Dynamic Cone Penetrometer (DCP) test results and estimated CBR

Project Number	24-0211
Project Name	Kingston Lands
Site Location	Galway

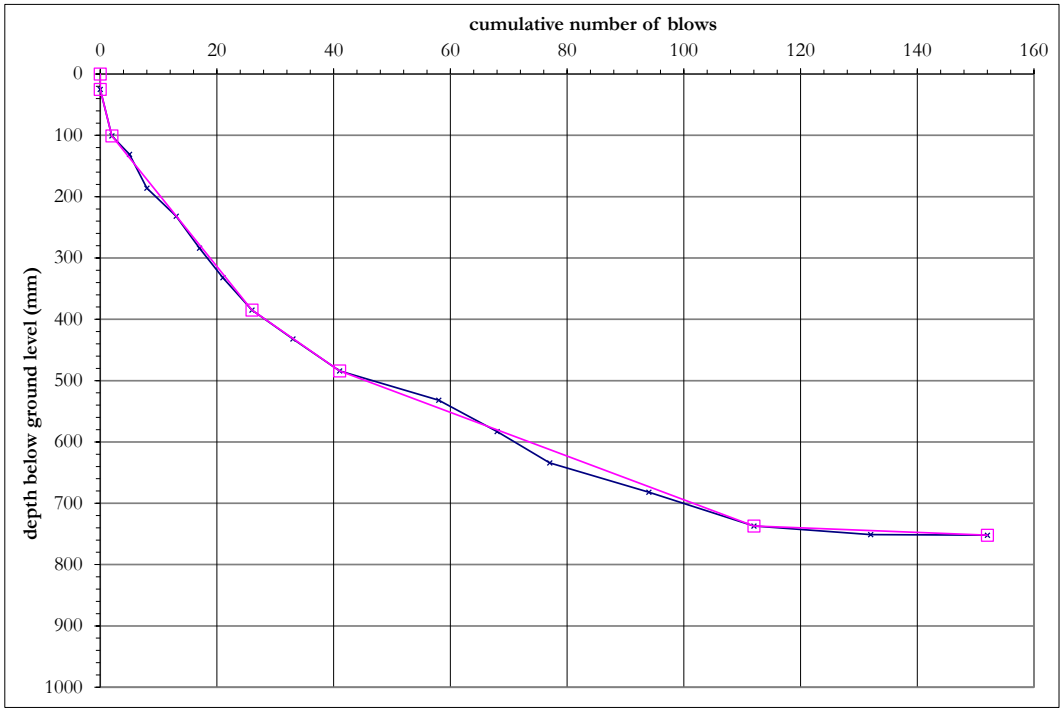
RECEIVED: 05/08/2026

Test Number	DCP36
Depth bgl (m)	0.00

Date Tested	31/05/2025
Weather	Wet

Test conducted in accordance with Documented In-House Technical Procedure IMS TP7-4 and DMRB CS 229 Rev 0
CBR calculated using the TRRL CBR DCP relationship: log10(CBR) = 2.48 - 1.057 x log10(mm/blow) in accordance with DMRB CS 229 Rev 0

Surface preparation	Description of surface material at test depth
None	GRAVEL



top / base of layer (mm)	mm/ blow	CBR (%)
0 25	N/A	N/A
25 101	38	6.5
101 385	12	22
385 484	6.6	41
484 737	3.6	79
737 752	0.4	>100

CBR Range	Min: 6.5 Max: >100	The self-weight penetration at the start of the test (shown above) has not been included in the minimum and maximum values shown to the left. The selection of layers is based on visual interpretation of the data. The insitu DCP reading (mm/blow) and CBR values are valid at the time of testing; variation in moisture content or other factors may affect the insitu value. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report should not be reproduced except in full without the written approval of the laboratory.

Deviation(s) from standard procedure	None
Observations and comments	

Approved Name and Appointment		
Matthew Gilbert Associate		June 2025

UKAS TESTING 10122

Dynamic Cone Penetrometer (DCP) test results and estimated CBR

Project Number	24-0211
Project Name	Kingston Lands
Site Location	Galway

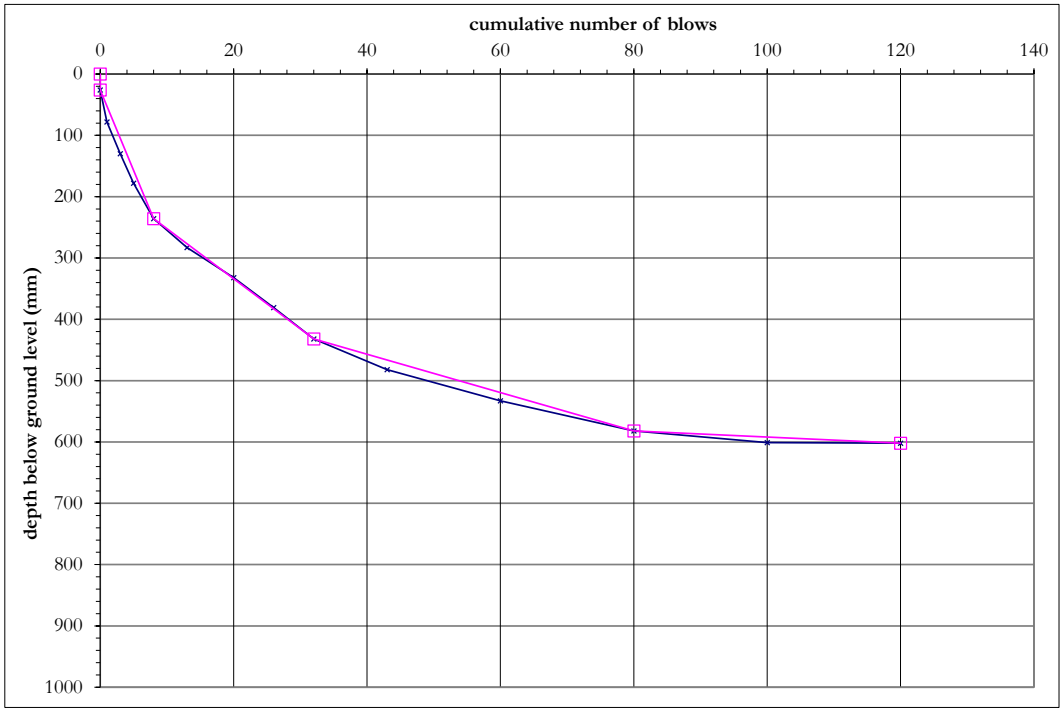
RECEIVED: 05/08/2026

Test Number	DCP37
Depth bgl (m)	0.00

Date Tested	31/05/2025
Weather	Wet

Test conducted in accordance with Documented In-House Technical Procedure IMS TP7-4 and DMRB CS 229 Rev 0
CBR calculated using the TRRL CBR DCP relationship: log10(CBR) = 2.48 - 1.057 x log10(mm/blow) in accordance with DMRB CS 229 Rev 0

Surface preparation	Description of surface material at test depth
None	TOPSOIL



top / base of layer (mm)	mm/ blow	CBR (%)
0	N/A	N/A
26		
26	26	9.5
236		
236	8.2	33
432		
432	3.1	91
582		
582	0.5	>100
602		

CBR Range	Min: 9.5 Max: >100	The self-weight penetration at the start of the test (shown above) has not been included in the minimum and maximum values shown to the left. The selection of layers is based on visual interpretation of the data. The insitu DCP reading (mm/blow) and CBR values are valid at the time of testing; variation in moisture content or other factors may affect the insitu value. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report should not be reproduced except in full without the written approval of the laboratory.

Deviation(s) from standard procedure	None

Observations and comments	

Approved Name and Appointment		
Matthew Gilbert Associate	M. Gilbert	June 2025

UKAS TESTING 10122

Dynamic Cone Penetrometer (DCP) test results and estimated CBR

Project Number	24-0211
Project Name	Kingston Lands
Site Location	Galway

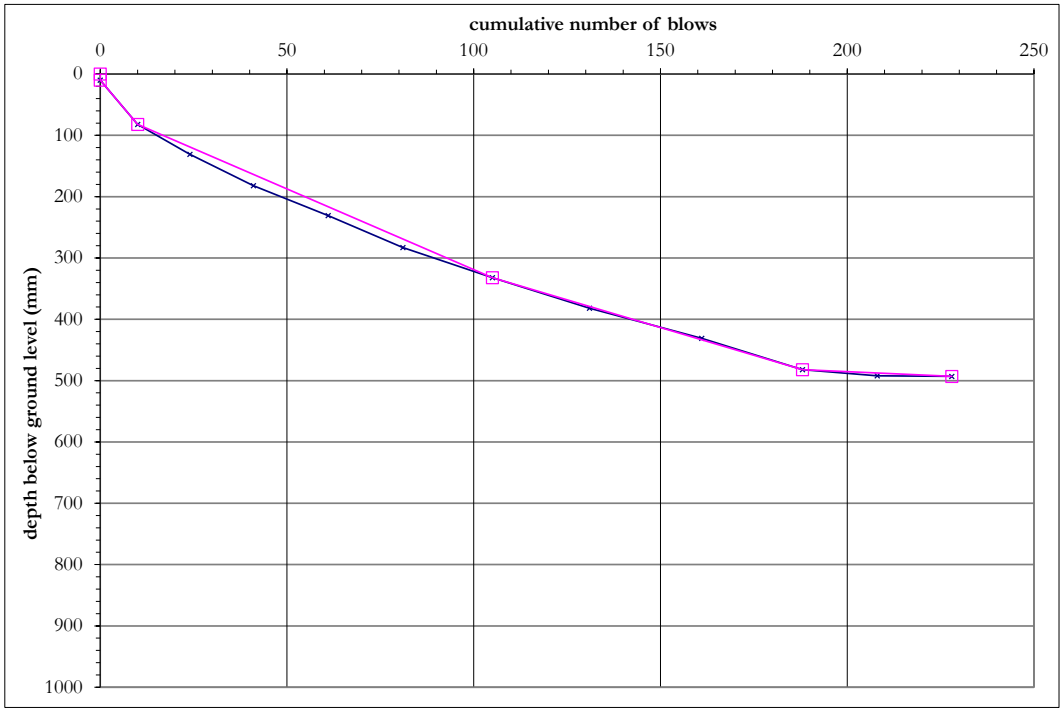
RECEIVED: 05/08/2026

Test Number	DCP38
Depth bgl (m)	0.00

Date Tested	31/05/2025
Weather	Wet

Test conducted in accordance with Documented In-House Technical Procedure IMS TP7-4 and DMRB CS 229 Rev 0
CBR calculated using the TRRL CBR DCP relationship: log10(CBR) = 2.48 - 1.057 x log10(mm/blow) in accordance with DMRB CS 229 Rev 0

Surface preparation	**Description of surface material at test depth**
None	GRAVEL



top / base of layer (mm)	mm/ blow	CBR (%)
0	N/A	N/A
10		
10	7.2	37
82		
82	2.6	>100
332		
332	1.8	>100
482		
482	0.3	>100
493		

CBR Range	Min: 37 Max: >100	The self-weight penetration at the start of the test (shown above) has not been included in the minimum and maximum values shown to the left. The selection of layers is based on visual interpretation of the data. The insitu DCP reading (mm/blow) and CBR values are valid at the time of testing; variation in moisture content or other factors may affect the insitu value. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report should not be reproduced except in full without the written approval of the laboratory.

Deviation(s) from standard procedure	None

Observations and comments	

Approved Name and Appointment		
Matthew Gilbert Associate		June 2025

UKAS TESTING 10122

Dynamic Cone Penetrometer (DCP) test results and estimated CBR

Project Number	24-0211
Project Name	Kingston Lands
Site Location	Galway

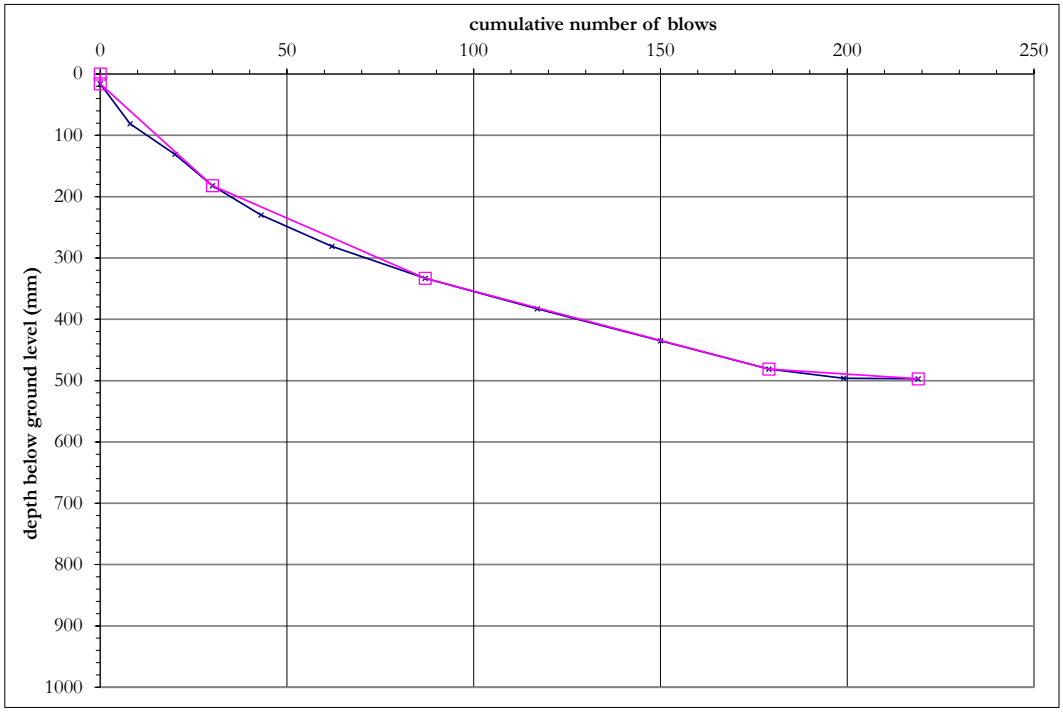
RECEIVED: 05/08/2026

Test Number	DCP39
Depth bgl (m)	0.00

Date Tested	31/05/2025
Weather	Wet

Test conducted in accordance with Documented In-House Technical Procedure IMS TP7-4 and DMRB CS 229 Rev 0
CBR calculated using the TRRL CBR DCP relationship: log10(CBR) = 2.48 - 1.057 x log10(mm/blow) in accordance with DMRB CS 229 Rev 0

Surface preparation	**Description of surface material at test depth**
None	GRAVEL



top / base of layer (mm)	mm/ blow	CBR (%)
0	N/A	N/A
16		
16	5.5	50
182		
182	2.6	>100
333		
333	1.6	>100
481		
481	0.4	>100
497		

CBR Range	Min: 50 Max: >100	The self-weight penetration at the start of the test (shown above) has not been included in the minimum and maximum values shown to the left. The selection of layers is based on visual interpretation of the data. The insitu DCP reading (mm/blow) and CBR values are valid at the time of testing; variation in moisture content or other factors may affect the insitu value. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report should not be reproduced except in full without the written approval of the laboratory.

Deviation(s) from standard procedure	None

Observations and comments	

Approved Name and Appointment		
Matthew Gilbert Associate		June 2025

UKAS TESTING 10122

Dynamic Cone Penetrometer (DCP) test results and estimated CBR

Project Number	24-0211
Project Name	Kingston Lands
Site Location	Galway

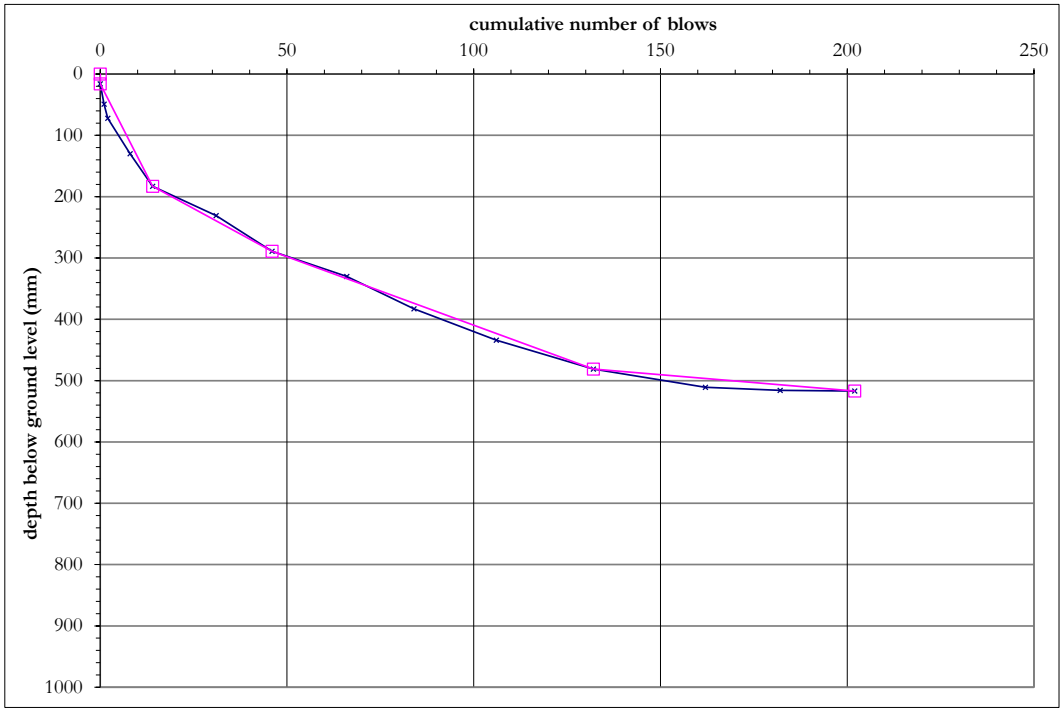
RECEIVED: 05/08/2026

Test Number	DCP40
Depth bgl (m)	0.00

Date Tested	31/05/2025
Weather	Wet

Test conducted in accordance with Documented In-House Technical Procedure IMS TP7-4 and DMRB CS 229 Rev 0
CBR calculated using the TRRL CBR DCP relationship: log10(CBR) = 2.48 - 1.057 x log10(mm/blow) in accordance with DMRB CS 229 Rev 0

Surface preparation	**Description of surface material at test depth**
None	GRAVEL



top / base of layer (mm)	mm/ blow	CBR (%)
0	N/A	N/A
16		
16	12	22
183		
183	3.3	85
289		
289	2.2	>100
481		
481	0.5	>100
517		

CBR Range	Min: 22 Max: >100	The self-weight penetration at the start of the test (shown above) has not been included in the minimum and maximum values shown to the left. The selection of layers is based on visual interpretation of the data. The insitu DCP reading (mm/blow) and CBR values are valid at the time of testing; variation in moisture content or other factors may affect the insitu value. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report should not be reproduced except in full without the written approval of the laboratory.

Deviation(s) from standard procedure	None

Observations and comments	

Approved Name and Appointment		
Matthew Gilbert Associate		June 2025

UKAS TESTING 10122

Dynamic Cone Penetrometer (DCP) test results and estimated CBR

Project Number	24-0211
Project Name	Kingston Lands
Site Location	Galway

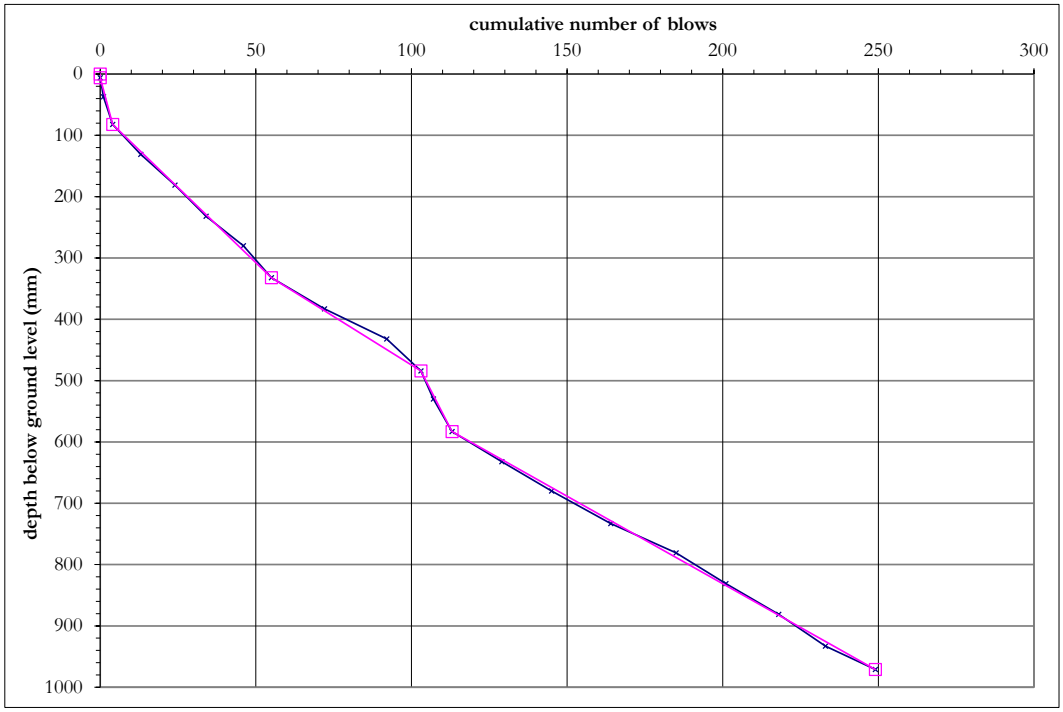
RECEIVED: 05/08/2026

Test Number	DCP41
Depth bgl (m)	0.00

Date Tested	31/05/2025
Weather	Wet

Test conducted in accordance with Documented In-House Technical Procedure IMS TP7-4 and DMRB CS 229 Rev 0
CBR calculated using the TRRL CBR DCP relationship: log10(CBR) = 2.48 - 1.057 x log10(mm/blow) in accordance with DMRB CS 229 Rev 0

Surface preparation	Description of surface material at test depth
None	GRAVEL



top / base of layer (mm)	mm/ blow	CBR (%)
0	N/A	N/A
6		
6	19	13
82		
82	4.9	56
332		
332	3.2	89
484		
484	9.9	27
583		
583	2.9	100
971		

CBR Range	Min: 13 Max: 100	The self-weight penetration at the start of the test (shown above) has not been included in the minimum and maximum values shown to the left. The selection of layers is based on visual interpretation of the data. The insitu DCP reading (mm/blow) and CBR values are valid at the time of testing; variation in moisture content or other factors may affect the insitu value. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report should not be reproduced except in full without the written approval of the laboratory.

Deviation(s) from standard procedure	None

Observations and comments	

Approved Name and Appointment		
Matthew Gilbert Associate		June 2025

UKAS TESTING 10122

Dynamic Cone Penetrometer (DCP) test results and estimated CBR

Project Number	24-0211
Project Name	Kingston Lands
Site Location	Galway

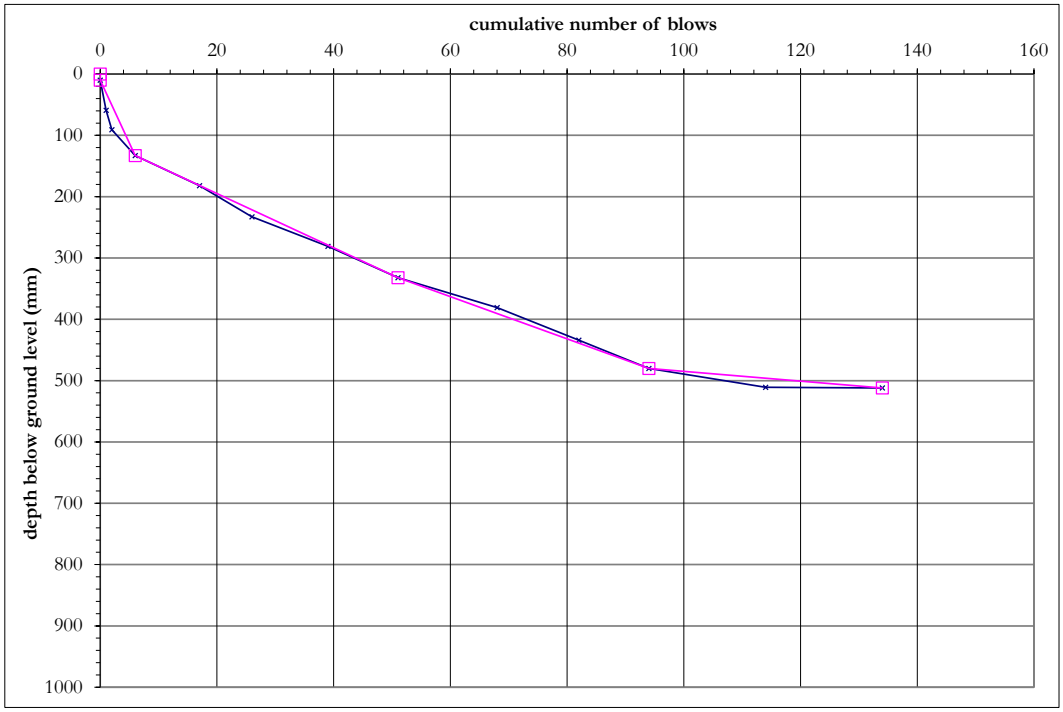
RECEIVED: 05/08/2026

Test Number	DCP42
Depth bgl (m)	0.00

Date Tested	31/05/2025
Weather	Wet

Test conducted in accordance with Documented In-House Technical Procedure IMS TP7-4 and DMRB CS 229 Rev 0
CBR calculated using the TRRL CBR DCP relationship: log10(CBR) = 2.48 - 1.057 x log10(mm/blow) in accordance with DMRB CS 229 Rev 0

Surface preparation	**Description of surface material at test depth**
None	TOPSOIL



top / base of layer (mm)	mm/ blow	CBR (%)
0	N/A	N/A
10		
10	21	12
133		
133	4.4	63
332		
332	3.4	82
480		
480	0.8	>100
512		

CBR Range	Min: 12 Max: >100	The self-weight penetration at the start of the test (shown above) has not been included in the minimum and maximum values shown to the left. The selection of layers is based on visual interpretation of the data. The insitu DCP reading (mm/blow) and CBR values are valid at the time of testing; variation in moisture content or other factors may affect the insitu value. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report should not be reproduced except in full without the written approval of the laboratory.

Deviation(s) from standard procedure	None

Observations and comments	

Approved Name and Appointment		
Matthew Gilbert Associate		June 2025

UKAS TESTING 10122

Dynamic Cone Penetrometer (DCP) test results and estimated CBR

Project Number	24-0211
Project Name	Kingston Lands
Site Location	Galway

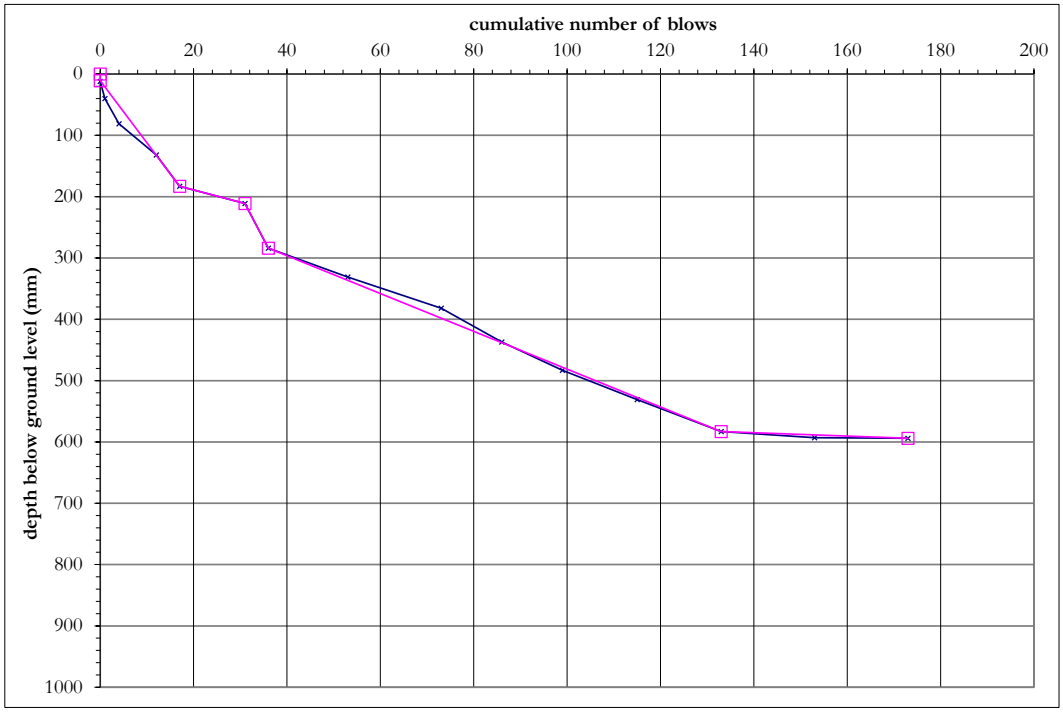
RECEIVED: 05/08/2026

Test Number	DCP43
Depth bgl (m)	0.00

Date Tested	31/05/2025
Weather	Wet

Test conducted in accordance with Documented In-House Technical Procedure IMS TP7-4 and DMRB CS 229 Rev 0
CBR calculated using the TRRL CBR DCP relationship: log10(CBR) = 2.48 - 1.057 x log10(mm/blow) in accordance with DMRB CS 229 Rev 0

Surface preparation	Description of surface material at test depth
None	TOPSOIL



top / base of layer (mm)	mm/ blow	CBR (%)
0	N/A	N/A
11		
11	10	26
183		
183	2	>100
211		
211	15	18
284		
284	3.1	92
583		
583	0.3	>100
594		

CBR Range	Min: 18 Max: >100	The self-weight penetration at the start of the test (shown above) has not been included in the minimum and maximum values shown to the left. The selection of layers is based on visual interpretation of the data. The insitu DCP reading (mm/blow) and CBR values are valid at the time of testing; variation in moisture content or other factors may affect the insitu value. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report should not be reproduced except in full without the written approval of the laboratory.

Deviation(s) from standard procedure	None

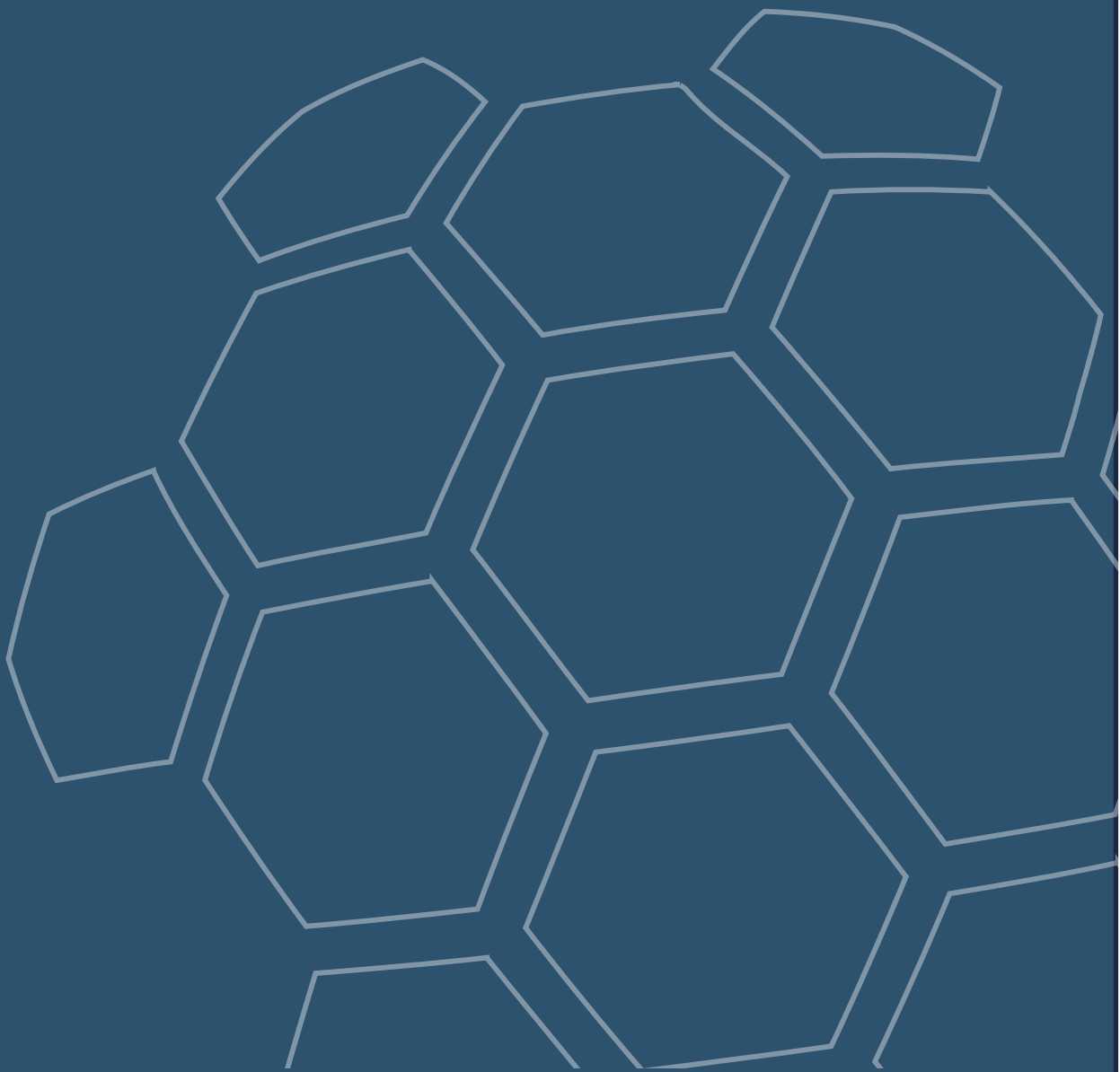
Observations and comments	

Approved Name and Appointment		
Matthew Gilbert Associate	M. Gilbert	June 2025

UKAS TESTING 10122

APPENDIX K – GROUNDWATER & GAS MONITORING RECORDS

RECEIVED: 05/08/2026



Groundwater Ground Gas Monitoring

RECEIVED: 05/08/2026

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	13/06/2025
Weather:	Dry
Engineer:	EGA
Monitoring Round:	1

Equipment:		Geotechnical Instruments GA5000					
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	11:02	1020	0.1	0.1	20.9	0	0
After:	16:27	1023	0.0	0.0	21.4	1	0

Borehole No. **BH01** Time: 11:10:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.1	0.1	20.7	2	0
60	0.1	0.1	20.7	2	0
90	0.1	0.1	20.6	3	0
120	0.1	0.1	20.6	4	0
150	0.0	0.2	20.5	5	0
180	0.0	0.2	20.5	6	0
240	0.0	0.2	20.4	7	0
300	0.0	0.2	20.3	7	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.1
60	0.1
90	0.1
120	0.1
150	0.1
180	0.1
240	0.1
300	0.1

Groundwater monitoring	mbgl
Depth to top of water	3.30
Depth to bottom of BH	7.70
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH02** Time: 11:25:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.5	20.1	0	0
60	0.0	1.6	18.8	0	0
90	0.0	2.3	18.1	0	0
120	0.0	2.6	17.7	0	0
150	0.0	2.8	17.6	0	0
180	0.0	2.9	17.5	0	0
240	0.0	3.0	17.4	0	0
300	0.0	3.0	17.4	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.4
120	0.3
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	3.20
Depth to bottom of BH	3.60
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH03** Time: 11:50:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.2	20.1	0	0
60	0.0	0.1	18.8	0	0
90	0.0	0.1	18.1	0	0
120	0.0	0.1	17.7	0	0
150	0.0	0.1	17.6	0	0
180	0.0	0.1	17.5	0	0
240	0.0	0.1	17.4	0	0
300	0.0	0.1	17.4	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.4
120	0.3
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	1.01
Depth to bottom of BH	3.00
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH06** Time: 12:15:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	1.9	17.8	0	0
60	0.0	1.9	17.8	0	0
90	0.0	1.9	17.8	0	0
120	0.0	1.9	17.8	0	0
150	0.0	1.9	17.8	0	0
180	0.0	1.9	17.8	0	0
240	0.0	1.9	17.8	0	0
300	0.0	1.9	17.8	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.2
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	2.57
Depth to bottom of BH	3.00
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH07** Time: 12:50:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.1	20.5	2	0
60	0.0	0.0	20.5	0	0
90	0.0	0.0	20.5	0	0
120	0.0	0.0	20.6	0	0
150	0.0	0.0	200.5	0	0
180	0.0	0.0	20.6	0	0
240	0.0	0.0	20.6	0	0
300	0.0	0.0	20.6	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	0.43
Depth to bottom of BH	2.80
Sample collected (Y/N)	N
Sample depth	N/A

Groundwater Ground Gas Monitoring

RECEIVED: 05/08/2026

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	13/06/2025
Weather:	Dry
Engineer:	EGA
Monitoring Round:	1

Equipment:	Geotechnical Instruments GA5000						
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	11:02	1020	0.1	0.1	20.9	0	0
After:	16:27	1023	0.0	0.0	21.4	1	0

Borehole No. **BH08** Time: 13:30:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	1.0	19.3	1	0
60	0.0	1.8	18.3	0	0
90	0.0	3.3	16.5	0	0
120	0.0	3.6	16.0	0	0
150	0.0	4.0	15.8	0	0
180	0.0	4.4	15.1	0	0
240	0.0	5.2	14.4	0	0
300	0.0	6.2	13.6	0	0
360	0.0	6.4	13.3	0	0
420	0.0	6.4	13.3	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	1.66
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH09** Time: 13:55:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	5.1	14.6	1	0
60	0.0	5.2	14.5	0	0
90	0.0	5.2	14.5	0	0
120	0.0	5.2	14.5	0	0
150	0.0	5.2	14.5	0	0
180	0.0	5.2	14.5	0	0
240	0.0	5.2	14.5	0	0
300	0.0	5.2	14.5	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	1.53
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH15** Time: 15:25:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	2.3	18.7	1	0
60	0.0	2.8	18.5	0	0
90	0.0	2.9	18.4	1	0
120	0.0	3.0	18.3	0	0
150	0.0	3.0	18.3	0	0
180	0.0	3.0	18.3	0	0
240	0.0	3.0	18.4	0	0
300	0.0	3.0	18.4	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	1.46
Depth to bottom of BH	1.49
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH16** Time: 15:05:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	1.3	18.7	2	0
60	0.0	2.6	16.0	1	0
90	0.0	3.8	14.6	1	0
120	0.0	4.1	14.1	1	0
150	0.0	4.2	14.0	0	0
180	0.0	4.3	13.8	1	0
240	0.0	4.3	13.7	0	0
300	0.0	4.4	13.7	0	0
360	0.0	4.3	13.8	0	0
420	0.0	4.3	13.8	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.4
120	0.4
150	0.3
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	1.20
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH18** Time: 14:45:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	2.9	17.0	1	0
60	0.0	3.3	16.7	0	0
90	0.0	3.3	16.6	0	0
120	0.0	3.3	16.6	0	0
150	0.0	3.3	16.7	0	0
180	0.0	3.3	16.7	0	0
240	0.0	3.4	16.5	0	0
300	0.0	3.5	16.3	0	0
360	0.0	3.3	17.9	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	2.65
Sample collected (Y/N)	N
Sample depth	N/A

Groundwater Ground Gas Monitoring

RECEIVED: 05/08/2026

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	13/06/2025
Weather:	Dry
Engineer:	EGA
Monitoring Round:	1

Equipment:	Geotechnical Instruments GA5000						
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	11:02	1020	0.1	0.1	20.9	0	0
After:	16:27	1023	0.0	0.0	21.4	1	0

Borehole No. **BH19** Time: 14:15:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.1	20.3	1	0
60	0.0	0.1	20.3	1	0
90	0.0	0.1	20.2	0	0
120	0.0	0.1	20.3	1	0
150	0.0	0.1	20.3	1	0
180	0.0	0.1	20.2	1	0
240	0.0	0.1	20.2	1	0
300	0.0	0.1	20.2	1	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	1.42
Depth to bottom of BH	6.19
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH19A** Time: 14:25:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.1	20.4	2	0
60	0.0	0.4	20.1	1	0
90	0.0	2.0	18.6	1	0
120	0.0	3.4	17.6	0	0
150	0.0	3.8	17.3	0	0
180	0.0	3.7	17.4	0	0
240	0.0	3.5	17.6	0	0
300	0.0	3.5	17.9	0	0
360	0.0	3.3	17.9	0	0
420	0.0	3.3	17.9	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.1
60	0.2
90	0.2
120	0.2
150	0.1
180	0.1
240	0.1
300	0.1

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	0.59
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH23** Time: 15:40:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	1.5	18.8	2	0
60	0.0	2.4	17.5	1	0
90	0.0	3.0	16.9	1	0
120	0.0	3.1	16.9	1	0
150	0.0	3.1	16.9	1	0
180	0.0	3.1	16.9	1	0
240	0.0	3.1	16.9	1	0
300	0.0	3.1	16.9	1	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	2.64
Depth to bottom of BH	2.68
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH25A** Time: 15:55:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.7	20.0	2	0
60	0.0	0.8	19.9	1	0
90	0.0	0.9	19.7	1	0
120	0.0	1.0	19.5	1	0
150	0.0	1.1	19.4	1	0
180	0.0	1.2	19.2	1	0
240	0.0	1.6	18.7	1	0
300	0.0	2.0	18.2	1	0
360	0.0	2.4	17.7	1	0
420	0.0	2.5	17.5	1	0
480	0.0	2.6	17.5	1	0
550	0.0	2.6	17.5	1	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.2
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	1.80
Depth to bottom of BH	6.38
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH26** Time: 16:15:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.1	20.4	1	0
60	0.0	0.4	30.1	1	0
90	0.0	0.9	19.5	1	0
120	0.0	1.2	19.2	1	0
150	0.0	1.2	19.2	1	0
180	0.0	1.1	19.4	1	0
240	0.0	0.8	19.8	1	0
300	0.0	1.1	19.4	1	0
360	0.0	1.4	19.0	1	0
420	0.0	1.3	19.2	1	0
480	0.0	0.9	19.7	1	0
540	0.0	0.9	19.7	1	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.0
60	0.0
90	0.1
120	0.1
150	0.0
180	0.1
240	0.1
300	0.1

Groundwater monitoring	mbgl
Depth to top of water	2.01
Depth to bottom of BH	2.04
Sample collected (Y/N)	N
Sample depth	N/A

Groundwater Ground Gas Monitoring

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	02/07/2025
Weather:	Sunny
Engineer:	OR
Monitoring Round:	2

Equipment:		Geotechnical Instruments GA5000					
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	11:04	1015	0.2	0.1	21.1	0	0
After:	17:10	1019	0.0	0.1	21.0	0	0

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Borehole No. **BH01** Time: 14:44:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	2.4	18.1	1	0
60	0.0	2.4	17.7	0	0
90	0.0	2.6	17.5	0	0
120	0.0	2.7	17.4	0	0
150	0.0	2.8	17.3	0	0
180	0.0	3.1	17.0	0	0
240	0.0	3.8	16.5	0	0
300	0.0	3.1	17.2	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.4
60	0.5
90	0.5
120	0.5
150	0.5
180	0.5
240	0.5
300	0.5

Groundwater monitoring	mbgl
Depth to top of water	3.10
Depth to bottom of BH	7.70
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH02** Time: 15:00:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.7	17.9	1	0
60	0.0	0.6	17.9	1	0
90	0.0	0.6	17.9	1	0
120	0.0	0.6	18.1	1	0
150	0.0	0.5	18.4	1	0
180	0.0	0.5	18.7	1	0
240	0.0	0.4	19.3	1	0
300	0.0	0.3	19.6	1	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	3.19
Depth to bottom of BH	3.60
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH03** Time: 15:30:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	3.4	16.9	0	0
60	0.0	2.4	17.8	0	0
90	0.0	2.5	17.7	0	0
120	0.0	2.4	17.8	0	0
150	0.0	2.1	18.1	0	0
180	0.0	1.9	18.3	0	0
240	0.0	1.5	18.8	0	0
300	0.0	1.3	19.1	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	1.02
Depth to bottom of BH	3.00
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH06** Time: 16:08:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.9	20.1	0	0
60	0.0	0.9	20.1	0	0
90	0.0	0.9	20.1	0	0
120	0.0	0.8	20.2	0	0
150	0.0	0.8	20.2	0	0
180	0.0	0.8	20.3	0	0
240	0.0	0.7	20.3	0	0
300	0.0	0.7	20.3	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.4
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	2.73
Depth to bottom of BH	3.00
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH07** Time: 16:22:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.0	20.9	7	0
60	0.0	0.0	20.9	6	0
90	0.0	0.0	20.9	5	0
120	0.0	0.0	21.0	4	0
150	0.0	0.0	21.0	3	0
180	0.0	0.0	21.0	2	0
240	0.0	0.0	21.1	1	0
300	0.0	0.0	21.1	1	0

Flow rates	
Time (sec)	Flow (l/h)
30	4.3
60	5.3
90	6.1
120	6.2
150	6.3
180	6.4
240	6.5
300	6.5

Groundwater monitoring	mbgl
Depth to top of water	0.37
Depth to bottom of BH	2.80
Sample collected (Y/N)	N
Sample depth	N/A

Groundwater Ground Gas Monitoring

RECEIVED: 05/08/2026

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	02/07/2025
Weather:	Sunny
Engineer:	OR
Monitoring Round:	2

Equipment:		Geotechnical Instruments GA5000					
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	11:04	1015	0.2	0.1	21.1	0	0
After:	17:10	1019	0.0	0.1	21.0	0	0

Borehole No. **BH08** Time: 16:41:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	5.2	14.6	0	0
60	0.0	5.2	14.5	0	0
90	0.0	5.3	14.3	0	0
120	0.0	5.4	14.1	0	0
150	0.0	5.6	13.7	0	0
180	0.0	5.8	13.2	0	0
240	0.0	6.2	12.4	0	0
300	0.0	6.7	11.7	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.2
60	0.2
90	0.2
120	0.2
150	0.2
180	0.2
240	0.2
300	0.2

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	1.66
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH09** Time: 16:59:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	4.3	15.1	0	0
60	0.0	4.2	15.1	0	0
90	0.0	4.2	15.1	0	0
120	0.0	4.2	15.1	0	0
150	0.0	4.2	15.1	0	0
180	0.0	4.2	15.1	0	0
240	0.0	4.2	15.0	0	0
300	0.0	4.2	15.0	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.1
60	0.1
90	0.1
120	0.1
150	0.1
180	0.1
240	0.1
300	0.1

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	1.51
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH15** Time:

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	No access (landowner permission denied)				
60					
90					
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	
60	
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	
Depth to bottom of BH	
Sample collected (Y/N)	
Sample depth	

Borehole No. **BH16** Time: 14:03:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	2.0	17.5	1	0
60	0.0	2.3	17.0	0	0
90	0.0	2.5	16.7	0	0
120	0.0	2.8	16.3	0	0
150	0.0	3.1	15.8	0	0
180	0.0	3.6	15.1	0	0
240	0.0	4.1	14.2	0	0
300	0.0	4.3	14.0	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.4
60	0.4
90	0.5
120	0.5
150	0.4
180	0.4
240	0.4
300	0.5

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	1.20
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH18** Time: 13:42:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.1	2.5	18.3	0	0
60	0.1	2.5	18.4	0	0
90	0.1	2.3	18.5	0	0
120	0.1	2.2	18.6	0	0
150	0.1	2.1	18.7	0	0
180	0.1	2.0	18.8	0	0
240	0.1	1.9	18.9	0	0
300	0.1	2.0	19.0	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	2.65
Sample collected (Y/N)	N
Sample depth	N/A

Groundwater Ground Gas Monitoring

RECEIVED: 05/08/2026

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	02/07/2025
Weather:	Sunny
Engineer:	OR
Monitoring Round:	2

Equipment:		Geotechnical Instruments GA5000					
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	11:04	1015	0.2	0.1	21.1	0	0
After:	17:10	1019	0.0	0.1	21.0	0	0

Borehole No. **BH19** Time: 11:22:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.1	5.1	13.6	0	0
60	0.1	5.6	13.0	0	0
90	0.1	5.6	13.0	0	0
120	0.1	5.5	13.0	0	0
150	0.1	5.5	13.0	0	0
180	0.1	5.5	13.0	0	0
240	0.1	5.4	13.1	0	0
300	0.1	5.3	13.1	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	1.31
Depth to bottom of BH	6.10
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH19A** Time: 11:09:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.1	4.9	16.1	0	0
60	0.1	4.9	16.0	0	0
90	0.1	4.8	16.0	0	0
120	0.1	4.8	16.2	0	0
150	0.1	4.7	16.3	0	0
180	0.1	4.6	16.5	0	0
240	0.1	4.3	16.8	0	0
300	0.1	4.1	17.1	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	0.59
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH23** Time:

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	No access (landowner permission denied)				
60					
90					
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	
60	
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	
Depth to bottom of BH	
Sample collected (Y/N)	
Sample depth	

Borehole No. **BH25** Time:

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	No access (landowner permission denied)				
60					
90					
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	
60	
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	
Depth to bottom of BH	
Sample collected (Y/N)	
Sample depth	

Borehole No. **BH25a** Time:

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	No access (landowner permission denied)				
60					
90					
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	
60	
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	
Depth to bottom of BH	
Sample collected (Y/N)	
Sample depth	

Groundwater Ground Gas Monitoring

RECEIVED: 05/08/2026

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	23/07/2025
Weather:	Overcast and mild
Engineer:	OR
Monitoring Round:	3

Equipment:		Geotechnical Instruments GA5000					
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	07:56	1012	0.1	0.1	21.0	0	0
After:	11:41	1016	0.0	0.1	20.6	0	0

Borehole No. **BH01** Time: 08:55:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.1	0.7	19.5	0	0
60	0.1	0.7	19.5	0	0
90	0.1	0.7	19.5	0	0
120	0.1	0.6	19.6	0	0
150	0.1	0.5	19.9	0	0
180	0.1	0.5	20.1	0	0
240	0.1	0.3	20.4	0	0
300	0.1	0.3	20.5	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	2.82
Depth to bottom of BH	7.70
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH02** Time: 09:18:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.6	20.3	0	0
60	0.0	0.7	20.2	0	0
90	0.0	0.7	20.2	0	0
120	0.0	0.8	20.1	0	0
150	0.0	1.3	19.7	0	0
180	0.0	1.8	19.3	0	0
240	0.0	2.1	19.0	0	0
300	0.0	2.1	19.0	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	2.81
Depth to bottom of BH	3.60
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH03** Time: 09:31:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.1	3.4	17.7	1	0
60	0.0	3.3	17.7	1	0
90	0.0	3.2	17.8	1	0
120	0.0	2.9	18.1	0	0
150	0.0	2.1	18.8	0	0
180	0.0	1.8	19.1	0	0
240	0.0	1.1	19.8	0	0
300	0.0	0.4	20.4	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.2
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	0.74
Depth to bottom of BH	3.00
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH06** Time: 09:52:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	1.4	19.5	0	0
60	0.0	1.5	19.4	0	0
90	0.0	1.6	19.3	0	0
120	0.0	1.7	19.2	0	0
150	0.0	1.7	19.1	0	0
180	0.0	1.8	19.0	0	0
240	0.0	1.9	18.9	0	0
300	0.0	2.0	18.7	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.2
60	0.2
90	0.2
120	0.2
150	0.2
180	0.2
240	0.2
300	0.2

