



Analytical Report Number : 22-12888 Project / Site name: Kenley Campus

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status	
GC	Gas Chromatography					
EH	Extractable Hydrocarbons (i.e. everything extr	acted by the solvent(s))				
CU	Clean-up - e.g. by Florisil®, silica gel					
1D	GC - Single coil/column gas chromatography					
2D	GC-GC - Double coil/column gas chromatography					
Total	Aliphatics & Aromatics					
AL	Aliphatics					
AR	Aromatics					
#1	EH_2D_Total but with humics mathematically subtracted					
#2	EH 2D Total but with fatty acids mathematically subtracted					
_	Operator - understore to separate acronyms (exception for +)					
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total					



Analytical Report Number : 22-12888

Project / Site name: Kenley Campus

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP10	ES1	S	2530761	с	Total cyanide in soil	L080-PL	с
TP5	ES1	S	2530763	с	Total cyanide in soil	L080-PL	с
TP7	ES1	S	2530762	с	Total cyanide in soil	L080-PL	с



4041

Helen Gardiner

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Analytical Report Number : 23-11045

Project / Site name:	Kenley campus	Samples received on:	10/01/2023
Your job number:	CG 39415	Samples instructed on/ Analysis started on:	10/01/2023
Your order number:	12254	Analysis completed by:	16/01/2023
Report Issue Number:	1	Report issued on:	16/01/2023
Samples Analysed:	2 water samples		

Nonja Signed:

i2 Analytical Ltd.

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Dominika Warjan Junior Reporting Specialist For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting	
leachates	- 2 weeks from reporting	
waters	- 2 weeks from reporting	
asbestos	- 6 months from reporting	J

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.







Analytical Report Number: 23-11045 Project / Site name: Kenley campus

Vous Ordon	Net	12254	

Your Order No: 12254					
Lab Sample Number				2549848	2549849
Sample Reference				WS1	WS5
Sample Number				None Supplied	None Supplied
Depth (m)				1.45	3.90
Date Sampled				09/01/2023	09/01/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status		

pH	pH Units	N/A	ISO 17025	7.5	7.2
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0
Sulphate as SO4	µg/l	45	ISO 17025	47000	80700
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	25	59
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	2.9	3.99
Hardness - Total	3/I	1	ISO 17025	288	306

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	1.8	1.6

Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01

Total PAH					
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16

Heavy Metals / Metalloids

Boron (dissolved)	µg/l	10	ISO 17025	98	28
Calcium (dissolved)	mg/l	0.012	ISO 17025	100	110
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0
Magnesium (dissolved)	mg/l	0.005	ISO 17025	7.7	5





Analytical Report Number: 23-11045 Project / Site name: Kenley campus

Your Order No: 12254

1001 Older No. 12234					
Lab Sample Number	2549848	2549849			
Sample Reference	WS1	WS5			
Sample Number				None Supplied	None Supplied
Depth (m)				1.45	3.90
Date Sampled				09/01/2023	09/01/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status		
Antimony (dissolved)	µg/l	0.4	ISO 17025	0.5	0.5
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.27	0.32
Barium (dissolved)	µg/l	0.06	ISO 17025	39	48
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	0.03
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.4	< 0.2
Copper (dissolved)	µg/l	0.5	ISO 17025	1.9	1.9
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	< 0.5	1.8
Selenium (dissolved)	µg/l	0.6	ISO 17025	4.7	4.8
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.4	< 0.2
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.7	5.3

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6 HS_1D_AL	µg/l	1	NONE	< 1.0*	< 1.0*
TPH-CWG - Aliphatic >C6 - C8 HS_1D_AL	µg/l	1	NONE	< 1.0*	< 1.0*
TPH-CWG - Aliphatic >C8 - C10 HS_1D_AL	µg/l	1	NONE	< 1.0*	< 1.0*
TPH-CWG - Aliphatic >C10 - C12 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) HS+EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10

TPH-CWG - Aromatic >C5 - C7 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12 EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic >C12 - C16 EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic >C16 - C21 EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) HS+EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.





Analytical Report Number : 23-11045 Project / Site name: Kenley campus

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	w	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, AI=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	w	ISO 17025
Boron in water	Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	w	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	w	ISO 17025
Monohydric phenols in water - LOW LEVEL 1 ug/l	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	w	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	w	ISO 17025
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	w	ISO 17025
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	w	ISO 17025
Dissolved Organic Carbon in water	Determination of dissolved inorganic carbon in water by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	w	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	w	ISO 17025
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the discrete analyser (colorimetric) salicy/ate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Cr (III) in water	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	w	NONE





Analytical Report Number : 23-11045 Project / Site name: Kenley campus

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Low level total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	w	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	w	ISO 17025

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD). For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland. Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC. Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

APPENDIX J

Geotechnical Analysis Results





Andrew Bond Card Geotechnics Ltd 4 Godalming Business Centre Woolsack Way Godalming Surrey GU7 1XW

t: 01483 310600 **f:** 01483 527285

e: AndrewB@cgl-uk.com

Analytical Report Number : 23-10535

Project / Site name:	Kenley Campus	Samples received on:	12/12/2022
Your job number:	CG 39415	Samples instructed on/ Analysis started on:	06/01/2023
Your order number:	POP012227	Analysis completed by:	12/01/2023
Report Issue Number:	1	Report issued on:	12/01/2023
Samples Analysed:	9 soil samples		

Izabela Wojcik Signed:

Izabela Wójcik Reporting Specialist For & on behalf of i2 Analytical Ltd.

i2 Analytical Ltd.

Croxley Green

Business Park,

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t: 01923 225404

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7 Woodshots Meadow,

e: reception@i2analytical.com

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.





Analytical Report Number: 23-10535 Project / Site name: Kenley Campus Your Order No: POP012227

Lab Sample Number				2547068	2547069	2547070	2547071	2547072
Sample Reference				TP2	TP2	TP5	TP4	TP6
Sample Number				1	2	2	2	2
Depth (m)				0.20	0.50	2.90	2.30	1.80
Date Sampled				07/12/2022	07/12/2022	06/12/2022	07/12/2022	06/12/2022
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	14	25	16	16
Total mass of sample received	kg	0.001	NONE	1	1	1	1	1

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	8.2	8.8	7.8	8.3
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	0.01	0.0062	0.01	0.01	0.013
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	10	6.2	10	10	13
Water Soluble SO4 16nr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0051	0.0031	0.0051	0.005	0.0067

 $\label{eq:US} U/S = Unsuitable \ Sample \quad I/S = \ Insufficient \ Sample \quad ND = Not \ detected$





Analytical Report Number: 23-10535 Project / Site name: Kenley Campus Your Order No: POP012227

Lab Sample Number				2547073	2547074	2547075	2547076
Sample Reference				TP9	WS2	WS5	WS9
Sample Number				1	1	2	2
Depth (m)				0.20	0.10	0.40	1.20
Date Sampled				06/12/2022	09/12/2022	08/12/2022	08/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	13	15	21
Total mass of sample received	kg	0.001	NONE	1	1	0.9	1

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.8	9.3	10.2	8.5
Water Soluble Sulphate (Soil Equivalent)	g/kg	0.0025	MCERTS	0.28	0.14	0.81	0.13
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	280	140	810	130
Water Soluble SO4 1667 extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.14	0.069	0.4	0.066

 $\label{eq:US} U/S = Unsuitable \ Sample \quad I/S = \ Insufficient \ Sample \quad ND = Not \ detected$





Analytical Report Number : 23-10535 Project / Site name: Kenley Campus

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2547068	TP2	1	0.2	Brown loam and sand with gravel and chalk.
2547069	TP2	2	0.5	Brown clay and sand with gravel.
2547070	TP5	2	2.9	Light brown clay and sand with chalk.
2547071	TP4	2	2.3	Brown clay and sand.
2547072	TP6	2	1.8	Brown clay and sand.
2547073	TP9	1	0.2	Beige clay with gravel and chalk.
2547074	WS2	1	0.1	Brown loam and sand with gravel and vegetation.
2547075	WS5	2	0.4	Beige clay with gravel and chalk.
2547076	WS9	2	1.2	Brown clay with gravel.





Analytical Report Number : 23-10535 Project / Site name: Kenley Campus

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Moisture Content	Molsture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride). For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland. Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture

correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC. Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



Analytical Report Number : 23-10535 Project / Site name: Kenley Campus

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP2	1	S	2547068	с	pH in soil (automated)	L099-PL	с
TP2	2	S	2547069	с	pH in soil (automated)	L099-PL	с
TP4	2	S	2547071	с	pH in soil (automated)	L099-PL	с
TP5	2	S	2547070	с	pH in soil (automated)	L099-PL	с
TP6	2	S	2547072	с	pH in soil (automated)	L099-PL	с
TP9	1	S	2547073	с	pH in soil (automated)	L099-PL	с
WS2	1	S	2547074	с	pH in soil (automated)	L099-PL	с
WS5	2	S	2547075	с	pH in soil (automated)	L099-PL	с
WS9	2	S	2547076	с	pH in soil (automated)	L099-PL	с



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 08/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at i	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539038	Depth Top [m]: 1.50
Hole No.:	WS5	Depth Base [m]: Not Given
Sample Reference:	1	Sample Type: D

Sample Description: Brown slightly gravelly sandy CLAY

Sample Preparation: Tested after washing to remove >425um

As Received WaterLiquid LimitPlastic LimitPlasticity Index% Passing 425µmContent [W]%[WL]%[Wp]%[Ip]%BS Test Sieve1936171975



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed: Duolaiúska



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 08/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539039	Depth Top [m]: 2.50
Hole No.:	WS5	Depth Base [m]: Not Given
Sample Reference:	3	Sample Type: D

Sample Description: Yellowish brown slightly gravelly slightly sandy CLAY

Sample Preparation: Tested after >425um removed by hand

As Received WaterLiquid LimitPlastic LimitPlasticity Index% Passing 425µmContent [W] %[WL] %[Wp] %[Ip] %BS Test Sieve2454193594



