X			X			
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 40	X				X			X			X			X			X			
EPH by GCxGC-FID	All	NDPs: 0 Tests: 40		X				X				X			X			X			X	
EPH CWG GC (S)	All	NDPs: 0 Tests: 40		X				X				X			X			X			X	
Fluoride	All	NDPs: 0 Tests: 40	X				X			X			X			X			X			
GRO by GC-FID (S)	All	NDPs: 0 Tests: 40			X			X				X			X			X				X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 40		X				X				X			X			X			X	
Loss on Ignition in soils	All	NDPs: 0 Tests: 40		X				X				X			X			X			X	
Mercury Dissolved	All	NDPs: 0 Tests: 40	X				X			X			X			X			X			
Metals in solid samples by OES	All	NDPs: 0 Tests: 40		X				X				X			X			X			X	
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 40		X				X				X			X			X			X	

27976008	TP46		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976007	TP45		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976006	TP44		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976005	TP42		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976004	TP39		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976003	TP38		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976002	TP37		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			27976045	TP3		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976046	TP4		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							Kone Cup	S
			27976047	TP5		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976048	TP7		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976000	TP31		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976001	TP34		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
PAH by GCMS	All	NDPs: 0 Tests: 40						
				X				
							X	
							X	
							X	
							X	
							X	
							X	
PCBs by GCMS	All	NDPs: 0 Tests: 40						
				X				
							X	
							X	
							X	
							X	
							X	
pH	All	NDPs: 0 Tests: 40						
				X				
							X	
							X	
							X	
							X	
							X	
pH Value of Filtered Water	All	NDPs: 0 Tests: 40						
			X					
					X			
							X	
							X	
							X	
							X	
Phenols by HPLC (W)	All	NDPs: 0 Tests: 40						
			X					
					X			
							X	
							X	
							X	
							X	
Sample description	All	NDPs: 0 Tests: 40						
				X				
							X	
							X	
							X	
							X	
							X	
Total Dissolved Solids on Leachates	All	NDPs: 0 Tests: 40						
			X					
					X			
							X	
							X	
							X	
							X	
Total Organic Carbon	All	NDPs: 0 Tests: 40						
				X				
							X	
							X	
							X	
							X	
							X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 40						
				X				
							X	
							X	
							X	
							X	
							X	
VOC MS (S)	All	NDPs: 0 Tests: 40						
					X			
						X		
							X	
							X	
							X	
							X	

27976008	TP46		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x			x		x	x			
				1kg TUB with Handle (ALE260)	S				x	x		x					
27976007	TP45		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x			x		x	x			
				1kg TUB with Handle (ALE260)	S				x	x		x					
27976006	TP44		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x			x		x	x			
				1kg TUB with Handle (ALE260)	S				x	x		x					
27976005	TP42		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x			x		x	x			
				1kg TUB with Handle (ALE260)	S				x	x		x					
27976004	TP39		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x			x		x	x			
				1kg TUB with Handle (ALE260)	S				x	x		x					
27976003	TP38		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x			x		x	x			
				1kg TUB with Handle (ALE260)	S				x	x		x					
27976002	TP37		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x			x		x	x			
				1kg TUB with Handle (ALE260)	S				x	x		x					

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
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UNL - Unspecified Liquid
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OTH - Other

			Lab Sample No(s)	27976036			27976037			27976038			27976039			27976040			27976041			27976042
			Customer Sample Reference	TP60			TP61			TP62			TP63			TP64			TP65			TP66
			AGS Reference																			
			Depth (m)	0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50
			Container	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Anions by Kone (w)	All	NDPs: 0 Tests: 40		X			X			X			X			X			X			X
CEN Readings	All	NDPs: 0 Tests: 41		X			X			X			X			X			X			X
Chromium III	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		
Coronene	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 40		X			X			X			X			X			X			X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 40		X			X			X			X			X			X			X
EPH by GCxGC-FID	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		
EPH CWG GC (S)	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		
Fluoride	All	NDPs: 0 Tests: 40		X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 40				X			X			X			X			X			X		
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		
Loss on Ignition in soils	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		
Mercury Dissolved	All	NDPs: 0 Tests: 40		X			X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		

27976027	TP78		0.50 - 0.50	1kg TUB with Handle (ALE260)	S	x	x			x	x			x				x					
27976025	TP77		0.50 - 0.50	60g VOC (ALE215)	S										x								
				250g Amber Jar (ALE210)	S			x	x			x	x			x	x			x		x	
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x				x					
27976024	TP74		0.50 - 0.50	60g VOC (ALE215)	S										x								
				250g Amber Jar (ALE210)	S			x	x			x	x			x	x			x		x	
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x				x					
27976022	TP71		0.50 - 0.50	60g VOC (ALE215)	S										x								
				250g Amber Jar (ALE210)	S			x	x			x	x			x	x			x		x	
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x				x					
27976020	TP70		0.50 - 0.50	60g VOC (ALE215)	S										x								
				250g Amber Jar (ALE210)	S			x	x			x	x			x	x			x		x	
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x				x					
27976044	TP69		0.50 - 0.50	60g VOC (ALE215)	S										x								
				250g Amber Jar (ALE210)	S			x	x			x	x			x	x			x		x	
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x				x					
27976043	TP68		0.50 - 0.50	60g VOC (ALE215)	S										x								
				250g Amber Jar (ALE210)	S			x	x			x	x			x	x			x		x	
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x				x					
27976042	TP66		0.50 - 0.50	60g VOC (ALE215)	S										x								
				250g Amber Jar (ALE210)	S			x	x			x	x			x	x			x		x	

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	27976036	27976037	27976038	27976039	27976040	27976041	27976042
			Customer Sample Reference	TP60	TP61	TP62	TP63	TP64	TP65	TP66
			AGS Reference							
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Container	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
PAH by GCMS	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	
PCBs by GCMS	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	
pH Value of Filtered Water	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X	
Phenols by HPLC (W)	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 40		X			X			X			X			X			X			X
Total Dissolved Solids on Leachates	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 40		X			X			X			X			X			X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 40		X			X			X			X			X			X			X
VOC MS (S)	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	

27976027	TP78		0.50 - 0.50	1kg TUB with Handle (ALE260)	S					x	x		x				
27976025	TP77		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x				x		x	x		
				1kg TUB with Handle (ALE260)	S					x	x		x				
27976024	TP74		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x				x		x	x		
				1kg TUB with Handle (ALE260)	S					x	x		x				
27976022	TP71		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x				x		x	x		
				1kg TUB with Handle (ALE260)	S					x	x		x				
27976020	TP70		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x				x		x	x		
				1kg TUB with Handle (ALE260)	S					x	x		x				
27976044	TP69		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x				x		x	x		
				1kg TUB with Handle (ALE260)	S					x	x		x				
27976043	TP68		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x				x		x	x		
				1kg TUB with Handle (ALE260)	S					x	x		x				
27976042	TP66		0.50 - 0.50	60g VOC (ALE215)	S												x
				250g Amber Jar (ALE210)	S	x	x	x				x		x	x		

Validated

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	27976027	27976029	27976030	27976031	27976035	27976009	27976011
			Customer Sample Reference	TP78	TP80	TP82	TP85	TP87	TP91	TP92
			AGS Reference							
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Container	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Anions by Kone (w)	All	NDPs: 0 Tests: 40			X		X			X			X			X			X	
CEN Readings	All	NDPs: 0 Tests: 41			X		X			X			X			X			X	
Chromium III	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X
Coronene	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 40			X		X			X			X			X			X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 40			X		X			X			X			X			X	
EPH by GCxGC-FID	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X
EPH CWG GC (S)	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X
Fluoride	All	NDPs: 0 Tests: 40			X		X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X
Loss on Ignition in soils	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X
Mercury Dissolved	All	NDPs: 0 Tests: 40			X		X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X

| | | |

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			27976027	TP78		0.50 - 0.50	250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							1kg TUB with Handle (ALE260)	S
			27976029	TP80		0.50 - 0.50	250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							1kg TUB with Handle (ALE260)	S
			27976030	TP82		0.50 - 0.50	250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							1kg TUB with Handle (ALE260)	S
			27976031	TP85		0.50 - 0.50	250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							1kg TUB with Handle (ALE260)	S
			27976035	TP87		0.50 - 0.50	250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							1kg TUB with Handle (ALE260)	S
			27976009	TP91		0.50 - 0.50	250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							1kg TUB with Handle (ALE260)	S
			27976011	TP92		0.50 - 0.50	250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
							1kg TUB with Handle (ALE260)	S
PAH by GCMS	All	NDPs: 0 Tests: 40	X				X	S
PCBs by GCMS	All	NDPs: 0 Tests: 40	X				X	S
pH	All	NDPs: 0 Tests: 40	X				X	S
pH Value of Filtered Water	All	NDPs: 0 Tests: 40			X			S
Phenols by HPLC (W)	All	NDPs: 0 Tests: 40			X			S
Sample description	All	NDPs: 0 Tests: 40	X				X	S
Total Dissolved Solids on Leachates	All	NDPs: 0 Tests: 40			X			S
Total Organic Carbon	All	NDPs: 0 Tests: 40	X				X	S
TPH CWG GC (S)	All	NDPs: 0 Tests: 40	X				X	S
VOC MS (S)	All	NDPs: 0 Tests: 40		X				S

27976019	TP112		0.50 - 0.50	250g Amber Jar (ALE210)	S		x		x		x				x		x		x		
				1kg TUB with Handle (ALE260)	S							x		x				x				
27976018	TP109		0.50 - 0.50	60g VOC (ALE215)	S																x
				250g Amber Jar (ALE210)	S		x		x		x				x		x		x		
				1kg TUB with Handle (ALE260)	S							x		x				x				
27976017	TP106		0.50 - 0.50	60g VOC (ALE215)	S																x
				250g Amber Jar (ALE210)	S		x		x		x				x		x		x		
				1kg TUB with Handle (ALE260)	S							x		x				x				
27976016	TP97		0.50 - 0.50	60g VOC (ALE215)	S																x
				250g Amber Jar (ALE210)	S		x		x		x				x		x		x		
				1kg TUB with Handle (ALE260)	S							x		x				x				
27976015	TP95		0.50 - 0.50	60g VOC (ALE215)	S																x
				250g Amber Jar (ALE210)	S		x		x		x				x		x		x		
				1kg TUB with Handle (ALE260)	S							x		x				x				
27976013	TP94		0.50 - 0.50	60g VOC (ALE215)	S																x
				250g Amber Jar (ALE210)	S		x		x		x				x		x		x		
				1kg TUB with Handle (ALE260)	S							x		x				x				
27976012	TP93		0.50 - 0.50	60g VOC (ALE215)	S																x
				250g Amber Jar (ALE210)	S		x		x		x				x		x		x		
				1kg TUB with Handle (ALE260)	S							x		x				x				
27976011	TP92		0.50 - 0.50	60g VOC (ALE215)	S																x

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend

X **Test**

N **No Determination Possible**

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			2797601 9	TP112		0.50 - 0.50	60g VOC (ALE215)	S
GRO by GC-FID (S)	All	NDPs: 0 Tests: 40					X	
VOC MS (S)	All	NDPs: 0 Tests: 40					X	

CERTIFICATE OF ANALYSIS

SDG: 230511-79 | Report Number: 690936 | Superseded Report:
Client Ref.: 6100 | Location: Blessington

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
27976045	TP3	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976046	TP4	0.50 - 0.50	Dark Brown	Silty Clay Loam	Stones	Vegetation
27976047	TP5	0.50 - 0.50	Dark Brown	Sandy Silt Loam	Stones	Vegetation
27976048	TP7	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976000	TP31	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	None
27976001	TP34	0.50 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
27976002	TP37	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976003	TP38	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976004	TP39	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976005	TP42	0.50 - 0.50	Light Brown	Silt Loam	Stones	Vegetation
27976006	TP44	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976007	TP45	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976008	TP46	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976036	TP60	0.50 - 0.50	Dark Brown	Loamy Sand	Stones	Vegetation
27976037	TP61	0.50 - 0.50	Light Brown	Loamy Sand	Stones	None
27976038	TP62	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976039	TP63	0.50 - 0.50	Light Brown	Loamy Sand	Stones	None
27976040	TP64	0.50 - 0.50	Dark Brown	Sand	Stones	None
27976041	TP65	0.50 - 0.50	Dark Brown	Loamy Sand	Stones	None
27976042	TP66	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976043	TP68	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976044	TP69	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976020	TP70	0.50 - 0.50	Light Brown	Loamy Sand	Stones	Vegetation
27976022	TP71	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976024	TP74	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976025	TP77	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976027	TP78	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976029	TP80	0.50 - 0.50	Dark Brown	Loamy Sand	Stones	None
27976030	TP82	0.50 - 0.50	Dark Brown	Sand	Stones	None
27976031	TP85	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976035	TP87	0.50 - 0.50	Dark Brown	Loamy Sand	Stones	None
27976009	TP91	0.50 - 0.50	Light Brown	Sandy Loam	Stones	Vegetation
27976011	TP92	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	None
27976012	TP93	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	None
27976013	TP94	0.50 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
27976015	TP95	0.50 - 0.50	Light Brown	Sandy Loam	Vegetation	Stones
27976016	TP97	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
27976017	TP106	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976018	TP109	0.50 - 0.50	Dark Brown	Sandy Silt Loam	Stones	Vegetation

			Colour	Description	Inclusions	Inclusions 2
27976019	TP112	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP3	TP4	TP5	TP7	TP31	TP34
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976045	27976046	27976047	27976048	27976000	27976001
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	13	15	14	14	17
Loss on ignition	<0.7 %	TM018		2.42 M	2.42 M	2.44 M	2.56 M	2.36 M	4.07 M
Organic Carbon, Total	<0.2 %	TM132		0.306 M	0.24 M	0.25 M	0.322 M	0.261 M	0.37 M
pH	1 pH Units	TM133		6.21 M	6.68 M	6.93 M	6.3 M	6.95 M	6.92 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		19.3	26.8	16.2	13.5	12.6	24.3
Antimony	<0.6 mg/kg	TM181		<0.6 #	<0.6 #	0.844 #	0.672 #	<0.6 #	1.87 #
Arsenic	<0.6 mg/kg	TM181		14.4 M	11.1 M	24.8 M	14.8 M	10.2 M	25.4 M
Barium	<0.6 mg/kg	TM181		34.8 #	44.2 #	39.2 #	49.8 #	38.8 #	90 #
Cadmium	<0.02 mg/kg	TM181		0.958 M	1.42 M	1.09 M	0.737 M	0.44 M	1.61 M
Chromium	<0.9 mg/kg	TM181		19.3 M	26.8 M	16.2 M	13.5 M	12.6 M	24.3 M
Copper	<1.4 mg/kg	TM181		16.5 M	22.2 M	16.8 M	14 M	12.3 M	45.5 M
Lead	<0.7 mg/kg	TM181		20.2 M	18.2 M	21.7 M	22.7 M	21 M	44.1 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		0.696 #	0.628 #	1.28 #	0.705 #	0.676 #	1.5 #
Nickel	<0.2 mg/kg	TM181		42.2 M	59.1 M	46.6 M	29.7 M	22.6 M	80.1 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.06 #	1.18 #	<1 #	1.31 #
Zinc	<1.9 mg/kg	TM181		104 M	106 M	121 M	88.9 M	78.4 M	187 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP37	TP38	TP39	TP42	TP44	TP45
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976002	27976003	27976004	27976005	27976006	27976007
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		16	16	17	26	12	13
Loss on ignition	<0.7 %	TM018		2.53 M	2.33 M	3.15 M	2.09 M	1.63 M	2.12 M
Organic Carbon, Total	<0.2 %	TM132		0.351 M	0.247 M	0.417 M	0.279 M	<0.2 M	0.329 M
pH	1 pH Units	TM133		6.58 M	6.58 M	6.42 M	6.44 M	6.68 M	6.43 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		15.9	11.9	13.6	13.2	18.4	14.3
Antimony	<0.6 mg/kg	TM181		0.849 #	0.751 #	<0.6 #	0.857 #	1.06 #	1.11 #
Arsenic	<0.6 mg/kg	TM181		17 M	11 M	12.5 M	11.6 M	12.3 M	11 M
Barium	<0.6 mg/kg	TM181		42.1 #	30.8 #	41.3 #	37.4 #	33.1 #	44 #
Cadmium	<0.02 mg/kg	TM181		0.795 M	0.564 M	0.691 M	0.971 M	1.07 M	1.1 M
Chromium	<0.9 mg/kg	TM181		16.8 M	12.4 M	13.6 M	13.2 M	18.4 M	14.3 M
Copper	<1.4 mg/kg	TM181		17.3 M	13.6 M	15 M	17.2 M	17.1 M	16.3 M
Lead	<0.7 mg/kg	TM181		29.2 M	22.6 M	22.3 M	25.5 M	21 M	22.8 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		0.887 #	0.602 #	0.915 #	0.789 #	0.834 #	0.898 #
Nickel	<0.2 mg/kg	TM181		37.5 M	27 M	27.2 M	30.5 M	36.8 M	33.1 M
Selenium	<1 mg/kg	TM181		1.15 #	1.02 #	1.19 #	1.07 #	1.06 #	1.04 #
Zinc	<1.9 mg/kg	TM181		102 M	96.6 M	91.6 M	92 M	91.3 M	90.9 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP46	TP60	TP61	TP62	TP63	TP64
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976008	27976036	27976037	27976038	27976039	27976040
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	15	13	13	6.7	4.5
Loss on ignition	<0.7 %	TM018		3.06 M	2.33 M	1.97 M	2.08 M	0.84 M	0.842 M
Organic Carbon, Total	<0.2 %	TM132		0.447 M	0.338 M	0.212 M	0.391 M	<0.2 M	<0.2 M
pH	1 pH Units	TM133		6.45 M	6.33 M	7.65 M	8.28 M	9 M	9.29 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		14.6	16.7	15.8	12.1	10.8	<0.9
Antimony	<0.6 mg/kg	TM181		0.858 #	1.1 #	0.937 #	<0.6 #	<0.6 #	<6 #
Arsenic	<0.6 mg/kg	TM181		12.1 M	13.1 M	41.6 M	10.6 M	12.3 M	7.3 M
Barium	<0.6 mg/kg	TM181		63.1 #	40.2 #	46.3 #	51.1 #	37.6 #	31.3 #
Cadmium	<0.02 mg/kg	TM181		1.2 M	1.68 M	0.615 M	0.936 M	1.43 M	0.387 M
Chromium	<0.9 mg/kg	TM181		14.6 M	16.7 M	15.8 M	12.1 M	10.8 M	<9 M
Copper	<1.4 mg/kg	TM181		16.9 M	17.7 M	13.4 M	14.7 M	12.8 M	<14 M
Lead	<0.7 mg/kg	TM181		24.2 M	26.5 M	28.9 M	18.1 M	11.7 M	10.3 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<1 M
Molybdenum	<0.1 mg/kg	TM181		0.918 #	1.04 #	0.875 #	0.557 #	0.707 #	<1 #
Nickel	<0.2 mg/kg	TM181		28.3 M	37.3 M	32.6 M	24.1 M	21 M	17 M
Selenium	<1 mg/kg	TM181		1.43 #	1.26 #	1.22 #	<1 #	<1 #	<10 #
Zinc	<1.9 mg/kg	TM181		105 M	106 M	89.7 M	77.9 M	61.3 M	41.7 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	5.54	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP65	TP66	TP68	TP69	TP70	TP71
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976041	27976042	27976043	27976044	27976020	27976022
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	15	14	16	14	17
Loss on ignition	<0.7 %	TM018		1.71 M	2.94 M	2.56 M	2.37 M	2.45 M	2.83 M
Organic Carbon, Total	<0.2 %	TM132		<0.2 M	0.441 M	0.343 M	0.302 M	0.348 M	0.391 M
pH	1 pH Units	TM133		8.55 M	6.78 M	6.58 M	7.02 M	6.53 M	6.38 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		15.2	11.4	13.5	15.5	15.6	17
Antimony	<0.6 mg/kg	TM181		0.749 #	<0.6 #	<6 #	0.751 #	1.18 #	0.921 #
Arsenic	<0.6 mg/kg	TM181		21 M	8.82 M	12.7 M	13.3 M	12.1 M	16.1 M
Barium	<0.6 mg/kg	TM181		54.5 #	51.4 #	46.6 #	47.6 #	41 #	59.3 #
Cadmium	<0.02 mg/kg	TM181		1.33 M	0.538 M	0.422 M	0.721 M	0.931 M	1.75 M
Chromium	<0.9 mg/kg	TM181		15.2 M	11.4 M	13.5 M	16.3 M	15.6 M	17 M
Copper	<1.4 mg/kg	TM181		17.7 M	10 M	17 M	19 M	15.5 M	19.2 M
Lead	<0.7 mg/kg	TM181		21.5 M	21 M	22 M	23.9 M	23.2 M	28.3 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		0.819 #	0.867 #	<1 #	1.15 #	0.944 #	1.08 #
Nickel	<0.2 mg/kg	TM181		33.4 M	14.2 M	26 M	42.6 M	33.8 M	44.4 M
Selenium	<1 mg/kg	TM181		<1 #	1.18 #	<10 #	1.25 #	1.29 #	1.93 #
Zinc	<1.9 mg/kg	TM181		87.5 M	73.3 M	86.4 M	107 M	90 M	140 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP74	TP77	TP78	TP80	TP82	TP85
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976024	27976025	27976027	27976029	27976030	27976031
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		14	16	16	4.7	6.3	15
Loss on ignition	<0.7 %	TM018		1.87 M	3.7 M	2.64 M	0.817 M	0.916 M	2.47 M
Organic Carbon, Total	<0.2 %	TM132		<0.2 M	0.411 M	0.339 M	<0.2 M	<0.2 M	0.406 M
pH	1 pH Units	TM133		6.76 M	6.8 M	6.61 M	9.11 M	8.8 M	7.39 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		23.4	12.2	16.1	9.17	7.95	18.2
Antimony	<0.6 mg/kg	TM181		0.702 #	<0.6 #	1.12 #	<0.6 #	<0.6 #	1.23 #
Arsenic	<0.6 mg/kg	TM181		11.8 M	11.2 M	15.4 M	6.55 M	6.05 M	18.7 M
Barium	<0.6 mg/kg	TM181		38.9 #	48.5 #	60.7 #	28.7 #	29.2 #	69.7 #
Cadmium	<0.02 mg/kg	TM181		1.2 M	0.485 M	1.4 M	0.918 M	0.922 M	1.2 M
Chromium	<0.9 mg/kg	TM181		23.4 M	12.2 M	17.3 M	9.17 M	7.95 M	19.4 M
Copper	<1.4 mg/kg	TM181		18.5 M	10.7 M	25.9 M	9.25 M	11.3 M	20.6 M
Lead	<0.7 mg/kg	TM181		20.5 M	25.2 M	47.4 M	12.1 M	11.5 M	30.9 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		0.663 #	0.878 #	1.38 #	0.65 #	0.57 #	1.5 #
Nickel	<0.2 mg/kg	TM181		42.1 M	15.5 M	41.6 M	16.5 M	17.3 M	39.6 M
Selenium	<1 mg/kg	TM181		<1 #	1.52 #	1.32 #	<1 #	<1 #	1.41 #
Zinc	<1.9 mg/kg	TM181		102 M	80.5 M	122 M	57.2 M	60.3 M	120 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP87	TP91	TP92	TP93	TP94	TP95
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976035	27976009	27976011	27976012	27976013	27976015
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	21	17	18	17	15
Loss on ignition	<0.7 %	TM018		2.01 M	5.5 M	4.17 M	3.35 M	2.61 M	2.91 M
Organic Carbon, Total	<0.2 %	TM132		0.214 M	1.27 M	0.528 M	0.514 M	0.346 M	0.484 M
pH	1 pH Units	TM133		6.48 M	5.99 M	7.48 M	6.78 M	8.16 M	6.32 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		<0.9	14	<0.9	12.5	14.2	13.9
Antimony	<0.6 mg/kg	TM181		2.99 #	0.871 #	4.91 #	0.669 #	0.735 #	<0.6 #
Arsenic	<0.6 mg/kg	TM181		8.26 M	13.5 M	77.8 M	11 M	13.5 M	11.1 M
Barium	<0.6 mg/kg	TM181		48.1 #	51 #	84.1 #	47 #	52.9 #	49.9 #
Cadmium	<0.02 mg/kg	TM181		2.24 M	0.836 M	2.16 M	0.545 M	0.911 M	0.661 M
Chromium	<0.9 mg/kg	TM181		<0.9 M	14 M	<0.9 M	12.5 M	14.2 M	13.9 M
Copper	<1.4 mg/kg	TM181		<1.4 M	17.5 M	21.3 M	14.1 M	19.4 M	13.3 M
Lead	<0.7 mg/kg	TM181		17.4 M	37.5 M	111 M	25.6 M	26.3 M	26 M
Mercury	<0.1 mg/kg	TM181		1.59 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		2.24 #	1.09 #	1.61 #	1.01 #	0.998 #	0.913 #
Nickel	<0.2 mg/kg	TM181		19.4 M	21.8 M	37.7 M	18.7 M	36.1 M	22.5 M
Selenium	<1 mg/kg	TM181		2.14 #	1.53 #	2.31 #	1.51 #	1.13 #	1.49 #
Zinc	<1.9 mg/kg	TM181		102 M	96.7 M	355 M	86.6 M	112 M	94.5 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	7.77	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP97	TP106	TP109	TP112		
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50		
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023		
			Sample Time	-	-	-	-		
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023		
			SDG Ref	230511-79	230511-79	230511-79	230511-79		
			Lab Sample No.(s)	27976016	27976017	27976018	27976019		
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		18	18	17	14		
Loss on ignition	<0.7 %	TM018		3.26 M	4.28 M	2.45 M	2.24 M		
Organic Carbon, Total	<0.2 %	TM132		0.623 M	0.773 M	0.348 M	0.321 M		
pH	1 pH Units	TM133		6.21 M	7.84 M	6.53 M	8.5 M		
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M		
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21		
Chromium, Trivalent	<0.9 mg/kg	TM181		14.3	15.6	18	12.5		
Antimony	<0.6 mg/kg	TM181		0.998 #	0.641 #	<0.6 #	0.605 #		
Arsenic	<0.6 mg/kg	TM181		14.5 M	13.1 M	10.5 M	10.9 M		
Barium	<0.6 mg/kg	TM181		46.3 #	90.6 #	42.3 #	56.2 #		
Cadmium	<0.02 mg/kg	TM181		0.829 M	0.958 M	0.666 M	0.973 M		
Chromium	<0.9 mg/kg	TM181		14.3 M	15.6 M	18 M	12.5 M		
Copper	<1.4 mg/kg	TM181		18.1 M	18.3 M	13.3 M	14.1 M		
Lead	<0.7 mg/kg	TM181		33.3 M	31.7 M	26.1 M	22.7 M		
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M		
Molybdenum	<0.1 mg/kg	TM181		1.17 #	0.851 #	0.709 #	0.795 #		
Nickel	<0.2 mg/kg	TM181		22.7 M	27.7 M	35.9 M	25.9 M		
Selenium	<1 mg/kg	TM181		1.08 #	1.84 #	1.19 #	1.14 #		
Zinc	<1.9 mg/kg	TM181		88.2 M	98.1 M	97 M	82.5 M		
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10		
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200		
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		8.06	6.05	<5	<5		

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP3	TP4	TP5	TP7	TP31	TP34
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976045	27976046	27976047	27976048	27976000	27976001
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
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PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP37	TP38	TP39	TP42	TP44	TP45
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976002	27976003	27976004	27976005	27976006	27976007
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP46	TP60	TP61	TP62	TP63	TP64
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976008	27976036	27976037	27976038	27976039	27976040
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	16.7 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	15.2 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	25.3 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	20.8 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
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PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP65	TP66	TP68	TP69	TP70	TP71
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976041	27976042	27976043	27976044	27976020	27976022
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

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Results Legend

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M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP74	TP77	TP78	TP80	TP82	TP85
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976024	27976025	27976027	27976029	27976030	27976031
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
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PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP87	TP91	TP92	TP93	TP94	TP95
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976035	27976009	27976011	27976012	27976013	27976015
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 ♦ M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 ♦ M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 ♦ M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 ♦ M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 ♦ M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 ♦ M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 ♦ M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 ♦ M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 ♦ M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 ♦ M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 ♦ M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 ♦ M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 ♦ M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 ♦ M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 ♦ M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 ♦ M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

PAH by GCMS

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP97	TP106	TP109	TP112		
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50		
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023		
			Sample Time	-	-	-	-		
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023		
			SDG Ref	230511-79	230511-79	230511-79	230511-79		
			Lab Sample No.(s)	27976016	27976017	27976018	27976019		
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M		
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M		
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M		
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M		
Phenanthrene	<15 µg/kg	TM218		31.7 M	<15 M	<15 M	<15 M		
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M		
Fluoranthene	<17 µg/kg	TM218		37.2 M	<17 M	<17 M	<17 M		
Pyrene	<15 µg/kg	TM218		33.4 M	<15 M	<15 M	<15 M		
Benz(a)anthracene	<14 µg/kg	TM218		25 M	<14 M	<14 M	<14 M		
Chrysene	<10 µg/kg	TM218		23.9 M	<10 M	<10 M	<10 M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		25.2 M	<15 M	<15 M	<15 M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		19 M	<14 M	<14 M	<14 M		
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		195	<118	<118	<118		

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP3	TP4	TP5	TP7	TP31	TP34
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976045	27976046	27976047	27976048	27976000	27976001
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		101	91.8	82.8	100	102	95.3
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		1320 #	<1000 #	<1000 #	2100 #	1050 #	<1000 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	1600 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP37	TP38	TP39	TP42	TP44	TP45
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976002	27976003	27976004	27976005	27976006	27976007
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		91.8	96.5	95	152 4	98.9	97.1
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10 4	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10 4	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10 4	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		1260 #	<1000 #	1680 #	<1000 #	<1000 #	1830 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10 4	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10 4	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10 4	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20 4	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20 4	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20 4	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20 4	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20 4	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50 4	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50 4	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20 4	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+$@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP46	TP60	TP61	TP62	TP63	TP64
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976008	27976036	27976037	27976038	27976039	27976040
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		92.3	91.7	104	99.4	98.8	103
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		3940 #	<1000 #	1090 #	5420 #	<1000 #	<1000 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	5710	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	1050 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		1340 #	<1000 #	<1000 #	2930 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP65	TP66	TP68	TP69	TP70	TP71
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976041	27976042	27976043	27976044	27976020	27976022
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		104	107	98.6	97.6	97.8	103
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	2030 #	1910 #	<1000 #	2300 #	1850 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP74	TP77	TP78	TP80	TP82	TP85
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976024	27976025	27976027	27976029	27976030	27976031
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		95.1	94.6	94.4	91.3	102	94.7
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	1090 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP87	TP91	TP92	TP93	TP94	TP95
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976035	27976009	27976011	27976012	27976013	27976015
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		97.3	90.4	101	96	89	99.2
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		1030 #	23300 #	2510 #	3690 #	<1000 #	4690 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	3140	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	27100	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	44100	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	1840 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	11200 #	1040 #	1270 #	<1000 #	1760 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	3940	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	17000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	44100	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP97	TP106	TP109	TP112		
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50		
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023		
			Sample Time	-	-	-	-		
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023		
			SDG Ref	230511-79	230511-79	230511-79	230511-79		
			Lab Sample No.(s)	27976016	27976017	27976018	27976019		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		86.5	94.3	116	96.5		
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		2140 #	5170 #	<1000 #	1340 #		
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000		
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	5490	<5000	<5000		
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000		
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		1600 #	3140 #	<1000 #	<1000 #		
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000		
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000		
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000		
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000		
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50		
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50		
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20		

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP3	TP4	TP5	TP7	TP31	TP34
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976045	27976046	27976047	27976048	27976000	27976001
			AGS Reference						
Dibromofluoromethane**	%	TM116		107	105	120	111	103	103
Toluene-d8**	%	TM116		99	98.6	101	101	96.7	95.8
4-Bromofluorobenzene**	%	TM116		89.6	90.1	97	74.6	106	105
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP37	TP38	TP39	TP42	TP44	TP45
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976002	27976003	27976004	27976005	27976006	27976007
			AGS Reference						
Dibromofluoromethane**	%	TM116		105	112	104	110	105	103
Toluene-d8**	%	TM116		94.9	96	96	103	100	106
4-Bromofluorobenzene**	%	TM116		99.7	108	107	107	97	95
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

Validated

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP46	TP60	TP61	TP62	TP63	TP64
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976008	27976036	27976037	27976038	27976039	27976040
			AGS Reference						
Dibromofluoromethane**	%	TM116		106	106	104	107	107	107
Toluene-d8**	%	TM116		94.8	97.9	99.2	97.3	100	99.2
4-Bromofluorobenzene**	%	TM116		99.2	88.4	94.9	84.3	95.5	96.6
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP65	TP66	TP68	TP69	TP70	TP71
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976041	27976042	27976043	27976044	27976020	27976022
			AGS Reference						
Dibromofluoromethane**	%	TM116		107	108	110	106	106	105
Toluene-d8**	%	TM116		99.4	99.9	99.1	99.3	98.1	96.7
4-Bromofluorobenzene**	%	TM116		93.3	89	90.7	93.6	89.4	105
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP74	TP77	TP78	TP80	TP82	TP85
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976024	27976025	27976027	27976029	27976030	27976031
			AGS Reference						
Dibromofluoromethane**	%	TM116		103	104	104	104	105	106
Toluene-d8**	%	TM116		95.7	95.6	95.5	96.3	95.2	95.5
4-Bromofluorobenzene**	%	TM116		104	100	104	107	99.7	99.8
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP87	TP91	TP92	TP93	TP94	TP95
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230511-79	230511-79	230511-79	230511-79	230511-79	230511-79
			Lab Sample No.(s)	27976035	27976009	27976011	27976012	27976013	27976015
			AGS Reference						
Dibromofluoromethane**	%	TM116		111	107	107	105	106	105
Toluene-d8**	%	TM116		97.1	93.6	98.9	95.7	93.5	94.3
4-Bromofluorobenzene**	%	TM116		108	78.4	91.7	99.5	95.8	97.1
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP97	TP106	TP109	TP112		
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50		
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023		
			Sample Time	-	-	-	-		
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023		
			SDG Ref	230511-79	230511-79	230511-79	230511-79		
			Lab Sample No.(s)	27976016	27976017	27976018	27976019		
			AGS Reference						
Dibromofluoromethane**	%	TM116		108	111	105	110		
Toluene-d8**	%	TM116		94.7	91.7	96.1	102		
4-Bromofluorobenzene**	%	TM116		92.6	92.9	100	98.9		
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M		
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M		
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M		
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M		
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #		
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M		

Validated

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	17.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.9
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976000
Sampled Date	09-May-2023
Customer Sample Ref.	TP31
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.261	3	5	6
Loss on Ignition (%)	2.36	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.95	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0013	<0.0002	0.013	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00115	<0.0003	0.0115	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00043	<0.0004	0.0043	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00221	<0.001	0.0221	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	17.7	<10	177	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.29	<3	42.9	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.83
Conductivity (µS/cm)	24
Volume Leachant (Litres)	0.884

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	17.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.3
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976001
Sampled Date	09-May-2023
Customer Sample Ref.	TP34
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.37	3	5	6
Loss on Ignition (%)	4.07	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.92	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0056	<0.0002	0.056	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00102	<0.0003	0.0102	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000421	<0.0004	0.00421	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00258	<0.001	0.0258	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	91.2	<10	912	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.27	<3	52.7	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.96
Conductivity (µS/cm)	109
Volume Leachant (Litres)	0.884

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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Validated

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	19.6
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.6
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976002
Sampled Date	09-May-2023
Customer Sample Ref.	TP37
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.351	3	5	6
Loss on Ignition (%)	2.53	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.58	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00109	<0.0002	0.0109	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00271	<0.0003	0.0271	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00132	<0.0004	0.0132	<0.004	0.4	10	40
Lead	0.00033	<0.0002	0.0033	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00217	<0.001	0.0217	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.577	<0.5	5.77	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	21.5	<10	215	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.95	<3	49.5	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.21
Conductivity (µS/cm)	29
Volume Leachant (Litres)	0.883

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	18.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.5
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976003
Sampled Date	09-May-2023
Customer Sample Ref.	TP38
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.247	3	5	6
Loss on Ignition (%)	2.33	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.58	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000681	<0.0002	0.00681	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00116	<0.0003	0.0116	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000921	<0.0004	0.00921	<0.004	0.4	10	40
Lead	0.000389	<0.0002	0.00389	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00274	<0.001	0.0274	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	12.1	<10	121	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.73	<3	47.3	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.77
Conductivity (µS/cm)	18
Volume Leachant (Litres)	0.883

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	17.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.1
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976004
Sampled Date	09-May-2023
Customer Sample Ref.	TP39
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.417	3	5	6
Loss on Ignition (%)	3.15	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.42	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00145	<0.0002	0.0145	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00244	<0.0003	0.0244	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00126	<0.0004	0.0126	<0.004	0.4	10	40
Lead	0.000366	<0.0002	0.00366	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00488	<0.001	0.0488	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	22.4	<10	224	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.49	<3	64.9	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.91
Conductivity (µS/cm)	32
Volume Leachant (Litres)	0.884

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.113	**Natural Moisture Content (%)**	24.9
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	80.1
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976005
Sampled Date	09-May-2023
Customer Sample Ref.	TP42
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.279	3	5	6
Loss on Ignition (%)	2.09	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.44	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00128	<0.0002	0.0128	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00143	<0.0003	0.0143	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000862	<0.0004	0.00862	<0.004	0.4	10	40
Lead	0.000217	<0.0002	0.00217	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00138	<0.001	0.0138	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	19	<10	190	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.09	<3	30.9	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.82
Conductivity (µS/cm)	24
Volume Leachant (Litres)	0.878

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	19.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.8
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976006
Sampled Date	09-May-2023
Customer Sample Ref.	TP44
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.63	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.68	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000764	<0.0002	0.00764	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00149	<0.0003	0.0149	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00108	<0.0004	0.0108	<0.004	0.4	10	40
Lead	0.000361	<0.0002	0.00361	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0084	<0.001	0.084	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	16.4	<10	164	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.95	<3	49.5	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.92
Conductivity (µS/cm)	
Volume Leachant (Litres)	0.883

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.110	**Natural Moisture Content (%)**	22.3
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	81.8
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976007
Sampled Date	09-May-2023
Customer Sample Ref.	TP45
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.329	3	5	6
Loss on Ignition (%)	2.12	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.43	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000506	<0.0005	0.00506	<0.005	0.5	2	25
Barium	0.0018	<0.0002	0.018	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.002	<0.0003	0.02	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00161	<0.0004	0.0161	<0.004	0.4	10	40
Lead	0.000769	<0.0002	0.00769	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00421	<0.001	0.0421	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	14.9	<10	149	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.28	<3	42.8	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.87
Conductivity (µS/cm)	20
Volume Leachant (Litres)	0.880

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	18.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.2
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976008
Sampled Date	09-May-2023
Customer Sample Ref.	TP46
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.447	3	5	6
Loss on Ignition (%)	3.06	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.45	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00154	<0.0002	0.0154	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00296	<0.0003	0.0296	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00164	<0.001	0.0164	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	18.4	<10	184	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.49	<3	64.9	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.02
Conductivity (µS/cm)	27
Volume Leachant (Litres)	0.883

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.114	**Natural Moisture Content (%)**	26.1
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	79.3
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976009
Sampled Date	09-May-2023
Customer Sample Ref.	TP91
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	1.27	3	5	6
Loss on Ignition (%)	5.5	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	7.77	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	5.99	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.00213	<0.0005	0.0213	<0.005	0.5	2	25
Barium	0.00766	<0.0002	0.0766	<0.002	20	100	300
Cadmium	0.000258	<0.00008	0.00258	<0.0008	0.04	1	5
Chromium	0.00101	<0.001	0.0101	<0.01	0.5	10	70
Copper	0.00931	<0.0003	0.0931	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00339	<0.0004	0.0339	<0.004	0.4	10	40
Lead	0.00125	<0.0002	0.0125	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00311	<0.001	0.0311	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	6.5	<2	65	<20	1000	20000	50000
Total Dissolved Solids	110	<10	1100	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	15.4	<3	154	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.06
Conductivity (µS/cm)	142
Volume Leachant (Litres)	0.876

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.108	**Natural Moisture Content (%)**	20.9
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	82.7
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976011
Sampled Date	09-May-2023
Customer Sample Ref.	TP92
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.528	3	5	6
Loss on Ignition (%)	4.17	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.48	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000798	<0.0002	0.00798	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00119	<0.0003	0.0119	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000453	<0.0004	0.00453	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0218	<0.001	0.218	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	29.8	<10	298	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.27	<3	92.7	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.26
Conductivity (µS/cm)	
Volume Leachant (Litres)	0.882

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.109	**Natural Moisture Content (%)**	22.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	81.7
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976012
Sampled Date	09-May-2023
Customer Sample Ref.	TP93
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.514	3	5	6
Loss on Ignition (%)	3.35	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.78	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000641	<0.0005	0.00641	<0.005	0.5	2	25
Barium	0.0018	<0.0002	0.018	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00516	<0.0003	0.0516	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00167	<0.0004	0.0167	<0.004	0.4	10	40
Lead	0.000848	<0.0002	0.00848	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0108	<0.001	0.108	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.549	<0.5	5.49	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	27.2	<10	272	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.06	<3	80.6	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.94
Conductivity (µS/cm)	38
Volume Leachant (Litres)	0.880

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.6
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976013
Sampled Date	09-May-2023
Customer Sample Ref.	TP94
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.346	3	5	6
Loss on Ignition (%)	2.61	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.16	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000848	<0.0002	0.00848	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00121	<0.0003	0.0121	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00348	<0.001	0.0348	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	55.5	<10	555	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.15	<3	51.5	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.81
Conductivity (µS/cm)	76
Volume Leachant (Litres)	0.887