Groundwater monitoring	mbgl
Depth to top of water	2.75
Depth to bottom of BH	3.00
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH07** Time: 10:18:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.7	20.4	5	0
60	0.0	0.6	20.4	3	0
90	Readings terminated due to entry of water into gas analyser				
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	0.0
60	0.0
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	0.13
Depth to bottom of BH	2.80
Sample collected (Y/N)	N
Sample depth	N/A

Groundwater Ground Gas Monitoring

RECEIVED: 05/08/2026

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	23/07/2025
Weather:	Overcast and mild
Engineer:	OR
Monitoring Round:	3

Equipment:		Geotechnical Instruments GA5000					
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	07:56	1012	0.1	0.1	21.0	0	0
After:	11:41	1016	0.0	0.1	20.6	0	0

Borehole No. **BH08** Time: 10:28:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	7.3	11.2	0	0
60	0.0	7.4	11.0	0	0
90	0.0	7.4	10.8	0	0
120	0.0	7.6	10.5	0	0
150	0.0	7.7	10.1	0	0
180	0.0	8.0	9.5	0	0
240	0.0	8.5	8.5	0	0
300	0.0	8.6	8.3	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	1.53
Depth to bottom of BH	1.66
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH09** Time: 08:07:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.1	6.1	11.1	0	0
60	0.1	6.2	10.6	0	0
90	0.1	6.2	10.6	0	0
120	0.1	6.2	10.6	0	0
150	0.1	6.2	10.5	0	0
180	0.1	6.2	10.5	0	0
240	0.1	6.2	10.4	0	0
300	0.1	6.4	10.3	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.1
60	0.1
90	0.1
120	0.1
150	0.1
180	0.1
240	0.1
300	0.1

Groundwater monitoring	mbgl
Depth to top of water	1.50
Depth to bottom of BH	1.51
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH15** Time:

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	No access (landowner permission denied)				
60					
90					
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	
60	
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	
Depth to bottom of BH	
Sample collected (Y/N)	
Sample depth	

Borehole No. **BH16** Time: 11:30:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.3	20.3	2	0
60	0.0	0.4	20.3	0	0
90	0.0	0.4	20.2	0	0
120	0.0	0.6	20.0	0	0
150	0.0	0.7	19.8	0	0
180	0.0	0.9	19.5	0	0
240	0.0	1.2	19.1	0	0
300	0.0	1.2	19.1	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.4
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	1.20
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH18** Time: 11:18:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	2.7	17.4	0	0
60	0.0	2.8	17.4	0	0
90	0.0	2.8	17.3	0	0
120	0.0	2.9	17.2	0	0
150	0.0	3.0	17.0	0	0
180	0.0	3.1	16.9	0	0
240	0.0	3.4	16.5	0	0
300	0.0	3.6	16.3	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.4
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	2.65
Sample collected (Y/N)	N
Sample depth	N/A

Groundwater Ground Gas Monitoring

RECEIVED: 05/08/2026

Site:	Kingston Lands, Galway
Project No.:	24-0211
Date:	23/07/2025
Weather:	Overcast and mild
Engineer:	OR
Monitoring Round:	3

Equipment:		Geotechnical Instruments GA5000					
Ambient Conditions	Time	Barometric Pressure	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
Before:	07:56	1012	0.1	0.1	21.0	0	0
After:	11:41	1016	0.0	0.1	20.6	0	0

Borehole No. **BH19** Time: 11:08:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	0.8	20.2	0	0
60	0.0	0.8	20.2	0	0
90	0.0	0.7	20.2	0	0
120	0.0	0.7	20.2	0	0
150	0.0	0.7	20.2	0	0
180	0.0	0.7	20.2	0	0
240	0.0	0.7	20.2	0	0
300	0.0	0.7	20.2	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.3
120	0.3
150	0.3
180	0.3
240	0.3
300	0.3

Groundwater monitoring	mbgl
Depth to top of water	1.11
Depth to bottom of BH	6.10
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH19A** Time: 10:57:00

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	0.0	5.6	15.0	1	0
60	0.0	5.7	14.9	0	0
90	0.0	5.8	14.9	0	0
120	0.0	5.8	14.9	0	0
150	0.0	5.9	14.9	0	0
180	0.0	5.8	15.0	0	0
240	0.0	5.6	15.3	0	0
300	0.0	5.1	15.8	0	0

Flow rates	
Time (sec)	Flow (l/h)
30	0.3
60	0.3
90	0.4
120	0.4
150	0.4
180	0.4
240	0.4
300	0.4

Groundwater monitoring	mbgl
Depth to top of water	Dry
Depth to bottom of BH	0.59
Sample collected (Y/N)	N
Sample depth	N/A

Borehole No. **BH23** Time:

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	No access (landowner permission denied)				
60					
90					
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	
60	
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	
Depth to bottom of BH	
Sample collected (Y/N)	
Sample depth	

Borehole No. **BH25** Time:

Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	No access (landowner permission denied)				
60					
90					
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	
60	
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	
Depth to bottom of BH	
Sample collected (Y/N)	
Sample depth	

Borehole No. **BH25A** Time:

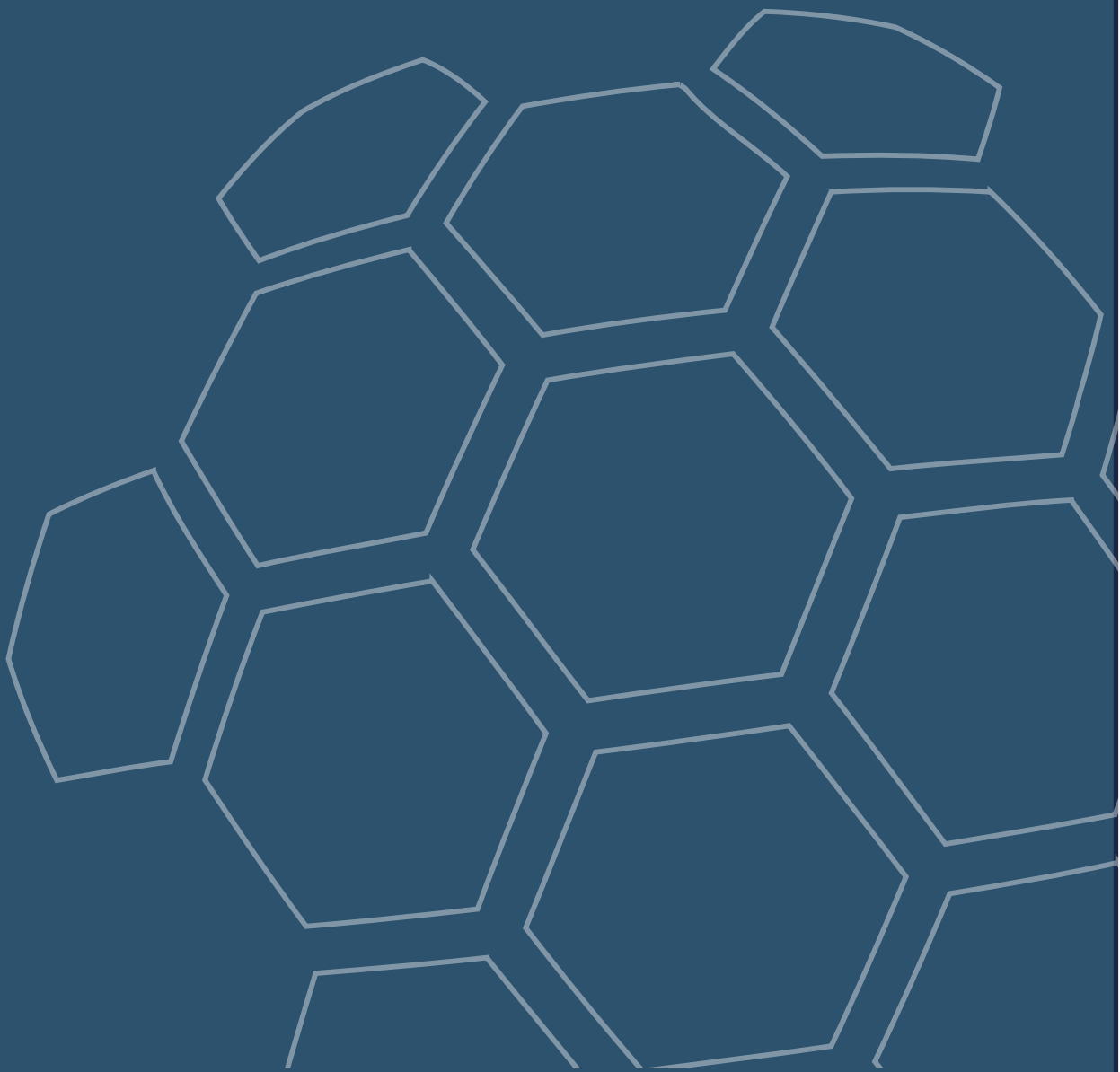
Gas readings					
Time (sec)	CH_4 (%)	CO_2 (%)	O_2 (%)	CO (ppm)	H_2S (ppm)
30	No access (landowner permission denied)				
60					
90					
120					
150					
180					
240					
300					

Flow rates	
Time (sec)	Flow (l/h)
30	
60	
90	
120	
150	
180	
240	
300	

Groundwater monitoring	mbgl
Depth to top of water	
Depth to bottom of BH	
Sample collected (Y/N)	
Sample depth	

APPENDIX L – GEOTECHNICAL LABORATORY TEST RESULTS

RECEIVED: 05/08/2026



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RECEIVED: 05/08/2026

SOIL AND ROCK SAMPLE ANALYSIS
LABORATORY TEST REPORT

25 July 2025

PROJECT NAME	Kingston Lands, Galway
PROJECT NUMBER	24-0211
CLIENT	King Construction
ENGINEER	TOBIN / MKO

We are pleased to attach the results of laboratory testing carried out for the above project. This memo and its attachments constitute a report of the results of tests as detailed in the Contents page(s). This testing was performed between 02/07/2025 and 24/07/2025.

The attached results complete the testing requested and we would therefore wish to confirm that samples will be retained without charge for a period of 28 days from the above date after which they will be appropriately disposed of unless we receive written instructions to the contrary prior to that date.

We trust our report meets with your approval but if you have any queries or require additional information, please do not hesitate to contact the undersigned.

Stephen Watson

Laboratory Manager

Signed for and on behalf of Causeway Geotech Ltd

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RECEIVED: 05/08/2026

PROJECT NAME: Kingston Lands, Galway

REPORT REFERENCE: Schedule 1

The table below details the tests carried out, the specifications used, and the number of tests included in this report. Tests marked with* in this report are not United Kingdom Accreditation Service (UKAS) accredited and are not included in Causeway Geotech Limited's scope of UKAS Accreditation Schedule of Tests.

The results contained in this report relate to the sample(s) as received. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report shall not be reproduced other than in full, without the prior written approval of the laboratory.

Material tested	Type of test/Properties measured/Range of measurement	Standard specifications	No. of results included in the report
SOIL	Water Content of Soil	*BS 1377-2: 2022: Cl 4 in accordance with ISO 17892-1:2014 + A1:2022*	18
SOIL	Liquid and Plastic Limits of soil-1 point cone penetrometer method	*BS 1377-2: 2022: Cl 5.3 in accordance with ISO 17892-12:2018 + A2:2022*	14
SOIL	Particle size distribution - wet sieving	*BS 1377-2: 2022: Cl 10 in accordance with ISO 17892-4:2016, Cl 5.2*	45
SOIL	Particle size distribution - sedimentation hydrometer method	*BS 1377-2: 2022: Cl 10 in accordance with ISO 17892-4:2016, Cl 5.3*	8

SUB-CONTRACTED TESTS

In agreement with Client, the following tests were conducted by an approved sub-contractor. All sub-contracting laboratories used are UKAS accredited.

Material tested	Type of test/Properties measured/Range of measurement	Standard specifications	No. of results included in the report
SOIL – Subcontracted to Normec DETS Limited *(UKAS 2139)*	pH Value of Soil	*Documented In-House Method No DETSC 2008 based on BS 1377: Part 3:1990*	44
SOIL – Subcontracted to Normec DETS Limited *(UKAS 2139)*	Sulphate Content water extract	*Documented In-House Method No DETSC 2004 based on BS 1377: Part 3:1990*	44
SOIL – Subcontracted to Normec DETS Limited (UKAS 2139)	Organic Matter Content	*Documented In-House Method No DETSC 2002 based on BS 1377: Part 3:1990*	2

CAUSEWAY GEOTECH

Summary of Classification Test Results

Project No.: 24-0211

Project Name: Kingston Lands, Galway

RECEIVED: 05/08/2026

Hole No.	Sample				Specimen Description	Density bulk	Density dry	w	Passing 425µm	LL	PL	PI	Particle density	Casagrande Classification
	Ref	Top	Base	Type		Mg/m3		%	%	%	%	%	Mg/m3	
BH03	10	2.00		D	Greyish brown sandy gravelly CLAY.			8.1	77	21 -1pt	14	7		CL
BH04	2	1.00		D	Dark brownish grey sandy slightly gravelly clayey SILT.			15	49	34 -1pt	26	8		ML
BH07	4	0.00		B	Dark brown pseudo-fibrous PEAT.			376						
BH08	3	0.00		B	Dark brown slightly sandy gravelly CLAY.			14.9	64	21 -1pt	15	6		ML/CL
BH09	3	0.00		B	Greyish brown sandy gravelly silty CLAY.			13.4	56	23 -1pt	15	8		CL
BH11	2	0.20		B	Greyish brown slightly sandy gravelly CLAY.			10.7	52	22 -1pt	14	8		CL
BH14	4	0.30		B	Brown sandy slightly gravelly clayey SILT.			8.8	44	95 -1pt	81	14		ME
BH15	3	1.00		D	Brownish grey slightly gravelly sandy clayey SILT.			23.7	36	40 -1pt	29	11		MI
BH16	3	1.00		D	Brown sandy slightly gravelly silty CLAY.			6.3	39	22 -1pt	15	7		CL
BH25A	1	0.50		B	Greyish brown sandy gravelly clayey SILT with cobbles.			17	37	77 -1pt	54	23		MV
SL03	1	1.15		B	Greyish brown slightly sandy organic clayey SILT.			35.2	51	109 -1pt	81	28		ME
SL04	1	1.40		B	Black amorphous PEAT.			400						

All tests performed in accordance with BS1377-2:2022 unless specified otherwise

LAB 26R - Version 2

Key

Density test | Liquid Limit | Particle density

Linear measurement unless : | 4pt cone unless : | sp - small pyknometer

wd - water displacement | cas - Casagrande method | gj - gas jar

wi - immersion in water | 1pt - single point test

Date Printed: 25/07/2025

Approved By: Stephen Watson

UKAS TESTING 10122

CAUSEWAY GEOTECH

Summary of Classification Test Results

Project No.: 24-0211

Project Name: Kingston Lands, Galway

RECEIVED: 05/08/2026

Hole No.	Sample				Specimen Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Casagrande Classification
	Ref	Top	Base	Type										
SL10	1	1.00		B	Greyish brown slightly gravelly sandy clayey SILT.			10.4	25	37 -1pt	28	9		MI
SL12	1	1.00		B	Light yellowish grey slightly sandy silty CLAY.			48.1	99	66 -1pt	28	38		CH
TP02	5	1.00		B	Light greyish brown slightly gravelly slightly silty fine to coarse SAND.			17.3	83	27 -1pt	19	8		CL
TP03	5	1.00		B	Light greyish brown slightly gravelly slightly clayey fine to coarse SAND.			8.9	86	21 -1pt	12	9		CL
TP07	12	3.00		B	Greyish black slightly sandy slightly silty angular fine to coarse GRAVEL with cobbles.			4						
TP11	5	1.00		D	Greyish brown slightly gravelly slightly clayey fine to coarse SAND.			9.1						

All tests performed in accordance with BS1377-2:2022 unless specified otherwise

LAB 26R - Version 2

Key

Density test	Liquid Limit	Particle density
Linear measurement unless :	4pt cone unless :	sp - small pyknometer
wd - water displacement	cas - Casagrande method	gj - gas jar
wi - immersion in water	1pt - single point test	

Date Printed: 25/07/2025

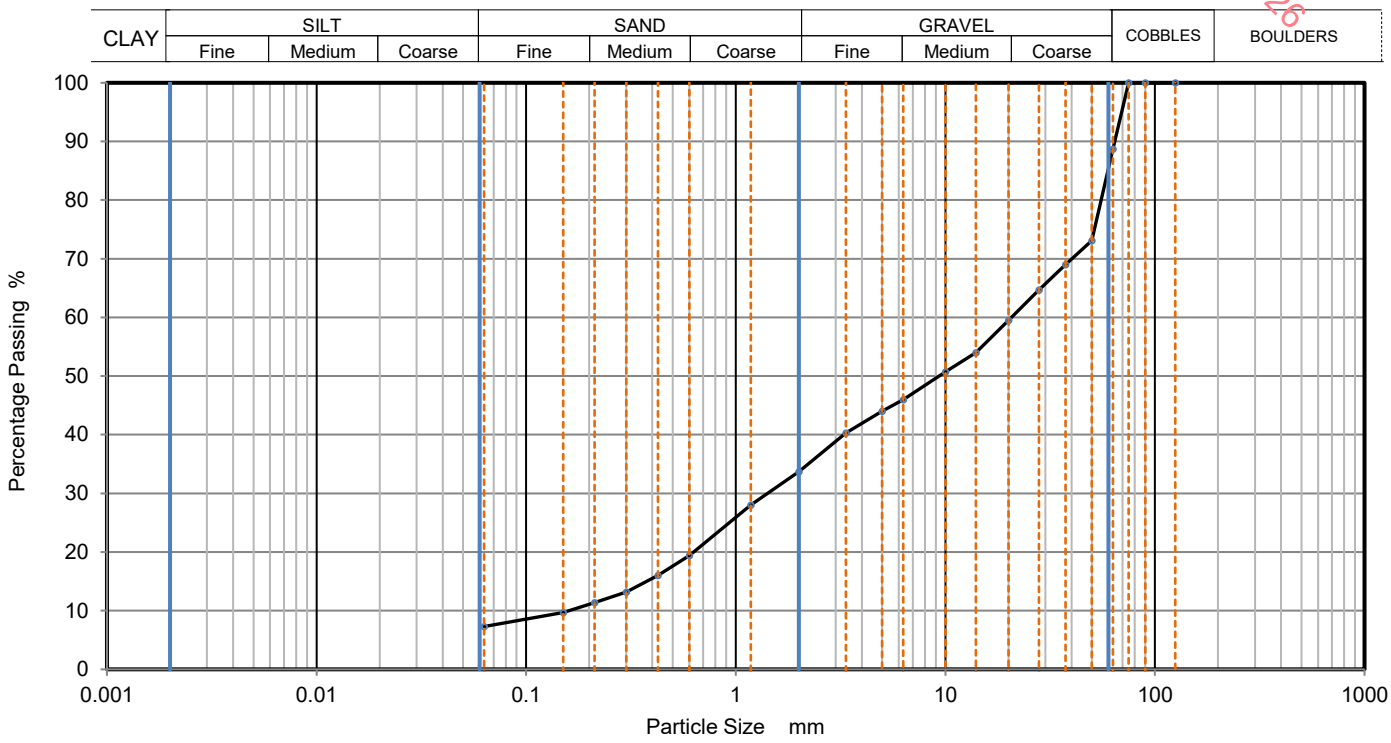
Approved By: Stephen Watson

UKAS TESTING 10122

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH02
Site Name	Kingston Lands, Galway			Sample No.	9
Specimen Description	Greyish brown sandy subangular fine to coarse GRAVEL with cobbles.			Sample Depth (m) Top	2.80
				Base	
Specimen Reference	3	Specimen Depth	2.8 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702194

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	89		
50	73		
37.5	69		
28	65		
20	60		
14	54		
10	51		
6.3	46		
5	44		
3.35	40		
2	34		
1.18	28		
0.6	19		
0.425	16		
0.3	13		
0.212	11		
0.15	10		
0.063	7		

Dry Mass of sample, g: 3440

Sample Proportions	% dry mass
Cobbles	11.3
Gravel	55.0
Sand	26.4
Fines <0.063mm	7.0

Grading Analysis		
D100	mm	
D60	mm	20.6
D30	mm	1.42
D10	mm	0.159
Uniformity Coefficient		130
Curvature Coefficient		0.62

Remarks

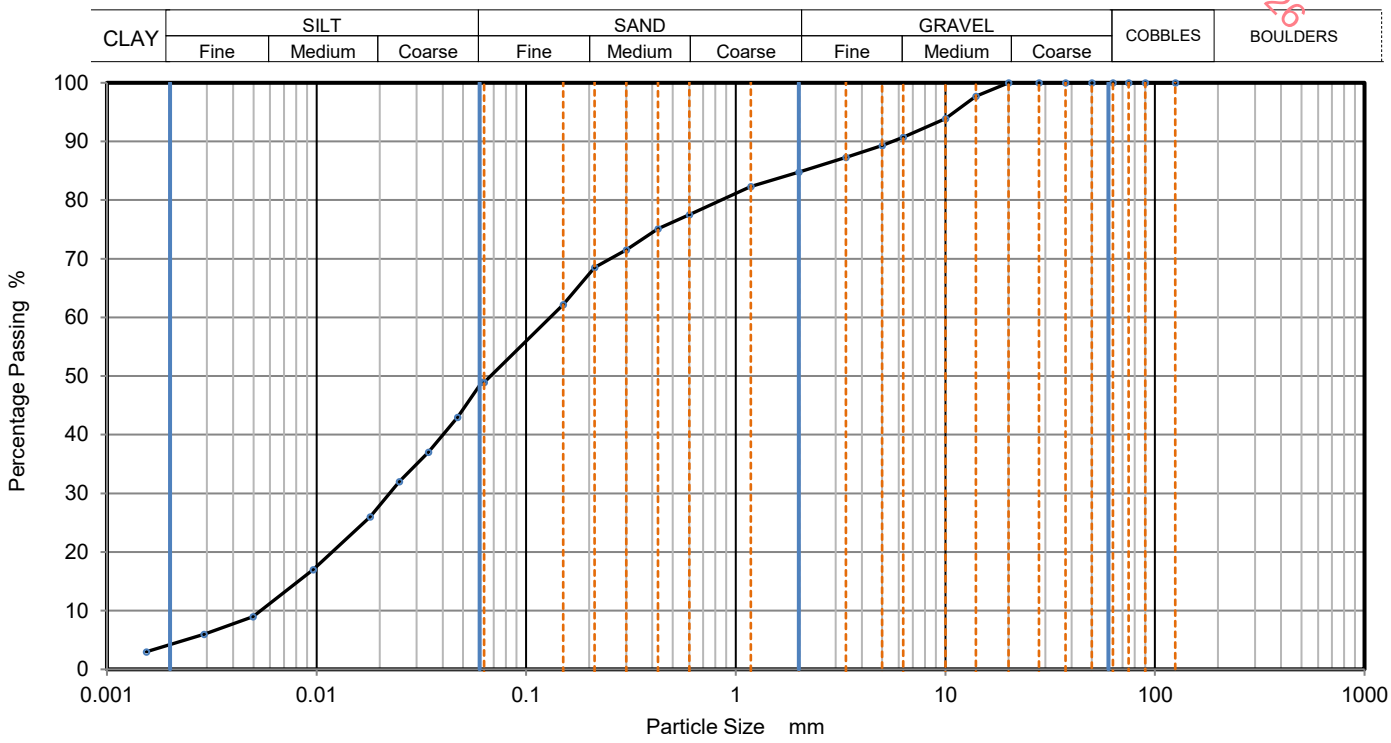
Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

Approved
Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH03
Site Name	Kingston Lands, Galway			Sample No.	7
Specimen Description	Greyish brown sandy slightly gravelly CLAY.			Sample Depth (m) Top	1.80
				Base	
Specimen Reference	3	Specimen Depth	1.8 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702200

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.06144	49
90	100	0.04704	43
75	100	0.03420	37
63	100	0.02482	32
50	100	0.01800	26
37.5	100	0.00963	17
28	100	0.00497	9
20	100	0.00290	6
14	98	0.00154	3
10	94		
6.3	91		
5	89		
3.35	87		
2	85		
1.18	82		
0.6	78	Particle density	(assumed)
0.425	75	2.65	Mg/m3
0.3	72		
0.212	69		
0.15	62		
0.063	49		

Dry Mass of sample, g: 594

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	15.2
Sand	35.9
Silt	44.8
Clay	4.1

Grading Analysis		
D100	mm	
D60	mm	0.13
D30	mm	0.0226
D10	mm	0.00552
Uniformity Coefficient		24
Curvature Coefficient		0.71

Remarks

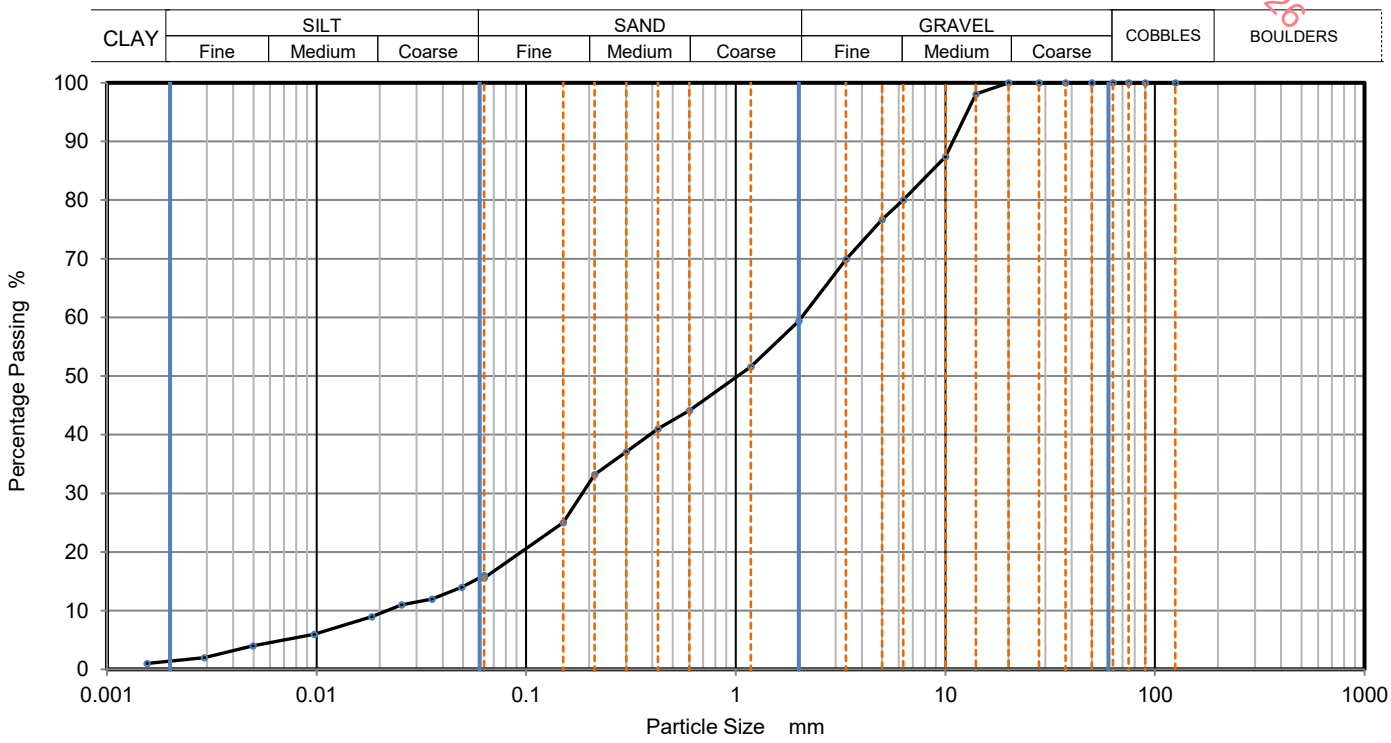
Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

Approved
Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH04
Site Name	Kingston Lands, Galway			Sample No.	6
Specimen Description	Dark brownish grey slightly gravelly clayey fine to coarse SAND.			Sample Depth (m) Top	1.20
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1.2 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702207

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.06300	16
90	100	0.04933	14
75	100	0.03555	12
63	100	0.02545	11
50	100	0.01832	9
37.5	100	0.00973	6
28	100	0.00497	4
20	100	0.00292	2
14	98	0.00155	1
10	87		
6.3	80		
5	77		
3.35	70		
2	59		
1.18	52		
0.6	44	Particle density	(assumed)
0.425	41	2.65	Mg/m3
0.3	37		
0.212	33		
0.15	25		
0.063	16		

Dry Mass of sample, g: 218

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	40.6
Sand	43.8
Silt	14.5
Clay	1.1

Grading Analysis		
D100	mm	
D60	mm	2.06
D30	mm	0.185
D10	mm	0.0205
Uniformity Coefficient		100
Curvature Coefficient		0.81

Remarks

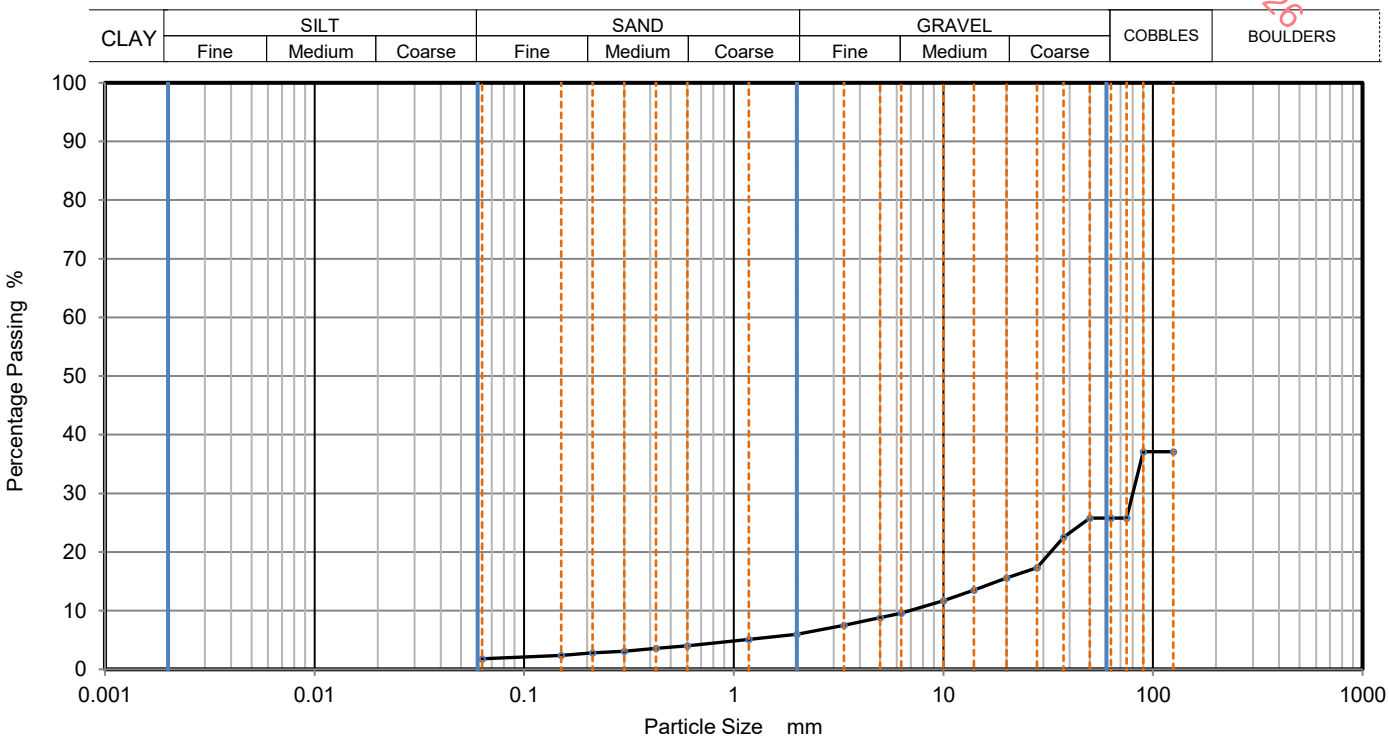
Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH06
Site Name	Kingston Lands, Galway			Sample No.	4
Specimen Description	Dark brownish grey COBBLES with some snady gravel.			Sample Depth (m) Top	1.00
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	D
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702213

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	37		
90	37		
75	26		
63	26		
50	26		
37.5	23		
28	17		
20	16		
14	14		
10	12		
6.3	10		
5	9		
3.35	8		
2	6		
1.18	5		
0.6	4		
0.425	4		
0.3	3		
0.212	3		
0.15	2		
0.063	2		

Dry Mass of sample, g: 7937

Sample Proportions	% dry mass
Cobbles	74.2
Gravel	19.8
Sand	4.2
Fines <0.063mm	2.0

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	80.3
D10	mm	6.9
Uniformity Coefficient		
Curvature Coefficient		

Remarks

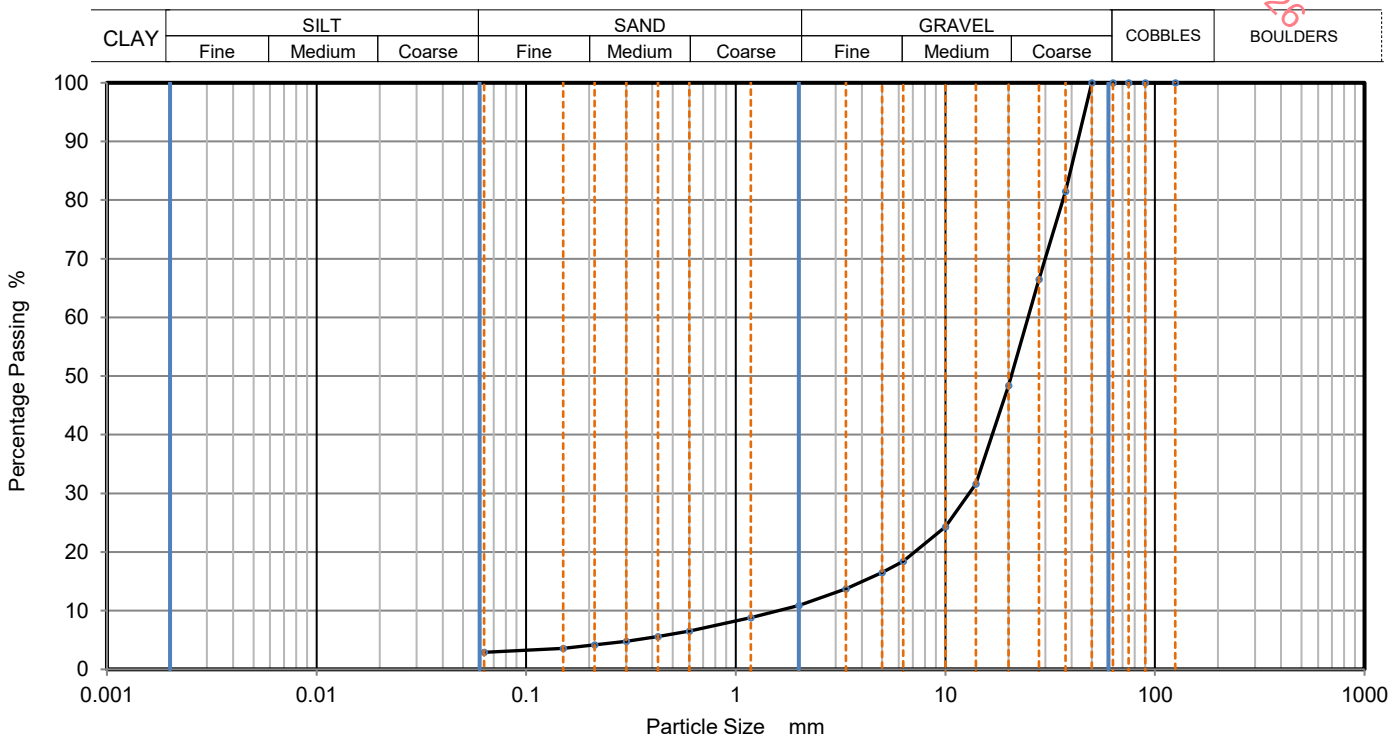
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Stephen Watson

UKAS TESTING 10122

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		BH07
Site Name	Kingston Lands, Galway				Sample No.		6
Specimen Description	Greyish brown slightly sandy subangular fine to coarse GRAVEL.				Sample Depth (m)	Top	2.00
						Base	
Specimen Reference	3	Specimen Depth	2	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702217

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	82		
28	67		
20	48		
14	32		
10	24		
6.3	18		
5	17		
3.35	14		
2	11		
1.18	9		
0.6	7		
0.425	6		
0.3	5		
0.212	4		
0.15	4		
0.063	3		

Dry Mass of sample, g	3648

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	89.1
Sand	8.0
Fines <0.063mm	3.0

Grading Analysis		
D100	mm	
D60	mm	24.8
D30	mm	13
D10	mm	1.58
Uniformity Coefficient		16
Curvature Coefficient		4.3

Remarks

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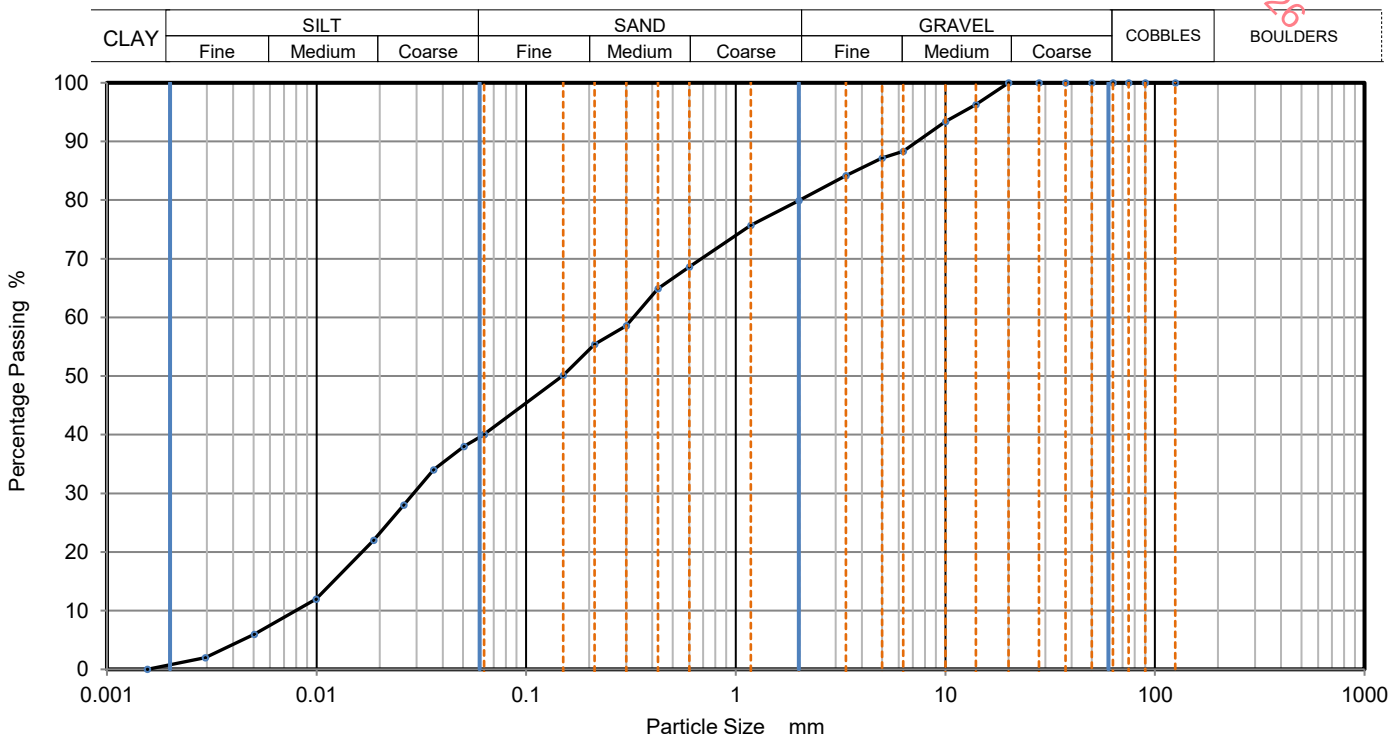
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UKAS TESTING

10122

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		BH09
Site Name	Kingston Lands, Galway				Sample No.		3
Specimen Description	Greyish brown sandy gravelly silty CLAY.				Sample Depth (m)	Top	0.00
						Base	
Specimen Reference	7	Specimen Depth	0	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702221

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.06300	40
90	100	0.05059	38
75	100	0.03621	34
63	100	0.02606	28
50	100	0.01874	22
37.5	100	0.00995	12
28	100	0.00505	6
20	100	0.00295	2
14	96	0.00156	0
10	93		
6.3	88		
5	87		
3.35	84		
2	80		
1.18	76		
0.6	69	Particle density	(assumed)
0.425	65	2.65	Mg/m3
0.3	59		
0.212	55		
0.15	50		
0.063	40		

Dry Mass of sample, g: 230

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	20.1
Sand	39.9
Silt	39.2
Clay	0.8

Grading Analysis		
D100	mm	
D60	mm	0.325
D30	mm	0.029
D10	mm	0.00791
Uniformity Coefficient		41
Curvature Coefficient		0.33

Remarks

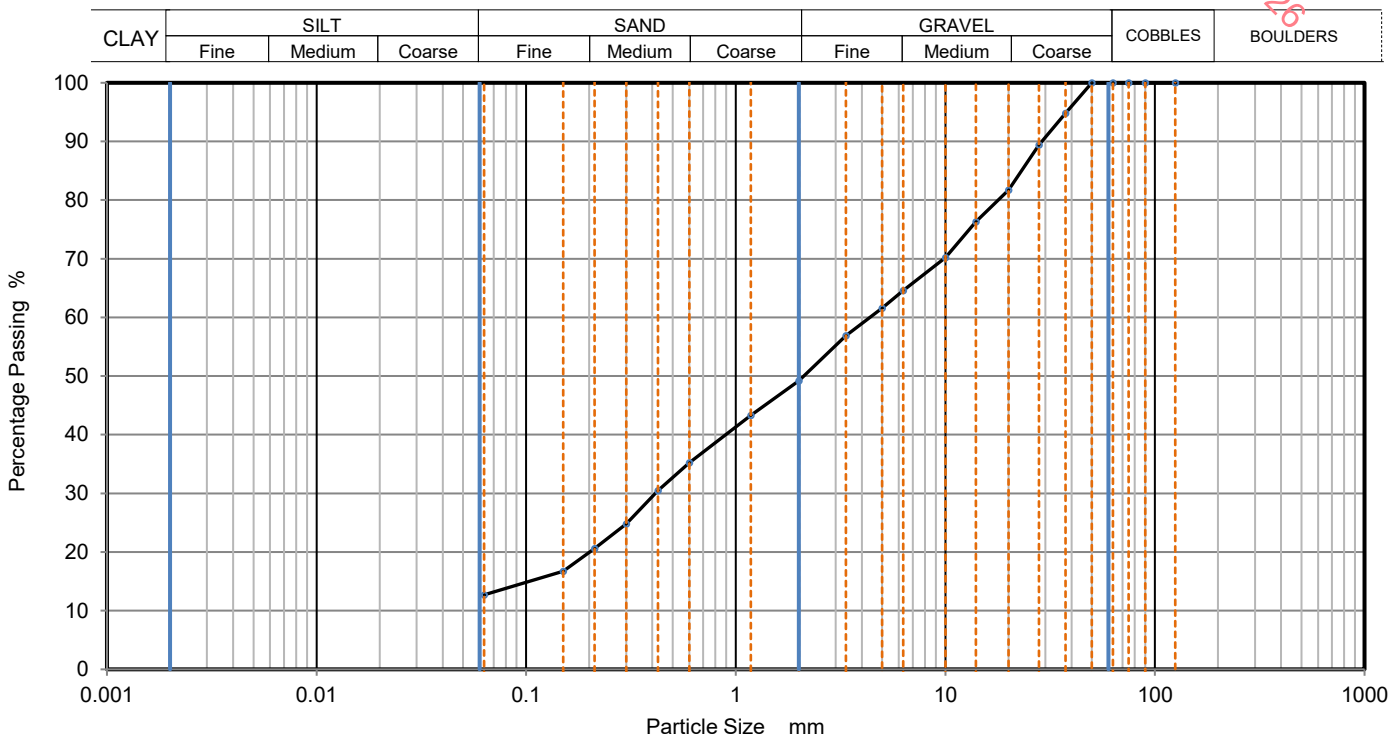
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UKAS TESTING

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		BH10
Site Name	Kingston Lands, Galway				Sample No.		4
Specimen Description	Brown slightly gravelly clayey fine to coarse SAND.				Sample Depth (m)	Top	1.00
						Base	
Specimen Reference	3	Specimen Depth	1	m	Sample Type		D
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702226

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	95		
28	89		
20	82		
14	76		
10	70		
6.3	65		
5	62		
3.35	57		
2	49		
1.18	43		
0.6	35		
0.425	31		
0.3	25		
0.212	21		
0.15	17		
0.063	13		

Dry Mass of sample, g	3322

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	50.8
Sand	36.5
Fines <0.063mm	13.0

Grading Analysis		
D100	mm	
D60	mm	4.37
D30	mm	0.411
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

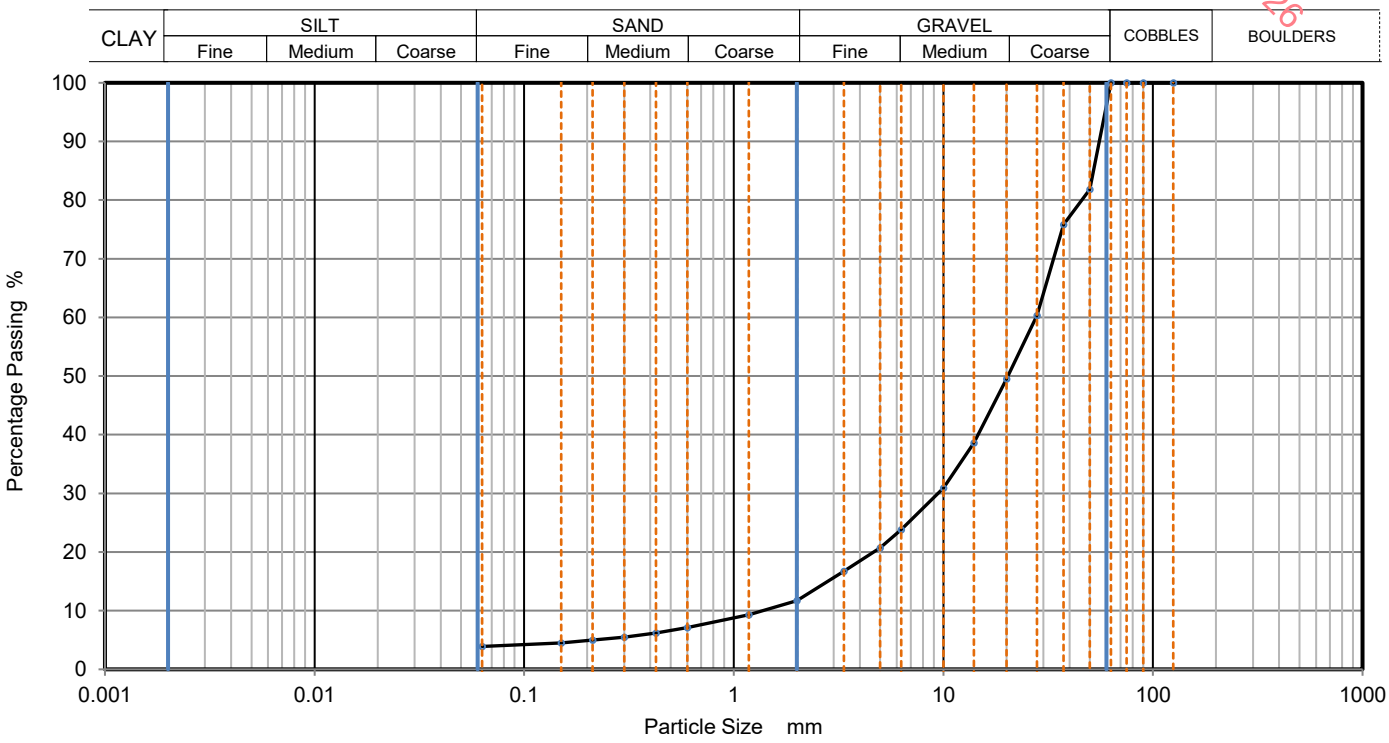
Remarks

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CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		BH11
Site Name	Kingston Lands, Galway				Sample No.		4
Specimen Description	Grey slightly sandy angular fine to coarse GRAVEL.				Sample Depth (m)	Top	1.20
						Base	
Specimen Reference	3	Specimen Depth	1.2	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702231

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	82		
37.5	76		
28	60		
20	50		
14	39		
10	31		
6.3	24		
5	21		
3.35	17		
2	12		
1.18	9		
0.6	7		
0.425	6		
0.3	6		
0.212	5		
0.15	5		
0.063	4		

Dry Mass of sample, g	4151

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	88.3
Sand	7.8
Fines <0.063mm	4.0

Grading Analysis		
D100	mm	
D60	mm	27.8
D30	mm	9.43
D10	mm	1.38
Uniformity Coefficient		20
Curvature Coefficient		2.3