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Duolaiúska



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference:
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 2
	Godalming, Surrey,	Date Sampled:
	GU7 1XW	Date Received:
Contact:	Andrew Bond	Date Tested: 2
Site Address:	Kenley Campus	Sampled By:
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539040	Depth Top [m]:
Hole No.:	WS5	Depth Base [m]:
Sample Reference:	5	Sample Type:

Yellowish brown slightly gravelly sandy CLAY Sample Description:

CG 39415 22-14123 08/12/2022 08/12/2022 28/12/2022 Client - ADB

3.70 Not Given Sample Type: D

Tested after >425um removed by hand Sample Preparation:

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
22	37	19	18	99



Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Signed: Dudaińska



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 09/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539041	Depth Top [m]: 1.50
Hole No.:	WS2	Depth Base [m]: Not Given
Sample Reference:	1	Sample Type: D
Sample Description:	Yellowish brown slightly sandy CLAY	

Tested in natural condition Sample Preparation:

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
23	45	19	26	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Dudaińska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 09/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at iz	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539042	Depth Top [m]: 2.00
Hole No.:	WS2	Depth Base [m]: Not Given
Sample Reference:	2	Sample Type: D
Sample Description:	Yellowish brown sandy CLAY	

Sample Preparation: Tested in natural condition

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
22	39	20	19	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This

Signed: Duotaińska Auma



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 09/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539043	Depth Top [m]: 2.50
Hole No.:	WS2	Depth Base [m]: Not Given
Sample Reference:	3	Sample Type: D
Sample Description:	Yellowish brown sandy CLAY	

Sample Preparation: Tested in natural condition

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
26	44	22	22	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Dudkalijska



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference:	CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number:	22-14123
	Godalming, Surrey,	Date Sampled:	08/12/2022
	GU7 1XW	Date Received:	08/12/2022
Contact:	Andrew Bond	Date Tested:	28/12/2022
Site Address:	Kenley Campus	Sampled By:	Client - AD
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
Test Results:			
Laboratory Reference:	2539044	Depth Top [m]:	1.50
Hole No.:	WS7	Depth Base [m]:	Not Given
Sample Reference:	1	Sample Type:	D

Yellowish brown slightly gravelly slightly sandy CLAY Sample Description:

Tested after washing to remove >425um Sample Preparation:

22-14123 08/12/2022 08/12/2022 28/12/2022 Client - ADB

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
20	48	23	25	83



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Dudaińska



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Card Geotechnics Ltd Client Reference: CG 39415 Client: **Client Address:** 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW Contact: Andrew Bond Site Address: Kenley Campus Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland **Test Results:** Laboratory Reference: 2539045 WS7 Hole No .:

Sample Reference: 2 Orangish brown slightly gravelly CLAY Sample Description:

Sample Preparation: Tested after washing to remove >425um

Job Number: 22-14123 Date Sampled: 08/12/2022 Date Received: 08/12/2022 Date Tested: 28/12/2022 Sampled By: Client - ADB

Depth Top [m]: 2.00 Depth Base [m]: Not Given Sample Type: D

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
34	68	36	32	90



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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0

Organic

Signed: Dudaińską

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Auna

append to classification for organic material (eg CIHO)



DETERMINATION OF LIQUID AND PLASTIC LIMITS Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

LIMITS B and 5 Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

i2 Analytical Ltd



23 2022 2022 2022
2022 2022 2022
2022
2022
1022
- ADB
ven

Sample Preparation: Tested in natural condition

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
36	83	31	52	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Dudkalijska



DETERMINATION OF LIQUID AND PLASTIC LIMITS Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number
	Godalming, Surrey,	Date Sampled
	GU7 1XW	Date Received
Contact:	Andrew Bond	Date Tested
Site Address:	Kenley Campus	Sampled By
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539047	Depth Top [m]
Hole No.:	WS4	Depth Base [m]
Sample Reference:	1	Sample Type

Sample Description: Orangish brown slightly gravelly CLAY

Tested after washing to remove >425um Sample Preparation:

: CG 39415 r: 22-14123 1: 09/12/2022 1: 08/12/2022 : 28/12/2022 : Client - ADB

1.40 : Not Given Sample Type: D

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
37	72	34	38	67



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Dudaińska



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Card Geotechnics Ltd Client Reference: CG 39415 Client: Client Address: Job Number: 22-14123 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, Date Sampled: 09/12/2022 GU7 1XW Date Received: 08/12/2022 Contact: Andrew Bond Date Tested: 28/12/2022 Site Address: Kenley Campus Sampled By: Client - ADB Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland **Test Results:** Laboratory Reference: 2539048 Depth Top [m]: 2.40 WS4 Depth Base [m]: Not Given Hole No .: Sample Reference: 2 Sample Type: D

Sample Description: Yellowish brown slightly gravelly slightly sandy CLAY

Sample Preparation: Tested after >425um removed by hand

As Received Water
Content [W]%Liquid Limit
[WL]%Plastic Limit
Plastic Limit
[Wp]%Plasticity Index
[Ip]%% Passing 425µm
BS Test Sieve2359263364



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Duokailiska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 09/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539049	Depth Top [m]: 3.00
Hole No.:	WS4	Depth Base [m]: Not Given
Sample Reference:	3	Sample Type: D

Orangish brown slightly gravelly slightly sandy CLAY Sample Description:

Tested after washing to remove >425um Sample Preparation:

As Received Water Liquid Limit Plastic Limit Plasticity Index % Passing 425µm Content [W]% **BS Test Sieve** [WL]% [Wp]% [lp]% 23 58 27 31 95



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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0

Organic

append to classification for organic material (eg CIHO)

for and on behalf of i2 Analytical Ltd



Sample Description:

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Unit 8 Harrowden Road Brackmills Industrial Estate Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5 Northampton NN4 7EB

i2 Analytical Ltd



Card Geotechnics Ltd Client Reference: CG 39415 Client: **Client Address:** 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW Contact: Andrew Bond Site Address: Kenley Campus Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland **Test Results:** Laboratory Reference: 2539050 Depth Top [m]: 1.50 WS11 Hole No .: Sample Reference: 1

Sample Preparation: Tested after washing to remove >425um

Orangish brown slightly gravelly CLAY

Job Number: 22-14123 Date Sampled: 09/12/2022 Date Received: 08/12/2022 Date Tested: 28/12/2022 Sampled By: Client - ADB

Depth Base [m]: Not Given Sample Type: D

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
28	61	27	34	93



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Dudaińską

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd



DETERMINATION OF LIQUID AND PLASTIC LIMITS Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd ITS Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 09/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539051	Depth Top [m]: 2.50
Hole No.:	WS11	Depth Base [m]: Not Given
Sample Reference:	2	Sample Type: D
Sample Description:	Yellowish brown CLAY	

Sample Preparation: Tested in natural condition

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
44	98	38	60	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Dudkalijska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Anna



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 09/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539052	Depth Top [m]: 3.50
Hole No.:	WS11	Depth Base [m]: Not Given
Sample Reference:	3	Sample Type: D

Sample Description: Orangish brown to dark brown slightly gravelly CLAY

Sample Preparation: Tested after washing to remove >425um

 As Received Water
 Liquid Limit
 Plastic Limit
 Plasticity Index
 % Passing 425µm

 Content [W] %
 [WL] %
 [Wp] %
 [Ip] %
 BS Test Sieve

 40
 111
 49
 62
 90



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Duolaiúska



Sample Description:

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Card Geotechnics Ltd Client Reference: CG 39415 Client: Client Address: Job Number: 22-14123 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, Date Sampled: 06/12/2022 GU7 1XW Date Received: 08/12/2022 Contact: Andrew Bond Date Tested: 28/12/2022 Site Address: Kenley Campus Sampled By: Client - ADB Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland **Test Results:** Laboratory Reference: 2539053 Depth Top [m]: 1.00 TP5 Depth Base [m]: Not Given Hole No .: Sample Reference: 1 Sample Type: D

Sample Preparation: Tested after washing to remove >425um

Yellowish brown slightly gravelly CLAY

 As Received Water
 Liquid Limit
 Plastic Limit
 Plasticity Index
 % Passing 425µm

 Content [W]%
 [WL]%
 [Wp]%
 [Ip]%
 BS Test Sieve

 42
 83
 37
 46
 94



Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Signed: Duokaliska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd



Sample Description:

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference: CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number: 22-14123
	Godalming, Surrey,	Date Sampled: 06/12/2022
	GU7 1XW	Date Received: 08/12/2022
Contact:	Andrew Bond	Date Tested: 28/12/2022
Site Address:	Kenley Campus	Sampled By: Client - ADB
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2539054	Depth Top [m]: 1.10
Hole No.:	ТР9	Depth Base [m]: Not Given
Sample Reference:	1	Sample Type: D

Orangish brown slightly gravelly slightly sandy CLAY

Tested after >425um removed by hand Sample Preparation:

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425μm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
26	50	24	26	99



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: Dudaińska



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Card Geotechnics Ltd	Client Reference:	CG 39415
Client Address:	4 Godalming Business Centre, Woolsack Way,	Job Number:	22-14123
	Godalming, Surrey,	Date Sampled:	07/12/2022
	GU7 1XW	Date Received:	08/12/2022
Contact:	Andrew Bond	Date Tested:	28/12/2022
Site Address:	Kenley Campus	Sampled By:	Client - AD
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
Test Results:			
Laboratory Reference:	2539055	Depth Top [m]:	2.30
Hole No.:	TP4	Depth Base [m]:	Not Given
Sample Reference:	1	Sample Type:	D

Yellowish brown slightly gravelly sandy CLAY Sample Description:

Tested after >425um removed by hand Sample Preparation:

2/2022 2/2022 2/2022 nt - ADB

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
23	43	20	23	98



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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0

Organic

Signed: Dudaińska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

append to classification for organic material (eg CIHO)

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client Reference: CG 39415 Job Number: 22-14123 Date Sampled: 08/12 - 09/12/2022 Date Received: 08/12/2022 Date Tested: 28/12/2022 Sampled By: Client - ADB

 4041

 Client:
 Card Geotechnics Ltd
 Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990:

 Client Address:
 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW
 Water Content by BS 1377-2: 1990: Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