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.109	**Natural Moisture Content (%)**	20.9
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	82.7
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976015
Sampled Date	09-May-2023
Customer Sample Ref.	TP95
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.484	3	5	6
Loss on Ignition (%)	2.91	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.32	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00167	<0.0002	0.0167	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00278	<0.0003	0.0278	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000147	<0.00001	0.000147	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000779	<0.0004	0.00779	<0.004	0.4	10	40
Lead	0.00055	<0.0002	0.0055	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0017	<0.001	0.017	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	16.5	<10	165	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.22	<3	62.2	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.95
Conductivity (µS/cm)	28
Volume Leachant (Litres)	0.882

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.111	**Natural Moisture Content (%)**	23.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	81
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976016
Sampled Date	09-May-2023
Customer Sample Ref.	TP97
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.623	3	5	6
Loss on Ignition (%)	3.26	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	8.06	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.21	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000718	<0.0005	0.00718	<0.005	0.5	2	25
Barium	0.00131	<0.0002	0.0131	<0.002	20	100	300
Cadmium	0.000526	<0.00008	0.00526	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00394	<0.0003	0.0394	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00168	<0.0004	0.0168	<0.004	0.4	10	40
Lead	0.00037	<0.0002	0.0037	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00439	<0.001	0.0439	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	16.1	<10	161	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.02	<3	60.2	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.65
Conductivity (µS/cm)	22
Volume Leachant (Litres)	0.879

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.112	**Natural Moisture Content (%)**	25.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	79.8
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976017
Sampled Date	09-May-2023
Customer Sample Ref.	TP106
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.773	3	5	6
Loss on Ignition (%)	4.28	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	6.05	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.84	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00123	<0.0005	0.0123	<0.005	0.5	2	25
Barium	0.00216	<0.0002	0.0216	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00221	<0.0003	0.0221	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000144	<0.00001	0.000144	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00115	<0.0004	0.0115	<0.004	0.4	10	40
Lead	0.00101	<0.0002	0.0101	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0179	<0.001	0.179	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.766	<0.5	7.66	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	31.3	<10	313	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.63	<3	66.3	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.27
Conductivity (µS/cm)	45
Volume Leachant (Litres)	0.878

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.105	**Natural Moisture Content (%)**	15.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.3
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976018
Sampled Date	09-May-2023
Customer Sample Ref.	TP109
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.348	3	5	6
Loss on Ignition (%)	2.45	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.53	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00163	<0.0002	0.0163	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00288	<0.0003	0.0288	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00163	<0.0004	0.0163	<0.004	0.4	10	40
Lead	0.000934	<0.0002	0.00934	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.112	<0.001	1.12	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	24	<10	240	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.22	<3	82.2	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.72
Conductivity (µS/cm)	33
Volume Leachant (Litres)	0.885

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.6
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.5
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976019
Sampled Date	09-May-2023
Customer Sample Ref.	TP112
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.321	3	5	6
Loss on Ignition (%)	2.24	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.5	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.001	<0.0005	0.01	<0.005	0.5	2	25
Barium	0.00201	<0.0002	0.0201	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00133	<0.0003	0.0133	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00085	<0.0004	0.0085	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0124	<0.001	0.124	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	68	<10	680	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.23	<3	82.3	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.81
Conductivity (µS/cm)	88
Volume Leachant (Litres)	0.887

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.6
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976020
Sampled Date	09-May-2023
Customer Sample Ref.	TP70
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.348	3	5	6
Loss on Ignition (%)	2.45	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.53	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00201	<0.0002	0.0201	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00274	<0.0003	0.0274	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000878	<0.0004	0.00878	<0.004	0.4	10	40
Lead	0.000412	<0.0002	0.00412	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00495	<0.001	0.0495	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	27.4	<10	274	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.56	<3	45.6	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.41
Conductivity (µS/cm)	39
Volume Leachant (Litres)	0.887

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.105	**Natural Moisture Content (%)**	16.3
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976022
Sampled Date	09-May-2023
Customer Sample Ref.	TP71
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.391	3	5	6
Loss on Ignition (%)	2.83	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.38	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000694	<0.0002	0.00694	<0.002	20	100	300
Cadmium	0.000132	<0.00008	0.00132	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00162	<0.0003	0.0162	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000582	<0.0004	0.00582	<0.004	0.4	10	40
Lead	0.000208	<0.0002	0.00208	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00146	<0.001	0.0146	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	13.7	<10	137	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.72	<3	57.2	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.92
Conductivity (µS/cm)	21
Volume Leachant (Litres)	0.885

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.108	**Natural Moisture Content (%)**	19.9
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.4
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976024
Sampled Date	09-May-2023
Customer Sample Ref.	TP74
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.87	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.76	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000478	<0.0002	0.00478	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00101	<0.0003	0.0101	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0035	<0.001	0.035	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	17.4	<10	174	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.49	<3	34.9	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.08
Conductivity (µS/cm)	23
Volume Leachant (Litres)	0.882

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	18.9
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.1
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976025
Sampled Date	09-May-2023
Customer Sample Ref.	TP77
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.411	3	5	6
Loss on Ignition (%)	3.7	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.8	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00109	<0.0002	0.0109	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000825	<0.0003	0.00825	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00138	<0.001	0.0138	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	15.7	<10	157	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.18	<3	51.8	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.77
Conductivity (µS/cm)	21
Volume Leachant (Litres)	0.883

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.110	**Natural Moisture Content (%)**	22.1
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	81.9
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976027
Sampled Date	09-May-2023
Customer Sample Ref.	TP78
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.339	3	5	6
Loss on Ignition (%)	2.64	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.61	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00195	<0.0002	0.0195	<0.002	20	100	300
Cadmium	0.00147	<0.00008	0.0147	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00174	<0.0003	0.0174	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00594	<0.003	0.0594	<0.03	0.5	10	30
Nickel	0.00118	<0.0004	0.0118	<0.004	0.4	10	40
Lead	0.00093	<0.0002	0.0093	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0289	<0.001	0.289	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	20.2	<10	202	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.75	<3	57.5	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.17
Conductivity (µS/cm)	25
Volume Leachant (Litres)	0.880

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.094	**Natural Moisture Content (%)**	5.08
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	95.2
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976029
Sampled Date	09-May-2023
Customer Sample Ref.	TP80
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	0.817	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	9.11	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Conc^n in 10:1 eluate (mg/l)		**A_2** 10:1 conc^n leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000959	<0.0005	0.00959	<0.005	0.5	2	25
Barium	0.000929	<0.0002	0.00929	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000691	<0.0003	0.00691	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	0.000254	<0.0002	0.00254	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	43.9	<10	439	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.69
Conductivity (µS/cm)	61
Volume Leachant (Litres)	0.895

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

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.098	**Natural Moisture Content (%)**	9.04
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	91.7
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976030
Sampled Date	09-May-2023
Customer Sample Ref.	TP82
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	0.916	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.8	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.00102	<0.0005	0.0102	<0.005	0.5	2	25
Barium	0.00106	<0.0002	0.0106	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0011	<0.0003	0.011	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00339	<0.001	0.0339	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	50.4	<10	504	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.4	<3	44	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.74
Conductivity (µS/cm)	66
Volume Leachant (Litres)	0.892

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	18
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.8
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976031
Sampled Date	09-May-2023
Customer Sample Ref.	TP85
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.406	3	5	6
Loss on Ignition (%)	2.47	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.39	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00181	<0.0002	0.0181	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00204	<0.0003	0.0204	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00131	<0.0004	0.0131	<0.004	0.4	10	40
Lead	0.000306	<0.0002	0.00306	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00187	<0.001	0.0187	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	25.6	<10	256	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.39	<3	63.9	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.27
Conductivity (µS/cm)	28
Volume Leachant (Litres)	0.884

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.1
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.8
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976035
Sampled Date	09-May-2023
Customer Sample Ref.	TP87
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.214	3	5	6
Loss on Ignition (%)	2.01	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.48	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00105	<0.0002	0.0105	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00119	<0.0003	0.0119	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000717	<0.0004	0.00717	<0.004	0.4	10	40
Lead	0.000653	<0.0002	0.00653	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00423	<0.001	0.0423	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	13.5	<10	135	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.5	<3	45	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.76
Conductivity (µS/cm)	15
Volume Leachant (Litres)	0.887

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.105	**Natural Moisture Content (%)**	16.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.8
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976036
Sampled Date	09-May-2023
Customer Sample Ref.	TP60
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.338	3	5	6
Loss on Ignition (%)	2.33	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.33	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0011	<0.0002	0.011	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00168	<0.0003	0.0168	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000964	<0.0004	0.00964	<0.004	0.4	10	40
Lead	0.000362	<0.0002	0.00362	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00245	<0.001	0.0245	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	18.6	<10	186	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.53	<3	45.3	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.19
Conductivity (µS/cm)	
Volume Leachant (Litres)	0.885

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.105	**Natural Moisture Content (%)**	15.6
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.5
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976037
Sampled Date	09-May-2023
Customer Sample Ref.	TP61
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.212	3	5	6
Loss on Ignition (%)	1.97	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.65	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000818	<0.0002	0.00818	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00164	<0.0003	0.0164	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000801	<0.0004	0.00801	<0.004	0.4	10	40
Lead	0.000464	<0.0002	0.00464	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00387	<0.001	0.0387	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	16.2	<10	162	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.45	<3	44.5	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.08
Conductivity (µS/cm)	22
Volume Leachant (Litres)	0.885

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	16.6
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.8
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976038
Sampled Date	09-May-2023
Customer Sample Ref.	TP62
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.391	3	5	6
Loss on Ignition (%)	2.08	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	5.54	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.28	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.00118	<0.0005	0.0118	<0.005	0.5	2	25
Barium	0.00424	<0.0002	0.0424	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00103	<0.001	0.0103	<0.01	0.5	10	70
Copper	0.00187	<0.0003	0.0187	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.0011	<0.0004	0.011	<0.004	0.4	10	40
Lead	0.000234	<0.0002	0.00234	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	75.1	<10	751	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	8.36	<3	83.6	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.88
Conductivity (µS/cm)	102
Volume Leachant (Litres)	0.885

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.097	**Natural Moisture Content (%)**	8.06
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	92.5
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976039
Sampled Date	09-May-2023
Customer Sample Ref.	TP63
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	0.84	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	9	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0012	<0.0005	0.012	<0.005	0.5	2	25
Barium	0.00152	<0.0002	0.0152	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000369	<0.0003	0.00369	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00305	<0.001	0.0305	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	42.9	<10	429	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.7	<3	37	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	8.02
Conductivity (µS/cm)	56
Volume Leachant (Litres)	0.893

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.095	**Natural Moisture Content (%)**	5.11
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	95.1
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976040
Sampled Date	09-May-2023
Customer Sample Ref.	TP64
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	0.842	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	9.29	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.00181	<0.0005	0.0181	<0.005	0.5	2	25
Barium	0.00172	<0.0002	0.0172	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000394	<0.0003	0.00394	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00352	<0.001	0.0352	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	42.6	<10	426	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	9.29
Conductivity (µS/cm)	61
Volume Leachant (Litres)	0.895

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.8
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976041
Sampled Date	09-May-2023
Customer Sample Ref.	TP65
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.71	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.55	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0006	<0.0002	0.006	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000945	<0.0003	0.00945	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000454	<0.0004	0.00454	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00207	<0.001	0.0207	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	56	<10	560	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.32	<3	43.2	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.77
Conductivity (µS/cm)	77
Volume Leachant (Litres)	0.887

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	15.7
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.5
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976042
Sampled Date	09-May-2023
Customer Sample Ref.	TP66
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.441	3	5	6
Loss on Ignition (%)	2.94	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.78	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00273	<0.0002	0.0273	<0.002	20	100	300
Cadmium	0.000172	<0.00008	0.00172	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00269	<0.0003	0.0269	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00801	<0.003	0.0801	<0.03	0.5	10	30
Nickel	0.000906	<0.0004	0.00906	<0.004	0.4	10	40
Lead	0.000229	<0.0002	0.00229	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0348	<0.001	0.348	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	33.6	<10	336	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	9.38	<3	93.8	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.44
Conductivity (µS/cm)	44
Volume Leachant (Litres)	0.885

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.7
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976043
Sampled Date	09-May-2023
Customer Sample Ref.	TP68
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.343	3	5	6
Loss on Ignition (%)	2.56	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.58	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00168	<0.0002	0.0168	<0.002	20	100	300
Cadmium	0.000515	<0.00008	0.00515	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00187	<0.0003	0.0187	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000745	<0.0004	0.00745	<0.004	0.4	10	40
Lead	0.000378	<0.0002	0.00378	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00322	<0.001	0.0322	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	13.2	<10	132	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.05	<3	50.5	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.98
Conductivity (µS/cm)	26
Volume Leachant (Litres)	0.887

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.109	**Natural Moisture Content (%)**	19.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.5
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976044
Sampled Date	09-May-2023
Customer Sample Ref.	TP69
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.302	3	5	6
Loss on Ignition (%)	2.37	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.02	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Conc^n in 10:1 eluate (mg/l)**		**A_2 10:1 conc^n leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000743	<0.0002	0.00743	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00118	<0.0003	0.0118	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000263	<0.00001	0.000263	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000519	<0.0004	0.00519	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00173	<0.001	0.0173	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	11.3	<10	113	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.96	<3	49.6	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.89
Conductivity (µS/cm)	15
Volume Leachant (Litres)	0.882

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	14.7
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	87.2
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976045
Sampled Date	09-May-2023
Customer Sample Ref.	TP3
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.306	3	5	6
Loss on Ignition (%)	2.42	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.21	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000873	<0.0002	0.00873	<0.002	20	100	300
Cadmium	0.000147	<0.00008	0.00147	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00165	<0.0003	0.0165	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000123	<0.00001	0.000123	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.001	<0.0004	0.01	<0.004	0.4	10	40
Lead	0.000487	<0.0002	0.00487	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.1	<0.001	1	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	14.2	<10	142	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.5	<3	75	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.74
Conductivity (µS/cm)	21
Volume Leachant (Litres)	0.887

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.108	**Natural Moisture Content (%)**	19.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.9
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976046
Sampled Date	09-May-2023
Customer Sample Ref.	TP4
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.24	3	5	6
Loss on Ignition (%)	2.42	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.68	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00104	<0.0002	0.0104	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00218	<0.0003	0.0218	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000955	<0.0004	0.00955	<0.004	0.4	10	40
Lead	0.000327	<0.0002	0.00327	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00353	<0.001	0.0353	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	11.2	<10	112	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.44	<3	44.4	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.97
Conductivity (µS/cm)	17
Volume Leachant (Litres)	0.883

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.108	**Natural Moisture Content (%)**	20.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976047
Sampled Date	09-May-2023
Customer Sample Ref.	TP5
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.25	3	5	6
Loss on Ignition (%)	2.44	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.93	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00065	<0.0002	0.0065	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00107	<0.0003	0.0107	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	0.000429	<0.0002	0.00429	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00136	<0.001	0.0136	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	11.1	<10	111	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.54	<3	55.4	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.94
Conductivity (µS/cm)	18
Volume Leachant (Litres)	0.882

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.110	**Natural Moisture Content (%)**	22.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	81.6
Particle Size <4mm	>95%		

Case	
SDG	230511-79
Lab Sample Number(s)	27976048
Sampled Date	09-May-2023
Customer Sample Ref.	TP7
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.322	3	5	6
Loss on Ignition (%)	2.56	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.3	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2** Concⁿ in 10:1 eluate (mg/l)		**A_2** 10:1 concⁿ leached (mg/kg)		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000548	<0.0005	0.00548	<0.005	0.5	2	25
Barium	0.00287	<0.0002	0.0287	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00187	<0.0003	0.0187	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00153	<0.0004	0.0153	<0.004	0.4	10	40
Lead	0.00101	<0.0002	0.0101	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00681	<0.001	0.0681	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	31.9	<10	319	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.71	<3	57.1	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.97
Conductivity (µS/cm)	43
Volume Leachant (Litres)	0.880

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

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115	Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	Determination of Loss on Ignition
TM089	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Determination of Fluoride using the Kone Analyser
TM116	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	The Determination of Total Dissolved Solids in Water
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Determination of Hexavalent Chromium using Kone analyser
TM152	Analysis of Aqueous Samples by ICP-MS
TM168	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM181	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	The determination of PAH in soil samples by GC-MS
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM410	Determination of Coronene in soils by GCMS
TM414	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID
TM415	Determination of Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Test Completion Dates

Lab Sample No(s)	27976045	27976046	27976047	27976048	27976000	27976001	27976002	27976003	27976004	27976005
Customer Sample Ref.	TP3	TP4	TP5	TP7	TP31	TP34	TP37	TP38	TP39	TP42
AGS Ref.										
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	18-May-2023	18-May-2023	17-May-2023	18-May-2023	16-May-2023	16-May-2023	16-May-2023	17-May-2023	18-May-2023	16-May-2023
CEN 10:1 Leachate (1 Stage)	13-May-2023	13-May-2023	19-May-2023	13-May-2023	13-May-2023	14-May-2023	14-May-2023	13-May-2023	13-May-2023	13-May-2023
CEN Readings	26-May-2023	26-May-2023	26-May-2023	27-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	27-May-2023	26-May-2023
Chromium III	22-May-2023	22-May-2023	25-May-2023	21-May-2023	25-May-2023	25-May-2023	25-May-2023	19-May-2023	25-May-2023	25-May-2023
Coronene	18-May-2023	18-May-2023	23-May-2023	18-May-2023	24-May-2023	23-May-2023	18-May-2023	23-May-2023	18-May-2023	18-May-2023
Dissolved Metals by ICP-MS	25-May-2023	30-May-2023	25-May-2023	26-May-2023	19-May-2023	18-May-2023	18-May-2023	26-May-2023	26-May-2023	19-May-2023
Dissolved Organic/Inorganic Carbon	22-May-2023	19-May-2023	19-May-2023	22-May-2023	25-May-2023	16-May-2023	25-May-2023	22-May-2023	24-May-2023	25-May-2023
EPH by GCxGC-FID	16-May-2023	16-May-2023	18-May-2023	16-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023
EPH CWG GC (S)	16-May-2023	16-May-2023	18-May-2023	16-May-2023	17-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023
Fluoride	27-May-2023	27-May-2023	27-May-2023	27-May-2023	30-May-2023	30-May-2023	27-May-2023	27-May-2023	27-May-2023	30-May-2023
GRO by GC-FID (S)	18-May-2023	19-May-2023	18-May-2023	18-May-2023	19-May-2023	15-May-2023	15-May-2023	15-May-2023	15-May-2023	16-May-2023
Hexavalent Chromium (s)	18-May-2023	18-May-2023	25-May-2023	18-May-2023	25-May-2023	25-May-2023	25-May-2023	18-May-2023	25-May-2023	25-May-2023
Loss on Ignition in soils	24-May-2023	24-May-2023	24-May-2023	24-May-2023	25-May-2023	19-May-2023	23-May-2023	19-May-2023	24-May-2023	19-May-2023
Mercury Dissolved	22-May-2023	22-May-2023	24-May-2023	22-May-2023	17-May-2023	17-May-2023	17-May-2023	22-May-2023	22-May-2023	17-May-2023
Metals in solid samples by OES	22-May-2023	22-May-2023	17-May-2023	22-May-2023	22-May-2023	19-May-2023	22-May-2023	19-May-2023	22-May-2023	19-May-2023
Moisture at 105C	13-May-2023	13-May-2023	13-May-2023	12-May-2023	12-May-2023	13-May-2023	13-May-2023	12-May-2023	12-May-2023	12-May-2023
PAH 16 & 17 Calc	21-May-2023	19-May-2023	23-May-2023	19-May-2023	24-May-2023	23-May-2023	19-May-2023	23-May-2023	19-May-2023	19-May-2023
PAH by GCMS	19-May-2023	18-May-2023	22-May-2023	19-May-2023	23-May-2023	22-May-2023	19-May-2023	22-May-2023	19-May-2023	19-May-2023
PCBs by GCMS	18-May-2023	19-May-2023	22-May-2023	18-May-2023	25-May-2023	22-May-2023	18-May-2023	22-May-2023	18-May-2023	18-May-2023
pH	18-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023	17-May-2023	18-May-2023	18-May-2023
pH Value of Filtered Water	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023
Phenols by HPLC (W)	19-May-2023	22-May-2023	18-May-2023	22-May-2023	18-May-2023	17-May-2023	17-May-2023	19-May-2023	22-May-2023	18-May-2023
Sample description	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023
Total Dissolved Solids on Leachates	22-May-2023	22-May-2023	22-May-2023	22-May-2023	16-May-2023	16-May-2023	16-May-2023	22-May-2023	22-May-2023	16-May-2023
Total Organic Carbon	24-May-2023	25-May-2023	16-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	24-May-2023	24-May-2023
TPH CWG GC (S)	18-May-2023	19-May-2023	18-May-2023	18-May-2023	19-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023
VOC MS (S)	17-May-2023	17-May-2023	18-May-2023	18-May-2023	16-May-2023	15-May-2023	15-May-2023	15-May-2023	15-May-2023	16-May-2023

Lab Sample No(s)	27976006	27976007	27976008	27976036	27976037	27976038	27976039	27976040	27976041	27976042
Customer Sample Ref.	TP44	TP45	TP46	TP60	TP61	TP62	TP63	TP64	TP65	TP66
AGS Ref.										
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	16-May-2023	16-May-2023	17-May-2023	16-May-2023	17-May-2023	16-May-2023	17-May-2023	17-May-2023	16-May-2023	16-May-2023
CEN 10:1 Leachate (1 Stage)	13-May-2023	13-May-2023	19-May-2023	13-May-2023	13-May-2023	13-May-2023	19-May-2023	13-May-2023	13-May-2023	13-May-2023
CEN Readings	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	27-May-2023	26-May-2023	27-May-2023
Chromium III	19-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023
Coronene	18-May-2023	23-May-2023	24-May-2023	23-May-2023	23-May-2023	18-May-2023	23-May-2023	18-May-2023	23-May-2023	18-May-2023
Dissolved Metals by ICP-MS	19-May-2023	19-May-2023	25-May-2023	19-May-2023	25-May-2023	19-May-2023	25-May-2023	26-May-2023	19-May-2023	19-May-2023
Dissolved Organic/Inorganic Carbon	25-May-2023	25-May-2023	18-May-2023	18-May-2023	25-May-2023	25-May-2023	18-May-2023	25-May-2023	25-May-2023	25-May-2023
EPH by GCxGC-FID	16-May-2023	18-May-2023	18-May-2023	17-May-2023	17-May-2023	16-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023
EPH CWG GC (S)	17-May-2023	17-May-2023	17-May-2023	18-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023
Fluoride	30-May-2023	30-May-2023	27-May-2023	30-May-2023	27-May-2023	30-May-2023	27-May-2023	27-May-2023	30-May-2023	30-May-2023
GRO by GC-FID (S)	19-May-2023	19-May-2023	19-May-2023	19-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
Hexavalent Chromium (s)	18-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023
Loss on Ignition in soils	25-May-2023	25-May-2023	24-May-2023	24-May-2023	25-May-2023	24-May-2023	24-May-2023	25-May-2023	24-May-2023	24-May-2023
Mercury Dissolved	17-May-2023	17-May-2023	24-May-2023	17-May-2023	22-May-2023	17-May-2023	24-May-2023	22-May-2023	17-May-2023	17-May-2023
Metals in solid samples by OES	22-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023
Moisture at 105C	12-May-2023	12-May-2023	13-May-2023	12-May-2023	13-May-2023	12-May-2023	13-May-2023	13-May-2023	12-May-2023	12-May-2023
PAH 16 & 17 Calc	19-May-2023	23-May-2023	24-May-2023	23-May-2023	23-May-2023	18-May-2023	23-May-2023	19-May-2023	23-May-2023	18-May-2023
PAH by GCMS	19-May-2023	22-May-2023	23-May-2023	19-May-2023	22-May-2023	18-May-2023	22-May-2023	18-May-2023	22-May-2023	18-May-2023
PCBs by GCMS	18-May-2023	22-May-2023	25-May-2023	22-May-2023	22-May-2023	19-May-2023	22-May-2023	19-May-2023	22-May-2023	19-May-2023
pH	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
pH Value of Filtered Water	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023
Phenols by HPLC (W)	18-May-2023	17-May-2023	18-May-2023	18-May-2023	19-May-2023	18-May-2023	18-May-2023	19-May-2023	18-May-2023	17-May-2023
Sample description	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023
Total Dissolved Solids on Leachates	16-May-2023	16-May-2023	22-May-2023	16-May-2023	22-May-2023	16-May-2023	22-May-2023	22-May-2023	16-May-2023	16-May-2023
Total Organic Carbon	25-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023	25-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023
TPH CWG GC (S)	19-May-2023	19-May-2023	19-May-2023	19-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
VOC MS (S)	16-May-2023	16-May-2023	16-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023

Validated

CERTIFICATE OF ANALYSIS

SDG: 230511-79 **Report Number:** 690936 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington

Lab Sample No(s)	27976043	27976044	27976020	27976022	27976024	27976025	27976027	27976029	27976030	27976031
Customer Sample Ref.	TP68	TP69	TP70	TP71	TP74	TP77	TP78	TP80	TP82	TP85
AGS Ref.										
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	17-May-2023	17-May-2023	18-May-2023	17-May-2023	16-May-2023	17-May-2023	17-May-2023	16-May-2023	16-May-2023	17-May-2023
CEN 10:1 Leachate (1 Stage)	19-May-2023	13-May-2023	13-May-2023	19-May-2023	14-May-2023	13-May-2023	19-May-2023	13-May-2023	13-May-2023	13-May-2023
CEN Readings	26-May-2023	27-May-2023	26-May-2023	26-May-2023	27-May-2023	27-May-2023	26-May-2023	26-May-2023	26-May-2023	27-May-2023
Chromium III		25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	21-May-2023	25-May-2023	25-May-2023
Coronene		18-May-2023	18-May-2023	24-May-2023	24-May-2023	18-May-2023	18-May-2023	18-May-2023	24-May-2023	23-May-2023
Dissolved Metals by ICP-MS	25-May-2023	26-May-2023	30-May-2023	25-May-2023	18-May-2023	25-May-2023	25-May-2023	19-May-2023	18-May-2023	26-May-2023
Dissolved Organic/Inorganic Carbon	19-May-2023	19-May-2023	19-May-2023	18-May-2023	16-May-2023	22-May-2023	19-May-2023	18-May-2023	16-May-2023	19-May-2023
EPH by GCxGC-FID		18-May-2023	17-May-2023	17-May-2023	16-May-2023	18-May-2023	18-May-2023	17-May-2023	17-May-2023	18-May-2023
EPH CWG GC (S)		18-May-2023	18-May-2023	16-May-2023	16-May-2023	17-May-2023	17-May-2023	16-May-2023	17-May-2023	16-May-2023
Fluoride	27-May-2023	27-May-2023	27-May-2023	27-May-2023	30-May-2023	27-May-2023	27-May-2023	30-May-2023	30-May-2023	27-May-2023
GRO by GC-FID (S)		18-May-2023	18-May-2023	19-May-2023	19-May-2023	15-May-2023	15-May-2023	19-May-2023	19-May-2023	19-May-2023
Hexavalent Chromium (s)		25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	18-May-2023	25-May-2023	25-May-2023
Loss on Ignition in soils		25-May-2023	24-May-2023	24-May-2023	19-May-2023	19-May-2023	24-May-2023	24-May-2023	19-May-2023	25-May-2023
Mercury Dissolved	24-May-2023	22-May-2023	22-May-2023	24-May-2023	17-May-2023	22-May-2023	24-May-2023	17-May-2023	17-May-2023	22-May-2023
Metals in solid samples by OES	19-May-2023	22-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	22-May-2023	22-May-2023	19-May-2023	22-May-2023
Moisture at 105C	12-May-2023	13-May-2023	12-May-2023	12-May-2023	13-May-2023	12-May-2023	12-May-2023	12-May-2023	13-May-2023	13-May-2023
PAH 16 & 17 Calc		19-May-2023	19-May-2023	24-May-2023	24-May-2023	21-May-2023	19-May-2023	19-May-2023	24-May-2023	23-May-2023
PAH by GCMS		18-May-2023	18-May-2023	23-May-2023	23-May-2023	19-May-2023	19-May-2023	19-May-2023	23-May-2023	22-May-2023
PCBs by GCMS		19-May-2023	19-May-2023	25-May-2023	25-May-2023	18-May-2023	18-May-2023	18-May-2023	25-May-2023	22-May-2023
pH		18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023
pH Value of Filtered Water	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023
Phenols by HPLC (W)	18-May-2023	19-May-2023	22-May-2023	18-May-2023	17-May-2023	19-May-2023	18-May-2023	18-May-2023	17-May-2023	19-May-2023
Sample description		12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023
Total Dissolved Solids on Leachates	22-May-2023	22-May-2023	22-May-2023	22-May-2023	16-May-2023	22-May-2023	22-May-2023	16-May-2023	16-May-2023	22-May-2023
Total Organic Carbon	24-May-2023	24-May-2023	24-May-2023	25-May-2023	24-May-2023	24-May-2023	25-May-2023	24-May-2023	24-May-2023	24-May-2023
TPH CWG GC (S)		18-May-2023	18-May-2023	19-May-2023	19-May-2023	17-May-2023	17-May-2023	19-May-2023	19-May-2023	19-May-2023
VOC MS (S)		18-May-2023	18-May-2023	16-May-2023	15-May-2023	15-May-2023	15-May-2023	16-May-2023	16-May-2023	16-May-2023

Lab Sample No(s)	27976035	27976009	27976011	27976012	27976013	27976015	27976016	27976017	27976018	27976019
Customer Sample Ref.	TP87	TP91	TP92	TP93	TP94	TP95	TP97	TP106	TP109	TP112
AGS Ref.										
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	16-May-2023	17-May-2023	16-May-2023	16-May-2023	16-May-2023	17-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023
CEN 10:1 Leachate (1 Stage)	13-May-2023	19-May-2023	13-May-2023	13-May-2023	14-May-2023	19-May-2023	13-May-2023	13-May-2023	13-May-2023	13-May-2023
CEN Readings	26-May-2023	26-May-2023	26-May-2023	27-May-2023	26-May-2023	26-May-2023	26-May-2023	27-May-2023	26-May-2023	27-May-2023
Chromium III	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	21-May-2023	25-May-2023
Coronene	24-May-2023	24-May-2023	23-May-2023	24-May-2023	23-May-2023	23-May-2023	23-May-2023	18-May-2023	18-May-2023	18-May-2023
Dissolved Metals by ICP-MS	18-May-2023	25-May-2023	19-May-2023	19-May-2023	19-May-2023	25-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023
Dissolved Organic/Inorganic Carbon	16-May-2023	19-May-2023	18-May-2023	24-May-2023	16-May-2023	18-May-2023	22-May-2023	18-May-2023	18-May-2023	22-May-2023
EPH by GCxGC-FID	18-May-2023	17-May-2023	17-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	16-May-2023	16-May-2023	16-May-2023
EPH CWG GC (S)	17-May-2023	18-May-2023	17-May-2023	16-May-2023	17-May-2023	17-May-2023	17-May-2023	16-May-2023	18-May-2023	16-May-2023
Fluoride	30-May-2023	27-May-2023	30-May-2023	30-May-2023	30-May-2023	27-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023
GRO by GC-FID (S)	19-May-2023	18-May-2023	18-May-2023	19-May-2023		19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023
Hexavalent Chromium (s)	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	18-May-2023	25-May-2023
Loss on Ignition in soils	19-May-2023	19-May-2023	24-May-2023	19-May-2023	24-May-2023	19-May-2023	19-May-2023	24-May-2023	24-May-2023	25-May-2023
Mercury Dissolved	17-May-2023	24-May-2023	17-May-2023	17-May-2023	17-May-2023	25-May-2023	17-May-2023	17-May-2023	17-May-2023	17-May-2023
Metals in solid samples by OES	19-May-2023	19-May-2023	19-May-2023	19-May-2023	22-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023
Moisture at 105C	12-May-2023	12-May-2023	12-May-2023	12-May-2023	13-May-2023	12-May-2023	13-May-2023	13-May-2023	13-May-2023	13-May-2023
PAH 16 & 17 Calc	24-May-2023	24-May-2023	23-May-2023	24-May-2023	23-May-2023	23-May-2023	23-May-2023	19-May-2023	19-May-2023	19-May-2023
PAH by GCMS	23-May-2023	24-May-2023	22-May-2023	23-May-2023	19-May-2023	22-May-2023	22-May-2023	19-May-2023	18-May-2023	19-May-2023
PCBs by GCMS	25-May-2023	25-May-2023	22-May-2023	25-May-2023	22-May-2023	22-May-2023	22-May-2023	18-May-2023	19-May-2023	18-May-2023
pH	18-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
pH Value of Filtered Water	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023
Phenols by HPLC (W)	17-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023
Sample description	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023
Total Dissolved Solids on Leachates	16-May-2023	22-May-2023	16-May-2023	16-May-2023	16-May-2023	22-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023
Total Organic Carbon	24-May-2023	24-May-2023	25-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023	25-May-2023	24-May-2023
TPH CWG GC (S)	19-May-2023	18-May-2023	18-May-2023	19-May-2023	17-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023
VOC MS (S)	16-May-2023	18-May-2023	18-May-2023	15-May-2023		16-May-2023	15-May-2023	16-May-2023	16-May-2023	16-May-2023

SDG:	230511-79	**Report Number:**	690936	**Superseded Report:**	
Client Ref:	6100	**Location:**	Blessington		

Appendix

General

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

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

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

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

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

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

7. Results relate only to the items tested.

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

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

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

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

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury.

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

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

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

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

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

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

19. **Sample Deviations**

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

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

20. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials andd soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

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

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

Visual Estimation Of Fibre Content

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

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

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

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

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Site Investigations Ltd
The Grange
Carhugar
12th Lock Road
Lucan
Co. Dublin

Attention: Stephen Letch

CERTIFICATE OF ANALYSIS

Date of report Generation:	01 June 2023
Customer:	Site Investigations Ltd
Sample Delivery Group (SDG):	230601-72
Your Reference:	6100
Location:	Blessington
Report No:	690995
Order Number:	22/A/23

This report has been revised and directly supersedes 690968 in its entirety.

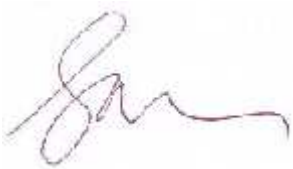
We received 40 samples on Thursday May 11, 2023 and 40 of these samples were scheduled for analysis which was completed on Wednesday May 31, 2023. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:



Sonia McWhan
Operations Manager

1291

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
27976050	TP13		0.50 - 0.50	09/05/2023
27976052	TP14		0.50 - 0.50	09/05/2023
27976053	TP19		0.50 - 0.50	09/05/2023
27976054	TP25		0.50 - 0.50	09/05/2023
27976055	TP29		0.50 - 0.50	09/05/2023
27976095	TP47		0.50 - 0.50	09/05/2023
27976097	TP48		0.50 - 0.50	09/05/2023
27976098	TP50		0.50 - 0.50	09/05/2023
27976099	TP51		0.50 - 0.50	09/05/2023
27976100	TP52		0.50 - 0.50	09/05/2023
27976101	TP54		0.50 - 0.50	09/05/2023
27976102	TP55		0.50 - 0.50	09/05/2023
27976103	TP56		0.50 - 0.50	09/05/2023
27976104	TP57		0.50 - 0.50	09/05/2023
27976065	TP115		0.50 - 0.50	09/05/2023
27976068	TP116		0.50 - 0.50	09/05/2023
27976069	TP121		0.50 - 0.50	09/05/2023
27976070	TP122		0.50 - 0.50	09/05/2023
27976071	TP123		0.50 - 0.50	09/05/2023
27976073	TP127		0.50 - 0.50	09/05/2023
27976074	TP128		0.50 - 0.50	09/05/2023
27976075	TP132		0.50 - 0.50	09/05/2023
27976076	TP133		0.50 - 0.50	09/05/2023
27976079	TP135		0.50 - 0.50	09/05/2023
27976081	TP139		0.50 - 0.50	09/05/2023
27976083	TP145		0.50 - 0.50	09/05/2023
27976085	TP148		0.50 - 0.50	09/05/2023
27976087	TP149		0.50 - 0.50	09/05/2023
27976089	TP153		0.50 - 0.50	09/05/2023
27976091	TP156		0.50 - 0.50	09/05/2023
27976092	TP158		0.50 - 0.50	09/05/2023
27976094	TP159		0.50 - 0.50	09/05/2023
27976056	TP160		0.50 - 0.50	09/05/2023
27976057	TP162		0.50 - 0.50	09/05/2023
27976058	TP163		0.50 - 0.50	09/05/2023
27976059	TP164		0.50 - 0.50	09/05/2023
27976060	TP166		0.50 - 0.50	09/05/2023
27976061	TP167		0.50 - 0.50	09/05/2023
27976062	TP172		0.50 - 0.50	09/05/2023
27976064	TP173		0.50 - 0.50	09/05/2023

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

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	27976050			27976052			27976053			27976054			27976055			27976095		27976097	
			Customer Sample Reference	TP13			TP14			TP19			TP25			TP29			TP47		TP48	
			AGS Reference																			
			Depth (m)	0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50		0.50 - 0.50	
			Container	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Anions by Kone (w)	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X	
CEN Readings	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X	
Chromium III	All	NDPs: 0 Tests: 40			X			X			X			X			X		X			X
Coronene	All	NDPs: 0 Tests: 40			X			X			X			X			X		X			X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X	
EPH by GCxGC-FID	All	NDPs: 0 Tests: 40			X			X			X			X			X		X			X
EPH CWG GC (S)	All	NDPs: 0 Tests: 40			X			X			X			X			X		X			X
Fluoride	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 40				X			X			X			X			X		X		
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 40			X			X			X			X			X		X			X
Loss on Ignition in soils	All	NDPs: 0 Tests: 40			X			X			X			X			X		X			X
Mercury Dissolved	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 40			X			X			X			X			X		X			X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 40			X			X			X			X			X		X			X

27976104	TP57		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976103	TP56		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976102	TP55		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976101	TP54		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976100	TP52		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976099	TP51		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S	x	x	x	x	x	x	x	x	x			x	x	x	x	x	x
27976098	TP50		0.50 - 0.50	60g VOC (ALE215)	S												x					
				250g Amber Jar (ALE210)	S			x	x			x	x				x	x			x	x
				1kg TUB with Handle (ALE260)	S	x	x			x	x			x						x		
27976097	TP48		0.50 - 0.50	60g VOC (ALE215)	S												x					

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			27976050	TP13		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976052	TP14		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976053	TP19		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976054	TP25		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976055	TP29		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976095	TP47		0.50 - 0.50	250g Amber Jar (ALE210)	S
							60g VOC (ALE215)	S
			27976097	TP48		0.50 - 0.50	1kg TUB with Handle (ALE260)	S
							250g Amber Jar (ALE210)	S
PAH by GCMS	All	NDPs: 0 Tests: 40		X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
PCBs by GCMS	All	NDPs: 0 Tests: 40		X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
pH	All	NDPs: 0 Tests: 40		X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
pH Value of Filtered Water	All	NDPs: 0 Tests: 40	X			X		
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
Phenols by HPLC (W)	All	NDPs: 0 Tests: 40	X			X		
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
Sample description	All	NDPs: 0 Tests: 40		X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
Total Dissolved Solids on Leachates	All	NDPs: 0 Tests: 40	X			X		
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
Total Organic Carbon	All	NDPs: 0 Tests: 40		X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 40		X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
				X				
							X	
VOC MS (S)	All	NDPs: 0 Tests: 40			X			
							X	
					X			
							X	
					X			
							X	
					X			
							X	
					X			
							X	
					X			
							X	
					X			
							X	

27976104	TP57		0.50 - 0.50	60g VOC (ALE215)	S													X
				250g Amber Jar (ALE210)	S	X		X		X				X			X	X	
				1kg TUB with Handle (ALE260)	S						X		X			X			
27976103	TP56		0.50 - 0.50	60g VOC (ALE215)	S													X
				250g Amber Jar (ALE210)	S	X		X		X				X			X	X	
				1kg TUB with Handle (ALE260)	S						X		X			X			
27976102	TP55		0.50 - 0.50	60g VOC (ALE215)	S													X
				250g Amber Jar (ALE210)	S	X		X		X				X			X	X	
				1kg TUB with Handle (ALE260)	S						X		X			X			
27976101	TP54		0.50 - 0.50	60g VOC (ALE215)	S													X
				250g Amber Jar (ALE210)	S	X		X		X				X			X	X	
				1kg TUB with Handle (ALE260)	S						X		X			X			
27976100	TP52		0.50 - 0.50	60g VOC (ALE215)	S													X
				250g Amber Jar (ALE210)	S	X		X		X				X			X	X	
				1kg TUB with Handle (ALE260)	S						X		X			X			
27976099	TP51		0.50 - 0.50	60g VOC (ALE215)	S													X
				250g Amber Jar (ALE210)	S	X		X		X		X		X		X	X	X	
27976098	TP50		0.50 - 0.50	60g VOC (ALE215)	S													X
				250g Amber Jar (ALE210)	S	X		X		X				X			X	X	
				1kg TUB with Handle (ALE260)	S						X		X			X			
27976097	TP48		0.50 - 0.50	60g VOC (ALE215)	S													X