Remarks

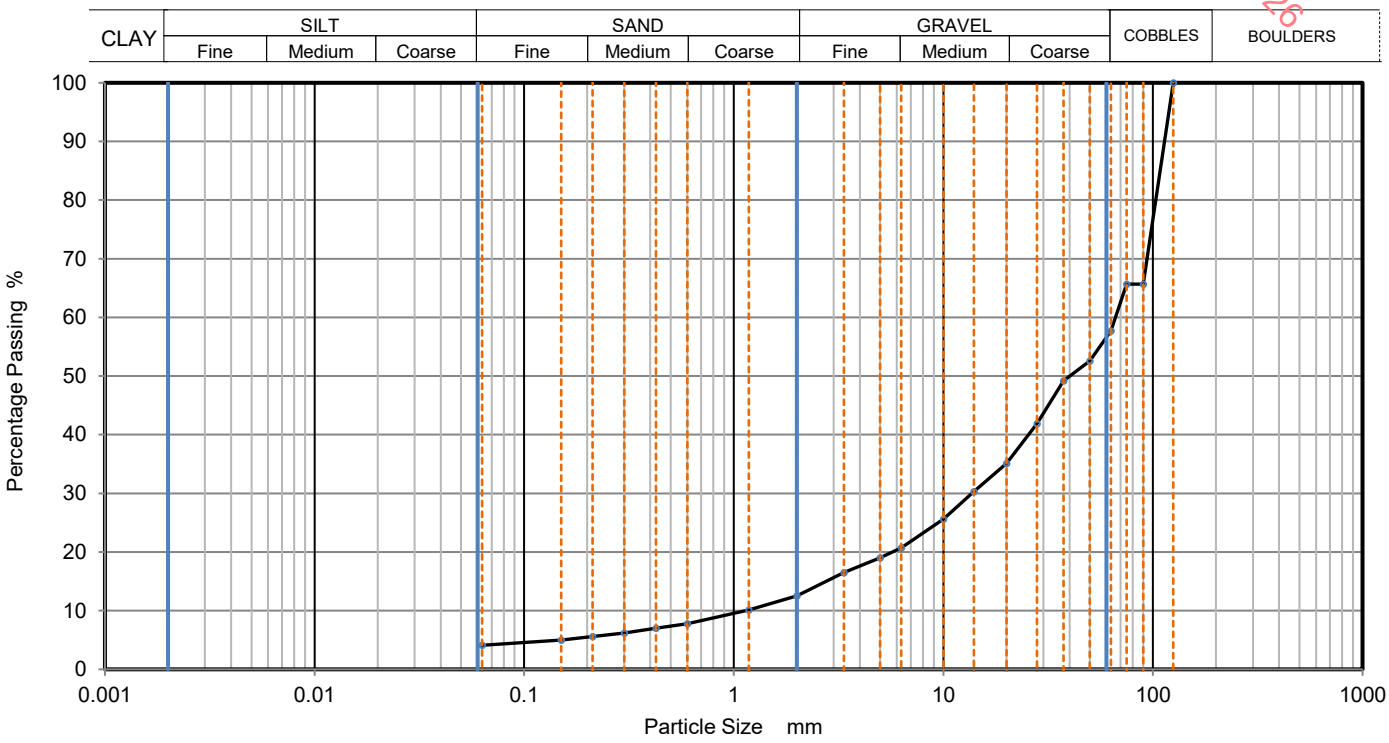
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH13
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Brownish grey slightly sandy angular fine to coarse GRAVEL with cobbles.			Sample Depth (m) Top	0.00
				Base	
Specimen Reference	3	Specimen Depth	0 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702233

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	66		
75	66		
63	58		
50	53		
37.5	49		
28	42		
20	35		
14	30		
10	26		
6.3	21		
5	19		
3.35	17		
2	13		
1.18	10		
0.6	8		
0.425	7		
0.3	6		
0.212	6		
0.15	5		
0.063	4		

Dry Mass of sample, g	4311

Sample Proportions	% dry mass
Cobbles	42.3
Gravel	45.2
Sand	8.4
Fines <0.063mm	4.0

Grading Analysis		
D100	mm	125
D60	mm	66.2
D30	mm	13.7
D10	mm	1.14
Uniformity Coefficient		58
Curvature Coefficient		2.5

Remarks

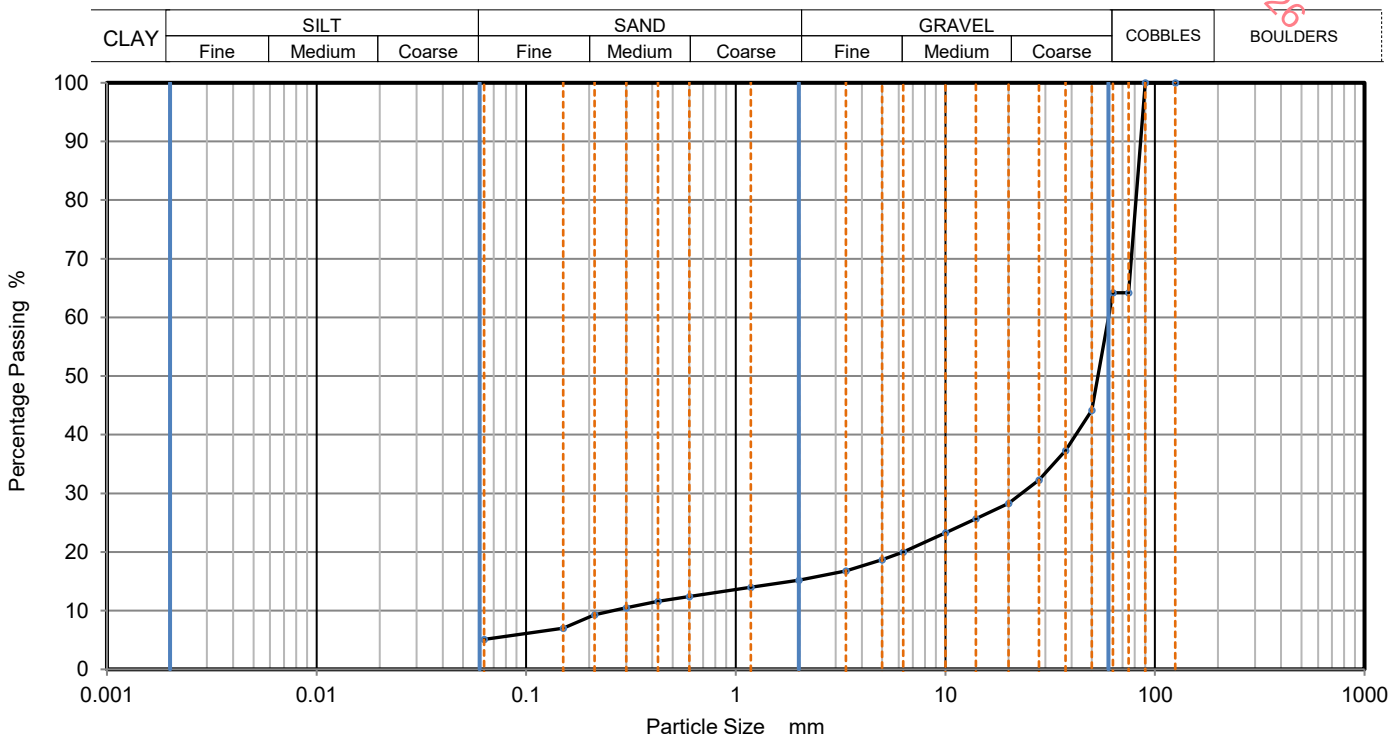
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH16
Site Name	Kingston Lands, Galway			Sample No.	2
Specimen Description	Grey slightly sandy subangular fine to coarse GRAVEL with cobbles.			Sample Depth (m) Top	0.20
				Base	
Specimen Reference	3	Specimen Depth	0.2 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702240

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	64		
63	64		
50	44		
37.5	37		
28	32		
20	28		
14	26		
10	23		
6.3	20		
5	19		
3.35	17		
2	15		
1.18	14		
0.6	12		
0.425	12		
0.3	11		
0.212	9		
0.15	7		
0.063	5		

Dry Mass of sample, g	8984

Sample Proportions	% dry mass
Cobbles	35.8
Gravel	49.0
Sand	10.2
Fines <0.063mm	5.0

Grading Analysis		
D100	mm	
D60	mm	60
D30	mm	23.1
D10	mm	0.259
Uniformity Coefficient		230
Curvature Coefficient		34

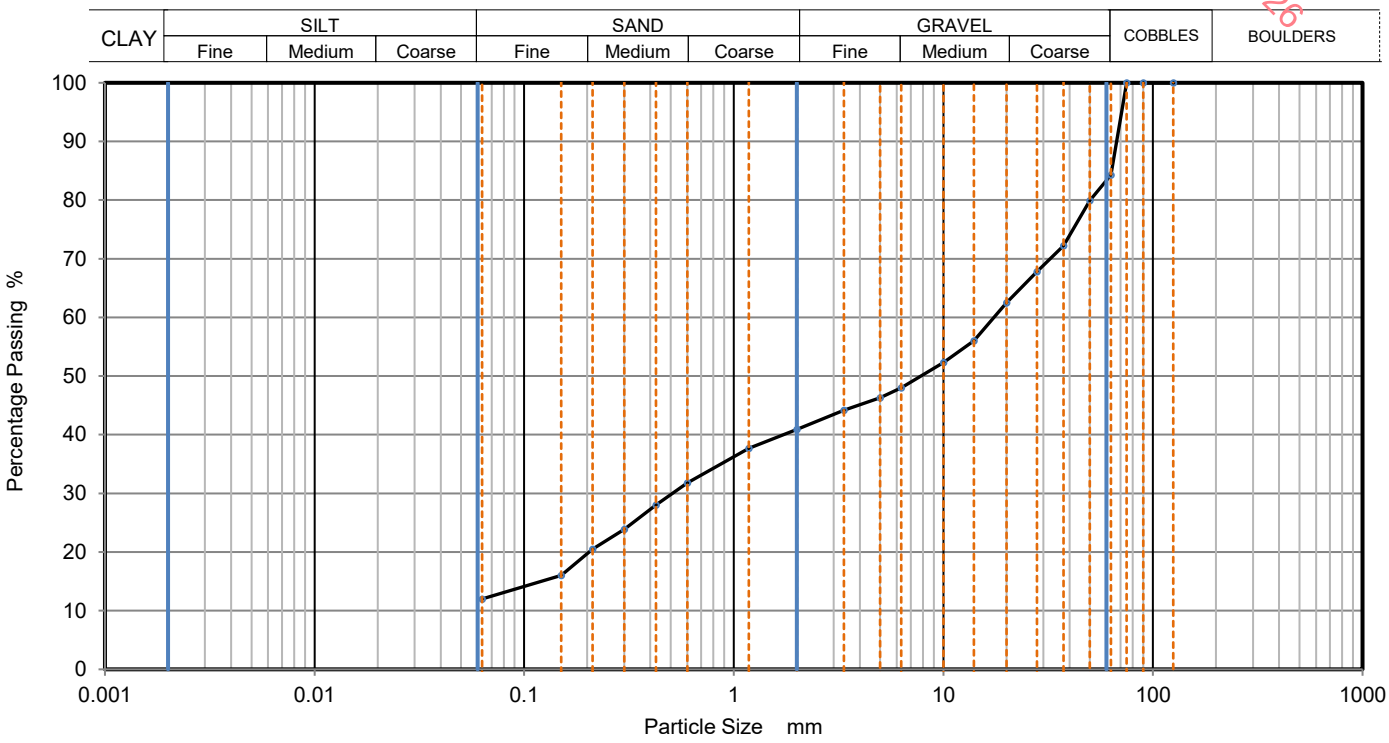
Remarks

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CAUSEWAY GEOTECH	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**24-0211**
				Borehole/Pit No.	BH18
Site Name	Kingston Lands, Galway			Sample No.	4
Specimen Description	Light brown sandy subangular fine to coarse GRAVEL.			Sample Depth (m) Top	1.65
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1.65 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702247

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	84		
50	80		
37.5	72		
28	68		
20	63		
14	56		
10	52		
6.3	48		
5	46		
3.35	44		
2	41		
1.18	38		
0.6	32		
0.425	28		
0.3	24		
0.212	21		
0.15	16		
0.063	12		

Dry Mass of sample, g	4531

Sample Proportions	% dry mass
Cobbles	15.7
Gravel	43.5
Sand	28.9
Fines <0.063mm	12.0

Grading Analysis		
D100	mm	
D60	mm	17.4
D30	mm	0.51
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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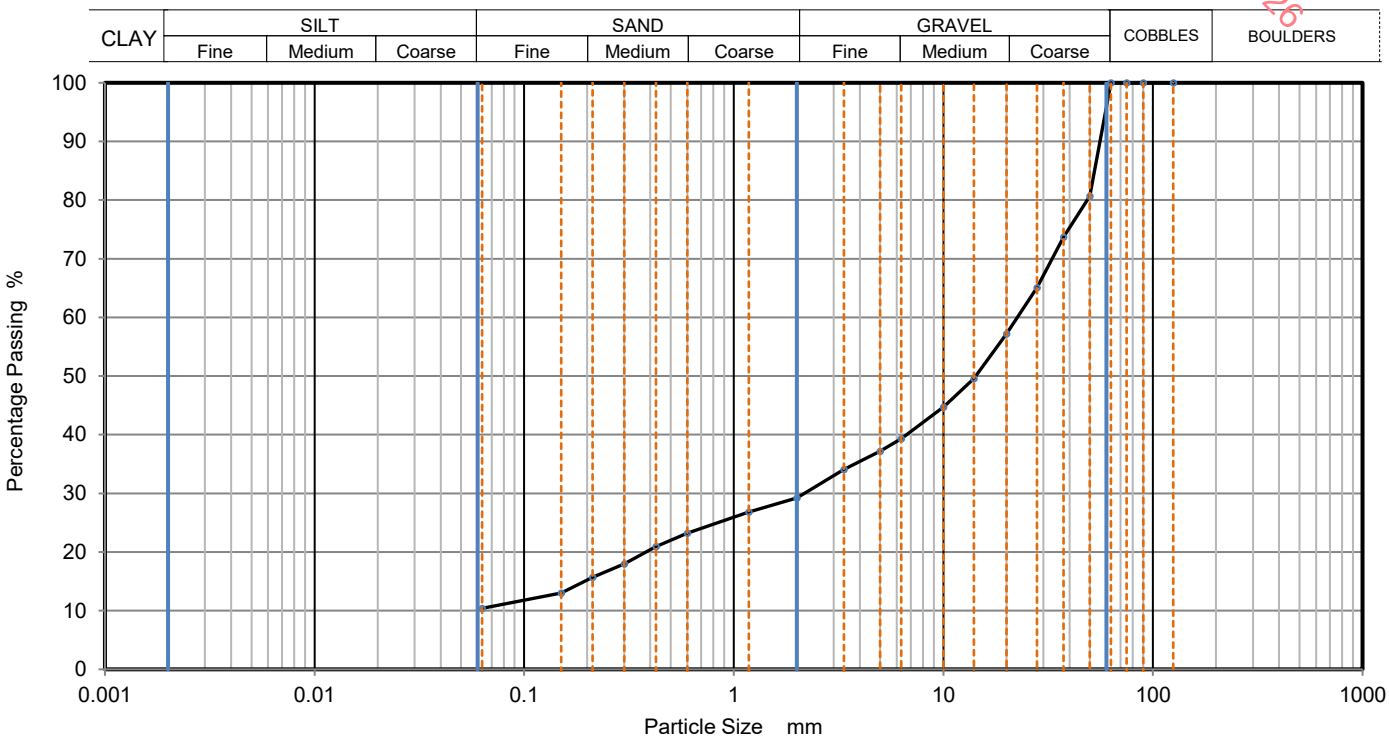
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH23
Site Name	Kingston Lands, Galway			Sample No.	4
Specimen Description	Brown slightly gravelly slightly clayey fine to coarse SAND.			Sample Depth (m) Top	0.50
				Base	
Specimen Reference	3	Specimen Depth	0.5 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus202507022256

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	81		
37.5	74		
28	65		
20	57		
14	50		
10	45		
6.3	39		
5	37		
3.35	34		
2	29		
1.18	27		
0.6	23		
0.425	21		
0.3	18		
0.212	16		
0.15	13		
0.063	10		

Dry Mass of sample, g: 2965

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	70.8
Sand	18.8
Fines <0.063mm	10.0

Grading Analysis		
D100	mm	
D60	mm	22.5
D30	mm	2.18
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

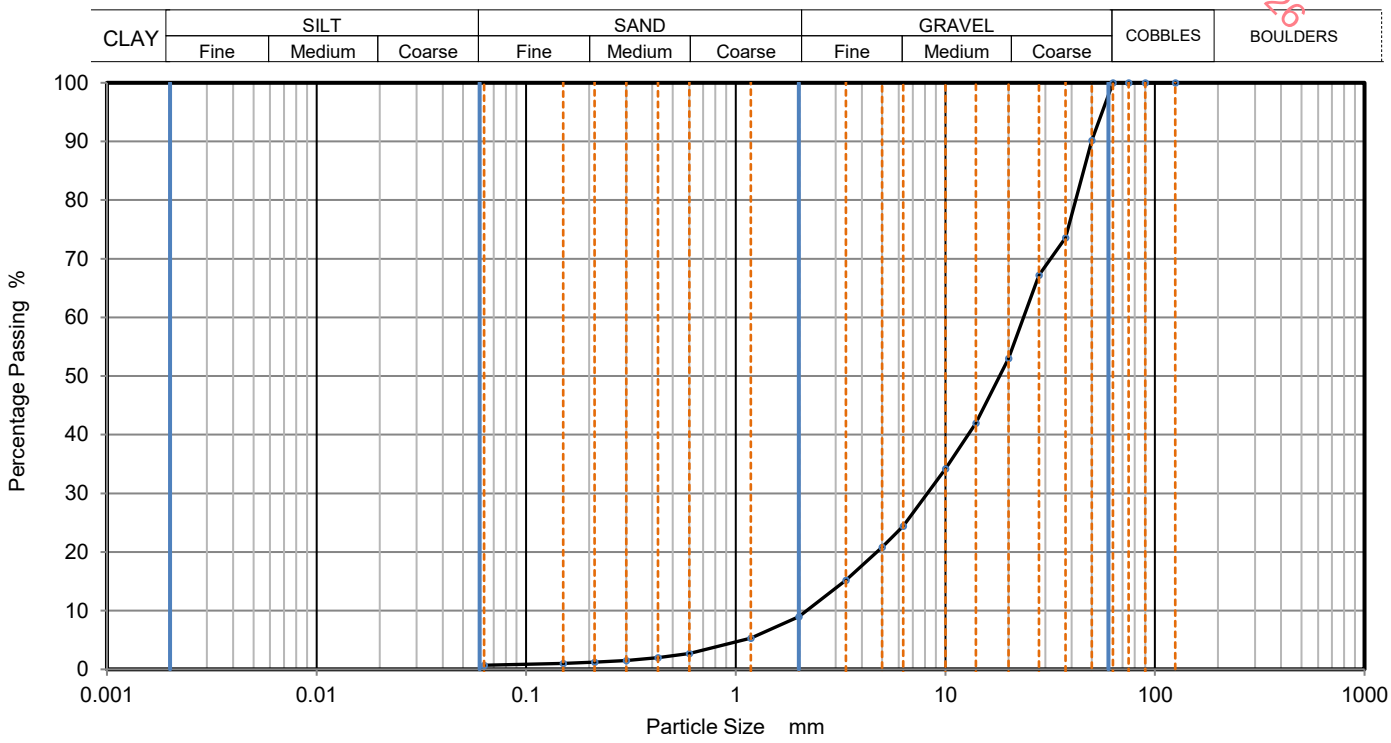
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH23
Site Name	Kingston Lands, Galway			Sample No.	6
Specimen Description	Brownish grey slightly sandy angular fine to coarse GRAVEL.			Sample Depth (m) Top	1.65
				Base	
Specimen Reference	3	Specimen Depth	1.65 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702258

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	90		
37.5	74		
28	67		
20	53		
14	42		
10	34		
6.3	24		
5	21		
3.35	15		
2	9		
1.18	5		
0.6	3		
0.425	2		
0.3	2		
0.212	1		
0.15	1		
0.063	1		

Dry Mass of sample, g: 4224

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	91.0
Sand	8.3
Fines <0.063mm	1.0

Grading Analysis		
D100	mm	
D60	mm	23.6
D30	mm	8.2
D10	mm	2.17
Uniformity Coefficient		11
Curvature Coefficient		1.3

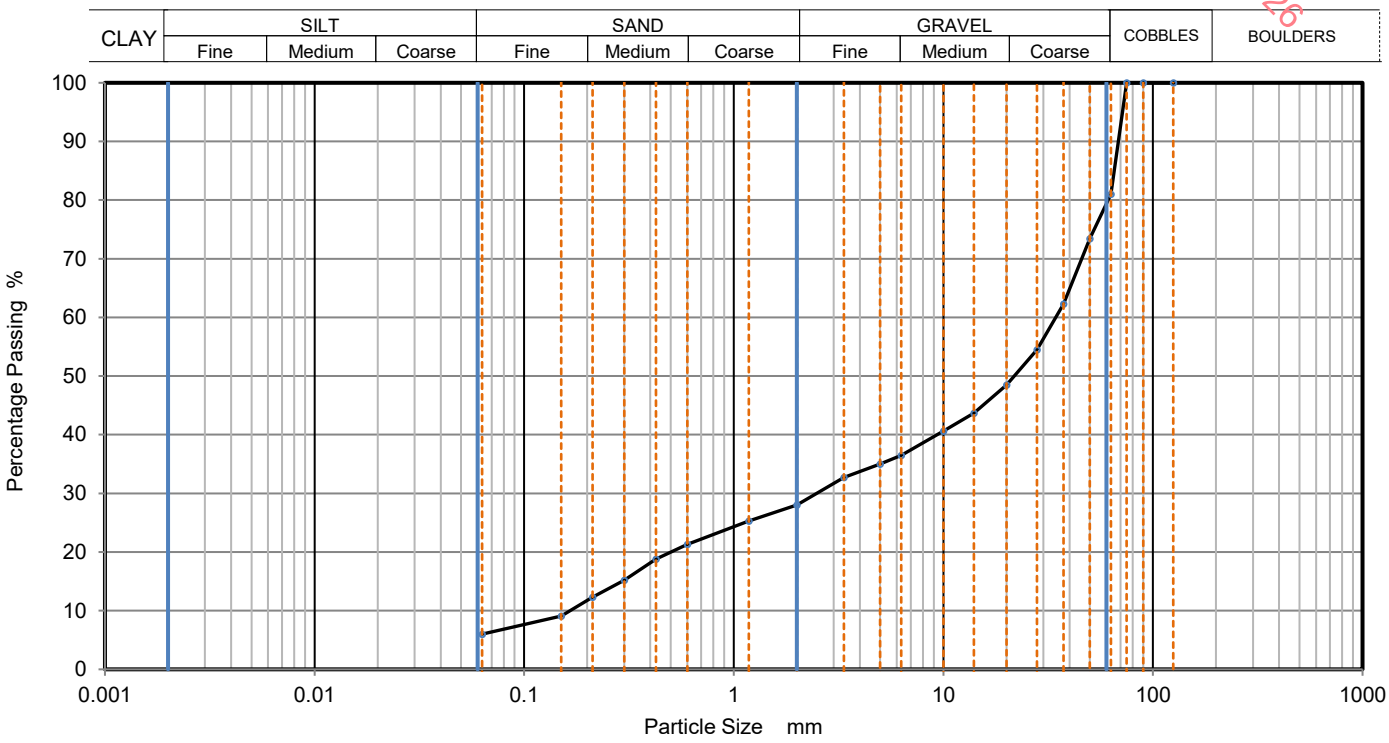
Remarks

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CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		BH25A
Site Name	Kingston Lands, Galway				Sample No.		1
Specimen Description	Greyish brown sandy gravelly clayey SILT with cobbles.				Sample Depth (m)	Top	0.50
						Base	
Specimen Reference	7	Specimen Depth	0.5	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702265

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	81		
50	73		
37.5	62		
28	55		
20	49		
14	44		
10	41		
6.3	37		
5	35		
3.35	33		
2	28		
1.18	25		
0.6	21		
0.425	19		
0.3	15		
0.212	12		
0.15	9		
0.063	6		

Dry Mass of sample, g	3289

Sample Proportions	% dry mass
Cobbles	19.0
Gravel	53.0
Sand	22.0
Fines <0.063mm	6.0

Grading Analysis		
D100	mm	
D60	mm	34.4
D30	mm	2.48
D10	mm	0.166
Uniformity Coefficient		210
Curvature Coefficient		1.1

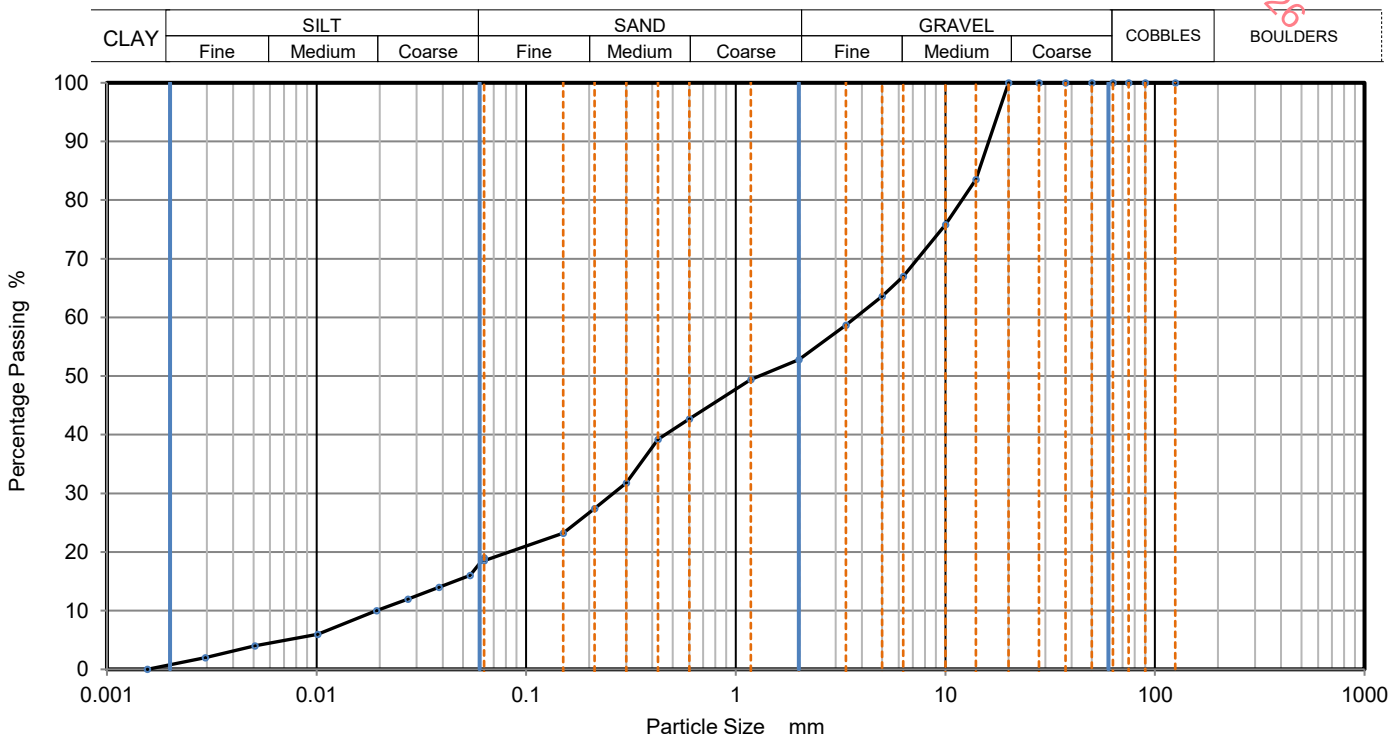
Remarks

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Stephen Watson

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		BH25A
Site Name	Kingston Lands, Galway				Sample No.		2
Specimen Description	Yellowish brown sandy gravelly silty CLAY.				Sample Depth (m)	Top	1.00
						Base	
Specimen Reference	3	Specimen Depth	1	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702266

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.06300	19
90	100	0.05390	16
75	100	0.03832	14
63	100	0.02724	12
50	100	0.01936	10
37.5	100	0.01010	6
28	100	0.00508	4
20	100	0.00295	2
14	84	0.00156	0
10	76		
6.3	67		
5	64		
3.35	59		
2	53		
1.18	49		
0.6	43	Particle density	(assumed)
0.425	39	2.65	Mg/m3
0.3	32		
0.212	27		
0.15	23		
0.063	19		

Dry Mass of sample, g: 348

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	47.2
Sand	34.3
Silt	17.7
Clay	0.8

Grading Analysis		
D100	mm	
D60	mm	3.72
D30	mm	0.26
D10	mm	0.0185
Uniformity Coefficient		200
Curvature Coefficient		0.98

Remarks

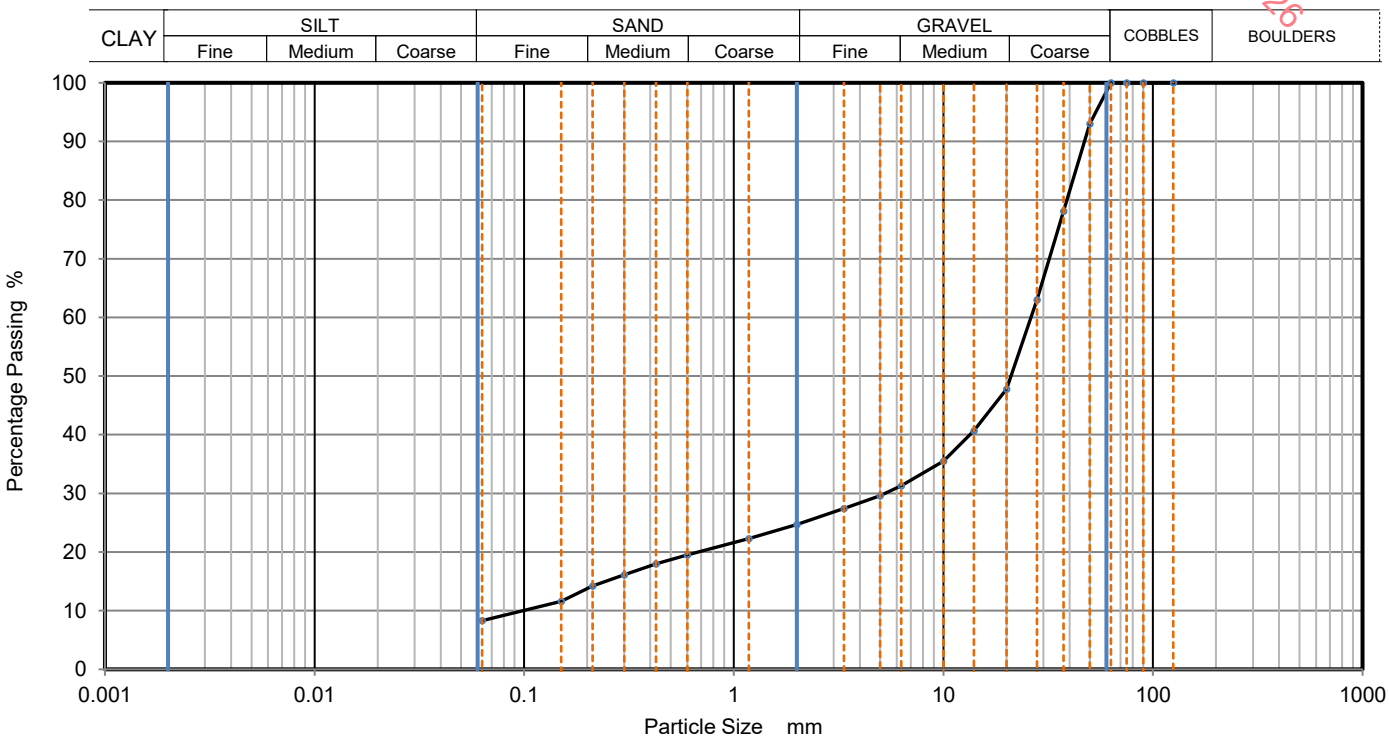
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	BH26
Site Name	Kingston Lands, Galway			Sample No.	6
Specimen Description	Brown slightly sandy subangular fine to coarse GRAVEL.			Sample Depth (m) Top	1.20
				Base	
Specimen Reference	3	Specimen Depth	1.2 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702271

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	93		
37.5	78		
28	63		
20	48		
14	41		
10	36		
6.3	31		
5	30		
3.35	27		
2	25		
1.18	22		
0.6	20		
0.425	18		
0.3	16		
0.212	14		
0.15	12		
0.063	8		

Dry Mass of sample, g: 4231

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	75.3
Sand	16.4
Fines <0.063mm	8.0

Grading Analysis		
D100	mm	
D60	mm	26.2
D30	mm	5.26
D10	mm	0.0994
Uniformity Coefficient		260
Curvature Coefficient		11

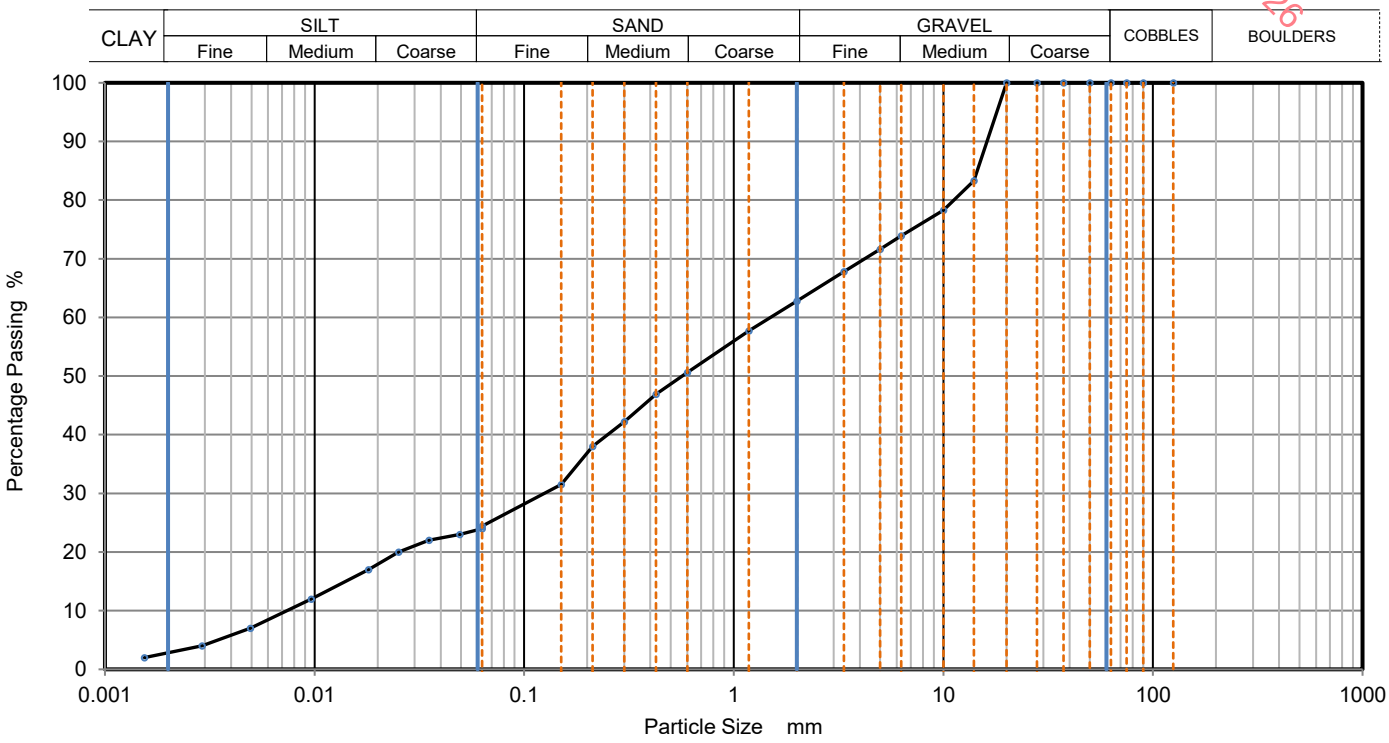
Remarks

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Stephen Watson

CAUSEWAY GEOTECH	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**24-0211**
				Borehole/Pit No.	SL01
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Dark greyish brown sandy slightly gravell silty CLAY.			Sample Depth (m) Top	0.85
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	0.85 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702273

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.06300	24
90	100	0.04933	23
75	100	0.03510	22
63	100	0.02514	20
50	100	0.01810	17
37.5	100	0.00963	12
28	100	0.00495	7
20	100	0.00290	4
14	83	0.00154	2
10	78		
6.3	74		
5	72		
3.35	68		
2	63		
1.18	58		
0.6	51	Particle density	(assumed)
0.425	47	2.65	Mg/m3
0.3	42		
0.212	38		
0.15	32		
0.063	24		

Dry Mass of sample, g: 395

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	37.2
Sand	38.4
Silt	21.5
Clay	2.9

Grading Analysis		
D100	mm	
D60	mm	1.5
D30	mm	0.125
D10	mm	0.00722
Uniformity Coefficient		210
Curvature Coefficient		1.4

Remarks

Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

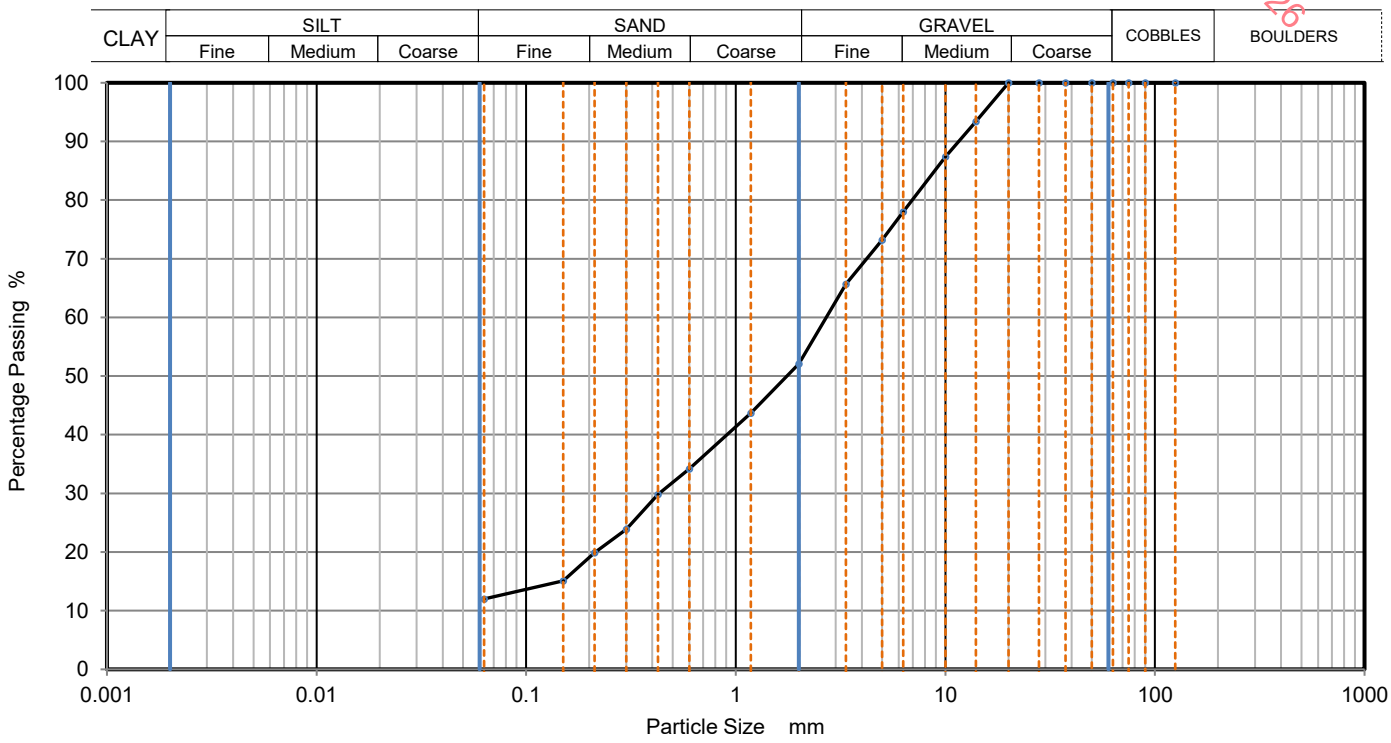
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Stephen Watson

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PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	SL02
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Dark greyish brown slightly silty gravelly fine to coarse SAND.			Sample Depth (m) Top	1.20
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1.2 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702274

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	93		
10	87		
6.3	78		
5	73		
3.35	66		
2	52		
1.18	44		
0.6	34		
0.425	30		
0.3	24		
0.212	20		
0.15	15		
0.063	12		

Dry Mass of sample, g: 496

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	47.9
Sand	40.0
Fines <0.063mm	12.0

Grading Analysis		
D100	mm	
D60	mm	2.7
D30	mm	0.43
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

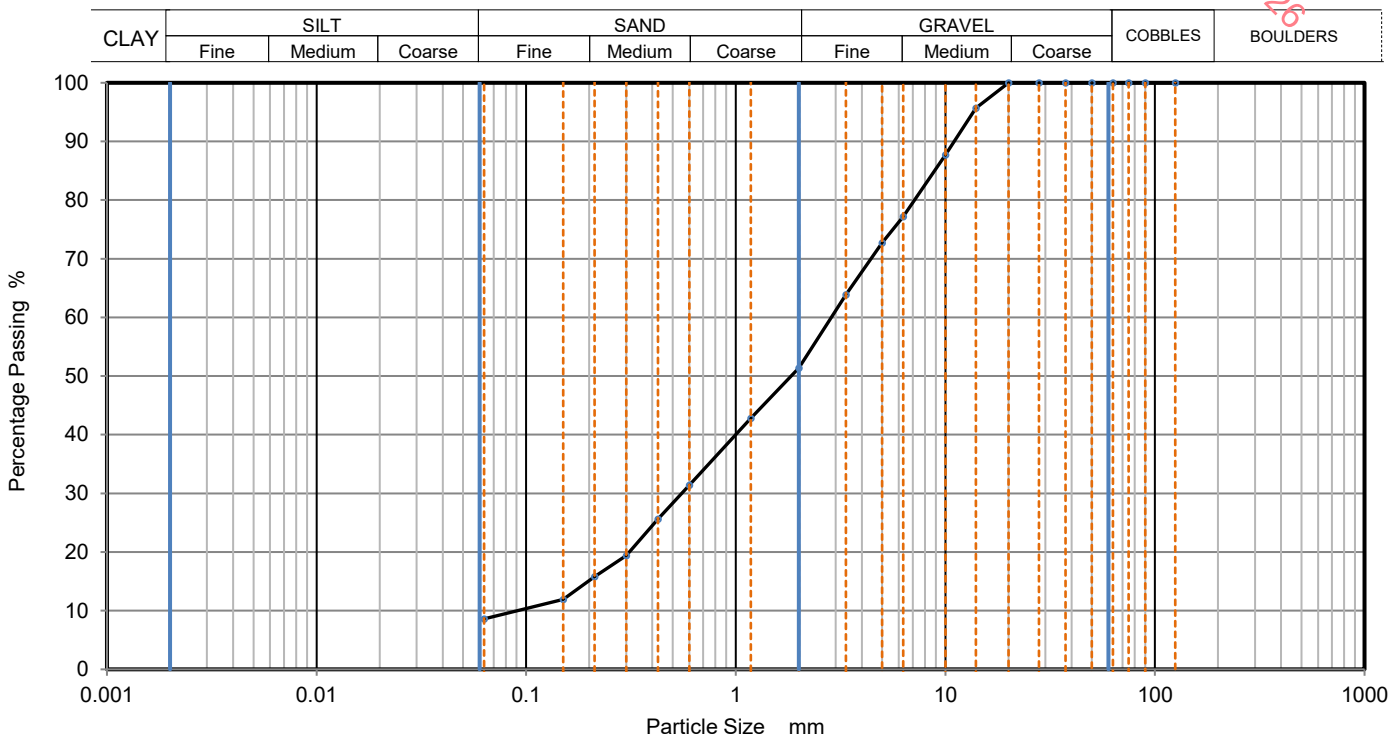
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	SL05
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Dark brown slightly gravelly clayey fine to coarse SAND.			Sample Depth (m) Top	1.40
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1.4 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702277

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	96		
10	88		
6.3	77		
5	73		
3.35	64		
2	51		
1.18	43		
0.6	31		
0.425	26		
0.3	19		
0.212	16		
0.15	12		
0.063	9		

Dry Mass of sample, g: 354

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	48.6
Sand	42.8
Fines <0.063mm	9.0

Grading Analysis		
D100	mm	
D60	mm	2.85
D30	mm	0.553
D10	mm	0.0913
Uniformity Coefficient		31
Curvature Coefficient		1.2

Remarks

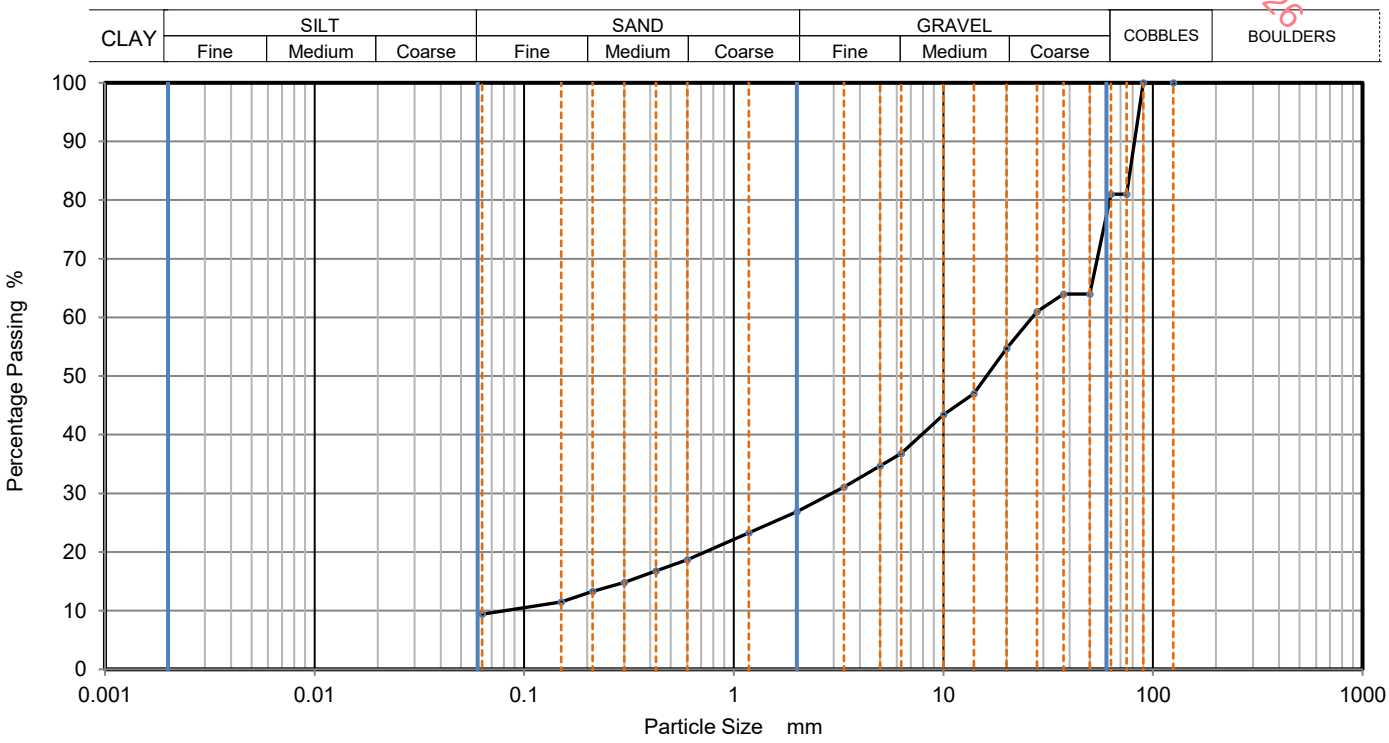
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	SL07
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Greyish brown slightly gravelly slightly silty fine to coarse SAND with cobbles.			Sample Depth (m) Top	1.00
				Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702280

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	81		
63	81		
50	64		
37.5	64		
28	61		
20	55		
14	47		
10	43		
6.3	37		
5	35		
3.35	31		
2	27		
1.18	23		
0.6	19		
0.425	17		
0.3	15		
0.212	13		
0.15	12		
0.063	9		

Dry Mass of sample, g	3454

Sample Proportions	% dry mass
Cobbles	19.0
Gravel	54.1
Sand	17.5
Fines <0.063mm	9.0

Grading Analysis		
D100	mm	
D60	mm	26.6
D30	mm	2.93
D10	mm	0.0801
Uniformity Coefficient		330
Curvature Coefficient		4

Remarks

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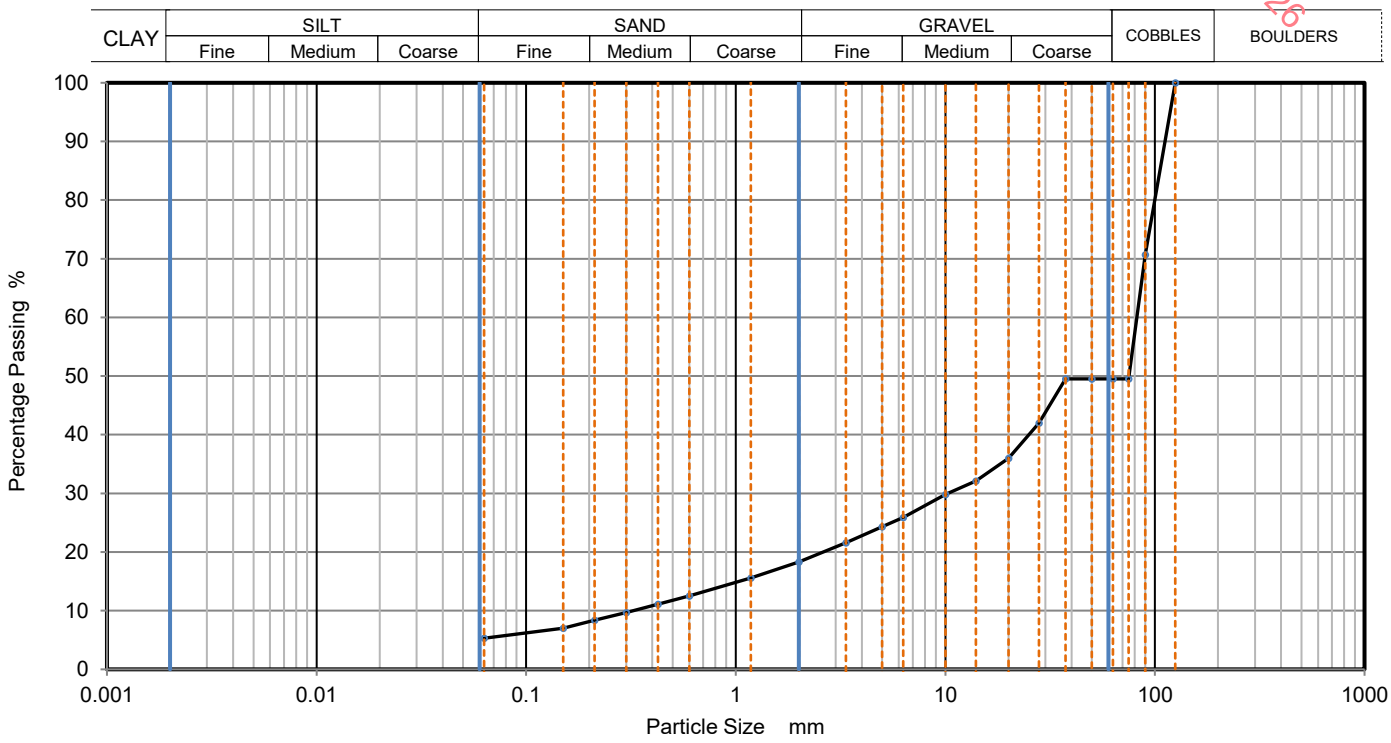
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Stephen Watson