 Contact:
 Andrew Bond
 Kater Content by BS 1377-2: 1990: Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 8.2

Site Address: Kenley Campus

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

TESTING

			Sample	e			ription Remarks		ntent [W] ntent		tent 892-2	Atterberg				Density			#	
Laboratory Reference	Hole No.	Reference	Depth Top	Depth Base	Туре	Description			Remarks	Remarks	Water Con BS 1377-2 [Water Con BS EN ISO 17 F W 1	% Passing 425um	WL	Wp	lp	bulk	dry	PD	Total Porosity
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%			
2539038	WS5	1	1.50	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		75	36	17	19							
2539039	WS5	3	2.50	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	24		94	54	19	35							
2539040	WS5	5	3.70	Not Given	D	Yellowish brown slightly gravelly sandy CLAY	Atterberg 4 Point	22		99	37	19	18							
2539041	WS2	1	1.50	Not Given	D	Yellowish brown slightly sandy CLAY	Atterberg 4 Point	23		100	45	19	26							
2539042	WS2	2	2.00	Not Given	D	Yellowish brown sandy CLAY	Atterberg 4 Point	22		100	39	20	19							
2539043	WS2	3	2.50	Not Given	D	Yellowish brown sandy CLAY	Atterberg 4 Point	26		100	44	22	22							
2539044	WS7	1	1.50	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	20		83	48	23	25							
2539045	WS7	2	2.00	Not Given	D	Orangish brown slightly gravelly CLAY	Atterberg 4 Point	34		90	68	36	32							
2539046	WS7	3	2.40	Not Given	D	Orangish brown CLAY	Atterberg 4 Point	36		100	83	31	52							
2539047	WS4	1	1.40	Not Given	D	Orangish brown slightly gravelly CLAY	Atterberg 4 Point	37		67	72	34	38							

Note: # Non accredited; NP - Non plastic

Comments:

Signed:



Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client Reference: CG 39415 Job Number: 22-14123 Date Sampled: 06/12 - 09/12/2022 Date Received: 08/12/2022 Date Tested: 28/12/2022 Sampled By: Client - ADB

 4041

 Client:
 Card Geotechnics Ltd
 Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990:

 Client Address:
 4 Godalming Business Centre, Woolsack
Way,
Godalming, Surrey,
GUT 1XW
 Water Content by BS 1377-2: 1990: Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2:
1990: Clause 8.2

 Contact:
 Andrew Bond
 Kater Content by BS 1377-2: 1990: Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2:
1990: Clause 8.2

Site Address: Kenley Campus

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

TESTING

			Sampl	e				tent [W]	tent '892-2		Atte	rberg			Density	ensity		
Laboratory Reference	Hole No.	Reference	Depth Top	Depth Base	Туре	Description	Remarks	Water Con BS 1377-2 [Water Con BS EN ISO 17 [W]	% Passing 425um	WL	Wp	lp	bulk	dry	PD	Total Porosity	
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%	
2539048	WS4	2	2.40	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	23		64	59	26	33					
2539049	WS4	3	3.00	Not Given	D	Orangish brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	23		95	58	27	31					
2539050	WS11	1	1.50	Not Given	D	Orangish brown slightly gravelly CLAY	Atterberg 4 Point	28		93	61	27	34					
2539051	WS11	2	2.50	Not Given	D	Yellowish brown CLAY	Atterberg 4 Point	44		100	98	38	60					
2539052	WS11	3	3.50	Not Given	D	Orangish brown to dark brown slightly gravelly CLAY	Atterberg 4 Point	40		90	111	49	62					
2539053	TP5	1	1.00	Not Given	D	Yellowish brown slightly gravelly CLAY	Atterberg 4 Point	42		94	83	37	46					
2539054	TP9	1	1.10	Not Given	D	Orangish brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	26		99	50	24	26					
2539055	TP4	1	2.30	Not Given	D	Yellowish brown slightly gravelly sandy CLAY	Atterberg 4 Point	23		98	43	20	23					

Note: # Non accredited; NP - Non plastic

Comments:

Signed: Dugiziliska

Anna

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client Reference: CG 39415 Job Number: 22-14123 Date Sampled: 08/12 - 09/12/2022 Date Received: 08/12/2022 Date Tested: 28/12/2022 Sampled By: Client - ADB

4041Client:Card Geotechnics LtdClient Address:4 Godalming Business Centre, Woolsack Way,
Godalming, Surrey,
GU7 1XWContact:Andrew BondSite Address:Kenley CampusTesting carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

TESTING

			Sample	5							
Laboratory Reference	Hole No.	Reference	Depth Top m	Depth Base m	Туре	Description	Remarks	wc %	Sample preparation / Oven temperature at the time of testing		
2539038	WS5	1	1.50	Not Given	D	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 106.2 °C		
2539039	WS5	3	2.50	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY		24	Sample was quartered, oven dried at 106.2 °C		
2539040	WS5	5	3.70	Not Given	D	Yellowish brown slightly gravelly sandy CLAY		22	Sample was quartered, oven dried at 106.2 °C		
2539041	WS2	1	1.50	Not Given	D	Yellowish brown slightly sandy CLAY		23	Sample was quartered, oven dried at 106.2 °C		
2539042	WS2	2	2.00	Not Given	D	Yellowish brown sandy CLAY		22	Sample was quartered, oven dried at 106.2 °C		
2539043	WS2	3	2.50	Not Given	D	Yellowish brown sandy CLAY		26	Sample was quartered, oven dried at 106.2 °C		
2539044	WS7	1	1.50	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY		20	Sample was quartered, oven dried at 106.2 °C		
2539045	WS7	2	2.00	Not Given	D	Orangish brown slightly gravelly CLAY		34	Sample was quartered, oven dried at 106.2 °C		
2539046	WS7	3	2.40	Not Given	D	Orangish brown CLAY		36	Sample was quartered, oven dried at 106.2 °C		
2539047	WS4	1	1.40	Not Given	D	Orangish brown slightly gravelly CLAY		37	Sample was quartered, oven dried at 106.2 °C		

Comments:

Signed:



Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client Reference: CG 39415 Job Number: 22-14123 Date Sampled: 06/12 - 09/12/2022 Date Received: 08/12/2022 Date Tested: 28/12/2022 Sampled By: Client - ADB

4041Client:Card Geotechnics LtdClient Address:4 Godalming Business Centre, Woolsack Way,
Godalming, Surrey,
GU7 1XWContact:Andrew BondSite Address:Kenley CampusTesting carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

TESTING

			Sample	e							
Laboratory Reference	Hole No.	Reference	Depth Top m	Depth Base m	Туре	Description	Remarks	wc %	Sample preparation / Oven temperature at the time of testing		
2539048	WS4	2	2.40	Not Given	D	Yellowish brown slightly gravelly slightly sandy CLAY		23	Sample was quartered, oven dried at 107.9 °C		
2539049	WS4	3	3.00	Not Given	D	Orangish brown slightly gravelly slightly sandy CLAY		23	Sample was quartered, oven dried at 106.2 °C		
2539050	WS11	1	1.50	Not Given	D	Orangish brown slightly gravelly CLAY		28	Sample was quartered, oven dried at 106.2 °C		
2539051	WS11	2	2.50	Not Given	D	Yellowish brown CLAY		44	Sample was quartered, oven dried at 107 °C		
2539052	WS11	3	3.50	Not Given	D	Orangish brown to dark brown slightly gravelly CLAY		40	Sample was quartered, oven dried at 106.2 °C		
2539053	TP5	1	1.00	Not Given	D	Yellowish brown slightly gravelly CLAY		42	Sample was quartered, oven dried at 106.8 °C		
2539054	TP9	1	1.10	Not Given	D	Orangish brown slightly gravelly slightly sandy CLAY		26	Sample was quartered, oven dried at 106.2 °C		
2539055	TP4	1	2.30	Not Given	D	Yellowish brown slightly gravelly sandy CLAY		23	Sample was quartered, oven dried at 106.2 °C		

Comments:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



Anna

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Page 1 of 1

Date Reported: 04/01/2023 GF 099.16

(Lin)	
(3)	
TESTING	
4041	

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Clier	nt:			Card Ge	eotechni	cs Ltd						Client Refe	rence: CG	39415
Clier	nt Ado	dress:		4 Godal Godalm GU7 1X	lming Bu ling, Suri W	siness Ce rey,	entre, Woo	lsack Way,			Job Nu Date Sar Date Rec	umber: 22- mpled: 06/ ceived: 08/	14123 12/2022 12/2022	
Con	tact:			Andrew	Bond							Date T	ested: 28/	12/2022
Site	Addre	ess:		Kenley	Campus							Sampl	ed By: Clie	ent - ADB
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland														
Tes	t Res	sults:												
Laboratory Reference: 2539031 Depth Top [m									op [m]: 0.6	0				
Hole No.: TP6 Dep								Depth Bas	se [m]: Not	Given				
Sam	ample Reference: 1										Sample	Type: B		
Sam	ample Description: Yellowish brown silty CLAY													
Sam	ple P	repara	tion:	Sample	was qua	artered, ov	en dried a	t 107.9 °C an	d broken (down by ha				
		CLAY	Fin	e Me	edium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	100													
	90 -									╺┠━━┿━━┿	-			
	80 -													
	70													
%	10 1													
ng	60 -					/								
assi	50													
പ്	40 -													
itag	30													
Cer	50													
Pel	20 -													
	10 -								· · · · · · · · · · · · · · · · · · ·					
	0													
	0.0	01		0.	.01		0.1	Partie	cle Size	mm	10		100	1000
				Sieving Sedimentation						Sample Proportions %		% dry mass		

01011	ing	eeanne	manon
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0642	75
300	100	0.0461	71
150	100	0.0336	64
125	100	0.0246	55
90	100	0.0180	45
75	100	0.0134	38
63	100	0.0015	13
50	100		
37.5	100		
28	100		
20	98		
14	97		
10	95		
6.3	93		
5	92		
3.35	91	Particle density	(assumed)
2	91	2.65	Mg/m3
1.18	90		
0.6	88		
0.425	88		
0.3	87		
0.212	85		
0.15	83]	
0.063	75]	
Tested in Accordar	nce with BS1377		es 9.2 and 9.5