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	27976065	27976068	27976069	27976070	27976071	27976073	27976074
			Customer Sample Reference	TP115	TP116	TP121	TP122	TP123	TP127	TP128
			AGS Reference							
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Container	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	250g Amber Jar (ALE210)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Anions by Kone (w)	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X
CEN Readings	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X
Chromium III	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	X
Coronene	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X
EPH by GCxGC-FID	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	X
EPH CWG GC (S)	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	X
Fluoride	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 40				X			X			X			X			X			X	
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	X
Loss on Ignition in soils	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	X
Mercury Dissolved	All	NDPs: 0 Tests: 40		X			X			X			X			X			X		X
Metals in solid samples by OES	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 40			X			X			X			X			X			X	X

27976087	TP149		0.50 - 0.50	250g Amber Jar (ALE210)	S				X	X			X	X			X	X		X	X	
				1kg TUB with Handle (ALE260)	S	X	X			X	X			X					X				
27976085	TP148		0.50 - 0.50	60g VOC (ALE215)	S											X							
				250g Amber Jar (ALE210)	S			X	X			X	X			X	X		X	X	
				1kg TUB with Handle (ALE260)	S	X	X			X	X			X					X				
27976083	TP145		0.50 - 0.50	60g VOC (ALE215)	S											X							
				250g Amber Jar (ALE210)	S			X	X			X	X			X	X		X	X	
				1kg TUB with Handle (ALE260)	S	X	X			X	X			X					X				
27976081	TP139		0.50 - 0.50	60g VOC (ALE215)	S											X							
				250g Amber Jar (ALE210)	S			X	X			X	X			X	X		X	X	
				1kg TUB with Handle (ALE260)	S	X	X			X	X			X					X				
27976079	TP135		0.50 - 0.50	60g VOC (ALE215)	S											X							
				250g Amber Jar (ALE210)	S			X	X			X	X			X	X		X	X	
				1kg TUB with Handle (ALE260)	S	X	X			X	X			X					X				
27976076	TP133		0.50 - 0.50	60g VOC (ALE215)	S											X							
				250g Amber Jar (ALE210)	S			X	X			X	X			X	X		X	X	
				1kg TUB with Handle (ALE260)	S	X	X			X	X			X					X				
27976075	TP132		0.50 - 0.50	60g VOC (ALE215)	S											X							
				250g Amber Jar (ALE210)	S			X	X			X	X			X	X		X	X	
				1kg TUB with Handle (ALE260)	S	X	X			X	X			X					X				
27976074	TP128		0.50 - 0.50	60g VOC (ALE215)	S											X							

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	27976065	27976068	27976069	27976070	27976071	27976073	27976074
			Customer Sample Reference	TP115	TP116	TP121	TP122	TP123	TP127	TP128
			AGS Reference							
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Container	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	250g Amber Jar (ALE210)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
PAH by GCMS	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		X
PCBs by GCMS	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		X
pH	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		X
pH Value of Filtered Water	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X		X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X		X
Sample description	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		X
Total Dissolved Solids on Leachates	All	NDPs: 0 Tests: 40	X			X			X			X			X			X			X		X
Total Organic Carbon	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		X
TPH CWG GC (S)	All	NDPs: 0 Tests: 40			X			X			X			X			X			X		X
VOC MS (S)	All	NDPs: 0 Tests: 40				X			X			X			X			X			X		

27976087	TP149		0.50 - 0.50	250g Amber Jar (ALE210)	S	X		X		X				X		X		X		
				1kg TUB with Handle (ALE260)	S						X		X				X			
27976085	TP148		0.50 - 0.50	60g VOC (ALE215)	S															X
				250g Amber Jar (ALE210)	S	X		X		X				X		X		X		
				1kg TUB with Handle (ALE260)	S						X		X				X			
27976083	TP145		0.50 - 0.50	60g VOC (ALE215)	S															X
				250g Amber Jar (ALE210)	S	X		X		X				X		X		X		
				1kg TUB with Handle (ALE260)	S						X		X				X			
27976081	TP139		0.50 - 0.50	60g VOC (ALE215)	S															X
				250g Amber Jar (ALE210)	S	X		X		X				X		X		X		
				1kg TUB with Handle (ALE260)	S						X		X				X			
27976079	TP135		0.50 - 0.50	60g VOC (ALE215)	S															X
				250g Amber Jar (ALE210)	S	X		X		X				X		X		X		
				1kg TUB with Handle (ALE260)	S						X		X				X			
27976076	TP133		0.50 - 0.50	60g VOC (ALE215)	S															X
				250g Amber Jar (ALE210)	S	X		X		X				X		X		X		
				1kg TUB with Handle (ALE260)	S						X		X				X			
27976075	TP132		0.50 - 0.50	60g VOC (ALE215)	S															X
				250g Amber Jar (ALE210)	S	X		X		X				X		X		X		
				1kg TUB with Handle (ALE260)	S						X		X				X			
27976074	TP128		0.50 - 0.50	60g VOC (ALE215)	S															X

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			27976087	27976089			27976091			27976092			27976094		27976056			27976057			27976058	
Customer Sample Reference			TP149	TP153			TP156			TP158			TP159		TP160			TP162			TP163	
AGS Reference																						
Depth (m)			0.50 - 0.50	0.50 - 0.50			0.50 - 0.50			0.50 - 0.50			0.50 - 0.50		0.50 - 0.50			0.50 - 0.50			0.50 - 0.50	
Container			60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	
Sample Type			S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Anions by Kone (w)	All	NDPs: 0 Tests: 40		X			X			X			X		X			X			X	
CEN Readings	All	NDPs: 0 Tests: 40		X			X			X			X		X			X			X	
Chromium III	All	NDPs: 0 Tests: 40			X			X			X		X			X			X			
Coronene	All	NDPs: 0 Tests: 40			X			X			X		X			X			X			
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 40		X			X			X			X		X			X			X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 40		X			X			X			X		X			X			X	
EPH by GCxGC-FID	All	NDPs: 0 Tests: 40			X			X			X		X			X			X			
EPH CWG GC (S)	All	NDPs: 0 Tests: 40			X			X			X		X			X			X			
Fluoride	All	NDPs: 0 Tests: 40		X			X			X			X		X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 40	X			X			X			X		X			X			X			
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 40			X			X			X		X			X			X			
Loss on Ignition in soils	All	NDPs: 0 Tests: 40			X			X			X		X			X			X			
Mercury Dissolved	All	NDPs: 0 Tests: 40		X			X			X			X		X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 40			X			X			X		X			X			X			
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 40			X			X			X		X			X			X			

27976064	TP173		0.50 - 0.50	60g VOC (ALE215)	S												X					
				250g Amber Jar (ALE210)	S			X		X			X		X				X		X		X		X
				1kg TUB with Handle (ALE260)	S	X		X			X		X				X					X			
27976062	TP172		0.50 - 0.50	60g VOC (ALE215)	S												X					
				250g Amber Jar (ALE210)	S			X		X			X		X				X		X		X		X
				1kg TUB with Handle (ALE260)	S	X		X			X		X				X					X			
27976061	TP167		0.50 - 0.50	60g VOC (ALE215)	S												X					
				250g Amber Jar (ALE210)	S			X		X			X		X				X		X		X		X
				1kg TUB with Handle (ALE260)	S	X		X			X		X				X					X			
27976060	TP166		0.50 - 0.50	60g VOC (ALE215)	S												X					
				250g Amber Jar (ALE210)	S			X		X			X		X				X		X		X		X
				1kg TUB with Handle (ALE260)	S	X		X			X		X				X					X			
27976059	TP164		0.50 - 0.50	60g VOC (ALE215)	S												X					
				250g Amber Jar (ALE210)	S			X		X			X		X				X		X		X		X
				1kg TUB with Handle (ALE260)	S	X		X			X		X				X					X			
27976058	TP163		0.50 - 0.50	60g VOC (ALE215)	S												X					
				250g Amber Jar (ALE210)	S			X		X			X		X				X		X		X		X

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
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SA - Saline Water
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TS - Treated Sewage
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Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	27976087	27976089	27976091	27976092	27976094	27976056	27976057	27976058
			Customer Sample Reference	TP149	TP153	TP156	TP158	TP159	TP160	TP162	TP163
			AGS Reference								
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Container	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
PAH by GCMS	All	NDPs: 0 Tests: 40				X			X			X		X			X			X	
PCBs by GCMS	All	NDPs: 0 Tests: 40				X			X			X		X			X			X	
pH	All	NDPs: 0 Tests: 40				X			X			X		X			X			X	
pH Value of Filtered Water	All	NDPs: 0 Tests: 40			X			X			X			X		X			X			X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 40			X			X			X			X		X			X			X
Sample description	All	NDPs: 0 Tests: 40				X			X			X		X			X			X	
Total Dissolved Solids on Leachates	All	NDPs: 0 Tests: 40			X			X			X			X		X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 40				X			X			X		X			X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 40				X			X			X		X			X			X	
VOC MS (S)	All	NDPs: 0 Tests: 40	X			X			X			X		X			X			X		

27976064	TP173		0.50 - 0.50	60g VOC (ALE215)	S												X
				250g Amber Jar (ALE210)	S	X	X	X			X		X	X		
				1kg TUB with Handle (ALE260)	S				X	X		X				
27976062	TP172		0.50 - 0.50	60g VOC (ALE215)	S												X
				250g Amber Jar (ALE210)	S	X	X	X			X		X	X		
				1kg TUB with Handle (ALE260)	S				X	X		X				
27976061	TP167		0.50 - 0.50	60g VOC (ALE215)	S												X
				250g Amber Jar (ALE210)	S	X	X	X			X		X	X		
				1kg TUB with Handle (ALE260)	S				X	X		X				
27976060	TP166		0.50 - 0.50	60g VOC (ALE215)	S												X
				250g Amber Jar (ALE210)	S	X	X	X			X		X	X		
				1kg TUB with Handle (ALE260)	S				X	X		X				
27976059	TP164		0.50 - 0.50	60g VOC (ALE215)	S												X
				250g Amber Jar (ALE210)	S	X	X	X			X		X	X		
				1kg TUB with Handle (ALE260)	S				X	X		X				
27976058	TP163		0.50 - 0.50	60g VOC (ALE215)	S												X
				250g Amber Jar (ALE210)	S	X	X	X			X		X	X		

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
27976050	TP13	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976052	TP14	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976053	TP19	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
27976054	TP25	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976055	TP29	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976095	TP47	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976097	TP48	0.50 - 0.50	Dark Brown	Sandy Loam	Vegetation	Stones
27976098	TP50	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976099	TP51	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
27976100	TP52	0.50 - 0.50	Light Brown	Sandy Loam	Stones	None
27976101	TP54	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	None
27976102	TP55	0.50 - 0.50	Light Brown	Sandy Loam	Stones	None
27976103	TP56	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976104	TP57	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	None
27976065	TP115	0.50 - 0.50	Dark Brown	Loamy Sand	Stones	None
27976068	TP116	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	None
27976069	TP121	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
27976070	TP122	0.50 - 0.50	Dark Brown	Sandy Loam	Vegetation	Stones
27976071	TP123	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
27976073	TP127	0.50 - 0.50	Dark Brown	Loamy Sand	Stones	Vegetation
27976074	TP128	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976075	TP132	0.50 - 0.50	Dark Brown	Sand	Stones	None
27976076	TP133	0.50 - 0.50	Dark Brown	Sand	Stones	None
27976079	TP135	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	None
27976081	TP139	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976083	TP145	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976085	TP148	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976087	TP149	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976089	TP153	0.50 - 0.50	Dark Brown	Sandy Loam	Vegetation	Stones
27976091	TP156	0.50 - 0.50	Dark Brown	Loamy Sand	Stones	Vegetation
27976092	TP158	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976094	TP159	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976056	TP160	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976057	TP162	0.50 - 0.50	Dark Brown	Loamy Sand	Stones	None
27976058	TP163	0.50 - 0.50	Dark Brown	Sandy Silt Loam	Stones	Vegetation
27976059	TP164	0.50 - 0.50	Dark Brown	Sandy Silt Loam	Stones	Vegetation
27976060	TP166	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
27976061	TP167	0.50 - 0.50	Light Brown	Sandy Silt Loam	Stones	Vegetation
27976062	TP172	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	None

			Colour	Description	Inclusions	Inclusions 2
27976064	TP173	0.50 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP13	TP14	TP19	TP25	TP29	TP47
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023 -	09/05/2023 -	09/05/2023 -	09/05/2023 -	09/05/2023 -	09/05/2023 -
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976050	27976052	27976053	27976054	27976055	27976095
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		16	12	17	17	20	13
Loss on ignition	<0.7 %	TM018		2.66 M	2.81 M	2.32 M	2.81 M	2.14 M	2.35 M
Organic Carbon, Total	<0.2 %	TM132		0.28 M	0.343 M	0.322 M	0.407 M	0.329 M	0.299 M
pH	1 pH Units	TM133		6.76 M	7.41 M	6.53 M	6.39 M	6.75 M	6.74 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		17.3	10.1	13.1	16	13.6	12.1
Antimony	<0.6 mg/kg	TM181		1.11 #	<0.6 #	0.833 #	0.603 #	0.912 #	1.52 #
Arsenic	<0.6 mg/kg	TM181		15.5 M	9.06 M	11.4 M	17.1 M	14.5 M	26.6 M
Barium	<0.6 mg/kg	TM181		56.5 #	36.6 #	52.5 #	43.3 #	55.4 #	44.8 #
Cadmium	<0.02 mg/kg	TM181		2.17 M	0.568 M	1.45 M	0.718 M	2.92 M	0.771 M
Chromium	<0.9 mg/kg	TM181		17.3 M	10.1 M	13.1 M	16 M	14.7 M	12.1 M
Copper	<1.4 mg/kg	TM181		25.7 M	8.85 M	17.3 M	22.4 M	21.2 M	20.6 M
Lead	<0.7 mg/kg	TM181		30 M	20.8 M	21.7 M	25.7 M	27.8 M	20.8 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		0.99 #	0.57 #	1.43 #	1.34 #	1.04 #	0.822 #
Nickel	<0.2 mg/kg	TM181		51.9 M	16.1 M	33.8 M	45.7 M	40 M	26.4 M
Selenium	<1 mg/kg	TM181		1.48 #	<1 #	1.37 #	1.01 #	1.71 #	1.49 #
Zinc	<1.9 mg/kg	TM181		123 M	64.8 M	86 M	108 M	114 M	96.9 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP48	TP50	TP51	TP52	TP54	TP55
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976097	27976098	27976099	27976100	27976101	27976102
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	15	17	14	13	11
Loss on ignition	<0.7 %	TM018		1.38 M	2.61 M	2.62 M	2.22 M	2.51 M	3.8 M
Organic Carbon, Total	<0.2 %	TM132		0.22 M	0.368 M	0.489 M	0.267 M	0.308 M	0.231 M
pH	1 pH Units	TM133		6.88 M	6.67 M	6.58 M	6.67 M	6.92 M	8.22 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		17.4	18.4	15.5	12.7	12.7	17.6
Antimony	<0.6 mg/kg	TM181		<0.6 #	1.24 #	1.09 #	<0.6 #	<0.6 #	0.774 #
Arsenic	<0.6 mg/kg	TM181		11.4 M	15.6 M	11.9 M	10.3 M	8.48 M	9.84 M
Barium	<0.6 mg/kg	TM181		74 #	51.6 #	49 #	34.4 #	69.6 #	40 #
Cadmium	<0.02 mg/kg	TM181		0.659 M	0.964 M	1.94 M	0.484 M	0.722 M	0.595 M
Chromium	<0.9 mg/kg	TM181		17.4 M	18.4 M	15.5 M	13.4 M	12.7 M	17.6 M
Copper	<1.4 mg/kg	TM181		17.6 M	19.9 M	19.2 M	11.1 M	13.6 M	12.4 M
Lead	<0.7 mg/kg	TM181		36.5 M	35.6 M	30.2 M	20.5 M	18.7 M	19.1 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		0.363 #	1.13 #	0.904 #	0.689 #	0.578 #	0.683 #
Nickel	<0.2 mg/kg	TM181		19.9 M	34.4 M	31.2 M	23 M	21.4 M	30.3 M
Selenium	<1 mg/kg	TM181		1.03 #	1.4 #	1.17 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		78.9 M	108 M	91.4 M	78.6 M	92.3 M	87.7 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP56	TP57	TP115	TP116	TP121	TP122
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976103	27976104	27976065	27976068	27976069	27976070
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	13	16	15	21	13
Loss on ignition	<0.7 %	TM018		2.11 M	1.75 M	2.2 M	1.69 M	2.17 M	1.87 M
Organic Carbon, Total	<0.2 %	TM132		0.229 M	0.216 M	0.281 M	<0.2 M	0.26 M	<0.2 M
pH	1 pH Units	TM133		7.95 M	8.7 M	7.36 M	8.77 M	6.84 M	6.11 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		16.2	13.3	15.4	15.7	14.4	14.3
Antimony	<0.6 mg/kg	TM181		1.8 #	0.838 #	0.681 #	0.849 #	1.34 #	<6 #
Arsenic	<0.6 mg/kg	TM181		8.92 M	12.2 M	12.3 M	14.5 M	19.7 M	17.1 M
Barium	<0.6 mg/kg	TM181		41.9 #	60.7 #	34.3 #	62.6 #	101 #	61.8 #
Cadmium	<0.02 mg/kg	TM181		0.993 M	2.85 M	1.14 M	2.5 M	4.66 M	0.822 M
Chromium	<0.9 mg/kg	TM181		20.4 M	13.3 M	15.4 M	15.7 M	14.4 M	14.3 M
Copper	<1.4 mg/kg	TM181		<14 M	25 M	16.6 M	27.8 M	25.2 M	19.9 M
Lead	<0.7 mg/kg	TM181		24.7 M	23.9 M	25.1 M	60.1 M	36.6 M	21.2 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<1 M
Molybdenum	<0.1 mg/kg	TM181		0.631 #	0.803 #	0.931 #	1 #	1.08 #	<1 #
Nickel	<0.2 mg/kg	TM181		27.2 M	43.8 M	35.8 M	38.3 M	44.9 M	43.4 M
Selenium	<1 mg/kg	TM181		<1 #	1.1 #	1.12 #	1.32 #	2.09 #	<10 #
Zinc	<1.9 mg/kg	TM181		90.1 M	109 M	104 M	181 M	137 M	97.9 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP123	TP127	TP128	TP132	TP133	TP135
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023 -	09/05/2023 -	09/05/2023 -	09/05/2023 -	09/05/2023 -	09/05/2023 -
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976071	27976073	27976074	27976075	27976076	27976079
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		17	22	17	5.7	8.5	12
Loss on ignition	<0.7 %	TM018		2.47 M	2.5 M	3.75 M	1.01 M	<0.7 M	1.43 M
Organic Carbon, Total	<0.2 %	TM132		0.347 M	0.453 M	0.637 M	<0.2 M	<0.2 M	0.255 M
pH	1 pH Units	TM133		7.57 M	8.64 M	6.25 M	9.09 M	9.02 M	8.48 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		15.8	14.6	14.8	8.41	6.34	13.3
Antimony	<0.6 mg/kg	TM181		0.904 #	0.885 #	0.931 #	<0.6 #	<0.6 #	0.729 #
Arsenic	<0.6 mg/kg	TM181		13.2 M	15.7 M	13.8 M	6.45 M	4.97 M	11 M
Barium	<0.6 mg/kg	TM181		43.7 #	84.2 #	42.5 #	21.5 #	16.1 #	52.2 #
Cadmium	<0.02 mg/kg	TM181		1.39 M	2.6 M	0.637 M	0.992 M	1.74 M	3.04 M
Chromium	<0.9 mg/kg	TM181		15.8 M	14.6 M	14.8 M	8.41 M	6.34 M	13.3 M
Copper	<1.4 mg/kg	TM181		16.7 M	18.6 M	15.3 M	9.61 M	8.39 M	18.7 M
Lead	<0.7 mg/kg	TM181		24.2 M	20.8 M	26.9 M	15.5 M	7.9 M	20.9 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		1.01 #	1.12 #	0.994 #	0.47 #	0.311 #	0.679 #
Nickel	<0.2 mg/kg	TM181		33.3 M	36.4 M	23 M	14.9 M	14.3 M	41.4 M
Selenium	<1 mg/kg	TM181		1.13 #	1.42 #	1.34 #	<1 #	<1 #	1.29 #
Zinc	<1.9 mg/kg	TM181		100 M	98.4 M	84.4 M	53.1 M	128 M	112 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

Validated

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP139	TP145	TP148	TP149	TP153	TP156
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976081	27976083	27976085	27976087	27976089	27976091
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		16	14	17	26	14	5.8
Loss on ignition	<0.7 %	TM018		1.79 M	2.48 M	3.19 M	2.4 M	1.48 M	1.17 M
Organic Carbon, Total	<0.2 %	TM132		<0.2 M	0.398 M	0.404 M	0.273 M	<0.2 M	<0.2 M
pH	1 pH Units	TM133		7.76 M	6.26 M	6.44 M	7.02 M	6.98 M	8.94 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		14.5	16.4	15.3	17.5	14.1	<0.9
Antimony	<0.6 mg/kg	TM181		1 #	<6 #	1.01 #	1.4 #	0.72 #	<6 #
Arsenic	<0.6 mg/kg	TM181		12.9 M	14.4 M	17.4 M	14.7 M	12.4 M	<6 M
Barium	<0.6 mg/kg	TM181		52.9 #	46 #	57.1 #	54.6 #	37 #	167 #
Cadmium	<0.02 mg/kg	TM181		3.76 M	0.562 M	1.49 M	1.94 M	2.59 M	0.568 M
Chromium	<0.9 mg/kg	TM181		15.5 M	16.4 M	16.7 M	18.4 M	14.2 M	<9 M
Copper	<1.4 mg/kg	TM181		22 M	20.2 M	23.1 M	20.7 M	16.5 M	<14 M
Lead	<0.7 mg/kg	TM181		22.7 M	27.2 M	33.3 M	31 M	21 M	12.3 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<1 M	<0.1 M	<0.1 M	<0.1 M	<1 M
Molybdenum	<0.1 mg/kg	TM181		1.04 #	1.16 #	1.04 #	1.08 #	0.93 #	<1 #
Nickel	<0.2 mg/kg	TM181		45.5 M	35.3 M	43.4 M	41.2 M	35.5 M	20.4 M
Selenium	<1 mg/kg	TM181		1.62 #	<10 #	1.76 #	1.41 #	1.41 #	<10 #
Zinc	<1.9 mg/kg	TM181		127 M	105 M	144 M	122 M	94.3 M	54 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP158	TP159	TP160	TP162	TP163	TP164
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976092	27976094	27976056	27976057	27976058	27976059
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		0	14	13	4.5	13	11
Loss on ignition	<0.7 %	TM018		2.08 M	2.79 M	2.31 M	0.956 M	2.59 M	1.84 M
Organic Carbon, Total	<0.2 %	TM132		0.25 M	0.382 M	0.309 M	0.206 M	0.335 M	0.25 M
pH	1 pH Units	TM133		6.38 M	6.7 M	7.05 M	9.18 M	8.57 M	7.84 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M	<0.6 M
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21	<21	<21
Chromium, Trivalent	<0.9 mg/kg	TM181		13.3	11	11.3	7.44	12.9	11.6
Antimony	<0.6 mg/kg	TM181		0.844 #	<6 #	<6 #	<0.6 #	1.05 #	<0.6 #
Arsenic	<0.6 mg/kg	TM181		12.8 M	6.01 M	18.5 M	6.9 M	11 M	11.5 M
Barium	<0.6 mg/kg	TM181		40.8 #	67.2 #	52.2 #	27 #	59.3 #	35.4 #
Cadmium	<0.02 mg/kg	TM181		0.642 M	0.351 M	1.6 M	0.738 M	1.98 M	1.48 M
Chromium	<0.9 mg/kg	TM181		13.3 M	11 M	11.3 M	7.44 M	12.9 M	11.6 M
Copper	<1.4 mg/kg	TM181		12.9 M	<14 M	17.2 M	11 M	15.8 M	17.3 M
Lead	<0.7 mg/kg	TM181		20.1 M	19.7 M	26.5 M	9.61 M	20.3 M	27.1 M
Mercury	<0.1 mg/kg	TM181		<0.1 M	<1 M	<1 M	<0.1 M	<0.1 M	<0.1 M
Molybdenum	<0.1 mg/kg	TM181		0.742 #	<1 #	<1 #	0.56 #	0.952 #	0.739 #
Nickel	<0.2 mg/kg	TM181		22.2 M	16 M	36.4 M	18.5 M	32.1 M	30.8 M
Selenium	<1 mg/kg	TM181		<1 #	<10 #	<10 #	<1 #	1.24 #	<1 #
Zinc	<1.9 mg/kg	TM181		91 M	76.2 M	106 M	51 M	114 M	93.3 M
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10	<10	<10
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200	<200	<200
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5	<5	<5

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP166	TP167	TP172	TP173		
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50		
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023		
			Sample Time	-	-	-	-		
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023		
			SDG Ref	230601-72	230601-72	230601-72	230601-72		
			Lab Sample No.(s)	27976060	27976061	27976062	27976064		
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	15	12	17		
Loss on ignition	<0.7 %	TM018		1.84 M	3.04 M	1.47 M	2.61 M		
Organic Carbon, Total	<0.2 %	TM132		0.283 M	0.329 M	<0.2 M	0.397 M		
pH	1 pH Units	TM133		8.39 M	6.63 M	8.49 M	6.46 M		
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 M	<0.6 M	<0.6 M	<0.6 M		
PCB congener 28	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 52	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 101	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 138	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 153	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
PCB congener 180	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M		
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21	<21	<21	<21		
Chromium, Trivalent	<0.9 mg/kg	TM181		10.7	19.1	12.6	14.3		
Antimony	<0.6 mg/kg	TM181		<0.6 #	1.24 #	0.921 #	0.779 #		
Arsenic	<0.6 mg/kg	TM181		9.73 M	15.1 M	10.3 M	12.6 M		
Barium	<0.6 mg/kg	TM181		55.4 #	49.9 #	70.7 #	71.2 #		
Cadmium	<0.02 mg/kg	TM181		1.26 M	0.713 M	2.94 M	1.28 M		
Chromium	<0.9 mg/kg	TM181		10.7 M	19.1 M	13.6 M	14.3 M		
Copper	<1.4 mg/kg	TM181		15.5 M	19.4 M	19 M	16.3 M		
Lead	<0.7 mg/kg	TM181		17.4 M	27.1 M	18.8 M	23 M		
Mercury	<0.1 mg/kg	TM181		<0.1 M	<0.1 M	<0.1 M	<0.1 M		
Molybdenum	<0.1 mg/kg	TM181		0.763 #	1.13 #	0.928 #	0.893 #		
Nickel	<0.2 mg/kg	TM181		23.2 M	35.9 M	38.1 M	27.5 M		
Selenium	<1 mg/kg	TM181		<1 #	1.15 #	1.24 #	1.37 #		
Zinc	<1.9 mg/kg	TM181		84.7 M	122 M	122 M	105 M		
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410		<10	<10	<10	<10		
Coronene	<200 µg/kg	TM410		<200	<200	<200	<200		
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415		<5	<5	<5	<5		

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

PAH by GCMS

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP13	TP14	TP19	TP25	TP29	TP47
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976050	27976052	27976053	27976054	27976055	27976095
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

PAH by GCMS

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP48	TP50	TP51	TP52	TP54	TP55
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976097	27976098	27976099	27976100	27976101	27976102
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

PAH by GCMS

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP56	TP57	TP115	TP116	TP121	TP122
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976103	27976104	27976065	27976068	27976069	27976070
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 ♦ M	<9 @ M	<9 @ M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 ♦ M	<12 @ M	<12 @ M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 ♦ M	<8 @ M	<8 @ M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 ♦ M	<10 @ M	<10 @ M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 ♦ M	<15 @ M	<15 @ M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 ♦ M	<16 @ M	<16 @ M	<16 M	24.1 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 ♦ M	<17 @ M	<17 @ M	<17 M	21.1 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 ♦ M	<15 @ M	<15 @ M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 ♦ M	<14 @ M	<14 @ M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 ♦ M	<10 @ M	<10 @ M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 ♦ M	<15 @ M	<15 @ M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 ♦ M	<14 @ M	<14 @ M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 ♦ M	<15 @ M	<15 @ M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 ♦ M	<18 @ M	<18 @ M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 ♦ M	<23 @ M	<23 @ M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 ♦ M	<24 @ M	<24 @ M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

PAH by GCMS

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP123	TP127	TP128	TP132	TP133	TP135
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976071	27976073	27976074	27976075	27976076	27976079
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

PAH by GCMS

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP139	TP145	TP148	TP149	TP153	TP156
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976081	27976083	27976085	27976087	27976089	27976091
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

PAH by GCMS

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP158	TP159	TP160	TP162	TP163	TP164
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976092	27976094	27976056	27976057	27976058	27976059
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M	<17 M	<17 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

PAH by GCMS

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP166	TP167	TP172	TP173		
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50		
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023		
			Sample Time	-	-	-	-		
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023		
			SDG Ref	230601-72	230601-72	230601-72	230601-72		
			Lab Sample No.(s)	27976060	27976061	27976062	27976064		
			AGS Reference						
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	<9 M		
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M		
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	<8 M		
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M		
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M		
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M		
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	<17 M		
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M		
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M		
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	<10 M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	<14 M		
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	<15 M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	<18 M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	<24 M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	<118	<118		

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP13	TP14	TP19	TP25	TP29	TP47
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976050	27976052	27976053	27976054	27976055	27976095
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		104	104	120	95.3	102	94.6
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	1460 #	1570 #	<1000 #	<1000 #	2200 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	1240 #	<1000 #	<1000 #	1290 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP48	TP50	TP51	TP52	TP54	TP55
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976097	27976098	27976099	27976100	27976101	27976102
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		92	130	116	99	104	98.4
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	2650 #	<1000 #	1220 #	1000 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP56	TP57	TP115	TP116	TP121	TP122
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976103	27976104	27976065	27976068	27976069	27976070
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		95.4	106	98.4	98.7	96.2	102
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		1330 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP123	TP127	TP128	TP132	TP133	TP135
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976071	27976073	27976074	27976075	27976076	27976079
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		124	100	97.4	95.5	101	121
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		1050 #	<1000 #	2170 #	<1000 #	<1000 #	<1000 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	1090 #	1320 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP139	TP145	TP148	TP149	TP153	TP156
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976081	27976083	27976085	27976087	27976089	27976091
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		96.7	99	105	101	98.7	96.1
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	1190 #	2170 #	<1000 #	<1000 #	<1000 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP158	TP159	TP160	TP162	TP163	TP164
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976092	27976094	27976056	27976057	27976058	27976059
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		102	81.8	95.6	106	99.9	102
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	2270 #	1180 #	<1000 #	<1000 #	<1000 #
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #	<1000 #	<1000 #
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000	<1000	<1000
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000	<5000	<5000
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000	<10000	<10000
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50	<50	<50
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20	<20	<20

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP166	TP167	TP172	TP173		
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50		
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023		
			Sample Time	-	-	-	-		
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023		
			SDG Ref	230601-72	230601-72	230601-72	230601-72		
			Lab Sample No.(s)	27976060	27976061	27976062	27976064		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		103	117	101	95.2		
Aliphatics >C5-C6 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C6-C8 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C8-C10 (HS_1D_AL)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1000 µg/kg	TM414		2440 #	<1000 #	<1000 #	<1000 #		
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000		
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000		
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000		
Aromatics >EC5-EC7 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >EC7-EC8 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >EC8-EC10 (HS_1D_AR)	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000 #	<1000 #	<1000 #	<1000 #		
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000		
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1000 µg/kg	TM414		<1000	<1000	<1000	<1000		
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5000 µg/kg	TM414		<5000	<5000	<5000	<5000		
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10000 µg/kg	TM414		<10000	<10000	<10000	<10000		
GRO >C5-C6 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
GRO >C6-C7 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
GRO >C7-C8 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
GRO >C8-C10 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
GRO >C10-C12 (HS_1D)	<20 µg/kg	TM089		<20	<20	<20	<20		
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50		
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<50 µg/kg	TM089		<50	<50	<50	<50		
GRO >C5-C10 (HS_1D_TOTAL)	<20 µg/kg	TM089		<20	<20	<20	<20		

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP13	TP14	TP19	TP25	TP29	TP47
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976050	27976052	27976053	27976054	27976055	27976095
			AGS Reference						
Dibromofluoromethane**	%	TM116		109	103	110	116	105	111
Toluene-d8**	%	TM116		99.6	98.6	99.5	106	98.7	102
4-Bromofluorobenzene**	%	TM116		96.2	87.3	93.9	75	93.4	86.8
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP48	TP50	TP51	TP52	TP54	TP55
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976097	27976098	27976099	27976100	27976101	27976102
			AGS Reference						
Dibromofluoromethane**	%	TM116		124	109	113	109	116	115
Toluene-d8**	%	TM116		100	98.3	96.1	99.5	99.4	100
4-Bromofluorobenzene**	%	TM116		92.5	89.8	85.3	89.9	81.5	86.9
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

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Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP56	TP57	TP115	TP116	TP121	TP122
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976103	27976104	27976065	27976068	27976069	27976070
			AGS Reference						
Dibromofluoromethane**	%	TM116		109	107	107	107	114	107
Toluene-d8**	%	TM116		101	99.7	101	101	101	97.8
4-Bromofluorobenzene**	%	TM116		89.5	92.8	97.2	98.4	85.1	96.3
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP123	TP127	TP128	TP132	TP133	TP135
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976071	27976073	27976074	27976075	27976076	27976079
			AGS Reference						
Dibromofluoromethane**	%	TM116		116	104	113	111	112	111
Toluene-d8**	%	TM116		100	98.2	99	102	94.5	99
4-Bromofluorobenzene**	%	TM116		94.8	103	77.7	87.5	90.6	85.1
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP139	TP145	TP148	TP149	TP153	TP156
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976081	27976083	27976085	27976087	27976089	27976091
			AGS Reference						
Dibromofluoromethane**	%	TM116		116	107	113	104	112	112
Toluene-d8**	%	TM116		100	97.8	99.9	107	97.7	98.3
4-Bromofluorobenzene**	%	TM116		88.9	86.6	85.5	93.8	100	95.2
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP158	TP159	TP160	TP162	TP163	TP164
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023	09/05/2023
			Sample Time	-	-	-	-	-	-
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023
			SDG Ref	230601-72	230601-72	230601-72	230601-72	230601-72	230601-72
			Lab Sample No.(s)	27976092	27976094	27976056	27976057	27976058	27976059
			AGS Reference						
Dibromofluoromethane**	%	TM116		112	110	118	107	107	105
Toluene-d8**	%	TM116		108	99.7	102	99.7	98.5	98
4-Bromofluorobenzene**	%	TM116		87.5	80.3	81.7	97.5	92.2	95.9
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG: 230601-72 **Report Number:** 690995 **Superseded Report:** 690968
Client Ref.: 6100 **Location:** Blessington

VOC MS (S)

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted - refer to subcontractor report for accreditation status.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP166	TP167	TP172	TP173		
			Depth (m)	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50		
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
			Date Sampled	09/05/2023	09/05/2023	09/05/2023	09/05/2023		
			Sample Time	-	-	-	-		
			Date Received	11/05/2023	11/05/2023	11/05/2023	11/05/2023		
			SDG Ref	230601-72	230601-72	230601-72	230601-72		
			Lab Sample No.(s)	27976060	27976061	27976062	27976064		
			AGS Reference						
Dibromofluoromethane**	%	TM116		117	113	105	107		
Toluene-d8**	%	TM116		98.2	99.4	96.9	98.6		
4-Bromofluorobenzene**	%	TM116		94.6	96.2	84	88.4		
Methyl Tertiary Butyl Ether	<0.5 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M		
Benzene	<1 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M		
Toluene	<1 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M		
Ethylbenzene	<1 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M		
p/m-Xylene	<2 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #		
o-Xylene	<2 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M		

Validated

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	17.1
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.4
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976050
Sampled Date	09-May-2023
Customer Sample Ref.	TP13
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.28	3	5	6
Loss on Ignition (%)	2.66	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.76	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000869	<0.0002	0.00869	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00135	<0.0003	0.0135	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000672	<0.0004	0.00672	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.002	<0.001	0.02	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	10.6	<10	106	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.79	<3	47.9	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.65
Conductivity (µS/cm)	15
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	18
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.8
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976052
Sampled Date	09-May-2023
Customer Sample Ref.	TP14
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.343	3	5	6
Loss on Ignition (%)	2.81	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.41	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0015	<0.0002	0.015	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00198	<0.0003	0.0198	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000989	<0.0004	0.00989	<0.004	0.4	10	40
Lead	0.00067	<0.0002	0.0067	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00187	<0.001	0.0187	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.655	<0.5	6.55	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	<10	<10	<100	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.51	<3	75.1	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.42
Conductivity (µS/cm)	35
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	16.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.8
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976053
Sampled Date	09-May-2023
Customer Sample Ref.	TP19
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.322	3	5	6
Loss on Ignition (%)	2.32	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.53	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0008	<0.0002	0.008	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00237	<0.0003	0.0237	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.000011	<0.00001	0.00011	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00126	<0.0004	0.0126	<0.004	0.4	10	40
Lead	0.000369	<0.0002	0.00369	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00452	<0.001	0.0452	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	13.4	<10	134	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.09	<3	40.9	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.87
Conductivity (µS/cm)	19
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.108	**Natural Moisture Content (%)**	19.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.4
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976054
Sampled Date	09-May-2023
Customer Sample Ref.	TP25
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.407	3	5	6
Loss on Ignition (%)	2.81	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.39	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000551	<0.0005	0.00551	<0.005	0.5	2	25
Barium	0.00139	<0.0002	0.0139	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0019	<0.0003	0.019	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00134	<0.0004	0.0134	<0.004	0.4	10	40
Lead	0.00105	<0.0002	0.0105	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00793	<0.001	0.0793	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	13.6	<10	136	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.48	<3	54.8	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.84
Conductivity (µS/cm)	18
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.108	**Natural Moisture Content (%)**	20.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.2
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976055
Sampled Date	09-May-2023
Customer Sample Ref.	TP29
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.329	3	5	6
Loss on Ignition (%)	2.14	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.75	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00126	<0.0002	0.0126	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00139	<0.0003	0.0139	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000629	<0.0004	0.00629	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	21	<10	210	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.49	<3	54.9	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.34
Conductivity (µS/cm)	28
Volume Leachant (Litres)	0.882

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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Validated

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.105	**Natural Moisture Content (%)**	16.7
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.7
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976056
Sampled Date	09-May-2023
Customer Sample Ref.	TP160
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.309	3	5	6
Loss on Ignition (%)	2.31	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.05	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00138	<0.0002	0.0138	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00264	<0.0003	0.0264	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000105	<0.00001	0.000105	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00103	<0.0004	0.0103	<0.004	0.4	10	40
Lead	0.000368	<0.0002	0.00368	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00182	<0.001	0.0182	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	17.8	<10	178	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.9	<3	59	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.05
Conductivity (µS/cm)	24
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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Validated

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.095	**Natural Moisture Content (%)**	6.3
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	94.1
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976057
Sampled Date	09-May-2023
Customer Sample Ref.	TP162
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.206	3	5	6
Loss on Ignition (%)	0.956	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	9.18	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.00137	<0.0005	0.0137	<0.005	0.5	2	25
Barium	0.00134	<0.0002	0.0134	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00183	<0.0003	0.0183	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00061	<0.0004	0.0061	<0.004	0.4	10	40
Lead	0.000219	<0.0002	0.00219	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00105	<0.001	0.0105	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	44.2	<10	442	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.21	<3	52.1	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	9.07
Conductivity (µS/cm)	61
Volume Leachant (Litres)	0.894

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	15.1
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.9
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976058
Sampled Date	09-May-2023
Customer Sample Ref.	TP163
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.335	3	5	6
Loss on Ignition (%)	2.59	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.57	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000946	<0.0002	0.00946	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000508	<0.0003	0.00508	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	54.8	<10	548	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.78	<3	37.8	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.82
Conductivity (µS/cm)	73
Volume Leachant (Litres)	0.887

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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.3
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.8
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976059
Sampled Date	09-May-2023
Customer Sample Ref.	TP164
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.25	3	5	6
Loss on Ignition (%)	1.84	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.84	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000649	<0.0005	0.00649	<0.005	0.5	2	25
Barium	0.00137	<0.0002	0.0137	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00155	<0.0003	0.0155	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000828	<0.0004	0.00828	<0.004	0.4	10	40
Lead	0.000217	<0.0002	0.00217	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00625	<0.001	0.0625	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	73.1	<10	731	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.81	<3	68.1	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.91
Conductivity (µS/cm)	98
Volume Leachant (Litres)	0.887