UKAS TESTING

10122

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		SL08
Site Name	Kingston Lands, Galway				Sample No.		2
Specimen Description	Greyish brown slightly gravelly slightly silty fine to coarse SAND with cobbles.				Sample Depth (m)	Top	2.00
						Base	
Specimen Reference	3	Specimen Depth	2	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702283

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	71		
75	50		
63	50		
50	50		
37.5	50		
28	42		
20	36		
14	32		
10	30		
6.3	26		
5	24		
3.35	22		
2	18		
1.18	16		
0.6	13		
0.425	11		
0.3	10		
0.212	8		
0.15	7		
0.063	5		

Dry Mass of sample, g	4870

Sample Proportions	% dry mass
Cobbles	50.5
Gravel	31.3
Sand	13.0
Fines <0.063mm	5.0

Grading Analysis		
D100	mm	125
D60	mm	82.1
D30	mm	10.3
D10	mm	0.326
Uniformity Coefficient		250
Curvature Coefficient		4

Remarks

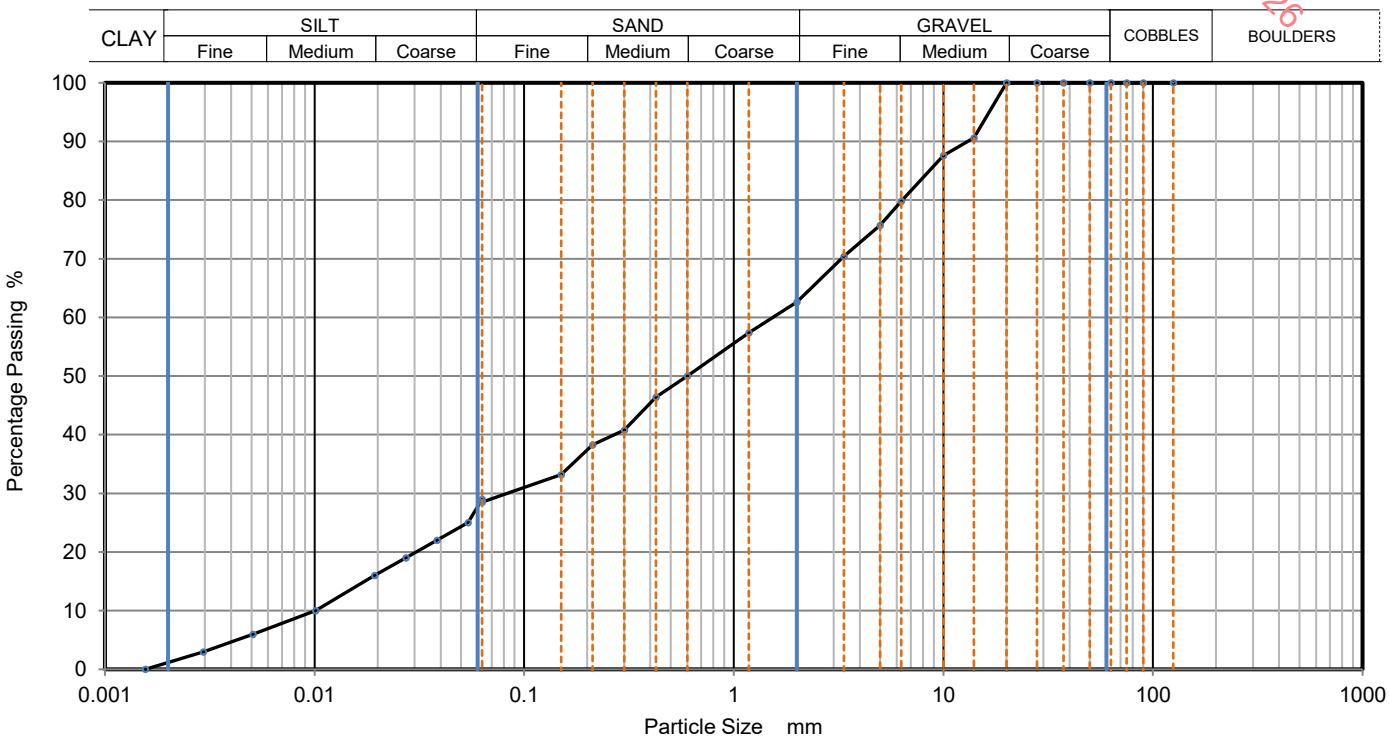
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	SL09
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Greyish brown sandy slightly gravelly silty CLAY.			Sample Depth (m) Top	1.00
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702284

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.06300	29
90	100	0.05390	25
75	100	0.03832	22
63	100	0.02724	19
50	100	0.01936	16
37.5	100	0.01010	10
28	100	0.00508	6
20	100	0.00295	3
14	91	0.00156	0
10	88		
6.3	80		
5	76		
3.35	70		
2	63		
1.18	57		
0.6	50	Particle density	(assumed)
0.425	46	2.65	Mg/m3
0.3	41		
0.212	38		
0.15	33		
0.063	29		

Dry Mass of sample, g: 318

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	37.4
Sand	34.1
Silt	27.3
Clay	1.2

Grading Analysis		
D100	mm	
D60	mm	1.53
D30	mm	0.0825
D10	mm	0.0106
Uniformity Coefficient		140
Curvature Coefficient		0.42

Remarks

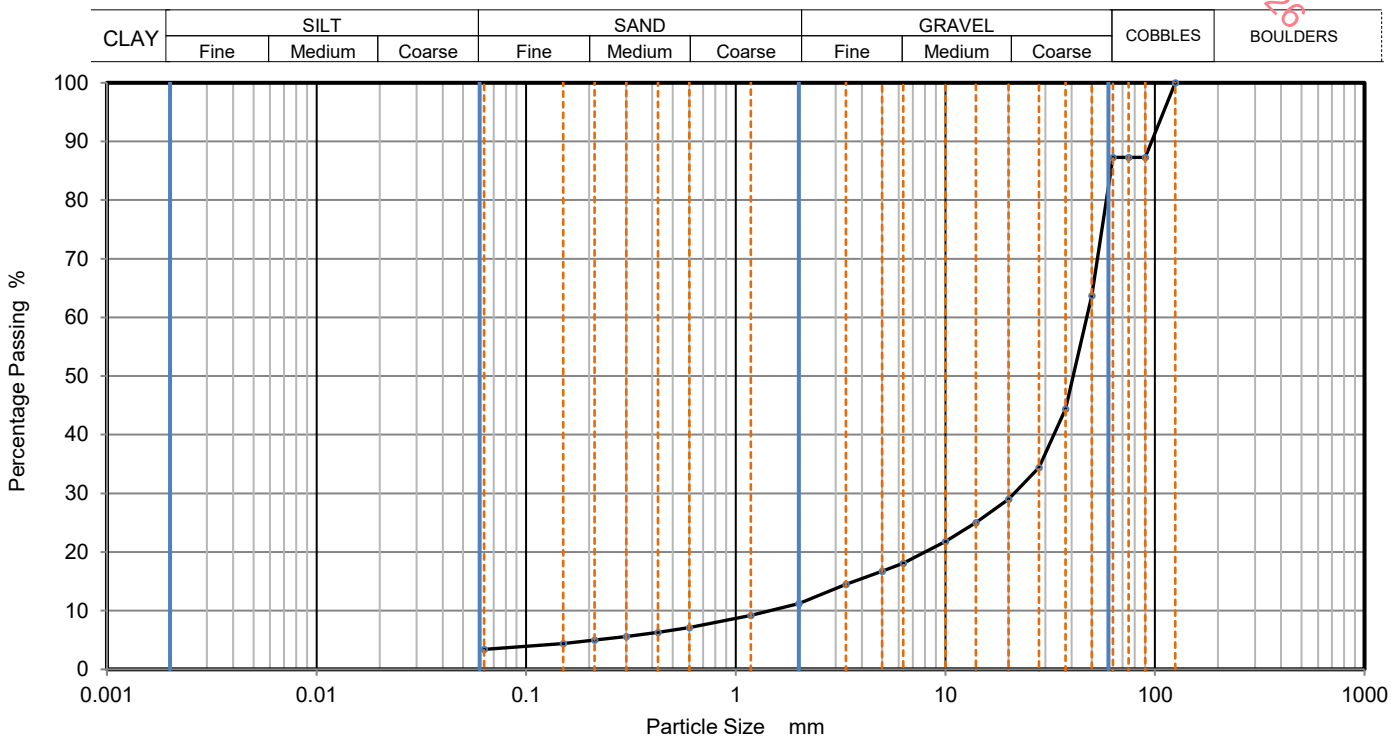
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	SL11
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Dark greyish brown slightly sandy angular fine to coarse GRAVEL with cobbles.			Sample Depth (m) Top	1.00
				Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702288

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	87		
75	87		
63	87		
50	64		
37.5	44		
28	34		
20	29		
14	25		
10	22		
6.3	18		
5	17		
3.35	15		
2	11		
1.18	9		
0.6	7		
0.425	6		
0.3	6		
0.212	5		
0.15	4		
0.063	3		

Dry Mass of sample, g	6847

Sample Proportions	% dry mass
Cobbles	12.7
Gravel	76.1
Sand	7.8
Fines <0.063mm	3.0

Grading Analysis		
D100	mm	125
D60	mm	47.3
D30	mm	21.3
D10	mm	1.47
Uniformity Coefficient		32
Curvature Coefficient		6.6

Remarks

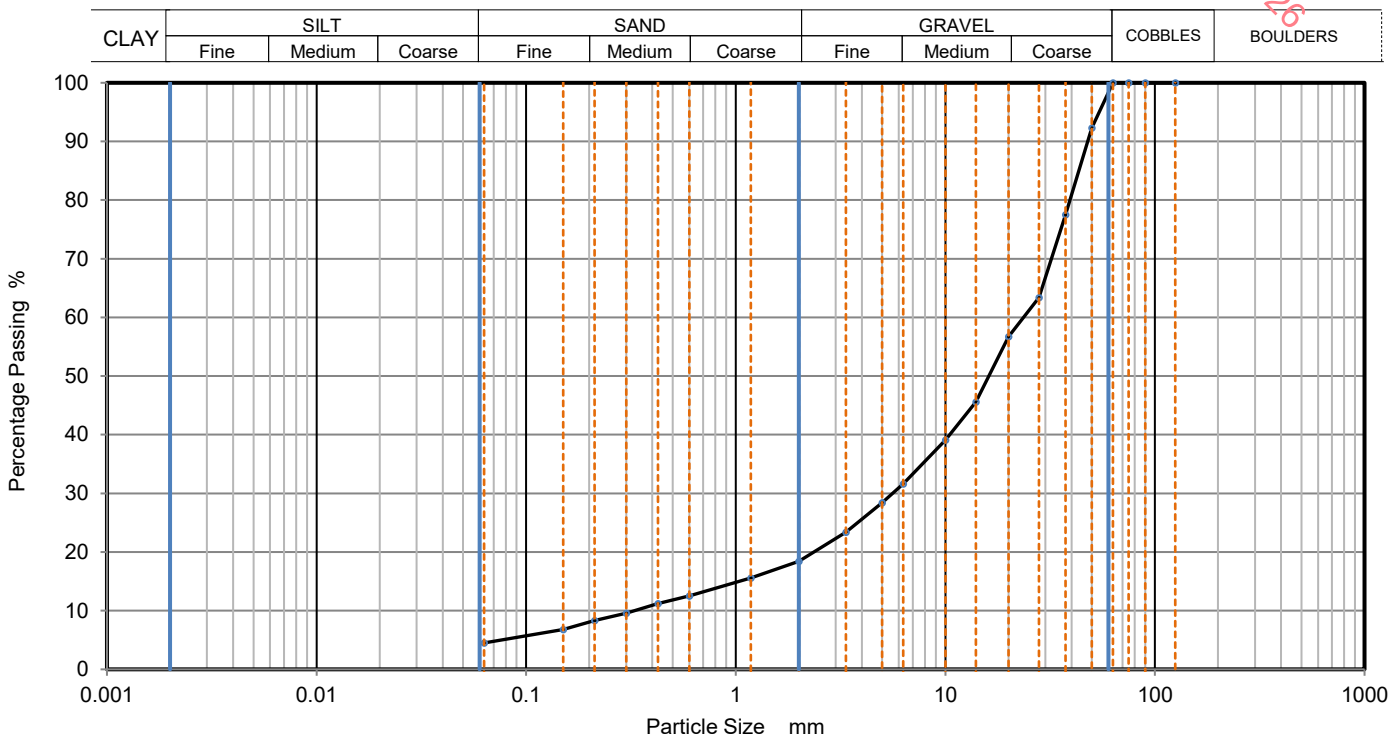
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	SL14
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Greyish brown gravelly slightly silty fine to coarse SAND.			Sample Depth (m) Top	1.00
				Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702294

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	92		
37.5	78		
28	63		
20	57		
14	46		
10	39		
6.3	32		
5	28		
3.35	23		
2	18		
1.18	16		
0.6	13		
0.425	11		
0.3	10		
0.212	8		
0.15	7		
0.063	5		

Dry Mass of sample, g: 3630

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	81.6
Sand	13.9
Fines <0.063mm	4.0

Grading Analysis		
D100	mm	
D60	mm	23.6
D30	mm	5.61
D10	mm	0.326
Uniformity Coefficient		72
Curvature Coefficient		4.1

Remarks

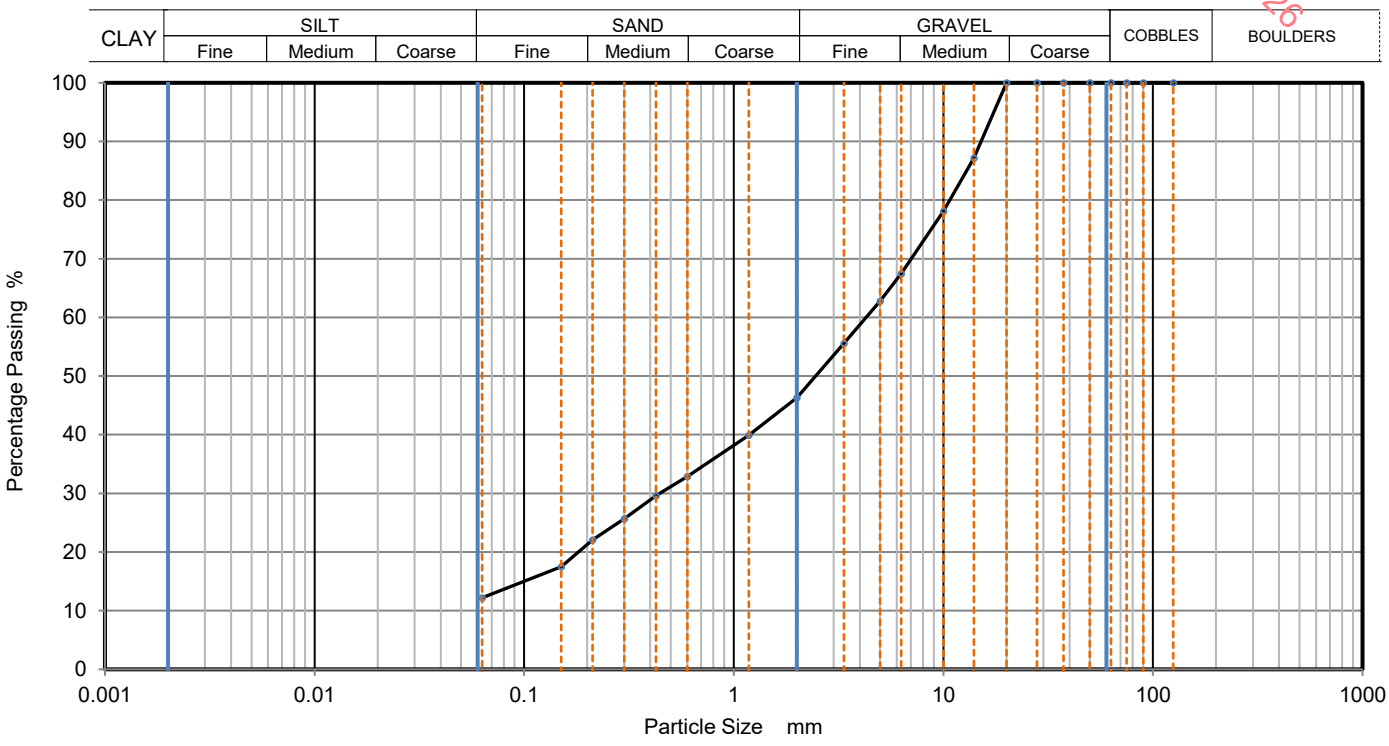
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	SL15
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Brownish black slightly gravelly clayey fine to coarse SAND.			Sample Depth (m) Top	1.00
				Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702296

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	87		
10	78		
6.3	68		
5	63		
3.35	56		
2	46		
1.18	40		
0.6	33		
0.425	30		
0.3	26		
0.212	22		
0.15	18		
0.063	12		

Dry Mass of sample, g	454

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	53.7
Sand	34.0
Fines <0.063mm	12.0

Grading Analysis		
D100	mm	
D60	mm	4.28
D30	mm	0.441
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

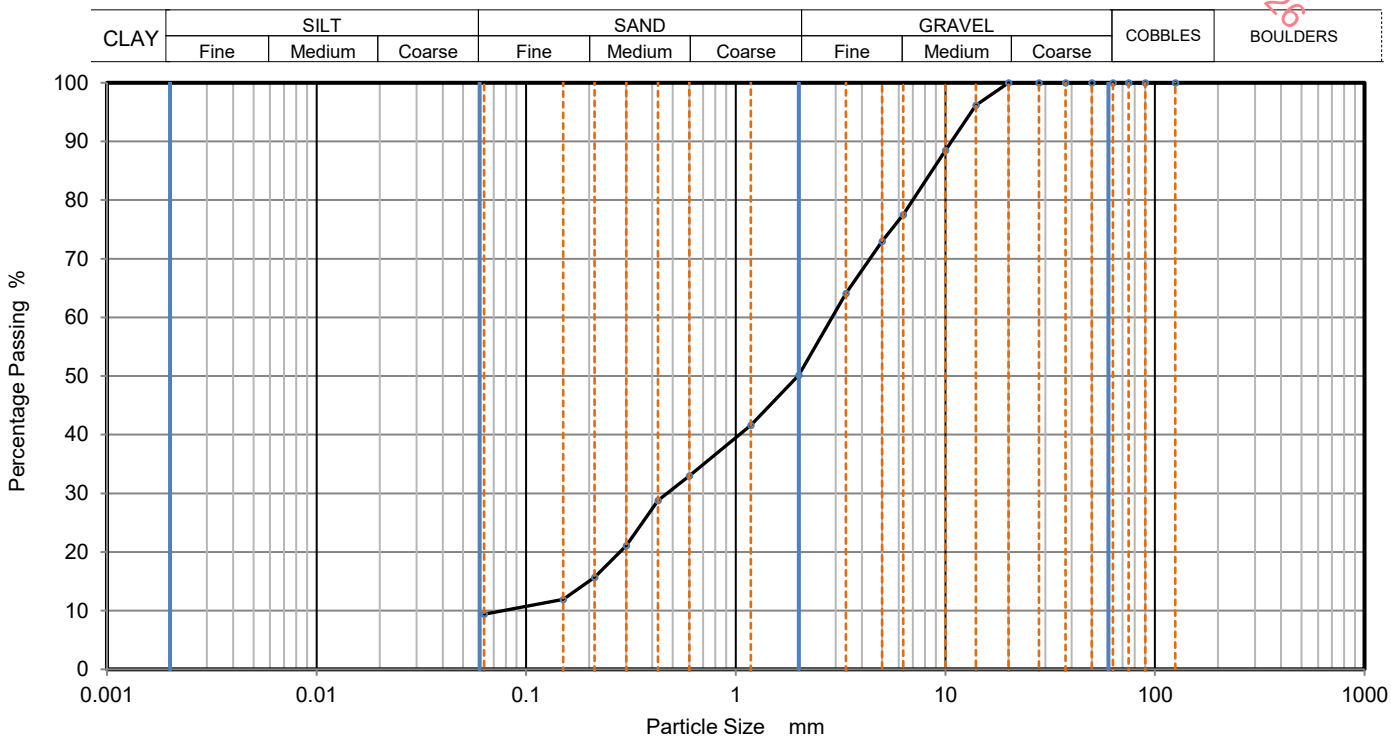
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP01
Site Name	Kingston Lands, Galway			Sample No.	6
Specimen Description	Light greyish brown slightly gravelly slightly silty fine to coarse SAND.			Sample Depth (m) Top	2.00
				Base	
Specimen Reference	3	Specimen Depth	2 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702301

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	96		
10	89		
6.3	78		
5	73		
3.35	64		
2	50		
1.18	42		
0.6	33		
0.425	29		
0.3	21		
0.212	16		
0.15	12		
0.063	9		

Dry Mass of sample, g: 411

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	49.8
Sand	40.8
Fines <0.063mm	9.0

Grading Analysis		
D100	mm	
D60	mm	2.88
D30	mm	0.469
D10	mm	0.0782
Uniformity Coefficient		37
Curvature Coefficient		0.98

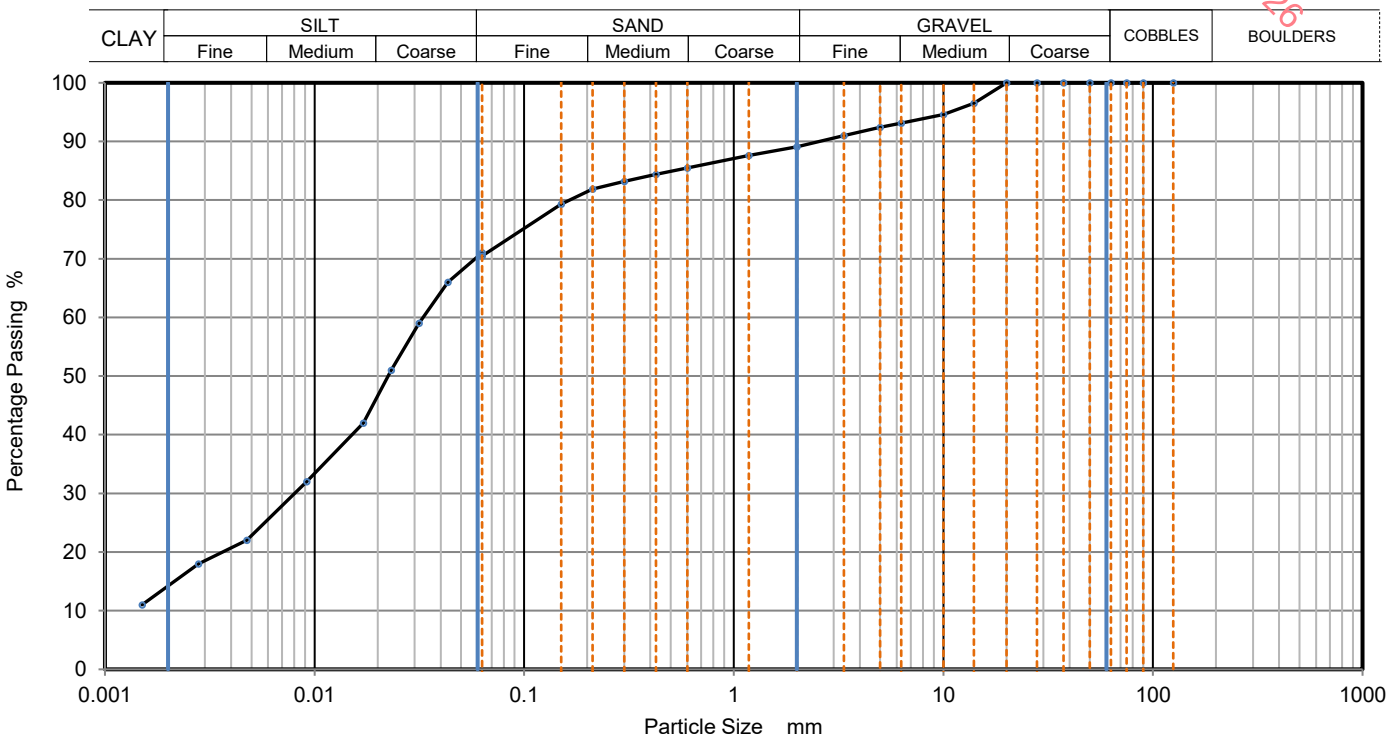
Remarks

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Stephen Watson

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		TP03
Site Name	Kingston Lands, Galway				Sample No.		5
Specimen Description	Light greyish brown slightly gravelly slightly clayey fine to coarse SAND.				Sample Depth (m)	Top	1.00
						Base	
Specimen Reference	7	Specimen Depth	1	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702307

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.06300	71
90	100	0.04320	66
75	100	0.03156	59
63	100	0.02318	51
50	100	0.01710	42
37.5	100	0.00918	32
28	100	0.00476	22
20	100	0.00279	18
14	97	0.00150	11
10	95		
6.3	93		
5	92		
3.35	91		
2	89		
1.18	88		
0.6	86	Particle density	(assumed)
0.425	84	2.65	Mg/m3
0.3	83		
0.212	82		
0.15	79		
0.063	71		

Dry Mass of sample, g	226

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	10.9
Sand	18.5
Silt	56.4
Clay	14.2

Grading Analysis		
D100	mm	
D60	mm	0.0327
D30	mm	0.00798
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

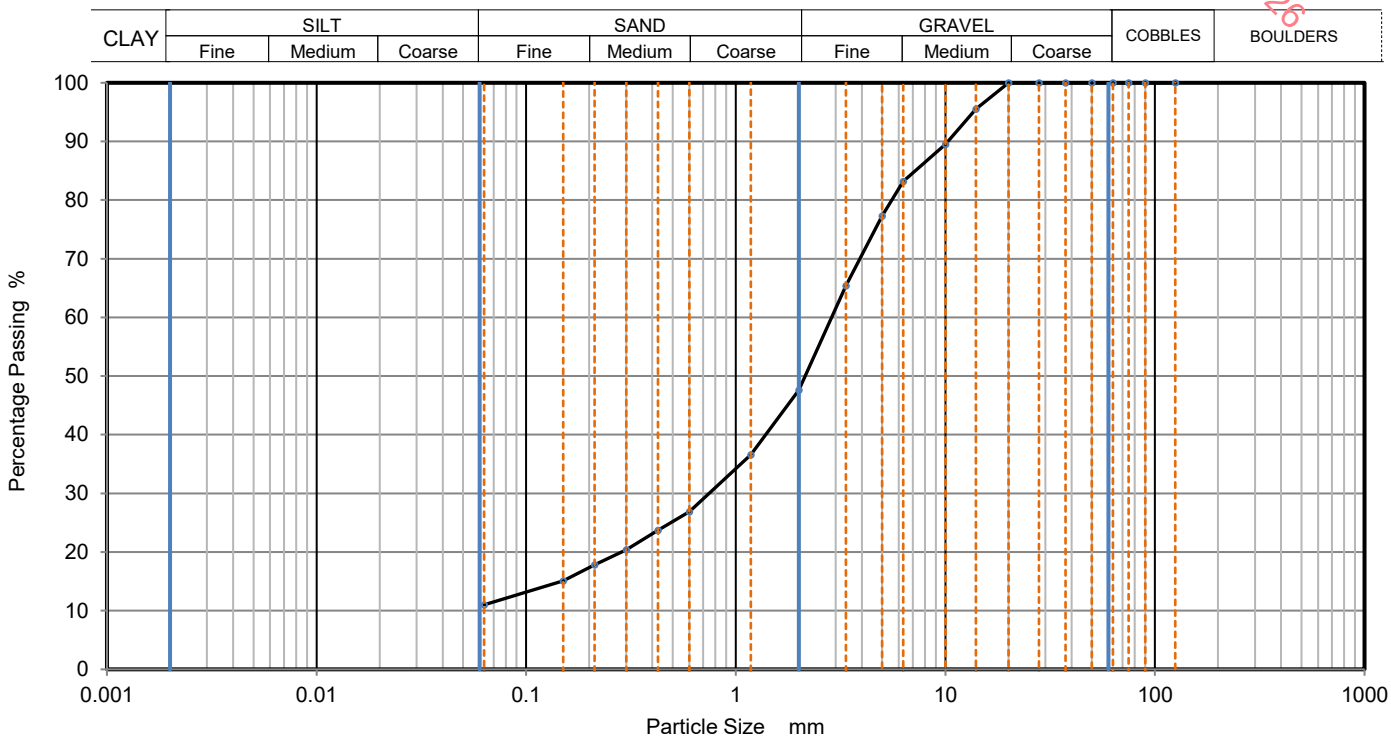
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Stephen Watson

UKAS TESTING

10122

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		TP04
Site Name	Kingston Lands, Galway				Sample No.		4
Specimen Description	Light grey slightly gravelly slightly silty fine to coarse SAND.				Sample Depth (m)	Top	2.00
						Base	
Specimen Reference	3	Specimen Depth	2	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702313

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	96		
10	90		
6.3	83		
5	77		
3.35	65		
2	48		
1.18	37		
0.6	27		
0.425	24		
0.3	20		
0.212	18		
0.15	15		
0.063	11		

Dry Mass of sample, g	220

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	52.4
Sand	36.6
Fines <0.063mm	11.0

Grading Analysis		
D100	mm	
D60	mm	2.87
D30	mm	0.744
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

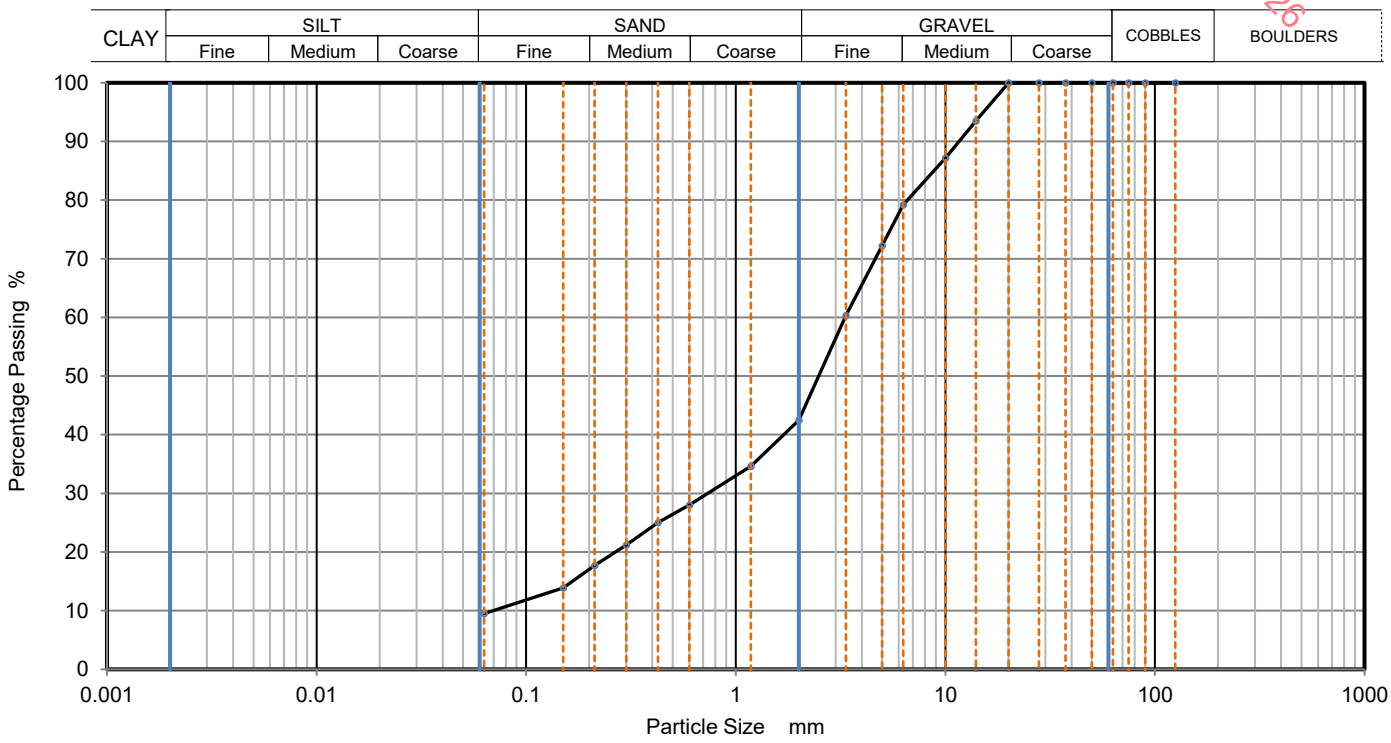
Remarks

Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

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Stephen Watson

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		TP05
Site Name	Kingston Lands, Galway				Sample No.		5
Specimen Description	Grey slightly gravelly clayey fine to coarse SAND.				Sample Depth (m)	Top	1.00
						Base	
Specimen Reference	3	Specimen Depth	1	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702315

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	94		
10	87		
6.3	79		
5	72		
3.35	60		
2	43		
1.18	35		
0.6	28		
0.425	25		
0.3	21		
0.212	18		
0.15	14		
0.063	10		

Dry Mass of sample, g	209

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	57.5
Sand	32.9
Fines <0.063mm	10.0

Grading Analysis		
D100	mm	
D60	mm	3.32
D30	mm	0.738
D10	mm	0.0691
Uniformity Coefficient		48
Curvature Coefficient		2.4

Remarks

Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

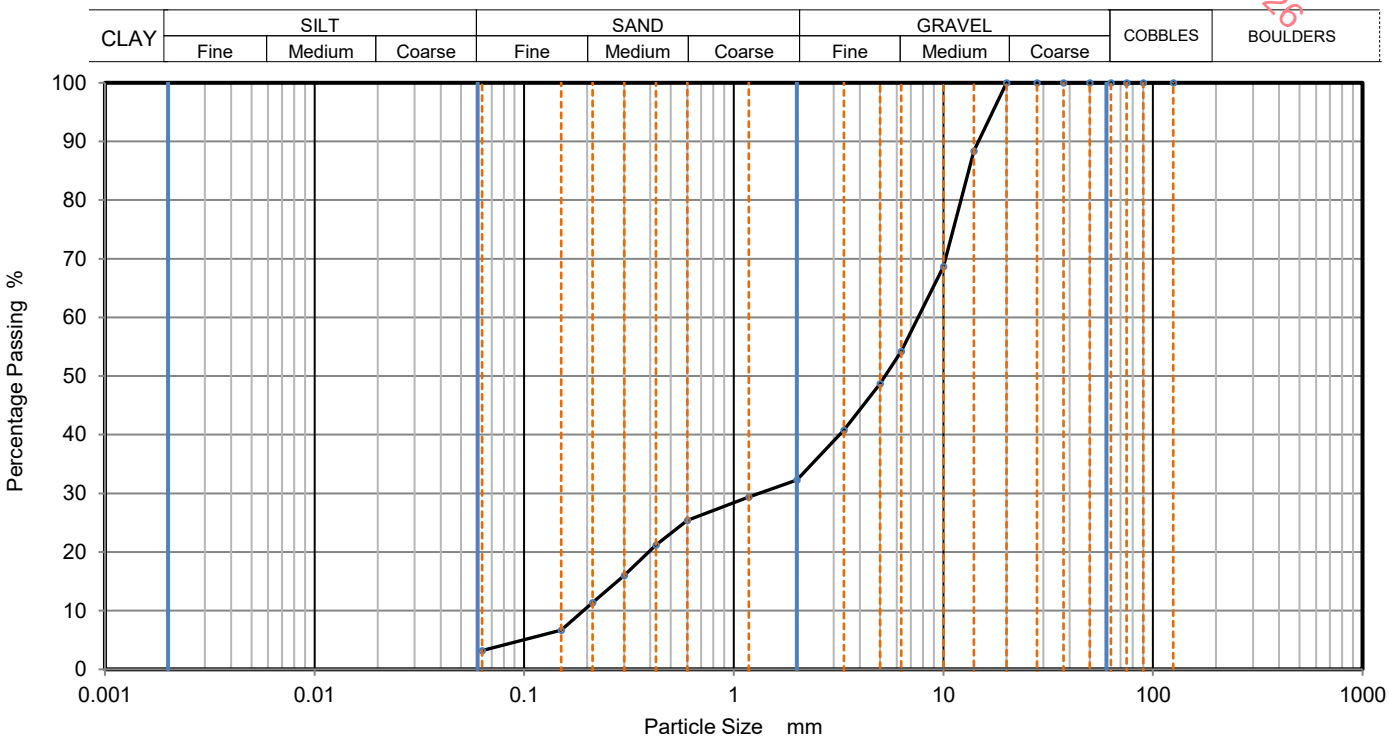
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Stephen Watson

UKAS TESTING

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP06
Site Name	Kingston Lands, Galway			Sample No.	4
Specimen Description	Grey slightly gravelly clayey fine to coarse SAND.			Sample Depth (m) Top	0.45
				Base	
Specimen Reference	3	Specimen Depth	0.45 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702319

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	88		
10	69		
6.3	54		
5	49		
3.35	41		
2	32		
1.18	29		
0.6	25		
0.425	21		
0.3	16		
0.212	11		
0.15	7		
0.063	3		

Dry Mass of sample, g: 463

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	67.7
Sand	29.1
Fines <0.063mm	3.0

Grading Analysis		
D100	mm	
D60	mm	7.58
D30	mm	1.32
D10	mm	0.192
Uniformity Coefficient		40
Curvature Coefficient		1.2

Remarks

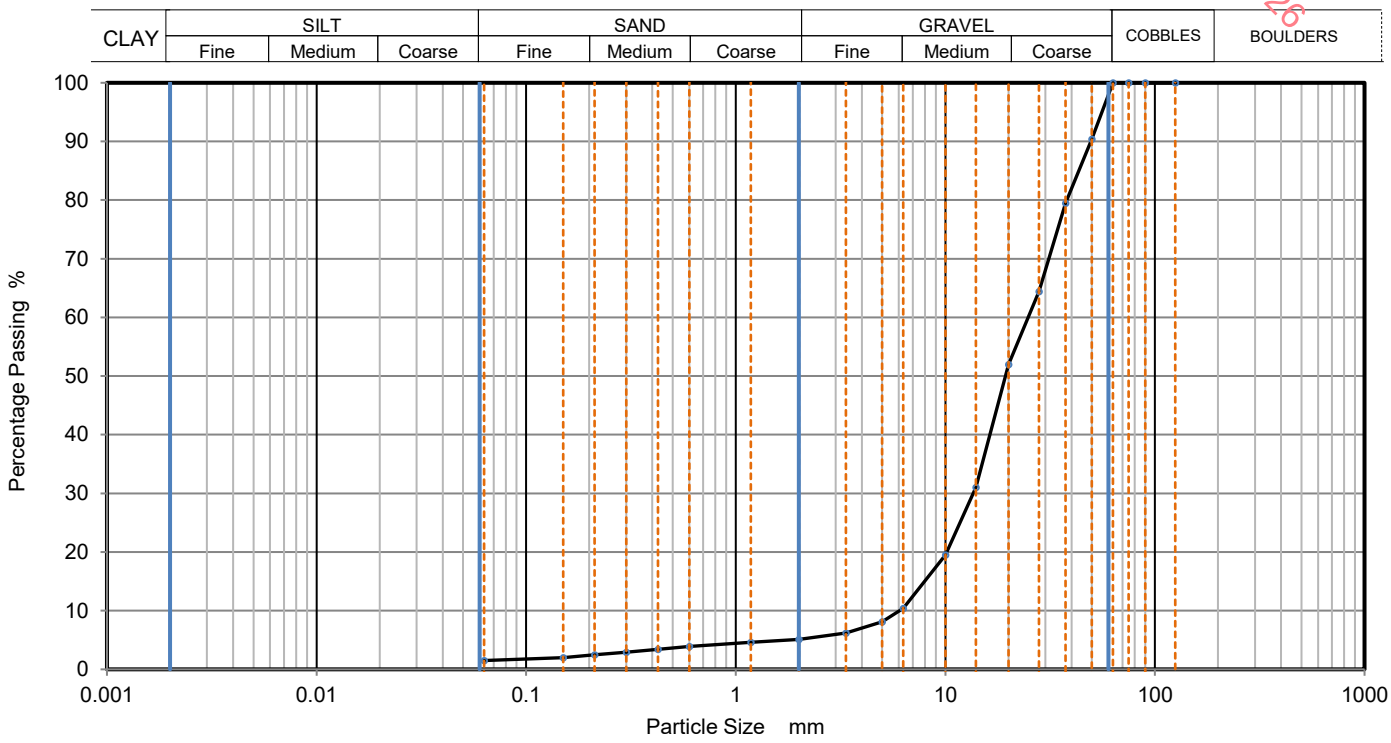
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP07
Site Name	Kingston Lands, Galway			Sample No.	10
Specimen Description	Brownish grey slightly sandy clayey subangular GRAVEL.			Sample Depth (m) Top	1.55
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1.55 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702328

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	90		
37.5	80		
28	64		
20	52		
14	31		
10	20		
6.3	10		
5	8		
3.35	6		
2	5		
1.18	5		
0.6	4		
0.425	3		
0.3	3		
0.212	3		
0.15	2		
0.063	2		

Dry Mass of sample, g: 3622

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	94.9
Sand	3.6
Fines <0.063mm	1.0

Grading Analysis		
D100	mm	
D60	mm	24.9
D30	mm	13.6
D10	mm	6.07
Uniformity Coefficient		4.1
Curvature Coefficient		1.2

Remarks

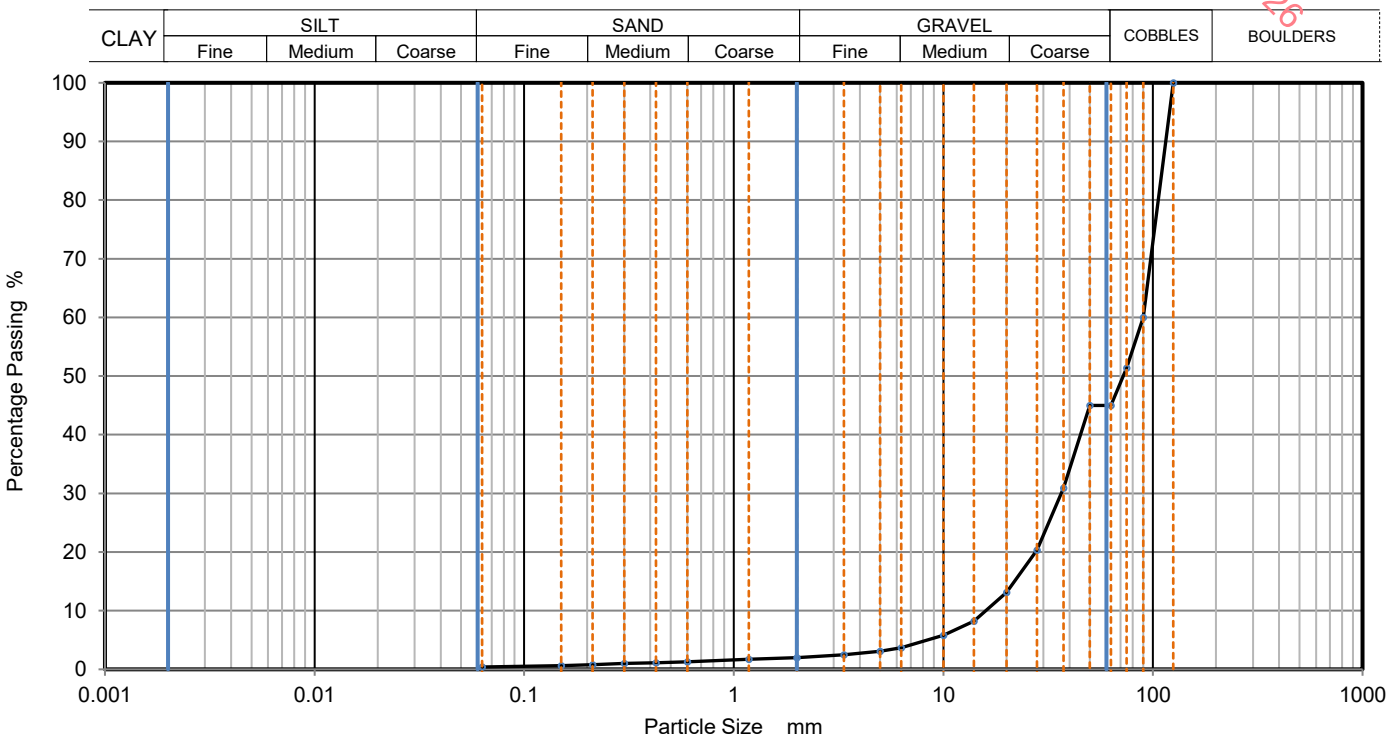
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP07
Site Name	Kingston Lands, Galway			Sample No.	12
Specimen Description	Greyish black slightly sandy slightly silty angular fine to coarse GRAVEL with cobbles.			Sample Depth (m) Top	3.00
				Base	
Specimen Reference	7	Specimen Depth	3 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702333

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	60		
75	51		
63	45		
50	45		
37.5	31		
28	20		
20	13		
14	8		
10	6		
6.3	4		
5	3		
3.35	3		
2	2		
1.18	2		
0.6	1		
0.425	1		
0.3	1		
0.212	1		
0.15	1		
0.063	0		

Dry Mass of sample, g: 8538

Sample Proportions	% dry mass
Cobbles	55.0
Gravel	43.0
Sand	1.6
Fines <0.063mm	0.0

Grading Analysis		
D100	mm	125
D60	mm	90
D30	mm	36.6
D10	mm	16
Uniformity Coefficient		5.6
Curvature Coefficient		0.93

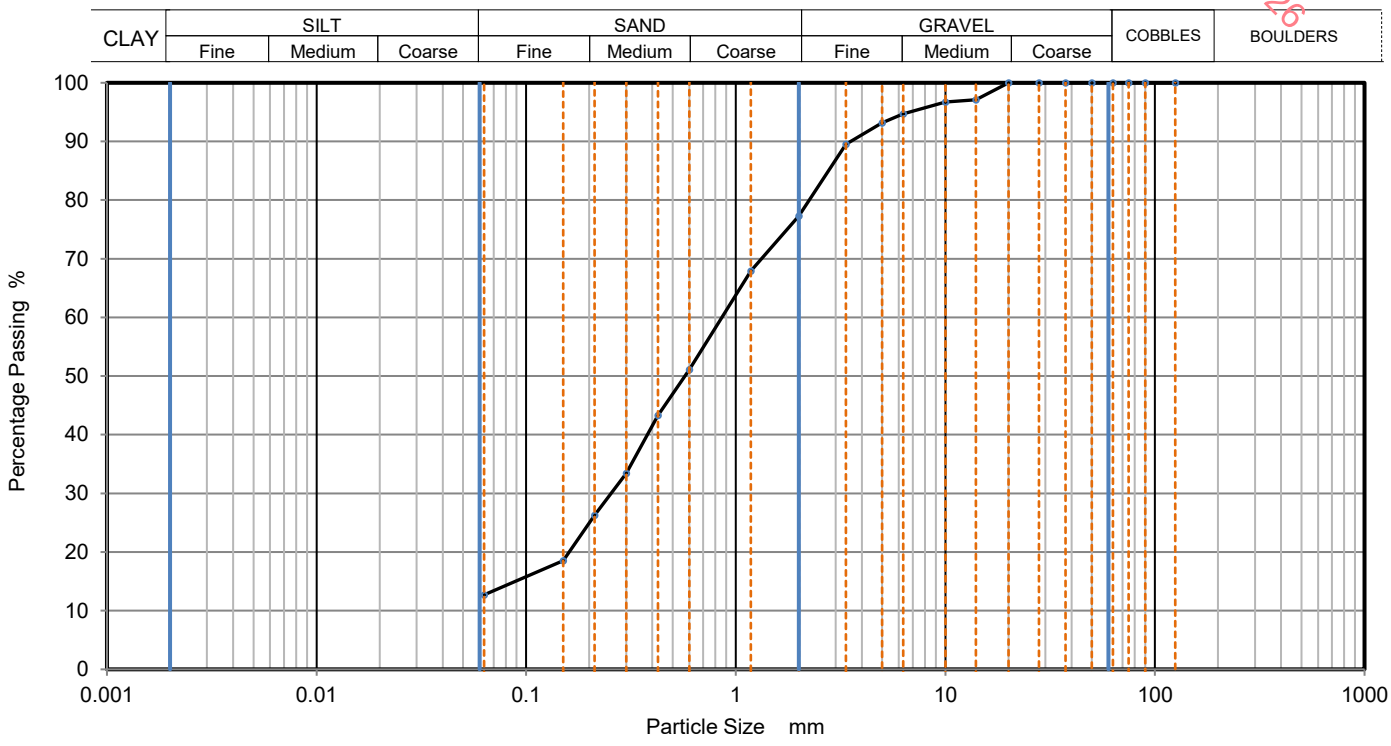
Remarks

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Stephen Watson

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		TP09
Site Name	Kingston Lands, Galway				Sample No.		3
Specimen Description	Light greyish brown slightly gravelly clayey fine to coarse SAND.				Sample Depth (m)	Top	0.50
						Base	
Specimen Reference	3	Specimen Depth	0.5	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus20250702339

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	97		
10	97		
6.3	95		
5	93		
3.35	90		
2	77		
1.18	68		
0.6	51		
0.425	43		
0.3	33		
0.212	26		
0.15	19		
0.063	13		

Dry Mass of sample, g	214

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	22.7
Sand	64.7
Fines <0.063mm	13.0

Grading Analysis		
D100	mm	
D60	mm	0.859
D30	mm	0.254
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