Sample Proportions	% dry mass
Very coarse	0
Gravel	9
Sand	15
Silt	60
Clay	16

Grading Analysis		
D100	mm	28
D60	mm	0.0295
D30	mm	0.00684
D10	mm	
Uniformity Coefficient		> 19
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed: Duqiziinska



DETERMINATION OF PARTICLE SIZE DISTRIBUTION Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Clie	nt:		(Card C	Geotechn	ics Ltd									Client Re	eference: CO	Э 39415			
Clie	nt Ad	dress:	(4 Goda Godalı GU7 1	alming B ning, Su XW	usiness Ce rrey,	entre, Woo	lsack V	Way,						Job Date S Date R	Number: 22 Sampled: 07 Seceived: 08	14123 /12/2022 8/12/2022	2		
Con	tact:		/	Andrev	w Bond										Date	e Tested: 28	/12/2022	2		
Site	Addr	ess:	ł	Kenley	/ Campu	S									Sam	npled By: Cl	ient - AD	В		
Tes	ting c	arried ou	ıt at i2 J	Analyt	ical Limit	ted, ul. Pio	nierow 39,	41-71	1 Ruda	Slas	ska, P	oland								
Tes	st Re	sults:																		
Lab	orator	y Refere	ence: 2	25390	32										Depth	Top [m]: 2.	10			
Hole	e No.:		-	ГРЗ											Depth E	Base [m]: No	ot Given			
San	Sample Reference: 2					Sample														
San	nple D	escriptic	on: (Orang	ish browı	n silty CLA	Y													
San	nple F	reparatio	on: S	Sampl	e was qu	artered, ov	/en dried a	at 107.9	9 °C an	d bro	oken o	lown by	han	d.		_				
		CLAY	- :		SILT	•	-	S	AND					GRAVEL		COBBLES	BOUL	DERS		
	100 -		Fine		viedium	Coarse	Fine			0	arse		e i	Medium			·	,		
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	90 -																			
	80 -			++++													+ + +	+++		
	70 -								_											
%	60																			
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Ice	20																			
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	10 -			++++							_									
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	0.0	01		(0.01		0.1		Parti	cle S	ize	mm		10		100			1000	
			Siev	ing			Sedime	entatio	n				Sam	ple Prop	ortions		% dry m	nass		
	Particle Size mm % Passing P				Particle	Size mm	%	Passing	g		Very c	oarse	Э			0				
	500				100		0614			Gravel				16						

Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0614	78
300	100	0.0438	76
150	100	0.0315	72
125	100	0.0226	68
90	100	0.0162	65
75	100	0.0120	61
63	100	0.0013	54
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	96		
6.3	95		
5	94		
3.35	94	Particle density	(assumed)
2	93	2.65	Mg/m3
1.18	93		
0.6	91	1	
0.425	90		
0.3	89		
0.212	86		
0.15	83]	
0.063	78]	

Sample Proportions	% dry mass
Very coarse	0
Gravel	7
Sand	16
Silt	22
Clay	55

Grading Analysis		
D100	mm	20
D60	mm	0.00921
D30	mm	
D10	mm	
Uniformity Coefficient		> 7
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed: Duqiziinska



DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Clie	ent:			Card	Geotech	nics	Ltd																	Clie	ent I	Ref	erer	nce	: C0	G 39	415	5		
Clie	ent Ad	ldress:		4 God Godal GU7 1	lalming E Iming, Su IXW	Busir urrey	ness /,	s Ce	ntro	e, Wo	olsa	ack	Wa	ι y ,										[[Jo Date Date	b N Sa Re	um Imp ceiv	ber ·led vec	": 22 : 07 : 08	'-141 '/12/: 3/12/:	.23 202 202	22 22		
Co	ntact:			Andre	w Bond																				Da	ate	Tes	ted	: 28	3/12/2	202	2		
Site	e Addr	ress:		Kenle	y Campu	JS																			Sa	amp	led	Вy	: Cl	ient	- Al	DВ		
Tes	sting c	carried o	out at i2	Analy	tical Lim	ited,	ul.	Pior	nier	ow 39), 41	1-71	11 F	Ruda	a Sl	las	ka, F	20	land															
Те	st Re	sults:																																
Lat	oorato	ry Refer	ence:	25390)33																			0	Dept	th T	ор	[m]	: 2.	00				
Ho	le No.:	:		TP11																				De	epth	n Ba	se	[m]	: No	ot Gi	ver	I		
Sa	mple F	Referen	ce:	1																					Sar	npl	e Ty	уре	: В					
Sa	mple [Descript	ion:	Yellov	vish brov	vn C	LAY	/																										
Sa	mple F	Preparat	ion:	Samp	le was q	uarte	ered	l, ov	en	dried	at 1	07.	.9 °(C ai	nd k	bro	ken o	do	own by ha	and														
		CLAY			SILT	-						S	SAN	D						_	GF	AVE	L				со	COBBLES			BOU	JLDE	RS	
	100		Fine		Medium	C	Coars	se		Fine		М	ediu	m		Coa	arse	_	Fine		Me	dium	1	Cc	arse	e								
	100																						_					Ī						
	90	1 1				1						_			÷		-	-								1		Ħ	++	-	+			+++
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cen	30																																	
Per	20					-									++			_					_					†		+	+	+	++	
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	0															Ш																		Ш
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	Sieving							S	Sedim	enta	atic	on						Sa	Imp	ole	Pro	por	tion	s			_		% c	lry	mas	s		
	Pa	rticle Siz	icle Size mm % Passing Particle Size mm					%	Ра	ssir	าต			`	Very coar	se											0							
	500 400			100	_∦		0.0	100	2	1					\neg		9	Gravel												11				
		200			100	_∦		0.0623				79			\neg																			
	150 100					—∦		0.0)31	7	+		7	5		\neg		Clav 66																
	150						0.0			1			-	_			Ciay Di						_	_										

73

71

71

65

(assumed)

Mg/m3

Grading Analysis	5	
D100	mm	28
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		N/A
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5 Remarks:

125

90

75

63

50

37.5

28

20

14

10

6.3

5

3.35

2

1.18

0.6

0.425

0.3

0.212

0.15

0.063

100

100

100

100

100

100

100

97

95

93

91

91

90

89

88

88

88

87

85

83

79

0.0226

0.0161

0.0117

0.0013

Particle density

2.65

Signed:

Anna Dudzinska Dudaińska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd Anna



DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:			Car	d Geotechi	nics Ltd						Client Re	eference: CO	G 39415
Client	Address:		4 G Goo GU	odalming E dalming, Su 7 1XW	Business Ce Irrey,	entre, Woo	olsack W	/ay,			Job Date S Date R	Number: 22 Sampled: 07 Received: 08	-14123 /12/2022 /12/2022
Contac	ct:		Anc	rew Bond							Date	e Tested: 28	/12/2022
Site Ad	dress:		Ker	nley Campu	IS						Sam	npled By: Cli	ent - ADB
Testin	g carried	out at l	i2 Ana	alytical Lim	ited, ul. Piol	nierow 39	, 41-711	Ruda Slaska,	Polan	nd			
Test F	Results:												
Labora	tory Refe	rence:	253	9034							Depth	Top [m]: 2.9	90
Hole N	lo.:		TP2	2							Depth E	Base [m]: No	ot Given
Sampl	e Referer	ice:	1								Sam	ole Type: B	
Sampl	e Descrip	tion:	Yell	lowish brow	/n sandy Cl	AY							
Sampl	e Prepara	tion:	Sar	nple was q	uartered, ov	en dried	at 107.9	°C and broker	n dowr	n by hand.		1	
	CLAY			SILT	0	Fire	SA	ND	_	GRAVEL	0	COBBLES	BOULDERS
10	0			wealum	Coarse	rine	Mec		-	Fine Medium		╷ ━ _{╋┯╋┯} ╋┯╋╼╋	· · · · · · · · · · · · · · · · · · ·
0													
9													
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≶ ⊡ 61	0												
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s 5													
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2													
υ - Υ													
10	0												
(0 🖵												
F	0.001			0.01		0.1		Particle Size	mm	10		100	1000

Slev	ing	Sedime	ntation
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	95		
10	91		
6.3	89		
5	88		
3.35	87		
2	87		
1.18	86		
0.6	85		
0.425	84		
0.3	82		
0.212	76		
0.15	70]	
0.063	58		
Tostod in Accorda	nco with BS127	7. Port 2.1000 cloue	. 0.2

Sample Proportions	% dry mass
Very coarse	0
Gravel	13
Sand	28
Fines <0.063mm	58

Grading Analysis		
D100	mm	28
D60	mm	0.0709
D30	mm	
D10	mm	
Uniformity Coefficient		> 1.1
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Test

Remarks:

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Signed: Dupaniska

(Lin)	
(3)	
TESTING	
4041	

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Clie	ent:		(Card Geotec	hnics Ltd							Client Ret	ference: CG	39415			
Clie	ent Ado	dress:	(4 Godalming Godalming, S GU7 1XW	Business Co Surrey,	entre, Woo	lsack Way	,				Job N Date S Date Re	Number: 22- ampled: 07/ eceived: 08/	14123 12/2022 12/2022			
Cor	ntact:			Andrew Bond	1							Date	Tested: 28/	12/2022			
Site	Addre	ess:	I	Kenley Camp	ous							Sam	pled By: Clie	ent - ADB			
Tes	ting ca	arried ou	t at i2 .	Analytical Lir	nited, ul. Pio	nierow 39,	41-711 R	uda Slas	ska, P	oland							
Tes	st Res	sults:															
Lab	orator	y Refere	nce: 2	2539035								Depth ⁻	Top [m]: 3.0	0			
Testing carried out at Test Results: Laboratory Reference Hole No.: Sample Reference: Sample Description: Sample Preparation: CLAY Fin 100 90 80		-	TP1								Depth B	ase [m]: Not	se [m]: Not Given				
Sar	nple R	Reference	e: 2	2								Samp	le Type: B				
Sar	nple D	Descriptio	n: `	Yellowish bro	wn CLAY												
Sar	nple P	reparatio	on: S	Sample was	quartered, o	ven dried a	t 107.9 °C	and bro	oken d	lown by ha	nd.						
				SILT			SAND				GRAVEL		COBBLES	BOULDERS			
	100 -		Fine	Medium	Coarse	Fine	Mediur	n Co	barse	Fine	Medium	Coarse					
	00																
	30							┢╋╋┿	_								
	80 -																
•	70 -																
5 5	60 -																
sin	50																
Pas	50 -	•															
ge	40 -							+ + + + + + + + + + + + + + + + + + + +							++++		
inta	30 -										_						
erce	20 -																
ň																	
	10 -																
	0 -	01		0.01		0.1			└└ 1		10	<u>! ! ! i</u>	100		1000		
	0.0			0.01		0.1	P	article S	ize I	mm	10		100		1000		
			Siev	ing		Sedime	ntation			Sa	mple Propo	rtions	C,	% dry mass			
	Par	ticle Size	e mm	% Passin	g Particle	e Size mm	% Pas	sing		Very coars	se		-	0			
	-	500		100	0.	0575	74			Sand			_	14			
	-	300		100	0.	0415	71			Silt				24			
	150			100	0.	0301	66			Clay		50					

63

60

57

48

(assumed)

Mg/m3

Grading Analysis		
D100	mm	20
D60	mm	0.0152
D30	mm	
D10	mm	
Uniformity Coefficient		> 12
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

	0.063	74			
Note:	Tested in Accorda	ance with BS1377:	Part 2:1990,	clauses 9.2 a	and 9.5

100

100

100

100

100

100

100

100

96

93

90

89

89

88

88

87

87

86

83

80

0.0217

0.0156

0.0116

0.0013

Particle density

2.65

Remarks:

125

90

75

63

50

37.5

28

20

14

10

6.3

5

3.35

2

1.18

0.6

0.425

0.3

0.212

0.15

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Signed: Dugiaińska



DETERMINATION OF PARTICLE SIZE DISTRIBUTION Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Clier	nt:		Card	Geotechr	nics Ltd						Client Re	ference: CG	39415				
Clier	nt Addres	SS:	4 Go Goda GU7	dalming B alming, Su 1XW	susiness Ce irrey,	entre, Wool	sack Way,				Job N Date S Date Re	Number: 22 ampled: 06 eceived: 08	-14123 /12/2022 /12/2022				
Cont	act:		Andr	ew Bond		Date Tested: 28/12/2022											
Site	Address	:	Kenle	ey Campu	S						Sam	pled By: Cli	ent - ADE	3			
Test	ing carrie	ed out at i	2 Anal	ytical Limi	ted, ul. Pio	nierow 39,	41-711 Ruda	Slaska, F	Poland								
Test	t Result	ts:															
Laboratory Reference: 2539036										Depth ⁻	Top [m]: 0.7	'0					
Hole	No.:		TP8								Depth B	ase [m]: No	t Given				
Sam	ple Refe	rence:	2								Samp	le Type: B					
Sam	ple Desc	ription:	Oran	gish brow	n silty CLA	Y											
Sam	ple Prep	aration:	Sam	ple was qu	uartered, or	ven dried at	t 107.9 °C an	d broken o	down by ha	and.							
	CLA	AY Fin	e	Medium	Coarse	Fine	Medium	Coarse	Fine	GRAVEL Medium	Coarse	COBBLES	BOULD	DERS			
1	100 -																
	90													_			
	20																
	80				1												
%	70							++++					+ + +		+		
р Д	60												+	++++	+		
ssir	50																
Ба	40																
age	40																
ent	30												+	++++	+		
Perc	20													++++	+		
ш.	10														4		
	0.001			0.01		0.1	Parti	cle Size	mm	10		100		1	000		
		Sie	eving		1	Sedime	ntation		Sa	ample Propo		% dry m	ass				
	Particle	Size mr	0/	Passing	Particle	Size mm	% Passin	'n	Very coal	rse			0				
	Particle Size mm		'I ⁷⁰	, assing		, 0.20 1111	/01 033110	9	Gravel			1					

	<u> </u>		
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0644	82
300	100	0.0459	80
150	100	0.0330	76
125	100	0.0238	69
90	100	0.0171	64
75	100	0.0127	60
63	100	0.0014	48
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99	Particle density	(assumed)
2	99	2.65	Mg/m3
1.18	98		
0.6	98		
0.425	97		
0.3	96		
0.212	93		
0.15	89		
0.063	82		
Tested in Accordan	nce with BS1377		es 9.2 and 9.5

0
4
1
16
33
50
-

Grading Analysis		
D100	mm	10
D60	mm	0.0131
D30	mm	
D10	mm	
Uniformity Coefficient		> 9.4
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Remarks:

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DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client	:		Ca	rd Ge	eotechr	nics Ltd													Clie	ent F	Refe	ren	ce:	CG	3941	5		
Client	Address:		4 G Go	odal dalm	ming B ing, Su W	Business (Irrey,	Centre	e, Wo	olsack	Way,									[Joł Date	Sa Sa	umb mpl	er: ed:	22-1 09/1	412: 2/20	3 122 122		
Conta	act.		An	drew	Bond														L	Da Da	rec te T	est	ed: ed:	28/1	12/20	22		
Site A	ddress:		Ke	nlev	Campu	IS														Sa	mpl	ed	Bv:	Clie	nt - /	ADB		
Testir	ng carried	out at	i2 An	alytic	al Limi	ited, ul. Pi	onier	ow 39	, 41-7	11 Ru	da Sl	laska,	Polar	nd									_ ,.					
Test	Results			,		,			,																			
Labor	atory Refe	erence	253	3903	7														0	Dept	h To) ac	ml:	2.70)			
Hole No.: WS2										De	epth	Bas	se [m]:	3.60)												
Samp	le Refere	nce:	1																	San	nple	Ty	pe:	В				
Samp	le Descrip	otion:	Yel	lowis	sh brow	/n CLAY																						
Samp	le Prepara	ation:	Sa	mple	was qu	uartered,	oven	dried	at 109	.0 °C a	and b	oroker	dowr	n by	han	d.												
	CLAY	·		5	<u>SILT</u>	-	_			SAND						G	RAVI	EL ,			_	COE	BBLE	s	BC	ULDE	RS	
10		Fi	ne	Me	edium	Coarse		Fine		1edium	(Coarse		Fine		M	ediur	n		arse								
,	90																											
8	30		++-				-						_		+						+							
. 7	70																									_		
% ~ (50																											
sing,	50																											
Pas																												
age 4	40																											
cent;	30							1							+		1											
	20										+++				+						+			+		+-		
1	10														_						+							
																	Ц											
	0.001			0.	01			0.1		Pa	rticle	1 Size	mm				10					1	00					1000
1		0				П		a allina							-		Dree		41	-		Т		- 0/	(

Siev	/ing	Secumentation								
Particle Size mm	% Passing	Particle Size mm	% Passing							
500	100									
300	100									
150	100									
125	100									
90	100									
75	100									
63	100									
50	100									
37.5	100									
28	100									
20	100									
14	100									
10	100									
6.3	100									
5	100									
3.35	100									
2	100									
1.18	100									
0.6	99									
0.425	98									
0.3	97									
0.212	94									
0.15	91									
0.063	84]								

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	16
Fines <0.063mm	84

Grading Analysis		
D100	mm	6.3
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		N/A
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

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Signed: Duqiziinska

METHOD FOR SATURATION MOISTURE CONTENT OF CHALK

Tested in Accordance with: BS 1377-2: 1990: Clause 3.3

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client Reference: CG 39415 Job Number: 22-14123 Date Sampled: 06/12 - 12/12/2022 Date Received: 08/12/2022 Date Tested: 28/12/2022 Sampled By: Client - ADB

4041Client:Card Geotechnics LtdClient Address:4 Godalming Business Centre, Woolsack Way,
Godalming, Surrey,
GU7 1XWContact:Andrew BondSite Address:Kenley CampusTesting carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

TESTING

		Sample										
Laboratory Reference	Hole No.	Reference	Depth Top	Depth Base	Туре	Description	Remarks	SMC	Bulk density	Dry density	МС	Preparation
			m	m				%	Mg/m3	Mg/m3	%	
2540493	BH101	Not Given	5.00	Not Given	В	White CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	32	1.90	1.44	32	
2540492	BH101	Not Given	14.00	Not Given	В	White CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	25	1.99	1.62	23	
2540491	BH101	Not Given	15.00	Not Given	В	White CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	23	2.04	1.67	22	
2539030	TP12	2	3.50	Not Given	В	White mottled brown clayey CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	25	2.01	1.62	24	
2539029	TP5	1	2.90	Not Given	В	White mottled brown clayey CHALK	Supplied lump of chalk fails to comply with volume requirements as per BS1377:2 Clause 3.3.5.1	27	1.97	1.56	26	

Note: SMC - Saturation Moisture Content; MC - Moisture Content

Comments:

Signed: Duokahiska Anna

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

APPENDIX K

Contamination Assessments



ASSESSMENT CRITERIA

Table K1 below sets out CGL's rationale for generic assessment criteria (GAC) adoption in order to evaluate risks posed to potential receptors at The Barn Hotel, Ruislip from identified chemical contamination. Potential receptors have been identified with reference to the Part IIA regime and associated DEFRA guidance. As with the Part IIA regime, under the planning regime all receptors (humans, controlled waters, ecology, crops/livestock and buildings) have been considered if there is the potential for them to be adversely affected by exposure to contamination. The results of the assessment for The Barn Hotel, Ruislip are then presented in Tables K2 to K7 of this appendix.