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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	14.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	87.4
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976060
Sampled Date	09-May-2023
Customer Sample Ref.	TP166
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.283	3	5	6
Loss on Ignition (%)	1.84	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.39	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000898	<0.0005	0.00898	<0.005	0.5	2	25
Barium	0.00208	<0.0002	0.0208	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00235	<0.0003	0.0235	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00123	<0.0004	0.0123	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0058	<0.001	0.058	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	87.7	<10	877	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.18	<3	71.8	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.99
Conductivity (µS/cm)	116
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	18.6
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.3
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976061
Sampled Date	09-May-2023
Customer Sample Ref.	TP167
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.329	3	5	6
Loss on Ignition (%)	3.04	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.63	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000565	<0.0002	0.00565	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00111	<0.0003	0.0111	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000562	<0.0004	0.00562	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	<0.001	<0.001	<0.01	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	20	<10	200	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.07	<3	40.7	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.29
Conductivity (µS/cm)	27
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	19
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976062
Sampled Date	09-May-2023
Customer Sample Ref.	TP172
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.47	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.49	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000637	<0.0005	0.00637	<0.005	0.5	2	25
Barium	0.0017	<0.0002	0.017	<0.002	20	100	300
Cadmium	0.000138	<0.00008	0.00138	<0.0008	0.04	1	5
Chromium	0.00101	<0.001	0.0101	<0.01	0.5	10	70
Copper	0.00194	<0.0003	0.0194	<0.003	2	50	100
Mercury Dissolved (CVAF)	0.0000252	<0.00001	0.000252	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00236	<0.0004	0.0236	<0.004	0.4	10	40
Lead	0.000367	<0.0002	0.00367	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00684	<0.001	0.0684	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	10.2	<10	102	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.72	<3	57.2	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.81
Conductivity (µS/cm)	15
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	18.6
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.3
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976064
Sampled Date	09-May-2023
Customer Sample Ref.	TP173
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.397	3	5	6
Loss on Ignition (%)	2.61	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.46	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00211	<0.0002	0.0211	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00158	<0.0003	0.0158	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00101	<0.0004	0.0101	<0.004	0.4	10	40
Lead	0.000358	<0.0002	0.00358	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00679	<0.001	0.0679	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	17.9	<10	179	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.75	<3	47.5	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.02
Conductivity (µS/cm)	24
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.105	**Natural Moisture Content (%)**	15.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.4
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976065
Sampled Date	09-May-2023
Customer Sample Ref.	TP115
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.281	3	5	6
Loss on Ignition (%)	2.2	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.36	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00119	<0.0002	0.0119	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00181	<0.0003	0.0181	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000751	<0.0004	0.00751	<0.004	0.4	10	40
Lead	0.000251	<0.0002	0.00251	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00273	<0.001	0.0273	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	-	-	-	-	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	29.7	<10	297	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.46	<3	34.6	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.55
Conductivity (µS/cm)	41
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	15.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.7
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976068
Sampled Date	09-May-2023
Customer Sample Ref.	TP116
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.69	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.77	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00088	<0.0002	0.0088	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000497	<0.0003	0.00497	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00059	<0.0004	0.0059	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00508	<0.001	0.0508	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	-	-	-	-	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	20.7	<10	207	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.1	<3	51	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.43
Conductivity (µS/cm)	24
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.110	**Natural Moisture Content (%)**	22.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	81.7
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976069
Sampled Date	09-May-2023
Customer Sample Ref.	TP121
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.26	3	5	6
Loss on Ignition (%)	2.17	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.84	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000504	<0.0002	0.00504	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00133	<0.0003	0.0133	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000644	<0.0004	0.00644	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00221	<0.001	0.0221	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	16	<10	160	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.33	<3	53.3	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.90
Conductivity (µS/cm)	21
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.6
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976070
Sampled Date	09-May-2023
Customer Sample Ref.	TP122
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.87	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.11	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.0006	<0.0002	0.006	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00132	<0.0003	0.0132	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000649	<0.0004	0.00649	<0.004	0.4	10	40
Lead	0.000273	<0.0002	0.00273	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00325	<0.001	0.0325	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	13.1	<10	131	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.58	<3	35.8	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.84
Conductivity (µS/cm)	17
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.111	**Natural Moisture Content (%)**	22.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	81.5
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976071
Sampled Date	09-May-2023
Customer Sample Ref.	TP123
Depth (m)	0.50 - 0.50

Solid Waste Analysis	Result	Landfill Waste Acceptance Criteria Limits: Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.347	3	5	6
Loss on Ignition (%)	2.47	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.57	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	C_2 Concⁿ in 10:1 eluate (mg/l)		A_2 10:1 concⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00134	<0.0002	0.0134	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00163	<0.0003	0.0163	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000837	<0.0004	0.00837	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00485	<0.001	0.0485	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	46.4	<10	464	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.98	<3	59.8	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.88
Conductivity (µS/cm)	63
Volume Leachant (Litres)	0.879

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.102	**Natural Moisture Content (%)**	13
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	88.5
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976073
Sampled Date	09-May-2023
Customer Sample Ref.	TP127
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.453	3	5	6
Loss on Ignition (%)	2.5	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.64	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000787	<0.0005	0.00787	<0.005	0.5	2	25
Barium	0.00247	<0.0002	0.0247	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000918	<0.0003	0.00918	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000588	<0.0004	0.00588	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00358	<0.001	0.0358	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	54.5	<10	545	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.22	<3	32.2	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	8.01
Conductivity (µS/cm)	76
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.110	**Natural Moisture Content (%)**	21.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	82.5
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976074
Sampled Date	09-May-2023
Customer Sample Ref.	TP128
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.637	3	5	6
Loss on Ignition (%)	3.75	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.25	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000549	<0.0005	0.00549	<0.005	0.5	2	25
Barium	0.0018	<0.0002	0.018	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00315	<0.0003	0.0315	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00123	<0.0004	0.0123	<0.004	0.4	10	40
Lead	0.000812	<0.0002	0.00812	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00184	<0.001	0.0184	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	26.3	<10	263	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.06	<3	50.6	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.88
Conductivity (µS/cm)	32
Volume Leachant (Litres)	0.880

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.097	**Natural Moisture Content (%)**	7.57
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	93
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976075
Sampled Date	09-May-2023
Customer Sample Ref.	TP132
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.01	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	9.09	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000797	<0.0005	0.00797	<0.005	0.5	2	25
Barium	0.0012	<0.0002	0.012	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0018	<0.0003	0.018	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000458	<0.0004	0.00458	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00292	<0.001	0.0292	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	45.1	<10	451	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.51	<3	35.1	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	8.75
Conductivity (µS/cm)	64
Volume Leachant (Litres)	0.893

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.097	**Natural Moisture Content (%)**	8.56
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	92.1
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976076
Sampled Date	09-May-2023
Customer Sample Ref.	TP133
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	<0.7	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	9.02	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000889	<0.0005	0.00889	<0.005	0.5	2	25
Barium	0.00123	<0.0002	0.0123	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00163	<0.0003	0.0163	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	0.00438	<0.003	0.0438	<0.03	0.5	10	30
Nickel	0.000484	<0.0004	0.00484	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00672	<0.001	0.0672	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	41	<10	410	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	8.48
Conductivity (µS/cm)	59
Volume Leachant (Litres)	0.892

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.102	**Natural Moisture Content (%)**	13.9
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	87.8
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976079
Sampled Date	09-May-2023
Customer Sample Ref.	TP135
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.255	3	5	6
Loss on Ignition (%)	1.43	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.48	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000813	<0.0005	0.00813	<0.005	0.5	2	25
Barium	0.00151	<0.0002	0.0151	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00184	<0.0003	0.0184	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000691	<0.0004	0.00691	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0102	<0.001	0.102	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.548	<0.5	5.48	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	62.4	<10	624	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.8	<3	58	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.96
Conductivity (µS/cm)	86
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	17.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.9
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976081
Sampled Date	09-May-2023
Customer Sample Ref.	TP139
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.79	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.76	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000701	<0.0005	0.00701	<0.005	0.5	2	25
Barium	0.000915	<0.0002	0.00915	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00168	<0.0003	0.0168	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00076	<0.0004	0.0076	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00496	<0.001	0.0496	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	70.8	<10	708	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.67	<3	46.7	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.91
Conductivity (µS/cm)	98
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	19.3
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.8
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976083
Sampled Date	09-May-2023
Customer Sample Ref.	TP145
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.398	3	5	6
Loss on Ignition (%)	2.48	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.26	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00114	<0.0002	0.0114	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00293	<0.0003	0.0293	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00123	<0.0004	0.0123	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0035	<0.001	0.035	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	15.6	<10	156	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.01	<3	70.1	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.57
Conductivity (µS/cm)	18
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	16.3
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976085
Sampled Date	09-May-2023
Customer Sample Ref.	TP148
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.404	3	5	6
Loss on Ignition (%)	3.19	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.44	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00237	<0.0002	0.0237	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00226	<0.0003	0.0226	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000746	<0.0004	0.00746	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00927	<0.001	0.0927	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	97.7	<10	977	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.19	<3	61.9	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.93
Conductivity (µS/cm)	130
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	18.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.4
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976087
Sampled Date	09-May-2023
Customer Sample Ref.	TP149
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.273	3	5	6
Loss on Ignition (%)	2.4	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.02	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00143	<0.0002	0.0143	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.0011	<0.001	0.011	<0.01	0.5	10	70
Copper	0.00178	<0.0003	0.0178	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.0011	<0.0004	0.011	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00164	<0.001	0.0164	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	18.2	<10	182	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.97	<3	69.7	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.05
Conductivity (µS/cm)	26
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	13.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	88.4
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976089
Sampled Date	09-May-2023
Customer Sample Ref.	TP153
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.48	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.98	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000512	<0.0005	0.00512	<0.005	0.5	2	25
Barium	0.00164	<0.0002	0.0164	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00271	<0.0003	0.0271	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00119	<0.0004	0.0119	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00938	<0.001	0.0938	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.611	<0.5	6.11	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	74.9	<10	749	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	7.11	<3	71.1	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.91
Conductivity (µS/cm)	99
Volume Leachant (Litres)	0.888

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.094	**Natural Moisture Content (%)**	5.07
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	95.2
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976091
Sampled Date	09-May-2023
Customer Sample Ref.	TP156
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	<0.2	3	5	6
Loss on Ignition (%)	1.17	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.94	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000913	<0.0005	0.00913	<0.005	0.5	2	25
Barium	0.00177	<0.0002	0.0177	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00121	<0.0003	0.0121	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000468	<0.0004	0.00468	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00157	<0.001	0.0157	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	39.7	<10	397	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.66
Conductivity (µS/cm)	54
Volume Leachant (Litres)	0.895

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	14.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	87.1
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976092
Sampled Date	09-May-2023
Customer Sample Ref.	TP158
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.25	3	5	6
Loss on Ignition (%)	2.08	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.38	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00131	<0.0002	0.0131	<0.002	20	100	300
Cadmium	0.000083	<0.00008	0.00083	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00155	<0.0003	0.0155	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000644	<0.0004	0.00644	<0.004	0.4	10	40
Lead	0.000226	<0.0002	0.00226	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00182	<0.001	0.0182	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	13.3	<10	133	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.91	<3	49.1	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.76
Conductivity (µS/cm)	19
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.103	**Natural Moisture Content (%)**	15.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.6
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976094
Sampled Date	09-May-2023
Customer Sample Ref.	TP159
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.382	3	5	6
Loss on Ignition (%)	2.79	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.7	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00403	<0.0002	0.0403	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.000805	<0.0003	0.00805	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000715	<0.0004	0.00715	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00415	<0.001	0.0415	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	50.5	<10	505	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.47	<3	44.7	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.87
Conductivity (µS/cm)	74
Volume Leachant (Litres)	0.887

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	17.7
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976095
Sampled Date	09-May-2023
Customer Sample Ref.	TP47
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.299	3	5	6
Loss on Ignition (%)	2.35	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.74	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000939	<0.0002	0.00939	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00226	<0.0003	0.0226	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000747	<0.0004	0.00747	<0.004	0.4	10	40
Lead	0.000782	<0.0002	0.00782	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00187	<0.001	0.0187	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	20.5	<10	205	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.81	<3	48.1	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	6.76
Conductivity (µS/cm)	18
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	19.1
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976097
Sampled Date	09-May-2023
Customer Sample Ref.	TP48
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.22	3	5	6
Loss on Ignition (%)	1.38	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.88	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000607	<0.0005	0.00607	<0.005	0.5	2	25
Barium	0.00175	<0.0002	0.0175	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00167	<0.0003	0.0167	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00129	<0.0004	0.0129	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00259	<0.001	0.0259	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	45.9	<10	459	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.87	<3	38.7	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.87
Conductivity (µS/cm)	62
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	16.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.8
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976098
Sampled Date	09-May-2023
Customer Sample Ref.	TP50
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.368	3	5	6
Loss on Ignition (%)	2.61	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.67	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000521	<0.0002	0.00521	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00182	<0.0003	0.0182	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000585	<0.0004	0.00585	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0041	<0.001	0.041	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	14.8	<10	148	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.8	<3	58	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.76
Conductivity (µS/cm)	20
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	19.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	83.9
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976099
Sampled Date	09-May-2023
Customer Sample Ref.	TP51
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.489	3	5	6
Loss on Ignition (%)	2.62	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.58	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	0.000753	<0.0005	0.00753	<0.005	0.5	2	25
Barium	0.00266	<0.0002	0.0266	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00348	<0.0003	0.0348	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00167	<0.0004	0.0167	<0.004	0.4	10	40
Lead	0.000751	<0.0002	0.00751	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00176	<0.001	0.0176	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	0.631	<0.5	6.31	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	59.9	<10	599	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.55	<3	45.5	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.57
Conductivity (µS/cm)	52
Volume Leachant (Litres)	0.883

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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.107	**Natural Moisture Content (%)**	18.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	84.5
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976100
Sampled Date	09-May-2023
Customer Sample Ref.	TP52
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.267	3	5	6
Loss on Ignition (%)	2.22	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.67	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000903	<0.0002	0.00903	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00146	<0.0003	0.0146	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000471	<0.0004	0.00471	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0017	<0.001	0.017	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	<10	<10	<100	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5	<3	50	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.91
Conductivity (µS/cm)	17
Volume Leachant (Litres)	0.883

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.106	**Natural Moisture Content (%)**	17.6
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976101
Sampled Date	09-May-2023
Customer Sample Ref.	TP54
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.308	3	5	6
Loss on Ignition (%)	2.51	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	6.92	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.002	<0.0002	0.02	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00188	<0.0003	0.0188	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000614	<0.0004	0.00614	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00204	<0.001	0.0204	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	11	<10	110	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	3.55	<3	35.5	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	6.97
Conductivity (µS/cm)	16
Volume Leachant (Litres)	0.884

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.105	**Natural Moisture Content (%)**	16.2
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.1
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976102
Sampled Date	09-May-2023
Customer Sample Ref.	TP55
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.231	3	5	6
Loss on Ignition (%)	3.8	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.22	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.00109	<0.0002	0.0109	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00104	<0.0003	0.0104	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	<0.0004	<0.0004	<0.004	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00138	<0.001	0.0138	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	27.5	<10	275	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	6.52	<3	65.2	<30	500	800	1000

Leach Test Information

Date Prepared	13-May-2023
pH (pH Units)	7.60
Conductivity (µS/cm)	40
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

01/06/2023 16:18:08

16:17:39 01/06/2023

Validated

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.091	**Natural Moisture Content (%)**	0.82
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	99.2
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976103
Sampled Date	09-May-2023
Customer Sample Ref.	TP56
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon (%)	0.229	3	5	6
Loss on Ignition (%)	2.11	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	7.95	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Arsenic	<0.0005	<0.0005	<0.005	<0.005	0.5	2	25
Barium	0.000965	<0.0002	0.00965	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.00105	<0.0003	0.0105	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000408	<0.0004	0.00408	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.00118	<0.001	0.0118	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	21.5	<10	215	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	4.44	<3	44.4	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.34
Conductivity (µS/cm)	31
Volume Leachant (Litres)	0.899

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
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01/06/2023 16:18:08

16:17:39 01/06/2023

Validated

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

WAC ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	16.6
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	85.8
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976104
Sampled Date	09-May-2023
Customer Sample Ref.	TP57
Depth (m)	0.50 - 0.50

Solid Waste Analysis	**Result**	**Landfill Waste Acceptance Criteria Limits**		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	0.216	3	5	6
Loss on Ignition (%)	1.75	-	-	10
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	<0.021	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	<5	500	-	-
PAH Sum of 17 (mg/kg)	<10	100	-	-
pH (pH Units)	8.7	-	>6	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.000813	<0.0005	0.00813	<0.005	0.5	2	25
Barium	0.00245	<0.0002	0.0245	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	<0.001	<0.001	<0.01	<0.01	0.5	10	70
Copper	0.0011	<0.0003	0.011	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.000708	<0.0004	0.00708	<0.004	0.4	10	40
Lead	<0.0002	<0.0002	<0.002	<0.002	0.5	10	50
Antimony	<0.001	<0.001	<0.01	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0097	<0.001	0.097	<0.01	4	50	200
Chloride	<2	<2	<20	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	62.8	<10	628	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.3	<3	53	<30	500	800	1000

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.82
Conductivity (µS/cm)	83
Volume Leachant (Litres)	0.885

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
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01/06/2023 16:18:08

16:17:39 01/06/2023

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.105	**Natural Moisture Content (%)**	15.8
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.4
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976065
Sampled Date	09-May-2023
Customer Sample Ref.	TP115
Depth (m)	0.50 - 0.50

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**				
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Fluoride	<0.5	<0.5	<5	<5	-	-	-

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.55
Conductivity (µS/cm)	41
Volume Leachant (Litres)	0.885

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	Blessington
Mass Sample taken (kg)	0.104	**Natural Moisture Content (%)**	15.4
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	86.7
Particle Size <4mm	>95%		

Case	
SDG	230601-72
Lab Sample Number(s)	27976068
Sampled Date	09-May-2023
Customer Sample Ref.	TP116
Depth (m)	0.50 - 0.50

Eluate Analysis	**C_2 Concⁿ in 10:1 eluate (mg/l)**		**A_2 10:1 concⁿ leached (mg/kg)**				
	Result	**Limit of Detection**	**Result**	**Limit of Detection**			
Fluoride	<0.5	<0.5	<5	<5	-	-	-

Leach Test Information

Date Prepared	12-May-2023
pH (pH Units)	7.43
Conductivity (µS/cm)	24
Volume Leachant (Litres)	0.887

Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)

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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115	Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	Determination of Loss on Ignition
TM089	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM104	Determination of Fluoride using the Kone Analyser
TM116	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM123	The Determination of Total Dissolved Solids in Water
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Determination of Hexavalent Chromium using Kone analyser
TM152	Analysis of Aqueous Samples by ICP-MS
TM168	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM181	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	The determination of PAH in soil samples by GC-MS
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM410	Determination of Coronene in soils by GCMS
TM414	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID
TM415	Determination of Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

Test Completion Dates

Lab Sample No(s)	27976050	27976052	27976053	27976054	27976055	27976095	27976097	27976098	27976099	27976100
Customer Sample Ref.	TP13	TP14	TP19	TP25	TP29	TP47	TP48	TP50	TP51	TP52
AGS Ref.										
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	17-May-2023	17-May-2023	18-May-2023	16-May-2023	17-May-2023	15-May-2023	17-May-2023	16-May-2023	15-May-2023	17-May-2023
CEN 10:1 Leachate (1 Stage)	13-May-2023	13-May-2023	13-May-2023	13-May-2023	19-May-2023	13-May-2023	13-May-2023	13-May-2023	13-May-2023	19-May-2023
CEN Readings	27-May-2023	27-May-2023	27-May-2023	27-May-2023	26-May-2023	27-May-2023	26-May-2023	26-May-2023	27-May-2023	26-May-2023
Chromium III	21-May-2023	21-May-2023	25-May-2023	22-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023
Coronene	18-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023		24-May-2023	24-May-2023	24-May-2023	18-May-2023
Dissolved Metals by ICP-MS	25-May-2023	26-May-2023	26-May-2023	19-May-2023	25-May-2023	18-May-2023	26-May-2023	18-May-2023	18-May-2023	25-May-2023
Dissolved Organic/Inorganic Carbon	19-May-2023	22-May-2023	25-May-2023	19-May-2023	19-May-2023	16-May-2023	24-May-2023	16-May-2023	16-May-2023	19-May-2023
EPH by GCxGC-FID	16-May-2023	18-May-2023	16-May-2023	18-May-2023	16-May-2023		17-May-2023	18-May-2023	18-May-2023	18-May-2023
EPH CWG GC (S)	16-May-2023	16-May-2023	18-May-2023	17-May-2023	17-May-2023		18-May-2023	18-May-2023	18-May-2023	17-May-2023
Fluoride	27-May-2023	27-May-2023	27-May-2023	30-May-2023	27-May-2023	30-May-2023	27-May-2023	30-May-2023	30-May-2023	27-May-2023
GRO by GC-FID (S)	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023		19-May-2023	19-May-2023	19-May-2023	15-May-2023
Hexavalent Chromium (s)	18-May-2023	18-May-2023	25-May-2023	18-May-2023	25-May-2023		25-May-2023	25-May-2023	25-May-2023	25-May-2023
Loss on Ignition in soils	25-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023		19-May-2023	19-May-2023	19-May-2023	24-May-2023
Mercury Dissolved	22-May-2023	22-May-2023	22-May-2023	17-May-2023	24-May-2023	17-May-2023	22-May-2023	17-May-2023	17-May-2023	24-May-2023
Metals in solid samples by OES	22-May-2023	22-May-2023	22-May-2023	22-May-2023	22-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	22-May-2023
Moisture at 105C	12-May-2023	13-May-2023	12-May-2023	12-May-2023	13-May-2023	12-May-2023	13-May-2023	13-May-2023	12-May-2023	13-May-2023
PAH 16 & 17 Calc	21-May-2023	18-May-2023	18-May-2023	18-May-2023	21-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023	19-May-2023
PAH by GCMS	19-May-2023	18-May-2023	18-May-2023	18-May-2023	19-May-2023		23-May-2023	23-May-2023	23-May-2023	19-May-2023
PCBs by GCMS	18-May-2023	19-May-2023	22-May-2023	19-May-2023	18-May-2023		25-May-2023	25-May-2023	25-May-2023	18-May-2023
pH	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023		18-May-2023	18-May-2023	18-May-2023	17-May-2023
pH Value of Filtered Water	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023
Phenols by HPLC (W)	19-May-2023	19-May-2023	22-May-2023	18-May-2023	18-May-2023	17-May-2023	19-May-2023	17-May-2023	17-May-2023	18-May-2023
Sample description	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023
Total Dissolved Solids on Leachates	22-May-2023	22-May-2023	22-May-2023	16-May-2023	22-May-2023	15-May-2023	22-May-2023	16-May-2023	15-May-2023	22-May-2023
Total Organic Carbon	24-May-2023	24-May-2023	25-May-2023	25-May-2023	25-May-2023		19-May-2023	24-May-2023	24-May-2023	25-May-2023
TPH CWG GC (S)	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	17-May-2023
VOC MS (S)	17-May-2023	17-May-2023	18-May-2023	18-May-2023	17-May-2023		16-May-2023	16-May-2023	16-May-2023	15-May-2023

Lab Sample No(s)	27976101	27976102	27976103	27976104	27976065	27976068	27976069	27976070	27976071	27976073
Customer Sample Ref.	TP54	TP55	TP56	TP57	TP115	TP116	TP121	TP122	TP123	TP127
AGS Ref.										
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	17-May-2023	17-May-2023	18-May-2023	16-May-2023	17-May-2023	16-May-2023	16-May-2023	16-May-2023	18-May-2023	17-May-2023
CEN 10:1 Leachate (1 Stage)	13-May-2023	13-May-2023	13-May-2023	14-May-2023	13-May-2023	13-May-2023	13-May-2023	14-May-2023	13-May-2023	13-May-2023
CEN Readings	26-May-2023	27-May-2023	27-May-2023	27-May-2023	27-May-2023	27-May-2023	26-May-2023	26-May-2023	27-May-2023	27-May-2023
Chromium III	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	19-May-2023	25-May-2023	25-May-2023	25-May-2023
Coronene	18-May-2023	23-May-2023	24-May-2023	24-May-2023	26-May-2023	25-May-2023	18-May-2023	24-May-2023	24-May-2023	18-May-2023
Dissolved Metals by ICP-MS	25-May-2023	26-May-2023	25-May-2023	18-May-2023	26-May-2023	17-May-2023	18-May-2023	18-May-2023	26-May-2023	26-May-2023
Dissolved Organic/Inorganic Carbon	25-May-2023	22-May-2023	25-May-2023	24-May-2023	26-May-2023	16-May-2023	16-May-2023	25-May-2023	25-May-2023	25-May-2023
EPH by GCxGC-FID	18-May-2023	18-May-2023	17-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
EPH CWG GC (S)	17-May-2023	18-May-2023	16-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
Fluoride	27-May-2023	27-May-2023	27-May-2023	30-May-2023	31-May-2023	31-May-2023	30-May-2023	27-May-2023	27-May-2023	27-May-2023
GRO by GC-FID (S)	15-May-2023	15-May-2023	19-May-2023	18-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	15-May-2023
Hexavalent Chromium (s)	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	18-May-2023	25-May-2023	25-May-2023	25-May-2023
Loss on Ignition in soils	24-May-2023	19-May-2023	24-May-2023	25-May-2023	25-May-2023	25-May-2023	24-May-2023	24-May-2023	25-May-2023	19-May-2023
Mercury Dissolved	22-May-2023	22-May-2023	22-May-2023	17-May-2023	22-May-2023	17-May-2023	17-May-2023	17-May-2023	22-May-2023	22-May-2023
Metals in solid samples by OES	19-May-2023	19-May-2023	22-May-2023	19-May-2023	22-May-2023	22-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023
Moisture at 105C	13-May-2023	13-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	13-May-2023	12-May-2023
PAH 16 & 17 Calc	19-May-2023	23-May-2023	24-May-2023	24-May-2023	26-May-2023	25-May-2023	19-May-2023	24-May-2023	24-May-2023	18-May-2023
PAH by GCMS	19-May-2023	22-May-2023	23-May-2023	25-May-2023	25-May-2023	25-May-2023	19-May-2023	23-May-2023	23-May-2023	18-May-2023
PCBs by GCMS	18-May-2023	19-May-2023	25-May-2023	25-May-2023	26-May-2023	26-May-2023	18-May-2023	25-May-2023	25-May-2023	19-May-2023
pH	17-May-2023	17-May-2023	18-May-2023	18-May-2023	17-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
pH Value of Filtered Water	26-May-2023	26-May-2023	26-May-2023	26-May-2023	27-May-2023	27-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023
Phenols by HPLC (W)	19-May-2023	19-May-2023	19-May-2023	17-May-2023	19-May-2023	17-May-2023	17-May-2023	18-May-2023	22-May-2023	19-May-2023
Sample description	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023
Total Dissolved Solids on Leachates	22-May-2023	22-May-2023	22-May-2023	16-May-2023	22-May-2023	16-May-2023	16-May-2023	16-May-2023	22-May-2023	22-May-2023
Total Organic Carbon	25-May-2023	25-May-2023	25-May-2023	24-May-2023	26-May-2023	26-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023
TPH CWG GC (S)	17-May-2023	18-May-2023	19-May-2023	18-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	18-May-2023
VOC MS (S)	15-May-2023	15-May-2023	16-May-2023	18-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023	14-May-2023

CERTIFICATE OF ANALYSIS

SDG: 230601-72 Report Number: 690995 Superseded Report: 690968
Client Ref.: 6100 Location: Blessington

Lab Sample No(s)	27976074	27976075	27976076	27976079	27976081	27976083	27976085	27976087	27976089	27976091
Customer Sample Ref.	TP128	TP132	TP133	TP135	TP139	TP145	TP148	TP149	TP153	TP156
AGS Ref.										
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	15-May-2023	18-May-2023	17-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023	19-May-2023	16-May-2023	16-May-2023
CEN 10:1 Leachate (1 Stage)	13-May-2023	13-May-2023	14-May-2023	13-May-2023	13-May-2023	14-May-2023	13-May-2023	17-May-2023	14-May-2023	13-May-2023
CEN Readings	27-May-2023	26-May-2023	26-May-2023	27-May-2023	27-May-2023	27-May-2023	26-May-2023	30-May-2023	26-May-2023	27-May-2023
Chromium III	25-May-2023	25-May-2023	25-May-2023	21-May-2023	19-May-2023	25-May-2023	25-May-2023	19-May-2023	25-May-2023	21-May-2023
Coronene	23-May-2023	23-May-2023	18-May-2023	18-May-2023	18-May-2023	24-May-2023	18-May-2023	18-May-2023	24-May-2023	18-May-2023
Dissolved Metals by ICP-MS	18-May-2023	26-May-2023	26-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023	26-May-2023	18-May-2023	19-May-2023
Dissolved Organic/Inorganic Carbon	16-May-2023	19-May-2023	25-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023	19-May-2023	25-May-2023	25-May-2023
EPH by GCxGC-FID	18-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
EPH CWG GC (S)	18-May-2023	17-May-2023	17-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023
Fluoride	30-May-2023	27-May-2023	27-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	27-May-2023	27-May-2023	30-May-2023
GRO by GC-FID (S)	19-May-2023	15-May-2023	15-May-2023	15-May-2023	19-May-2023	19-May-2023	19-May-2023	15-May-2023	19-May-2023	19-May-2023
Hexavalent Chromium (s)	25-May-2023	25-May-2023	25-May-2023	18-May-2023	18-May-2023	25-May-2023	25-May-2023	18-May-2023	25-May-2023	18-May-2023
Loss on Ignition in soils	24-May-2023	19-May-2023	23-May-2023	24-May-2023	25-May-2023	19-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023
Mercury Dissolved	17-May-2023	22-May-2023	22-May-2023	17-May-2023	17-May-2023	17-May-2023	17-May-2023	22-May-2023	17-May-2023	17-May-2023
Metals in solid samples by OES	19-May-2023	19-May-2023	18-May-2023	18-May-2023	19-May-2023	19-May-2023	22-May-2023	19-May-2023	22-May-2023	22-May-2023
Moisture at 105C	12-May-2023	13-May-2023	13-May-2023	12-May-2023	12-May-2023	12-May-2023	13-May-2023	12-May-2023	12-May-2023	13-May-2023
PAH 16 & 17 Calc	23-May-2023	23-May-2023	19-May-2023	19-May-2023	19-May-2023	24-May-2023	18-May-2023	18-May-2023	24-May-2023	18-May-2023
PAH by GCMS	19-May-2023	22-May-2023	19-May-2023	18-May-2023	18-May-2023	23-May-2023	18-May-2023	18-May-2023	23-May-2023	18-May-2023
PCBs by GCMS	22-May-2023	22-May-2023	18-May-2023	19-May-2023	19-May-2023	25-May-2023	19-May-2023	19-May-2023	25-May-2023	19-May-2023
pH	18-May-2023	17-May-2023	17-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023
pH Value of Filtered Water	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023
Phenols by HPLC (W)	17-May-2023	22-May-2023	19-May-2023	17-May-2023	17-May-2023	17-May-2023	17-May-2023	22-May-2023	17-May-2023	18-May-2023
Sample description	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023
Total Dissolved Solids on Leachates	15-May-2023	22-May-2023	22-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023	22-May-2023	16-May-2023	16-May-2023
Total Organic Carbon	24-May-2023	24-May-2023	25-May-2023	17-May-2023	24-May-2023	24-May-2023	25-May-2023	24-May-2023	25-May-2023	25-May-2023
TPH CWG GC (S)	19-May-2023	17-May-2023	17-May-2023	18-May-2023	19-May-2023	19-May-2023	19-May-2023	18-May-2023	19-May-2023	19-May-2023
VOC MS (S)	16-May-2023	15-May-2023	15-May-2023	15-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023	16-May-2023

Lab Sample No(s)	27976092	27976094	27976056	27976057	27976058	27976059	27976060	27976061	27976062	27976064
Customer Sample Ref.	TP158	TP159	TP160	TP162	TP163	TP164	TP166	TP167	TP172	TP173
AGS Ref.										
Depth	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50	0.50 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Anions by Kone (w)	16-May-2023	18-May-2023	17-May-2023	17-May-2023	17-May-2023	16-May-2023	16-May-2023	17-May-2023	18-May-2023	16-May-2023
CEN 10:1 Leachate (1 Stage)	13-May-2023	13-May-2023	13-May-2023	13-May-2023	13-May-2023	14-May-2023	14-May-2023	13-May-2023	13-May-2023	14-May-2023
CEN Readings	27-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	27-May-2023	27-May-2023	26-May-2023	26-May-2023	27-May-2023
Chromium III	21-May-2023	21-May-2023	21-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023
Coronene	18-May-2023	23-May-2023	18-May-2023	23-May-2023	23-May-2023	23-May-2023	24-May-2023	23-May-2023	24-May-2023	24-May-2023
Dissolved Metals by ICP-MS	19-May-2023	26-May-2023	26-May-2023	26-May-2023	25-May-2023	18-May-2023	18-May-2023	25-May-2023	26-May-2023	18-May-2023
Dissolved Organic/Inorganic Carbon	25-May-2023	19-May-2023	25-May-2023	25-May-2023	25-May-2023	16-May-2023	16-May-2023	19-May-2023	19-May-2023	25-May-2023
EPH by GCxGC-FID	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023	18-May-2023	16-May-2023	18-May-2023
EPH CWG GC (S)	18-May-2023	18-May-2023	16-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	17-May-2023
Fluoride	30-May-2023	27-May-2023	27-May-2023	27-May-2023	27-May-2023	30-May-2023	30-May-2023	27-May-2023	27-May-2023	30-May-2023
GRO by GC-FID (S)	19-May-2023	19-May-2023	19-May-2023	18-May-2023	19-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	19-May-2023
Hexavalent Chromium (s)	18-May-2023	18-May-2023	18-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023	25-May-2023
Loss on Ignition in soils	24-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023	24-May-2023	25-May-2023	24-May-2023	25-May-2023	25-May-2023
Mercury Dissolved	17-May-2023	22-May-2023	22-May-2023	22-May-2023	22-May-2023	17-May-2023	17-May-2023	22-May-2023	22-May-2023	17-May-2023
Metals in solid samples by OES	22-May-2023	22-May-2023	22-May-2023	18-May-2023	17-May-2023	18-May-2023	19-May-2023	17-May-2023	22-May-2023	19-May-2023
Moisture at 105C	13-May-2023	12-May-2023	12-May-2023	13-May-2023	13-May-2023	12-May-2023	12-May-2023	13-May-2023	13-May-2023	12-May-2023
PAH 16 & 17 Calc	18-May-2023	23-May-2023	18-May-2023	23-May-2023	23-May-2023	23-May-2023	24-May-2023	23-May-2023	24-May-2023	24-May-2023
PAH by GCMS	18-May-2023	19-May-2023	18-May-2023	22-May-2023	22-May-2023	22-May-2023	23-May-2023	22-May-2023	23-May-2023	23-May-2023
PCBs by GCMS	19-May-2023	22-May-2023	19-May-2023	22-May-2023	22-May-2023	22-May-2023	25-May-2023	22-May-2023	25-May-2023	25-May-2023
pH	17-May-2023	18-May-2023	18-May-2023	17-May-2023	17-May-2023	17-May-2023	18-May-2023	17-May-2023	18-May-2023	18-May-2023
pH Value of Filtered Water	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023	26-May-2023
Phenols by HPLC (W)	18-May-2023	22-May-2023	19-May-2023	19-May-2023	19-May-2023	17-May-2023	17-May-2023	19-May-2023	19-May-2023	17-May-2023
Sample description	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023	12-May-2023
Total Dissolved Solids on Leachates	16-May-2023	22-May-2023	22-May-2023	22-May-2023	22-May-2023	16-May-2023	16-May-2023	22-May-2023	22-May-2023	16-May-2023
Total Organic Carbon	25-May-2023	25-May-2023	25-May-2023	16-May-2023	16-May-2023	16-May-2023	24-May-2023	16-May-2023	24-May-2023	24-May-2023
TPH CWG GC (S)	19-May-2023	19-May-2023	19-May-2023	18-May-2023	19-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	19-May-2023
VOC MS (S)	16-May-2023	16-May-2023	16-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023	18-May-2023

Appendix

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

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

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

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

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

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

7. Results relate only to the items tested.

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

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

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

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

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

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

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

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

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

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

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

19. **Sample Deviations**

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

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

20. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials andd soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

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

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

Visual Estimation Of Fibre Content

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

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

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

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

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Site Investigations Ltd
The Grange
Carhugar
12th Lock Road
Lucan
Co. Dublin

Attention: Stephen Letch

CERTIFICATE OF ANALYSIS

Date of report Generation:	20 June 2023
Customer:	Site Investigations Ltd
Sample Delivery Group (SDG):	230614-116
Your Reference:	6100
Location:	Blessington - Phase 3
Report No:	693105
Order Number:	30/A/23

We received 15 samples on Wednesday June 14, 2023 and 15 of these samples were scheduled for analysis which was completed on Tuesday June 20, 2023. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager

1291

CERTIFICATE OF ANALYSIS

SDG: 230614-116 **Report Number:** 693105 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington - Phase 3

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
28151639	TP 01		1.50 - 1.50	12/06/2023
28151641	TP 08		1.00 - 1.00	12/06/2023
28151642	TP 29		2.00 - 2.00	12/06/2023
28151645	TP 38		1.00 - 1.00	12/06/2023
28151647	TP 57		0.50 - 0.50	12/06/2023
28151649	TP 63		1.50 - 1.50	12/06/2023
28151650	TP 85		2.00 - 2.00	12/06/2023
28151651	TP 88		1.50 - 1.50	12/06/2023
28151652	TP 112		1.00 - 1.00	12/06/2023
28151653	TP 130		1.50 - 1.50	12/06/2023
28151654	TP 142		1.50 - 1.50	12/06/2023
28151655	TP 144		1.00 - 1.00	12/06/2023
28151656	TP 151		1.00 - 1.00	12/06/2023
28151657	TP 167		0.50 - 0.50	12/06/2023
28151658	TP 173		1.50 - 1.50	12/06/2023

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

Validated

CERTIFICATE OF ANALYSIS

SDG: 230614-116 **Report Number:** 693105 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington - Phase 3

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			28151639	TP 01		1.50 - 1.50	250g Amber Jar (ALE210)	S
			28151641	TP 08		1.00 - 1.00	250g Amber Jar (ALE210)	S
			28151642	TP 29		2.00 - 2.00	250g Amber Jar (ALE210)	S
			28151645	TP 38		1.00 - 1.00	250g Amber Jar (ALE210)	S
			28151647	TP 57		0.50 - 0.50	250g Amber Jar (ALE210)	S
			28151649	TP 63		1.50 - 1.50	250g Amber Jar (ALE210)	S
			28151650	TP 85		2.00 - 2.00	250g Amber Jar (ALE210)	S
			28151651	TP 88		1.50 - 1.50	250g Amber Jar (ALE210)	S
			28151652	TP 112		1.00 - 1.00	250g Amber Jar (ALE210)	S
			28151653	TP 130		1.50 - 1.50	250g Amber Jar (ALE210)	S
			28151654	TP 142		1.50 - 1.50	250g Amber Jar (ALE210)	S
			28151655	TP 144		1.00 - 1.00	250g Amber Jar (ALE210)	S
			28151656	TP 151		1.00 - 1.00	250g Amber Jar (ALE210)	S
			28151657	TP 167		0.50 - 0.50	250g Amber Jar (ALE210)	S
			28151658	TP 173		1.50 - 1.50	250g Amber Jar (ALE210)	S
Loss on Ignition in soils	All	NDPs: 0 Tests: 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG: 230614-116 **Report Number:** 693105 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington - Phase 3

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
28151639	TP 01	1.50 - 1.50	Light Brown	Silt Loam	None	None
28151641	TP 08	1.00 - 1.00	Light Brown	Clay Loam	Stones	None
28151642	TP 29	2.00 - 2.00	Light Brown	Silt Loam	Stones	None
28151645	TP 38	1.00 - 1.00	Light Brown	Sandy Clay Loam	Stones	None
28151647	TP 57	0.50 - 0.50	Dark Brown	Sand	Stones	None
28151649	TP 63	1.50 - 1.50	Light Brown	Silt Loam	None	None
28151650	TP 85	2.00 - 2.00	Light Brown	Sandy Clay Loam	None	None
28151651	TP 88	1.50 - 1.50	Light Brown	Silt Loam	None	None
28151652	TP 112	1.00 - 1.00	Dark Brown	Sandy Clay Loam	Stones	None
28151653	TP 130	1.50 - 1.50	Light Brown	Silt Loam	None	None
28151654	TP 142	1.50 - 1.50	Light Brown	Silt Loam	Vegetation	None
28151655	TP 144	1.00 - 1.00	Dark Brown	Sandy Silt Loam	Stones	Vegetation
28151656	TP 151	1.00 - 1.00	Dark Brown	Sandy Clay	None	None
28151657	TP 167	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
28151658	TP 173	1.50 - 1.50	Dark Brown	Silt Loam	None	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Validated

CERTIFICATE OF ANALYSIS

SDG: 230614-116 **Report Number:** 693105 **Superseded Report:**

Client Ref.: 6100 **Location:** Blessington - Phase 3

Results Legend
ISO17025 accredited.
M mCERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
* Subcontracted - refer to subcontractor report for accreditation status.
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F) Trigger breach confirmed
1-4+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP 01	TP 08	TP 29	TP 38	TP 57	TP 63
			Depth (m)	1.50 - 1.50	1.00 - 1.00	2.00 - 2.00	1.00 - 1.00	0.50 - 0.50	1.50 - 1.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	12/06/2023	12/06/2023	12/06/2023	12/06/2023	12/06/2023	12/06/2023
			Sample Time	-	-	-	-	-	-
			Date Received	14/06/2023	14/06/2023	14/06/2023	14/06/2023	14/06/2023	14/06/2023
			SDG Ref	230614-116	230614-116	230614-116	230614-116	230614-116	230614-116
			Lab Sample No.(s)	28151639	28151641	28151642	28151645	28151647	28151649
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		19	15	17	14	7.3	19
Loss on ignition	<0.7 %	TM018		2.25 M	5.68 M	3.23 M	7.49 M	1.12 M	1.16 M

Validated

CERTIFICATE OF ANALYSIS

SDG: 230614-116 **Report Number:** 693105 **Superseded Report:**

Client Ref.: 6100 **Location:** Blessington - Phase 3

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP 85	TP 88	TP 112	TP 130	TP 142	TP 144
			Depth (m)	2.00 - 2.00	1.50 - 1.50	1.00 - 1.00	1.50 - 1.50	1.50 - 1.50	1.00 - 1.00
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	12/06/2023	12/06/2023	12/06/2023	12/06/2023	12/06/2023	12/06/2023
			Sample Time	-	-	-	-	-	-
			Date Received	14/06/2023	14/06/2023	14/06/2023	14/06/2023	14/06/2023	14/06/2023
			SDG Ref	230614-116	230614-116	230614-116	230614-116	230614-116	230614-116
			Lab Sample No.(s)	28151650	28151651	28151652	28151653	28151654	28151655
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		16	21	15	15	15	18
Loss on ignition	<0.7 %	TM018		3.55 M	2.07 M	3.34 M	1.36 M	4.66 M	3.7 M

Validated

CERTIFICATE OF ANALYSIS

SDG: 230614-116 **Report Number:** 693105 **Superseded Report:**

Client Ref.: 6100 **Location:** Blessington - Phase 3

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	TP 151	TP 167	TP 173			
			Depth (m)	1.00 - 1.00	0.50 - 0.50	1.50 - 1.50			
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
			Date Sampled	12/06/2023	12/06/2023	12/06/2023			
			Sample Time	-	-	-			
			Date Received	14/06/2023	14/06/2023	14/06/2023			
			SDG Ref	230614-116	230614-116	230614-116			
			Lab Sample No.(s)	28151656	28151657	28151658			
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		17	17	19			
Loss on ignition	<0.7 %	TM018		5.57 M	3.42 M	2.7 M			

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
TM018	Determination of Loss on Ignition

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

CERTIFICATE OF ANALYSIS

SDG: 230614-116 **Report Number:** 693105 **Superseded Report:**
Client Ref.: 6100 **Location:** Blessington - Phase 3

Test Completion Dates

Lab Sample No(s)	28151639	28151641	28151642	28151645	28151647	28151649	28151650	28151651	28151652	28151653
Customer Sample Ref.	TP 01	TP 08	TP 29	TP 38	TP 57	TP 63	TP 85	TP 88	TP 112	TP 130
AGS Ref.										
Depth	1.50 - 1.50	1.00 - 1.00	2.00 - 2.00	1.00 - 1.00	0.50 - 0.50	1.50 - 1.50	2.00 - 2.00	1.50 - 1.50	1.00 - 1.00	1.50 - 1.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Loss on Ignition in soils	20-Jun-2023	20-Jun-2023	20-Jun-2023	20-Jun-2023	20-Jun-2023	20-Jun-2023	20-Jun-2023	19-Jun-2023	19-Jun-2023	20-Jun-2023
Sample description	16-Jun-2023	16-Jun-2023	16-Jun-2023	16-Jun-2023	16-Jun-2023	16-Jun-2023	16-Jun-2023	15-Jun-2023	15-Jun-2023	16-Jun-2023

Lab Sample No(s)	28151654	28151655	28151656	28151657	28151658
Customer Sample Ref.	TP 142	TP 144	TP 151	TP 167	TP 173
AGS Ref.					
Depth	1.50 - 1.50	1.00 - 1.00	1.00 - 1.00	0.50 - 0.50	1.50 - 1.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Loss on Ignition in soils	20-Jun-2023	19-Jun-2023	20-Jun-2023	19-Jun-2023	19-Jun-2023
Sample description	16-Jun-2023	15-Jun-2023	15-Jun-2023	15-Jun-2023	15-Jun-2023

Appendix

General

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

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

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

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

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

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

7. Results relate only to the items tested.

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

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

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

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

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury.