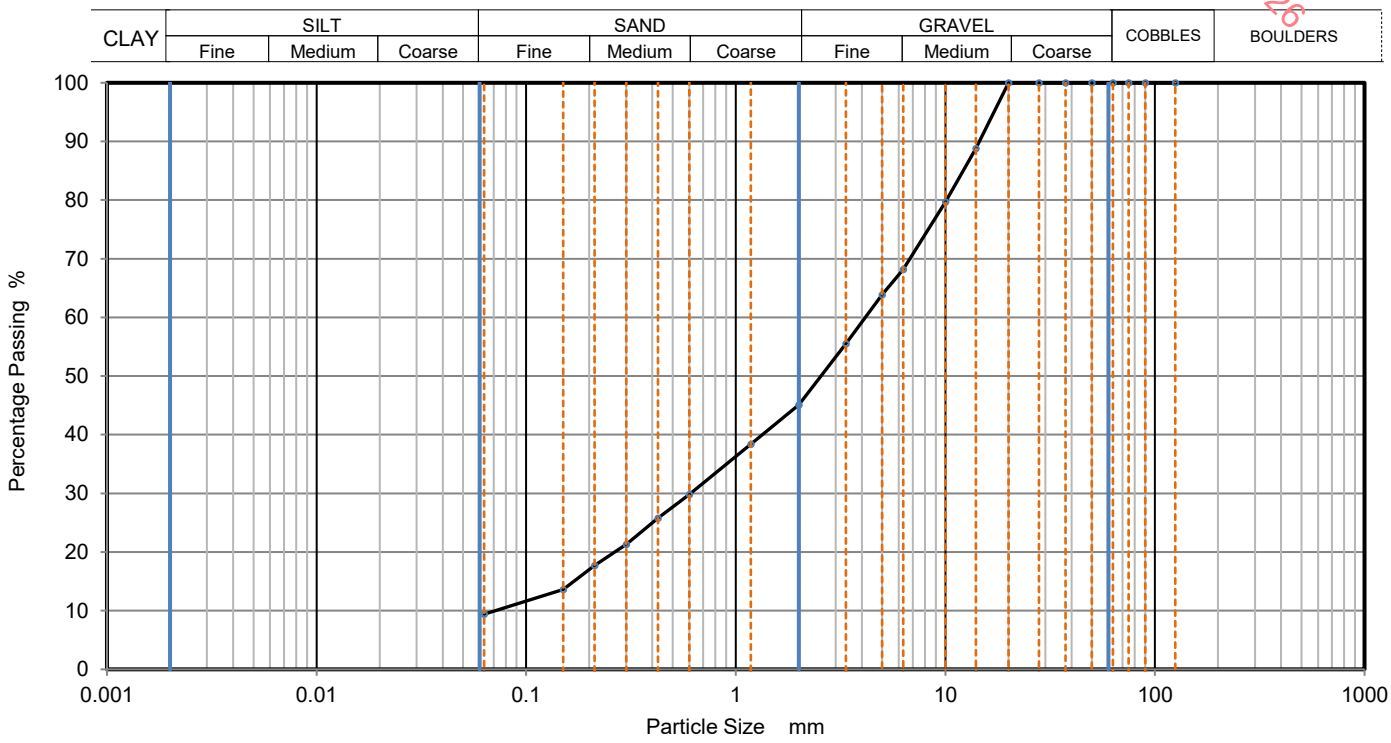
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP10
Site Name	Kingston Lands, Galway			Sample No.	5
Specimen Description	Reddish brown slightly gravelly silty fine to coarse SAND.			Sample Depth (m) Top	1.00
				Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702344

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	89		
10	80		
6.3	68		
5	64		
3.35	56		
2	45		
1.18	38		
0.6	30		
0.425	26		
0.3	21		
0.212	18		
0.15	14		
0.063	9		

Dry Mass of sample, g: 374

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	54.9
Sand	35.6
Fines <0.063mm	9.0

Grading Analysis		
D100	mm	
D60	mm	4.16
D30	mm	0.61
D10	mm	0.0708
Uniformity Coefficient		59
Curvature Coefficient		1.3

Remarks

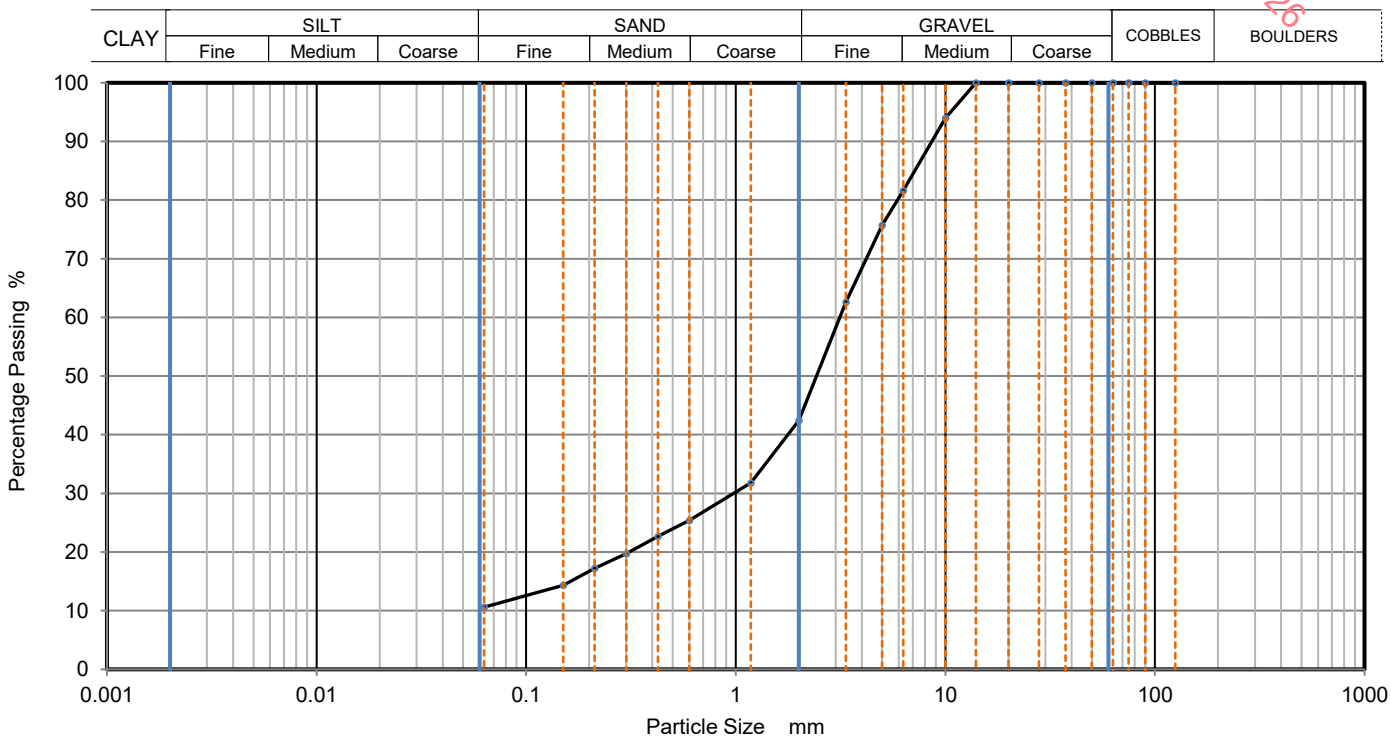
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP11
Site Name	Kingston Lands, Galway			Sample No.	8
Specimen Description	Greyish brown slightly gravelly slightly clayey fine to coarse SAND.			Sample Depth (m) Top	1.00
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702347

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	94		
6.3	82		
5	76		
3.35	63		
2	42		
1.18	32		
0.6	25		
0.425	23		
0.3	20		
0.212	17		
0.15	14		
0.063	11		

Dry Mass of sample, g	265

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	57.6
Sand	31.7
Fines <0.063mm	11.0

Grading Analysis		
D100	mm	
D60	mm	3.13
D30	mm	0.975
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

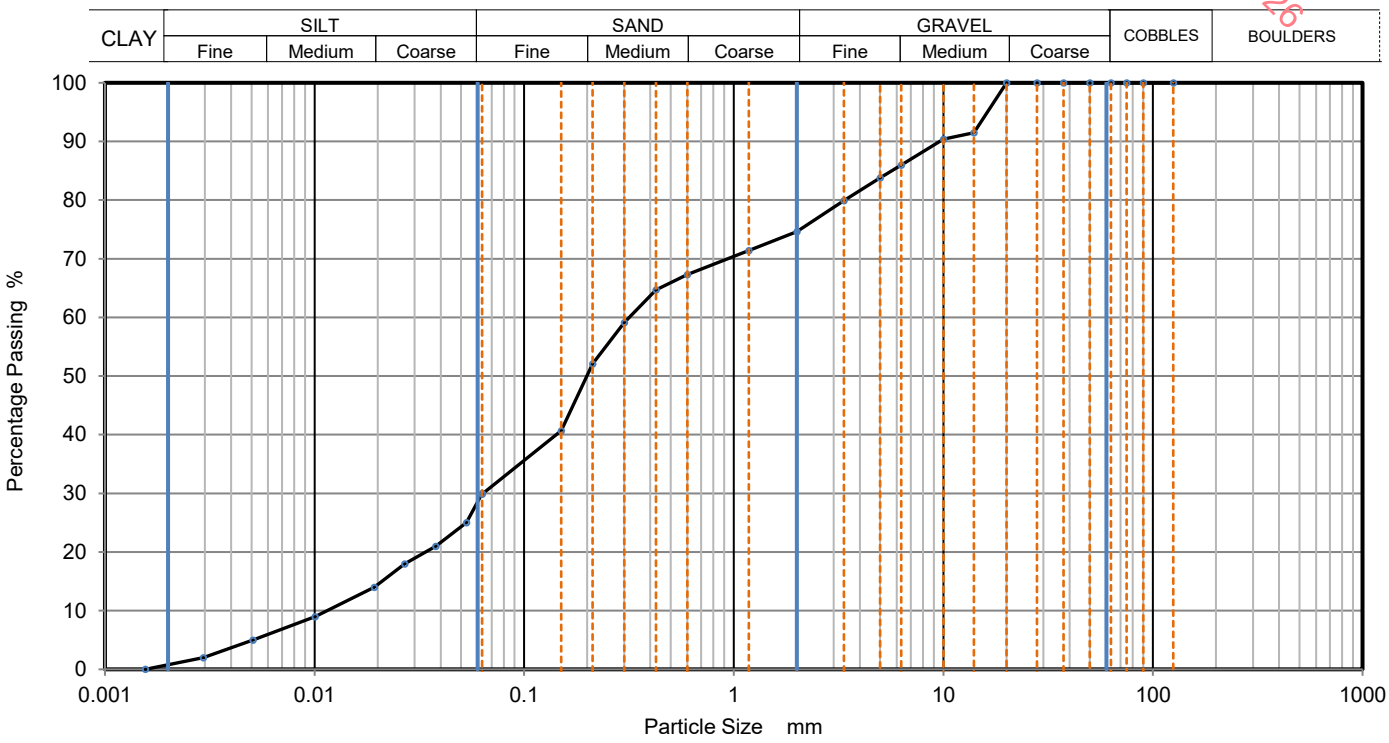
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP11
Site Name	Kingston Lands, Galway			Sample No.	7
Specimen Description	Grey very silty fine to coarse SAND.			Sample Depth (m) Top	3.50
				Base	
Specimen Reference	3	Specimen Depth	3.5 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702351

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.06300	30
90	100	0.05302	25
75	100	0.03791	21
63	100	0.02695	18
50	100	0.01926	14
37.5	100	0.01005	9
28	100	0.00508	5
20	100	0.00295	2
14	92	0.00156	0
10	90		
6.3	86		
5	84		
3.35	80		
2	75		
1.18	71		
0.6	67	Particle density	(assumed)
0.425	65	2.65	Mg/m3
0.3	59		
0.212	52		
0.15	41		
0.063	30		

Dry Mass of sample, g: 371

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	25.4
Sand	44.7
Silt	29.0
Clay	0.9

Grading Analysis		
D100	mm	
D60	mm	0.317
D30	mm	0.0634
D10	mm	0.0113
Uniformity Coefficient		28
Curvature Coefficient		1.1

Remarks

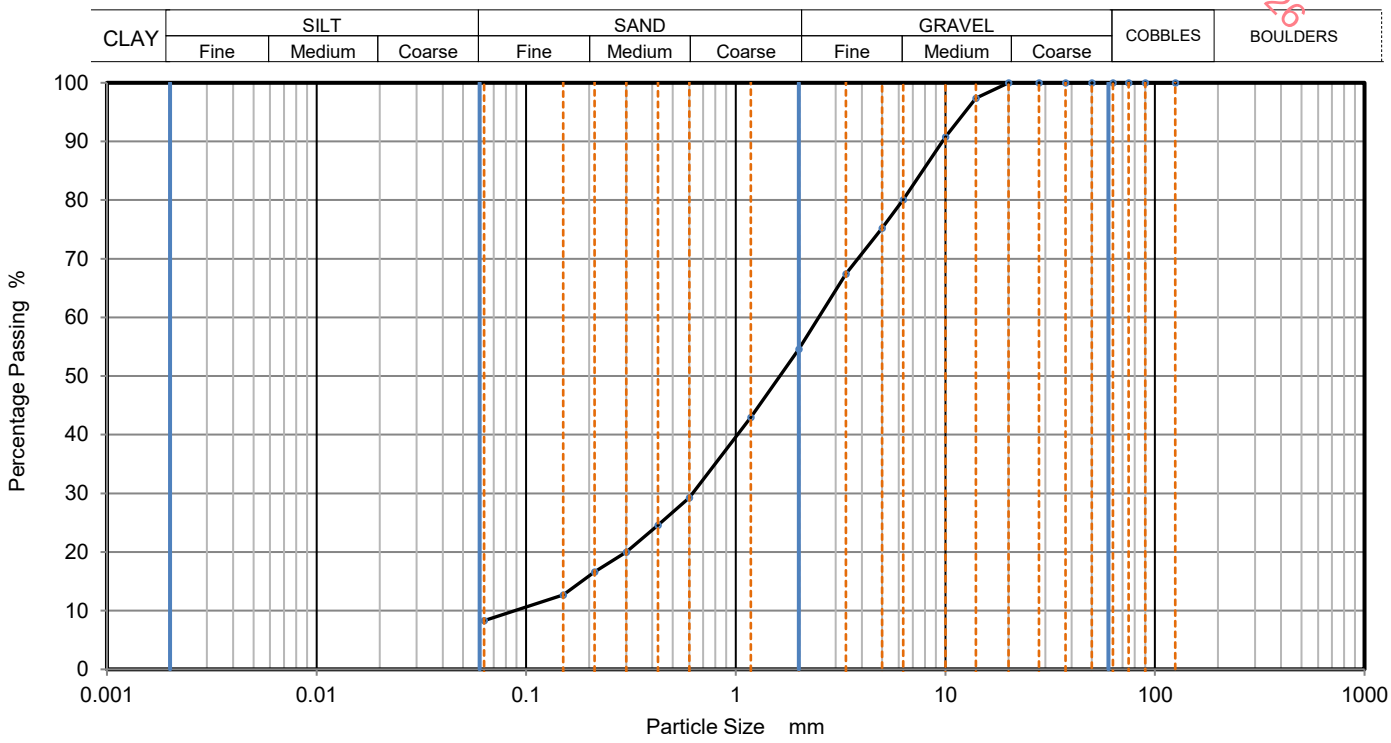
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP12
Site Name	Kingston Lands, Galway			Sample No.	1
Specimen Description	Brown slightly silty slightly gravelly fine to coarse SAND.			Sample Depth (m) Top	1.00
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702352

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	97		
10	91		
6.3	80		
5	75		
3.35	67		
2	55		
1.18	43		
0.6	29		
0.425	25		
0.3	20		
0.212	17		
0.15	13		
0.063	8		

Dry Mass of sample, g: 521

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	45.4
Sand	46.3
Fines <0.063mm	8.0

Grading Analysis		
D100	mm	
D60	mm	2.49
D30	mm	0.621
D10	mm	0.0878
Uniformity Coefficient		28
Curvature Coefficient		1.8

Remarks

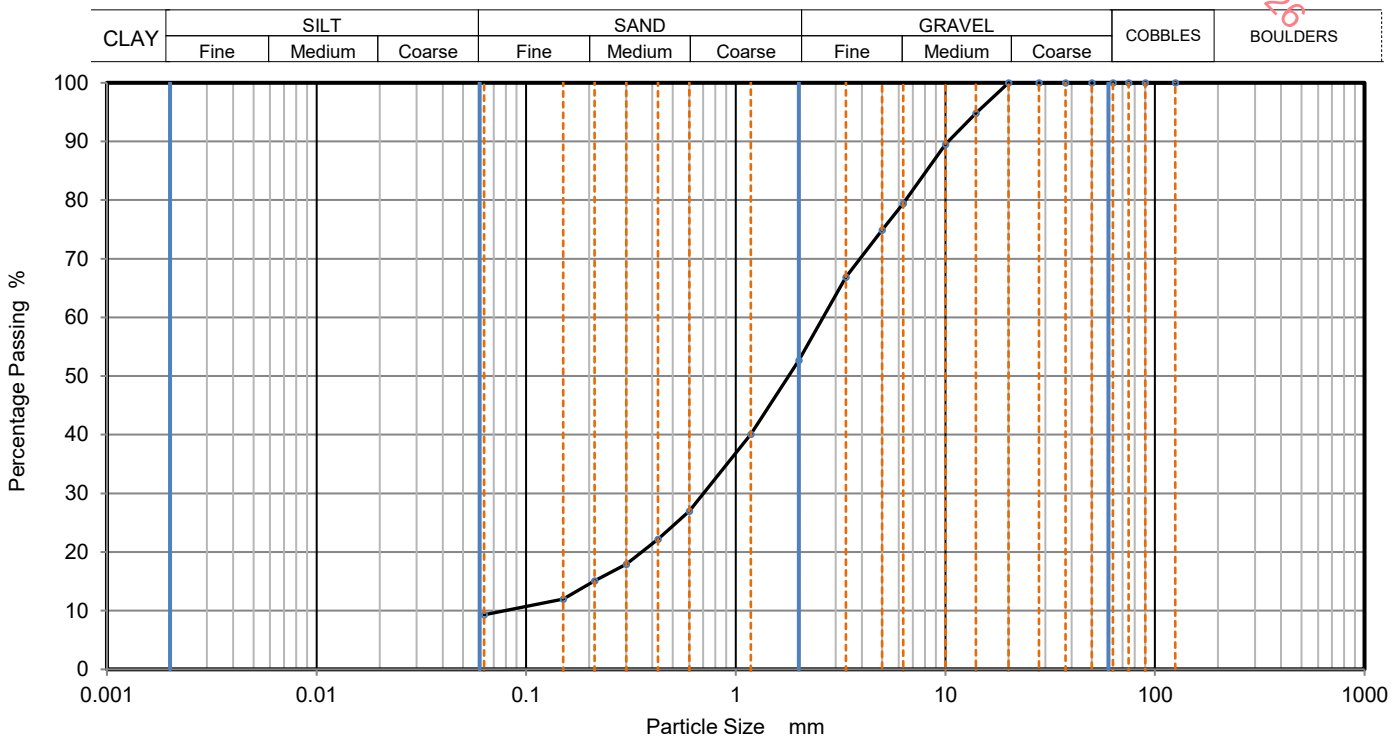
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP12
Site Name	Kingston Lands, Galway			Sample No.	2
Specimen Description	Brown slightly silty slightly gravelly fine to coarse SAND.			Sample Depth (m) Top	2.00
				Base	
Specimen Reference	3	Specimen Depth	2 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus202507023555

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	95		
10	90		
6.3	79		
5	75		
3.35	67		
2	53		
1.18	40		
0.6	27		
0.425	22		
0.3	18		
0.212	15		
0.15	12		
0.063	9		

Dry Mass of sample, g: 540

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	47.3
Sand	43.4
Fines <0.063mm	9.0

Grading Analysis		
D100	mm	
D60	mm	2.61
D30	mm	0.699
D10	mm	0.0788
Uniformity Coefficient		33
Curvature Coefficient		2.4

Remarks

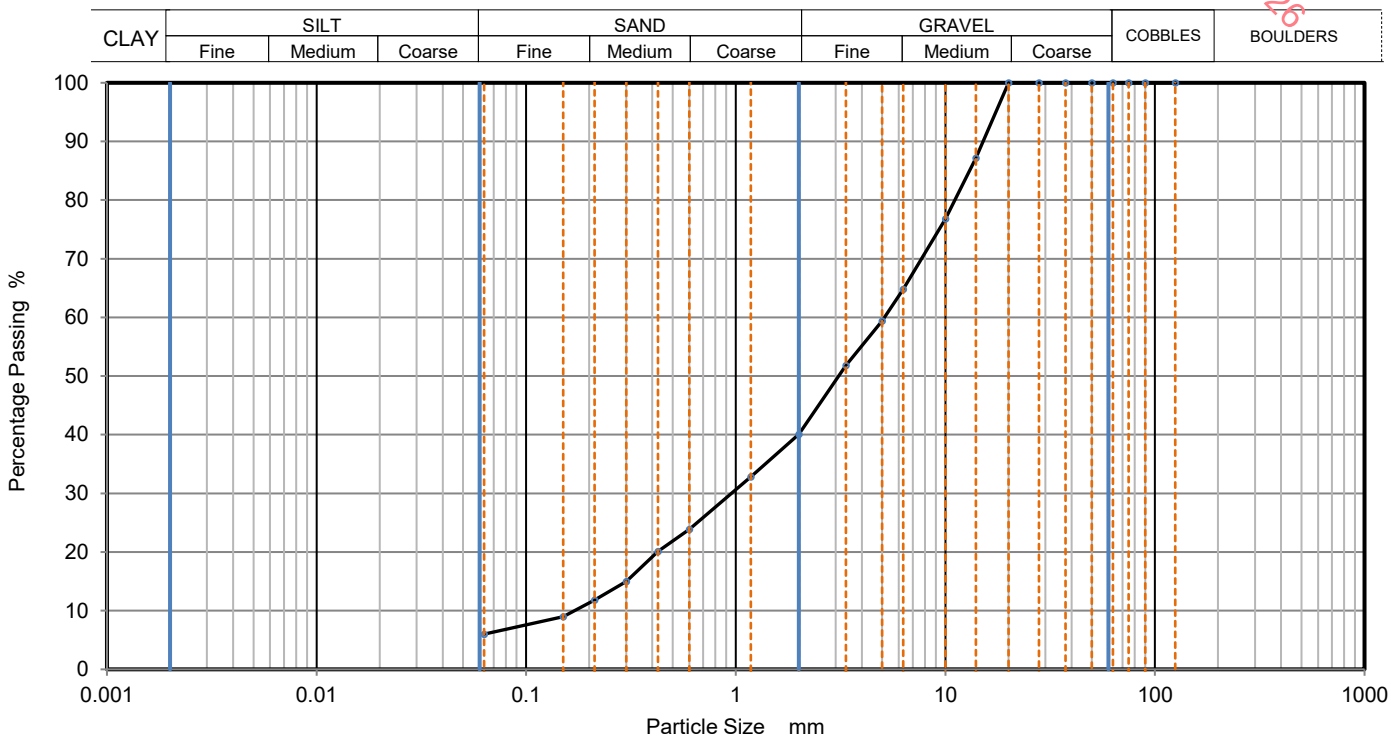
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Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP14
Site Name	Kingston Lands, Galway			Sample No.	2
Specimen Description	Reddish brown slightly silty slightly gravelly fine to coarse SAND.			Sample Depth (m) Top	0.90
				Base	
Specimen Reference	3	Specimen Depth	0.9 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus202507023 57

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	87		
10	77		
6.3	65		
5	59		
3.35	52		
2	40		
1.18	33		
0.6	24		
0.425	20		
0.3	15		
0.212	12		
0.15	9		
0.063	6		

Dry Mass of sample, g: 402

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	59.9
Sand	34.1
Fines <0.063mm	6.0

Grading Analysis		
D100	mm	
D60	mm	5.12
D30	mm	0.957
D10	mm	0.17
Uniformity Coefficient		30
Curvature Coefficient		1.1

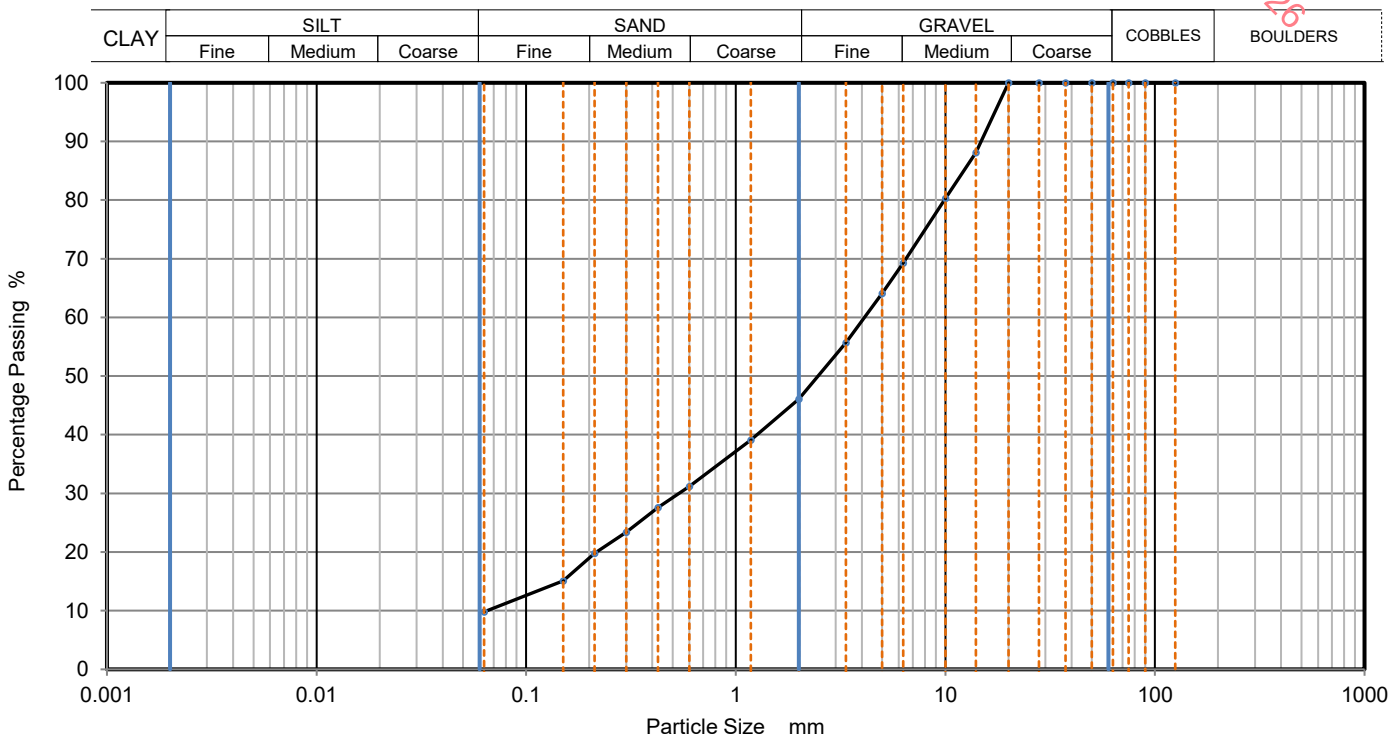
Remarks

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Stephen Watson

CAUSEWAY GEOTECH	PARTICLE SIZE DISTRIBUTION				Job Ref		24-0211
					Borehole/Pit No.		TP15
Site Name	Kingston Lands, Galway				Sample No.		9
Specimen Description	Brown slightly gravelly silty fine to coarse SAND.				Sample Depth (m)	Top	2.00
						Base	
Specimen Reference	3	Specimen Depth	2	m	Sample Type		B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016				KeyLAB ID		Caus202507023666

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	88		
10	80		
6.3	69		
5	64		
3.35	56		
2	46		
1.18	39		
0.6	31		
0.425	28		
0.3	23		
0.212	20		
0.15	15		
0.063	10		

Dry Mass of sample, g	899

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	53.9
Sand	36.2
Fines <0.063mm	10.0

Grading Analysis		
D100	mm	
D60	mm	4.11
D30	mm	0.536
D10	mm	0.0647
Uniformity Coefficient		64
Curvature Coefficient		1.1

Remarks

Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

Approved
Stephen Watson

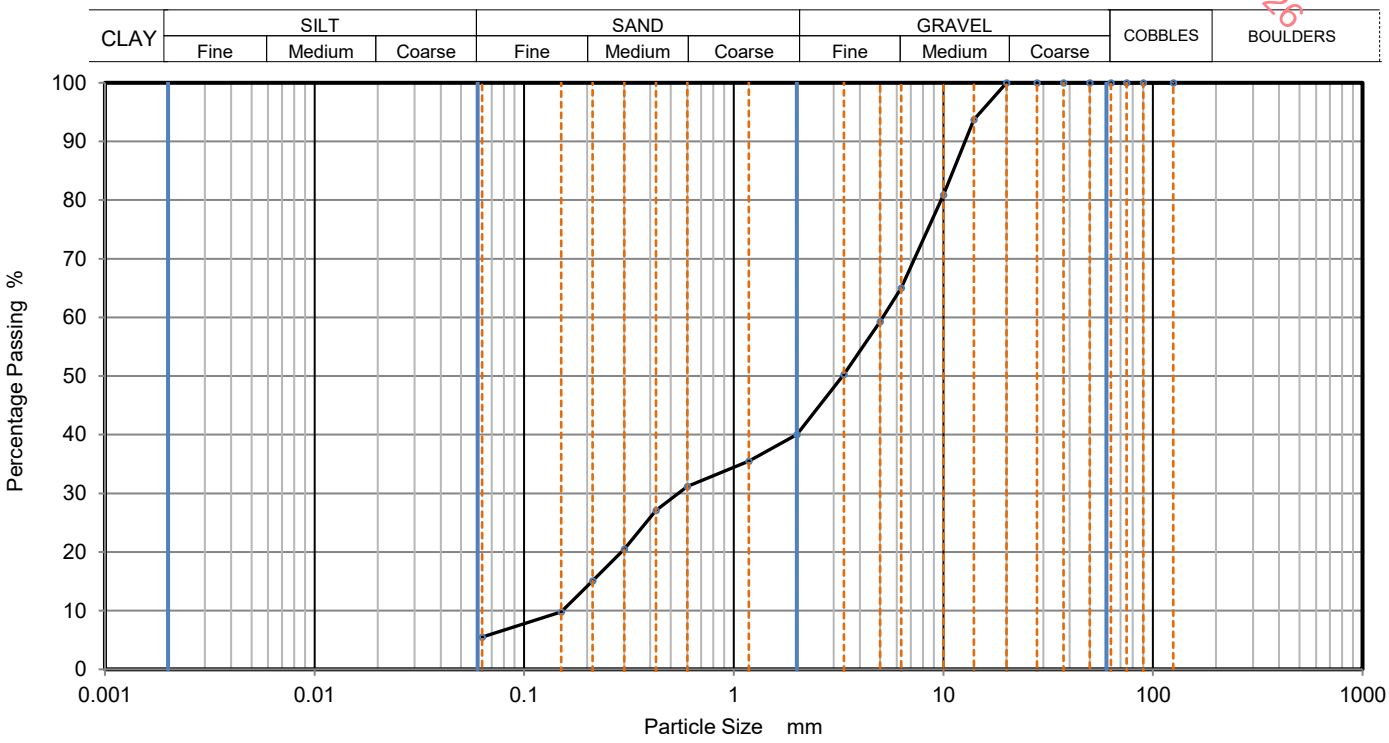
UKAS TESTING

10122

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP16
Site Name	Kingston Lands, Galway			Sample No.	3
Specimen Description	Reddish brown slightly gravelly clayey fine to coarse SAND.			Sample Depth (m) Top	1.00
				Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702370

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	94		
10	81		
6.3	65		
5	59		
3.35	50		
2	40		
1.18	36		
0.6	31		
0.425	27		
0.3	21		
0.212	15		
0.15	10		
0.063	6		

Dry Mass of sample, g: 356

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	60.0
Sand	34.5
Fines <0.063mm	5.0

Grading Analysis		
D100	mm	
D60	mm	5.14
D30	mm	0.544
D10	mm	0.152
Uniformity Coefficient		34
Curvature Coefficient		0.38

Remarks

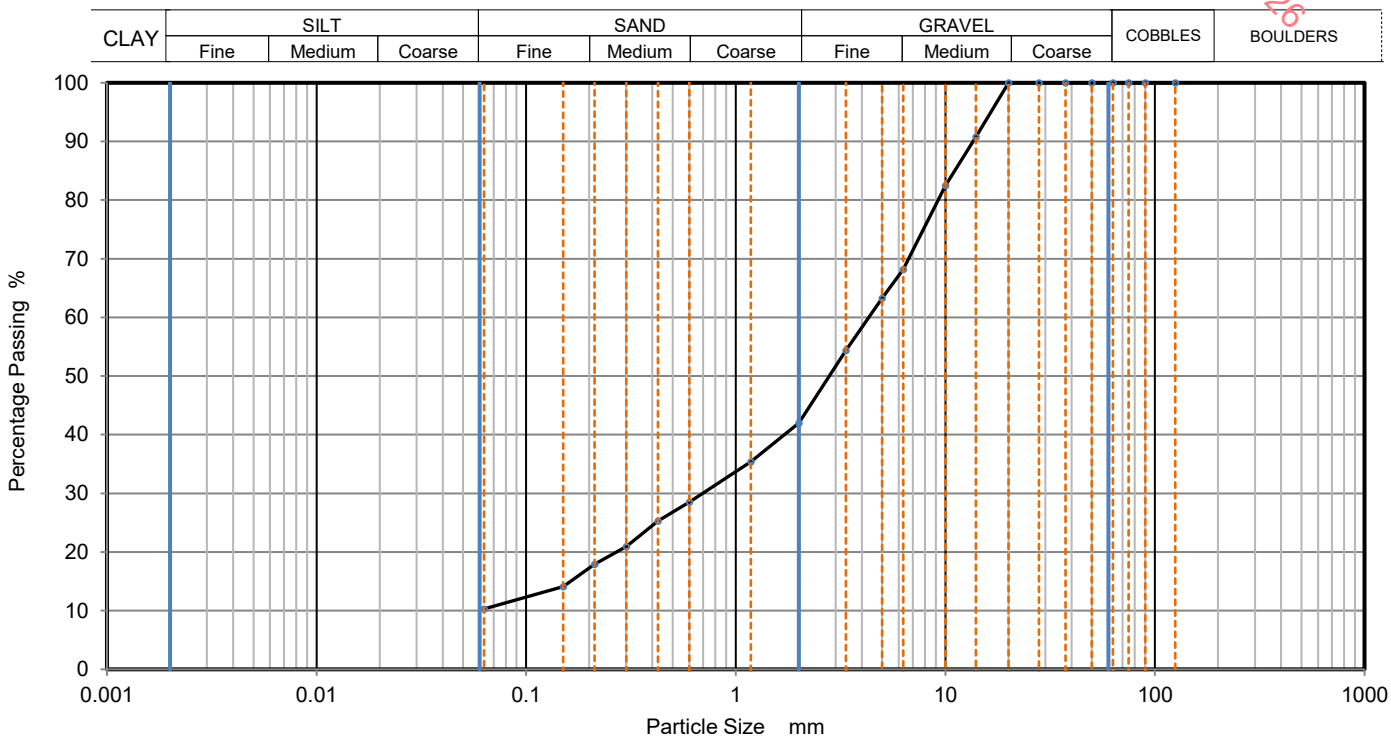
Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

Approved
Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP17
Site Name	Kingston Lands, Galway			Sample No.	4
Specimen Description	Dark reddish brown slightly gravelly clayey fine to coarse SAND.			Sample Depth (m) Top	1.00
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702374

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	91		
10	83		
6.3	68		
5	63		
3.35	54		
2	42		
1.18	35		
0.6	29		
0.425	25		
0.3	21		
0.212	18		
0.15	14		
0.063	10		

Dry Mass of sample, g: 251

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	58.0
Sand	31.7
Fines <0.063mm	10.0

Grading Analysis		
D100	mm	
D60	mm	4.3
D30	mm	0.696
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

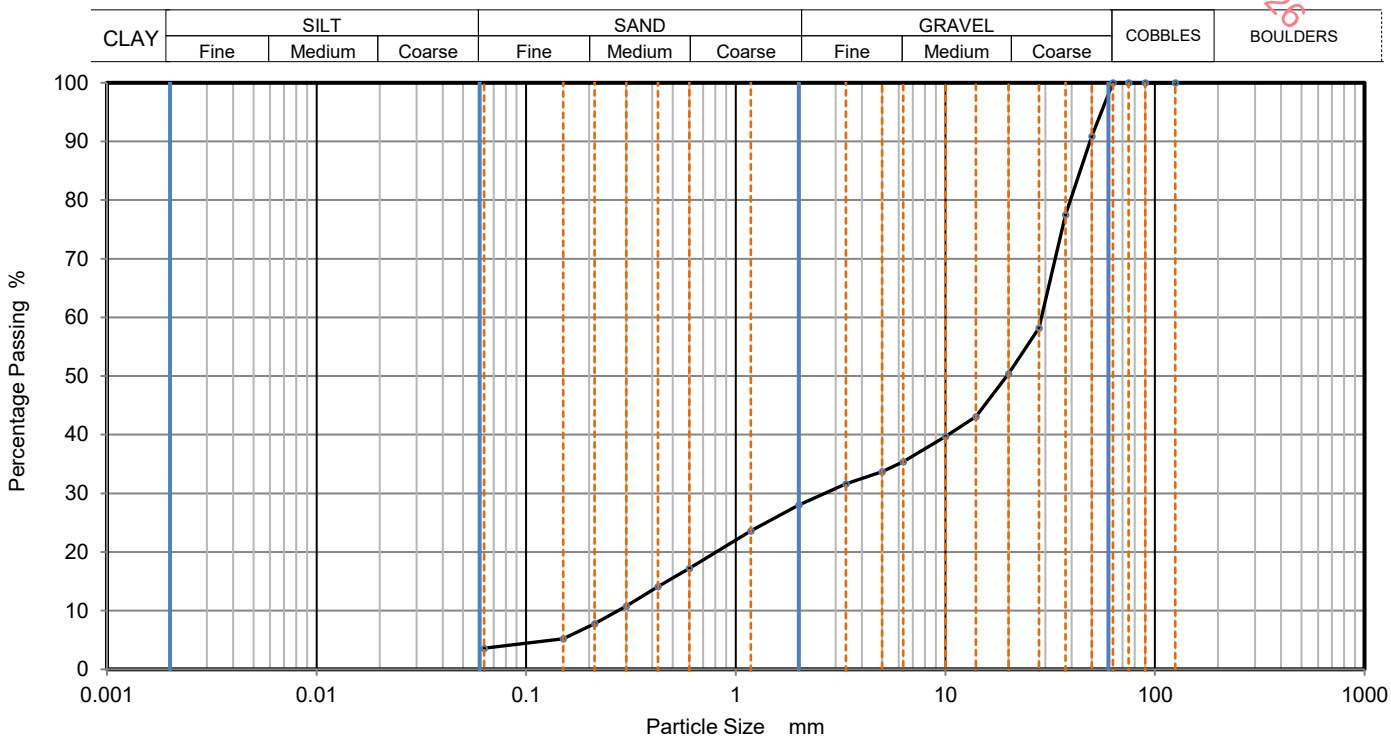
Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

Approved
Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP18
Site Name	Kingston Lands, Galway			Sample No.	6
Specimen Description	Light grey slightly gravelly silty fine to coarse SAND.			Sample Depth (m) Top	2.00
				Base	
Specimen Reference	3	Specimen Depth	2 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702379

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	91		
37.5	78		
28	58		
20	50		
14	43		
10	40		
6.3	35		
5	34		
3.35	32		
2	28		
1.18	24		
0.6	17		
0.425	14		
0.3	11		
0.212	8		
0.15	5		
0.063	4		

Dry Mass of sample, g: 4355

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	72.0
Sand	24.4
Fines <0.063mm	4.0

Grading Analysis		
D100	mm	
D60	mm	28.8
D30	mm	2.66
D10	mm	0.274
Uniformity Coefficient		100
Curvature Coefficient		0.9

Remarks

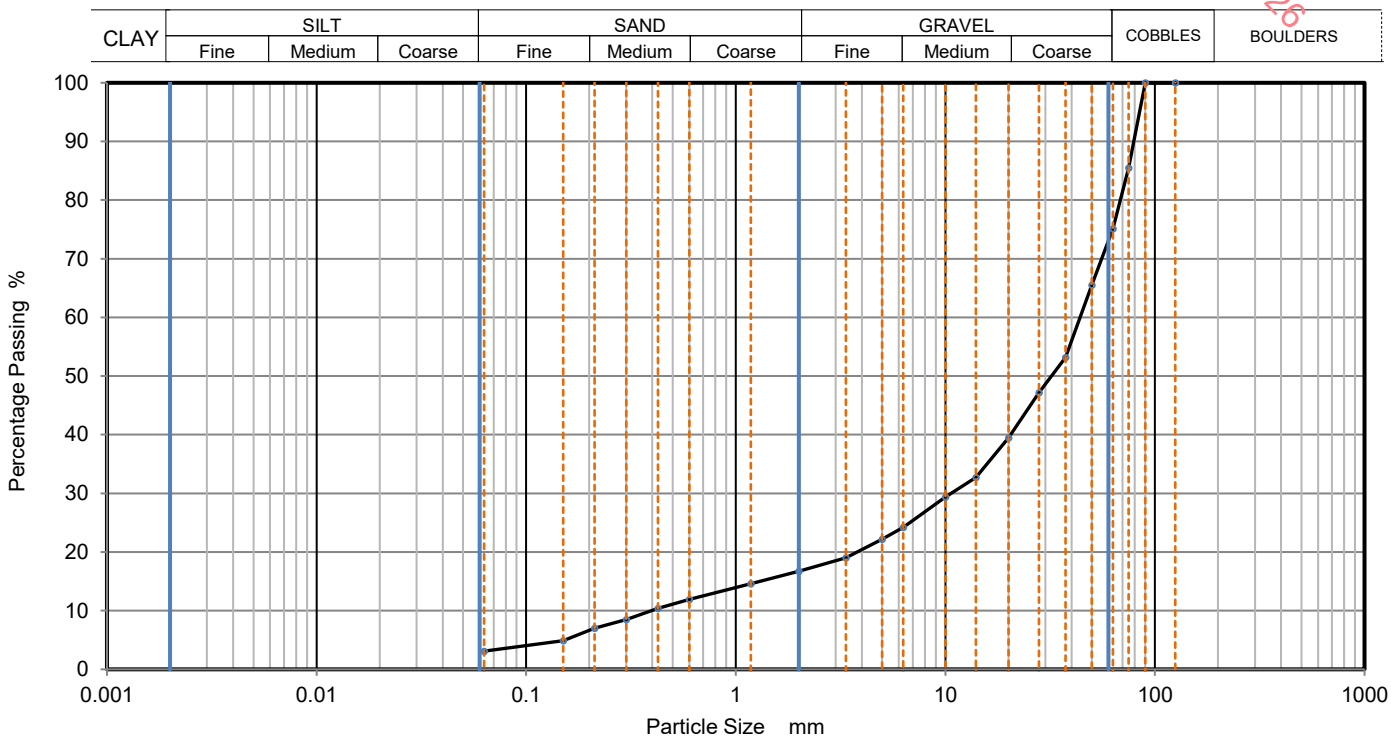
Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

Approved
Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP19
Site Name	Kingston Lands, Galway			Sample No.	4
Specimen Description	Light greyish brown slightly gravelly clayey fine to coarse SAND with cobbles.			Sample Depth (m) Top	1.00
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	B
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702382

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	86		
63	75		
50	66		
37.5	53		
28	47		
20	40		
14	33		
10	29		
6.3	24		
5	22		
3.35	19		
2	17		
1.18	15		
0.6	12		
0.425	10		
0.3	9		
0.212	7		
0.15	5		
0.063	3		

Dry Mass of sample, g	4954

Sample Proportions	% dry mass
Cobbles	24.9
Gravel	58.4
Sand	13.6
Fines <0.063mm	3.0

Grading Analysis		
D100	mm	
D60	mm	43.9
D30	mm	10.6
D10	mm	0.397
Uniformity Coefficient		110
Curvature Coefficient		6.5

Remarks

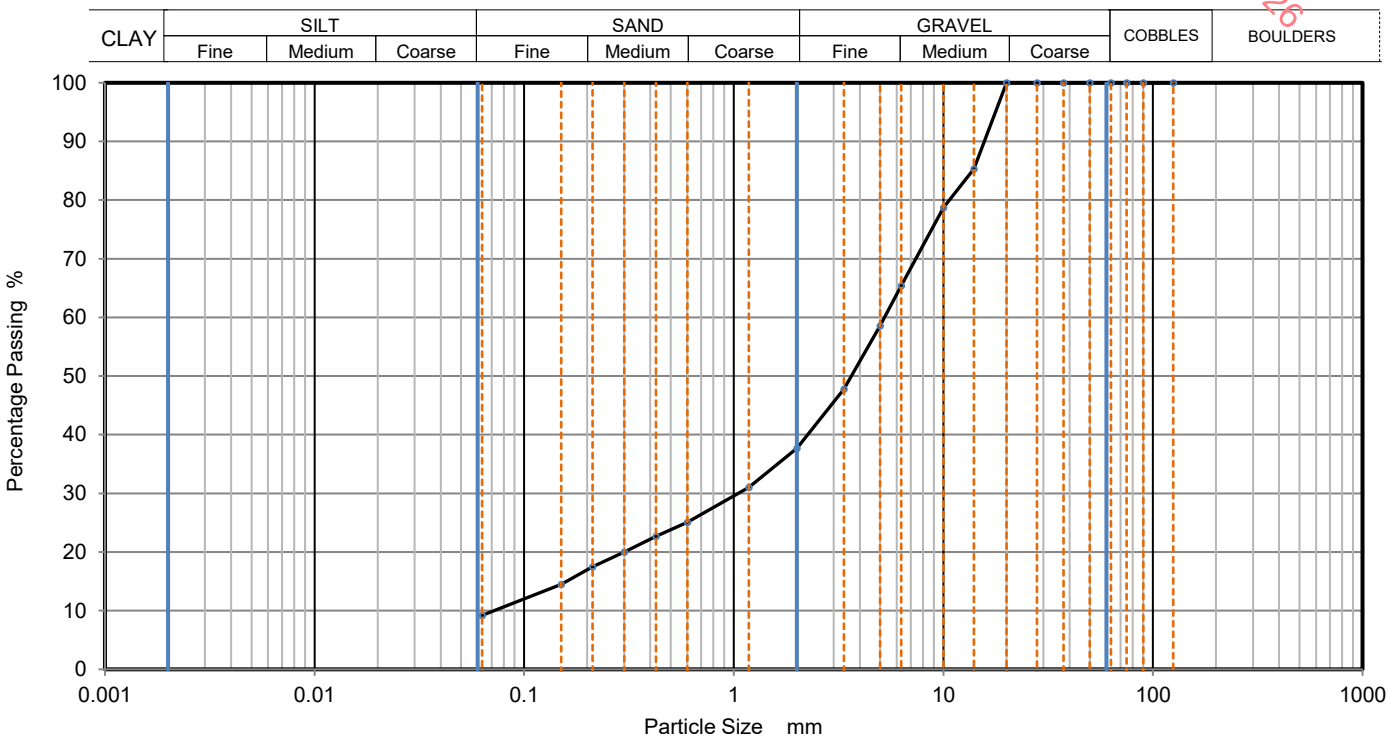
Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

Approved
Stephen Watson

PARTICLE SIZE DISTRIBUTION

				Job Ref	**24-0211**
				Borehole/Pit No.	TP20
Site Name	Kingston Lands, Galway			Sample No.	4
Specimen Description	Greyish brown slightly gravelly slightly silty fine to coarse SAND.			Sample Depth (m) Top	1.00
				Sample Depth (m) Base	
Specimen Reference	3	Specimen Depth	1 m	Sample Type	D
Test Method	BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016			KeyLAB ID	Caus20250702387

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Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	85		
10	79		
6.3	65		
5	59		
3.35	48		
2	38		
1.18	31		
0.6	25		
0.425	23		
0.3	20		
0.212	18		
0.15	15		
0.063	9		

Dry Mass of sample, g: 833

Sample Proportions	% dry mass
Cobbles	0.0
Gravel	62.3
Sand	28.5
Fines <0.063mm	9.0

Grading Analysis		
D100	mm	
D60	mm	5.24
D30	mm	1.05
D10	mm	0.0722
Uniformity Coefficient		73
Curvature Coefficient		2.9

Remarks

Preparation and testing to BS 1377-2 :2022 Cl 10 in accordance with ISO 17892-4:2016

Approved
Stephen Watson

Certificate of Analysis

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Certificate Number 25-15592 *Issued:* 21-Jul-25

Client Causeway Geotech
8 Drumahiskey Road
Ballymoney
County Antrim
BT53 7QL

Our Reference 25-15592

Client Reference ~ 24-0211

Order No ~ (not supplied)

Contract Title ~ Kingston Lands

Description 46 Soil samples.