Table K1. Rationale for Assessment Criteria Adoption

Source / Media	CGL's Approach & Rationale					
Risks to Human Health (long-term chronic risks)						
Soil contaminants	 Laboratory test results have been compared against Generic Assessment Criteria (GACs) derived inhouse by CGL using the Contaminated Land Exposure Assessment (CLEA) model and version 1.071 of the CLEA software. Where Soil Guideline Values (SGVs) have been published previously by the Environment Agency, the CGL GACs have updated these based on current exposure parameters (e.g. updated inhalation rates). The GACs have been generated assuming a sandy loam soil type and a Soil Organic Material of 6% for the Made Ground (measured range 2.3 – 7.4%) and 2.5% for the natural soils (measured <1.7 – 4.6%). In the event impacts are identified on a site above the GAC level for arsenic, cadmium, chromium VI, benzene or benzo(a)pyrene, the results have been compared to the applicable Category 4 Screening Level (C4SL) published by DEFRA to further assess risks. The exception to the above relates to lead. The SGV for lead has been withdrawn and the C4SL for lead is used by CGL directly as a first tier of assessment. The CGL GACs represent conservative screening criteria (set at acceptable or minimal risk) and have generally been calculated using the default parameters for the standard land use scenarios set out in the CLEA technical report and toxicological inputs in line with the requirements of Science Report SC0S0021/SR2 and, in the case of petroleum hydrocarbons, Science Report PS-080/TR3. Where a CGL GAC has not been derived alternative assessment criteria will be sourced from current commercially-available sources (including international standards where no suitable UK assessment criteria exists). Concentrations of cyanide above the laboratory reporting limit are assessed against a Soil Screening Value (SSV) developed by Atkins. Atkins have based this assessment criteria on acute exposure to a 0 to 6 year old child. Where the dataset is of appropriate size, assessment against the applicable GAC or C4SL is carried out at the 95th percentile of the sa					
	Concentrations of organic constituents detected above the laboratory reporting limit in shallow groundwater or perchad water have been assessed against groundwater vanous generic assessment					
Dissolved contaminants	criteria (GACgwvap) developed by the Society of Brownfield Remediation Risk Assessment (SoBRA). These assess chronic risks to human health via the indoor and outdoor air inhalation pathway only. The values assume a sand soil type, a soil organic matter of 1% and a depth below ground level of 650mm.					

KENLEY CAMPUS, CATERHAM, SURREY

Desk Study, Geotechnical and Geoenvironmental Interpretative Report



Source / Media	CGL's Approach & Rationale						
Ground gas	 Concentrations and flow rates of carbon dioxide and methane in ground gas are converted to Gas Screening Values (GSVs) in accordance with CIRIA (2007). Potential risks associated with gas chemistry are evaluated in accordance with guidance presented in CIRIA (2007), NHBC (2007), BSI (2007). 						
Radon	• Risks from the radon content of soil gas are evaluated in accordance with BRE (2011).						
Risks to Control	led Waters						
Soil contaminants	 Results from any eluted liquids have been directly compared to Environmental Quality Standards (EQS) and Drinking Water Values (DWV) as an initial screen of water quality. These are considered to be conservative screening criteria. 						
Dissolved contaminants	 Results have been directly compared to Environmental Quality Standards (EQS) and Drinking Water Values (DWV) as an initial screen of water quality. These are considered to be conservative screening criteria. 						
Risks to Building	gs & Structures						
Water supply pipes	• The evaluation of water supply pipe requirements at the site has been undertaken in general accordance with guidance and criteria produced by the UK Water Industry (2011).						
Sulfate & pH conditions	• The evaluation of risks to buried concrete has followed the guidance and criteria produced by BRE (2005).						
Risks to Vegetat	tion & Plants						
Soil contaminants	• Risks to plant growth (i.e. phytotoxicity) have been assessed for specific contaminants where the limits for phytotoxic effect proposed (e.g. by BS 3882) are significantly lower than the health GAC.						

Table 2. Potential soil risks to human health from Made Ground							
Land Use Category:	Residential with Home Grown Produce			SOM:	6.00%		
Stratum:	Made Ground		No. Samples	11			
Determinand	GAC	Min recorded	Max	No. Samples	No. Samples	US ₉₅ (mg/kg)	US ₉₅ > GAC
	mg/kg	(mg/kg)	recorded (mg/kg)	tested for determinand	exceeding GAC		
Arsenic (aqua regia extractable)	28	8.3	15	11	0	15.00	ОК
Beryllium (aqua regia extractable)	1.72	0.59	5.3	11	2	5.15	EXCEED
Boron (Water Soluble)	290	0.3	3.7	11	0	3.15	ОК
Cadmium (aqua regia extractable)	11	<0.2	2.3	11	0	2.15	ОК
Chromium (III)	886	19	55	11	0	53.00	ОК
Chromium (hexavalent)	2.93	<0.2	<1.2	11	0	<1.2	ОК
Copper (aqua regia extractable)	4220	14	72	11	0	63.00	ОК
Lead (aqua regia extractable)	200	15	190	11	0	155.00	ОК
Mercury (aqua regia extractable)	43.3	<0.3	1.6	11	0	1.35	ОК
Nickel (aqua regia extractable)	182	5.6	36	11	0	29.00	ОК
Selenium (aqua regia extractable)	350	<1	5.1	11	0	2.05	ОК
Vanadium (aqua regia extractable)	320	38	120	11	0	93.50	ОК
Zinc (aqua regia extractable)	4590	25	240	11	0	220.00	ОК
Benzene	0.384	<0.005	<0.005	11	0	<0.01	ОК
Toluene	670	<0.005	<0.005	11	0	<0.01	ОК
Ethylbenzene	422	<0.005	<0.005	11	0	<0.01	ОК
o-Xylene	352	<0.005	<0.005	11	0	<0.01	ОК
Total Phenols (monohydric)	1010	<1	1.4	11	0	1.35	ОК
Total Cyanide	34	<1	1.4	11	0	0.20	ОК
TPH-CWG - Aliphatic >EC5 - EC6	128	<0.001	<0.001	11	0	0.00	ОК
TPH-CWG - Aliphatic >EC6 - EC8	395	<0.001	<0.001	11	0	0.00	ОК
TPH-CWG - Aliphatic >EC8 - EC10	105	<0.001	<0.001	11	0	0.00	ОК
TPH-CWG - Aliphatic >EC10 - EC12	542	<1	<1	11	0	<1	ОК
TPH-CWG - Aliphatic >EC12 - EC16	3310	<2	18	11	0	16.00	OK
TPH-CWG - Aliphatic >EC16 - EC21	128000	<8	68	11	0	46.50	ОК
TPH-CWG - Aliphatic >EC21 - EC35	128000	<8	410	11	0	224.00	OK
TPH-CWG - Aromatic >EC5 - EC7	0.229	< 0.001	<0.001	11	0	0.00	OK
TPH-CWG - Aromatic >EC7 - EC8	670	< 0.001	< 0.001	11	0	0.00	ОК
TPH-CWG - Aromatic >EC8 - EC10	143	<0.001	< 0.001	11	0	0.00	ОК
TPH-CWG - Aromatic >EC10 - EC12	360	<1	11	11	0	8.95	ОК
TPH-CWG - Aromatic >EC12 - EC16	647	<2	330	11	0	260.00	ОК
TPH-CWG - Aromatic >EC16 - EC21	992	<10	2600	11	2	2100.00	EXCEED
TPH-CWG - Aromatic >EC21 - EC35	1710	<10	3600	11	2	3200.00	EXCEED
Naphthalene	13.1	0.16	5.1	11	0	4.60	ОК
Acenaphthylene	902	<0.05	15	11	0	14.50	ОК
Acenaphthene	1080	<0.05	51	11	0	35.50	ОК
Fluorene	846	<0.05	55	11	0	42.00	ОК
Phenanthrene	439	0.06	710	11	1	470.00	EXCEED
Anthracene	10600	<0.05	220	11	0	147.50	ОК
Fluoranthene	892	0.13	910	11	1	670.00	ОК
Pyrene	2030	0.12	750	11	0	555.00	ОК
Benzo(a)anthracene	13.6	0.08	410	11	3	320.00	EXCEED
Chrysene	26.9	0.08	380	11	2	275.00	EXCEED
Benzo(b)fluoranthene	3.7	0.09	430	11	3	320.00	EXCEED
Benzo(k)fluoranthene	101	< 0.05	150	11	1	121.00	EXCEED
Benzo(a)pyrene	2.99	0.05	380	11	3	275.00	EXCEED
Indeno(1,2,3-cd)pyrene	41.3	0.05	200	11	2	138.50	EXCEED
Di-benzo(a.h)anthracene	0.317	<0.05	49	11	3	35.00	EXCEED
Benzo(ghi)pervlene	349	0.06	210	11	0	145.00	OK
Asbestos in Soil	DETECTED			10	1	0.55	
pH		7.1	10.7	11		10.10	
GAC relates to phenol (C6H5OH) only							
Cupride CAC based on courts	of 0 < C yes and	d child (Atlant					
cyanice GAC based on acute exposure	of u s year old	a child (Atkins va	nue).				