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

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

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

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

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

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

19. **Sample Deviations**

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

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

20. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials andd soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

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

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

Visual Estimation Of Fibre Content

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

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

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

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

Appendix 11
Waste Classification Report

DRAFT

HazWasteOnline™

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

EP12Y-4K4HA-WT6MS

Job name

6100

Description/Comments

Client: Cairn Homes Ltd
Engineer: DBFL

Project

Blessington - Phase 3

Site

Oak Drive, Blessington, Co. Wicklow

Classified by

Name:
Stephen Letch
Date:
07 Jul 2023 10:49 GMT
Telephone:
00353 86817 9449

Company:
Site Investigations Ltd
The Grange
12th Lock Road
Lucan
K78 F598

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	09 Oct 2019
Most recent 3 year Refresher	04 Oct 2022

Next 3 year Refresher due by Oct 2025

Purpose of classification

2 - Material Characterisation

Address of the waste

Oak Drive, Blessington, Co. Wicklow **Post Code** N/A

SIC for the process giving rise to the waste

43130 Test drilling and boring

Description of industry/producer giving rise to the waste

Site Investigation

Description of the specific process, sub-process and/or activity that created the waste

Soils recovered for environmental testing

Description of the waste

Natural soils

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results		Page
					Inert	Non Haz	
1	TP115-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	5
2	TP116-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	9
3	TP121-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	13
4	TP122-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	17
5	TP123-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	21
6	TP127-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	25
7	TP128-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	29
8	TP13-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	33
9	TP132-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	37
10	TP133-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	41
11	TP135-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	45
12	TP139-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	49
13	TP14-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	53
14	TP145-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	57
15	TP148-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	61
16	TP149-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	65
17	TP153-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	69
18	TP156-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	73
19	TP158-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	77
20	TP159-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	81
21	TP160-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	85
22	TP162-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	89
23	TP163-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	93
24	TP164-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	97
25	TP166-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	101
26	TP167-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	105
27	TP172-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	109
28	TP173-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	113
29	TP19-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	117
30	TP25-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	121
31	TP29-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	125
32	TP47-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	129
33	TP48-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	133
34	TP50-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	137
35	TP51-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	141
36	TP52-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	145
37	TP54-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	149
38	TP55-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	153
39	TP56-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	157
40	TP57-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	161
41	TP106-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	165
42	TP109-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	169
43	TP112-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	173
44	TP3-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	177
45	TP31-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	181
46	TP34-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	185
47	TP37-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	189
48	TP38-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	193
49	TP39-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	197
50	TP4-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	201
51	TP42-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	205
52	TP44-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	209
53	TP45-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	213
54	TP46-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	217
55	TP5-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	221
56	TP60-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	225
57	TP61-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	229
58	TP62-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	233
59	TP63-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	237
60	TP64-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	241
61	TP65-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	245
62	TP66-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	249

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results		Page
					Inert	Non Haz	
63	TP68-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	253
64	TP69-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	257
65	TP7-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	261
66	TP70-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	265
67	TP71-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	269
68	TP74-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	273
69	TP77-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	277
70	TP78-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	281
71	TP80-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	285
72	TP82-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	289
73	TP85-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	293
74	TP87-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	297
75	TP91-090523-0.50-0.50	0.50	Non Hazardous		Pass	Fail	301
76	TP92-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	305
77	TP93-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	309
78	TP94-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	313
79	TP95-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	317
80	TP97-090523-0.50-0.50	0.50	Non Hazardous		Pass	Pass	321

Related documents

#	Name	Description
1	230601-72.hwol	ALS Hawarden .hwol file used to populate the Job
2	230511-79.hwol	ALS Hawarden .hwol file used to populate the Job
3	Rilta Suite NEW	waste stream template used to create this Job

WAC results

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate the samples in this Job: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

Report

Created by: Stephen Letch

Created date: 07 Jul 2023 10:49 GMT

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Appendix A: Classifier defined and non EU CLP determinands	325
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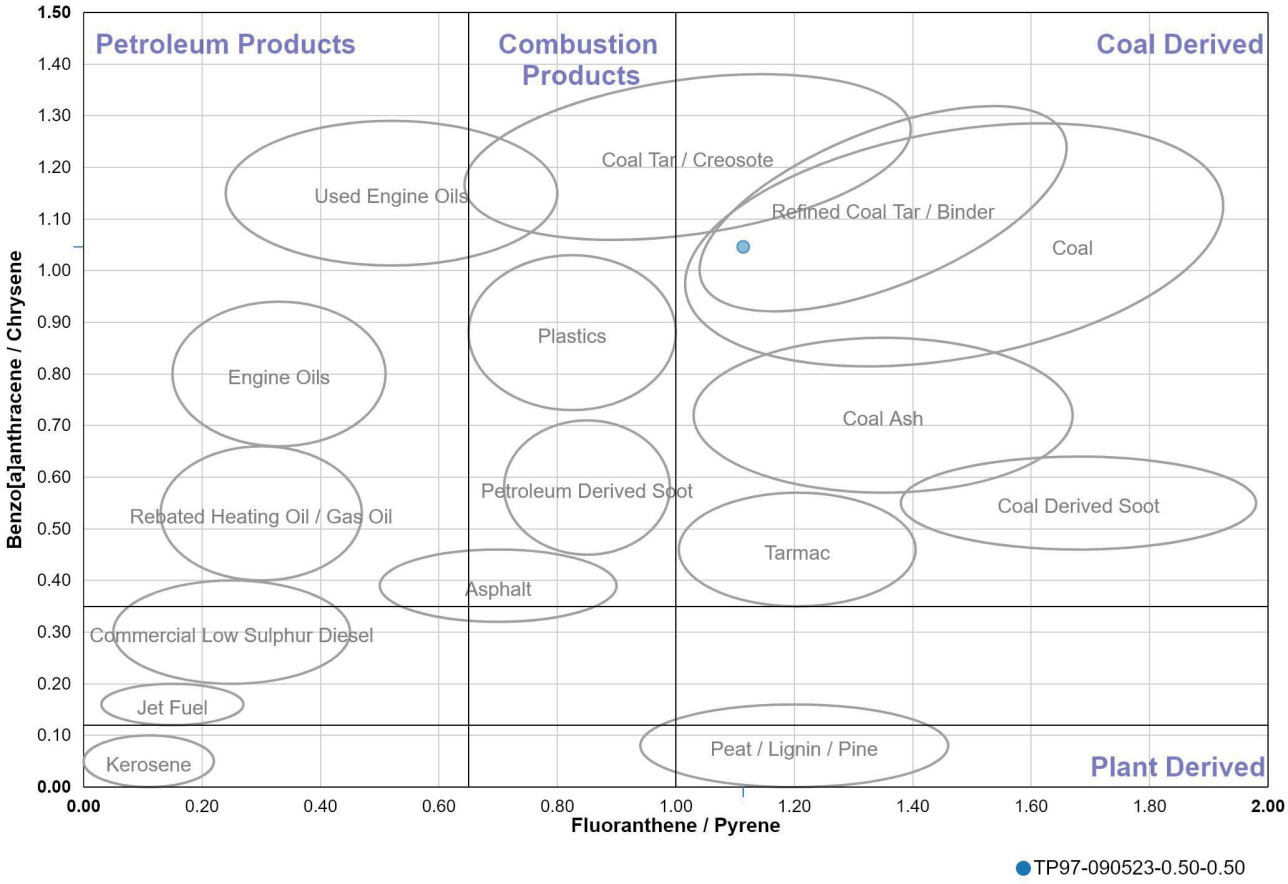
Double Ratio PAH Plot



Disclaimer

The domains, oval areas and the plotted points are **indicators only** and must be combined with other lines of evidence to form conclusions. Samples marked with an empty circle are not plotted as they fall outside of the graph's boundaries.

Credits

The domains and the horizontal and vertical lines are derived from Yunker et al. 2002 (Organic Geochemistry 33, 489-515)
Most of the ellipses and their labels are with kind permission of Jones Environmental Forensics Limited (now Element Materials Technology)

Classification of sample: TP115-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP115-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.681	mg/kg	1.197	0.685	mg/kg	0.0000685 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.3	mg/kg	1.534	15.848	mg/kg	0.00158 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		34.3	mg/kg	1.233	35.539	mg/kg	0.00355 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.14	mg/kg	1.855	1.776	mg/kg	0.000178 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.6	mg/kg	1.126	15.699	mg/kg	0.00157 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	25.1	mg/kg		21.084	mg/kg	0.00211 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.931	mg/kg	1.5	1.173	mg/kg	0.000117 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		35.8	mg/kg	2.637	79.29	mg/kg	0.00793 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.12	mg/kg	1.405	1.322	mg/kg	0.000132 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		104	mg/kg	2.469	215.718	mg/kg	0.0216 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.4	mg/kg	1.462	18.907	mg/kg	0.00189 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.36	pH		7.36	pH	7.36 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0419 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP115-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.281	3	5
2	LOI (loss on ignition)	%	2.2	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.36	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0119	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0181	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0075	0.4	10
17	lead	mg/kg	0.0025	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0273	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	34.6	500	800
26	TDS (total dissolved solids)	mg/kg	297	4,000	60,000

Key

User supplied data

Classification of sample: TP116-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP116-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.849	mg/kg	1.197	0.864	mg/kg	0.0000864 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		14.5	mg/kg	1.534	18.905	mg/kg	0.00189 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		62.6	mg/kg	1.233	65.634	mg/kg	0.00656 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.5	mg/kg	1.855	3.941	mg/kg	0.000394 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27.8	mg/kg	1.126	26.605	mg/kg	0.00266 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	60.1	mg/kg		51.085	mg/kg	0.00511 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1	mg/kg	1.5	1.275	mg/kg	0.000128 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		38.3	mg/kg	2.637	85.837	mg/kg	0.00858 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.32	mg/kg	1.405	1.576	mg/kg	0.000158 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		181	mg/kg	2.469	379.901	mg/kg	0.038 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.7	mg/kg	1.462	19.504	mg/kg	0.00195 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		8.77	pH		8.77	pH	8.77 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0667 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP116-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.69	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.77	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0088	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0049	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0059	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0508	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	51	500	800
26	TDS (total dissolved solids)	mg/kg	207	4,000	60,000

Key

User supplied data

Classification of sample: TP121-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP121-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
21%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.34	mg/kg	1.197	1.267	mg/kg	0.000127 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		19.7	mg/kg	1.534	23.872	mg/kg	0.00239 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		101	mg/kg	1.233	98.42	mg/kg	0.00984 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		4.66	mg/kg	1.855	6.827	mg/kg	0.000683 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25.2	mg/kg	1.126	22.414	mg/kg	0.00224 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	36.6	mg/kg		28.914	mg/kg	0.00289 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.08	mg/kg	1.5	1.28	mg/kg	0.000128 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		44.9	mg/kg	2.637	93.526	mg/kg	0.00935 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				2.09	mg/kg	1.405	2.32	mg/kg	0.000232 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		137	mg/kg	2.469	267.252	mg/kg	0.0267 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.4	mg/kg	1.462	16.627	mg/kg	0.00166 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.84	pH		6.84	pH	6.84 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0575 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP121-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.26	3	5
2	LOI (loss on ignition)	%	2.17	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.84	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.005	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0133	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0064	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0221	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	53.3	500	800
26	TDS (total dissolved solids)	mg/kg	160	4,000	60,000

Key

User supplied data

Classification of sample: TP122-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP122-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑					
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<6 mg/kg	1.197	<7.183 mg/kg	<0.000718 %		**<LOD**
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		17.1 mg/kg	1.534	22.819 mg/kg	0.00228 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		61.8 mg/kg	1.233	66.32 mg/kg	0.00663 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.822 mg/kg	1.855	1.326 mg/kg	0.000133 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19.9 mg/kg	1.126	19.493 mg/kg	0.00195 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	21.2 mg/kg		18.444 mg/kg	0.00184 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		**<LOD**
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		43.4 mg/kg	2.637	99.556 mg/kg	0.00996 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<10 mg/kg	1.405	<14.05 mg/kg	<0.00141 %		**<LOD**
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		97.9 mg/kg	2.469	210.317 mg/kg	0.021 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.3 mg/kg	1.462	18.183 mg/kg	0.00182 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		0.0241	mg/kg		0.021	mg/kg	0.0000021 %	✓	
22		fluoranthene		205-912-4	206-44-0		0.0211	mg/kg		0.0184	mg/kg	0.00000184 %	✓	
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.11	pH		6.11	pH	6.11 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0492 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP122-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.87	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.11	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.006	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0132	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0064	0.4	10
17	lead	mg/kg	0.0027	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0325	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	35.8	500	800
26	TDS (total dissolved solids)	mg/kg	131	4,000	60,000

Key

User supplied data

Classification of sample: TP123-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP123-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.904 mg/kg	1.197	0.898 mg/kg	0.0000898 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		13.2 mg/kg	1.534	16.805 mg/kg	0.00168 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		43.7 mg/kg	1.233	44.74 mg/kg	0.00447 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.39 mg/kg	1.855	2.14 mg/kg	0.000214 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.7 mg/kg	1.126	15.606 mg/kg	0.00156 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	24.2 mg/kg		20.086 mg/kg	0.00201 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.01 mg/kg	1.5	1.258 mg/kg	0.000126 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		33.3 mg/kg	2.637	72.875 mg/kg	0.00729 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.13 mg/kg	1.405	1.318 mg/kg	0.000132 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		100 mg/kg	2.469	204.952 mg/kg	0.0205 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.8 mg/kg	1.462	19.167 mg/kg	0.00192 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.57	pH		7.57	pH	7.57 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0412 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP123-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.347	3	5
2	LOI (loss on ignition)	%	2.47	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.57	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0134	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0163	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0083	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0485	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	59.8	500	800
26	TDS (total dissolved solids)	mg/kg	464	4,000	60,000

Key

User supplied data

Classification of sample: TP127-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP127-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
22%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.885 mg/kg	1.197	0.826 mg/kg	0.0000826 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		15.7 mg/kg	1.534	18.784 mg/kg	0.00188 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		84.2 mg/kg	1.233	81.011 mg/kg	0.0081 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.6 mg/kg	1.855	3.761 mg/kg	0.000376 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.6 mg/kg	1.126	16.334 mg/kg	0.00163 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.8 mg/kg		16.224 mg/kg	0.00162 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.12 mg/kg	1.5	1.311 mg/kg	0.000131 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		36.4 mg/kg	2.637	74.861 mg/kg	0.00749 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.42 mg/kg	1.405	1.556 mg/kg	0.000156 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		98.4 mg/kg	2.469	189.523 mg/kg	0.019 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.6 mg/kg	1.462	16.644 mg/kg	0.00166 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6 mg/kg	1.923	<1.154 mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016 mg/kg		<0.016 mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017 mg/kg		<0.017 mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018 mg/kg		<0.018 mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023 mg/kg		<0.023 mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021 mg/kg		<0.021 mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
38		pH			PH		8.64 pH		8.64 pH	8.64 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
									Total:	0.0433 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP127-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.453	3	5
2	LOI (loss on ignition)	%	2.5	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.64	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0078	0.5	2
10	barium	mg/kg	0.0247	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0091	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0058	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0358	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	32.2	500	800
26	TDS (total dissolved solids)	mg/kg	545	4,000	60,000

Key

User supplied data

Classification of sample: TP128-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP128-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.931	mg/kg	1.197	0.925	mg/kg	0.0000925 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		13.8	mg/kg	1.534	17.569	mg/kg	0.00176 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		42.5	mg/kg	1.233	43.511	mg/kg	0.00435 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.637	mg/kg	1.855	0.981	mg/kg	0.0000981 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.3	mg/kg	1.126	14.298	mg/kg	0.00143 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	26.9	mg/kg		22.327	mg/kg	0.00223 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.994	mg/kg	1.5	1.238	mg/kg	0.000124 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		23	mg/kg	2.637	50.334	mg/kg	0.00503 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.34	mg/kg	1.405	1.563	mg/kg	0.000156 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		84.4	mg/kg	2.469	172.979	mg/kg	0.0173 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.8	mg/kg	1.462	17.954	mg/kg	0.0018 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.25	pH		6.25	pH	6.25 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0355 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP128-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.637	3	5
2	LOI (loss on ignition)	%	3.75	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.25	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0054	0.5	2
10	barium	mg/kg	0.018	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0315	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0123	0.4	10
17	lead	mg/kg	0.0081	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0184	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	50.6	500	800
26	TDS (total dissolved solids)	mg/kg	263	4,000	60,000

Key

User supplied data

Classification of sample: TP13-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP13-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.11	mg/kg	1.197	1.116	mg/kg	0.000112 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		15.5	mg/kg	1.534	19.971	mg/kg	0.002 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		56.5	mg/kg	1.233	58.542	mg/kg	0.00585 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.17	mg/kg	1.855	3.381	mg/kg	0.000338 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25.7	mg/kg	1.126	24.306	mg/kg	0.00243 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	30	mg/kg		25.2	mg/kg	0.00252 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.99	mg/kg	1.5	1.248	mg/kg	0.000125 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		51.9	mg/kg	2.637	114.949	mg/kg	0.0115 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.48	mg/kg	1.405	1.747	mg/kg	0.000175 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		123	mg/kg	2.469	255.128	mg/kg	0.0255 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17.3	mg/kg	1.462	21.239	mg/kg	0.00212 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.76	pH		6.76	pH	6.76 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0539 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP13-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.28	3	5
2	LOI (loss on ignition)	%	2.66	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.76	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0086	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0135	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0067	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.02	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	47.9	500	800
26	TDS (total dissolved solids)	mg/kg	106	4,000	60,000

Key

User supplied data

Classification of sample: TP132-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP132-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
5.7%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 5.7% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		6.45 mg/kg	1.534	9.33 mg/kg	0.000933 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		21.5 mg/kg	1.233	25.008 mg/kg	0.0025 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.992 mg/kg	1.855	1.735 mg/kg	0.000173 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9.61 mg/kg	1.126	10.203 mg/kg	0.00102 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	15.5 mg/kg		14.616 mg/kg	0.00146 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.47 mg/kg	1.5	0.665 mg/kg	0.0000665 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		14.9 mg/kg	2.637	37.047 mg/kg	0.0037 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		53.1 mg/kg	2.469	123.646 mg/kg	0.0124 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.41 mg/kg	1.462	11.591 mg/kg	0.00116 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		9.09	pH		9.09	pH	9.09 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0248 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP132-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.01	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	9.09	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0079	0.5	2
10	barium	mg/kg	0.012	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.018	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0045	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0292	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	35.1	500	800
26	TDS (total dissolved solids)	mg/kg	451	4,000	60,000

Key

User supplied data

Classification of sample: TP133-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP133-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
8.5%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.5% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		4.97 mg/kg	1.534	6.975 mg/kg	0.000698 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		16.1 mg/kg	1.233	18.171 mg/kg	0.00182 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.74 mg/kg	1.855	2.953 mg/kg	0.000295 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.39 mg/kg	1.126	8.643 mg/kg	0.000864 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	7.9 mg/kg		7.229 mg/kg	0.000723 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.311 mg/kg	1.5	0.427 mg/kg	0.0000427 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		14.3 mg/kg	2.637	34.5 mg/kg	0.00345 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		128 mg/kg	2.469	289.204 mg/kg	0.0289 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.34 mg/kg	1.462	8.479 mg/kg	0.000848 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		9.02	pH		9.02	pH	9.02 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.039 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP133-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	<0.7	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	9.02	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0088	0.5	2
10	barium	mg/kg	0.0123	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0163	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	0.0438	0.5	10
16	nickel	mg/kg	0.0048	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0672	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	<30	500	800
26	TDS (total dissolved solids)	mg/kg	410	4,000	60,000

Key

User supplied data

Classification of sample: TP135-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP135-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.729 mg/kg	1.197	0.768 mg/kg	0.0000768 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11 mg/kg	1.534	14.848 mg/kg	0.00148 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		52.2 mg/kg	1.233	56.662 mg/kg	0.00567 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		3.04 mg/kg	1.855	4.961 mg/kg	0.000496 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.7 mg/kg	1.126	18.528 mg/kg	0.00185 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.9 mg/kg		18.392 mg/kg	0.00184 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.679 mg/kg	1.5	0.896 mg/kg	0.0000896 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		41.4 mg/kg	2.637	96.06 mg/kg	0.00961 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.29 mg/kg	1.405	1.595 mg/kg	0.000159 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		112 mg/kg	2.469	243.374 mg/kg	0.0243 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.3 mg/kg	1.462	17.106 mg/kg	0.00171 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		8.48	pH		8.48	pH	8.48 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0485 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP135-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.255	3	5
2	LOI (loss on ignition)	%	1.43	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.48	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0081	0.5	2
10	barium	mg/kg	0.0151	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0184	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0069	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.102	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	5.48	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	58	500	800
26	TDS (total dissolved solids)	mg/kg	624	4,000	60,000

Key

User supplied data

Classification of sample: TP139-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP139-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1	mg/kg	1.197	1.006	mg/kg	0.000101 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.9	mg/kg	1.534	16.621	mg/kg	0.00166 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		52.9	mg/kg	1.233	54.812	mg/kg	0.00548 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		3.76	mg/kg	1.855	5.857	mg/kg	0.000586 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22	mg/kg	1.126	20.806	mg/kg	0.00208 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	22.7	mg/kg		19.068	mg/kg	0.00191 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.04	mg/kg	1.5	1.311	mg/kg	0.000131 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		45.5	mg/kg	2.637	100.774	mg/kg	0.0101 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.62	mg/kg	1.405	1.912	mg/kg	0.000191 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		127	mg/kg	2.469	263.425	mg/kg	0.0263 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.5	mg/kg	1.462	17.802	mg/kg	0.00178 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.76	pH		7.76	pH	7.76 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0515 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP139-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.79	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.76	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.007	0.5	2
10	barium	mg/kg	0.0091	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0168	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0076	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0496	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	46.7	500	800
26	TDS (total dissolved solids)	mg/kg	708	4,000	60,000

Key

User supplied data

Classification of sample: TP14-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP14-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6	mg/kg	1.197	<0.718	mg/kg	<0.0000718 %		**<LOD**
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		9.06	mg/kg	1.534	12.229	mg/kg	0.00122 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		36.6	mg/kg	1.233	39.728	mg/kg	0.00397 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.568	mg/kg	1.855	0.927	mg/kg	0.0000927 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.85	mg/kg	1.126	8.768	mg/kg	0.000877 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.8	mg/kg		18.304	mg/kg	0.00183 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.57	mg/kg	1.5	0.752	mg/kg	0.0000752 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		16.1	mg/kg	2.637	37.357	mg/kg	0.00374 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		**<LOD**
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		64.8	mg/kg	2.469	140.809	mg/kg	0.0141 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10.1	mg/kg	1.462	12.99	mg/kg	0.0013 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.41	pH		7.41	pH	7.41 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0286 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP14-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.343	3	5
2	LOI (loss on ignition)	%	2.81	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.41	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.015	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0198	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0098	0.4	10
17	lead	mg/kg	0.0067	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0187	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	6.55	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	75.1	500	800
26	TDS (total dissolved solids)	mg/kg	<100	4,000	60,000

Key

User supplied data

Classification of sample: TP145-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP145-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<6 mg/kg	1.197	<7.183 mg/kg	<0.000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		14.4 mg/kg	1.534	18.996 mg/kg	0.0019 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		46 mg/kg	1.233	48.797 mg/kg	0.00488 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.562 mg/kg	1.855	0.896 mg/kg	0.0000896 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.2 mg/kg	1.126	19.559 mg/kg	0.00196 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	27.2 mg/kg		23.392 mg/kg	0.00234 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.16 mg/kg	1.5	1.497 mg/kg	0.00015 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		35.3 mg/kg	2.637	80.044 mg/kg	0.008 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<10 mg/kg	1.405	<14.05 mg/kg	<0.00141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		105 mg/kg	2.469	222.977 mg/kg	0.0223 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16.4 mg/kg	1.462	20.614 mg/kg	0.00206 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.26	pH		6.26	pH	6.26 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0471 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP145-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.398	3	5
2	LOI (loss on ignition)	%	2.48	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.26	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0114	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0293	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0123	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.035	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	70.1	500	800
26	TDS (total dissolved solids)	mg/kg	156	4,000	60,000

Key

User supplied data

Classification of sample: TP148-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP148-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.01 mg/kg	1.197	1.004 mg/kg	0.0001 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		17.4 mg/kg	1.534	22.152 mg/kg	0.00222 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		57.1 mg/kg	1.233	58.459 mg/kg	0.00585 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.49 mg/kg	1.855	2.294 mg/kg	0.000229 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23.1 mg/kg	1.126	21.587 mg/kg	0.00216 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	33.3 mg/kg		27.639 mg/kg	0.00276 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.04 mg/kg	1.5	1.295 mg/kg	0.000129 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		43.4 mg/kg	2.637	94.979 mg/kg	0.0095 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.76 mg/kg	1.405	2.052 mg/kg	0.000205 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		144 mg/kg	2.469	295.13 mg/kg	0.0295 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.3 mg/kg	1.462	18.56 mg/kg	0.00186 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.44	pH		6.44	pH	6.44 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0557 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP148-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.404	3	5
2	LOI (loss on ignition)	%	3.19	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.44	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0237	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0226	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0074	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0927	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	61.9	500	800
26	TDS (total dissolved solids)	mg/kg	977	4,000	60,000

Key

User supplied data

Classification of sample: TP149-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP149-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
26%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.4	mg/kg	1.197	1.24	mg/kg	0.000124 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		14.7	mg/kg	1.534	16.685	mg/kg	0.00167 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		54.6	mg/kg	1.233	49.838	mg/kg	0.00498 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.94	mg/kg	1.855	2.662	mg/kg	0.000266 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.7	mg/kg	1.126	17.246	mg/kg	0.00172 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	31	mg/kg		22.94	mg/kg	0.00229 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.08	mg/kg	1.5	1.199	mg/kg	0.00012 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		41.2	mg/kg	2.637	80.387	mg/kg	0.00804 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.41	mg/kg	1.405	1.466	mg/kg	0.000147 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		122	mg/kg	2.469	222.928	mg/kg	0.0223 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17.5	mg/kg	1.462	18.927	mg/kg	0.00189 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.02	pH		7.02	pH	7.02 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0447 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP149-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.273	3	5
2	LOI (loss on ignition)	%	2.4	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.02	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0143	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	0.011	0.5	10
13	copper	mg/kg	0.0178	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.011	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0164	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	69.7	500	800
26	TDS (total dissolved solids)	mg/kg	182	4,000	60,000

Key

User supplied data

Classification of sample: TP153-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP153-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.72 mg/kg	1.197	0.741 mg/kg	0.0000741 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.4 mg/kg	1.534	16.357 mg/kg	0.00164 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		37 mg/kg	1.233	39.25 mg/kg	0.00392 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.59 mg/kg	1.855	4.131 mg/kg	0.000413 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.5 mg/kg	1.126	15.976 mg/kg	0.0016 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	21 mg/kg		18.06 mg/kg	0.00181 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.93 mg/kg	1.5	1.2 mg/kg	0.00012 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		35.5 mg/kg	2.637	80.498 mg/kg	0.00805 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.41 mg/kg	1.405	1.704 mg/kg	0.00017 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		94.3 mg/kg	2.469	200.255 mg/kg	0.02 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.1 mg/kg	1.462	17.723 mg/kg	0.00177 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.98	pH		6.98	pH	6.98 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0408 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP153-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.48	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.98	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0051	0.5	2
10	barium	mg/kg	0.0164	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0271	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0119	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0938	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	6.11	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	71.1	500	800
26	TDS (total dissolved solids)	mg/kg	749	4,000	60,000

Key

User supplied data

Classification of sample: TP156-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP156-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
5.8%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 5.8% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<6 mg/kg	1.197	<7.183 mg/kg	<0.000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		<6 mg/kg	1.534	<9.203 mg/kg	<0.00092 %		**<LOD**
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		167 mg/kg	1.233	194.046 mg/kg	0.0194 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.568 mg/kg	1.855	0.992 mg/kg	0.0000992 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		<14 mg/kg	1.126	<15.762 mg/kg	<0.00158 %		**<LOD**
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12.3 mg/kg		11.587 mg/kg	0.00116 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		**<LOD**
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		20.4 mg/kg	2.637	50.669 mg/kg	0.00507 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<10 mg/kg	1.405	<14.05 mg/kg	<0.00141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		54 mg/kg	2.469	125.608 mg/kg	0.0126 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		<0.9 mg/kg	1.462	<1.315 mg/kg	<0.000132 %		**<LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		8.94	pH		8.94	pH	8.94 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0445 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP156-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.17	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.94	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0091	0.5	2
10	barium	mg/kg	0.0177	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0121	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0046	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0157	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	<30	500	800
26	TDS (total dissolved solids)	mg/kg	397	4,000	60,000

Key

User supplied data

Classification of sample: TP158-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP158-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.844 mg/kg	1.197	0.869 mg/kg	0.0000869 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.8 mg/kg	1.534	16.885 mg/kg	0.00169 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		40.8 mg/kg	1.233	43.281 mg/kg	0.00433 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.642 mg/kg	1.855	1.024 mg/kg	0.000102 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.9 mg/kg	1.126	12.491 mg/kg	0.00125 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.1 mg/kg		17.286 mg/kg	0.00173 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.742 mg/kg	1.5	0.957 mg/kg	0.0000957 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		22.2 mg/kg	2.637	50.34 mg/kg	0.00503 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		91 mg/kg	2.469	193.247 mg/kg	0.0193 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.3 mg/kg	1.462	16.717 mg/kg	0.00167 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.38	pH		6.38	pH	6.38 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0366 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP158-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.25	3	5
2	LOI (loss on ignition)	%	2.08	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.38	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0131	20	100
11	cadmium	mg/kg	0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0155	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0064	0.4	10
17	lead	mg/kg	0.0022	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0182	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	49.1	500	800
26	TDS (total dissolved solids)	mg/kg	133	4,000	60,000

Key

User supplied data

Classification of sample: TP159-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP159-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<6 mg/kg	1.197	<7.183 mg/kg	<0.000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		6.01 mg/kg	1.534	7.928 mg/kg	0.000793 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		67.2 mg/kg	1.233	71.286 mg/kg	0.00713 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.351 mg/kg	1.855	0.56 mg/kg	0.000056 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		<14 mg/kg	1.126	<15.762 mg/kg	<0.00158 %		**<LOD**
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	19.7 mg/kg		16.942 mg/kg	0.00169 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		**<LOD**
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		16 mg/kg	2.637	36.281 mg/kg	0.00363 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<10 mg/kg	1.405	<14.05 mg/kg	<0.00141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		76.2 mg/kg	2.469	161.818 mg/kg	0.0162 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	13.826 mg/kg	0.00138 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.7	pH		6.7	pH	6.7 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.036 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP159-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.382	3	5
2	LOI (loss on ignition)	%	2.79	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.7	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0403	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.008	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0071	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0415	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	44.7	500	800
26	TDS (total dissolved solids)	mg/kg	505	4,000	60,000

Key

User supplied data

Classification of sample: TP160-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP160-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<6 mg/kg	1.197	<7.183 mg/kg	<0.000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		18.5 mg/kg	1.534	24.688 mg/kg	0.00247 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		52.2 mg/kg	1.233	56.018 mg/kg	0.0056 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.6 mg/kg	1.855	2.582 mg/kg	0.000258 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.2 mg/kg	1.126	16.848 mg/kg	0.00168 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	26.5 mg/kg		23.055 mg/kg	0.00231 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		**<LOD**
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		36.4 mg/kg	2.637	83.499 mg/kg	0.00835 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<10 mg/kg	1.405	<14.05 mg/kg	<0.00141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		106 mg/kg	2.469	227.719 mg/kg	0.0228 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11.3 mg/kg	1.462	14.369 mg/kg	0.00144 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.05	pH		7.05	pH	7.05 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0485 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP160-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.309	3	5
2	LOI (loss on ignition)	%	2.31	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.05	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0138	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0264	2	50
14	mercury	mg/kg	0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0103	0.4	10
17	lead	mg/kg	0.0036	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0182	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	59	500	800
26	TDS (total dissolved solids)	mg/kg	178	4,000	60,000

Key

User supplied data

Classification of sample: TP162-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP162-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
4.5%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.5% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		6.9 mg/kg	1.534	10.107 mg/kg	0.00101 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		27 mg/kg	1.233	31.806 mg/kg	0.00318 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.738 mg/kg	1.855	1.307 mg/kg	0.000131 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.126	11.827 mg/kg	0.00118 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	9.61 mg/kg		9.178 mg/kg	0.000918 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.56 mg/kg	1.5	0.802 mg/kg	0.0000802 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		18.5 mg/kg	2.637	46.584 mg/kg	0.00466 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		51 mg/kg	2.469	120.267 mg/kg	0.012 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7.44 mg/kg	1.462	10.385 mg/kg	0.00104 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		9.18	pH		9.18	pH	9.18 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0256 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP162-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.206	3	5
2	LOI (loss on ignition)	%	0.956	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	9.18	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0137	0.5	2
10	barium	mg/kg	0.0134	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0183	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0061	0.4	10
17	lead	mg/kg	0.0021	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0105	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	52.1	500	800
26	TDS (total dissolved solids)	mg/kg	442	4,000	60,000

Key

User supplied data

Classification of sample: TP163-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP163-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.05	mg/kg	1.197	1.094	mg/kg	0.000109 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11	mg/kg	1.534	14.679	mg/kg	0.00147 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		59.3	mg/kg	1.233	63.637	mg/kg	0.00636 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.98	mg/kg	1.855	3.195	mg/kg	0.000319 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.8	mg/kg	1.126	15.476	mg/kg	0.00155 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.3	mg/kg		17.661	mg/kg	0.00177 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.952	mg/kg	1.5	1.243	mg/kg	0.000124 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		32.1	mg/kg	2.637	73.635	mg/kg	0.00736 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.24	mg/kg	1.405	1.516	mg/kg	0.000152 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		114	mg/kg	2.469	244.905	mg/kg	0.0245 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.9	mg/kg	1.462	16.403	mg/kg	0.00164 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		8.57	pH		8.57	pH	8.57 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0465 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP163-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.335	3	5
2	LOI (loss on ignition)	%	2.59	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.57	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0094	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.005	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	<0.01	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	37.8	500	800
26	TDS (total dissolved solids)	mg/kg	548	4,000	60,000

Key

User supplied data

Classification of sample: TP164-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP164-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		<LOD
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11.5 mg/kg	1.534	15.699 mg/kg	0.00157 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		35.4 mg/kg	1.233	38.862 mg/kg	0.00389 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.48 mg/kg	1.855	2.443 mg/kg	0.000244 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.3 mg/kg	1.126	17.335 mg/kg	0.00173 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	27.1 mg/kg		24.119 mg/kg	0.00241 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.739 mg/kg	1.5	0.987 mg/kg	0.0000987 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		30.8 mg/kg	2.637	72.277 mg/kg	0.00723 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		93.3 mg/kg	2.469	205.043 mg/kg	0.0205 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11.6 mg/kg	1.462	15.089 mg/kg	0.00151 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.84	pH		7.84	pH	7.84 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0406 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP164-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.25	3	5
2	LOI (loss on ignition)	%	1.84	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.84	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0064	0.5	2
10	barium	mg/kg	0.0137	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0155	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0082	0.4	10
17	lead	mg/kg	0.0021	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0625	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	68.1	500	800
26	TDS (total dissolved solids)	mg/kg	731	4,000	60,000

Key

User supplied data

Classification of sample: TP166-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP166-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		9.73 mg/kg	1.534	13.134 mg/kg	0.00131 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		55.4 mg/kg	1.233	60.135 mg/kg	0.00601 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.26 mg/kg	1.855	2.056 mg/kg	0.000206 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.5 mg/kg	1.126	15.357 mg/kg	0.00154 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	17.4 mg/kg		15.312 mg/kg	0.00153 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.763 mg/kg	1.5	1.007 mg/kg	0.000101 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		23.2 mg/kg	2.637	53.831 mg/kg	0.00538 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		84.7 mg/kg	2.469	184.051 mg/kg	0.0184 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10.7 mg/kg	1.462	13.762 mg/kg	0.00138 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		8.39	pH		8.39	pH	8.39 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0373 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP166-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.283	3	5
2	LOI (loss on ignition)	%	1.84	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.39	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0089	0.5	2
10	barium	mg/kg	0.0208	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0235	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0123	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.058	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	71.8	500	800
26	TDS (total dissolved solids)	mg/kg	877	4,000	60,000

Key

User supplied data

Classification of sample: TP167-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP167-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.24 mg/kg	1.197	1.262 mg/kg	0.000126 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		15.1 mg/kg	1.534	19.687 mg/kg	0.00197 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		49.9 mg/kg	1.233	52.319 mg/kg	0.00523 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.713 mg/kg	1.855	1.124 mg/kg	0.000112 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19.4 mg/kg	1.126	18.566 mg/kg	0.00186 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	27.1 mg/kg		23.035 mg/kg	0.0023 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.13 mg/kg	1.5	1.441 mg/kg	0.000144 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		35.9 mg/kg	2.637	80.458 mg/kg	0.00805 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.15 mg/kg	1.405	1.373 mg/kg	0.000137 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		122 mg/kg	2.469	256.066 mg/kg	0.0256 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19.1 mg/kg	1.462	23.728 mg/kg	0.00237 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.63	pH		6.63	pH	6.63 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0491 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP167-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.329	3	5
2	LOI (loss on ignition)	%	3.04	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.63	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0056	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0111	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0056	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	<0.01	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	40.7	500	800
26	TDS (total dissolved solids)	mg/kg	200	4,000	60,000

Key

User supplied data

Classification of sample: TP172-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP172-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.921	mg/kg	1.197	0.97	mg/kg	0.000097 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		10.3	mg/kg	1.534	13.903	mg/kg	0.00139 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		70.7	mg/kg	1.233	76.743	mg/kg	0.00767 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.94	mg/kg	1.855	4.798	mg/kg	0.00048 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19	mg/kg	1.126	18.825	mg/kg	0.00188 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	18.8	mg/kg		16.544	mg/kg	0.00165 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.928	mg/kg	1.5	1.225	mg/kg	0.000123 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		38.1	mg/kg	2.637	88.403	mg/kg	0.00884 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.24	mg/kg	1.405	1.533	mg/kg	0.000153 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		122	mg/kg	2.469	265.104	mg/kg	0.0265 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.6	mg/kg	1.462	16.206	mg/kg	0.00162 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				8.49	pH		8.49	pH	8.49 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0516 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP172-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.47	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.49	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0063	0.5	2
10	barium	mg/kg	0.017	20	100
11	cadmium	mg/kg	0.0013	0.04	1
12	chromium	mg/kg	0.0101	0.5	10
13	copper	mg/kg	0.0194	2	50
14	mercury	mg/kg	0.0002	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0236	0.4	10
17	lead	mg/kg	0.0036	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0684	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	57.2	500	800
26	TDS (total dissolved solids)	mg/kg	102	4,000	60,000