Date Received 09-Jul-25

Date Started 09-Jul-25

Date Completed 21-Jul-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Reyhan Irfan
Operations Manager

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-15592
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

			Lab No	2535808	2535809	2535810	2535811	2535812	2535813	2535814	2535815	2535816	2535817	2535818
			Sample ID ~	BH01	BH02	BH03	BH04	BH05	BH06	BH07	BH07	BH08	BH09	BH10
			Depth ~	2.50	1.20	2.50	0.00	1.20	0.00	0.00	1.70	1.00	1.20	1.00
			Other ID ~	1	5	8	5	5	3	4	5	4	5	4
			Sample Type ~	D	D	B	B	B	B	B	D	D	B	D
			Sampling Date ~	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**											
Inorganics														
Loss on Ignition at 440oC	DETSC 2003#	0.01	%							71				
pH	DETSC 2008#		pH	8.3	10.3	8.7	8.3	8.5	11.6		8.5	7.4	8.8	8.9
Organic matter	DETSC 2002#	0.1	%							> 25				
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	11	53	20	15	29	43		14	21	15	15

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-15592
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

	Lab No	2535819	2535820	2535821	2535822	2535823	2535824	2535825	2535826	2535827	2535828	2535829
	Sample ID ~	BH11	BH12	BH13	BH14	BH15	BH16	BH17	BH18	BH19	BH20	BH23
	Depth ~	1.20	0.00	0.00	1.00	1.50	0.20	1.00	2.65	0.00	0.50	2.00
	Other ID ~	4	2	1	6	4	2	3	6	1	3	7
	Sample Type ~	B	B	B	D	D	B	D	B	B	D	D
	Sampling Date ~	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**									
Inorganics												
Loss on Ignition at 440oC	DETSC 2003#	0.01	%									
pH	DETSC 2008#		pH	8.4	8.6	11.4	8.4	9.0	6.9	8.3	7.8	6.0	9.0	7.9
Organic matter	DETSC 2002#	0.1	%									
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	18	15	62	15	14	14	13	< 10	160	13	15

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-15592
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

				Lab No	2535830	2535831	2535832	2535833	2535834	2535835	2535836	2535837	2535838	2535839	2535840
				Sample ID ~	BH24	BH25	BH26	SL04	TP01	TP02	TP03	TP04	TP05	TP06	TP07
				Depth ~	0.50	0.50	2.00	1.40	1.00	2.00	2.00	2.00	1.00	0.45	2.00
				Other ID ~	4	1	7	1	3	4	4	6	3	3	6
				Sample Type ~	B	B	D	B	D	D	D	D	D	D	D
				Sampling Date ~	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**												
Inorganics															
Loss on Ignition at 440oC	DETSC 2003#	0.01	%												
pH	DETSC 2008#		pH	8.3	8.3	8.4		8.3	8.4	7.9	8.2	7.9	8.5	7.7
Organic matter	DETSC 2002#	0.1	%				25								
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	15	< 10	10		12	56	110	91	15	16	14

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-15592
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

				Lab No	2535841	2535842	2535843	2535844	2535845	2535846	2535847	2535848	2535849	2535850	2535851
				Sample ID ~	TP08	TP09	TP10	TP11	TP12	TP13	TP14	TP15	TP16	TP17	TP18
				Depth ~	0.40	1.40	0.60	3.00	2.00	0.40	0.90	2.00	1.90	1.00	2.00
				Other ID ~	3	6	2	4	4	2	1	10	6	3	4
				Sample Type ~	D	D	D	D	D	D	D	D	D	D	D
				Sampling Date ~	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025	08/07/2025
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**												
Inorganics															
Loss on Ignition at 440oC	DETSC 2003#	0.01	%												
pH	DETSC 2008#		pH	7.0	8.1	7.8	8.5	7.9	8.2	7.1	8.0	7.5	6.7	7.7
Organic matter	DETSC 2002#	0.1	%												
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	14	52	10	< 10	11	12	13	< 10	< 10	< 10	12

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-15592
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

			Lab No	2535852	2535853
			Sample ID ~	TP19	TP20
			Depth ~	1.55	0.70
			Other ID ~	5	3
			Sample Type ~	D	D
			Sampling Date ~	08/07/2025	08/07/2025
			Sampling Time ~	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Inorganics					
Loss on Ignition at 440oC	DETSC 2003#	0.01	%		
pH	DETSC 2008#		pH	7.8	8.5
Organic matter	DETSC 2002#	0.1	%		
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	< 10	11

Normec DETS

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Information in Support of the Analytical Results

Our Ref 25-15592
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2535808	BH01 2.50 SOIL	08/07/25	PT 500ml		
2535809	BH02 1.20 SOIL	08/07/25	PT 500ml		
2535810	BH03 2.50 SOIL	08/07/25	PT 500ml		
2535811	BH04 0.00 SOIL	08/07/25	PT 500ml		
2535812	BH05 1.20 SOIL	08/07/25	PT 500ml		
2535813	BH06 0.00 SOIL	08/07/25	PT 500ml		
2535814	BH07 0.00 SOIL	08/07/25	PT 500ml		
2535815	BH07 1.70 SOIL	08/07/25	PT 500ml		
2535816	BH08 1.00 SOIL	08/07/25	PT 500ml		
2535817	BH09 1.20 SOIL	08/07/25	PT 500ml		
2535818	BH10 1.00 SOIL	08/07/25	PT 500ml		
2535819	BH11 1.20 SOIL	08/07/25	PT 500ml		
2535820	BH12 0.00 SOIL	08/07/25	PT 500ml		
2535821	BH13 0.00 SOIL	08/07/25	PT 500ml		
2535822	BH14 1.00 SOIL	08/07/25	PT 500ml		
2535823	BH15 1.50 SOIL	08/07/25	PT 500ml		
2535824	BH16 0.20 SOIL	08/07/25	PT 500ml		
2535825	BH17 1.00 SOIL	08/07/25	PT 500ml		
2535826	BH18 2.65 SOIL	08/07/25	PT 500ml		
2535827	BH19 0.00 SOIL	08/07/25	PT 500ml		
2535828	BH20 0.50 SOIL	08/07/25	PT 500ml		
2535829	BH23 2.00 SOIL	08/07/25	PT 500ml		
2535830	BH24 0.50 SOIL	08/07/25	PT 500ml		
2535831	BH25 0.50 SOIL	08/07/25	PT 500ml		
2535832	BH26 2.00 SOIL	08/07/25	PT 500ml		

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Information in Support of the Analytical Results

Our Ref 25-15592
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2535833	SL04 1.40 SOIL	08/07/25	PT 500ml		
2535834	TP01 1.00 SOIL	08/07/25	PT 500ml		
2535835	TP02 2.00 SOIL	08/07/25	PT 500ml		
2535836	TP03 2.00 SOIL	08/07/25	PT 500ml		
2535837	TP04 2.00 SOIL	08/07/25	PT 500ml		
2535838	TP05 1.00 SOIL	08/07/25	PT 500ml		
2535839	TP06 0.45 SOIL	08/07/25	PT 500ml		
2535840	TP07 2.00 SOIL	08/07/25	PT 500ml		
2535841	TP08 0.40 SOIL	08/07/25	PT 500ml		
2535842	TP09 1.40 SOIL	08/07/25	PT 500ml		
2535843	TP10 0.60 SOIL	08/07/25	PT 500ml		
2535844	TP11 3.00 SOIL	08/07/25	PT 500ml		
2535845	TP12 2.00 SOIL	08/07/25	PT 500ml		
2535846	TP13 0.40 SOIL	08/07/25	PT 500ml		
2535847	TP14 0.90 SOIL	08/07/25	PT 500ml		
2535848	TP15 2.00 SOIL	08/07/25	PT 500ml		
2535849	TP16 1.90 SOIL	08/07/25	PT 500ml		
2535850	TP17 1.00 SOIL	08/07/25	PT 500ml		
2535851	TP18 2.00 SOIL	08/07/25	PT 500ml		
2535852	TP19 1.55 SOIL	08/07/25	PT 500ml		
2535853	TP20 0.70 SOIL	08/07/25	PT 500ml		

Key: P-Plastic T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

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Information in Support of the Analytical Results

Our Ref 25-15592
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

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Information in Support of the Analytical Results

Our Ref 25-15592
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 25.03.07

LABORATORY RESTRICTION REPORT

Project Reference	24-0211	To	Matthew Gilbert
Project Name	Kingston Lands, Galway	Position	Project Manager
TR reference	24-0211 /	From	Joseph Nicholl
		Position	Laboratory Quality Manager

RECEIVED: 05/08/2026

The following sample(s) and test(s) are restricted as detailed below. Could you please complete the "Required Action" column and return the completed form to the laboratory.

Hole Number	Sample			Test Type	Reason for Restriction	Required Action
	Number	Depth (m)	Type			
TP11	5	1.00	D	Atterberg limits	Insufficient material passing 425µ sieve to carry out test	Cancel Test
TP07	12	3.00	B	Atterberg limits	GRAVEL - Insufficient fines	Cancel Test

For electronic reporting a form of electronic signature or printed name is acceptable

Laboratory Signature Joseph Nicholl	Project Manager Signature Matthew Gilbert
Date 16 July 2025	Date 16 July 2025

CAUSEWAY GEOTECH

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RECEIVED: 05/08/2026

SOIL AND ROCK SAMPLE ANALYSIS
LABORATORY TEST REPORT

22 July 2025

PROJECT NAME	Kingston Lands, Galway
PROJECT NUMBER	24-0211
CLIENT	King Construction
ENGINEER	TOBIN / MKO

We are pleased to attach the results of laboratory testing carried out for the above project. This memo and its attachments constitute a report of the results of tests as detailed in the Contents page(s). This testing was performed between 27/06/2025 and 22/07/2025.

The attached results complete the testing requested and we would therefore wish to confirm that samples will be retained without charge for a period of 28 days from the above date after which they will be appropriately disposed of unless we receive written instructions to the contrary prior to that date.

We trust our report meets with your approval but if you have any queries or require additional information, please do not hesitate to contact the undersigned.

Stephen Watson

Laboratory Manager

Signed for and on behalf of Causeway Geotech Ltd

CAUSEWAY GEOTECH

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PROJECT NAME: Kingston Lands, Galway

REPORT REFERENCE: Rock Schedule 1

The table below details the tests carried out, the specifications used, and the number of tests included in this report. Tests marked with* in this report are not United Kingdom Accreditation Service (UKAS) accredited and are not included in Causeway Geotech Limited's scope of UKAS Accreditation Schedule of Tests.

The results contained in this report relate to the sample(s) as received. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This report shall not be reproduced other than in full, without the prior written approval of the laboratory.

Material tested	Type of test/Properties measured/Range of measurement	Standard specifications	No. of results included in the report
ROCK	Point load index	*ISRM Commission on Testing Methods. Suggested Method for Determining Point Load Strength 1985*	10
ROCK	Uniaxial Compressive Strength (UCS)	*The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson*	3

CAUSEWAY GEOTECH

Point Load Strength Index Tests
Summary of Results

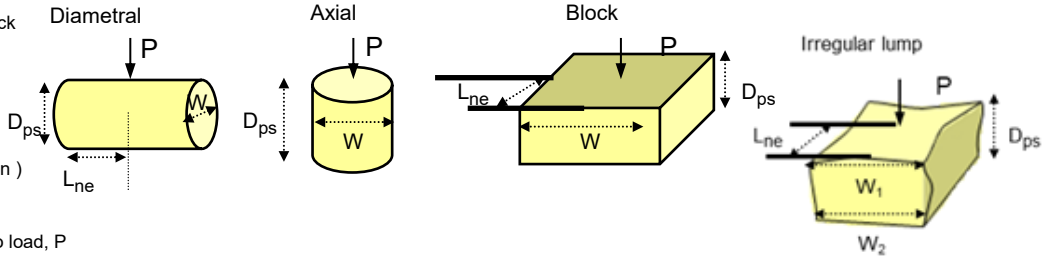
Project No.: 24-0211

Project Name: Kingston Lands, Galway

RECEIVED: 05/08/2025

Borehole No.	Sample			Specimen		Rock Type	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index		Remarks (including water content if measured)
	Depth	Ref.	Type	Ref.	Depth		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m				m					mm	mm	mm	mm	kN	mm	MPa	MPa	
BH01	4.20	1	C	2	4.20	GRANITE	A	U	YES		101.3	72.0	69.0	16.6	94.3	1.9	2.5	
BH01	5.10	3	C	2	5.10	GRANITE	A	U	YES		101.2	82.0	79.0	12.3	100.9	1.2	1.7	
BH19	2.80	1	C	2	2.80	GRANITE	D	U	YES	84.8	101.3	101.3	99.0	19.7	100.1	2.0	2.7	
BH19	3.50	2	C	2	3.50	GRANITE	A	U	YES		101.4	91.0	90.0	27.0	107.8	2.3	3.3	
BH19	4.00	3	C	2	4.00	GRANITE	D	U	NO	59.5	101.5	101.5	99.0	55.4	100.2	5.5	7.5	
BH25A	2.80	1	C	2	2.80	GRANITE	I	U	YES	44.8	64.3	100.0	98.0	34.9	89.5	4.4	5.7	
BH25A	3.70	2	C	2	3.70	GRANITE	A	U	YES		100.9	59.0	56.0	31.4	84.8	4.4	5.5	
BH25A	4.20	3	C	2	4.20	GRANITE	D	U	YES	58.3	100.8	1008.0	98.0	37.6	99.4	3.8	5.2	
BH25A	4.90	4	C	2	4.90	GRANITE	A	U	YES		100.8	85.0	82.0	35.9	102.6	3.4	4.7	
BH25A	5.80	5	C	2	5.80	GRANITE	A	U	YES		100.7	94.0	93.0	12.8	109.2	1.1	1.5	

Test Type
D - Diametral, A - Axial, I - Irregular Lump, B - Block
Direction
L - parallel to planes of weakness
P - perpendicular to planes of weakness
U - unknown or random
Dimensions
Dps - Distance between platens (platen separation)
Dps' - at failure (see ISRM note 6)
Lne - Length from platens to nearest free end
W - Width of shortest dimension perpendicular to load, P



Test performed in accordance with ISRM Suggested Methods : 1985, unless noted otherwise

Detailed legend for test and dimensions, based on ISRM, is shown above.

Size factor, F = (De/50)0.45 for all tests.

LAB 17R - Version 5

Date Printed: 22/07/2025

Approved By: Stephen Watson

UKAS TESTING
10122

CAUSEWAY GEOTECH	UNIAXIAL COMPRESSIVE STRENGTH ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006				
Site Name	Kingston Lands, Galway			Project number	24-0211
Sample Description	GRANITE			Location ID	BH01
Sample Type	C	Sample number	2	Top Depth	4.70
Date of sampling	NOT KNOWN	Date of receipt	18/07/2025	Base Depth	4.95
Test Method	International Society for Rock Mechanics, The complete ISRM suggested methods for Rock Characterization Testing and Monitoring, 2007, p153, part 1			Keylab ID	Caus2025071163

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Specimen Details

Test number	1	
Diameter	101.2	mm
Height	178.3	mm
Water Content	0.2	%
Sample Mass	3824	g
Bulk Density	2.67	Mg/m3
Dry Density	2.66	Mg/m3
Length to Diameter Ratio	1.8	

Specimen Remarks

Specimen did not meet the ISRM length to diameter requirements. Non-standard testing carried out.

Test Results

Load Frame	LF01	
Test Supplier	Impact Test Equipment	
Test Machine	L101	
Test Date	21/07/2025	
Test Duration	61.0	Secs
Orientation of sample	VERTICAL	
Rate of Strain	0.76	MPa/s
Strain at Failure	420.6	kN
Unconfined Compressive Strength	52.30	MPa
Mode of failure	multiple shear	

Test Remarks

Approved

Stephen Watson

UKAS TESTING
10122

CAUSEWAY GEOTECH	UNIAXIAL COMPRESSIVE STRENGTH ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006				
Site Name	Kingston Lands, Galway			Project number	24-0211
Sample Description	GRANITE			Location ID	BH01
Sample Type	C	Sample number	4	Top Depth	5.90
Date of sampling	NOT KNOWN	Date of receipt	21/07/2025	Base Depth	6.20
Test Method	International Society for Rock Mechanics, The complete ISRM suggested methods for Rock Characterization Testing and Monitoring, 2007, p153, part 1			Keylab ID	Caus2025071165

RECEIVED: 05/08/2026

Specimen Details

Test number	1	
Diameter	101.5	mm
Height	158.7	mm
Water Content	0.3	%
Sample Mass	3270	g
Bulk Density	2.55	Mg/m3
Dry Density	2.54	Mg/m3
Length to Diameter Ratio	1.6	

Specimen Remarks

Specimen did not meet the ISRM length to diameter requirements. Non-standard testing carried out.

Test Results

Load Frame	LF01	
Test Supplier	Impact Test Equipment	
Test Machine	L101	
Test Date	18/07/2025	
Test Duration	22.0	Secs
Orientation of sample	VERTICAL	
Rate of Strain	0.75	MPa/s
Strain at Failure	240.3	kN
Unconfined Compressive Strength	29.70	MPa
Mode of failure	multiple shear	

Test Remarks

Approved

Stephen Watson

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CAUSEWAY GEOTECH	UNIAXIAL COMPRESSIVE STRENGTH ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006				
Site Name	Kingston Lands, Galway			Project number	24-0211
Sample Description	GRANITE			Location ID	BH19
Sample Type	C	Sample number	4	Top Depth	5.20
Date of sampling	NOT KNOWN	Date of receipt	21/07/2025	Base Depth	5.60
Test Method	International Society for Rock Mechanics, The complete ISRM suggested methods for Rock Characterization Testing and Monitoring, 2007, p153, part 1			Keylab ID	Caus2025071169

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Specimen Details

Test number	1	
Diameter	101.6	mm
Height	226.1	mm
Water Content	0.2	%
Sample Mass	4866	g
Bulk Density	2.65	Mg/m3
Dry Density	2.64	Mg/m3
Length to Diameter Ratio	2.2	

Specimen Remarks

Test Results

Load Frame	LF01	
Test Supplier	Impact Test Equipment	
Test Machine	L101	
Test Date	18/07/2025	
Test Duration	266.0	Secs
Orientation of sample	VERTICAL	
Rate of Strain	0.75	MPa/s
Strain at Failure	932.1	kN
Unconfined Compressive Strength	115.00	MPa
Mode of failure	fragmented	

Test Remarks

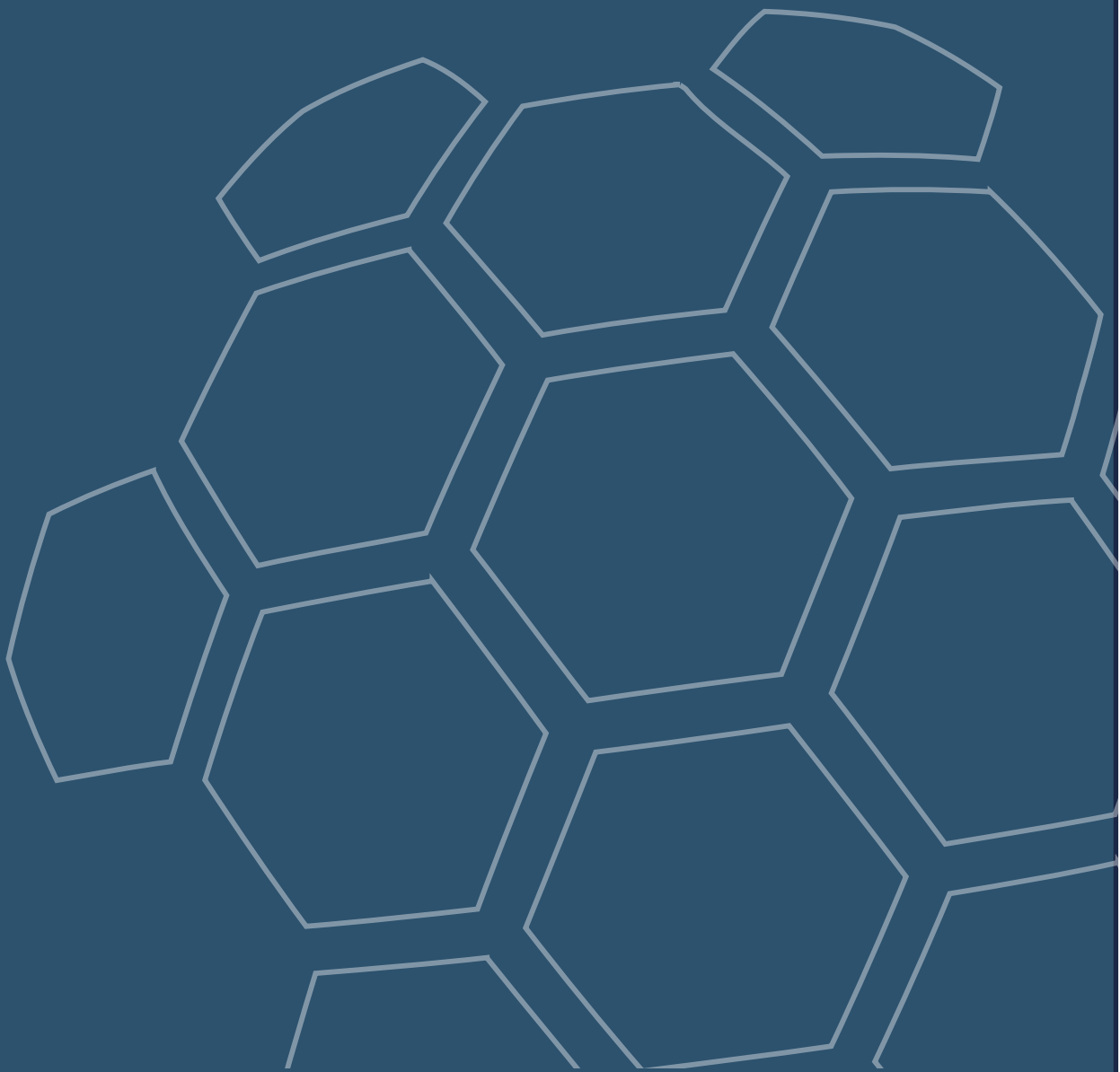
Approved

Stephen Watson

UKAS TESTING
10122

APPENDIX M – ENVIRONMENTAL LABORATORY TEST RESULTS

RECEIVED: 05/08/2026



Certificate of Analysis

RECEIVED: 05/08/2026

Certificate Number	25-12536	*Issued:*	19-Jun-25

Client Causeway Geotech
Unit 1 Fingal House
Stephenstown Industrial Estate
Balbriggan
Co. Dublin
K32 VR66

Our Reference 25-12536

Client Reference ~ 24-0211

Order No ~ (not supplied)

Contract Title ~ Kingston Lands Galway

Description 6 Soil samples, 6 Leachate prepared by DETS samples.

Date Received 04-Jun-25

Date Started 04-Jun-25

Date Completed 19-Jun-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Geddes
Laboratory Manager

2139

Sample Deviations present. See Deviation Table Section for details.

Normec DETS

RECEIVED: 05/08/2025

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12536
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

Lab No		2518592	2518593	2518594	2518595	2518596	2518597
Sample ID ~		ETP04	ETP06	TP10a	TP11	TP12	TP13a
Depth ~		1.00	0.50	0.40	0.50	0.50	0.50
Other ID ~		3	1	6	1	1	1
Sample Type ~		ES	ES	ES	ES	ES	ES
Sampling Date ~		23/05/2025	23/05/2025	23/05/2025	23/05/2025	23/05/2025	23/05/2025
Sampling Time ~		n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Preparation							
Moisture Content	DETSC 1004	0.1	%	37	3.6	13	7.3	4.5	5.3
Metals							
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	3.0	1.2	3.3	1.4	1.0	1.2
Barium	DETSC 2301#	1.5	mg/kg	19	12	17	8.4	7.0	5.9
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.9	0.3	0.9	< 0.2	< 0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	< 0.1	0.2	0.1	< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	4.0	2.2	2.2	4.3	3.1	3.9
Chromium III	DETSC 2301*	0.15	mg/kg	4.0	2.2	2.2	4.3	3.1	3.9
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	31	6.4	14	13	9.7	4.7
Lead	DETSC 2301#	0.3	mg/kg	18	16	22	20	15	10
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	8.7	1.0	2.0	0.5	0.5	< 0.4
Nickel	DETSC 2301#	1	mg/kg	3.1	1.4	2.0	3.8	3.3	2.8
Selenium	DETSC 2301#	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	58	22	24	42	25	28
Inorganics							
pH	DETSC 2008#		pH	7.1	8.4	8.5	8.7	6.8	6.7
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.4	0.1	0.6	< 0.1	0.2	0.2
Total Organic Carbon	DETSC 2084#	0.5	%	13	1.1	7.6	0.7	1.1	1.3
Sulphide	DETSC 2024*	10	mg/kg	60	< 10	< 10	12	20	< 10
Sulphur (free)	DETSC 3049#	0.75	mg/kg	3.2	1.1	1.4	1.1	1.1	1.1
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.22	0.02	0.09	0.01	0.02	0.02
Petroleum Hydrocarbons							
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	2.79	2.20	2.11	2.26	2.02	2.10
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	1.88	0.97	1.29	0.69	0.85	0.79

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12536
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

RECEIVED: 05/08/2025

			Lab No	2518592	2518593	2518594	2518595	2518596	2518597
			Sample ID ~	ETP04	ETP06	TP10a	TP11	TP12	TP13a
			Depth ~	1.00	0.50	0.40	0.50	0.50	0.50
			Other ID ~	3	1	6	1	1	1
			Sample Type ~	ES	ES	ES	ES	ES	ES
			Sampling Date ~	23/05/2025	23/05/2025	23/05/2025	23/05/2025	23/05/2025	23/05/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	10.15	3.86	32.58	< 1.40	6.34	16.90
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	12.04	< 10.00	33.87	< 10.00	< 10.00	17.69
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	12.04	< 10.00	33.87	< 10.00	< 10.00	17.69
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	16.29	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Coronene	DETSC 3301*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	1.6	< 0.3	1.7	< 0.3	< 0.3	0.4

Summary of Chemical Analysis
Leachate Samples

Our Ref 25-12536
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

RECEIVED: 05/08/2025

	Lab No	2518598	2518599	2518600	2518601	2518602	2518603
	Sample ID ~	ETP04	ETP06	TP10a	TP11	TP12	TP13a
	Depth ~	1.00	0.50	0.40	0.50	0.50	0.50
	Other ID ~	3	1	6	1	1	1
	Sample Type ~	ES	ES	ES	ES	ES	ES
	Sampling Date ~	23/05/2025	23/05/2025	23/05/2025	23/05/2025	23/05/2025	23/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Preparation								
BS EN 12457-2 10:1	DETSC 1009*			Y	Y	Y	Y	Y	Y
Inorganics								
Un-Ionised Ammonia	*	0.02	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	0.60	0.41	1.9	0.21	< 0.02	0.26

Normec DETS

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-12536
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP04 3 1.00

Sample Numbers 2518592 2518598
Date Analysed 19/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	13.0	3	5	6
DETSC 2003# Loss On Ignition	%	37.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	15.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.4	0.01	0.5	2	25
DETSC 2306 Barium as Ba	22	0.2	20	100	300
DETSC 2306 Cadmium as Cd	0.045	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.59	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	8.1	0.08	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	36	0.4	0.5	10	30
DETSC 2306 Nickel as Ni	1.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	4.8	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.64	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	17	0.17	4	50	200
DETSC 2055 Chloride as Cl	10000	100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	79000	790	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	210000	2100	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	31000	310	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.6
DETSC 2009 Conductivity uS/cm	301.0
* Temperature*	19.0

Mass of Sample Kg	0.142
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.847
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12536
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP06 1 0.50
Sample Numbers 2518593 2518599
Date Analysed 19/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.1	3	5	6
DETSC 2003# Loss On Ignition	%	1.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	3.4	0.03	0.5	2	25
DETSC 2306 Barium as Ba	9.7	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.05	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.1	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	13	0.13	2	50	100
DETSC 2306 Mercury as Hg	0.024	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	5	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	6.3	0.06	0.5	10	50
DETSC 2306 Antimony as Sb	1.1	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.8	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	9.6	0.1	4	50	200
DETSC 2055 Chloride as Cl	5400	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	6700	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	88000	880	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	32000	320	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.5
DETSC 2009 Conductivity uS/cm	125.0
* Temperature*	19.0

Mass of Sample Kg	0.093
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.897
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12536
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP10a 6 0.40

Sample Numbers 2518594 2518600
Date Analysed 19/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	7.6	3	5	6
DETSC 2003# Loss On Ignition	%	17.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	36.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.5	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	2.1	0.02	0.5	2	25
DETSC 2306 Barium as Ba	9.6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.098	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.2	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	18	0.18	2	50	100
DETSC 2306 Mercury as Hg	0.039	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	5.5	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	4.4	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.31	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	2.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	15	0.15	4	50	200
DETSC 2055 Chloride as Cl	5100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	6300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	87000	870	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	62000	620	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.0
DETSC 2009 Conductivity uS/cm	125.0
* Temperature*	19.0

Mass of Sample Kg	0.104
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.886
Volume of Eluate VE1	0.78

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12536
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP11 1 0.50

Sample Numbers 2518595 2518601
Date Analysed 19/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.7	3	5	6
DETSC 2003# Loss On Ignition	%	1.2	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.7	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.93	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	7.4	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.051	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.1	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	12	0.12	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	9.2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.6	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	14	0.14	0.5	10	50
DETSC 2306 Antimony as Sb	0.3	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	16	0.16	4	50	200
DETSC 2055 Chloride as Cl	2200	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	250	2.5	10	150	500
DETSC 2055 Sulphate as SO4	8000	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	78000	780	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	26000	260	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.3
DETSC 2009 Conductivity uS/cm	111.0
* Temperature*	19.0

Mass of Sample Kg	0.097
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.893
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-12536
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP12 1 0.50

Sample Numbers 2518596 2518602
Date Analysed 19/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.1	3	5	6
DETSC 2003# Loss On Ignition	%	1.8	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate) Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.2	0.01	0.5	2	25
DETSC 2306 Barium as Ba	4.6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.047	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	3.1	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	9.6	0.1	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.4	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.4	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	12	0.12	0.5	10	50
DETSC 2306 Antimony as Sb	0.19	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	8.6	0.09	4	50	200
DETSC 2055 Chloride as Cl	3600	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	4800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	19000	190	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	13000	130	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	26.9
* Temperature*	19.0

Mass of Sample Kg	0.094
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.896
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12536
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP13a 1 0.50

Sample Numbers 2518597 2518603
Date Analysed 19/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.3	3	5	6
DETSC 2003# Loss On Ignition	%	2.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	20.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.7	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	4.2	0.04	0.5	2	25
DETSC 2306 Barium as Ba	11	0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.042	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	9.5	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	8	0.08	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	4.8	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	6.5	0.07	0.5	10	50
DETSC 2306 Antimony as Sb	0.58	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	15	0.15	4	50	200
DETSC 2055 Chloride as Cl	1800	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	250	2.5	10	150	500
DETSC 2055 Sulphate as SO4	4600	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	37000	370	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	25000	250	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	53.0
* Temperature*	19.0

Mass of Sample Kg	0.095
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.895
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-12536
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

RECEIVED: 05/08/2026

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2518592	ETP04 3 1.00	SOIL	NAD	none	Pierce Booth
2518593	ETP06 1 0.50	SOIL	NAD	none	Pierce Booth
2518594	TP10a 6 0.40	SOIL	NAD	none	Pierce Booth
2518595	TP11 1 0.50	SOIL	NAD	none	Pierce Booth
2518596	TP12 1 0.50	SOIL	NAD	none	Pierce Booth
2518597	TP13a 1 0.50	SOIL	NAD	none	Pierce Booth

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

RECEIVED: 05/08/2026

Information in Support of the Analytical Results

Our Ref 25-12536
Client Ref ~ 24-0211
Contract ~ Kingston Lands Galway

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2518592	ETP04 1.00 SOIL	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518593	ETP06 0.50 SOIL	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518594	TP10a 0.40 SOIL	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518595	TP11 0.50 SOIL	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518596	TP12 0.50 SOIL	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518597	TP13a 0.50 SOIL	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518598	ETP04 1.00 LEACHATE	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2518599	ETP06 0.50 LEACHATE	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2518600	TP10a 0.40 LEACHATE	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2518601	TP11 0.50 LEACHATE	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2518602	TP12 0.50 LEACHATE	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2518603	TP13a 0.50 LEACHATE	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic >EC40-EC44	EH_2D_AL
Aliphatic C5-C44	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic >EC40-EC44	EH_2D_AR
Aromatic C5-C44	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C44	EH_2D+HS_1D_Total
EPH >C24-C40	EH_2D_Total
Mineral Oil >C10-C40 + Clean Up	EH_CU_2D_Total

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Key:

~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 25.03.07

Certificate of Analysis

RECEIVED: 05/08/2026

Certificate Number 25-12538 *Issued:* 25-Jun-25

Client Causeway Geotech
Unit 1 Fingal House
Stephenstown Industrial Estate
Balbriggan
Co. Dublin
K32 VR66

Our Reference 25-12538

Client Reference ~ 24-0211

Order No ~ (not supplied)

Contract Title ~ Kingston Lands Galway

Description 6 Soil samples, 6 Leachate prepared by DETS samples.

Date Received 04-Jun-25

Date Started 04-Jun-25

Date Completed 25-Jun-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Reyhan Irfan
Operations Manager

2139

Sample Deviations present. See Deviation Table Section for details.

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-12538
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

Lab No		2518604	2518605	2518606	2518607	2518608	2518609
Sample ID ~		ETP03	TP04	TP05	TP09	TP08	TP14
Depth ~		0.50	1.00	0.50	0.50	0.50	0.50
Other ID ~		1	2	1	1	1	1
Sample Type ~		ES	ES	ES	ES	ES	ES
Sampling Date ~		26/05/2025	26/05/2025	26/05/2025	26/05/2025	26/05/2025	26/05/2025
Sampling Time ~		n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Preparation							
Moisture Content	DETSC 1004	0.1	%	34	35	10	24	14	14
Metals							
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	11	1.6	2.8	4.8	1.0	0.9
Barium	DETSC 2301#	1.5	mg/kg	24	12	17	29	8.0	4.0
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	1.2	0.7	0.4	1.1	0.3	0.2
Cadmium	DETSC 2301#	0.1	mg/kg	1.8	0.4	0.3	0.5	< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	16	5.8	6.7	5.1	1.5	0.83
Chromium III	DETSC 2301*	0.15	mg/kg	16	5.8	6.7	5.1	1.5	0.83
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	160	54	35	59	5.8	5.9
Lead	DETSC 2301#	0.3	mg/kg	31	14	20	36	5.6	7.1
Mercury	DETSC 2325#	0.05	mg/kg	0.15	0.09	< 0.05	0.09	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	11	16	2.6	3.5	< 0.4	1.1
Nickel	DETSC 2301#	1	mg/kg	11	6.8	5.2	7.5	< 1.0	< 1.0
Selenium	DETSC 2301#	0.5	mg/kg	3.8	1.1	< 0.5	1.8	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	28	28	27	26	5.0	13
Inorganics							
pH	DETSC 2008#		pH	6.8	7.0	6.8	6.4	6.4	6.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.7	0.3	0.3	0.7	0.5	0.3
Total Organic Carbon	DETSC 2084#	0.5	%	21	19	3.9	21	4.5	2.9
Sulphide	DETSC 2024*	10	mg/kg	40	36	< 10	32	< 10	< 10
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	< 0.75	1.5	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.29	0.25	0.04	0.22	0.03	0.03
Petroleum Hydrocarbons							
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	2.72	3.51	2.12	2.51	2.55	2.78
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	2.29	1.65	< 1.20	1.71	1.75
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	1.22	< 0.60	0.68	1.32	0.73	< 0.60

Normec DETS

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-12538
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

	Lab No	2518604	2518605	2518606	2518607	2518608	2518609
	Sample ID ~	ETP03	TP04	TP05	TP09	TP08	TP14
	Depth ~	0.50	1.00	0.50	0.50	0.50	0.50
	Other ID ~	1	2	1	1	1	1
	Sample Type ~	ES	ES	ES	ES	ES	ES
	Sampling Date ~	26/05/2025	26/05/2025	26/05/2025	26/05/2025	26/05/2025	26/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	< 1.40	< 1.40	6.88	7.45	3.17
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Coronene	DETSC 3301*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	2.6	3.2	1.0	2.6	1.0	0.9

Summary of Chemical Analysis
Leachate Samples

Our Ref 25-12538
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

RECEIVED: 05/08/2025

Lab No	2518610	2518611	2518612	2518613	2518614	2518615
Sample ID ~	ETP03	TP04	TP05	TP09	TP08	TP14
Depth ~	0.50	1.00	0.50	0.50	0.50	0.50
Other ID ~	1	2	1	1	1	1
Sample Type ~	ES	ES	ES	ES	ES	ES
Sampling Date ~	26/05/2025	26/05/2025	26/05/2025	26/05/2025	26/05/2025	26/05/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Inorganics									
Un-Ionised Ammonia	*	0.02	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	0.15	0.13	< 0.02	0.82	0.09	< 0.02

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-12538
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

RECEIVED: 05/08/2026

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2518604	ETP03 1 0.50	SOIL	NAD	none	Pierce Booth
2518605	TP04 2 1.00	SOIL	NAD	none	Pierce Booth
2518606	TP05 1 0.50	SOIL	NAD	none	Pierce Booth
2518607	TP09 1 0.50	SOIL	NAD	none	Pierce Booth
2518608	TP08 1 0.50	SOIL	NAD	none	Pierce Booth
2518609	TP14 1 0.50	SOIL	NAD	none	Pierce Booth

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Normec DETS

RECEIVED: 05/09/2025

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-12538
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP03 1 0.50

Sample Numbers 2518604 2518610
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	21.0	3	5	6
DETSC 2003# Loss On Ignition	%	67.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.61	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	7.1	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.031	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	< 0.25	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	3.4	0.03	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	59	0.6	0.5	10	30
DETSC 2306 Nickel as Ni	0.58	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.47	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.26	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.3	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	4.7	0.05	4	50	200
DETSC 2055 Chloride as Cl	6000	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	18000	180	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	77000	770	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	18000	180	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.1
DETSC 2009 Conductivity uS/cm	111.0
* Temperature*	19.0

Mass of Sample Kg	0.136
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.854
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12538
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP04 2 1.00

Sample Numbers 2518605 2518611
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	19.0	3	5	6
DETSC 2003# Loss On Ignition	%	83.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.89	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	5.8	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.07	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.81	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	11	0.11	2	50	100
DETSC 2306 Mercury as Hg	0.013	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	32	0.3	0.5	10	30
DETSC 2306 Nickel as Ni	0.99	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.27	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	8.6	0.09	4	50	200
DETSC 2055 Chloride as Cl	5300	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	110	1.1	10	150	500
DETSC 2055 Sulphate as SO4	23000	230	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	72000	720	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	16000	160	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	103.0
* Temperature*	19.0

Mass of Sample Kg	0.139
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.851
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

Normec DETS

RECEIVED: 05/09/2025

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-12538
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP05 1 0.50

Sample Numbers 2518606 2518612
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.9	3	5	6
DETSC 2003# Loss On Ignition	%	9.3	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.5	0.02	0.5	2	25
DETSC 2306 Barium as Ba	8.9	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.058	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	4.5	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	23	0.23	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	4	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	15	0.15	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	8.9	0.09	4	50	200
DETSC 2055 Chloride as Cl	2100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	3500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	17000	170	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	21000	210	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.7
DETSC 2009 Conductivity uS/cm	24.8
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.89
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12538
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP09 1 0.50
Sample Numbers 2518607 2518613
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	21.0	3	5	6
DETSC 2003# Loss On Ignition	%	50.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	11.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.85	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	7.1	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.062	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.2	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	18	0.18	2	50	100
DETSC 2306 Mercury as Hg	0.012	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	3.6	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2.6	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	4.5	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.24	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	7.3	0.07	4	50	200
DETSC 2055 Chloride as Cl	2300	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	150	1.5	10	150	500
DETSC 2055 Sulphate as SO4	4200	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	37000	370	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	33000	330	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.4
DETSC 2009 Conductivity uS/cm	52.3
* Temperature*	19.0

Mass of Sample Kg	0.118
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.872
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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Normec DETS

RECEIVED: 05/09/2025

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-12538
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP08 1 0.50

Sample Numbers 2518608 2518614
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	4.5	3	5	6
DETSC 2003# Loss On Ignition	%	8.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	12.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	6.3	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.038	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	2	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	8.5	0.09	2	50	100
DETSC 2306 Mercury as Hg	0.016	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.5	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.5	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	7.7	0.08	0.5	10	50
DETSC 2306 Antimony as Sb	0.18	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.4	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	8.4	0.08	4	50	200
DETSC 2055 Chloride as Cl	3300	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	3800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	25000	250	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	44000	440	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.2
DETSC 2009 Conductivity uS/cm	35.7
* Temperature*	19.0

Mass of Sample Kg	0.105
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.885
Volume of Eluate VE1	0.709

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12538
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP14 1 0.50
Sample Numbers 2518609 2518615
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.9	3	5	6
DETSC 2003# Loss On Ignition	%	6.4	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.5	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.66	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	4.1	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.12	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.89	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	8.7	0.09	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.3	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	4.4	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.29	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.92	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	5.6	0.06	4	50	200
DETSC 2055 Chloride as Cl	2900	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	32000	320	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	36000	360	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.0
DETSC 2009 Conductivity uS/cm	45.6
* Temperature*	19.0

Mass of Sample Kg	0.104
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.886
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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Information in Support of the Analytical Results

Our Ref 25-12538
Client Ref ~ 24-0211
Contract ~ Kingston Lands Galway

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2518604	ETP03 0.50 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518605	TP04 1.00 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518606	TP05 0.50 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518607	TP09 0.50 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518608	TP08 0.50 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518609	TP14 0.50 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2518610	ETP03 0.50 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2518611	TP04 1.00 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2518612	TP05 0.50 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2518613	TP09 0.50 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2518614	TP08 0.50 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2518615	TP14 0.50 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	

Lab No	Sample ID	Comments
2518610	ETP03 0.50 LEA	Insufficient sample 942.5g (<2kg) Sample received
2518613	TP09 0.50 LEAC	Insufficient sample 1686g (<2kg) Sample received

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic >EC40-EC44	EH_2D_AL
Aliphatic C5-C44	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic >EC40-EC44	EH_2D_AR
Aromatic C5-C44	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C44	EH_2D+HS_1D_Total
EPH >C24-C40	EH_2D_Total
Mineral Oil >C10-C40 + Clean Up	EH_CU_2D_Total

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Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 25.03.07

Certificate of Analysis

RECEIVED: 05/08/2026

Certificate Number 25-12718 *Issued:* 25-Jun-25

Client Causeway Geotech
Unit 1 Fingal House
Stephenstown Industrial Estate
Balbriggan
Co. Dublin
K32 VR66

Our Reference 25-12718

Client Reference ~ 24-0211

Order No ~ (not supplied)

Contract Title ~ Kingston Lands Galway

Description 18 Soil samples, 18 Leachate prepared by DETS samples.

Date Received 06-Jun-25

Date Started 06-Jun-25

Date Completed 25-Jun-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Reyhan Irfan
Operations Manager

2139

Sample Deviations present. See Deviation Table Section for details.

Normec DETS

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

			Lab No	2519560	2519561	2519562	2519563	2519564	2519565
			Sample ID ~	BH08	BH08	BH10	BH11	ETP01	ETP02
			Depth ~	0.50	1.00	0.50	0.50	0.50	0.50
			Other ID ~	1	2	1	1	1	1
			Sample Type ~	ES	ES	ES	ES	ES	ES
			Sampling Date ~	28/05/2025	28/05/2025	26/05/2025	26/05/2025	27/05/2025	27/05/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	29	23	4.5	7.0	7.1	61
Metals									
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	2.6	1.3	1.6	1.4	2.1	2.1
Barium	DETSC 2301#	1.5	mg/kg	19	13	6.6	9.2	5.9	7.8
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.3	0.2	0.3	< 0.2	< 0.2	0.7
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.1	< 0.1	< 0.1	< 0.1	1.7
Chromium	DETSC 2301#	0.15	mg/kg	3.3	2.8	7.0	4.2	4.4	4.4
Chromium III	DETSC 2301*	0.15	mg/kg	3.3	2.8	7.0	4.2	4.4	4.4
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	16	7.6	17	9.1	10	120
Lead	DETSC 2301#	0.3	mg/kg	26	13	18	15	12	9.8
Mercury	DETSC 2325#	0.05	mg/kg	0.07	< 0.05	< 0.05	< 0.05	< 0.05	0.06
Molybdenum	DETSC 2301#	0.4	mg/kg	1.5	0.8	2.0	2.5	1.6	52
Nickel	DETSC 2301#	1	mg/kg	3.1	2.8	4.8	2.9	3.3	3.2
Selenium	DETSC 2301#	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.1
Zinc	DETSC 2301#	1	mg/kg	24	19	35	29	15	48
Inorganics									
pH	DETSC 2008#		pH	7.4	7.6	7.4	7.8	7.5	6.2
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5	0.3	0.2	0.2	0.1	0.3
Total Organic Carbon	DETSC 2084#	0.5	%	8.0	3.3	2.3	1.6	1.5	45
Sulphide	DETSC 2024*	10	mg/kg	23	27	27	42	19	130
Sulphur (free)	DETSC 3049#	0.75	mg/kg	0.81	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.12	0.15	< 0.01	0.14	0.09	0.07
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	4.25	3.86	3.27	2.99	3.26	6.25
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	2.35	2.36	2.05	1.53	1.88	3.96
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	1.60	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	12.32	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	18.92	< 10.00	< 10.00	< 10.00	< 10.00	10.21
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	1.07	1.22	< 0.60	0.67	< 0.60	< 0.60

Normec DETS

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

	Lab No	2519560	2519561	2519562	2519563	2519564	2519565
	Sample ID ~	BH08	BH08	BH10	BH11	ETP01	ETP02
	Depth ~	0.50	1.00	0.50	0.50	0.50	0.50
	Other ID ~	1	2	1	1	1	1
	Sample Type ~	ES	ES	ES	ES	ES	ES
	Sampling Date ~	28/05/2025	28/05/2025	26/05/2025	26/05/2025	27/05/2025	27/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	6.81	3.42	3.80	3.09	3.41	3.65
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	18.92	< 10.00	< 10.00	< 10.00	< 10.00	10.21
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	19.13	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Coronene	DETSC 3301*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.8	0.4	< 0.3	< 0.3	< 0.3	1.8

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

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			Lab No	2519566	2519567	2519568	2519569	2519570	2519571
			Sample ID ~	ETP02	ETP08	TP01	TP02	TP02	TP03
			Depth ~	1.00	0.50	0.50	0.50	1.00	0.50
			Other ID ~	2	1	1	1	2	1
			Sample Type ~	ES	ES	ES	ES	ES	ES
			Sampling Date ~	27/05/2025	28/05/2025	27/05/2025	27/05/2025	27/05/2025	27/05/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	20	11	6.2	64	13	57
Metals									
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	1.3	1.0	2.2	3.3	1.0	9.4
Barium	DETSC 2301#	1.5	mg/kg	15	5.2	16	19	22	19
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.2	0.3	< 0.2	1.1	< 0.2	1.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	< 0.1	< 0.1	1.2	0.3	2.6
Chromium	DETSC 2301#	0.15	mg/kg	6.7	5.4	5.5	4.9	4.1	11
Chromium III	DETSC 2301*	0.15	mg/kg	6.7	5.4	5.5	4.9	4.1	11
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	31	5.9	19	120	29	240
Lead	DETSC 2301#	0.3	mg/kg	12	8.8	8.3	18	8.1	17
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.07	< 0.05	0.08
Molybdenum	DETSC 2301#	0.4	mg/kg	11	0.9	0.7	18	0.8	17
Nickel	DETSC 2301#	1	mg/kg	5.2	1.1	4.6	3.5	3.2	5.7
Selenium	DETSC 2301#	0.5	mg/kg	0.5	< 0.5	< 0.5	3.6	< 0.5	6.2
Zinc	DETSC 2301#	1	mg/kg	29	8.9	24	14	18	9.7
Inorganics									
pH	DETSC 2008#		pH	7.9	6.0	7.9	6.1	8.3	6.2
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.5	< 0.1	0.5	< 0.1	0.3
Total Organic Carbon	DETSC 2084#	0.5	%	2.1	3.1	0.6	36	1.6	41
Sulphide	DETSC 2024*	10	mg/kg	38	31	< 10	45	27	33
Sulphur (free)	DETSC 3049#	0.75	mg/kg	1.7	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.93	0.03	0.11	0.14	0.08	0.95
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	2.03	2.90	2.69	6.02	2.05	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	1.64	1.54	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60

Normec DETS

RECEIVED: 05/08/2025

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

	Lab No	2519566	2519567	2519568	2519569	2519570	2519571
	Sample ID ~	ETP02	ETP08	TP01	TP02	TP02	TP03
	Depth ~	1.00	0.50	0.50	0.50	1.00	0.50
	Other ID ~	2	1	1	1	2	1
	Sample Type ~	ES	ES	ES	ES	ES	ES
	Sampling Date ~	27/05/2025	28/05/2025	27/05/2025	27/05/2025	27/05/2025	27/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	12.48	2.81	6.07	< 1.40	< 1.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	12.48	< 10.00	< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	12.48	< 10.00	< 10.00	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	12.48	< 10.00	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.5	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2	0.2	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.5	0.2	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Coronene	DETSC 3301*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	0.7	< 0.3	2.1	< 0.3	2.3

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

RECEIVED: 05/08/2025

			Lab No	2519572	2519573	2519574	2519575	2519576	2519577
			Sample ID ~	TP03	TP06	TP07	TP15	TP16	TP17
			Depth ~	1.00	0.50	0.50	0.50	0.50	0.50
			Other ID ~	2	1	1	1	1	1
			Sample Type ~	ES	ES	ES	ES	ES	ES
			Sampling Date ~	27/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	24	6.4	7.3	9.5	21	12
Metals									
Antimony	DETSC 2301*	1	mg/kg	< 1.0	7.2	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	2.7	1.6	1.2	1.1	1.6	3.0
Barium	DETSC 2301#	1.5	mg/kg	11	9.1	5.8	5.8	11	6.7
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.2	< 0.2	< 0.2	< 0.2	0.5	0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1	0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	5.5	4.6	1.8	1.9	1.4	2.0
Chromium III	DETSC 2301*	0.15	mg/kg	5.5	4.6	1.8	1.9	1.4	2.0
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	31	14	8.0	6.3	7.2	6.8
Lead	DETSC 2301#	0.3	mg/kg	10	15	17	14	19	63
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	2.8	1.8	1.3	0.7	0.4	1.6
Nickel	DETSC 2301#	1	mg/kg	3.3	3.4	2.0	1.4	1.5	1.4
Selenium	DETSC 2301#	0.5	mg/kg	0.7	< 0.5	< 0.5	0.6	0.6	1.3
Zinc	DETSC 2301#	1	mg/kg	22	56	9.8	9.2	5.2	37
Inorganics									
pH	DETSC 2008#		pH	7.6	6.4	7.1	6.5	7.0	6.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1	0.3	0.2	0.3	0.4	0.4
Total Organic Carbon	DETSC 2084#	0.5	%	1.7	1.8	1.9	3.0	8.7	4.6
Sulphide	DETSC 2024*	10	mg/kg	46	23	23	12	< 10	19
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.07	0.02	0.02	0.04	0.06	0.07
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	3.09	2.73	2.38	2.80	2.78	3.37
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	1.83	1.62	1.74	1.78	< 1.20	1.84
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	2.62
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.72
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	0.69	< 0.60	< 0.60	28.35

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

RECEIVED: 05/08/2025

			Lab No	2519572	2519573	2519574	2519575	2519576	2519577
			Sample ID ~	TP03	TP06	TP07	TP15	TP16	TP17
			Depth ~	1.00	0.50	0.50	0.50	0.50	0.50
			Other ID ~	2	1	1	1	1	1
			Sample Type ~	ES	ES	ES	ES	ES	ES
			Sampling Date ~	27/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	5.99	4.03	4.69	3.08	43.72
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	9.86
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	82.64
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	82.64
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	51.44
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Coronene	DETSC 3301*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	0.3	0.4	0.6

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Summary of Chemical Analysis
Leachate Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

	Lab No	2519578	2519579	2519580	2519581	2519582	2519583	2519584	2519585	2519586	2519587	2519588
	Sample ID ~	BH08	BH08	BH10	BH11	ETP01	ETP02	ETP02	ETP08	TP01	TP02	TP02
	Depth ~	0.50	1.00	0.50	0.50	0.50	0.50	1.00	0.50	0.50	0.50	1.00
	Other ID ~	1	2	1	1	1	1	2	1	1	1	2
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	28/05/2025	28/05/2025	26/05/2025	26/05/2025	27/05/2025	27/05/2025	27/05/2025	28/05/2025	27/05/2025	27/05/2025	27/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**									
Inorganics												
Un-Ionised Ammonia	*	0.02	mg/l	0.06	0.04	1.3	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	1.5	0.60	19	0.71	0.10	0.08	0.49	0.14	< 0.02	0.41	0.09

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Summary of Chemical Analysis
Leachate Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