Table 3. Potential soil risks to human health from natural soils							
Land Use Category:	Residential With	Home Grown P	roduce	SOM: 1.00%			
Stratum:	Natural Soils		No. Samples	<mark>o. Samples</mark> 7			
Determinand	GAC mg/kg	Min recorded (mg/kg)	Max recorded (mg/kg)	No. Samples tested for determinand	No. Samples exceeding GAC	US ₉₅ (mg/kg)	US ₉₅ > GAC
Arsenic (aqua regia extractable)	28	14	29	7	1	27.50	ОК
Beryllium (aqua regia extractable)	1.72	0.58	1.3	7	0	1.27	ОК
Boron (Water Soluble)	290	0.2	1.1	7	0	1.10	ОК
Cadmium (aqua regia extractable)	11	<0.2	0.5	7	0	0.29	ОК
Chromium (III)	886	28	87	7	0	81.30	ОК
Chromium (hexavalent)	2.93	<1.2	<1.2	7	0	<1.2	ОК
Copper (aqua regia extractable)	4220	10	58	7	0	48.70	ОК
Lead (aqua regia extractable)	200	16	68	7	0	64.70	ОК
Mercury (aqua regia extractable)	43.3	<0.3	<0.3	7	0	<0.3	ОК
Nickel (aqua regia extractable)	182	8.7	27	7	0	26.10	ОК
Selenium (aqua regia extractable)	350	<1	<1	7	0	<1	ОК
Vanadium (aqua regia extractable)	320	48	130	7	0	127.00	ОК
Zinc (aqua regia extractable)	4590	23	93	7	0	87.60	ОК
Benzene	0.09	<0.005	<0.005	7	0	<0.01	ОК
Toluene	129	<0.005	<0.005	7	0	<0.01	ОК
Ethylbenzene	77	<0.005	<0.005	7	0	<0.01	ОК
o-Xylene	64.3	<0.005	<0.005	7	0	<0.01	ОК
Total Phenols (monohydric)	257	<1	<1	7	0	<1	ОК
Total Cyanide	34	<1	<1	7	0	<1	ОК
TPH-CWG - Aliphatic >EC5 - EC6	39.6	<0.001	<0.001	7	0	0.00	ОК
TPH-CWG - Aliphatic >EC6 - EC8	84.9	<0.001	<0.001	7	0	0.00	ОК
TPH-CWG - Aliphatic >EC8 - EC10	18.7	< 0.001	<0.001	7	0	0.00	ОК
TPH-CWG - Aliphatic >EC10 - EC12	93.2	<1	<1	7	0	<1	ОК
TPH-CWG - Aliphatic >EC12 - EC16	795	<2	<2	7	0	<2	OK
TPH-CWG - Aliphatic >EC16 - EC21	128000	<8	<8	7	0	<8	ОК
TPH-CWG - Aliphatic >EC21 - EC35	128000	<8	<8	7	0	<8	ОК
TPH-CWG - Aromatic >EC5 - EC7	0.0528	<0.001	<0.001	7	0	0.00	ОК
TPH-CWG - Aromatic >EC7 - EC8	129	< 0.001	< 0.001	7	0	0.00	ОК
TPH-CWG - Aromatic >EC8 - EC10	25.1	<0.001	< 0.001	7	0	0.00	ОК
TPH-CWG - Aromatic >EC10 - EC12	68.3	<1	1.4	7	0	0.68	ОК
TPH-CWG - Aromatic >EC12 - EC16	137	<2	5.5	7	0	5.23	ОК
TPH-CWG - Aromatic >EC16 - EC21	291	<10	24	7	0	13.80	ОК
TPH-CWG - Aromatic >EC21 - EC35	1120	<10	41	7	0	32.60	ОК
Naphthalene	2.32	0.14	0.8	7	0	0.69	OK
Acenaphthylene	169	< 0.05	0.31	7	0	0.27	ОК
Acenaphthene	206	< 0.05	0.87	7	0	0.64	ОК
Fluorene	165	<0.05	1	7	0	0.75	ОК
Phenanthrene	95.8	<0.05	7.4	7	0	5.51	ОК
Anthracene	2330	<0.05	1.8	7	0	1.31	ОК
Fluoranthene	283	<0.05	11	7	0	8.54	ОК
Pyrene	616	< 0.05	9.9	7	0	7.68	ОК
Benzo(a)anthracene	7.79	<0.05	5.6	7	0	4.31	ОК
Chrysene	14.9	< 0.05	5.3	7	0	4.10	OK
Benzo(b)fluoranthene	2.6	< 0.05	5.8	7	1	4.63	EXCEED
Benzo(k)fluoranthene	77.4	<0.05	2.2	7	0	1.67	OK
Benzo(a)nvrene	2 23	<0.05	4.7	7	1	3 65	FXCEED
Indeno(1,2,3-cd)pyrene	27.4	<0.05	2.4	7	0	1.90	OK
Di-benzo(a,b)anthracene	0.254	<0.05	0.66	7	1	0.51	FXCEED
Benzo(ghi)pervlene	316	<0.05	2.5	7	0	2.02	OK
Asbestos in Soil	NOT DETECTED	0	0	2	0	0.00	
pH		6	8.3	7		8.30	
GAC relates to phenol (C6H5OH) only			0.0	,	1	0.00	
Cyanida GAC based on south synamic	of Och year ald al	uld (Atking volue	1				
Levanue GAC Dased on acute exposure		mu tatkins value	1.				



Table 4. Data assessment summary – potential groundwater vapour risk to human health(Residential land use)

Contaminant	Residential GACgwvap (µg/I)	Measured range (μg/l)	No. of samples exceeding assessment criteria
Benzene	210	<1.0	0
Toluene	230,000	<1.0	0
Ethylbenzene	10,000	<1.0	0
Total Xylene	9,500	<1.0	0
Methyl tertiary butyl ether (MTBE)	83,000	<1.0	0
TPH aromatic >EC5 to EC7 ¹	210,000	<1.0	0
TPH aromatic >EC7 to EC8	220,000	<1.0	0
TPH aromatic >EC8 to EC10	1,900	<1.0	0
TPH aromatic >EC10 to EC12	6,800	<10 to 35	0
TPH aromatic >EC12 to EC16	39,000	<10 to 200	0
TPH aliphatic EC5 to EC6	1,900	<1.0	0
TPH aliphatic >EC6 to EC8	1,500	<1.0	0
TPH aliphatic >EC8 to EC10	57	<1.0	0
TPH aliphatic >EC10 to EC12	37	<10	0
Acenaphthene	170,000 ^{Error!} Bookmark not defined.	<0.01	0
Acenaphthylene	220,000 ^{Error!} Bookmark not defined.	<0.01	0
Fluorene	210,000 ^{Error!} Bookmark not defined.	<0.01	0
Naphthalene	220	<0.01	0
Isopropylbenzene	850	-	-
Propylbenzene	2,700	-	-
Styrene	8,800	-	-
1,2,4-trimethylbenzene	24	-	-
Hexachlorobenzene	16 ^{Error!} Bookmark not defined.	-	-
Pentachlorobenzene	140	-	-
1,2,3,4-tetrachlorobenzene	240	-	-
1,2,3,5-tetrachlorobenzene	7	-	-
1,2,4,5-tetrachlorobenzene	8.1	-	-
1,2,3-trichlorobenzene	35	-	-
1,2,4-trichlorobenzene	68	-	-
1,3,5-trichlorobenzne	7.4	-	-
1,2-dichlorobenzene	2,000	-	-
1,3-dichlorobenzene	31	-	-
1,4-dichlorobenzene	5,000	-	-
Chlorobenzene	98	-	-
Hexachloroethane	8.5	-	-
1,1,1,2-tetrachloroethane	240	-	-

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Contaminant	Residential GACgwvap (µg/l)	Measured range (µg/l)	No. of samples exceeding assessment criteria
1,1,2,2-tetrachloroethane	1,600	-	-
1,1,1-trichloroethane	3,000	-	-
1,1,2-trichloroethane	520	-	-
1,1-dichloroethane	2,700	-	-
1,2-dichloroethane	8.9	-	-
Chloroethane	10,000	-	-
Tetrachloroethene (TCE)	34	-	-
Trichloroethene	5.7	-	-
1,1-dichloroethene	160	-	-
Cis-1,2-dichloroethene	130	-	-
Trans-1,2-dichloroethene	160	-	-
Chloroethene (vinyl chloride)	0.62	-	-
1,2-dichloropropane	22	-	-
Bromobenzene	220	-	-
Bromodichloromethane	17	-	-
Bromoform (tribromomethane)	3,100	-	-
Tetrachloromethane (carbon tetrachloride)	5.3	-	-
Trichloromethane (chloroform)	790	-	-
Chloromethane	14	-	-
hexachlorobutadiene	1.7	-	-
2-chloronaphthalene	160	-	-
Biphenyl (limonene)	15,000 ^{Error!} Bookmark not defined.	-	-
Carbon disulphide	56	-	-
Elemental mercury	1.1	<0.05 to <0.5	0

^{1.} Assessment criteria for TPH Aromatic >EC5 to EC7 should also be compared to assessment criteria for benzene to account for genotoxic mutagenic affects.



Table 5.	Data assessment summ	ıry – potential risk to controlle	d waters (groundwater) - freshwater
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Contaminant	Freshwater EQS ¹ (µg/l)	EC Drinking Water Value (µg/I)	Measured range (µg/I)	Bioavailable Concentration (µg/l)	No. of samples exceeding EQS	No. of samples exceeding Drinking Water Value
Arsenic	50	10	0.27 to 0.32	-	0	0
Cadmium	0.08 - 0.25²	5	<0.02 to 0.03	-	0	0
Chromium VI	3.4	50 ³	<5.0	-	0	0
Chromium III	4.7	50 ³	<5.0	-	0	0
Lead	1.2 ⁴ (7.2 ⁵)	10	<0.2	-	0	0
Mercury	0.07	1	< 0.05	-	0	0
Selenium	*6	10	4.7 to 4.8	-	0	0
Boron	*	1,000	28 to 98	-	0	0
Copper	14	2,000	1.9	0.11-0.16	0	0
Nickel	44	20	<0.5 to 1.8	0.16-0.41	0	0
Zinc	10.9 ^{4,7}	(5,000) ⁸	2.7 to 5.3	1.36-2.42	0	0
Barium	*	(1,000) ⁸	39 to 48	-	0	0
Beryllium	(15) ⁹	*	<0.1	-	0	0
Phenols	7.7	(0.5) ⁸	1.6 to 1.8	-	0	0
Free Cyanide	1	50 ¹⁰	<1.0	-	0	0
Sulphate (mg/l)	*	250	47 to 80.7	-	0	0
TPH	*	(10)8	<1.0-<10	-	0	0
PAH	*	0.111	<0.16	-	0	0
Anthracene	0.1	*	< 0.01	-	0	0
Benzo(a)pyrene	0.02 [0.00017] ¹²	0.01	< 0.01	-	0	0
Fluoranthene	0.1 (0.0063) ¹²	*	< 0.01	-	0	0
Naphthalene	2	*	< 0.01	-	0	0
Benzene	10	1	<0.1	-	0	0
Toluene	74	*	<0.1	-	0	0
Total ammonia/				-	0	0
ammoniacal nitrogen as	*	500	25-59		0	0
NH ₄						
Hardness (mg CaCO ₃ /l)	*	*	288-306	-	-	-
рН	6.0 - 9.0	6.5 - 10.0	7.2-7.5	-	-	-

¹ Annual Averages prescribed within The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

² EQS varies with water hardness where range given. Evaluated against appropriate band.