Key

User supplied data

Classification of sample: TP173-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP173-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.779 mg/kg	1.197	0.774 mg/kg	0.0000774 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.6 mg/kg	1.534	16.041 mg/kg	0.0016 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		71.2 mg/kg	1.233	72.895 mg/kg	0.00729 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.28 mg/kg	1.855	1.97 mg/kg	0.000197 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.3 mg/kg	1.126	15.232 mg/kg	0.00152 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	23 mg/kg		19.09 mg/kg	0.00191 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.893 mg/kg	1.5	1.112 mg/kg	0.000111 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		27.5 mg/kg	2.637	60.182 mg/kg	0.00602 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.37 mg/kg	1.405	1.598 mg/kg	0.00016 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		105 mg/kg	2.469	215.199 mg/kg	0.0215 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.3 mg/kg	1.462	17.347 mg/kg	0.00173 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.46	pH		6.46	pH	6.46 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0433 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP173-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.397	3	5
2	LOI (loss on ignition)	%	2.61	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.46	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0211	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0158	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0101	0.4	10
17	lead	mg/kg	0.0035	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0679	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	47.5	500	800
26	TDS (total dissolved solids)	mg/kg	179	4,000	60,000

Key

User supplied data

Classification of sample: TP19-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP19-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.833	mg/kg	1.197	0.828	mg/kg	0.0000828 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11.4	mg/kg	1.534	14.514	mg/kg	0.00145 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		52.5	mg/kg	1.233	53.749	mg/kg	0.00537 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.45	mg/kg	1.855	2.232	mg/kg	0.000223 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.3	mg/kg	1.126	16.167	mg/kg	0.00162 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	21.7	mg/kg		18.011	mg/kg	0.0018 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.43	mg/kg	1.5	1.781	mg/kg	0.000178 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		33.8	mg/kg	2.637	73.97	mg/kg	0.0074 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.37	mg/kg	1.405	1.598	mg/kg	0.00016 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		86	mg/kg	2.469	176.258	mg/kg	0.0176 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.1	mg/kg	1.462	15.891	mg/kg	0.00159 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.53	pH		6.53	pH	6.53 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0387 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP19-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.322	3	5
2	LOI (loss on ignition)	%	2.32	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.53	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.008	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0237	2	50
14	mercury	mg/kg	0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0126	0.4	10
17	lead	mg/kg	0.0036	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0452	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	40.9	500	800
26	TDS (total dissolved solids)	mg/kg	134	4,000	60,000

Key

User supplied data

Classification of sample: TP25-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP25-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.603	mg/kg	1.197	0.599	mg/kg	0.0000599 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		17.1	mg/kg	1.534	21.77	mg/kg	0.00218 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		43.3	mg/kg	1.233	44.331	mg/kg	0.00443 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.718	mg/kg	1.855	1.105	mg/kg	0.000111 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22.4	mg/kg	1.126	20.933	mg/kg	0.00209 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	25.7	mg/kg		21.331	mg/kg	0.00213 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.34	mg/kg	1.5	1.669	mg/kg	0.000167 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		45.7	mg/kg	2.637	100.012	mg/kg	0.01 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.01	mg/kg	1.405	1.178	mg/kg	0.000118 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		108	mg/kg	2.469	221.348	mg/kg	0.0221 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	19.409	mg/kg	0.00194 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.39	pH		6.39	pH	6.39 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0465 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP25-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.407	3	5
2	LOI (loss on ignition)	%	2.81	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.39	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0055	0.5	2
10	barium	mg/kg	0.0139	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.019	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0134	0.4	10
17	lead	mg/kg	0.0105	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0793	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	54.8	500	800
26	TDS (total dissolved solids)	mg/kg	136	4,000	60,000

Key

User supplied data

Classification of sample: TP29-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP29-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
20%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.912 mg/kg	1.197	0.873 mg/kg	0.0000873 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		14.5 mg/kg	1.534	17.793 mg/kg	0.00178 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		55.4 mg/kg	1.233	54.668 mg/kg	0.00547 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.92 mg/kg	1.855	4.332 mg/kg	0.000433 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21.2 mg/kg	1.126	19.095 mg/kg	0.00191 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	27.8 mg/kg		22.24 mg/kg	0.00222 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.04 mg/kg	1.5	1.248 mg/kg	0.000125 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		40 mg/kg	2.637	84.374 mg/kg	0.00844 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.71 mg/kg	1.405	1.922 mg/kg	0.000192 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		114 mg/kg	2.469	225.2 mg/kg	0.0225 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.6 mg/kg	1.462	15.902 mg/kg	0.00159 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.75	pH		6.75	pH	6.75 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0459 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP29-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.329	3	5
2	LOI (loss on ignition)	%	2.14	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.75	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0126	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0139	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0062	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	<0.01	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	54.9	500	800
26	TDS (total dissolved solids)	mg/kg	210	4,000	60,000

Key

User supplied data

Classification of sample: TP47-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP47-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.52 mg/kg	1.197	1.583 mg/kg	0.000158 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		26.6 mg/kg	1.534	35.497 mg/kg	0.00355 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		44.8 mg/kg	1.233	48.077 mg/kg	0.00481 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.771 mg/kg	1.855	1.244 mg/kg	0.000124 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.6 mg/kg	1.126	20.178 mg/kg	0.00202 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.8 mg/kg		18.096 mg/kg	0.00181 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.822 mg/kg	1.5	1.073 mg/kg	0.000107 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		26.4 mg/kg	2.637	60.559 mg/kg	0.00606 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.49 mg/kg	1.405	1.821 mg/kg	0.000182 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		96.9 mg/kg	2.469	208.169 mg/kg	0.0208 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.1 mg/kg	1.462	15.386 mg/kg	0.00154 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.74	pH		6.74	pH	6.74 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0423 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP47-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.299	3	5
2	LOI (loss on ignition)	%	2.35	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.74	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0093	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0226	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0074	0.4	10
17	lead	mg/kg	0.0078	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0187	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	48.1	500	800
26	TDS (total dissolved solids)	mg/kg	205	4,000	60,000

Key

User supplied data

Classification of sample: TP48-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP48-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11.4 mg/kg	1.534	15.563 mg/kg	0.00156 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		74 mg/kg	1.233	81.238 mg/kg	0.00812 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.659 mg/kg	1.855	1.088 mg/kg	0.000109 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.6 mg/kg	1.126	17.636 mg/kg	0.00176 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	36.5 mg/kg		32.485 mg/kg	0.00325 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.363 mg/kg	1.5	0.485 mg/kg	0.0000485 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		19.9 mg/kg	2.637	46.698 mg/kg	0.00467 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.03 mg/kg	1.405	1.288 mg/kg	0.000129 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		78.9 mg/kg	2.469	173.396 mg/kg	0.0173 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17.4 mg/kg	1.462	22.634 mg/kg	0.00226 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.88	pH		6.88	pH	6.88 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0405 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP48-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.22	3	5
2	LOI (loss on ignition)	%	1.38	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.88	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.006	0.5	2
10	barium	mg/kg	0.0175	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0167	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0129	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0259	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	38.7	500	800
26	TDS (total dissolved solids)	mg/kg	459	4,000	60,000

Key

User supplied data

Classification of sample: TP50-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP50-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.24	mg/kg	1.197	1.262	mg/kg	0.000126 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		15.6	mg/kg	1.534	20.339	mg/kg	0.00203 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		51.6	mg/kg	1.233	54.101	mg/kg	0.00541 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.964	mg/kg	1.855	1.52	mg/kg	0.000152 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19.9	mg/kg	1.126	19.044	mg/kg	0.0019 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	35.6	mg/kg		30.26	mg/kg	0.00303 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.13	mg/kg	1.5	1.441	mg/kg	0.000144 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		34.4	mg/kg	2.637	77.097	mg/kg	0.00771 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.4	mg/kg	1.405	1.672	mg/kg	0.000167 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		108	mg/kg	2.469	226.681	mg/kg	0.0227 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18.4	mg/kg	1.462	22.859	mg/kg	0.00229 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.67	pH		6.67	pH	6.67 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0468 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP50-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.368	3	5
2	LOI (loss on ignition)	%	2.61	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.67	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0052	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0182	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0058	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.041	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	58	500	800
26	TDS (total dissolved solids)	mg/kg	148	4,000	60,000

Key

User supplied data

Classification of sample: TP51-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP51-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#		Determinand EU CLP index number / EC Number / CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol		☑					
3		antimony { antimony trioxide } 051-005-00-X / 215-175-0 / 1309-64-4		1.09 mg/kg	1.197	1.083 mg/kg	0.000108 %	✓	
4		arsenic { arsenic pentoxide } 033-004-00-6 / 215-116-9 / 1303-28-2		11.9 mg/kg	1.534	15.15 mg/kg	0.00152 %	✓	
5		barium { barium sulphide } 016-002-00-X / 244-214-4 / 21109-95-5		49 mg/kg	1.233	50.166 mg/kg	0.00502 %	✓	
6		cadmium { cadmium sulfate } 048-009-00-9 / 233-331-6 / 10124-36-4		1.94 mg/kg	1.855	2.986 mg/kg	0.000299 %	✓	
7		copper { dicopper oxide; copper (I) oxide } 029-002-00-X / 215-270-7 / 1317-39-1		19.2 mg/kg	1.126	17.942 mg/kg	0.00179 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6	1	30.2 mg/kg		25.066 mg/kg	0.00251 %	✓	
9		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide } 042-001-00-9 / 215-204-7 / 1313-27-5		0.904 mg/kg	1.5	1.126 mg/kg	0.000113 %	✓	
11		nickel { nickel sulfate } 028-009-00-5 / 232-104-9 / 7786-81-4		31.2 mg/kg	2.637	68.28 mg/kg	0.00683 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		1.17 mg/kg	1.405	1.364 mg/kg	0.000136 %	✓	
13		zinc { zinc sulphate } 030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]		91.4 mg/kg	2.469	187.326 mg/kg	0.0187 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 / 1308-38-9		15.5 mg/kg	1.462	18.803 mg/kg	0.00188 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.58	pH		6.58	pH	6.58 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0401 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP51-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.489	3	5
2	LOI (loss on ignition)	%	2.62	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.58	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0075	0.5	2
10	barium	mg/kg	0.0266	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0348	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0167	0.4	10
17	lead	mg/kg	0.0075	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0176	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	6.31	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	45.5	500	800
26	TDS (total dissolved solids)	mg/kg	599	4,000	60,000

Key

User supplied data

Classification of sample: TP52-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP52-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		10.3 mg/kg	1.534	13.587 mg/kg	0.00136 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		34.4 mg/kg	1.233	36.492 mg/kg	0.00365 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.484 mg/kg	1.855	0.772 mg/kg	0.0000772 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11.1 mg/kg	1.126	10.748 mg/kg	0.00107 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.5 mg/kg		17.63 mg/kg	0.00176 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.689 mg/kg	1.5	0.889 mg/kg	0.0000889 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		23 mg/kg	2.637	52.154 mg/kg	0.00522 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		78.6 mg/kg	2.469	166.915 mg/kg	0.0167 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.7 mg/kg	1.462	15.963 mg/kg	0.0016 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.67	pH		6.67	pH	6.67 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0329 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP52-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.267	3	5
2	LOI (loss on ignition)	%	2.22	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.67	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.009	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0146	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0047	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.017	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	50	500	800
26	TDS (total dissolved solids)	mg/kg	<100	4,000	60,000

Key

User supplied data

Classification of sample: TP54-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP54-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		8.48 mg/kg	1.534	11.316 mg/kg	0.00113 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		69.6 mg/kg	1.233	74.691 mg/kg	0.00747 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.722 mg/kg	1.855	1.165 mg/kg	0.000116 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13.6 mg/kg	1.126	13.322 mg/kg	0.00133 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	18.7 mg/kg		16.269 mg/kg	0.00163 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.578 mg/kg	1.5	0.754 mg/kg	0.0000754 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		21.4 mg/kg	2.637	49.09 mg/kg	0.00491 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		92.3 mg/kg	2.469	198.287 mg/kg	0.0198 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.7 mg/kg	1.462	16.149 mg/kg	0.00161 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.92	pH		6.92	pH	6.92 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0395 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP54-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.308	3	5
2	LOI (loss on ignition)	%	2.51	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.92	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.02	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0188	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0061	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0204	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	35.5	500	800
26	TDS (total dissolved solids)	mg/kg	110	4,000	60,000

Key

User supplied data

Classification of sample: TP55-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP55-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.774 mg/kg	1.197	0.825 mg/kg	0.0000825 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		9.84 mg/kg	1.534	13.433 mg/kg	0.00134 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		40 mg/kg	1.233	43.912 mg/kg	0.00439 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.595 mg/kg	1.855	0.982 mg/kg	0.0000982 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.4 mg/kg	1.126	12.425 mg/kg	0.00124 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	19.1 mg/kg		16.999 mg/kg	0.0017 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.683 mg/kg	1.5	0.912 mg/kg	0.0000912 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		30.3 mg/kg	2.637	71.103 mg/kg	0.00711 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		87.7 mg/kg	2.469	192.736 mg/kg	0.0193 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17.6 mg/kg	1.462	22.894 mg/kg	0.00229 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				8.22	pH		8.22	pH	8.22 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0389 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP55-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.231	3	5
2	LOI (loss on ignition)	%	3.8	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.22	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0109	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0104	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0138	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	65.2	500	800
26	TDS (total dissolved solids)	mg/kg	275	4,000	60,000

Key

User supplied data

Classification of sample: TP56-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP56-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.8 mg/kg	1.197	1.896 mg/kg	0.00019 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		8.92 mg/kg	1.534	12.04 mg/kg	0.0012 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		41.9 mg/kg	1.233	45.481 mg/kg	0.00455 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.993 mg/kg	1.855	1.621 mg/kg	0.000162 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		<14 mg/kg	1.126	<15.762 mg/kg	<0.00158 %		**<LOD**
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	24.7 mg/kg		21.736 mg/kg	0.00217 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.631 mg/kg	1.5	0.833 mg/kg	0.0000833 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		27.2 mg/kg	2.637	63.112 mg/kg	0.00631 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		90.1 mg/kg	2.469	195.786 mg/kg	0.0196 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16.2 mg/kg	1.462	20.836 mg/kg	0.00208 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.95	pH		7.95	pH	7.95 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0392 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP56-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.229	3	5
2	LOI (loss on ignition)	%	2.11	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.95	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0096	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0105	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0118	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	44.4	500	800
26	TDS (total dissolved solids)	mg/kg	215	4,000	60,000

Key

User supplied data

Classification of sample: TP57-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP57-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.838	mg/kg	1.197	0.873	mg/kg	0.0000873 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.2	mg/kg	1.534	16.281	mg/kg	0.00163 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		60.7	mg/kg	1.233	65.14	mg/kg	0.00651 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.85	mg/kg	1.855	4.598	mg/kg	0.00046 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25	mg/kg	1.126	24.488	mg/kg	0.00245 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	23.9	mg/kg		20.793	mg/kg	0.00208 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.803	mg/kg	1.5	1.048	mg/kg	0.000105 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		43.8	mg/kg	2.637	100.474	mg/kg	0.01 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.1	mg/kg	1.405	1.345	mg/kg	0.000134 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		109	mg/kg	2.469	234.163	mg/kg	0.0234 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.3	mg/kg	1.462	16.912	mg/kg	0.00169 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0498 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP57-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.216	3	5
2	LOI (loss on ignition)	%	1.75	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.7	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0081	0.5	2
10	barium	mg/kg	0.0245	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.011	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.007	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.097	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	53	500	800
26	TDS (total dissolved solids)	mg/kg	628	4,000	60,000

Key

User supplied data

Classification of sample: TP106-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP106-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
18%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.641	mg/kg	1.197	0.629	mg/kg	0.0000629 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		13.1	mg/kg	1.534	16.477	mg/kg	0.00165 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		90.6	mg/kg	1.233	91.639	mg/kg	0.00916 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.958	mg/kg	1.855	1.457	mg/kg	0.000146 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.3	mg/kg	1.126	16.895	mg/kg	0.00169 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	31.7	mg/kg		25.994	mg/kg	0.0026 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.851	mg/kg	1.5	1.047	mg/kg	0.000105 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		27.7	mg/kg	2.637	59.89	mg/kg	0.00599 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.84	mg/kg	1.405	2.12	mg/kg	0.000212 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		98.1	mg/kg	2.469	198.635	mg/kg	0.0199 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.6	mg/kg	1.462	18.696	mg/kg	0.00187 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				7.84	pH		7.84	pH	7.84 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0445 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP106-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.773	3	5
2	LOI (loss on ignition)	%	4.28	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	6.05	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.84	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0123	0.5	2
10	barium	mg/kg	0.0216	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0221	2	50
14	mercury	mg/kg	0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0115	0.4	10
17	lead	mg/kg	0.0101	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.179	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	7.66	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	66.3	500	800
26	TDS (total dissolved solids)	mg/kg	313	4,000	60,000

Key

User supplied data

Classification of sample: TP109-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP109-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		10.5 mg/kg	1.534	13.368 mg/kg	0.00134 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		42.3 mg/kg	1.233	43.307 mg/kg	0.00433 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.666 mg/kg	1.855	1.025 mg/kg	0.000103 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13.3 mg/kg	1.126	12.429 mg/kg	0.00124 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	26.1 mg/kg		21.663 mg/kg	0.00217 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.709 mg/kg	1.5	0.883 mg/kg	0.0000883 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		35.9 mg/kg	2.637	78.565 mg/kg	0.00786 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.19 mg/kg	1.405	1.388 mg/kg	0.000139 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		97 mg/kg	2.469	198.803 mg/kg	0.0199 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	21.836 mg/kg	0.00218 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.53	pH		6.53	pH	6.53 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0406 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP109-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.348	3	5
2	LOI (loss on ignition)	%	2.45	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.53	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0163	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0288	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0163	0.4	10
17	lead	mg/kg	0.0093	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	1.12	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	82.2	500	800
26	TDS (total dissolved solids)	mg/kg	240	4,000	60,000

Key

User supplied data

Classification of sample: TP112-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP112-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.605	mg/kg	1.197	0.623	mg/kg	0.0000623 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		10.9	mg/kg	1.534	14.379	mg/kg	0.00144 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		56.2	mg/kg	1.233	59.617	mg/kg	0.00596 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.973	mg/kg	1.855	1.552	mg/kg	0.000155 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14.1	mg/kg	1.126	13.653	mg/kg	0.00137 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	22.7	mg/kg		19.522	mg/kg	0.00195 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.795	mg/kg	1.5	1.026	mg/kg	0.000103 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		25.9	mg/kg	2.637	58.73	mg/kg	0.00587 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.14	mg/kg	1.405	1.377	mg/kg	0.000138 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		82.5	mg/kg	2.469	175.197	mg/kg	0.0175 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.5	mg/kg	1.462	15.712	mg/kg	0.00157 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0373 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP112-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.321	3	5
2	LOI (loss on ignition)	%	2.24	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.5	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.01	0.5	2
10	barium	mg/kg	0.0201	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0133	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0085	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.124	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	82.3	500	800
26	TDS (total dissolved solids)	mg/kg	680	4,000	60,000

Key

User supplied data

Classification of sample: TP3-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP3-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6	mg/kg	1.197	<0.718	mg/kg	<0.0000718 %		**<LOD**
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		14.4	mg/kg	1.534	19.658	mg/kg	0.00197 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		34.8	mg/kg	1.233	38.204	mg/kg	0.00382 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.958	mg/kg	1.855	1.581	mg/kg	0.000158 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.5	mg/kg	1.126	16.534	mg/kg	0.00165 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.2	mg/kg		17.978	mg/kg	0.0018 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.696	mg/kg	1.5	0.929	mg/kg	0.0000929 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		42.2	mg/kg	2.637	99.029	mg/kg	0.0099 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		**<LOD**
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		104	mg/kg	2.469	228.558	mg/kg	0.0229 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19.3	mg/kg	1.462	25.105	mg/kg	0.00251 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.21	pH		6.21	pH	6.21 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0461 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP3-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.306	3	5
2	LOI (loss on ignition)	%	2.42	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.21	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0087	20	100
11	cadmium	mg/kg	0.0014	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0165	2	50
14	mercury	mg/kg	0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.01	0.4	10
17	lead	mg/kg	0.0048	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	1	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	75	500	800
26	TDS (total dissolved solids)	mg/kg	142	4,000	60,000

Key

User supplied data

Classification of sample: TP31-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP31-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		10.2 mg/kg	1.534	13.455 mg/kg	0.00135 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		38.8 mg/kg	1.233	41.159 mg/kg	0.00412 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.44 mg/kg	1.855	0.702 mg/kg	0.0000702 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.3 mg/kg	1.126	11.91 mg/kg	0.00119 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	21 mg/kg		18.06 mg/kg	0.00181 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.676 mg/kg	1.5	0.872 mg/kg	0.0000872 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		22.6 mg/kg	2.637	51.247 mg/kg	0.00512 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		78.4 mg/kg	2.469	166.49 mg/kg	0.0166 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.6 mg/kg	1.462	15.837 mg/kg	0.00158 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.95	pH		6.95	pH	6.95 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0334 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP31-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.261	3	5
2	LOI (loss on ignition)	%	2.36	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.95	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.013	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0115	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0043	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0221	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	42.9	500	800
26	TDS (total dissolved solids)	mg/kg	177	4,000	60,000

Key

User supplied data

Classification of sample: TP34-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP34-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.87 mg/kg	1.197	1.858 mg/kg	0.000186 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		25.4 mg/kg	1.534	32.337 mg/kg	0.00323 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		90 mg/kg	1.233	92.142 mg/kg	0.00921 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.61 mg/kg	1.855	2.478 mg/kg	0.000248 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		45.5 mg/kg	1.126	42.519 mg/kg	0.00425 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	44.1 mg/kg		36.603 mg/kg	0.00366 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.5 mg/kg	1.5	1.868 mg/kg	0.000187 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		80.1 mg/kg	2.637	175.295 mg/kg	0.0175 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.31 mg/kg	1.405	1.528 mg/kg	0.000153 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		187 mg/kg	2.469	383.259 mg/kg	0.0383 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24.3 mg/kg	1.462	29.478 mg/kg	0.00295 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.92	pH		6.92	pH	6.92 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0811 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP34-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.37	3	5
2	LOI (loss on ignition)	%	4.07	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.92	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.056	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0102	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0042	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0258	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	52.7	500	800
26	TDS (total dissolved solids)	mg/kg	912	4,000	60,000

Key

User supplied data

Classification of sample: TP37-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP37-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.849 mg/kg	1.197	0.854 mg/kg	0.0000854 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		17 mg/kg	1.534	21.904 mg/kg	0.00219 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		42.1 mg/kg	1.233	43.621 mg/kg	0.00436 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.795 mg/kg	1.855	1.238 mg/kg	0.000124 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.3 mg/kg	1.126	16.361 mg/kg	0.00164 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	29.2 mg/kg		24.528 mg/kg	0.00245 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.887 mg/kg	1.5	1.118 mg/kg	0.000112 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		37.5 mg/kg	2.637	83.056 mg/kg	0.00831 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.15 mg/kg	1.405	1.357 mg/kg	0.000136 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		102 mg/kg	2.469	211.569 mg/kg	0.0212 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.9 mg/kg	1.462	19.521 mg/kg	0.00195 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.58	pH		6.58	pH	6.58 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0437 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP37-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.351	3	5
2	LOI (loss on ignition)	%	2.53	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.58	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0109	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0271	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0132	0.4	10
17	lead	mg/kg	0.0033	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0217	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	5.77	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	49.5	500	800
26	TDS (total dissolved solids)	mg/kg	215	4,000	60,000

Key

User supplied data

Classification of sample: TP38-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP38-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.751 mg/kg	1.197	0.755 mg/kg	0.0000755 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11 mg/kg	1.534	14.173 mg/kg	0.00142 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		30.8 mg/kg	1.233	31.913 mg/kg	0.00319 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.564 mg/kg	1.855	0.879 mg/kg	0.0000879 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13.6 mg/kg	1.126	12.862 mg/kg	0.00129 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	22.6 mg/kg		18.984 mg/kg	0.0019 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.602 mg/kg	1.5	0.759 mg/kg	0.0000759 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		27 mg/kg	2.637	59.8 mg/kg	0.00598 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.02 mg/kg	1.405	1.204 mg/kg	0.00012 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		96.6 mg/kg	2.469	200.369 mg/kg	0.02 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11.9 mg/kg	1.462	14.61 mg/kg	0.00146 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.58	pH		6.58	pH	6.58 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0368 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP38-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.247	3	5
2	LOI (loss on ignition)	%	2.33	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.58	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0068	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0116	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0092	0.4	10
17	lead	mg/kg	0.0038	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0274	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	47.3	500	800
26	TDS (total dissolved solids)	mg/kg	121	4,000	60,000

Key

User supplied data

Classification of sample: TP39-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP39-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		<LOD
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.5 mg/kg	1.534	15.914 mg/kg	0.00159 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		41.3 mg/kg	1.233	42.283 mg/kg	0.00423 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.691 mg/kg	1.855	1.064 mg/kg	0.000106 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.126	14.017 mg/kg	0.0014 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	22.3 mg/kg		18.509 mg/kg	0.00185 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.915 mg/kg	1.5	1.139 mg/kg	0.000114 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		27.2 mg/kg	2.637	59.526 mg/kg	0.00595 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.19 mg/kg	1.405	1.388 mg/kg	0.000139 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		91.6 mg/kg	2.469	187.736 mg/kg	0.0188 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.6 mg/kg	1.462	16.498 mg/kg	0.00165 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.42	pH		6.42	pH	6.42 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0371 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP39-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.417	3	5
2	LOI (loss on ignition)	%	3.15	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.42	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0145	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0244	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0126	0.4	10
17	lead	mg/kg	0.0036	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0488	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	64.9	500	800
26	TDS (total dissolved solids)	mg/kg	224	4,000	60,000

Key

User supplied data

Classification of sample: TP4-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP4-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6	mg/kg	1.197	<0.718	mg/kg	<0.0000718 %		**<LOD**
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11.1	mg/kg	1.534	14.813	mg/kg	0.00148 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		44.2	mg/kg	1.233	47.433	mg/kg	0.00474 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.42	mg/kg	1.855	2.291	mg/kg	0.000229 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22.2	mg/kg	1.126	21.745	mg/kg	0.00217 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	18.2	mg/kg		15.834	mg/kg	0.00158 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.628	mg/kg	1.5	0.82	mg/kg	0.000082 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		59.1	mg/kg	2.637	135.57	mg/kg	0.0136 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		**<LOD**
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		106	mg/kg	2.469	227.719	mg/kg	0.0228 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26.8	mg/kg	1.462	34.078	mg/kg	0.00341 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.68	pH		6.68	pH	6.68 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0514 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP4-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.24	3	5
2	LOI (loss on ignition)	%	2.42	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.68	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0104	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0218	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0095	0.4	10
17	lead	mg/kg	0.0032	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0353	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	44.4	500	800
26	TDS (total dissolved solids)	mg/kg	112	4,000	60,000

Key

User supplied data

Classification of sample: TP42-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP42-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
26%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.857	mg/kg	1.197	0.759	mg/kg	0.0000759 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11.6	mg/kg	1.534	13.167	mg/kg	0.00132 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		37.4	mg/kg	1.233	34.138	mg/kg	0.00341 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.971	mg/kg	1.855	1.333	mg/kg	0.000133 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.2	mg/kg	1.126	14.33	mg/kg	0.00143 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	25.5	mg/kg		18.87	mg/kg	0.00189 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.789	mg/kg	1.5	0.876	mg/kg	0.0000876 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		30.5	mg/kg	2.637	59.51	mg/kg	0.00595 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.07	mg/kg	1.405	1.112	mg/kg	0.000111 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		92	mg/kg	2.469	168.11	mg/kg	0.0168 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.2	mg/kg	1.462	14.276	mg/kg	0.00143 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.44	pH		6.44	pH	6.44 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0338 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP42-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.279	3	5
2	LOI (loss on ignition)	%	2.09	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.44	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0128	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0143	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0086	0.4	10
17	lead	mg/kg	0.0021	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0138	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	30.9	500	800
26	TDS (total dissolved solids)	mg/kg	190	4,000	60,000

Key

User supplied data

Classification of sample: TP44-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP44-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.06 mg/kg	1.197	1.117 mg/kg	0.000112 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.3 mg/kg	1.534	16.603 mg/kg	0.00166 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		33.1 mg/kg	1.233	35.929 mg/kg	0.00359 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.07 mg/kg	1.855	1.746 mg/kg	0.000175 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.1 mg/kg	1.126	16.942 mg/kg	0.00169 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	21 mg/kg		18.48 mg/kg	0.00185 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.834 mg/kg	1.5	1.101 mg/kg	0.00011 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		36.8 mg/kg	2.637	85.386 mg/kg	0.00854 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.06 mg/kg	1.405	1.311 mg/kg	0.000131 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		91.3 mg/kg	2.469	198.393 mg/kg	0.0198 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18.4 mg/kg	1.462	23.666 mg/kg	0.00237 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.68	pH		6.68	pH	6.68 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0412 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP44-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.63	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.68	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0076	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0149	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0108	0.4	10
17	lead	mg/kg	0.0036	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.084	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	49.5	500	800
26	TDS (total dissolved solids)	mg/kg	164	4,000	60,000

Key

User supplied data

Classification of sample: TP45-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP45-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.11	mg/kg	1.197	1.156	mg/kg	0.000116 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11	mg/kg	1.534	14.679	mg/kg	0.00147 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		44	mg/kg	1.233	47.218	mg/kg	0.00472 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.1	mg/kg	1.855	1.775	mg/kg	0.000177 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.3	mg/kg	1.126	15.966	mg/kg	0.0016 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	22.8	mg/kg		19.836	mg/kg	0.00198 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.898	mg/kg	1.5	1.172	mg/kg	0.000117 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		33.1	mg/kg	2.637	75.929	mg/kg	0.00759 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.04	mg/kg	1.405	1.271	mg/kg	0.000127 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		90.9	mg/kg	2.469	195.279	mg/kg	0.0195 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.3	mg/kg	1.462	18.183	mg/kg	0.00182 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6 mg/kg	1.923	<1.154 mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016 mg/kg		<0.016 mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017 mg/kg		<0.017 mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018 mg/kg		<0.018 mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023 mg/kg		<0.023 mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021 mg/kg		<0.021 mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
38		pH			PH		6.43 pH		6.43 pH	6.43 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
									Total:	0.0404 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP45-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.329	3	5
2	LOI (loss on ignition)	%	2.12	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.43	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.005	0.5	2
10	barium	mg/kg	0.018	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.02	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0161	0.4	10
17	lead	mg/kg	0.0076	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0421	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	42.8	500	800
26	TDS (total dissolved solids)	mg/kg	149	4,000	60,000

Key

User supplied data

Classification of sample: TP46-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP46-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.858 mg/kg	1.197	0.873 mg/kg	0.0000873 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.1 mg/kg	1.534	15.776 mg/kg	0.00158 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		63.1 mg/kg	1.233	66.158 mg/kg	0.00662 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.2 mg/kg	1.855	1.892 mg/kg	0.000189 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.9 mg/kg	1.126	16.173 mg/kg	0.00162 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	24.2 mg/kg		20.57 mg/kg	0.00206 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.918 mg/kg	1.5	1.171 mg/kg	0.000117 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		28.3 mg/kg	2.637	63.425 mg/kg	0.00634 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.43 mg/kg	1.405	1.708 mg/kg	0.000171 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		105 mg/kg	2.469	220.385 mg/kg	0.022 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.6 mg/kg	1.462	18.138 mg/kg	0.00181 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.45	pH		6.45	pH	6.45 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0438 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP46-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.447	3	5
2	LOI (loss on ignition)	%	3.06	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.45	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0154	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0296	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0131	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0164	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	64.9	500	800
26	TDS (total dissolved solids)	mg/kg	184	4,000	60,000

Key

User supplied data

Classification of sample: TP5-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP5-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.844	mg/kg	1.197	0.859	mg/kg	0.0000859 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		24.8	mg/kg	1.534	32.334	mg/kg	0.00323 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		39.2	mg/kg	1.233	41.1	mg/kg	0.00411 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.09	mg/kg	1.855	1.718	mg/kg	0.000172 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.8	mg/kg	1.126	16.078	mg/kg	0.00161 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	21.7	mg/kg		18.445	mg/kg	0.00184 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.28	mg/kg	1.5	1.632	mg/kg	0.000163 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		46.6	mg/kg	2.637	104.439	mg/kg	0.0104 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.06	mg/kg	1.405	1.266	mg/kg	0.000127 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		121	mg/kg	2.469	253.967	mg/kg	0.0254 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16.2	mg/kg	1.462	20.126	mg/kg	0.00201 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.93	pH		6.93	pH	6.93 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0504 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP5-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.25	3	5
2	LOI (loss on ignition)	%	2.44	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.93	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0065	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0107	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	0.0042	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0136	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	55.4	500	800
26	TDS (total dissolved solids)	mg/kg	111	4,000	60,000

Key

User supplied data

Classification of sample: TP60-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP60-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.1	mg/kg	1.197	1.119	mg/kg	0.000112 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		13.1	mg/kg	1.534	17.08	mg/kg	0.00171 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		40.2	mg/kg	1.233	42.148	mg/kg	0.00421 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.68	mg/kg	1.855	2.648	mg/kg	0.000265 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.7	mg/kg	1.126	16.939	mg/kg	0.00169 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	26.5	mg/kg		22.525	mg/kg	0.00225 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.04	mg/kg	1.5	1.326	mg/kg	0.000133 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		37.3	mg/kg	2.637	83.596	mg/kg	0.00836 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.26	mg/kg	1.405	1.505	mg/kg	0.00015 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		106	mg/kg	2.469	222.484	mg/kg	0.0222 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16.7	mg/kg	1.462	20.747	mg/kg	0.00207 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.33	pH		6.33	pH	6.33 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0444 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP60-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.338	3	5
2	LOI (loss on ignition)	%	2.33	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.33	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.011	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0168	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0096	0.4	10
17	lead	mg/kg	0.0036	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0245	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	45.3	500	800
26	TDS (total dissolved solids)	mg/kg	186	4,000	60,000

Key

User supplied data

Classification of sample: TP61-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP61-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.937 mg/kg	1.197	0.976 mg/kg	0.0000976 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		41.6 mg/kg	1.534	55.514 mg/kg	0.00555 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		46.3 mg/kg	1.233	49.686 mg/kg	0.00497 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.615 mg/kg	1.855	0.992 mg/kg	0.0000992 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13.4 mg/kg	1.126	13.126 mg/kg	0.00131 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	28.9 mg/kg		25.143 mg/kg	0.00251 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.875 mg/kg	1.5	1.142 mg/kg	0.000114 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		32.6 mg/kg	2.637	74.782 mg/kg	0.00748 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.22 mg/kg	1.405	1.491 mg/kg	0.000149 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		89.7 mg/kg	2.469	192.701 mg/kg	0.0193 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.8 mg/kg	1.462	20.091 mg/kg	0.00201 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.65	pH		7.65	pH	7.65 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0447 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP61-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.212	3	5
2	LOI (loss on ignition)	%	1.97	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.65	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0081	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0164	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.008	0.4	10
17	lead	mg/kg	0.0046	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0387	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	44.5	500	800
26	TDS (total dissolved solids)	mg/kg	162	4,000	60,000

Key

User supplied data

Classification of sample: TP62-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP62-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		10.6 mg/kg	1.534	14.145 mg/kg	0.00141 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		51.1 mg/kg	1.233	54.837 mg/kg	0.00548 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.936 mg/kg	1.855	1.51 mg/kg	0.000151 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14.7 mg/kg	1.126	14.399 mg/kg	0.00144 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	18.1 mg/kg		15.747 mg/kg	0.00157 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.557 mg/kg	1.5	0.727 mg/kg	0.0000727 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		24.1 mg/kg	2.637	55.283 mg/kg	0.00553 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		77.9 mg/kg	2.469	167.352 mg/kg	0.0167 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.1 mg/kg	1.462	15.386 mg/kg	0.00154 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				8.28	pH		8.28	pH	8.28 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0353 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP62-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.391	3	5
2	LOI (loss on ignition)	%	2.08	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	5.54	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.28	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0118	0.5	2
10	barium	mg/kg	0.0424	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	0.0103	0.5	10
13	copper	mg/kg	0.0187	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.011	0.4	10
17	lead	mg/kg	0.0023	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	<0.01	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	83.6	500	800
26	TDS (total dissolved solids)	mg/kg	751	4,000	60,000

Key

User supplied data

Classification of sample: TP63-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP63-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
6.7%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.7% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		<LOD
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.3 mg/kg	1.534	17.603 mg/kg	0.00176 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		37.6 mg/kg	1.233	43.272 mg/kg	0.00433 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.43 mg/kg	1.855	2.474 mg/kg	0.000247 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.8 mg/kg	1.126	13.446 mg/kg	0.00134 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	11.7 mg/kg		10.916 mg/kg	0.00109 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.707 mg/kg	1.5	0.99 mg/kg	0.000099 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		21 mg/kg	2.637	51.661 mg/kg	0.00517 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		61.3 mg/kg	2.469	141.226 mg/kg	0.0141 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10.8 mg/kg	1.462	14.727 mg/kg	0.00147 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		9	pH		9	pH	9pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.031 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP63-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	0.84	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	9	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.012	0.5	2
10	barium	mg/kg	0.0152	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0036	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0305	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	37	500	800
26	TDS (total dissolved solids)	mg/kg	429	4,000	60,000

Key

User supplied data

Classification of sample: TP64-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP64-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
4.5%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.5% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<6 mg/kg	1.197	<7.183 mg/kg	<0.000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		7.3 mg/kg	1.534	10.693 mg/kg	0.00107 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		31.3 mg/kg	1.233	36.871 mg/kg	0.00369 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.387 mg/kg	1.855	0.685 mg/kg	0.0000685 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		<14 mg/kg	1.126	<15.762 mg/kg	<0.00158 %		**<LOD**
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	10.3 mg/kg		9.837 mg/kg	0.000984 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		**<LOD**
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		17 mg/kg	2.637	42.807 mg/kg	0.00428 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<10 mg/kg	1.405	<14.05 mg/kg	<0.00141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		41.7 mg/kg	2.469	98.336 mg/kg	0.00983 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		<0.9 mg/kg	1.462	<1.315 mg/kg	<0.000132 %		**<LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.0167	mg/kg		0.0159	mg/kg	0.00000159 %	✓	
25		chrysene	601-048-00-0	205-923-4	218-01-9		0.0152	mg/kg		0.0145	mg/kg	0.00000145 %	✓	
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.0253	mg/kg		0.0242	mg/kg	0.00000242 %	✓	
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.0208	mg/kg		0.0199	mg/kg	0.00000199 %	✓	
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		9.29	pH		9.29	pH	9.29 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0252 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP64-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	0.842	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	9.29	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0181	0.5	2
10	barium	mg/kg	0.0172	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0039	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0352	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	<30	500	800
26	TDS (total dissolved solids)	mg/kg	426	4,000	60,000

Key

User supplied data

Classification of sample: TP65-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP65-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.749	mg/kg	1.197	0.798	mg/kg	0.0000798 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		21	mg/kg	1.534	28.668	mg/kg	0.00287 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		54.5	mg/kg	1.233	59.831	mg/kg	0.00598 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.33	mg/kg	1.855	2.195	mg/kg	0.00022 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.7	mg/kg	1.126	17.736	mg/kg	0.00177 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	21.5	mg/kg		19.135	mg/kg	0.00191 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.819	mg/kg	1.5	1.094	mg/kg	0.000109 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		33.4	mg/kg	2.637	78.378	mg/kg	0.00784 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		**<LOD**
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		87.5	mg/kg	2.469	192.296	mg/kg	0.0192 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.2	mg/kg	1.462	19.772	mg/kg	0.00198 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		8.55	pH		8.55	pH	8.55 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0433 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP65-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.71	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.55	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.006	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0094	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0045	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0207	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	43.2	500	800
26	TDS (total dissolved solids)	mg/kg	560	4,000	60,000

Key

User supplied data

Classification of sample: TP66-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP66-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		8.82 mg/kg	1.534	11.499 mg/kg	0.00115 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		51.4 mg/kg	1.233	53.891 mg/kg	0.00539 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.538 mg/kg	1.855	0.848 mg/kg	0.0000848 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10 mg/kg	1.126	9.57 mg/kg	0.000957 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	21 mg/kg		17.85 mg/kg	0.00179 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.867 mg/kg	1.5	1.106 mg/kg	0.000111 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		14.2 mg/kg	2.637	31.825 mg/kg	0.00318 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.18 mg/kg	1.405	1.409 mg/kg	0.000141 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		73.3 mg/kg	2.469	153.85 mg/kg	0.0154 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11.4 mg/kg	1.462	14.162 mg/kg	0.00142 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.78	pH		6.78	pH	6.78 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0309 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP66-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.441	3	5
2	LOI (loss on ignition)	%	2.94	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.78	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0273	20	100
11	cadmium	mg/kg	0.0017	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0269	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	0.0801	0.5	10
16	nickel	mg/kg	0.009	0.4	10
17	lead	mg/kg	0.0022	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.348	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	93.8	500	800
26	TDS (total dissolved solids)	mg/kg	336	4,000	60,000

