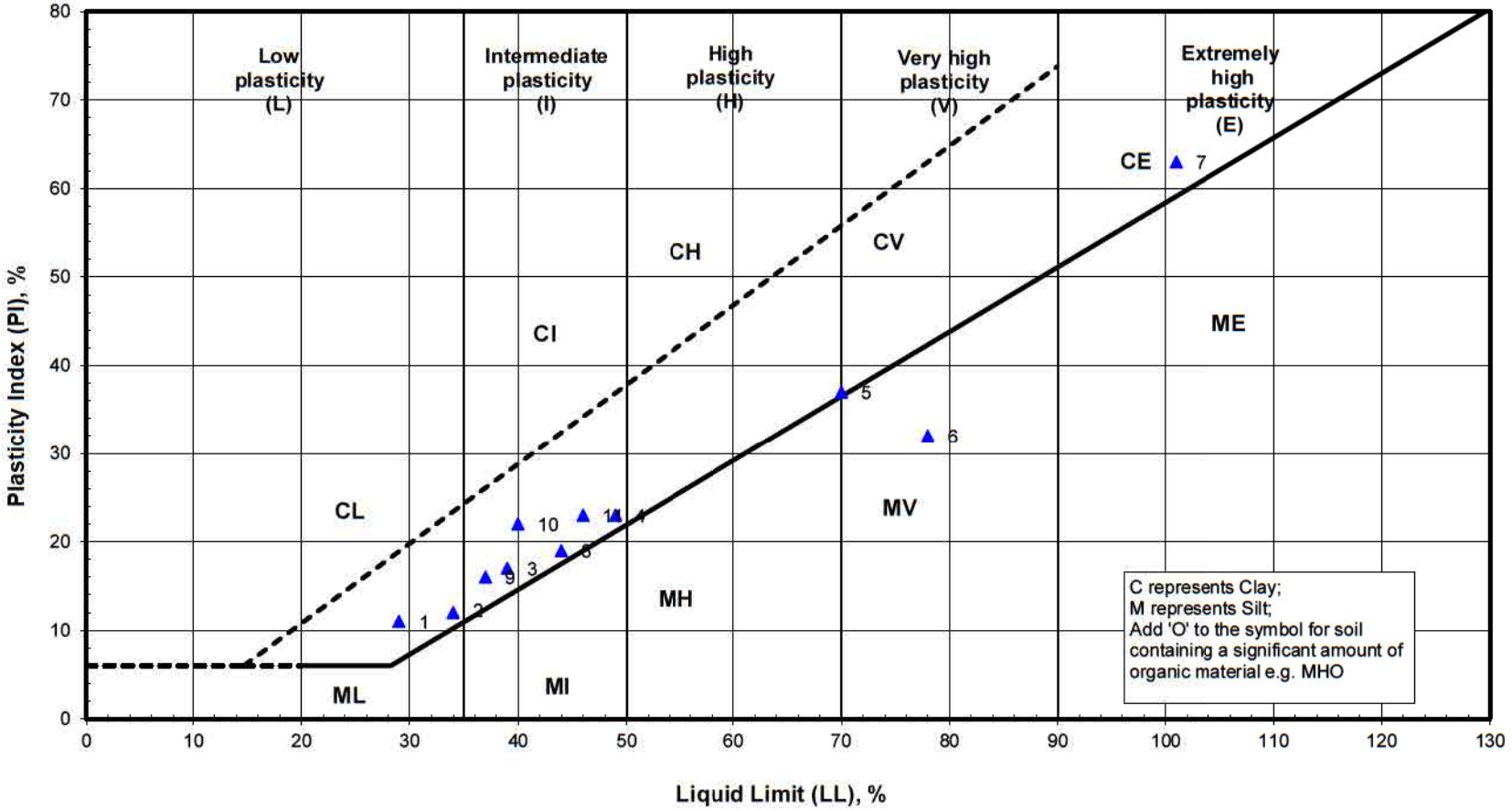
Plasticity Chart for Atterberg Limit Tests

Project Name	*Land off Shawstead Road, Hale*			**Project Number**	*J13752*
Client Name	*K D Attwood & Partners*	**PE**	*JMW*	**Date Issued**	*02-Oct-18*

Key

No.	TH No.	Depth
1	BH1	2.00
2	BH3	2.00
3	TP1	1.60
4	TP4	1.00
5	TP5	1.20
6	TP5	1.80
7	TP6	0.80
8	WLS1	0.50
9	WLS2	1.00
10	WLS3	1.00
11	WLS5	1.40



Liquid Limit		Plastic Limit		Plasticity Index	
Maximum Value	101	Maximum Value	46	Maximum Value	63
Minimum Value	29	Minimum Value	18	Minimum Value	11
Average Value	52	Average Value	27	Average Value	25

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Atterberg and Moisture Content Summary