³ This value relates to total chromium.

⁴ Screened against the bioavailable fraction of the dissolved concentration of copper, nickel and zinc. "bioavailable" means the fraction of the dissolved concentration of zinc, nickel and copper likely to result in toxic effects as determined using the UKTAG Metal Bioavailability Assessment Tool.

⁵ Former EQS value for total lead

⁶ * = No values defined or given.

⁷ 10.9 μg/l bioavailable plus ambient background concentration (μg/l) dissolved. Ambient background concentrations for dissolved zinc in freshwaters in England and Wales to be used in conjunction with item 6.

⁸ Concentration formerly prescribed within the Water Supply (Water Quality) Regulations 1989.

⁹ Dutch Indication Level of Serious Contamination.

¹⁰ Drinking water standard based on total cyanide.

¹¹ Sum concentration of 4 PAH comprising benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene and indeno(1,2,3-cd)pyrene.

¹² The previous published value for benzo(a)pyrene and fluoranthene is given in the table, and the current published value is given in square brackets. The square brackets value must be used if the waters in question could feed into an area where fishery products are produced.



Table 6.	Data assessment	summary - potenti	al risk to controllea	l waters (groundwa	ter) - leachate
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Contaminant	Freshwater EQS ¹ (µg/l)	EC Drinking Water Value (µg/I)	Measured range (µg/I)	Bioavailable Concentration (µg/l)	No. of samples exceeding EQS	No. of samples exceeding Drinking Water Value
Arsenic	50	10	<1.0 to 3.8	-	0	0
Cadmium	0.08 - 0.25²	5	<0.08	-	0	0
Chromium VI	3.4	50 ³	<5.0	-	0	0
Chromium III	4.7	50 ³	<5.0 to 5.5	-	0	0
Lead	1.2 ⁴ (7.2 ⁵)	10	<1.0 to 4	-	0	0
Mercury	0.07	1	<0.5	-	0	0
Selenium	*6	10	<4.0 to 4.4	-	0	0
Boron	*	1,000	<10 to 15	-	0	0
Copper	14	2,000	7.8 to 28	0.25-0.69	0	0
Nickel	44	20	1.5 to 2.7	0.17-0.60	0	0
Zinc	10.9 ^{4,7}	(5,000) ⁸	8.5 to 19	0.76-3.58	0	0
Barium	*	(1,000) ⁸	13 to 120	-	0	0
Beryllium	(15) ⁹	*	<0.2	-	0	0
Phenols	7.7	(0.5) ⁸	<1.0 to 4.5	-	0	5
Free Cyanide	1	50 ¹⁰		-	0	0
Sulphate (mg/l)	*	250	7.2 to 48.9	-	0	0
ТРН	*	(10) ⁸	<1.0 to 900	-	0	2
PAH	*	0.1 ¹¹	<0.2 to 42	-	0	2
Anthracene	0.1	*	<0.01 to 2.0	-	0	0
Benzo(a)pyrene	0.02 [0.00017] ¹²	0.01	<0.01 to 0.9	-	0	1
Fluoranthene	0.1 (0.0063) ¹²	*	<0.01 to 4.4	-	0	0
Naphthalene	2	*	<0.01 to 7.9	-	0	0
Benzene	10	1	-	-	0	0
Toluene	74	*	-	-	0	0
Total ammonia/				-	0	0
ammoniacal nitrogen as	*	500	-		0	0
NH ₄						
Hardness (mg CaCO ₃ /l)	*	*	-	-	-	-
рН	6.0 - 9.0	6.5 - 10.0	7.0 to 8.0	-	-	-

¹ Annual Averages prescribed within The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

² EQS varies with water hardness where range given. Evaluated against appropriate band.

³ This value relates to total chromium.

⁴ Screened against the bioavailable fraction of the dissolved concentration of copper, nickel and zinc. "bioavailable" means the fraction of the dissolved concentration of zinc, nickel and copper likely to result in toxic effects as determined using the UKTAG Metal Bioavailability Assessment Tool.

⁵ Former EQS value for total lead

⁶ * = No values defined or given.

⁷ 10.9 μg/l bioavailable plus ambient background concentration (μg/l) dissolved. Ambient background concentrations for dissolved zinc in freshwaters in England and Wales to be used in conjunction with item 6.

⁸ Concentration formerly prescribed within the Water Supply (Water Quality) Regulations 1989.

⁹ Dutch Indication Level of Serious Contamination.

¹⁰ Drinking water standard based on total cyanide.

¹¹ Sum concentration of 4 PAH comprising benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene and indeno(1,2,3-cd)pyrene.

¹² The previous published value for benzo(a)pyrene and fluoranthene is given in the table, and the current published value is given in square brackets. The square brackets value must be used if the waters in question could feed into an area where fishery products are produced.



Table 7. Data assessment summary – potential soil risk to vegetation and plants

Determinant	Assessment Criteria (mg/kg)	Measured range (mg/kg)	US₃₅ (mg/kg)	US ₉₅ > Assessment Criteria? (Y/N) #- outlier detected
Copper ¹	135	10-72	60.10	Ν
Zinc ¹	200	23-240	206.00	Y
Nickel ¹	75	5.6-36	28.35	Ν
Boron (water soluble) ²	5	0.2-3.7	2.76	Ν

¹ BSI, (2015). Specification for topsoil and requirements for use. BS 3882:2015. Values taken for pH 6-7

² Limit for phytotoxic effect. Nable, Banuelos and Paul, (1997). Boron Toxicity. Plant and Soil, Volume 193, pp 181-198



Table 8. Standard Water Supply Pipe Assessment

Test Group ¹	Testing Required?	PE threshold (mg/kg)	Metal Pipes / Barrier Pipe	Laboratory Detection Limit (mg/kg)	Testing UKAS accredited Y/N	Maximum concentration at proposed pipeline depth ² (mg/kg)	Maximum site concentration ³ (mg/kg)	Locations and depths where concentrations exceed proposed pipeline threshold.		
Total BTEX & MTBE	sessment otentially ation	0.1	Pass	<0.005	MCERTS (Y)	<0.03	<0.03			
EC5–EC10 aliphatic and aromatic hydrocarbons	Risk As l land p ntamin	2	Pass	<0.001 to <10	Y	<0.003	<0.003			
EC10-EC16 aliphatic and aromatic hydrocarbons	ninary entified I by cor	10	Pass	<0.06 to <10	MCERTS (Y)	<2.0	<360	TP10, 0.40mbgl; WS6, 0.20mbgl; WS5 0.20mbgl		
EC16-EC40 aliphatic and aromatic hydrocarbons	Where Prelin (PRA) has ide affected	Where Prelir (PRA) has ide affectec	e Prelir has ide iffected	500	Pass	<10	MCERTS (Y)	<36	6678	WS6, 0.20mbgl; WS5, 0.20mbgl
Phenols			2	Pass	<1.0	MCERTS (Y)	<1.0	1.4		
Corrosive	Conductivity Redox pH	Pass	Note ⁴	0.99 to 1.06mS 75 to 92 mV 6 to 10.7	N N N	8.3	10.7	13 locations exceed or equal pH of 8		

¹ Tests Groups as per Appendix G of UKWIR Guidance.

² Water pipes are normally laid 0.75-1.35 metres below finished ground level.

³ State if liquid free product is present in soil or groundwater.

⁴ Threshold: For wrapped steel, corrosive if pH<7 and conductivity >400 μs/cm. For wrapped ductile iron corrosive if pH<5, Eh not neutral and conductivity >400 μs/cm. For copper, corrosive if pH<5 or>8 and Eh positive.

APPENDIX L

Preliminary Desiccation Assessment

Borehole	Depth	Мс	Ц	PL	PI	MPI	%Passi	0.4*11	ls	PL+2	Is Mc < PL	Potentially Desiccate	d Stratum
ID	Doptin				••		ng	••••	Mc<0.4*LL?		+2	(Y/N)	
WS5	1.5	19	36	17	19	0.255	75	14.4	N	19	N	Ν	CWFL
WS5	2.5	24	54	19	35	0.475	94	21.6	N	21	N	Ν	CWFL
WS5	3.7	22	37	19	18	0.703	99	14.8	N	21	N	Ν	CWFL
WS2	1.5	23	45	19	26	0.285	100	18	N	21	N	Ν	CWFL
WS2	2	22	39	20	19	0.4	100	15.6	N	22	N	Ν	CWFL
WS2	2.5	26	44	22	22	0.55	100	17.6	N	24	N	Ν	CWFL
WS7	1.5	20	48	23	25	0.345	83	19.2	N	25	Y	Ν	CWFL
WS7	2	34	68	36	32	0.72	90	27.2	N	38	Y	Ν	CWFL
WS7	2.4	36	83	31	52	0.744	100	33.2	N	33	N	Ν	CWFL
WS4	1.4	37	72	34	38	0.476	67	28.8	N	36	N	Ν	CWFL
WS4	2.4	23	59	26	33	0.624	64	23.6	Y	28	Y	Y	CWFL
WS4	3	23	58	27	31	0.81	95	23.2	Y	29	Y	Y	CWFL
WS11	1.5	28	61	27	34	0.405	93	24.4	N	29	Y	Ν	CWFL
WS11	2.5	44	98	38	60	0.95	100	39.2	N	40	N	Ν	CWFL
WS11	3.5	40	111	49	62	1.715	90	44.4	Y	51	Y	Y	CWFL
TP5	1	42	83	37	46	0.37	94	33.2	N	39	N	Ν	CWFL
TP9	1.1	26	50	24	26	0.264	99	20	N	26	N	Ν	CWFL
TP4	2.3	23	43	20	23	0.46	98	17.2	N	22	N	Ν	CWFL
Client Project Daniel Watney LLP Kenley Campus, Caterham, Surrey										Job No CG/39415			
Preliminary Desiccation Assessment											Table 1		