				Lab No	2519589	2519590	2519591	2519592	2519593	2519594	2519595
				Sample ID ~	TP03	TP03	TP06	TP07	TP15	TP16	TP17
				Depth ~	0.50	1.00	0.50	0.50	0.50	0.50	0.50
				Other ID ~	1	2	1	1	1	1	1
				Sample Type ~	ES	ES	ES	ES	ES	ES	ES
				Sampling Date ~	27/05/2025	27/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**								
Inorganics											
Un-Ionised Ammonia	*	0.02	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	0.21	0.41	< 0.02	0.15	< 0.02	1.4	< 0.02

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Summary of Asbestos Analysis
Soil Samples

Our Ref 25-12718
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2519560	BH08 1 0.50	SOIL	NAD	none	Vicky Convery
2519561	BH08 2 1.00	SOIL	NAD	none	Vicky Convery
2519562	BH10 1 0.50	SOIL	NAD	none	Vicky Convery
2519563	BH11 1 0.50	SOIL	NAD	none	Vicky Convery
2519564	ETP01 1 0.50	SOIL	NAD	none	Vicky Convery
2519565	ETP02 1 0.50	SOIL	NAD	none	Vicky Convery
2519566	ETP02 2 1.00	SOIL	NAD	none	Vicky Convery
2519567	ETP08 1 0.50	SOIL	NAD	none	Vicky Convery
2519568	TP01 1 0.50	SOIL	NAD	none	Vicky Convery
2519569	TP02 1 0.50	SOIL	NAD	none	Vicky Convery
2519570	TP02 2 1.00	SOIL	NAD	none	Vicky Convery
2519571	TP03 1 0.50	SOIL	NAD	none	Vicky Convery
2519572	TP03 2 1.00	SOIL	NAD	none	Vicky Convery
2519573	TP06 1 0.50	SOIL	NAD	none	Vicky Convery
2519574	TP07 1 0.50	SOIL	NAD	none	Vicky Convery
2519575	TP15 1 0.50	SOIL	NAD	none	Vicky Convery
2519576	TP16 1 0.50	SOIL	NAD	none	Vicky Convery
2519577	TP17 1 0.50	SOIL	NAD	none	Vicky Convery

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH08 1 0.50

Sample Numbers 2519560 2519578
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	8.0	3	5	6
DETSC 2003# Loss On Ignition	%	15.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	27.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate) Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.3	0.01	0.5	2	25
DETSC 2306 Barium as Ba	53	0.5	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.5	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.8	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.015	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	13	0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.2	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.2	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.33	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.2	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	56	0.56	4	50	200
DETSC 2055 Chloride as Cl	2400	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	140	1.4	10	150	500
DETSC 2055 Sulphate as SO4	4300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	160000	1600	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	21000	210	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	8.1
DETSC 2009 Conductivity uS/cm	226.0
* Temperature*	19.0

Mass of Sample Kg	0.140
Mass of dry Sample Kg	0.099

Stage 1

Volume of Leachant L2	0.951
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH08 2 1.00

Sample Numbers 2519561 2519579
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.3	3	5	6
DETSC 2003# Loss On Ignition	%	6.6	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	11.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.6	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	45	0.5	20	100	300
DETSC 2306 Cadmium as Cd	0.032	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.77	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.4	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.017	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	7.9	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	4.3	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.26	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	57	0.57	4	50	200
DETSC 2055 Chloride as Cl	2400	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	170	1.7	10	150	500
DETSC 2055 Sulphate as SO4	3800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	110000	1100	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	17000	170	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	8.3
DETSC 2009 Conductivity uS/cm	156.0
* Temperature*	19.0

Mass of Sample Kg	0.130
Mass of dry Sample Kg	0.101

Stage 1

Volume of Leachant L2	0.977
Volume of Eluate VE1	0.9

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

Normec DETS

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH10 1 0.50

Sample Numbers 2519562 2519580
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.3	3	5	6
DETSC 2003# Loss On Ignition	%	3.4	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	11.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	23	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.3	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	9.3	0.09	2	50	100
DETSC 2306 Mercury as Hg	0.015	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	3	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.7	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.35	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.2	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	52	0.52	4	50	200
DETSC 2055 Chloride as Cl	2900	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	120	1.2	10	150	500
DETSC 2055 Sulphate as SO4	2800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	47000	470	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	21000	210	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	8.3
DETSC 2009 Conductivity uS/cm	67.5
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.095

Stage 1

Volume of Leachant L2	0.95
Volume of Eluate VE1	0.83

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH11 1 0.50
Sample Numbers 2519563 2519581
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.6	3	5	6
DETSC 2003# Loss On Ignition	%	3.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.83	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	28	0.3	20	100	300
DETSC 2306 Cadmium as Cd	0.03	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.76	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.1	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.017	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	14	0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.94	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.7	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.37	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.87	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	31	0.31	4	50	200
DETSC 2055 Chloride as Cl	2700	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	120	1.2	10	150	500
DETSC 2055 Sulphate as SO4	3600	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	100000	1000	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	12000	120	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.9
DETSC 2009 Conductivity uS/cm	149.0
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.093

Stage 1

Volume of Leachant L2	0.924
Volume of Eluate VE1	0.81

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP01 1 0.50
Sample Numbers 2519564 2519582
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.5	3	5	6
DETSC 2003# Loss On Ignition	%	3.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.5	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.97	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	57	0.6	20	100	300
DETSC 2306 Cadmium as Cd	0.036	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.4	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	13	0.13	2	50	100
DETSC 2306 Mercury as Hg	0.017	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.6	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3.2	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.31	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	220	2.2	4	50	200
DETSC 2055 Chloride as Cl	3100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	120	1.2	10	150	500
DETSC 2055 Sulphate as SO4	3000	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	34000	340	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	22000	220	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.9
DETSC 2009 Conductivity uS/cm	48.5
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.093

Stage 1

Volume of Leachant L2	0.922
Volume of Eluate VE1	0.81

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP02 1 0.50
Sample Numbers 2519565 2519583
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	45.0	3	5	6
DETSC 2003# Loss On Ignition	%	82.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	14.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.33	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	58	0.6	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	< 0.25	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	2.3	0.02	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	8.8	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.6	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.36	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	68	0.68	4	50	200
DETSC 2055 Chloride as Cl	1700	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	37000	370	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	71000	710	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	6100	61	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.5
DETSC 2009 Conductivity uS/cm	102.0
* Temperature*	19.0

Mass of Sample Kg	0.140
Mass of dry Sample Kg	0.054

Stage 1

Volume of Leachant L2	0.454
Volume of Eluate VE1	0.454

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP02 2 1.00
Sample Numbers 2519566 2519584
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.1	3	5	6
DETSC 2003# Loss On Ignition	%	3.7	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.9	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	18	0.2	20	100	300
DETSC 2306 Cadmium as Cd	0.2	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.72	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.7	0.05	2	50	100
DETSC 2306 Mercury as Hg	0.027	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	560	5.6	0.5	10	30
DETSC 2306 Nickel as Ni	0.59	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.64	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	1.4	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	4.1	0.04	0.1	0.5	7
DETSC 2306 Zinc as Zn	14	0.14	4	50	200
DETSC 2055 Chloride as Cl	1200	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	190	1.9	10	150	500
DETSC 2055 Sulphate as SO4	36000	360	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	120000	1200	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	12000	120	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.3
DETSC 2009 Conductivity uS/cm	176.0
* Temperature*	19.0

Mass of Sample Kg	0.120
Mass of dry Sample Kg	0.096

Stage 1

Volume of Leachant L2	0.932
Volume of Eluate VE1	0.83

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP08 1 0.50
Sample Numbers 2519567 2519585
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.1	3	5	6
DETSC 2003# Loss On Ignition	%	8.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	17.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.4	0.01	0.5	2	25
DETSC 2306 Barium as Ba	51	0.5	20	100	300
DETSC 2306 Cadmium as Cd	0.031	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.91	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	10	0.1	2	50	100
DETSC 2306 Mercury as Hg	0.02	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	6.2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.7	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.5	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.24	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.96	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	160	1.6	4	50	200
DETSC 2055 Chloride as Cl	1700	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	140	1.4	10	150	500
DETSC 2055 Sulphate as SO4	1500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	29000	290	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	19000	190	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.5
DETSC 2009 Conductivity uS/cm	41.0
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.098

Stage 1

Volume of Leachant L2	0.968
Volume of Eluate VE1	0.84

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP01 1 0.50

Sample Numbers 2519568 2519586
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.6	3	5	6
DETSC 2003# Loss On Ignition	%	1.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.53	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	33	0.3	20	100	300
DETSC 2306 Cadmium as Cd	0.031	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.2	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	8.9	0.09	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.8	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.69	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.4	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	110	1.1	4	50	200
DETSC 2055 Chloride as Cl	3900	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	1100	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	22000	220	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5000	50	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.3
DETSC 2009 Conductivity uS/cm	30.7
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.094

Stage 1

Volume of Leachant L2	0.932
Volume of Eluate VE1	0.81

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP02 1 0.50

Sample Numbers 2519569 2519587
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	36.0	3	5	6
DETSC 2003# Loss On Ignition	%	70.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	12.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.38	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	25	0.3	20	100	300
DETSC 2306 Cadmium as Cd	0.047	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.52	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	12	0.12	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	9	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.2	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.84	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.2	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.78	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	55	0.55	4	50	200
DETSC 2055 Chloride as Cl	4300	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	7300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	47000	470	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	17000	170	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.0
DETSC 2009 Conductivity uS/cm	67.5
* Temperature*	19.0

Mass of Sample Kg	0.140
Mass of dry Sample Kg	0.050

Stage 1

Volume of Leachant L2	0.411
Volume of Eluate VE1	0.35

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP02 2 1.00

Sample Numbers 2519570 2519588
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.6	3	5	6
DETSC 2003# Loss On Ignition	%	0.98	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	6.4	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.71	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	16	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.28	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.6	0.05	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	23	0.2	0.5	10	30
DETSC 2306 Nickel as Ni	0.54	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.31	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	1.1	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.41	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	9.1	0.09	4	50	200
DETSC 2055 Chloride as Cl	1200	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	140	1.4	10	150	500
DETSC 2055 Sulphate as SO4	9300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	74000	740	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	4500	< 50	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.7
DETSC 2009 Conductivity uS/cm	106.0
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.096

Stage 1

Volume of Leachant L2	0.943
Volume of Eluate VE1	0.87

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP03 1 0.50
Sample Numbers 2519571 2519589
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	41.0	3	5	6
DETSC 2003# Loss On Ignition	%	79.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.36	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	12	0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.038	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.36	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.8	0.08	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	18	0.2	0.5	10	30
DETSC 2306 Nickel as Ni	0.57	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.72	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.29	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.73	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	23	0.23	4	50	200
DETSC 2055 Chloride as Cl	5100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	13000	130	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	56000	560	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	9700	97	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	80.0
* Temperature*	19.0

Mass of Sample Kg	0.140
Mass of dry Sample Kg	0.061

Stage 1

Volume of Leachant L2	0.526
Volume of Eluate VE1	0.475

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP03 2 1.00

Sample Numbers 2519572 2519590
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.7	3	5	6
DETSC 2003# Loss On Ignition	%	3.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.6	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	1.4	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.2	0.01	0.5	2	25
DETSC 2306 Barium as Ba	66	0.7	20	100	300
DETSC 2306 Cadmium as Cd	0.066	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.66	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	9.3	0.09	2	50	100
DETSC 2306 Mercury as Hg	0.019	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	98	1	0.5	10	30
DETSC 2306 Nickel as Ni	0.7	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.65	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.83	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.9	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	91	0.91	4	50	200
DETSC 2055 Chloride as Cl	2500	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	200	2	10	150	500
DETSC 2055 Sulphate as SO4	33000	330	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	41000	410	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	11000	110	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.7
DETSC 2009 Conductivity uS/cm	58.3
* Temperature*	19.0

Mass of Sample Kg	0.130
Mass of dry Sample Kg	0.098

Stage 1

Volume of Leachant L2	0.95
Volume of Eluate VE1	0.825

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP06 1 0.50

Sample Numbers 2519573 2519591
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.8	3	5	6
DETSC 2003# Loss On Ignition	%	3.7	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	10.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.67	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	20	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.1	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.6	0.08	2	50	100
DETSC 2306 Mercury as Hg	0.01	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	9.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.88	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.9	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.22	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.79	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	72	0.72	4	50	200
DETSC 2055 Chloride as Cl	2200	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	35000	350	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	15000	150	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.5
DETSC 2009 Conductivity uS/cm	49.6
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.094

Stage 1

Volume of Leachant L2	0.929
Volume of Eluate VE1	0.83

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP07 1 0.50
Sample Numbers 2519574 2519592
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.9	3	5	6
DETSC 2003# Loss On Ignition	%	3.8	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	20	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.98	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	8.1	0.08	2	50	100
DETSC 2306 Mercury as Hg	0.016	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.98	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3.4	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.28	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	45	0.45	4	50	200
DETSC 2055 Chloride as Cl	1400	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	1900	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	38000	380	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	16000	160	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	54.2
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.093

Stage 1

Volume of Leachant L2	0.919
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP15 1 0.50
Sample Numbers 2519575 2519593
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.0	3	5	6
DETSC 2003# Loss On Ignition	%	5.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.5	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.52	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	42	0.4	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.89	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.7	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.011	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.5	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.68	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.8	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.49	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	170	1.7	4	50	200
DETSC 2055 Chloride as Cl	2200	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	1800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	27000	270	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	16000	160	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	39.2
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.100

Stage 1

Volume of Leachant L2	0.985
Volume of Eluate VE1	0.75

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP16 1 0.50
Sample Numbers 2519576 2519594
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	8.7	3	5	6
DETSC 2003# Loss On Ignition	%	15.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	72	0.7	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.73	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.4	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.036	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.2	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.4	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.21	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.92	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	92	0.92	4	50	200
DETSC 2055 Chloride as Cl	5600	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	130	1.3	10	150	500
DETSC 2055 Sulphate as SO4	2500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	75000	750	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	18000	180	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.8
DETSC 2009 Conductivity uS/cm	107.0
* Temperature*	19.0

Mass of Sample Kg	0.130
Mass of dry Sample Kg	0.102

Stage 1

Volume of Leachant L2	0.997
Volume of Eluate VE1	0.81

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12718
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP17 1 0.50
Sample Numbers 2519577 2519595
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	4.6	3	5	6
DETSC 2003# Loss On Ignition	%	9.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	91.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.88	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	15	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.86	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	13	0.13	2	50	100
DETSC 2306 Mercury as Hg	0.012	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.6	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.7	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.19	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.93	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	27	0.27	4	50	200
DETSC 2055 Chloride as Cl	3100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	3100	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	140000	1400	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	24000	240	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.1
DETSC 2009 Conductivity uS/cm	207.0
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.097

Stage 1

Volume of Leachant L2	0.957
Volume of Eluate VE1	0.81

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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Information in Support of the Analytical Results

Our Ref 25-12718
Client Ref ~ 24-0211
Contract ~ Kingston Lands Galway

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2519560	BH08 0.50 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519561	BH08 1.00 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519562	BH10 0.50 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519563	BH11 0.50 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519564	ETP01 0.50 SOIL	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519565	ETP02 0.50 SOIL	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519566	ETP02 1.00 SOIL	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519567	ETP08 0.50 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519568	TP01 0.50 SOIL	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519569	TP02 0.50 SOIL	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519570	TP02 1.00 SOIL	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519571	TP03 0.50 SOIL	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519572	TP03 1.00 SOIL	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519573	TP06 0.50 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519574	TP07 0.50 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519575	TP15 0.50 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519576	TP16 0.50 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519577	TP17 0.50 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519578	BH08 0.50 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519579	BH08 1.00 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519580	BH10 0.50 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2519581	BH11 0.50 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2519582	ETP01 0.50 LEACHATE	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519583	ETP02 0.50 LEACHATE	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	

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Information in Support of the Analytical Results

Our Ref 25-12718
Client Ref ~ 24-0211
Contract ~ Kingston Lands Galway

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2519584	ETP02 1.00 LEACHATE	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519585	ETP08 0.50 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519586	TP01 0.50 LEACHATE	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519587	TP02 0.50 LEACHATE	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519588	TP02 1.00 LEACHATE	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519589	TP03 0.50 LEACHATE	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519590	TP03 1.00 LEACHATE	27/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519591	TP06 0.50 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519592	TP07 0.50 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519593	TP15 0.50 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519594	TP16 0.50 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	
2519595	TP17 0.50 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	

Lab No	Sample ID	Comments
2519580	BH10 0.50 LEAC	Insufficient sample 1959g (<2kg) Sample received
2519587	TP02 0.50 LEAC	Insufficient sample 1916g (<2kg) Sample received
2519589	TP03 0.50 LEAC	Insufficient sample 1197g (<2kg) Sample received
2519590	TP03 1.00 LEAC	Insufficient sample 1917g (<2kg) Sample received

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic >EC40-EC44	EH_2D_AL
Aliphatic C5-C44	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic >EC40-EC44	EH_2D_AR
Aromatic C5-C44	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C44	EH_2D+HS_1D_Total
EPH >C24-C40	EH_2D_Total
Mineral Oil >C10-C40 + Clean Up	EH_CU_2D_Total

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Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 25.03.07

Certificate of Analysis

RECEIVED: 05/08/2026

Certificate Number 25-12719 *Issued:* 25-Jun-25

Client Causeway Geotech
Unit 1 Fingal House
Stephenstown Industrial Estate
Balbriggan
Co. Dublin
K32 VR66

Our Reference 25-12719

Client Reference ~ 24-0211

Order No ~ (not supplied)

Contract Title ~ Kingston Lands Galway

Description 16 Soil samples, 16 Leachate prepared by DETS samples.

Date Received 06-Jun-25

Date Started 06-Jun-25

Date Completed 25-Jun-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Reyhan Irfan
Operations Manager

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Sample Deviations present. See Deviation Table Section for details.

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

	Lab No	2519596	2519597	2519598	2519599	2519600	2519601	2519602
	Sample ID ~	BH03	BH04	BH05	BH07	BH12	BH14	BH17
	Depth ~	1.00	0.50	1.00	1.00	0.50	1.00	1.00
	Other ID ~							
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	01/06/2025	01/06/2025	01/06/2025	01/06/2025	31/05/2025	31/05/2025	31/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	11	9.7	12	67	5.8	14	7.7
Metals									
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	1.7	< 0.2	1.7	1.0	1.8	2.8	2.1
Barium	DETSC 2301#	1.5	mg/kg	9.4	< 1.5	10	6.2	9.0	12	9.5
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	< 0.2	< 0.2	0.4	1.2	< 0.2	0.3	0.2
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	< 0.1	0.1	0.4	0.1	0.3	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	3.8	< 0.15	4.7	1.6	4.5	4.1	7.5
Chromium III	DETSC 2301*	0.15	mg/kg	3.8	< 0.15	4.7	1.6	4.5	4.1	7.5
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	19	< 0.2	10	39	14	16	26
Lead	DETSC 2301#	0.3	mg/kg	17	0.5	11	9.0	17	60	15
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	0.8	< 0.4	0.7	11	0.6	3.7	2.6
Nickel	DETSC 2301#	1	mg/kg	3.0	< 1.0	3.9	1.7	4.1	2.5	4.5
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	0.6	1.5	< 0.5	0.8	< 0.5
Zinc	DETSC 2301#	1	mg/kg	16	< 1.0	22	9.2	33	24	26
Inorganics									
pH	DETSC 2008#		pH	8.1	8.3	8.3	6.1	8.3	7.0	6.7
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	0.2	0.5	< 0.1	0.3	0.3
Total Organic Carbon	DETSC 2084#	0.5	%	1.2	1.2	3.1	39	1.3	2.7	1.9
Sulphide	DETSC 2024*	10	mg/kg	< 10	< 10	< 10	54	12	23	12
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.05	0.02	0.01	0.08	0.06	0.07	0.21
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	1.79	< 1.50	< 1.50	< 1.50	1.66	< 1.50	1.72
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	< 0.60	< 0.60	1.65	< 0.60	< 0.60

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

				Lab No	2519596	2519597	2519598	2519599	2519600	2519601	2519602
				Sample ID ~	BH03	BH04	BH05	BH07	BH12	BH14	BH17
				Depth ~	1.00	0.50	1.00	1.00	0.50	1.00	1.00
				Other ID ~							
				Sample Type ~	ES	ES	ES	ES	ES	ES	ES
				Sampling Date ~	01/06/2025	01/06/2025	01/06/2025	01/06/2025	31/05/2025	31/05/2025	31/05/2025
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**								
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg		< 1.40	< 1.40	< 1.40	< 1.40	120.1	< 1.40	< 1.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg		< 1.40	< 1.40	< 1.40	< 1.40	140.5	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg		< 1.40	< 1.40	< 1.40	< 1.40	27.35	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg		< 10.00	< 10.00	< 10.00	< 10.00	289.6	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg		< 10.00	< 10.00	< 10.00	< 10.00	289.6	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg		< 10.00	< 10.00	< 10.00	< 10.00	257.3	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs											
Naphthalene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Coronene	DETSC 3301*	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs											
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols											
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		< 0.3	< 0.3	< 0.3	3.1	< 0.3	0.5	0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

RECEIVED: 05/08/2025

	Lab No	2519603	2519604	2519605	2519606	2519607	2519608	2519609
	Sample ID ~	ETP05	ETP07	ETP07	ETP09	ETP10	ETP11	TP18
	Depth ~	0.50	0.50	1.00	0.50	1.00	0.50	0.50
	Other ID ~							
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Preparation								
Moisture Content	DETSC 1004	0.1	%	10	27	35	12	5.5	5.9	8.3
Metals								
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	2.5	4.2	4.0	5.0	0.2	2.3	2.6
Barium	DETSC 2301#	1.5	mg/kg	17	24	23	28	< 1.5	16	6.5
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	< 0.2	1.1	1.7	0.4	0.3	0.3	0.3
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	0.5	0.5	0.6	< 0.1	0.3	0.2
Chromium	DETSC 2301#	0.15	mg/kg	7.0	3.4	3.9	7.4	< 0.15	3.8	5.4
Chromium III	DETSC 2301*	0.15	mg/kg	7.0	3.4	3.9	7.4	< 0.15	3.8	5.4
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	9.3	34	32	30	< 0.2	15	22
Lead	DETSC 2301#	0.3	mg/kg	23	27	25	140	0.6	49	59
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.08	0.07	0.06	< 0.05	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	1.4	7.1	6.4	7.2	< 0.4	1.8	4.4
Nickel	DETSC 2301#	1	mg/kg	6.4	2.9	2.9	5.0	< 1.0	3.6	3.0
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	1.1	1.1	0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	36	59	63	46	< 1.0	28	18
Inorganics								
pH	DETSC 2008#		pH	6.4	6.9	6.8	6.3	7.0	8.0	7.3
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1	0.4	0.5	0.2	0.1	< 0.1	0.1
Total Organic Carbon	DETSC 2084#	0.5	%	1.3	13	12	2.9	1.4	1.4	1.5
Sulphide	DETSC 2024*	10	mg/kg	15	35	54	19	19	19	12
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.02	0.02	0.05	0.22	0.22	0.11	0.15
Petroleum Hydrocarbons								
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.06	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	0.03	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	1.84	2.13	< 1.50	< 1.50	1.63	< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	2.81

Normec DETS

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

			Lab No	2519603	2519604	2519605	2519606	2519607	2519608	2519609
			Sample ID ~	ETP05	ETP07	ETP07	ETP09	ETP10	ETP11	TP18
			Depth ~	0.50	0.50	1.00	0.50	1.00	0.50	0.50
			Other ID ~							
			Sample Type ~	ES	ES	ES	ES	ES	ES	ES
			Sampling Date ~	30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	3.25	11.67	< 1.40	< 1.40	< 1.40	2.42
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	21.53	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	33.20	< 10.00	< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	33.20	< 10.00	< 10.00	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	33.20	< 10.00	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Coronene	DETSC 3301*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs										
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	1.1	1.4	0.7	< 0.3	< 0.3	< 0.3

RECEIVED: 05/08/2026

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

			Lab No	2519610	2519611
			Sample ID ~	TP19	TP20
			Depth ~	0.50	0.50
			Other ID ~		
			Sample Type ~	ES	ES
			Sampling Date ~	30/05/2025	28/05/2025
			Sampling Time ~	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Preparation					
Moisture Content	DETSC 1004	0.1	%	4.1	6.0
Metals					
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	1.2	2.6
Barium	DETSC 2301#	1.5	mg/kg	7.0	8.7
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	< 0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	0.2
Chromium	DETSC 2301#	0.15	mg/kg	2.0	3.5
Chromium III	DETSC 2301*	0.15	mg/kg	2.0	3.5
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	8.4	31
Lead	DETSC 2301#	0.3	mg/kg	14	110
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	1.9	3.1
Nickel	DETSC 2301#	1	mg/kg	1.7	2.7
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	18	24
Inorganics					
pH	DETSC 2008#		pH	7.3	6.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.1
Total Organic Carbon	DETSC 2084#	0.5	%	0.9	1.3
Sulphide	DETSC 2024*	10	mg/kg	15	12
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.03	0.05
Petroleum Hydrocarbons					
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	1.76	1.97
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	1.63

Normec DETS

RECEIVED: 05/08/2026

Summary of Chemical Analysis
Soil Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

			Lab No	2519610	2519611
			Sample ID ~	TP19	TP20
			Depth ~	0.50	0.50
			Other ID ~		
			Sample Type ~	ES	ES
			Sampling Date ~	30/05/2025	28/05/2025
			Sampling Time ~	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	3.74
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01
PAHs					
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Coronene	DETSC 3301*	0.1	mg/kg	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6
PCBs					
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01
Phenols					
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3

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Summary of Chemical Analysis
Leachate Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

	Lab No	2519612	2519613	2519614	2519615	2519616	2519617	2519618	2519619	2519620	2519621	2519622
	Sample ID ~	BH03	BH04	BH05	BH07	BH12	BH14	BH17	ETP05	ETP07	ETP07	ETP09
	Depth ~	1.00	0.50	1.00	1.00	0.50	1.00	1.00	0.50	0.50	1.00	0.50
	Other ID ~											
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	01/06/2025	01/06/2025	01/06/2025	01/06/2025	31/05/2025	31/05/2025	31/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**									
Inorganics												
Un-Ionised Ammonia	*	0.02	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	0.22	< 0.02	0.94	0.60	< 0.02	0.06	< 0.02	< 0.02	1.6	2.0	0.05

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Summary of Chemical Analysis
Leachate Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

	Lab No	2519623	2519624	2519625	2519626	2519627
	Sample ID ~	ETP10	ETP11	TP18	TP19	TP20
	Depth ~	1.00	0.50	0.50	0.50	0.50
	Other ID ~					
	Sample Type ~	ES	ES	ES	ES	ES
	Sampling Date ~	30/05/2025	30/05/2025	30/05/2025	30/05/2025	28/05/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Inorganics								
Un-Ionised Ammonia	*	0.02	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-12719
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands Galway

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Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2519596	BH03 1.00	SOIL	NAD	none	Ben Barsby
2519597	BH04 0.50	SOIL	NAD	none	Ben Barsby
2519598	BH05 1.00	SOIL	NAD	none	Ben Barsby
2519599	BH07 1.00	SOIL	NAD	none	Ben Barsby
2519600	BH12 0.50	SOIL	NAD	none	Ben Barsby
2519601	BH14 1.00	SOIL	NAD	none	Ben Barsby
2519602	BH17 1.00	SOIL	NAD	none	Ben Barsby
2519603	ETP05 0.50	SOIL	NAD	none	Ben Barsby
2519604	ETP07 0.50	SOIL	NAD	none	Ben Barsby
2519605	ETP07 1.00	SOIL	NAD	none	Ben Barsby
2519606	ETP09 0.50	SOIL	NAD	none	Ben Barsby
2519607	ETP10 1.00	SOIL	NAD	none	Ben Barsby
2519608	ETP11 0.50	SOIL	NAD	none	Ben Barsby
2519609	TP18 0.50	SOIL	NAD	none	Ben Barsby
2519610	TP19 0.50	SOIL	NAD	none	Ben Barsby
2519611	TP20 0.50	SOIL	NAD	none	Ben Barsby

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

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Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH03 1.00
Sample Numbers 2519596 2519612
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.2	3	5	6
DETSC 2003# Loss On Ignition	%	2.2	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.55	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	35	0.4	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.59	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.2	0.05	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	9.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.3	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.2	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.6	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	42	0.42	4	50	200
DETSC 2055 Chloride as Cl	1500	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	300	3	10	150	500
DETSC 2055 Sulphate as SO4	2800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	84000	840	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	9100	91	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.8
DETSC 2009 Conductivity uS/cm	120.0
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.098

Stage 1

Volume of Leachant L2	0.97
Volume of Eluate VE1	0.83

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH04 0.50
Sample Numbers 2519597 2519613
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.2	3	5	6
DETSC 2003# Loss On Ignition	%	2.1	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.78	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	55	0.6	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.8	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5	0.05	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	6.6	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.97	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.92	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.36	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.92	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	67	0.67	4	50	200
DETSC 2055 Chloride as Cl	2700	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	320	3.2	10	150	500
DETSC 2055 Sulphate as SO4	4100	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	88000	880	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	13000	130	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.7
DETSC 2009 Conductivity uS/cm	126.0
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.099

Stage 1

Volume of Leachant L2	0.982
Volume of Eluate VE1	0.83

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

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Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH05 1.00
Sample Numbers 2519598 2519614
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.1	3	5	6
DETSC 2003# Loss On Ignition	%	5.6	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.4	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	20	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.28	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	2	0.02	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	3.9	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.21	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	< 0.25	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	31	0.31	4	50	200
DETSC 2055 Chloride as Cl	4200	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	190	1.9	10	150	500
DETSC 2055 Sulphate as SO4	32000	320	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	160000	1600	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	15000	150	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.7
DETSC 2009 Conductivity uS/cm	232.0
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.097

Stage 1

Volume of Leachant L2	0.952
Volume of Eluate VE1	0.85

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH07 1.00
Sample Numbers 2519599 2519615
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	39.0	3	5	6
DETSC 2003# Loss On Ignition	%	72.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.54	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	47	0.5	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	< 0.25	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	3.4	0.03	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	4.8	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.42	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.28	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.76	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	56	0.56	4	50	200
DETSC 2055 Chloride as Cl	4400	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	39000	390	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	92000	920	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	7100	71	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.3
DETSC 2009 Conductivity uS/cm	132.0
* Temperature*	19.0

Mass of Sample Kg	0.140
Mass of dry Sample Kg	0.046

Stage 1

Volume of Leachant L2	0.363
Volume of Eluate VE1	0.363

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH12 0.50
Sample Numbers 2519600 2519616
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.3	3	5	6
DETSC 2003# Loss On Ignition	%	3.6	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	260.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	32	0.3	20	100	300
DETSC 2306 Cadmium as Cd	0.13	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	2.6	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	14	0.14	2	50	100
DETSC 2306 Mercury as Hg	0.052	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	5.5	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	8	0.08	0.5	10	50
DETSC 2306 Antimony as Sb	0.21	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	80	0.8	4	50	200
DETSC 2055 Chloride as Cl	2300	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	350	3.5	10	150	500
DETSC 2055 Sulphate as SO4	3800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	83000	830	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	6500	65	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.5
DETSC 2009 Conductivity uS/cm	118.0
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.094

Stage 1

Volume of Leachant L2	0.937
Volume of Eluate VE1	0.85

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH14 1.00

Sample Numbers 2519601 2519617
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.7	3	5	6
DETSC 2003# Loss On Ignition	%	4.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate) Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.61	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	9.9	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.036	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.4	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	11	0.11	2	50	100
DETSC 2306 Mercury as Hg	0.011	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.3	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.3	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3.7	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.65	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	18	0.18	4	50	200
DETSC 2055 Chloride as Cl	4300	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	27000	270	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	78000	780	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	16000	160	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.1
DETSC 2009 Conductivity uS/cm	111.0
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.094

Stage 1

Volume of Leachant L2	0.927
Volume of Eluate VE1	0.71

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id BH17 1.00

Sample Numbers 2519602 2519618
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.9	3	5	6
DETSC 2003# Loss On Ignition	%	3.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.7	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.63	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	2.9	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.7	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.1	0.06	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.3	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.67	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	8.1	0.08	4	50	200
DETSC 2055 Chloride as Cl	2400	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	5600	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	33000	330	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	14000	140	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	46.7
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.092

Stage 1

Volume of Leachant L2	0.916
Volume of Eluate VE1	0.87

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP05 0.50

Sample Numbers 2519603 2519619
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.3	3	5	6
DETSC 2003# Loss On Ignition	%	2.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.75	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	3.4	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.031	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	2.3	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.2	0.06	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.3	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3.3	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.77	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	4.3	0.04	4	50	200
DETSC 2055 Chloride as Cl	2100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2200	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	21000	210	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	10000	100	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.4
DETSC 2009 Conductivity uS/cm	29.9
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.099

Stage 1

Volume of Leachant L2	0.978
Volume of Eluate VE1	0.81

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP07 0.50

Sample Numbers 2519604 2519620
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	13.0	3	5	6
DETSC 2003# Loss On Ignition	%	24.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	150	1.5	20	100	300
DETSC 2306 Cadmium as Cd	0.055	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.77	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	9.8	0.1	2	50	100
DETSC 2306 Mercury as Hg	0.015	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	30	0.3	0.5	10	30
DETSC 2306 Nickel as Ni	1.3	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	6.6	0.07	0.5	10	50
DETSC 2306 Antimony as Sb	0.36	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.2	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	290	2.9	4	50	200
DETSC 2055 Chloride as Cl	4300	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	9500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	120000	1200	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	17000	170	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.4
DETSC 2009 Conductivity uS/cm	171.0
* Temperature*	19.0

Mass of Sample Kg	0.140
Mass of dry Sample Kg	0.102

Stage 1

Volume of Leachant L2	0.977
Volume of Eluate VE1	0.75

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP07 1.00

Sample Numbers 2519605 2519621
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	12.0	3	5	6
DETSC 2003# Loss On Ignition	%	26.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	33.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	44	0.4	20	100	300
DETSC 2306 Cadmium as Cd	0.053	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.62	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.4	0.07	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	26	0.3	0.5	10	30
DETSC 2306 Nickel as Ni	1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	4	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.43	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.82	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	55	0.55	4	50	200
DETSC 2055 Chloride as Cl	3100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	40000	400	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	170000	1700	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	16000	160	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.3
DETSC 2009 Conductivity uS/cm	241.0
* Temperature*	19.0

Mass of Sample Kg	0.140
Mass of dry Sample Kg	0.092

Stage 1

Volume of Leachant L2	0.867
Volume of Eluate VE1	0.603

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP09 0.50

Sample Numbers 2519606 2519622
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.9	3	5	6
DETSC 2003# Loss On Ignition	%	5.2	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.88	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	7.1	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.31	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	3.9	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	14	0.14	2	50	100
DETSC 2306 Mercury as Hg	0.018	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	3.8	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.7	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	12	0.12	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	30	0.3	4	50	200
DETSC 2055 Chloride as Cl	4400	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	7600	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	40000	400	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	9100	91	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	56.6
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.097

Stage 1

Volume of Leachant L2	0.954
Volume of Eluate VE1	0.87

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP10 1.00

Sample Numbers 2519607 2519623
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.4	3	5	6
DETSC 2003# Loss On Ignition	%	2.3	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.6	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	3.6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.17	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.2	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	9.9	0.1	2	50	100
DETSC 2306 Mercury as Hg	0.015	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.6	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.87	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	4.4	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.24	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.62	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	11	0.11	4	50	200
DETSC 2055 Chloride as Cl	1900	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	150	1.5	10	150	500
DETSC 2055 Sulphate as SO4	2700	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	27000	270	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	13000	130	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	37.8
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.094

Stage 1

Volume of Leachant L2	0.939
Volume of Eluate VE1	0.87

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id ETP11 0.50

Sample Numbers 2519608 2519624
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.4	3	5	6
DETSC 2003# Loss On Ignition	%	2.6	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.5	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	51	0.5	20	100	300
DETSC 2306 Cadmium as Cd	0.034	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.28	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.3	0.07	2	50	100
DETSC 2306 Mercury as Hg	0.025	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.9	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.1	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.29	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.84	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	110	1.1	4	50	200
DETSC 2055 Chloride as Cl	1800	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	230	2.3	10	150	500
DETSC 2055 Sulphate as SO4	1500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	69000	690	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	12000	120	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.4
DETSC 2009 Conductivity uS/cm	99.0
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.094

Stage 1

Volume of Leachant L2	0.936
Volume of Eluate VE1	0.85

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP18 0.50

Sample Numbers 2519609 2519625
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.5	3	5	6
DETSC 2003# Loss On Ignition	%	2.6	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.6	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	6.3	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.068	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	13	0.1	0.5	10	70
DETSC 2306 Copper as Cu	14	0.14	2	50	100
DETSC 2306 Mercury as Hg	0.01	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	3.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.64	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	7.3	0.07	0.5	10	50
DETSC 2306 Antimony as Sb	0.19	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.58	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	16	0.16	4	50	200
DETSC 2055 Chloride as Cl	1600	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	110	1.1	10	150	500
DETSC 2055 Sulphate as SO4	5300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	33000	330	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	7800	78	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	46.5
* Temperature*	19.0

Mass of Sample Kg	0.110
Mass of dry Sample Kg	0.101

Stage 1

Volume of Leachant L2	1
Volume of Eluate VE1	0.87

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP19 0.50
Sample Numbers 2519610 2519626
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.9	3	5	6
DETSC 2003# Loss On Ignition	%	1.3	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.6	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	2.2	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.048	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.7	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.4	0.07	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.77	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.9	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.5	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	4.7	0.05	4	50	200
DETSC 2055 Chloride as Cl	1900	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	1500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	15000	150	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	6900	69	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.4
DETSC 2009 Conductivity uS/cm	21.3
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.096

Stage 1

Volume of Leachant L2	0.955
Volume of Eluate VE1	0.83

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-12719
Client Ref 24-0211
Contract Title Kingston Lands Galway
Sample Id TP20 0.50

Sample Numbers 2519611 2519627
Date Analysed 25/06/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.3	3	5	6
DETSC 2003# Loss On Ignition	%	2.7	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.78	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	2.2	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.13	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.6	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	31	0.31	2	50	100
DETSC 2306 Mercury as Hg	0.011	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	4	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.88	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	21	0.21	0.5	10	50
DETSC 2306 Antimony as Sb	0.25	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.89	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	5.3	0.05	4	50	200
DETSC 2055 Chloride as Cl	1200	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	200	2	10	150	500
DETSC 2055 Sulphate as SO4	1400	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	18000	180	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	9800	98	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	9.0
DETSC 2009 Conductivity uS/cm	26.3
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.094

Stage 1

Volume of Leachant L2	0.935
Volume of Eluate VE1	0.83

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

RECEIVED: 05/08/2026

Information in Support of the Analytical Results

Our Ref 25-12719
Client Ref ~ 24-0211
Contract ~ Kingston Lands Galway

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2519596	BH03 1.00 SOIL	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519597	BH04 0.50 SOIL	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519598	BH05 1.00 SOIL	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519599	BH07 1.00 SOIL	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519600	BH12 0.50 SOIL	31/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519601	BH14 1.00 SOIL	31/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519602	BH17 1.00 SOIL	31/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519603	ETP05 0.50 SOIL	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519604	ETP07 0.50 SOIL	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519605	ETP07 1.00 SOIL	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519606	ETP09 0.50 SOIL	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519607	ETP10 1.00 SOIL	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519608	ETP11 0.50 SOIL	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519609	TP18 0.50 SOIL	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519610	TP19 0.50 SOIL	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519611	TP20 0.50 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2519612	BH03 1.00 LEACHATE	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519613	BH04 0.50 LEACHATE	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519614	BH05 1.00 LEACHATE	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519615	BH07 1.00 LEACHATE	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519616	BH12 0.50 LEACHATE	31/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519617	BH14 1.00 LEACHATE	31/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519618	BH17 1.00 LEACHATE	31/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519619	ETP05 0.50 LEACHATE	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519620	ETP07 0.50 LEACHATE	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		

RECEIVED: 05/08/2026

Information in Support of the Analytical Results

Our Ref 25-12719
Client Ref ~ 24-0211
Contract ~ Kingston Lands Galway

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2519621	ETP07 1.00 LEACHATE	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519622	ETP09 0.50 LEACHATE	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519623	ETP10 1.00 LEACHATE	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519624	ETP11 0.50 LEACHATE	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519625	TP18 0.50 LEACHATE	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519626	TP19 0.50 LEACHATE	30/05/25	GJ 250ml, GJ 60ml, PT 1L x2		
2519627	TP20 0.50 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days)	

Lab No	Sample ID	Comments
2519612	BH03 1.00 LEAC	Insufficient sample 1732g (<2kg) Sample received
2519615	BH07 1.00 LEAC	Insufficient sample 976.0g (<2kg) Sample received
2519621	ETP07 1.00 LEA	Insufficient sample 1869g (<2kg) Sample received

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

RECEIVED: 05/08/2026

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic >EC40-EC44	EH_2D_AL
Aliphatic C5-C44	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic >EC40-EC44	EH_2D_AR
Aromatic C5-C44	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C44	EH_2D+HS_1D_Total
EPH >C24-C40	EH_2D_Total
Mineral Oil >C10-C40 + Clean Up	EH_CU_2D_Total

RECEIVED: 05/08/2026

Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 25.03.07

Certificate of Analysis

RECEIVED: 05/08/2026

Certificate Number 25-14422 *Issued:* 07-Jul-25

Client Causeway Geotech
Unit 1 Fingal House
Stephenstown Industrial Estate
Balbriggan
Co. Dublin
K32 VR66

Our Reference 25-14422

Client Reference ~ 24-0211

Order No ~ (not supplied)

Contract Title ~ Kingston Lands

Description 26 Soil samples, 26 Leachate prepared by DETS samples.

Date Received 25-Jun-25

Date Started 25-Jun-25

Date Completed 07-Jul-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Reyhan Irfan
Operations Manager

2139

Sample Deviations present. See Deviation Table Section for details.

Normec DETS

RECEIVED: 05/08/2025

Summary of Chemical Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

	Lab No	2528912	2528913	2528914	2528915	2528916	2528917	2528918
	Sample ID ~	BH24	SL01	SL02	SL03	SL04	SL05	SL06
	Depth ~	1.00	0.85	1.20	1.15	1.40	1.40	0.80
	Other ID ~							
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	29/05/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Preparation								
Moisture Content	DETSC 1004	0.1	%	8.3	17	16	24	76	13	63
Metals								
Antimony	DETSC 2301*	1	mg/kg	1.8	1.5	1.9	1.7	< 1.0	< 1.0	1.1
Arsenic	DETSC 2301#	0.2	mg/kg	2.4	4.0	3.4	4.2	2.3	1.4	3.7
Barium	DETSC 2301#	1.5	mg/kg	1.7	32	31	20	14	8.9	12
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	< 0.2	0.2	0.5	0.7	< 0.2	< 0.2	0.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.8	0.8	1.0	0.9	1.0	0.1	0.8
Chromium	DETSC 2301#	0.15	mg/kg	29	24	36	27	5.4	4.2	17
Chromium III	DETSC 2301*	0.15	mg/kg	29	24	36	27	5.4	4.2	17
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	35	36	43	48	72	11	93
Lead	DETSC 2301#	0.3	mg/kg	46	63	54	57	3.8	22	45
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.07	< 0.05	0.05	< 0.05	< 0.05	0.09
Molybdenum	DETSC 2301#	0.4	mg/kg	2.6	1.8	2.6	2.6	1.7	0.7	4.0
Nickel	DETSC 2301#	1	mg/kg	15	15	18	15	2.4	2.8	9.1
Selenium	DETSC 2301#	0.5	mg/kg	0.9	1.1	1.7	1.2	3.6	< 0.5	3.0
Zinc	DETSC 2301#	1	mg/kg	5.8	21	9.0	12	2.4	25	1.1
Inorganics								
pH	DETSC 2008#		pH	8.2	8.0	6.3	6.2	6.9	7.9	6.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.4	0.7	0.9	0.6	0.3	0.7
Total Organic Carbon	DETSC 2084#	0.5	%	0.7	3.6	4.4	7.1	33	3.2	26
Sulphide	DETSC 2024*	10	mg/kg	< 10	< 10	< 10	12	32	< 10	< 10
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.01	0.05	0.05	0.08	0.24	0.03	0.15
Petroleum Hydrocarbons								
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60

Summary of Chemical Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

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	Lab No	2528912	2528913	2528914	2528915	2528916	2528917	2528918
	Sample ID ~	BH24	SL01	SL02	SL03	SL04	SL05	SL06
	Depth ~	1.00	0.85	1.20	1.15	1.40	1.40	0.80
	Other ID ~							
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	29/05/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	< 1.40	3.24	2.18	6.23	5.26	< 1.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.66
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	0.53	< 0.10	1.4	0.66	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene	DETSC 3301*	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs										
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	0.7	0.9	1.5	7.5	1.1	7.0

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

	Lab No	2528919	2528920	2528921	2528922	2528923	2528924	2528925
	Sample ID ~	SL06	SL07	SL07	SL08	SL08	SL09	SL09
	Depth ~	1.60	1.00	2.00	1.00	2.00	1.00	2.00
	Other ID ~							
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Preparation								
Moisture Content	DETSC 1004	0.1	%	11	21	17	15	14	53	40
Metals								
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	0.9	2.1	2.2	1.5	2.2	2.0	2.7
Barium	DETSC 2301#	1.5	mg/kg	9.9	13	10	8.8	4.7	19	13
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.2	0.2	< 0.1	0.3	0.3	0.4
Chromium	DETSC 2301#	0.15	mg/kg	4.4	5.9	3.6	3.8	9.1	7.6	11
Chromium III	DETSC 2301*	0.15	mg/kg	4.4	5.9	3.6	3.8	9.1	7.6	11
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	12	16	18	13	29	36	29
Lead	DETSC 2301#	0.3	mg/kg	9.5	29	30	31	32	20	30
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	1.0	2.3	1.0	2.0	1.7	3.4	2.6
Nickel	DETSC 2301#	1	mg/kg	2.7	4.3	3.4	3.0	5.6	5.4	7.4
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	0.7	0.6	< 0.5	0.9	1.0	0.9
Zinc	DETSC 2301#	1	mg/kg	13	21	20	19	1.8	37	27
Inorganics								
pH	DETSC 2008#		pH	8.4	8.0	7.9	8.1	8.0	7.7	7.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.3	0.3	0.2	0.3	0.3	0.3
Total Organic Carbon	DETSC 2084#	0.5	%	1.6	4.1	5.1	2.6	3.8	9.2	6.9
Sulphide	DETSC 2024*	10	mg/kg	28	16	< 10	< 10	< 10	32	20
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.01	0.03	0.06	0.02	0.04	0.09	0.06
Petroleum Hydrocarbons								
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

			Lab No	2528919	2528920	2528921	2528922	2528923	2528924	2528925
			Sample ID ~	SL06	SL07	SL07	SL08	SL08	SL09	SL09
			Depth ~	1.60	1.00	2.00	1.00	2.00	1.00	2.00
			Other ID ~							
			Sample Type ~	ES	ES	ES	ES	ES	ES	ES
			Sampling Date ~	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	1.81	2.25	30.90	4.09	< 1.40	< 1.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	34.99	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	1.93	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	67.82	< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	67.82	< 10.00	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	< 10.00	65.89	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene	DETSC 3301*	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs										
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	0.9	1.5	0.6	1.1	3.5	3.3

Summary of Chemical Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

RECEIVED: 05/08/2025

	Lab No	2528926	2528927	2528928	2528929	2528930	2528931	2528932
	Sample ID ~	SL10	SL10	SL11	SL11	SL12	SL12	SL13
	Depth ~	1.00	2.00	1.00	2.00	1.00	2.00	0.70
	Other ID ~							
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Preparation								
Moisture Content	DETSC 1004	0.1	%	7.7	9.1	4.6	6.9	33	11	5.2
Metals								
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	1.7	1.7	1.4	2.0	8.9	1.9	1.3
Barium	DETSC 2301#	1.5	mg/kg	6.5	5.9	8.9	16	140	11	16
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.2	0.1	0.1	0.6	0.2	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	12	10	7.8	7.0	40	8.7	7.9
Chromium III	DETSC 2301*	0.15	mg/kg	12	10	7.8	7.0	40	8.7	7.9
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	17	15	13	19	40	12	9.1
Lead	DETSC 2301#	0.3	mg/kg	18	18	17	53	33	17	9.4
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	2.7	1.3	0.5	0.8	1.9	0.9	0.5
Nickel	DETSC 2301#	1	mg/kg	7.3	6.5	4.4	4.5	37	5.1	5.7
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	0.5	< 0.5	0.6	1.2	0.6	< 0.5
Zinc	DETSC 2301#	1	mg/kg	17	18	50	68	96	32	36
Inorganics								
pH	DETSC 2008#		pH	8.5	8.2	8.1	8.2	8.1	7.8	7.8
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1	< 0.1	0.3	0.1
Total Organic Carbon	DETSC 2084#	0.5	%	0.9	1.6	0.8	1.4	1.6	3.3	1.1
Sulphide	DETSC 2024*	10	mg/kg	< 10	< 10	< 10	16	40	< 10	< 10
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	3.4	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.01	0.01	0.05	0.02	0.06	0.05	0.01
Petroleum Hydrocarbons								
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.26
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	3.10

Summary of Chemical Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

RECEIVED: 05/08/2025

	Lab No	2528926	2528927	2528928	2528929	2528930	2528931	2528932
	Sample ID ~	SL10	SL10	SL11	SL11	SL12	SL12	SL13
	Depth ~	1.00	2.00	1.00	2.00	1.00	2.00	0.70
	Other ID ~							
	Sample Type ~	ES	ES	ES	ES	ES	ES	ES
	Sampling Date ~	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	< 1.40	2.46	6.65	< 1.40	< 1.40	2.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene	DETSC 3301*	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs										
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.6	0.4	< 0.3	< 0.3	0.6	0.9	< 0.3