BS1377-2 cl.3.2, 3.3, 4.2, 4.3 & BS EN ISO 17892-1

AGS

Project Name	Land off Shawstead Road, Hale						Project Number		J13752	
Client	K D Attwood & Partners				PE	JMW	Date Issued		02-Oct-18	
Location	Depth m	Sample Type	Visual Description	Comments	Natural MC %	Liquid Limit %	Plastic Limit %	Plasticity Index	Classi-fication	Passing 425 micron %
BH1	2.00	D	Light buff grey sandy gravelly calcareous CLAY. Gravel consists of medium and coarse angular and subangular flint.	Sample passed through 425µm sieve	21	29	18	11	CL	45
BH3	2.00	D	Off white patched brown slightly sandy gravelly calcareous CLAY. Gravel consists of fine to coarse subangular chalk and flint.	Sample passed through 425µm sieve	19	34	22	12	CL	42
TP1	1.60	D	Brown slightly sandy gravelly calcareous CLAY. Gravel consists of fine to coarse subangular flint and chalk.	Sample passed through 425µm sieve	19	39	22	17	CI	72
TP4	1.00	B	Buff and white slightly sandy gravelly calcareous CLAY. Gravel consists of fine to coarse subangular flint and chalk.	Sample passed through 425µm sieve	15	49	26	23	CI	36
TP5	1.20	B	Very stiff orange brown slightly gravelly CLAY. Gravel consists of fine to coarse angular to rounded flint.	Sample passed through 425µm sieve	31	70	33	37	CH/CV	78
TP5	1.80	B	Stiff orange brown slightly sandy very gravelly CLAY. Gravel consists of fine to coarse subangular flint.	Sample passed through 425µm sieve	33	78	46	32	MV	31
TP6	0.80	B	Stiff orange brown speckled dark brown slightly gravelly calcareous CLAY. Gravel consists of fine to coarse angular flint.	Sample passed through 425µm sieve	27	101	38	63	CE	86
WLS1	0.50	D	Stiff orange brown sandy slightly gravelly CLAY. Gravel consists of fine and medium subangular flint.	Sample passed through 425µm sieve	22	44	25	19	CI	65
WLS2	1.00	D	Brown sandy gravelly calcareous CLAY. Gravel consists of fine to coarse angular flint and chalk gravel.	Sample passed through 425µm sieve	11	37	21	16	CI	63
WLS3	1.00	D	Stiff brown slightly gravelly calcareous CLAY. Gravel consists of fine to coarse angular chalk and flint.	Sample passed through 425µm sieve	16	40	18	22	CI	77

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Atterberg and Moisture Content Summary

BS1377-2 cl.3.2, 3.3, 4.2, 4.3 & BS EN ISO 17892-1

AGS

Project Name	*Land off Shawstead Road, Hale*						Project Number		*J13752*	
Client	*K D Attwood & Partners*				PE	*JMW*	Date Issued		*02-Oct-18*	
Location	Depth m	Sample Type	Visual Description	Comments	Natural MC %	Liquid Limit %	Plastic Limit %	Plasticity Index	Classi-fication	Passing 425 micron %
WLS5	1.40	D	*Very stiff buff brown slightly sandy slightly gravelly calcareous CLAY. Gravel consists of fine to coarse angular and subangular flint and chalk.*	*Sample passed through 425µm sieve*	*14*	*46*	*23*	*23*	*CI*	*76*

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CHEMICAL & ELECTROCHEMICAL TESTING SUMMARY

To BS1377-3 cl 5.6 & 9.5

AGS

Project Name	*Land off Shawstead Road, Hale*					Project Number	*J13752*		
Client	*K D Attwood & Partners*			PE	*JMW*	Date Issued	*02-Oct-18*		

TH No.	Depth m	Sample Type	Visual Description	Comments	Passing 2mm %	pH Value	Soil Sulphate 2:1 Water Extract		Groundwater Sulphate	
							g/l SO_3	BRE mg/l SO_4	g/l SO_3	BRE mg/l SO_4
BH1	4.00	D	*Off white gravelly SILT. Gravel consists of fine to coarse subangular chalk.*		*43*	*8.4*	*0.03*	*38*		
BH3	9.50	D	*White gravelly SILT. Gravel consists of fine very angular and subangular flint and chalk.*		*74*	*8.6*	*0.02*	*19*		
BH4	16.00	D	*White slightly gravelly SILT. Gravel consists of fine very angular and subangular chalk and flint.*		*71*	*8.4*	*0.08*	*96*		
TP1	0.50	D	*Pale brown sandy calcareous SILT.*		*100*	*8.0*	*0.02*	*29*		
TP7	1.00	B	*White fine to coarse subangular chalk GRAVEL.*	*Sample crushed to pass 2 mm sieve*	*0*	*8.5*	*0.04*	*48*		
WLS3	2.00	D	*White gravelly SILT. Gravel consists of fine and medium subangular chalk.*		*42*	*8.4*	*0.04*	*48*		