Key

User supplied data

Classification of sample: TP68-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP68-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<6 mg/kg	1.197	<7.183 mg/kg	<0.000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.7 mg/kg	1.534	16.753 mg/kg	0.00168 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		46.6 mg/kg	1.233	49.433 mg/kg	0.00494 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.422 mg/kg	1.855	0.673 mg/kg	0.0000673 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.126	16.46 mg/kg	0.00165 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	22 mg/kg		18.92 mg/kg	0.00189 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		**<LOD**
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		26 mg/kg	2.637	58.956 mg/kg	0.0059 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<10 mg/kg	1.405	<14.05 mg/kg	<0.00141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		86.4 mg/kg	2.469	183.479 mg/kg	0.0183 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.5 mg/kg	1.462	16.969 mg/kg	0.0017 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.58	pH		6.58	pH	6.58 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0397 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP68-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.343	3	5
2	LOI (loss on ignition)	%	2.56	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.58	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0168	20	100
11	cadmium	mg/kg	0.0051	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0187	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0074	0.4	10
17	lead	mg/kg	0.0037	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0322	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	50.5	500	800
26	TDS (total dissolved solids)	mg/kg	132	4,000	60,000

Key

User supplied data

Classification of sample: TP69-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP69-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.751	mg/kg	1.197	0.755	mg/kg	0.0000755 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		13.3	mg/kg	1.534	17.136	mg/kg	0.00171 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		47.6	mg/kg	1.233	49.32	mg/kg	0.00493 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.721	mg/kg	1.855	1.123	mg/kg	0.000112 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19	mg/kg	1.126	17.969	mg/kg	0.0018 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	23.9	mg/kg		20.076	mg/kg	0.00201 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.15	mg/kg	1.5	1.449	mg/kg	0.000145 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		42.6	mg/kg	2.637	94.351	mg/kg	0.00944 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.25	mg/kg	1.405	1.475	mg/kg	0.000148 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		107	mg/kg	2.469	221.94	mg/kg	0.0222 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.5	mg/kg	1.462	19.029	mg/kg	0.0019 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		7.02	pH		7.02	pH	7.02 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0456 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP69-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.302	3	5
2	LOI (loss on ignition)	%	2.37	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.02	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0074	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0118	2	50
14	mercury	mg/kg	0.0002	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0051	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0173	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	49.6	500	800
26	TDS (total dissolved solids)	mg/kg	113	4,000	60,000

Key

User supplied data

Classification of sample: TP7-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP7-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.672 mg/kg	1.197	0.692 mg/kg	0.0000692 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		14.8 mg/kg	1.534	19.523 mg/kg	0.00195 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		49.8 mg/kg	1.233	52.828 mg/kg	0.00528 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.737 mg/kg	1.855	1.175 mg/kg	0.000118 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	13.556 mg/kg	0.00136 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	22.7 mg/kg		19.522 mg/kg	0.00195 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.705 mg/kg	1.5	0.91 mg/kg	0.000091 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		29.7 mg/kg	2.637	67.346 mg/kg	0.00673 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.18 mg/kg	1.405	1.426 mg/kg	0.000143 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		88.9 mg/kg	2.469	188.788 mg/kg	0.0189 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.5 mg/kg	1.462	16.969 mg/kg	0.0017 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.3	pH		6.3	pH	6.3 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0395 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP7-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.322	3	5
2	LOI (loss on ignition)	%	2.56	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.3	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0054	0.5	2
10	barium	mg/kg	0.0287	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0187	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0153	0.4	10
17	lead	mg/kg	0.0101	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0681	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	57.1	500	800
26	TDS (total dissolved solids)	mg/kg	319	4,000	60,000

Key

User supplied data

Classification of sample: TP70-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP70-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.18 mg/kg	1.197	1.215 mg/kg	0.000121 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		12.1 mg/kg	1.534	15.962 mg/kg	0.0016 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		41 mg/kg	1.233	43.493 mg/kg	0.00435 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.931 mg/kg	1.855	1.485 mg/kg	0.000148 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.5 mg/kg	1.126	15.008 mg/kg	0.0015 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	23.2 mg/kg		19.952 mg/kg	0.002 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.944 mg/kg	1.5	1.218 mg/kg	0.000122 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		33.8 mg/kg	2.637	76.643 mg/kg	0.00766 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.29 mg/kg	1.405	1.559 mg/kg	0.000156 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		90 mg/kg	2.469	191.124 mg/kg	0.0191 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15.6 mg/kg	1.462	19.608 mg/kg	0.00196 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.53	pH		6.53	pH	6.53 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0399 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP70-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.348	3	5
2	LOI (loss on ignition)	%	2.45	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.53	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0201	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0274	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0087	0.4	10
17	lead	mg/kg	0.0041	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0495	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	45.6	500	800
26	TDS (total dissolved solids)	mg/kg	274	4,000	60,000

Key

User supplied data

Classification of sample: TP71-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP71-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.921 mg/kg	1.197	0.915 mg/kg	0.0000915 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		16.1 mg/kg	1.534	20.497 mg/kg	0.00205 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		59.3 mg/kg	1.233	60.711 mg/kg	0.00607 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.75 mg/kg	1.855	2.694 mg/kg	0.000269 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19.2 mg/kg	1.126	17.942 mg/kg	0.00179 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	28.3 mg/kg		23.489 mg/kg	0.00235 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.08 mg/kg	1.5	1.345 mg/kg	0.000134 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		44.4 mg/kg	2.637	97.167 mg/kg	0.00972 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.93 mg/kg	1.405	2.251 mg/kg	0.000225 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		140 mg/kg	2.469	286.932 mg/kg	0.0287 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	20.623 mg/kg	0.00206 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.38	pH		6.38	pH	6.38 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0546 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP71-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.391	3	5
2	LOI (loss on ignition)	%	2.83	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.38	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0069	20	100
11	cadmium	mg/kg	0.0013	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0162	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0058	0.4	10
17	lead	mg/kg	0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0146	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	57.2	500	800
26	TDS (total dissolved solids)	mg/kg	137	4,000	60,000

Key

User supplied data

Classification of sample: TP74-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP74-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.702 mg/kg	1.197	0.723 mg/kg	0.0000723 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11.8 mg/kg	1.534	15.566 mg/kg	0.00156 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		38.9 mg/kg	1.233	41.265 mg/kg	0.00413 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.2 mg/kg	1.855	1.914 mg/kg	0.000191 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.5 mg/kg	1.126	17.913 mg/kg	0.00179 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	20.5 mg/kg		17.63 mg/kg	0.00176 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.663 mg/kg	1.5	0.855 mg/kg	0.0000855 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		42.1 mg/kg	2.637	95.464 mg/kg	0.00955 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		102 mg/kg	2.469	216.607 mg/kg	0.0217 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23.4 mg/kg	1.462	29.412 mg/kg	0.00294 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.76	pH		6.76	pH	6.76 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0451 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP74-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	1.87	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.76	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0047	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0101	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.035	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	34.9	500	800
26	TDS (total dissolved solids)	mg/kg	174	4,000	60,000

Key

User supplied data

Classification of sample: TP77-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP77-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11.2 mg/kg	1.534	14.431 mg/kg	0.00144 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		48.5 mg/kg	1.233	50.253 mg/kg	0.00503 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.485 mg/kg	1.855	0.756 mg/kg	0.0000756 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10.7 mg/kg	1.126	10.119 mg/kg	0.00101 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	25.2 mg/kg		21.168 mg/kg	0.00212 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.878 mg/kg	1.5	1.106 mg/kg	0.000111 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		15.5 mg/kg	2.637	34.33 mg/kg	0.00343 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.52 mg/kg	1.405	1.794 mg/kg	0.000179 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		80.5 mg/kg	2.469	166.974 mg/kg	0.0167 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.2 mg/kg	1.462	14.978 mg/kg	0.0015 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.8	pH		6.8	pH	6.8 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0328 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP77-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.411	3	5
2	LOI (loss on ignition)	%	3.7	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.8	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0109	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0082	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0138	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	51.8	500	800
26	TDS (total dissolved solids)	mg/kg	157	4,000	60,000

Key

User supplied data

Classification of sample: TP78-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP78-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.12 mg/kg	1.197	1.126 mg/kg	0.000113 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		15.4 mg/kg	1.534	19.842 mg/kg	0.00198 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		60.7 mg/kg	1.233	62.893 mg/kg	0.00629 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.4 mg/kg	1.855	2.181 mg/kg	0.000218 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25.9 mg/kg	1.126	24.495 mg/kg	0.00245 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	47.4 mg/kg		39.816 mg/kg	0.00398 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.38 mg/kg	1.5	1.739 mg/kg	0.000174 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		41.6 mg/kg	2.637	92.136 mg/kg	0.00921 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.32 mg/kg	1.405	1.558 mg/kg	0.000156 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		122 mg/kg	2.469	253.053 mg/kg	0.0253 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16.1 mg/kg	1.462	19.766 mg/kg	0.00198 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.61	pH		6.61	pH	6.61 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.053 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP78-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.339	3	5
2	LOI (loss on ignition)	%	2.64	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.61	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0195	20	100
11	cadmium	mg/kg	0.0147	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0174	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	0.0594	0.5	10
16	nickel	mg/kg	0.0118	0.4	10
17	lead	mg/kg	0.0093	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.289	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	57.5	500	800
26	TDS (total dissolved solids)	mg/kg	202	4,000	60,000

Key

User supplied data

Classification of sample: TP80-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP80-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
4.7%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.7% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		6.55 mg/kg	1.534	9.575 mg/kg	0.000957 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		28.7 mg/kg	1.233	33.737 mg/kg	0.00337 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.918 mg/kg	1.855	1.622 mg/kg	0.000162 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9.25 mg/kg	1.126	9.925 mg/kg	0.000992 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12.1 mg/kg		11.531 mg/kg	0.00115 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.65 mg/kg	1.5	0.929 mg/kg	0.0000929 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		16.5 mg/kg	2.637	41.461 mg/kg	0.00415 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		57.2 mg/kg	2.469	134.605 mg/kg	0.0135 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.17 mg/kg	1.462	12.773 mg/kg	0.00128 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		9.11	pH		9.11	pH	9.11 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.027 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP80-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	0.817	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	9.11	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0095	0.5	2
10	barium	mg/kg	0.0092	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0069	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	0.0025	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	<0.01	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	<30	500	800
26	TDS (total dissolved solids)	mg/kg	439	4,000	60,000

Key

User supplied data

Classification of sample: TP82-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP82-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
6.3%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.3% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		6.05 mg/kg	1.534	8.695 mg/kg	0.00087 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		29.2 mg/kg	1.233	33.749 mg/kg	0.00337 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.922 mg/kg	1.855	1.602 mg/kg	0.00016 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11.3 mg/kg	1.126	11.921 mg/kg	0.00119 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	11.5 mg/kg		10.776 mg/kg	0.00108 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.57 mg/kg	1.5	0.801 mg/kg	0.0000801 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		17.3 mg/kg	2.637	42.741 mg/kg	0.00427 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		60.3 mg/kg	2.469	139.518 mg/kg	0.014 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7.95 mg/kg	1.462	10.887 mg/kg	0.00109 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0275 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP82-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	<0.2	3	5
2	LOI (loss on ignition)	%	0.916	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.8	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0102	0.5	2
10	barium	mg/kg	0.0106	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.011	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0339	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	44	500	800
26	TDS (total dissolved solids)	mg/kg	504	4,000	60,000

Key

User supplied data

Classification of sample: TP85-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP85-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.23 mg/kg	1.197	1.252 mg/kg	0.000125 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		18.7 mg/kg	1.534	24.381 mg/kg	0.00244 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		69.7 mg/kg	1.233	73.078 mg/kg	0.00731 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.2 mg/kg	1.855	1.892 mg/kg	0.000189 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.6 mg/kg	1.126	19.714 mg/kg	0.00197 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	30.9 mg/kg		26.265 mg/kg	0.00263 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.5 mg/kg	1.5	1.913 mg/kg	0.000191 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		39.6 mg/kg	2.637	88.751 mg/kg	0.00888 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.41 mg/kg	1.405	1.684 mg/kg	0.000168 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		120 mg/kg	2.469	251.868 mg/kg	0.0252 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18.2 mg/kg	1.462	22.61 mg/kg	0.00226 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				7.39	pH		7.39	pH	7.39 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0525 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP85-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.406	3	5
2	LOI (loss on ignition)	%	2.47	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.39	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0181	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0204	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0131	0.4	10
17	lead	mg/kg	0.003	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0187	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	63.9	500	800
26	TDS (total dissolved solids)	mg/kg	256	4,000	60,000

Key

User supplied data

Classification of sample: TP87-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP87-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2.99 mg/kg	1.197	3.042 mg/kg	0.000304 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		8.26 mg/kg	1.534	10.769 mg/kg	0.00108 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		48.1 mg/kg	1.233	50.431 mg/kg	0.00504 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.24 mg/kg	1.855	3.531 mg/kg	0.000353 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		<1.4 mg/kg	1.126	<1.576 mg/kg	<0.000158 %		**<LOD**
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	17.4 mg/kg		14.79 mg/kg	0.00148 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.59 mg/kg	1.353	1.829 mg/kg	0.000183 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.24 mg/kg	1.5	2.856 mg/kg	0.000286 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		19.4 mg/kg	2.637	43.479 mg/kg	0.00435 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				2.14 mg/kg	1.405	2.556 mg/kg	0.000256 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		102 mg/kg	2.469	214.088 mg/kg	0.0214 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		<0.9 mg/kg	1.462	<1.315 mg/kg	<0.000132 %		**<LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.48	pH		6.48	pH	6.48 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0362 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP87-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.214	3	5
2	LOI (loss on ignition)	%	2.01	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.48	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0105	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0119	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0071	0.4	10
17	lead	mg/kg	0.0065	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0423	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	45	500	800
26	TDS (total dissolved solids)	mg/kg	135	4,000	60,000

Key

User supplied data

Classification of sample: TP91-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP91-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
21%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		44.1	mg/kg		34.839	mg/kg	0.00348 %	✓	
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.871	mg/kg	1.197	0.824	mg/kg	0.0000824 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		13.5	mg/kg	1.534	16.359	mg/kg	0.00164 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		51	mg/kg	1.233	49.697	mg/kg	0.00497 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.836	mg/kg	1.855	1.225	mg/kg	0.000122 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.5	mg/kg	1.126	15.565	mg/kg	0.00156 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	37.5	mg/kg		29.625	mg/kg	0.00296 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.09	mg/kg	1.5	1.292	mg/kg	0.000129 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		21.8	mg/kg	2.637	45.409	mg/kg	0.00454 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.53	mg/kg	1.405	1.698	mg/kg	0.00017 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		96.7	mg/kg	2.469	188.637	mg/kg	0.0189 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14	mg/kg	1.462	16.165	mg/kg	0.00162 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				5.99	pH		5.99	pH	5.99 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0403 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because HP 3 can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00348%)

WAC results for sample: TP91-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample FAILS the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	1.27	3	5
2	LOI (loss on ignition)	%	5.5	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	7.77	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	5.99	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0213	0.5	2
10	barium	mg/kg	0.0766	20	100
11	cadmium	mg/kg	0.0025	0.04	1
12	chromium	mg/kg	0.0101	0.5	10
13	copper	mg/kg	0.0931	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0339	0.4	10
17	lead	mg/kg	0.0125	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0311	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	65	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	154	500	800
26	TDS (total dissolved solids)	mg/kg	1100	4,000	60,000

Key

	User supplied data
	Non Hazardous WAC criteria fail

Classification of sample: TP92-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP92-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2		confirm TPH has NOT arisen from diesel or petrol					☑							
3		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		4.91	mg/kg	1.197	4.879	mg/kg	0.000488 %	✓	
4		arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		77.8	mg/kg	1.534	99.048	mg/kg	0.0099 %	✓	
5		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		84.1	mg/kg	1.233	86.102	mg/kg	0.00861 %	✓	
6		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		2.16	mg/kg	1.855	3.325	mg/kg	0.000332 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21.3	mg/kg	1.126	19.905	mg/kg	0.00199 %	✓	
8		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	111	mg/kg		92.13	mg/kg	0.00921 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.61	mg/kg	1.5	2.005	mg/kg	0.0002 %	✓	
11		nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		37.7	mg/kg	2.637	82.505	mg/kg	0.00825 %	✓	
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				2.31	mg/kg	1.405	2.694	mg/kg	0.000269 %	✓	
13		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		355	mg/kg	2.469	727.578	mg/kg	0.0728 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		<0.9	mg/kg	1.462	<1.315	mg/kg	<0.000132 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				7.48	pH		7.48	pH	7.48 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.113 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP92-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.528	3	5
2	LOI (loss on ignition)	%	4.17	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	7.48	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0079	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0119	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0045	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.218	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	92.7	500	800
26	TDS (total dissolved solids)	mg/kg	298	4,000	60,000

Key

User supplied data

Classification of sample: TP93-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP93-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
18%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.669 mg/kg	1.197	0.657 mg/kg	0.0000657 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11 mg/kg	1.534	13.836 mg/kg	0.00138 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		47 mg/kg	1.233	47.539 mg/kg	0.00475 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.545 mg/kg	1.855	0.829 mg/kg	0.0000829 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14.1 mg/kg	1.126	13.018 mg/kg	0.0013 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	25.6 mg/kg		20.992 mg/kg	0.0021 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.01 mg/kg	1.5	1.242 mg/kg	0.000124 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		18.7 mg/kg	2.637	40.431 mg/kg	0.00404 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.51 mg/kg	1.405	1.74 mg/kg	0.000174 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		86.6 mg/kg	2.469	175.35 mg/kg	0.0175 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12.5 mg/kg	1.462	14.981 mg/kg	0.0015 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
16		naphthalene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
17		acenaphthylene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
			205-917-1	208-96-8									
18		acenaphthene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
			201-469-6	83-32-9									
19		fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-695-5	86-73-7									
20		phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			201-581-5	85-01-8									
21		anthracene				<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
			204-371-1	120-12-7									
22		fluoranthene				<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
			205-912-4	206-44-0									
23		pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
			204-927-3	129-00-0									
24		benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
25		chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
26		benzo[b]fluoranthene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
27		benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
28		benzo[a]pyrene; benzo[def]chrysene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
29		indeno[123-cd]pyrene				<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
			205-893-2	193-39-5									
30		dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
31		benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
			205-883-8	191-24-2									
32		polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
34		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
35		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		ethylbenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
37		coronene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-881-7	191-07-1									
38		pH				6.78	pH		6.78	pH	6.78 pH		
				PH									
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
										Total:	0.0342 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP93-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.514	3	5
2	LOI (loss on ignition)	%	3.35	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.78	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0064	0.5	2
10	barium	mg/kg	0.018	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0516	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0167	0.4	10
17	lead	mg/kg	0.0084	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.108	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	5.49	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	80.6	500	800
26	TDS (total dissolved solids)	mg/kg	272	4,000	60,000

Key

User supplied data

Classification of sample: TP94-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP94-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑							
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.735	mg/kg	1.197	0.73	mg/kg	0.000073 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		13.5	mg/kg	1.534	17.187	mg/kg	0.00172 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		52.9	mg/kg	1.233	54.159	mg/kg	0.00542 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.911	mg/kg	1.855	1.402	mg/kg	0.00014 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19.4	mg/kg	1.126	18.129	mg/kg	0.00181 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	26.3	mg/kg		21.829	mg/kg	0.00218 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.998	mg/kg	1.5	1.243	mg/kg	0.000124 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		36.1	mg/kg	2.637	79.003	mg/kg	0.0079 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.13	mg/kg	1.405	1.318	mg/kg	0.000132 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		112	mg/kg	2.469	229.546	mg/kg	0.023 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.2	mg/kg	1.462	17.226	mg/kg	0.00172 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		8.16	pH		8.16	pH	8.16 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0454 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP94-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.346	3	5
2	LOI (loss on ignition)	%	2.61	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	8.16	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0084	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0121	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	<0.004	0.4	10
17	lead	mg/kg	<0.002	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0348	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	51.5	500	800
26	TDS (total dissolved solids)	mg/kg	555	4,000	60,000

Key

User supplied data

Classification of sample: TP95-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP95-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.6 mg/kg	1.197	<0.718 mg/kg	<0.0000718 %		**<LOD**
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		11.1 mg/kg	1.534	14.472 mg/kg	0.00145 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		49.9 mg/kg	1.233	52.319 mg/kg	0.00523 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.661 mg/kg	1.855	1.042 mg/kg	0.000104 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13.3 mg/kg	1.126	12.728 mg/kg	0.00127 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	26 mg/kg		22.1 mg/kg	0.00221 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.913 mg/kg	1.5	1.164 mg/kg	0.000116 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		22.5 mg/kg	2.637	50.427 mg/kg	0.00504 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.49 mg/kg	1.405	1.779 mg/kg	0.000178 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		94.5 mg/kg	2.469	198.346 mg/kg	0.0198 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13.9 mg/kg	1.462	17.268 mg/kg	0.00173 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.017	mg/kg		<0.017	mg/kg	<0.0000017 %		<LOD
23		pyrene		204-927-3	129-00-0		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
25		chrysene	601-048-00-0	205-923-4	218-01-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.32	pH		6.32	pH	6.32 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0384 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP95-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.484	3	5
2	LOI (loss on ignition)	%	2.91	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	<5	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.32	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	<0.005	0.5	2
10	barium	mg/kg	0.0167	20	100
11	cadmium	mg/kg	<0.0008	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0278	2	50
14	mercury	mg/kg	0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0077	0.4	10
17	lead	mg/kg	0.0055	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.017	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	62.2	500	800
26	TDS (total dissolved solids)	mg/kg	165	4,000	60,000

Key

User supplied data

Classification of sample: TP97-090523-0.50-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP97-090523-0.50-0.50
Sample Depth:
0.50 m
Moisture content:
18%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
2	confirm TPH has NOT arisen from diesel or petrol					☑					
3	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.998 mg/kg	1.197	0.98 mg/kg	0.000098 %	✓	
4	arsenic { arsenic pentoxide }	033-004-00-6	215-116-9	1303-28-2		14.5 mg/kg	1.534	18.238 mg/kg	0.00182 %	✓	
5	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		46.3 mg/kg	1.233	46.831 mg/kg	0.00468 %	✓	
6	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.829 mg/kg	1.855	1.261 mg/kg	0.000126 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.1 mg/kg	1.126	16.71 mg/kg	0.00167 %	✓	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	33.3 mg/kg		27.306 mg/kg	0.00273 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		**<LOD**
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.17 mg/kg	1.5	1.439 mg/kg	0.000144 %	✓	
11	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4		22.7 mg/kg	2.637	49.079 mg/kg	0.00491 %	✓	
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.08 mg/kg	1.405	1.244 mg/kg	0.000124 %	✓	
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		88.2 mg/kg	2.469	178.589 mg/kg	0.0179 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14.3 mg/kg	1.462	17.138 mg/kg	0.00171 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
16		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
17		acenaphthylene		205-917-1	208-96-8		<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
18		acenaphthene		201-469-6	83-32-9		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
19		fluorene		201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		phenanthrene		201-581-5	85-01-8		0.0317	mg/kg		0.026	mg/kg	0.0000026 %	✓	
21		anthracene		204-371-1	120-12-7		<0.016	mg/kg		<0.016	mg/kg	<0.0000016 %		<LOD
22		fluoranthene		205-912-4	206-44-0		0.0372	mg/kg		0.0305	mg/kg	0.00000305 %	✓	
23		pyrene		204-927-3	129-00-0		0.0334	mg/kg		0.0274	mg/kg	0.00000274 %	✓	
24		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.025	mg/kg		0.0205	mg/kg	0.00000205 %	✓	
25		chrysene	601-048-00-0	205-923-4	218-01-9		0.0239	mg/kg		0.0196	mg/kg	0.00000196 %	✓	
26		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.0252	mg/kg		0.0207	mg/kg	0.00000207 %	✓	
27		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.019	mg/kg		0.0156	mg/kg	0.00000156 %	✓	
28		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
29		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.018	mg/kg		<0.018	mg/kg	<0.0000018 %		<LOD
30		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
31		benzo[ghi]perylene		205-883-8	191-24-2		<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
32		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		benzene	601-020-00-8	200-753-7	71-43-2		<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
36		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
38		pH			PH		6.21	pH		6.21	pH	6.21 pH		
39		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0371 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: TP97-090523-0.50-0.50

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"
The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the Inert (Inert waste landfill) criteria.

The sample PASSES the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.623	3	5
2	LOI (loss on ignition)	%	3.26	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.021	1	-
5	Mineral oil (C10 to C40)	mg/kg	8.06	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<10	100	-
7	pH	pH	6.21	-	>6
8	ANC (acid neutralisation capacity)	mol/kg		-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.0071	0.5	2
10	barium	mg/kg	0.0131	20	100
11	cadmium	mg/kg	0.0052	0.04	1
12	chromium	mg/kg	<0.01	0.5	10
13	copper	mg/kg	0.0394	2	50
14	mercury	mg/kg	<0.0001	0.01	0.2
15	molybdenum	mg/kg	<0.03	0.5	10
16	nickel	mg/kg	0.0168	0.4	10
17	lead	mg/kg	0.0037	0.5	10
18	antimony	mg/kg	<0.01	0.06	0.7
19	selenium	mg/kg	<0.01	0.1	0.5
20	zinc	mg/kg	0.0439	4	50
21	chloride	mg/kg	<20	800	15,000
22	fluoride	mg/kg	<5	10	150
23	sulphate	mg/kg	<20	1,000	20,000
24	phenol index	mg/kg	<0.16	1	-
25	DOC (dissolved organic carbon)	mg/kg	60.2	500	800
26	TDS (total dissolved solids)	mg/kg	161	4,000	60,000

Key

User supplied data

Appendix A: Classifier defined and non EU CLP determinands

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

confirm TPH has NOT arisen from diesel or petrol

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

barium sulphide (EC Number: 244-214-4, CAS Number: 21109-95-5)

EU CLP index number: 016-002-00-X
Description/Comments:
Additional Hazard Statement(s): EUH031 >= 0.8 %
Reason for additional Hazards Statement(s):
14 Dec 2015 - EUH031 >= 0.8 % hazard statement sourced from: WM3, Table C12.2

lead compounds with the exception of those specified elsewhere in this Annex (worst case)

EU CLP index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following CLP protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

- **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

EU CLP index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

- **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

EU CLP index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

- **coronene** (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.
Data source: http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en
Data source date: 16 Jun 2014
Hazard Statements: STOT SE 2; H371

- **pH** (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case scenario.

arsenic {arsenic pentoxide}

Arsenic pentoxide used as most hazardous species.

barium {barium sulphide}

Chromium VI at limits of detection. Barium sulphide used as the next most hazardous species. No chromate present.

cadmium {cadmium sulfate}

Cadmium sulphate used as the most hazardous species.

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Chromium VI at limits of detection. Lead compounds used as the next most hazardous species. No chromate present.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel sulfate}

Chromium VI at limits of detection. Nickel sulphate used as the next most hazardous species. No chromate present.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil.

zinc {zinc sulphate}

Chromium VI at limits of detection. Zinc sulphate used as the next most hazardous species. No chromate present.

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments.

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1.NI - Jan 2021
HazWasteOnline Classification Engine Version: 2023.186.5664.10433 (05 Jul 2023)
HazWasteOnline Database: 2023.186.5664.10433 (05 Jul 2023)

This classification utilises the following guidance and legislation:
WM3 v1.1.NI - Waste Classification - 1st Edition v1.1.NI - Jan 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
17th ATP - Regulation (EU) 2021/849 of 11 March 2021
18th ATP - Regulation (EU) 2022/692 of 16 February 2022

Appendix 12
Survey Data

DRAFT

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
Cable Percussive Boreholes					
BH01	697791.863	715192.801	209.87	297862.507	215162.296
BH02	697916.155	715147.268	206.01	297986.827	215116.754
BH03	697821.428	715370.555	214.45	297892.078	215340.089
BH04	697608.376	715294.786	213.79	297678.980	215264.302
BH05	697783.106	715470.469	213.88	297853.747	215440.024
RC01	697888.861	715265.487	209.79	297959.526	215234.998
RC02	697715.870	715257.813	212.03	297786.497	215227.322
RC03	697695.673	715388.955	215.38	297766.295	215358.492
Trial Pits					
TP001	697736.892	715227.107	210.73	297807.524	215196.609
TP002	697721.740	715215.036	210.25	297792.369	215184.535
TP003	697717.119	715231.241	211.11	297787.747	215200.744
TP004	697741.076	715254.326	211.66	297811.709	215223.834
TP005	697735.015	715248.513	211.57	297805.647	215218.020
TP006	697700.688	715228.277	211.26	297771.312	215197.779
TP007	697711.770	715247.481	211.71	297782.397	215216.987
TP008	697679.119	715211.080	211.02	297749.739	215180.578
TP009	697707.654	715195.623	209.38	297778.280	215165.118
TP010	697699.412	715213.945	210.51	297770.036	215183.444
TP011	697762.703	715258.948	211.12	297833.341	215228.457
TP012	697742.848	715186.724	209.31	297813.482	215156.217
TP013	697759.387	715203.484	209.94	297830.024	215172.981
TP014	697717.902	715187.136	209.28	297788.530	215156.629
TP016	697751.514	715167.435	209.06	297822.150	215136.924
TP017	697778.884	715241.353	210.35	297849.525	215210.858
TP018	697758.820	715239.002	210.99	297829.457	215208.507
TP019	697775.495	715220.333	210.43	297846.136	215189.834
TP020	697739.741	715206.832	209.82	297810.374	215176.330
TP021	697758.494	715225.711	210.60	297829.131	215195.213
TP022	697672.316	715230.455	211.83	297742.934	215199.957
TP023	697636.003	715235.987	211.94	297706.613	215205.490
TP024	697784.060	715326.868	213.13	297854.702	215296.392
TP025	697649.832	715257.677	212.85	297720.445	215227.185
TP026	697657.228	715225.084	211.77	297727.843	215194.585
TP027	697649.724	715237.756	212.08	297720.337	215207.260
TP028	697786.191	715308.371	211.96	297856.833	215277.891
TP029	697804.394	715328.120	213.14	297875.040	215297.644
TP030	697767.781	715290.683	211.52	297838.419	215260.199
TP031	697766.991	715311.189	212.42	297837.629	215280.710
TP032	697750.595	715299.084	212.41	297821.230	215268.602
TP033	697671.044	715256.632	212.81	297741.662	215226.140
TP034	697726.389	715285.350	212.73	297797.019	215254.865

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
TP035	697708.565	715282.040	212.84	297779.191	215251.554
TP036	697726.655	715263.956	212.12	297797.285	215233.466
TP037	697691.164	715250.439	212.22	297761.786	215219.946
TP038	697708.990	715267.681	212.38	297779.616	215237.192
TP039	697683.705	715292.386	213.56	297754.325	215261.902
TP040	697668.107	715277.269	213.38	297738.724	215246.782
TP041	697688.281	715274.670	212.97	297758.902	215244.182
TP042	697710.758	715301.440	213.07	297781.384	215270.958
TP043	697691.308	715299.303	213.67	297761.930	215268.821
TP044	697772.142	715202.020	210.02	297842.782	215171.517
TP045	697884.752	715272.933	209.97	297955.416	215242.446
TP046	697845.096	715288.455	211.07	297915.751	215257.971
TP047	697878.504	715242.737	208.88	297949.167	215212.243
TP048	697902.486	715255.117	209.56	297973.154	215224.626
TP049	697865.695	715218.680	208.94	297936.355	215188.181
TP050	697859.040	715247.534	209.02	297929.699	215217.041
TP051	697819.753	715262.805	210.23	297890.403	215232.315
TP052	697865.323	715292.511	210.81	297935.983	215262.028
TP053	697880.518	715253.554	208.97	297951.181	215223.063
TP054	697863.806	715270.216	209.15	297934.465	215239.728
TP055	697881.892	715160.437	206.61	297952.556	215129.925
TP056	698019.763	715224.250	208.86	298090.457	215193.753
TP057	697991.780	715253.458	210.18	298062.467	215222.967
TP058	697991.764	715224.914	208.76	298062.451	215194.417
TP060	697849.739	715308.117	212.22	297920.395	215277.637
TP061	697896.858	715156.559	206.66	297967.525	215126.047
TP062	697877.278	715137.170	205.88	297947.941	215106.653
TP063	697927.076	715166.430	207.50	297997.750	215135.920
TP064	697950.745	715151.250	206.07	298021.424	215120.737
TP065	697909.595	715138.419	205.66	297980.265	215107.903
TP066	697855.167	715227.904	209.06	297925.825	215197.407
TP067	697785.369	715206.436	210.23	297856.012	215175.934
TP068	697849.226	715195.729	208.87	297919.883	215165.225
TP069	697802.012	715223.585	210.21	297872.658	215193.087
TP070	697803.821	715198.626	209.96	297874.468	215168.122
TP071	697817.345	715244.482	209.86	297887.995	215213.988
TP072	697827.734	715199.793	209.84	297898.386	215169.290
TP074	697842.578	715215.461	209.13	297913.233	215184.961
TP077	697823.552	715214.735	209.82	297894.203	215184.235
TP078	697842.708	715315.970	212.52	297913.363	215285.492
TP079	697825.115	715296.953	211.67	297895.766	215266.471
TP080	697823.899	715282.472	210.98	297894.550	215251.987
TP081	697837.874	715244.467	209.78	297908.528	215213.973

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
TP082	697839.807	715266.609	210.16	297910.461	215236.120
TP085	697803.273	715299.920	211.33	297873.919	215269.438
TP086	697806.688	715278.865	210.33	297877.335	215248.379
TP087	697822.509	715320.026	212.50	297893.159	215289.549
TP088	697707.237	715392.418	215.42	297777.862	215361.956
TP089	697695.008	715372.436	214.96	297765.630	215341.969
TP090	697724.843	715409.866	215.17	297795.471	215379.408
TP091	697740.451	715457.470	215.33	297811.082	215427.022
TP092	697741.663	715426.203	215.24	297812.295	215395.748
TP093	697686.750	715396.219	215.89	297757.370	215365.758
TP094	697668.511	715379.470	215.28	297739.127	215349.005
TP095	697704.259	715413.595	215.95	297774.883	215383.137
TP096	697672.866	715358.991	215.12	297743.483	215328.521
TP097	697721.184	715430.677	216.99	297791.811	215400.223
TP098	697756.318	715453.786	213.46	297826.953	215423.338
TP099	697763.972	715424.677	213.53	297834.609	215394.222
TP100	697806.056	715487.637	210.61	297876.701	215457.196
TP101	697784.292	715427.496	213.59	297854.933	215397.042
TP102	697801.882	715409.999	214.71	297872.527	215379.541
TP103	697781.512	715407.094	214.34	297852.153	215376.636
TP104	697773.081	715455.511	213.46	297843.719	215425.063
TP105	697753.000	715432.941	213.87	297823.634	215402.488
TP106	697768.624	715472.425	214.88	297839.261	215441.981
TP107	697788.692	715469.989	214.11	297859.334	215439.544
TP108	697785.998	715490.665	212.85	297856.639	215460.225
TP109	697689.956	715322.391	214.34	297760.577	215291.914
TP110	697634.355	715266.595	213.15	297704.965	215236.105
TP111	697630.389	715285.659	213.65	297700.998	215255.173
TP112	697617.468	715246.015	211.88	297688.074	215215.521
TP113	697608.879	715330.591	214.53	297679.483	215300.115
TP114	697597.115	715258.332	212.75	297667.717	215227.840
TP115	697597.568	715305.513	214.00	297668.169	215275.031
TP116	697580.626	715286.710	213.54	297651.224	215256.224
TP117	697603.860	715284.025	213.62	297674.463	215253.539
TP118	697614.431	715263.964	212.75	297685.036	215233.473
TP119	697619.433	715301.224	213.93	297690.039	215270.742
TP120	697633.513	715354.376	215.05	297704.122	215323.905
TP121	697651.191	715307.844	213.62	297721.804	215277.363
TP122	697630.313	715333.735	214.43	297700.921	215303.260
TP123	697668.865	715325.129	213.82	297739.482	215294.652
TP124	697672.339	715304.535	214.03	297742.957	215274.054
TP125	697654.725	715286.841	213.75	297725.339	215256.356
TP126	697650.221	715337.791	214.69	297720.834	215307.317

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
TP127	697625.751	715313.652	213.88	297696.359	215283.172
TP128	697645.563	715317.426	215.44	297716.175	215286.947
TP129	697654.402	715358.976	215.05	297725.015	215328.506
TP130	697670.388	715342.154	214.83	297741.005	215311.681
TP131	697799.874	715388.516	214.90	297870.519	215358.054
TP132	697914.957	715313.901	210.04	297985.627	215283.423
TP133	697899.720	715330.023	211.29	297970.387	215299.548
TP134	697897.802	715315.801	211.81	297968.468	215285.323
TP135	697904.518	715288.365	210.88	297975.186	215257.881
TP136	697882.048	715299.389	211.53	297952.711	215268.908
TP137	697863.765	715332.874	213.02	297934.424	215302.400
TP138	697867.135	715313.763	212.33	297937.795	215283.285
TP139	697884.080	715329.143	212.52	297954.743	215298.668
TP140	697900.176	715352.548	210.28	297970.843	215322.078
TP141	697879.269	715348.030	212.75	297949.931	215317.559
TP142	697722.636	715326.931	212.28	297793.264	215296.455
TP143	697787.176	715356.709	214.27	297857.818	215326.240
TP144	697770.174	715340.016	213.89	297840.813	215309.543
TP145	697792.742	715349.480	214.03	297863.385	215319.009
TP146	697810.406	715332.572	213.17	297881.053	215302.097
TP147	697814.206	715351.798	213.75	297884.854	215321.328
TP148	697766.768	715361.029	214.51	297837.406	215330.560
TP149	697748.607	715343.203	214.04	297819.241	215312.730
TP150	697785.604	715380.490	214.73	297856.246	215350.026
TP151	697760.402	715323.129	213.22	297831.039	215292.652
TP152	697730.498	715306.175	213.02	297801.128	215275.694
TP153	697900.035	715390.732	210.67	297970.701	215360.271
TP154	697825.351	715433.098	215.20	297896.001	215402.645
TP155	697829.011	715454.319	214.12	297899.662	215423.871
TP156	697847.649	715436.155	214.62	297918.304	215405.703
TP157	697835.067	715401.339	215.42	297905.719	215370.880
TP158	697817.774	715385.417	214.92	297888.423	215354.954
TP159	697797.258	715431.864	214.13	297867.902	215401.411
TP160	697823.301	715410.899	215.31	297893.951	215380.442
TP161	697795.517	715452.164	214.18	297866.160	215421.715
TP162	697807.543	715468.892	213.80	297878.189	215438.447
TP163	697807.180	715450.354	214.58	297877.826	215419.905
TP164	697856.914	715416.722	215.07	297927.571	215386.266
TP165	697877.092	715391.357	213.50	297947.753	215360.896
TP166	697860.077	715374.347	214.26	297930.735	215343.882
TP167	697844.151	715335.130	213.00	297914.806	215304.656
TP168	697880.251	715370.533	212.74	297950.913	215340.067
TP169	697863.112	715353.313	213.52	297933.771	215322.843

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
TP170	697838.436	715382.662	214.75	297909.089	215352.199
TP171	697821.637	715366.112	214.29	297892.287	215335.645
TP172	697857.707	715398.422	214.96	297928.364	215367.962
TP173	697843.451	715356.679	213.81	297914.105	215326.210
TP174	697875.007	715416.128	213.49	297945.668	215385.672
Dynamic Probes					
DP001	697872.728	715374.737	213.57	297943.389	215344.272
DP002	697868.918	715371.255	213.78	297939.578	215340.789
DP003	697880.436	715382.904	212.99	297951.098	215352.441
DP004	697876.531	715378.946	213.34	297947.192	215348.482
DP005	697855.366	715357.810	213.85	297926.023	215327.341
DP006	697851.154	715353.777	213.67	297921.810	215323.307
DP007	697863.125	715365.320	213.81	297933.784	215334.853
DP008	697859.203	715361.375	213.85	297929.861	215330.907
DP009	697885.470	715389.070	212.49	297956.133	215358.608
DP010	697848.346	715402.662	215.37	297919.001	215372.203
DP011	697853.868	715408.623	215.23	297924.524	215378.165
DP012	697839.907	715395.049	215.26	297910.560	215364.588
DP013	697843.907	715398.975	215.36	297914.561	215368.515
DP014	697867.681	715421.333	214.05	297938.340	215390.878
DP015	697889.644	715393.472	212.09	297960.308	215363.011
DP016	697857.529	715412.072	215.13	297928.186	215381.615
DP017	697863.790	715417.765	214.55	297934.448	215387.309
DP018	697845.419	715348.157	213.49	297916.074	215317.686
DP019	697900.271	715339.282	210.70	297970.938	215308.809
DP020	697896.968	715343.330	210.99	297967.634	215312.858
DP021	697907.933	715318.578	210.84	297978.602	215288.101
DP022	697907.851	715328.807	210.38	297978.520	215298.332
DP023	697819.824	715275.209	210.60	297890.474	215244.722
DP024	697823.488	715271.276	210.53	297894.139	215240.788
DP025	697890.904	715348.910	211.54	297961.569	215318.439
DP026	697887.323	715352.928	211.88	297957.987	215322.458
DP027	697900.385	715307.532	211.57	297971.052	215277.053
DP028	697868.018	715324.722	212.71	297938.678	215294.246
DP029	697871.723	715328.865	212.82	297942.384	215298.390
DP030	697842.040	715344.093	213.26	297912.694	215313.621
DP031	697863.810	715320.379	212.59	297934.469	215289.902
DP032	697892.982	715299.846	211.59	297963.648	215269.365
DP033	697896.980	715303.513	211.63	297967.646	215273.033
DP034	697875.639	715332.335	212.86	297946.301	215301.861
DP035	697889.059	715295.880	211.43	297959.724	215265.398
DP036	697820.027	715418.962	215.26	297890.676	215388.506
DP038	697802.652	715398.064	214.99	297873.297	215367.604