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

	Lab No	2528933	2528934	2528935	2528936	2528937
	Sample ID ~	SL13	SL14	SL14	SL15	SL15
	Depth ~	1.80	1.00	2.00	1.00	2.00
	Other ID ~					
	Sample Type ~	ES	ES	ES	ES	ES
	Sampling Date ~	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
Moisture Content	DETSC 1004	0.1	%	65	6.1	6.3	19	9.3
Metals						
Antimony	DETSC 2301*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	1.5	1.5	1.5	2.7	1.7
Barium	DETSC 2301#	1.5	mg/kg	9.0	8.6	11	13	3.9
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	1.3	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	< 0.1	< 0.1	0.3	0.2
Chromium	DETSC 2301#	0.15	mg/kg	5.5	3.7	4.7	9.0	6.9
Chromium III	DETSC 2301*	0.15	mg/kg	5.5	3.7	4.7	9.0	6.9
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	46	9.9	16	18	15
Lead	DETSC 2301#	0.3	mg/kg	6.3	19	22	17	15
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.06	< 0.05	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	16	0.8	2.1	1.5	1.0
Nickel	DETSC 2301#	1	mg/kg	3.2	3.1	3.4	5.4	4.7
Selenium	DETSC 2301#	0.5	mg/kg	1.4	< 0.5	< 0.5	0.7	0.5
Zinc	DETSC 2301#	1	mg/kg	19	34	28	16	11
Inorganics						
pH	DETSC 2008#		pH	6.7	8.3	7.8	7.9	7.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3	< 0.1	0.1	0.4	0.2
Total Organic Carbon	DETSC 2084#	0.5	%	20	0.8	2.3	3.8	2.2
Sulphide	DETSC 2024*	10	mg/kg	12	< 10	16	12	< 10
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.18	0.01	< 0.01	0.04	0.02
Petroleum Hydrocarbons						
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	1.24	0.90	< 0.60

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

			Lab No	2528933	2528934	2528935	2528936	2528937
			Sample ID ~	SL13	SL14	SL14	SL15	SL15
			Depth ~	1.80	1.00	2.00	1.00	2.00
			Other ID ~					
			Sample Type ~	ES	ES	ES	ES	ES
			Sampling Date ~	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	2.81	19.48	3.42	3.18
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	19.92	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	40.64	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	40.64	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	39.40	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs								
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg	< 0.10	0.27	0.35	0.75	0.43
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene	DETSC 3301*	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs								
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols								
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	6.0	1.0	0.6	1.0	0.3

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Summary of Chemical Analysis
Leachate Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

				Lab No	2528938	2528939	2528940	2528941	2528942	2528943	2528944	2528945	2528946	2528947	2528948
				Sample ID ~	BH24	SL01	SL02	SL03	SL04	SL05	SL06	SL06	SL07	SL07	SL08
				Depth ~	1.00	0.85	1.20	1.15	1.40	1.40	0.80	1.60	1.00	2.00	1.00
				Other ID ~											
				Sample Type ~	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
				Sampling Date ~	29/05/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**												
Inorganics															
Un-Ionised Ammonia	*	0.02	mg/l	0.06	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	1.1	1.0	0.87	0.88	2.6	1.4	0.61	0.27	0.92	0.81	0.55

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Summary of Chemical Analysis
Leachate Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

				Lab No	2528949	2528950	2528951	2528952	2528953	2528954	2528955	2528956	2528957	2528958	2528959
				Sample ID ~	SL08	SL09	SL09	SL10	SL10	SL11	SL11	SL12	SL12	SL13	SL13
				Depth ~	2.00	1.00	2.00	1.00	2.00	1.00	2.00	1.00	2.00	0.70	1.80
				Other ID ~											
				Sample Type ~	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
				Sampling Date ~	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**												
Inorganics															
Un-Ionised Ammonia	*	0.02	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	0.80	0.46	0.12	0.11	0.07	0.09	0.10	0.25	1.2	0.39	0.32

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Summary of Chemical Analysis
Leachate Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

	Lab No	2528960	2528961	2528962	2528963
	Sample ID ~	SL14	SL14	SL15	SL15
	Depth ~	1.00	2.00	1.00	2.00
	Other ID ~				
	Sample Type ~	ES	ES	ES	ES
	Sampling Date ~	11/06/2025	11/06/2025	11/06/2025	11/06/2025
	Sampling Time ~	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Inorganics					
Un-Ionised Ammonia	*	0.02	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	0.12	0.48	0.45	0.61

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Summary of Asbestos Analysis
Soil Samples

Our Ref 25-14422
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2528912	BH24 1.00	SOIL	NAD	none	Josh Best
2528913	SL01 0.85	SOIL	NAD	none	Josh Best
2528914	SL02 1.20	SOIL	NAD	none	Josh Best
2528915	SL03 1.15	SOIL	NAD	none	Josh Best
2528916	SL04 1.40	SOIL	NAD	none	Josh Best
2528917	SL05 1.40	SOIL	NAD	none	Josh Best
2528918	SL06 0.80	SOIL	NAD	none	Josh Best
2528919	SL06 1.60	SOIL	NAD	none	Josh Best
2528920	SL07 1.00	SOIL	NAD	none	Josh Best
2528921	SL07 2.00	SOIL	NAD	none	Josh Best
2528922	SL08 1.00	SOIL	NAD	none	Josh Best
2528923	SL08 2.00	SOIL	NAD	none	Josh Best
2528924	SL09 1.00	SOIL	NAD	none	Josh Best
2528925	SL09 2.00	SOIL	NAD	none	Josh Best
2528926	SL10 1.00	SOIL	NAD	none	Josh Best
2528927	SL10 2.00	SOIL	NAD	none	Josh Best
2528928	SL11 1.00	SOIL	NAD	none	Josh Best
2528929	SL11 2.00	SOIL	NAD	none	Josh Best
2528930	SL12 1.00	SOIL	NAD	none	Josh Best
2528931	SL12 2.00	SOIL	NAD	none	Josh Best
2528932	SL13 0.70	SOIL	NAD	none	Josh Best
2528933	SL13 1.80	SOIL	NAD	none	Josh Best
2528934	SL14 1.00	SOIL	NAD	none	Josh Best
2528935	SL14 2.00	SOIL	NAD	none	Josh Best
2528936	SL15 1.00	SOIL	NAD	none	Josh Best
2528937	SL15 2.00	SOIL	NAD	none	Josh Best

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

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Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id BH24 1.00

Sample Numbers 2528912 2528938
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.7	3	5	6
DETSC 2003# Loss On Ignition	%	1.4	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.44	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	2.4	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.42	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.3	0.04	2	50	100
DETSC 2306 Mercury as Hg	0.026	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.6	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.64	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.2	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.19	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.38	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	3.4	0.03	4	50	200
DETSC 2055 Chloride as Cl	580	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	220	2.2	10	150	500
DETSC 2055 Sulphate as SO4	1500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	110000	1100	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	7800	78	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	8.1
DETSC 2009 Conductivity uS/cm	152.0
* Temperature*	20.0

Mass of Sample Kg	0.098
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.892
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL01 0.85

Sample Numbers 2528913 2528939
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.6	3	5	6
DETSC 2003# Loss On Ignition	%	6.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.58	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	4.6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.036	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.38	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.1	0.05	2	50	100
DETSC 2306 Mercury as Hg	0.02	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	6.2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.89	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.5	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.27	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.4	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	3.7	0.04	4	50	200
DETSC 2055 Chloride as Cl	2400	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	180	1.8	10	150	500
DETSC 2055 Sulphate as SO4	1900	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	170000	1700	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	16000	160	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.7
DETSC 2009 Conductivity uS/cm	244.0
* Temperature*	20.0

Mass of Sample Kg	0.108
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.882
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL02 1.20

Sample Numbers 2528914 2528940
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	4.4	3	5	6
DETSC 2003# Loss On Ignition	%	8.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.5	0.02	0.5	2	25
DETSC 2306 Barium as Ba	9	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.08	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.7	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	11	0.11	2	50	100
DETSC 2306 Mercury as Hg	0.023	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.6	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	9.9	0.1	0.5	10	50
DETSC 2306 Antimony as Sb	0.29	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	20	0.2	4	50	200
DETSC 2055 Chloride as Cl	1600	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2700	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	50000	500	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	29000	290	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	70.8
* Temperature*	20.0

Mass of Sample Kg	0.107
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.883
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL03 1.15

Sample Numbers 2528915 2528941
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	7.1	3	5	6
DETSC 2003# Loss On Ignition	%	14.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	2	0.02	0.5	2	25
DETSC 2306 Barium as Ba	12	0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.12	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	2.3	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	25	0.25	2	50	100
DETSC 2306 Mercury as Hg	0.026	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.5	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	3.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	12	0.12	0.5	10	50
DETSC 2306 Antimony as Sb	0.38	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	15	0.15	4	50	200
DETSC 2055 Chloride as Cl	610	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	1700	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	42000	420	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	38000	380	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.4
DETSC 2009 Conductivity uS/cm	59.3
* Temperature*	20.0

Mass of Sample Kg	0.119
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.871
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL04 1.40

Sample Numbers 2528916 2528942
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	33.0	3	5	6
DETSC 2003# Loss On Ignition	%	86.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.2	0.01	0.5	2	25
DETSC 2306 Barium as Ba	6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.061	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.49	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	11	0.11	2	50	100
DETSC 2306 Mercury as Hg	0.012	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	18	0.2	0.5	10	30
DETSC 2306 Nickel as Ni	0.93	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.69	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.52	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	6.1	0.06	0.1	0.5	7
DETSC 2306 Zinc as Zn	5.5	0.06	4	50	200
DETSC 2055 Chloride as Cl	1000	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	100	1	10	150	500
DETSC 2055 Sulphate as SO4	9400	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	94000	940	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	36000	360	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	135.0
* Temperature*	20.0

Mass of Sample Kg	0.380
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.61
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL05 1.40

Sample Numbers 2528917 2528943
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.2	3	5	6
DETSC 2003# Loss On Ignition	%	4.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.57	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	5.3	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.46	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.8	0.05	2	50	100
DETSC 2306 Mercury as Hg	0.011	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	4.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.51	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3.3	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.2	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.2	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	2.5	0.03	4	50	200
DETSC 2055 Chloride as Cl	480	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	100	1	10	150	500
DETSC 2055 Sulphate as SO4	1200	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	110000	1100	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	16000	160	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.3
DETSC 2009 Conductivity uS/cm	157.0
* Temperature*	20.0

Mass of Sample Kg	0.103
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.887
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL06 0.80

Sample Numbers 2528918 2528944
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	26.0	3	5	6
DETSC 2003# Loss On Ignition	%	57.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.76	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	10	0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.059	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.95	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	19	0.19	2	50	100
DETSC 2306 Mercury as Hg	0.014	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	14	0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.3	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3.8	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.28	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.4	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	5.9	0.06	4	50	200
DETSC 2055 Chloride as Cl	2800	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	5400	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	150000	1500	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	18000	180	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.0
DETSC 2009 Conductivity uS/cm	214.0
* Temperature*	20.0

Mass of Sample Kg	0.246
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.744
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL06 1.60

Sample Numbers 2528919 2528945
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.6	3	5	6
DETSC 2003# Loss On Ignition	%	1.4	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	4.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.49	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	4.2	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.39	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.3	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.014	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	8.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.2	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.74	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.85	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	< 1.3	< 0.01	4	50	200
DETSC 2055 Chloride as Cl	350	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	110	1.1	10	150	500
DETSC 2055 Sulphate as SO4	6100	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	75000	750	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5400	54	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.3
DETSC 2009 Conductivity uS/cm	107.0
* Temperature*	20.0

Mass of Sample Kg	0.101
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.889
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL07 1.00

Sample Numbers 2528920 2528946
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	4.1	3	5	6
DETSC 2003# Loss On Ignition	%	8.1	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.3	0.01	0.5	2	25
DETSC 2306 Barium as Ba	7.2	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.091	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.97	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	10	0.1	2	50	100
DETSC 2306 Mercury as Hg	0.018	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	16	0.2	0.5	10	30
DETSC 2306 Nickel as Ni	1.3	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	9.3	0.09	0.5	10	50
DETSC 2306 Antimony as Sb	0.83	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.6	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	2.7	0.03	4	50	200
DETSC 2055 Chloride as Cl	390	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	160	1.6	10	150	500
DETSC 2055 Sulphate as SO4	2800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	110000	1100	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	27000	270	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.4
DETSC 2009 Conductivity uS/cm	162.0
* Temperature*	20.0

Mass of Sample Kg	0.113
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.877
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL07 2.00

Sample Numbers 2528921 2528947
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	5.1	3	5	6
DETSC 2003# Loss On Ignition	%	11.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.94	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	4.8	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.036	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.71	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.4	0.07	2	50	100
DETSC 2306 Mercury as Hg	0.014	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	5.8	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.97	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	6.2	0.06	0.5	10	50
DETSC 2306 Antimony as Sb	0.35	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	2.1	0.02	4	50	200
DETSC 2055 Chloride as Cl	340	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	140	1.4	10	150	500
DETSC 2055 Sulphate as SO4	1700	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	85000	850	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	17000	170	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	121.0
* Temperature*	20.0

Mass of Sample Kg	0.108
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.882
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL08 1.00

Sample Numbers 2528922 2528948
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.6	3	5	6
DETSC 2003# Loss On Ignition	%	4.7	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	66.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.92	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	4.6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.036	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.59	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.2	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.011	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	7.7	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.79	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	5.5	0.06	0.5	10	50
DETSC 2306 Antimony as Sb	0.36	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.93	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	4.1	0.04	4	50	200
DETSC 2055 Chloride as Cl	260	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	190	1.9	10	150	500
DETSC 2055 Sulphate as SO4	2100	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	84000	840	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	13000	130	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	120.0
* Temperature*	20.0

Mass of Sample Kg	0.106
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.884
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL08 2.00

Sample Numbers 2528923 2528949
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.8	3	5	6
DETSC 2003# Loss On Ignition	%	8.1	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.88	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	5.6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.049	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.73	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	8.5	0.09	2	50	100
DETSC 2306 Mercury as Hg	0.014	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	7.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.96	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	6.1	0.06	0.5	10	50
DETSC 2306 Antimony as Sb	0.35	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.2	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	3.9	0.04	4	50	200
DETSC 2055 Chloride as Cl	410	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	130	1.3	10	150	500
DETSC 2055 Sulphate as SO4	1900	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	120000	1200	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	20000	200	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.6
DETSC 2009 Conductivity uS/cm	169.0
* Temperature*	20.0

Mass of Sample Kg	0.104
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.886
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL09 1.00

Sample Numbers 2528924 2528950
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	9.2	3	5	6
DETSC 2003# Loss On Ignition	%	18.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.7	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	1.5	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.3	0.01	0.5	2	25
DETSC 2306 Barium as Ba	6.7	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.041	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.34	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	3.7	0.04	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	37	0.4	0.5	10	30
DETSC 2306 Nickel as Ni	0.63	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.2	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.49	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.56	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	4.8	0.05	4	50	200
DETSC 2055 Chloride as Cl	1900	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	110	1.1	10	150	500
DETSC 2055 Sulphate as SO4	8500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	130000	1300	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	14000	140	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.7
DETSC 2009 Conductivity uS/cm	191.0
* Temperature*	20.0

Mass of Sample Kg	0.193
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.797
Volume of Eluate VE1	0.78

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL09 2.00

Sample Numbers 2528925 2528951
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	6.9	3	5	6
DETSC 2003# Loss On Ignition	%	16.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	1.4	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.4	0.01	0.5	2	25
DETSC 2306 Barium as Ba	9.2	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.73	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	3.6	0.04	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	36	0.4	0.5	10	30
DETSC 2306 Nickel as Ni	0.79	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.56	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.57	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	3.8	0.04	4	50	200
DETSC 2055 Chloride as Cl	2000	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	140	1.4	10	150	500
DETSC 2055 Sulphate as SO4	12000	120	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	130000	1300	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	10000	100	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.8
DETSC 2009 Conductivity uS/cm	190.0
* Temperature*	20.0

Mass of Sample Kg	0.149
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.841
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL10 1.00

Sample Numbers 2528926 2528952
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.9	3	5	6
DETSC 2003# Loss On Ignition	%	1.8	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.5	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.42	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	3.6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.47	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	3.4	0.03	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	3.7	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.5	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.41	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	2	0.02	4	50	200
DETSC 2055 Chloride as Cl	220	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	190	1.9	10	150	500
DETSC 2055 Sulphate as SO4	780	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	65000	650	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	6700	67	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.0
DETSC 2009 Conductivity uS/cm	92.9
* Temperature*	20.0

Mass of Sample Kg	0.097
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.893
Volume of Eluate VE1	0.81

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL10 2.00

Sample Numbers 2528927 2528953
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.6	3	5	6
DETSC 2003# Loss On Ignition	%	3.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.38	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	3.9	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.64	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.8	0.05	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.6	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.6	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	2.1	0.02	4	50	200
DETSC 2055 Chloride as Cl	340	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	130	1.3	10	150	500
DETSC 2055 Sulphate as SO4	970	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	92000	920	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	15000	150	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.0
DETSC 2009 Conductivity uS/cm	131.0
* Temperature*	20.0

Mass of Sample Kg	0.099
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.891
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL11 1.00

Sample Numbers 2528928 2528954
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.8	3	5	6
DETSC 2003# Loss On Ignition	%	1.4	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.48	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	8.9	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.29	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.4	0.05	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	4.4	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.78	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.24	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.42	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.69	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	4.1	0.04	4	50	200
DETSC 2055 Chloride as Cl	270	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	170	1.7	10	150	500
DETSC 2055 Sulphate as SO4	86000	860	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	200000	2000	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	8800	88	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.8
DETSC 2009 Conductivity uS/cm	284.0
* Temperature*	20.0

Mass of Sample Kg	0.094
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.896
Volume of Eluate VE1	0.79

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL11 2.00

Sample Numbers 2528929 2528955
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.4	3	5	6
DETSC 2003# Loss On Ignition	%	3.2	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.56	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	3.8	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.35	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.7	0.05	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	4.5	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.8	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.23	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.71	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	2	0.02	4	50	200
DETSC 2055 Chloride as Cl	300	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	170	1.7	10	150	500
DETSC 2055 Sulphate as SO4	9800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	91000	910	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	9500	95	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.0
DETSC 2009 Conductivity uS/cm	130.0
* Temperature*	20.0

Mass of Sample Kg	0.097
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.893
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL12 1.00

Sample Numbers 2528930 2528956
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.6	3	5	6
DETSC 2003# Loss On Ignition	%	3.6	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	2.2	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1	0.01	0.5	2	25
DETSC 2306 Barium as Ba	6.4	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.71	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	9.6	0.1	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	3.4	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	3.6	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.2	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.34	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	1.7	0.02	4	50	200
DETSC 2055 Chloride as Cl	1500	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	250	2.5	10	150	500
DETSC 2055 Sulphate as SO4	6300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	100000	1000	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	11000	110	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	143.0
* Temperature*	20.0

Mass of Sample Kg	0.134
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.856
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL12 2.00

Sample Numbers 2528931 2528957
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.3	3	5	6
DETSC 2003# Loss On Ignition	%	5.1	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.97	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	8.2	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.082	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.56	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.5	0.07	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	5.4	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.84	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.8	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.21	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.2	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	2.3	0.02	4	50	200
DETSC 2055 Chloride as Cl	600	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	7000	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	140000	1400	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	22000	220	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	201.0
* Temperature*	20.0

Mass of Sample Kg	0.102
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.888
Volume of Eluate VE1	0.78

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL13 0.70

Sample Numbers 2528932 2528958
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.1	3	5	6
DETSC 2003# Loss On Ignition	%	1.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.44	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	4	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.04	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.8	0.06	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.7	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.7	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.6	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.67	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	3.5	0.04	4	50	200
DETSC 2055 Chloride as Cl	1600	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	1500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	44000	440	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	15000	150	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.1
DETSC 2009 Conductivity uS/cm	62.8
* Temperature*	20.0

Mass of Sample Kg	0.095
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.895
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL13 1.80

Sample Numbers 2528933 2528959
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	20.0	3	5	6
DETSC 2003# Loss On Ignition	%	61.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.7	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	1.2	0.01	0.5	2	25
DETSC 2306 Barium as Ba	8.4	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.071	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.78	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.011	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	150	1.5	0.5	10	30
DETSC 2306 Nickel as Ni	0.76	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.2	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.61	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.9	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	5	0.05	4	50	200
DETSC 2055 Chloride as Cl	2800	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	33000	330	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	120000	1200	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	19000	190	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.7
DETSC 2009 Conductivity uS/cm	174.0
* Temperature*	20.0

Mass of Sample Kg	0.255
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.735
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL14 1.00

Sample Numbers 2528934 2528960
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.8	3	5	6
DETSC 2003# Loss On Ignition	%	1.7	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.3	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.36	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	3.2	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.4	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	3.8	0.04	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	11	0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.8	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.5	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	1.4	0.01	4	50	200
DETSC 2055 Chloride as Cl	220	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	810	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	52000	520	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	6700	67	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	74.7
* Temperature*	20.0

Mass of Sample Kg	0.096
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.894
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL14 2.00

Sample Numbers 2528935 2528961
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.3	3	5	6
DETSC 2003# Loss On Ignition	%	4.8	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	41.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.43	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	2.9	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.48	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.2	0.04	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.8	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.1	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.63	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	< 1.3	< 0.01	4	50	200
DETSC 2055 Chloride as Cl	350	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	120	1.2	10	150	500
DETSC 2055 Sulphate as SO4	1300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	58000	580	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	7400	74	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	82.3
* Temperature*	20.0

Mass of Sample Kg	0.096
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.894
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL15 1.00

Sample Numbers 2528936 2528962
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.8	3	5	6
DETSC 2003# Loss On Ignition	%	7.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.77	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	5.4	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.55	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.5	0.06	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	7.8	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.78	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.8	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.96	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	2.2	0.02	4	50	200
DETSC 2055 Chloride as Cl	630	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	150	1.5	10	150	500
DETSC 2055 Sulphate as SO4	1700	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	120000	1200	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	15000	150	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.8
DETSC 2009 Conductivity uS/cm	166.0
* Temperature*	20.0

Mass of Sample Kg	0.112
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.878
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2025

Our Ref 25-14422
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id SL15 2.00

Sample Numbers 2528937 2528963
Date Analysed 07/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.2	3	5	6
DETSC 2003# Loss On Ignition	%	4.7	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.9	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.55	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	4.2	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.5	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.9	0.06	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	4.8	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	1.8	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	3.4	0.03	4	50	200
DETSC 2055 Chloride as Cl	450	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	100	1	10	150	500
DETSC 2055 Sulphate as SO4	1400	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	95000	950	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	14000	140	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.9
DETSC 2009 Conductivity uS/cm	136.0
* Temperature*	20.0

Mass of Sample Kg	0.099
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.891
Volume of Eluate VE1	0.78

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

RECEIVED: 05/08/2026

Information in Support of the Analytical Results

Our Ref 25-14422
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2528912	BH24 1.00 SOIL	29/05/25	GJ 60ml x4, PT 1L x2	BTEX / C5-C10 (14 days), Sulphur (free) (7 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
2528913	SL01 0.85 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528914	SL02 1.20 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528915	SL03 1.15 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528916	SL04 1.40 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528917	SL05 1.40 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528918	SL06 0.80 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528919	SL06 1.60 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528920	SL07 1.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528921	SL07 2.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528922	SL08 1.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528923	SL08 2.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528924	SL09 1.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528925	SL09 2.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528926	SL10 1.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528927	SL10 2.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528928	SL11 1.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528929	SL11 2.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528930	SL12 1.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528931	SL12 2.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528932	SL13 0.70 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528933	SL13 1.80 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528934	SL14 1.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528935	SL14 2.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	

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Information in Support of the Analytical Results

Our Ref 25-14422
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2528936	SL15 1.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528937	SL15 2.00 SOIL	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Sulphur (free) (7 days), pH + Conductivity (7 days)	
2528938	BH24 1.00 LEACHATE	29/05/25	GJ 60ml x2, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days), Cyanide/Mono pHoh (14 days)	
2528939	SL01 0.85 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528940	SL02 1.20 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528941	SL03 1.15 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528942	SL04 1.40 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528943	SL05 1.40 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528944	SL06 0.80 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528945	SL06 1.60 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528946	SL07 1.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528947	SL07 2.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528948	SL08 1.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528949	SL08 2.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528950	SL09 1.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528951	SL09 2.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528952	SL10 1.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	

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Information in Support of the Analytical Results

Our Ref 25-14422
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2528953	SL10 2.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528954	SL11 1.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528955	SL11 2.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528956	SL12 1.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528957	SL12 2.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528958	SL13 0.70 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528959	SL13 1.80 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528960	SL14 1.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528961	SL14 2.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	

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Information in Support of the Analytical Results

Our Ref 25-14422
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Contract ~ Kingston Lands

2528962	SL15 1.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	
2528963	SL15 2.00 LEACHATE	11/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days)	

Lab No	Sample ID	Comments
2528942	SL04 1.40 LEACI	Insufficient sample 1353g (<2kg) Sample received
2528944	SL06 0.80 LEACI	Insufficient sample 1764g (<2kg) Sample received
2528959	SL13 1.80 LEACI	Insufficient sample 1281g (<2kg) Sample received
2528963	SL15 2.00 LEACI	Insufficient sample 1853g (<2kg) Sample received

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic >EC40-EC44	EH_2D_AL
Aliphatic C5-C44	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic >EC40-EC44	EH_2D_AR
Aromatic C5-C44	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C44	EH_2D+HS_1D_Total
EPH >C24-C40	EH_2D_Total
Mineral Oil >C10-C40 + Clean Up	EH_CU_2D_Total

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Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 25.03.07

Certificate of Analysis

RECEIVED: 05/08/2026

Certificate Number	25-15299	*Issued:*	16-Jul-25

Client Causeway Geotech
Unit 1 Fingal House
Stephenstown Industrial Estate
Balbriggan
Co. Dublin
K32 VR66

Our Reference 25-15299

Client Reference ~ 24-0211

Order No ~ (not supplied)

Contract Title ~ Kingston Lands

Description 6 Soil samples, 6 Leachate prepared by DETS samples.

Date Received 07-Jul-25

Date Started 07-Jul-25

Date Completed 16-Jul-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Reyhan Irfan
Operations Manager

2139

Sample Deviations present. See Deviation Table Section for details.

Normec DETS

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-15299
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

			Lab No	2533912	2533913	2533914	2533915	2533916	2533917
			Sample ID ~	ETP04	ETP03	TP04	TP09	TP16	BH07
			Depth ~	2.00	1.00	0.50	1.00	1.00	0.50
			Other ID ~						
			Sample Type ~	ES	ES	ES	ES	ES	ES
			Sampling Date ~	23/05/2025	26/05/2025	26/05/2025	26/05/2025	28/05/2025	01/06/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	8.9	10	75	8.5	7.9	6.0
Metals									
Antimony	DETSC 2301*	1	mg/kg	1.2	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	DETSC 2301#	0.2	mg/kg	2.0	2.1	2.6	1.9	1.2	2.1
Barium	DETSC 2301#	1.5	mg/kg	17	22	27	16	5.7	13
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.2	< 0.2	0.8	< 0.2	0.3	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	1.4	1.8	< 0.1	1.8	0.5	1.6
Chromium	DETSC 2301#	0.15	mg/kg	16	15	10	10	3.8	6.2
Chromium III	DETSC 2301*	0.15	mg/kg	16	15	10	10	3.8	6.2
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	23	27	60	20	14	15
Lead	DETSC 2301#	0.3	mg/kg	23	27	22	16	16	29
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	2.8	1.8	9.9	1.6	2.2	0.5
Nickel	DETSC 2301#	1	mg/kg	12	10	8.0	7.4	2.7	4.7
Selenium	DETSC 2301#	0.5	mg/kg	0.7	< 0.5	1.7	< 0.5	0.6	< 0.5
Zinc	DETSC 2301#	1	mg/kg	31	32	22	34	20	46
Inorganics									
pH	DETSC 2008#		pH	8.0	7.2	6.7	8.2	7.0	8.4
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.1	0.4	< 0.1	0.2	< 0.1
Total Organic Carbon	DETSC 2084#	0.5	%	1.0	2.0	25	0.5	2.2	0.9
Sulphide	DETSC 2024*	10	mg/kg	< 10	24	16	12	16	28
Sulphur (free)	DETSC 3049#	0.75	mg/kg	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.01	< 0.01	0.24	0.01	0.03	0.02
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40	< 3.40
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60

Normec DETS

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Summary of Chemical Analysis
Soil Samples

Our Ref 25-15299
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

			Lab No	2533912	2533913	2533914	2533915	2533916	2533917
			Sample ID ~	ETP04	ETP03	TP04	TP09	TP16	BH07
			Depth ~	2.00	1.00	0.50	1.00	1.00	0.50
			Other ID ~						
			Sample Type ~	ES	ES	ES	ES	ES	ES
			Sampling Date ~	23/05/2025	26/05/2025	26/05/2025	26/05/2025	28/05/2025	01/06/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	2.27
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
EPH >C24-C40: EH_2D_Total	DETSC 3521#	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene	DETSC 3301*	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	2.7	< 0.3	0.7	< 0.3

Summary of Chemical Analysis
Leachate Samples

Our Ref 25-15299
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

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			Lab No	2533918	2533919	2533920	2533921	2533922	2533923
			Sample ID ~	ETP04	ETP03	TP04	TP09	TP16	BH07
			Depth ~	2.00	1.00	0.50	1.00	1.00	0.50
			Other ID ~						
			Sample Type ~	ES	ES	ES	ES	ES	ES
			Sampling Date ~	23/05/2025	26/05/2025	26/05/2025	26/05/2025	28/05/2025	01/06/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Inorganics									
Un-Ionised Ammonia	*	0.02	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammoniacal Nitrogen as NH4	DETSC 2207	0.0193	mg/l	0.16	0.04	0.33	0.08	0.03	0.02

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-15299
Client Ref ~ 24-0211
Contract Title ~ Kingston Lands

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Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2533912	ETP04 2.00	SOIL	NAD	none	Josh Best
2533913	ETP03 1.00	SOIL	NAD	none	Josh Best
2533914	TP04 0.50	SOIL	NAD	none	Josh Best
2533915	TP09 1.00	SOIL	NAD	none	Josh Best
2533916	TP16 1.00	SOIL	NAD	none	Josh Best
2533917	BH07 0.50	SOIL	NAD	none	Josh Best

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

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Our Ref 25-15299
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id ETP04 2.00

Sample Numbers 2533912 2533918
Date Analysed 16/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.0	3	5	6
DETSC 2003# Loss On Ignition	%	2.2	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.54	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	4.5	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.53	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	5.3	0.05	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	8.4	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	0.76	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.7	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.99	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	7.1	0.07	4	50	200
DETSC 2055 Chloride as Cl	990	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	190	1.9	10	150	500
DETSC 2055 Sulphate as SO4	1900	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	65000	650	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5700	57	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.6
DETSC 2009 Conductivity uS/cm	93.2
* Temperature*	19.0

Mass of Sample Kg	0.099
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.891
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

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Our Ref 25-15299
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id ETP03 1.00

Sample Numbers 2533913 2533919
Date Analysed 16/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.0	3	5	6
DETSC 2003# Loss On Ignition	%	3.3	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.91	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	13	0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.05	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	4.7	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	36	0.36	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.5	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2.8	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	4.6	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.9	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	8.3	0.08	4	50	200
DETSC 2055 Chloride as Cl	810	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	120	1.2	10	150	500
DETSC 2055 Sulphate as SO4	1000	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	20000	200	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5400	54	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.1
DETSC 2009 Conductivity uS/cm	27.9
* Temperature*	19.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.89
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

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Our Ref 25-15299
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id TP04 0.50

Sample Numbers 2533914 2533920
Date Analysed 16/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	25.0	3	5	6
DETSC 2003# Loss On Ignition	%	75.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	6.7	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.52	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	< 0.25	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	2.5	0.03	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	15	0.2	0.5	10	30
DETSC 2306 Nickel as Ni	0.64	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.32	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	< 0.25	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	6.7	0.07	4	50	200
DETSC 2055 Chloride as Cl	3000	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	34000	340	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	85000	850	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	7000	70	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.5
DETSC 2009 Conductivity uS/cm	121.0
* Temperature*	19.0

Mass of Sample Kg	0.090
Mass of dry Sample Kg	0.022

Stage 1

Volume of Leachant L2	0.154
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

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Our Ref 25-15299
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id TP09 1.00
Sample Numbers 2533915 2533921
Date Analysed 16/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.5	3	5	6
DETSC 2003# Loss On Ignition	%	1.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	2.4	0.02	0.5	2	25
DETSC 2306 Barium as Ba	5.5	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	0.047	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	1.5	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	11	0.11	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	21	0.2	0.5	10	30
DETSC 2306 Nickel as Ni	1.8	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3.1	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	1.3	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	3.5	0.04	4	50	200
DETSC 2055 Chloride as Cl	610	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	190	1.9	10	150	500
DETSC 2055 Sulphate as SO4	8300	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	60000	600	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	4100	< 50	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.5
DETSC 2009 Conductivity uS/cm	85.3
* Temperature*	19.0

Mass of Sample Kg	0.098
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.892
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

RECEIVED: 05/09/2026

Our Ref 25-15299
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id TP16 1.00
Sample Numbers 2533916 2533922
Date Analysed 16/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	2.2	3	5	6
DETSC 2003# Loss On Ignition	%	7.1	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.42	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	1.6	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.49	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	2.5	0.03	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.4	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	2.1	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.18	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.4	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	1.8	0.02	4	50	200
DETSC 2055 Chloride as Cl	840	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	880	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	18000	180	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	7900	79	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.1
DETSC 2009 Conductivity uS/cm	26.4
* Temperature*	19.0

Mass of Sample Kg	0.098
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.892
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

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Our Ref 25-15299
Client Ref 24-0211
Contract Title Kingston Lands
Sample Id BH07 0.50
Sample Numbers 2533917 2533923
Date Analysed 16/07/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.9	3	5	6
DETSC 2003# Loss On Ignition	%	2.2	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3521* Mineral Oil >C10-C40 + Clean Up	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.38	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	3.1	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.46	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	3.8	0.04	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.56	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	1.3	0.01	4	50	200
DETSC 2055 Chloride as Cl	1100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	830	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	51000	510	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5500	55	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	7.7
DETSC 2009 Conductivity uS/cm	72.6
* Temperature*	19.0

Mass of Sample Kg	0.096
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.894
Volume of Eluate VE1	0.8

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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Information in Support of the Analytical Results

Our Ref 25-15299
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2533912	ETP04 2.00 SOIL	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	BTEX / C5-C10 (14 days), Sulphur (free) (7 days), EPH/Aliphatic/Aromatic (14 days), Mercury (28 days), Total Sulphate ICP (30 days), Kone Cr6 (30 days), Naphthalene (14 days), Organic Matter (Auto) (28 days), PAH FID (14 days), PCB (30 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
2533913	ETP03 1.00 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	BTEX / C5-C10 (14 days), Sulphur (free) (7 days), EPH/Aliphatic/Aromatic (14 days), Mercury (28 days), Total Sulphate ICP (30 days), Kone Cr6 (30 days), Naphthalene (14 days), Organic Matter (Auto) (28 days), PAH FID (14 days), PCB (30 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
2533914	TP04 0.50 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	BTEX / C5-C10 (14 days), Sulphur (free) (7 days), EPH/Aliphatic/Aromatic (14 days), Mercury (28 days), Total Sulphate ICP (30 days), Kone Cr6 (30 days), Naphthalene (14 days), Organic Matter (Auto) (28 days), PAH FID (14 days), PCB (30 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
2533915	TP09 1.00 SOIL	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	BTEX / C5-C10 (14 days), Sulphur (free) (7 days), EPH/Aliphatic/Aromatic (14 days), Mercury (28 days), Total Sulphate ICP (30 days), Kone Cr6 (30 days), Naphthalene (14 days), Organic Matter (Auto) (28 days), PAH FID (14 days), PCB (30 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
2533916	TP16 1.00 SOIL	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	BTEX / C5-C10 (14 days), Sulphur (free) (7 days), EPH/Aliphatic/Aromatic (14 days), Mercury (28 days), Total Sulphate ICP (30 days), Kone Cr6 (30 days), Naphthalene (14 days), Organic Matter (Auto) (28 days), PAH FID (14 days), PCB (30 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
2533917	BH07 0.50 SOIL	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2	BTEX / C5-C10 (14 days), Sulphur (free) (7 days), EPH/Aliphatic/Aromatic (14 days), Mercury (28 days), Total Sulphate ICP (30 days), Kone Cr6 (30 days), Naphthalene (14 days), Organic Matter (Auto) (28 days), PAH FID (14 days), PCB (30 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	
2533918	ETP04 2.00 LEACHATE	23/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Conductivity (non reportable) (28 days), Conductivity uS/cm (25oC) (28 days), Anions (28 days), Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days), Phenol Index (30 days), Cyanide/Mono pHoh (14 days), Total Dissolved s (28 days), TOC AN (28 days)	

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Information in Support of the Analytical Results

Our Ref 25-15299
Client Ref ~ 24-0211
Contract ~ Kingston Lands

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2533919	ETP03 1.00 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Conductivity (non reportable) (28 days), Conductivity uS/cm (25oC) (28 days), Anions (28 days), Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days), Phenol Index (30 days), Cyanide/Mono pHoh (14 days), Total Dissolved s (28 days), TOC AN (28 days)	
2533920	TP04 0.50 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Conductivity (non reportable) (28 days), Conductivity uS/cm (25oC) (28 days), Anions (28 days), Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days), Phenol Index (30 days), Cyanide/Mono pHoh (14 days), Total Dissolved s (28 days), TOC AN (28 days)	
2533921	TP09 1.00 LEACHATE	26/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Conductivity (non reportable) (28 days), Conductivity uS/cm (25oC) (28 days), Anions (28 days), Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days), Phenol Index (30 days), Cyanide/Mono pHoh (14 days), Total Dissolved s (28 days), TOC AN (28 days)	
2533922	TP16 1.00 LEACHATE	28/05/25	GJ 250ml, GJ 60ml, PT 1L x2	Conductivity (non reportable) (28 days), Conductivity uS/cm (25oC) (28 days), Anions (28 days), Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days), Phenol Index (30 days), Cyanide/Mono pHoh (14 days), Total Dissolved s (28 days), TOC AN (28 days)	

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Information in Support of the Analytical Results

Our Ref 25-15299
Client Ref ~ 24-0211
Contract ~ Kingston Lands

2533923	BH07 0.50 LEACHATE	01/06/25	GJ 250ml, GJ 60ml, PT 1L x2	Conductivity (non reportable) (28 days), Conductivity uS/cm (25oC) (28 days), Anions (28 days), Kone (4 days), pH/Cond (1 days), Un-Ionised Ammonia (10 days), Ammoniacal Nitrogen as NH4 (10 days), Phenol Index (30 days), Cyanide/Mono pHoh (14 days), Total Dissolved s (28 days), TOC AN (28 days)	

Lab No	Sample ID	Comments
2533918	ETP04 2.00 LEA	Insufficient sample 1876g (<2kg) Sample received
2533919	ETP03 1.00 LEA	Insufficient sample 1866g (<2kg) Sample received
2533920	TP04 0.50 LEAC	Insufficient sample 891.9g (<2kg) Sample received
2533921	TP09 1.00 LEAC	Insufficient sample 1316g (<2kg) Sample received
2533923	BH07 0.50 LEAC	Insufficient sample 931.7g (<2kg) Sample received

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic >EC40-EC44	EH_2D_AL
Aliphatic C5-C44	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic >EC40-EC44	EH_2D_AR
Aromatic C5-C44	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C44	EH_2D+HS_1D_Total
EPH >C24-C40	EH_2D_Total
Mineral Oil >C10-C40 + Clean Up	EH_CU_2D_Total

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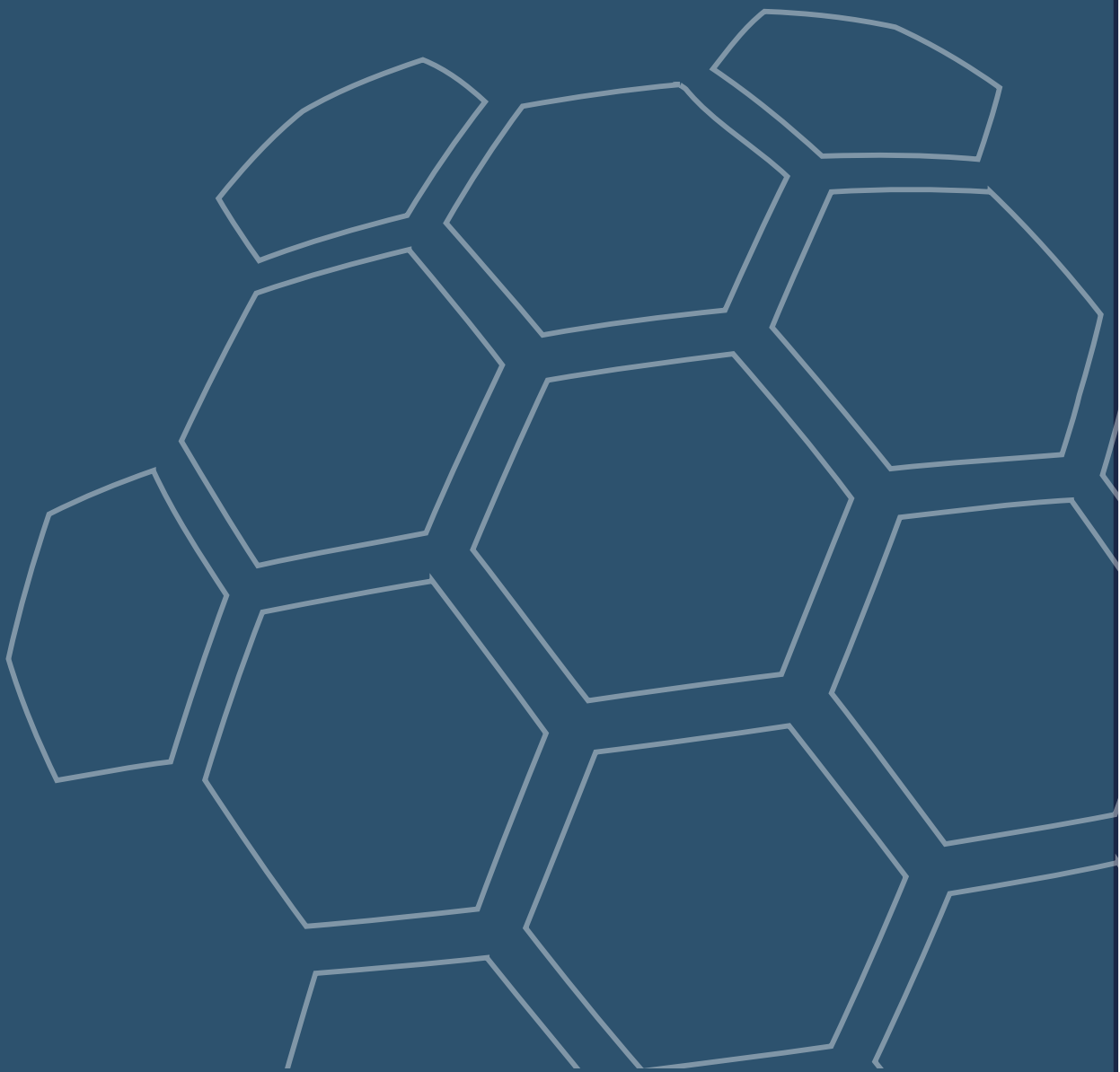
Key:

~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 25.03.07

APPENDIX N – SPT HAMMER ENERGY MEASUREMENT REPORT

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SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Causeway Geotech LTD
8 Drumahiskey Road
Ballymoney
Co Antrim
BT53 7QL

SPT Hammer Ref: 1529
Test Date: 07/03/2025
Report Date:
File Name: 1529.spt
Test Operator: CD

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UKAS TESTING

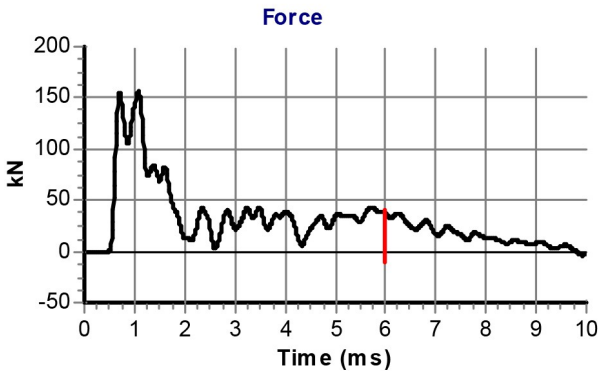
Instrumented Rod Data

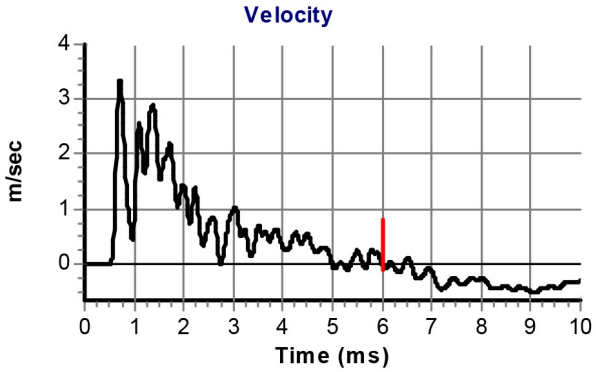
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.4
Rod Length l_r (m):	1.0
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	78855
Accelerometer No.2:	78856

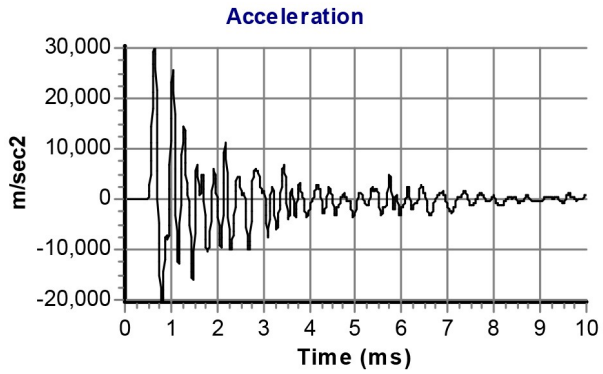
SPT Hammer Information

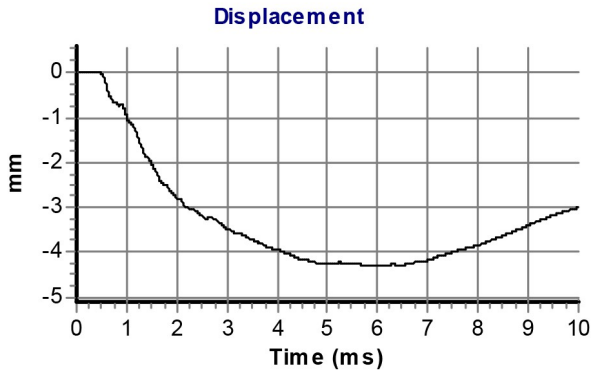
Hammer Mass m (kg):	63.5
Falling Height h (mm):	760
SPT String Length L (m):	10.0

Comments / Location









Calculations

Area of Rod A (mm2):	957
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	322

Energy Ratio E_r (%): **68**

Signed: Colin Dunlop
Title: Plant Manager

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SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Causeway Geotech LTD
8 Drumahiskey Road
Ballymoney
Co Antrim
BT53 7QL

SPT Hammer Ref: 1377
Test Date: 24/03/2025
Report Date:
File Name: 1377.spt
Test Operator: CD

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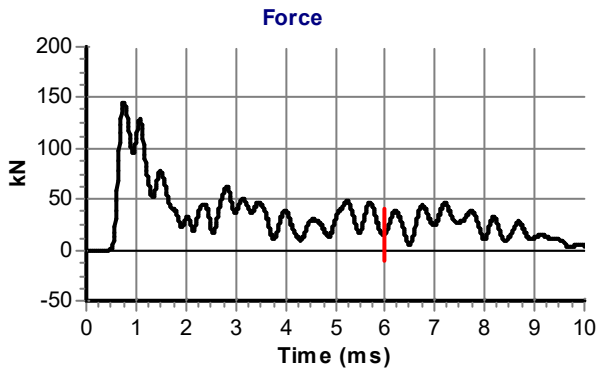
Instrumented Rod Data

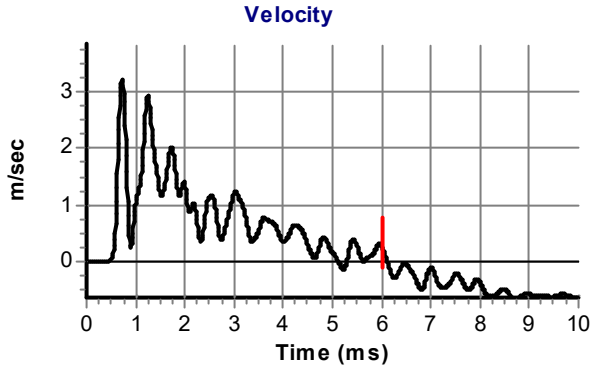
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.4
Rod Length l_r (m):	1.0
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	78855
Accelerometer No.2:	78856

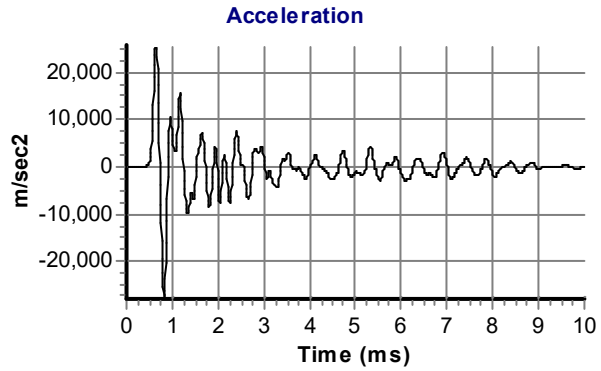
SPT Hammer Information

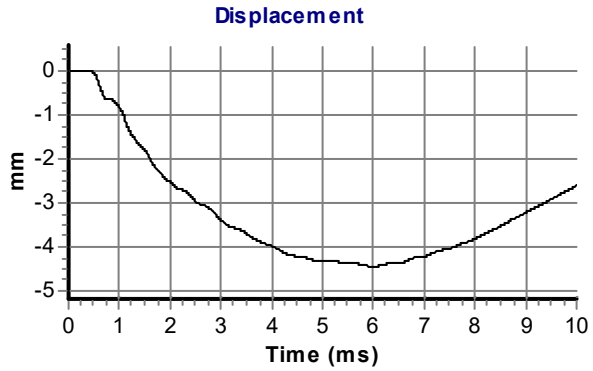
Hammer Mass m (kg):	63.5
Falling Height h (mm):	760
SPT String Length L (m):	10.0

Comments / Location









Calculations

Area of Rod A (mm2):	957
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	260

Energy Ratio E_r (%): 55

Signed: Colin Dunlop
Title: Plant Manager

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CAUSEWAY GEOTECH

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Causeway Geotech Limited has made its commitment to health and safety of people, the environment and the quality of its services an integral part of our strategy.

Whether it be ensuring people's safety or meeting the challenges of operating in an ecologically diverse environment, we aim to act in a sustainable and responsible manner at all times.

CERTIFICATIONS /ACCREDITATIONS

Constructionline Gold Member

SCS INTEGRATED CERTIFICATION ISO 9001, 14001 & 45001 — UKAS MANAGEMENT SYSTEMS 9235

MEMBERSHIPS

AGS

BRITISH DRILLING ASSOCIATION

BGA · THE BRITISH · GEOTECHNICAL ASSOCIATION

INTERNATIONAL JACK-UP BARGE OPERATORS ASSOCIATION

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