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
DP039	697815.544	715413.912	215.12	297886.192	215383.455
DP040	697833.566	715436.926	215.17	297904.218	215406.474
DP041	697829.090	715443.348	214.97	297899.741	215412.898
DP042	697796.005	715442.304	215.10	297866.649	215411.853
DP043	697838.496	715432.096	215.26	297909.149	215401.643
DP044	697799.026	715401.525	214.90	297869.670	215371.065
DP045	697757.450	715441.585	213.57	297828.085	215411.134
DP046	697776.027	715424.834	213.50	297846.666	215394.379
DP047	697747.495	715450.859	214.37	297818.128	215420.410
DP048	697753.677	715445.159	213.60	297824.311	215414.709
DP049	697789.869	715411.374	214.42	297860.511	215380.917
DP050	697793.516	715407.475	214.67	297864.159	215377.017
DP051	697781.783	715418.701	213.84	297852.424	215388.245
DP052	697785.797	715414.891	214.12	297856.439	215384.434
DP053	697824.765	715446.748	214.90	297895.415	215416.298
DP054	697797.267	715491.181	211.45	297867.910	215460.741
DP055	697818.761	715374.004	214.56	297889.410	215343.539
DP056	697789.711	715483.490	213.42	297860.353	215453.048
DP057	697793.360	715486.515	212.73	297864.003	215456.074
DP058	697830.518	715385.118	214.91	297901.169	215354.655
DP059	697836.016	715391.079	215.16	297906.669	215360.617
DP060	697823.237	715377.666	214.68	297893.887	215347.201
DP061	697826.936	715381.861	214.92	297897.587	215351.397
DP062	697785.435	715479.158	213.87	297856.076	215448.715
DP063	697810.789	715459.631	214.40	297881.436	215429.184
DP064	697807.082	715463.192	214.31	297877.728	215432.746
DP065	697820.923	715450.651	214.75	297891.572	215420.202
DP066	697816.949	715454.816	214.58	297887.597	215424.368
DP067	697775.866	715469.308	213.58	297846.505	215438.863
DP068	697779.938	715473.402	213.80	297850.578	215442.958
DP069	697768.212	715461.763	213.40	297838.849	215431.316
DP070	697772.021	715465.439	213.46	297842.659	215434.993
DP073	697840.136	715199.858	209.23	297910.791	215169.355
DP074	697845.579	715205.066	208.95	297916.235	215174.564
DP079	697836.070	715195.103	209.51	297906.724	215164.599
DP088	697874.968	715148.318	206.36	297945.631	215117.804
DP089	698004.847	715228.428	209.15	298075.537	215197.932
DP090	698000.382	715232.524	209.35	298071.071	215202.029
DP091	698013.913	715219.636	208.70	298084.605	215189.138
DP092	698009.114	715224.187	208.95	298079.805	215193.690
DP093	697849.702	715209.439	208.87	297920.359	215178.938
DP095	697996.041	715236.979	209.58	298066.729	215206.485
DP096	697991.869	715241.168	209.74	298062.556	215210.675

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
DP097	697941.767	715158.925	206.19	298012.444	215128.413
DP098	697894.008	715146.493	205.87	297964.675	215115.978
DP099	697912.236	715150.131	206.03	297982.907	215119.617
DP100	697881.561	715148.207	206.04	297952.225	215117.693
DP101	697887.588	715147.583	205.57	297958.253	215117.069
DP102	697930.116	715155.045	206.04	298000.791	215124.533
DP103	697936.104	715156.958	206.06	298006.780	215126.446
DP104	697918.699	715151.130	205.99	297989.371	215120.617
DP105	697924.375	715152.907	206.22	297995.048	215122.394
DP106	697857.342	715289.887	210.75	297928.000	215259.403
DP107	697862.950	715284.326	210.16	297933.609	215253.841
DP108	697849.614	715297.599	211.66	297920.270	215267.117
DP109	697853.898	715293.490	211.18	297924.555	215263.007
DP110	697877.080	715270.615	209.58	297947.742	215240.127
DP111	697881.148	715266.462	209.51	297951.811	215235.974
DP112	697867.333	715280.404	209.88	297937.993	215249.918
DP113	697872.837	715274.680	209.65	297943.498	215244.193
DP114	697846.231	715301.151	211.91	297916.886	215270.670
DP115	697837.302	715257.922	210.05	297907.956	215227.431
DP116	697841.329	715254.062	209.83	297911.984	215223.571
DP117	697827.624	715267.455	210.49	297898.276	215236.966
DP118	697831.466	715263.974	210.37	297902.118	215233.485
DP119	697855.119	715240.545	209.18	297925.777	215210.051
DP120	697858.427	715236.955	209.07	297929.085	215206.460
DP121	697846.487	715248.482	209.57	297917.143	215217.989
DP122	697850.776	715244.716	209.36	297921.433	215214.223
DP123	697884.433	715263.212	209.42	297955.097	215232.723
DP124	697790.423	715199.358	210.07	297861.067	215168.854
DP125	697793.975	715202.946	210.12	297864.620	215172.443
DP127	697786.461	715194.861	209.92	297857.104	215164.356
DP128	697807.454	715216.305	210.16	297878.102	215185.805
DP130	697797.955	715206.522	210.08	297868.601	215176.020
DP131	697803.701	715212.754	210.14	297874.348	215182.253
DP133	697887.033	715244.107	209.01	297957.698	215213.614
DP134	697894.153	715251.363	209.28	297964.819	215220.871
DP135	697870.074	715227.115	208.96	297940.735	215196.618
DP136	697877.551	715234.493	208.90	297948.214	215203.998
DP141	697770.747	715353.943	214.38	297841.386	215323.473
DP142	697774.729	715357.642	214.41	297845.369	215327.173
DP143	697761.282	715343.984	214.02	297831.919	215313.512
DP144	697766.919	715349.974	214.30	297837.557	215319.503
DP145	697788.554	715371.625	214.55	297859.196	215341.159
DP146	697801.511	715352.478	214.03	297872.156	215322.008

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
DP147	697778.875	715361.799	214.49	297849.515	215331.331
DP148	697784.480	715367.888	214.49	297855.122	215337.421
DP149	697756.587	715341.034	213.97	297827.223	215310.561
DP150	697756.982	715289.108	211.74	297827.618	215258.624
DP151	697730.599	715313.020	212.98	297801.229	215282.541
DP152	697795.800	715327.663	213.18	297866.444	215297.187
DP153	697760.592	715292.853	211.80	297831.229	215262.370
DP154	697743.345	715326.219	213.78	297813.978	215295.743
DP155	697747.329	715330.154	213.74	297817.963	215299.679
DP156	697734.513	715316.999	213.14	297805.144	215286.521
DP157	697739.109	715322.308	213.53	297809.741	215291.831
DP158	697805.525	715348.513	213.82	297876.171	215318.042
DP159	697701.755	715299.955	213.32	297772.379	215269.473
DP160	697708.440	715293.288	213.05	297779.066	215262.804
DP161	697835.497	715320.023	212.55	297906.150	215289.546
DP162	697698.642	715303.741	213.54	297769.265	215273.260
DP163	697720.786	715281.733	212.78	297791.414	215251.247
DP164	697727.176	715275.221	212.50	297797.806	215244.734
DP165	697712.353	715289.386	212.93	297782.979	215258.902
DP166	697716.358	715285.407	212.83	297786.985	215254.922
DP167	697831.575	715316.159	212.46	297902.227	215285.681
DP168	697802.933	715287.265	210.68	297873.579	215256.781
DP169	697806.677	715290.757	210.91	297877.324	215260.273
DP170	697811.296	715342.344	213.53	297881.944	215311.872
DP171	697815.303	715338.760	213.37	297885.951	215308.287
DP172	697822.355	715306.243	212.12	297893.005	215275.763
DP173	697826.280	715310.252	212.34	297896.931	215279.773
DP174	697812.514	715296.314	211.35	297883.162	215265.832
DP175	697816.443	715300.047	211.67	297887.092	215269.565
DP176	697633.210	715278.108	210.92	297703.819	215247.621
DP177	697650.870	715297.215	214.13	297721.483	215266.732
DP178	697625.416	715270.274	211.95	297696.024	215239.785
DP179	697629.310	715274.188	211.48	297699.919	215243.700
DP180	697662.963	715307.897	213.97	297733.579	215277.416
DP181	697668.856	715313.556	214.21	297739.473	215283.077
DP182	697655.177	715300.171	213.95	297725.791	215269.689
DP183	697658.899	715303.919	214.04	297729.514	215273.437
DP184	697621.349	715266.425	212.94	297691.956	215235.935
DP185	697599.115	715293.250	213.68	297669.717	215262.766
DP186	697603.290	715297.147	213.72	297673.893	215266.664
DP187	697589.741	715283.393	213.27	297660.341	215252.906
DP188	697593.271	715287.210	213.36	297663.872	215256.724
DP189	697604.713	715258.343	212.03	297675.316	215227.851

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
DP190	697613.162	715253.709	211.91	297683.767	215223.216
DP191	697607.015	715301.373	213.75	297677.619	215270.891
DP192	697610.755	715304.760	213.92	297681.359	215274.278
DP193	697671.746	715318.430	213.86	297742.363	215287.952
DP194	697769.644	715302.404	211.95	297840.283	215271.923
DP195	697774.142	715306.354	211.97	297844.782	215275.874
DP196	697688.434	715286.007	213.27	297759.055	215255.522
DP197	697765.715	715298.441	211.90	297836.353	215267.959
DP198	697787.754	715320.093	212.81	297858.397	215289.616
DP199	697791.706	715324.043	212.97	297862.349	215293.567
DP200	697777.957	715310.408	212.14	297848.598	215279.928
DP201	697784.039	715316.135	212.49	297854.681	215285.657
DP202	697684.246	715282.327	213.23	297754.866	215251.841
DP203	697659.486	715256.922	212.85	297730.101	215226.430
DP204	697663.266	715260.937	212.99	297733.882	215230.446
DP205	697676.741	715321.930	213.94	297747.360	215291.452
DP206	697680.329	715325.701	213.98	297750.948	215295.224
DP207	697676.721	715274.567	213.21	297747.340	215244.079
DP208	697680.379	715277.959	213.23	297750.999	215247.472
DP209	697666.975	715264.981	213.03	297737.592	215234.491
DP210	697670.813	715269.170	213.13	297741.431	215238.681
DP211	697645.305	715355.287	214.97	297715.916	215324.816
DP212	697650.556	715350.375	214.98	297721.169	215319.903
DP213	697638.258	715313.645	214.46	297708.868	215283.165
DP214	697641.361	715360.299	215.10	297711.972	215329.830
DP215	697662.741	715338.238	215.20	297733.356	215307.764
DP216	697751.560	715334.329	213.70	297822.195	215303.855
DP217	697655.489	715345.640	214.82	297726.103	215315.167
DP218	697658.684	715342.725	214.77	297729.298	215312.252
DP219	697633.915	715317.936	214.48	297704.524	215287.457
DP220	697733.680	715187.404	209.08	297804.312	215156.897
DP221	697730.495	715182.815	209.05	297801.126	215152.307
DP222	697743.158	715199.095	209.62	297813.792	215168.591
DP223	697739.571	715195.335	209.46	297810.204	215164.830
DP224	697626.004	715325.413	214.49	297696.612	215294.936
DP225	697630.386	715321.045	214.36	297700.994	215290.567
DP226	697616.432	715335.202	214.64	297687.037	215304.727
DP227	697620.935	715330.875	214.51	297691.541	215300.399
DP228	697771.832	715428.567	213.42	297842.470	215398.113
DP229	697715.698	715413.388	215.89	297786.324	215382.931
DP230	697721.527	715419.470	216.03	297792.155	215389.014
DP231	697707.731	715405.582	215.74	297778.356	215375.123
DP232	697712.141	715409.830	215.89	297782.767	215379.372

Survey Data

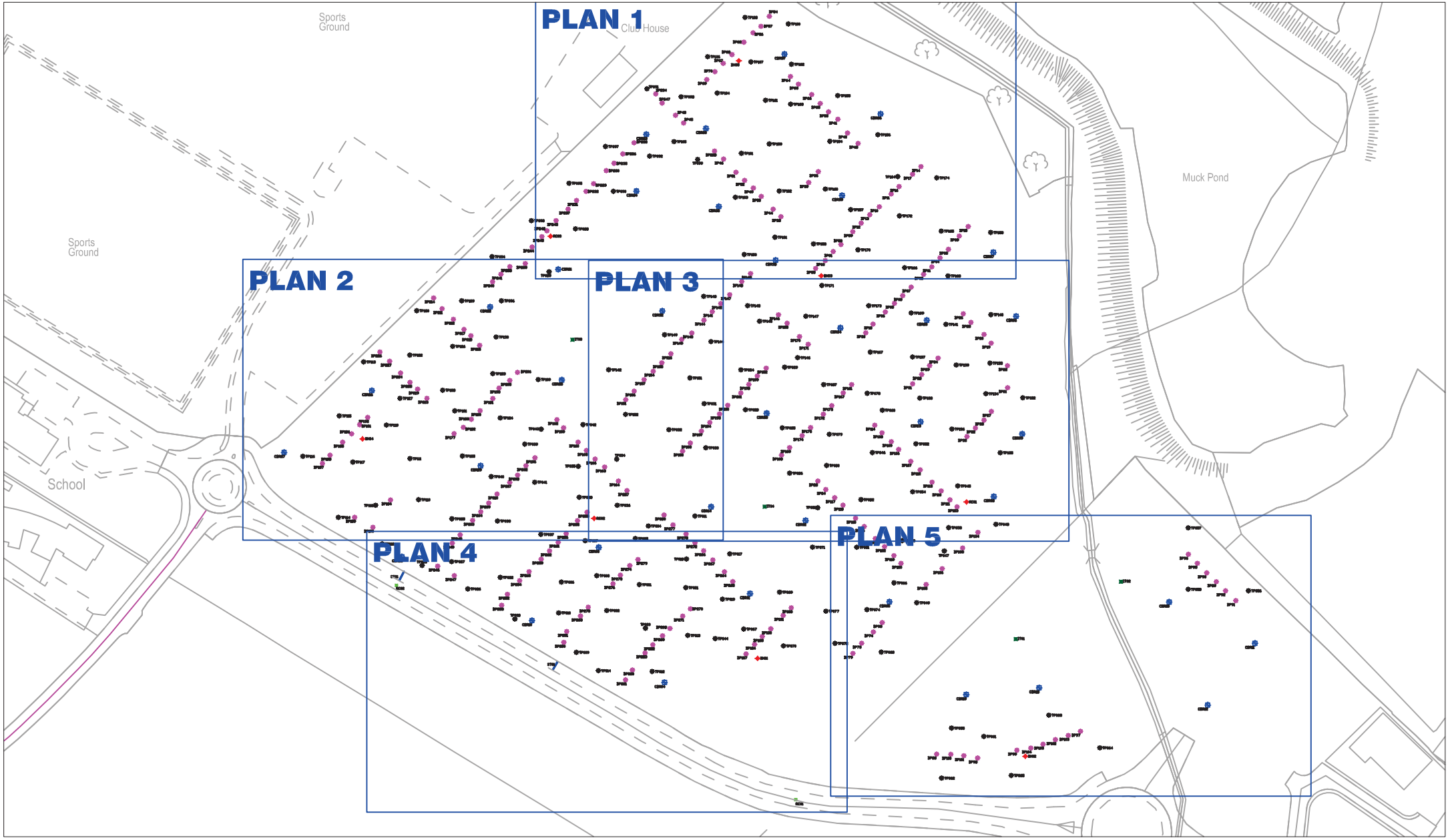
Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
DP233	697734.428	715432.397	215.06	297805.058	215401.944
DP234	697744.547	715455.141	214.67	297815.179	215424.693
DP235	697725.155	715422.883	215.84	297795.783	215392.428
DP236	697729.238	715427.231	215.38	297799.867	215396.777
DP237	697703.798	715401.573	215.76	297774.422	215371.113
DP238	697676.757	715374.830	215.19	297747.375	215344.364
DP239	697683.931	715376.287	215.23	297754.551	215345.821
DP240	697668.716	715367.769	215.07	297739.332	215337.301
DP241	697672.632	715371.318	215.09	297743.249	215340.851
DP242	697693.998	715391.500	215.50	297764.620	215361.038
DP243	697698.232	715396.232	215.54	297768.855	215365.771
DP244	697687.095	715383.961	215.55	297757.715	215353.497
DP245	697691.643	715388.791	215.43	297762.264	215358.328
DP246	697643.252	715235.656	211.93	297713.864	215205.159
DP247	697650.972	715231.239	211.80	297721.586	215200.742
DP248	697653.688	715250.186	212.62	297724.302	215219.693
DP249	697650.027	715246.300	212.38	297720.640	215215.806
DP250	697701.831	715200.259	209.09	297772.456	215169.755
DP251	697703.161	715205.312	209.90	297773.786	215174.809
DP252	697675.660	715222.594	211.55	297746.279	215192.095
DP253	697672.954	715217.492	211.46	297743.572	215186.992
DP254	697681.326	715228.932	211.73	297751.946	215198.434
DP255	697708.160	715256.779	212.19	297778.786	215226.287
DP256	697702.942	715250.815	212.01	297773.567	215220.322
DP257	697731.176	715270.750	212.29	297801.807	215240.262
DP258	697712.658	715260.717	212.17	297783.285	215230.226
DP259	697691.326	715238.913	211.93	297761.948	215208.417
DP260	697685.704	715233.109	211.82	297756.325	215202.612
DP261	697699.225	715246.754	211.98	297769.849	215216.260
DP262	697695.214	715242.750	211.98	297765.837	215212.255
DP263	697709.569	715212.479	210.27	297780.195	215181.978
DP264	697776.439	715233.047	210.44	297847.080	215202.551
DP265	697780.275	715228.482	210.43	297850.917	215197.985
DP266	697766.758	715242.819	210.80	297837.397	215212.325
DP267	697771.027	715238.524	210.58	297841.667	215208.029
DP268	697751.113	715206.708	209.94	297821.748	215176.206
DP269	697747.685	715203.330	209.81	297818.320	215172.827
DP270	697760.627	715215.834	210.34	297831.264	215185.334
DP271	697757.032	715212.427	210.22	297827.669	215181.926
DP272	697762.769	715246.536	211.02	297833.407	215216.042
DP273	697728.119	715231.496	211.02	297798.749	215200.999
DP274	697732.452	715235.926	210.98	297803.083	215205.430
DP275	697713.176	715216.624	210.74	297783.803	215186.124

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
DP276	697724.684	715227.495	210.82	297795.314	215196.997
DP277	697752.559	715254.794	211.48	297823.194	215224.302
DP278	697758.608	715250.571	211.24	297829.245	215220.078
DP279	697736.283	715238.753	211.29	297806.915	215208.258
DP280	697748.369	715259.425	211.67	297819.003	215228.934
Soakaway Tests					
IT01	697911.726	715201.780	209.84	297982.396	215171.278
IT02	697960.580	715228.433	205.50	298031.261	215197.937
IT03	697705.875	715340.884	214.36	297776.500	215310.411
IT04	697795.086	715263.275	209.88	297865.731	215232.785
Slit Trenches					
ST01 Start	697627.652	715233.219	211.73	297698.260	215202.722
ST01 End	697625.411	715228.972	211.58	297696.019	215198.474
ST02 Start	697698.922	715191.277	210.24	297769.546	215160.771
ST02 End	697696.815	715187.636	210.10	297767.439	215157.129
Insitu CBR Tests					
CBR01	697788.296	715222.861	210.37	297858.939	215192.362
CBR02	697814.109	715256.808	209.98	297884.758	215226.317
CBR03	697718.030	715244.345	211.56	297788.658	215213.851
CBR04	697748.577	715181.572	209.25	297819.212	215151.064
CBR05	697853.043	715219.017	208.97	297923.700	215188.518
CBR06	697911.874	715351.755	208.61	297982.543	215321.285
CBR07	697901.309	715381.415	210.31	297971.976	215350.952
CBR08	697901.510	715267.922	210.08	297972.178	215237.434
CBR09	697914.718	715297.048	210.05	297985.388	215266.566
CBR10	697687.025	715210.321	210.70	297757.647	215179.819
CBR11	698022.785	715199.770	208.32	298093.479	215169.268
CBR12	698000.855	715171.077	205.44	298071.545	215140.568
CBR13	697867.519	715302.660	211.70	297938.179	215272.179
CBR14	697770.249	715263.191	210.86	297840.888	215232.701
CBR15	697982.944	715218.950	207.39	298053.630	215188.452
CBR16	697922.579	715179.106	208.98	297993.252	215148.599
CBR17	697888.717	715175.920	208.47	297959.382	215145.412
CBR18	697870.401	715349.913	213.24	297941.061	215319.443
CBR19	697699.235	715373.545	214.95	297769.858	215343.079
CBR20	697667.605	715356.096	214.95	297738.221	215325.626
CBR21	697740.158	715436.261	214.48	297810.789	215405.809
CBR22	697735.555	715409.892	214.90	297806.186	215379.434
CBR23	697700.914	715322.125	214.04	297771.538	215291.648
CBR24	697612.703	715317.203	214.05	297683.308	215286.724
CBR25	697571.937	715288.456	213.42	297642.533	215257.970
CBR26	697626.627	715239.978	212.15	297697.235	215209.482
CBR27	697663.204	715282.247	213.55	297733.820	215251.761

Survey Data

Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
CBR28	697767.844	715438.980	213.25	297838.481	215408.528
CBR29	697747.564	715354.201	214.42	297818.198	215323.731
CBR30	697796.043	715306.636	211.80	297866.687	215276.156
CBR31	697830.255	715346.315	213.44	297900.907	215315.844
CBR32	697773.795	715402.723	214.29	297844.434	215372.264
CBR33	697848.948	715445.788	213.60	297919.603	215415.338
CBR34	697804.317	715473.540	213.50	297874.962	215443.096
CBR35	697800.167	715377.754	214.63	297870.812	215347.289
CBR36	697831.038	715407.844	215.46	297901.689	215377.386
Road Cores					
RC01	697809.537	715127.149	207.78	297880.186	215096.630
RC02	697624.095	715226.720	211.50	297694.703	215196.221



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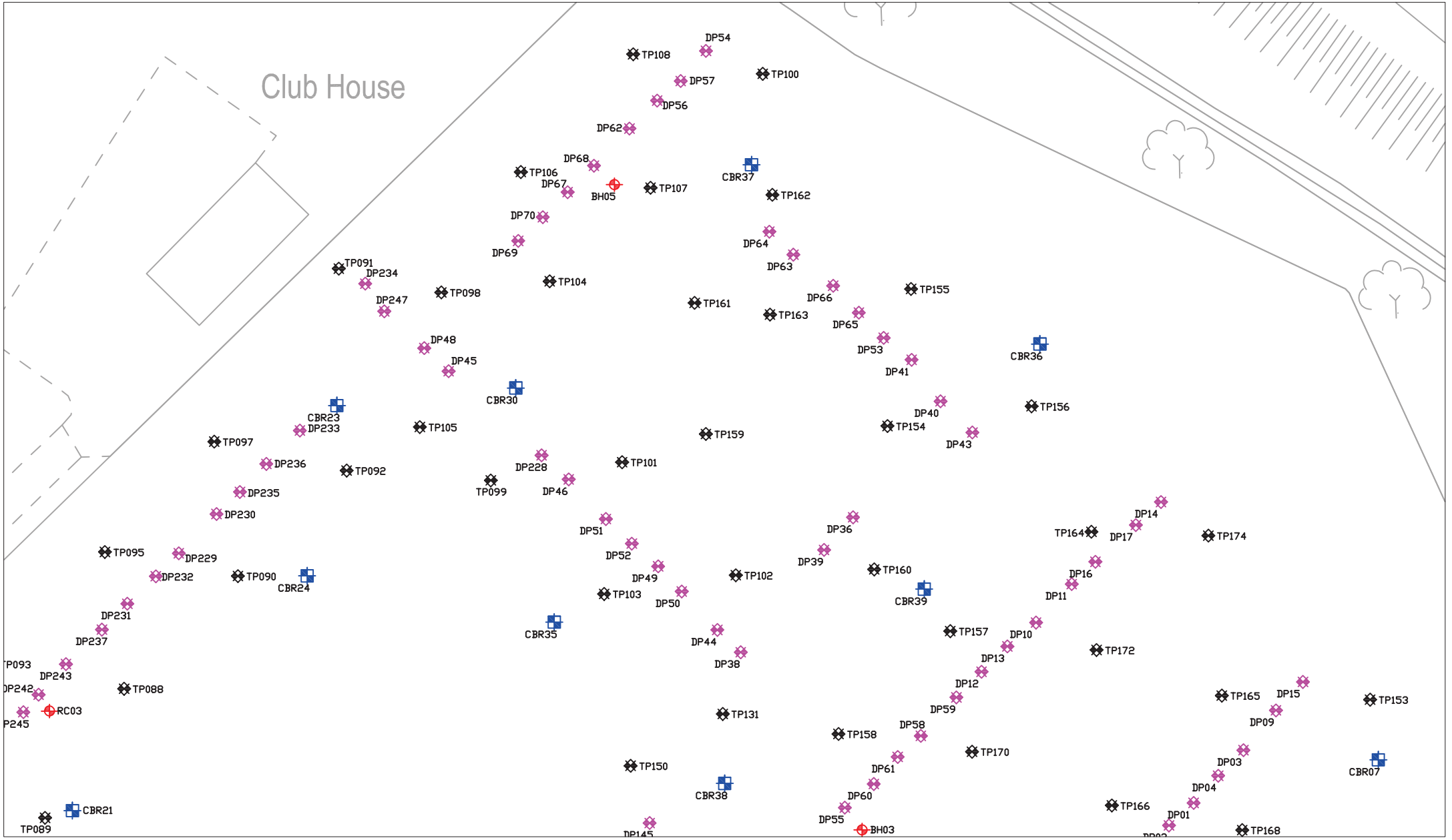
Client :	Cairn Homes Ltd		
Engineer :	DBFL		
Project :	Blessington - Phase 3		
Date :	14-06-2023	**Scale :**	Not to Scale
Description :	Site Investigation	**Rev :**	1
Drawing No. :	6100:Overall	**Drawn by :**	SL

Legend:

- Cable Percussion Borehole
- Road Core Drilling
- Trial Pit
- Dynamic Probe
- Soakaway Test
- Slit Trench

N



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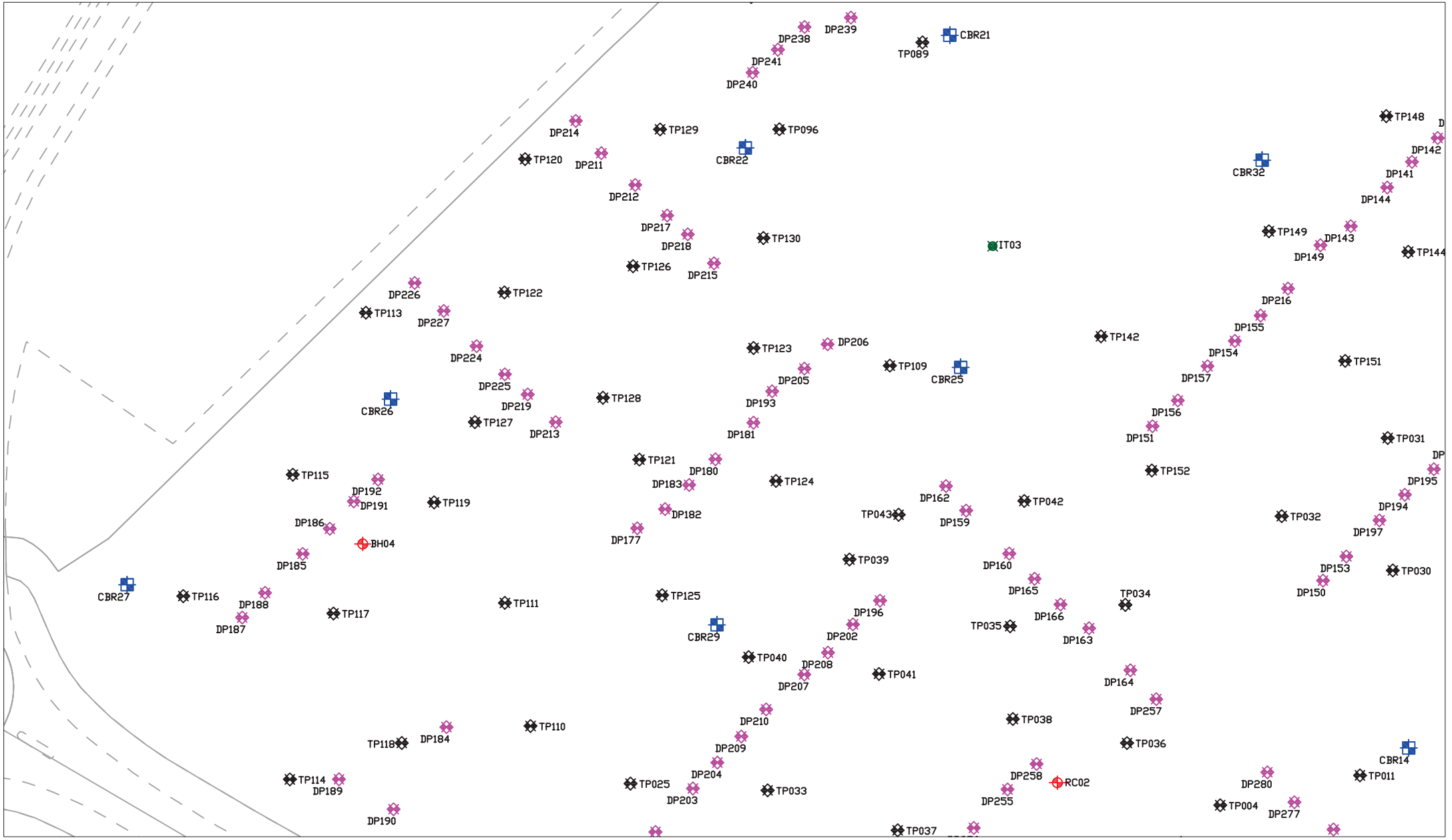
Client :	Cairn Homes Ltd		
Engineer :	DBFL		
Project :	Blessington - Phase 3		
Date :	14-06-2023	**Scale :**	Not to Scale
Description :	Site Investigation	**Rev :**	1
Drawing No. :	6100:01/05	**Drawn by :**	SL

Legend:

- Cable Percussion Borehole
- Road Core Drilling
- Trial Pit
- Dynamic Probe
- Soakaway Test
- Slit Trench

N



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Legend:

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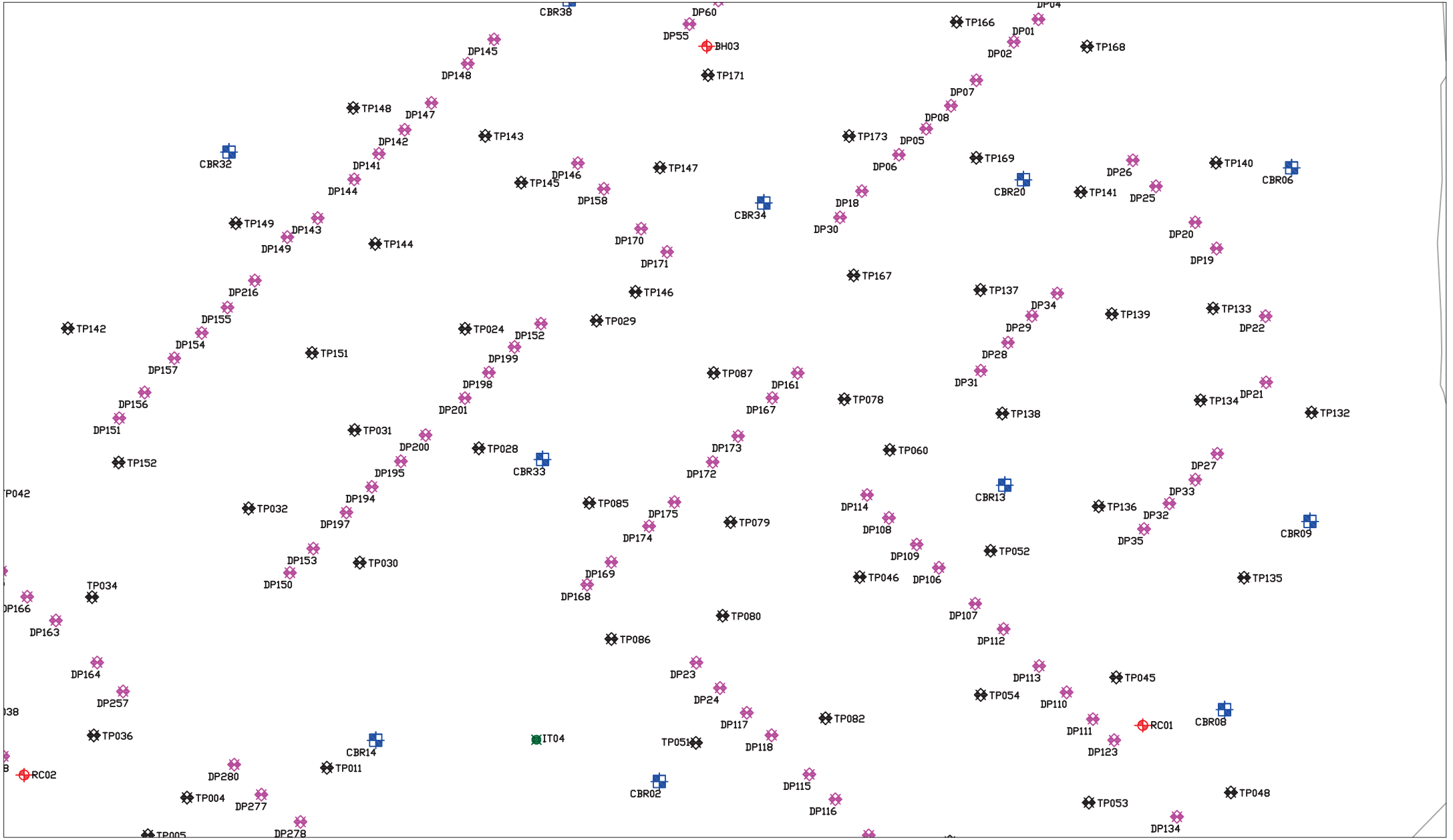

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Legend:

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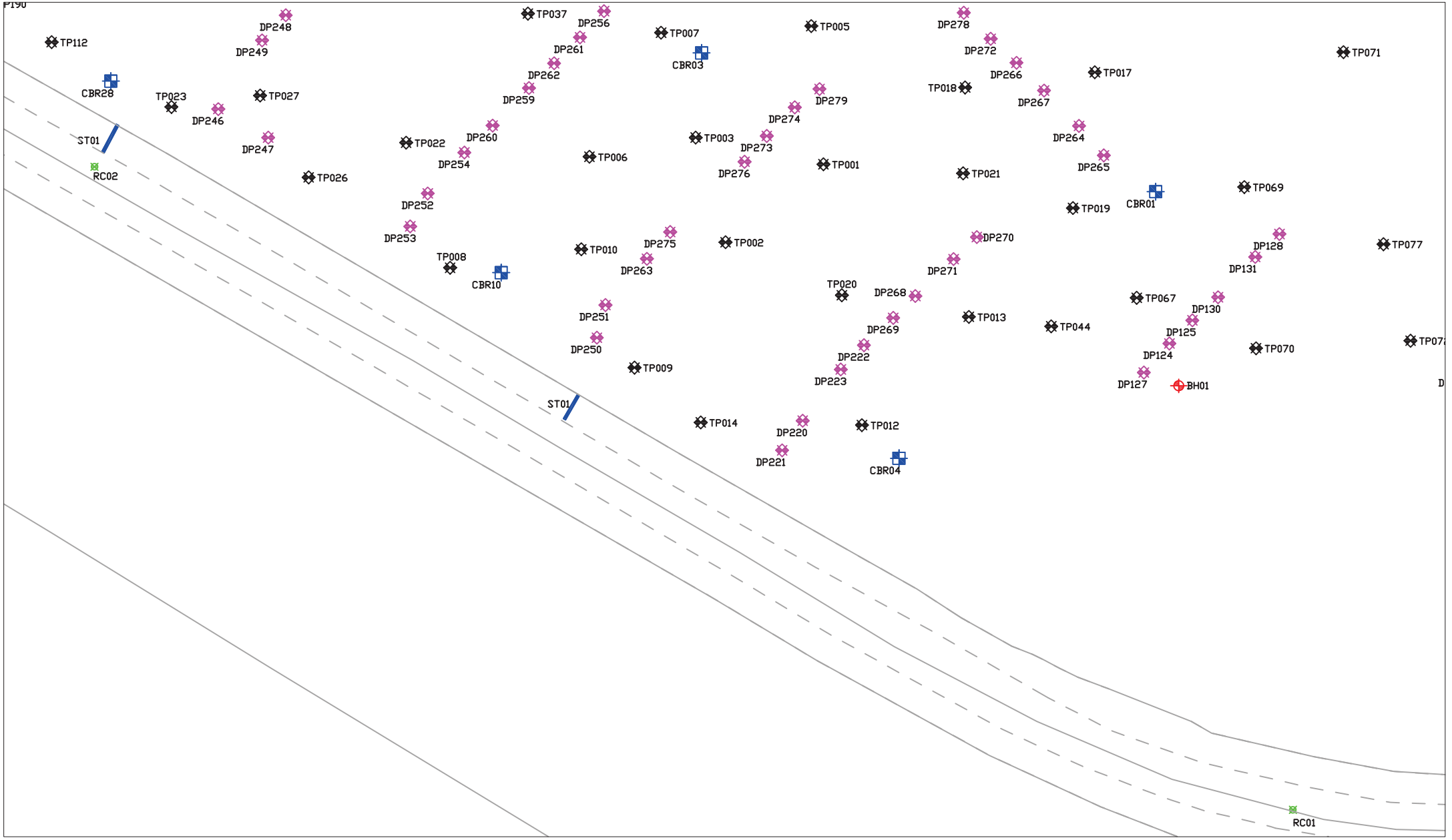

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Legend:

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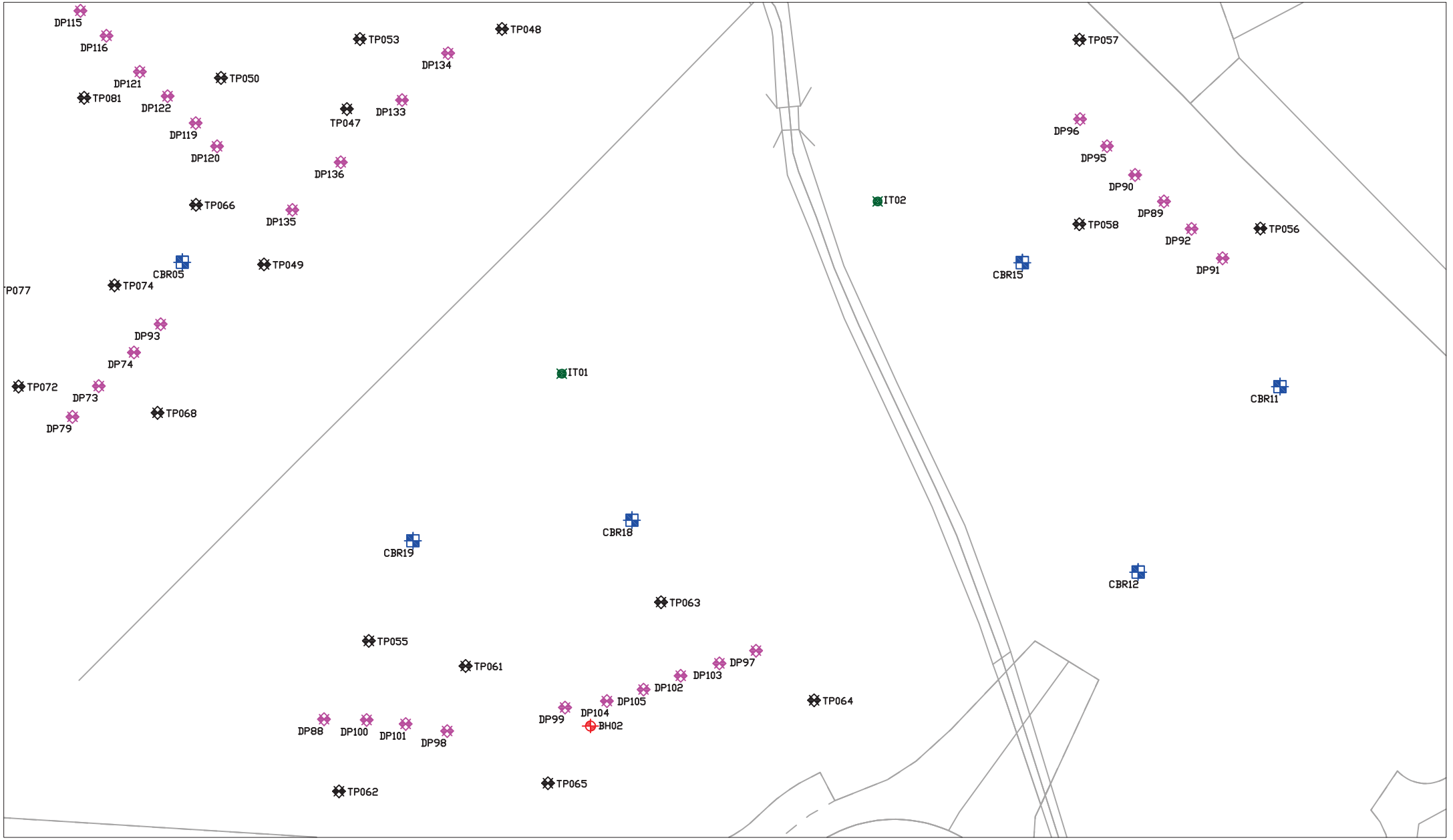

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Legend:

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- Trial Pit
- Dynamic Probe
- Soakaway Test
- Slit Trench
- Road Core Drilling

N