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Classification Summary

BS1377-2 cl. 3.2, 3.3, 8.3 & BS1377-9 cl. 2.4 & BS EN ISO 17892-1, 2 & 3

AGS

Project Name	*Land off Shawstead Road, Hale*			Project Number	*J13752*
Client	*K D Attwood & Partners*	PE	*JMW*	Date Issued	*02-Oct-18*

Location	Depth m	Sample Type	Visual Description	Comments	Natural MC %	Particle Density Mg/m³	Bulk Density Mg/m³	Dry Density Mg/m³	Saturation MC %
TP2	1.40	B	*Off white fine to coarse angular chalk GRAVEL.*		*22*		*2.06*	*1.69*	*22*
TP4	1.70	B	*Off white fine to coarse angular chalk GRAVEL.*		*25*		*2.03*	*1.62*	*25*
TP7	1.60	B	*White medium and coarse angular chalk GRAVEL.*		*26*		*1.94*	*1.53*	*28*

Notes: Saturation Moisture Content of chalk test is carried out on intact fragments selected from the supplied sample. Particle density of chalk is assumed to be 2.7Mg/m³ unless otherwise stated above.

Southern Testing Laboratories Limited, East Grinstead is registered under BS EN ISO 9001 BSI ref: FS29280

Oct 14

APPENDIX D

Contamination Laboratory Test Results

Table 1 - Tier 1 Screening Values

Contaminant	Units	Proposed Land Use					
		Residential with homegrown produce consumption	Residential without homegrown produce consumption	Open Space* (Residential)	Open Space* (Park)	Allotments	Commercial / Industrial
Arsenic (As) [2]	mg/kg	37	40	79	170	43	640
Cadmium (Cd) [2]	mg/kg	11	85	120	555	1.9	190
Trivalent Chromium (CrIII) [2]	mg/kg	910	910	1,500	33,000	18,000	8600
Hexavalent Chromium (CrVI) [2]	mg/kg	6	6	7.7	220	1.8	33
Lead (Pb) [3]	mg/kg	200	310	630	1300	80	2330
Mercury (Hg) [1,2,7]	mg/kg	7.6-11	9.2-15	40	68-71	6.0	29-320
Selenium (Se) [2]	mg/kg	250	430	1,100	1,800	88	12,000
Nickel (Ni) [2,4]	mg/kg	130	180	230	800	53	980
Copper (Cu) [2,4]	mg/kg	2,400	7,100	12,000	44,000	520	68,000
Zinc (Zn) [2,4]	mg/kg	3,700	40,000	81,000	170,000	620	730,000
Phenol [1,2]	mg/kg	120-380	440-1200	440-1300	440-1300	23-83	440-1300
Benzo[a]pyrene [1,5]	mg/kg	1.7-2.4	2.6	4.9	10	0.67-2.7	36
Naphthalene [1,2]	mg/kg	2.3-13	2.3-13	77-430+	77-430+	4.1-24	77-430+
Total Cyanide (CN) [6]	mg/kg	/	/	/	/	/	/
Free Cyanide [6]	mg/kg	/	/	/	/	/	/
Complex Cyanides [6]	mg/kg	/	/	/	/	/	/
Thiocyanate [6]	mg/kg	/	/	/	/	/	/

Notes:

***** Open Space levels calculated on the basis of the exposure modelling developed in the C4SL research.

+ Screening values constrained to saturation limit. Higher values may be acceptable on a site specific basis.

[1] Where ranges of values are given for organic contaminants the screening value is dependant on the Soil +Organic Matter.

[2] LQM/CIEH S4UL (2014). Copyright Land Quality Management Ltd reproduced with permission; Publication Number S4UL 3116. All rights reserved.

[3] C4SL (DEFRA 2014).

[4] Copper, Zinc and Nickel may have phototoxic effects at the given concentrations. Alternative criteria should be adopted for importation of Topsoil or other soils for cultivation. BS3882:2015 and BS8601:2013 suggest values of 200 to 300mg/kg for Zn, 100 to 200mg/kg for Cu, and 60 to 110mg/kg for Ni, for topsoil and subsoil, depending on pH.

[5] Based on the Surrogate Marker approach and modelled using the modified exposure parameters of C4SL but retaining 'minimal risk' HCV.

[6] Screening criteria derived on a site specific basis if test results indicate.

[7] S4UL for Methyl Mercury, higher concentrations may be tolerable if inorganic mercury is the only species present. Lower concentrations apply for elemental Mercury.

These screening values are valid at the time of writing but may be subject to change and any such changes will have implications for the assessments based on them. Their validity should be confirmed at the time of site development.

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Analytical Report Number : 18-11421

Project / Site name:	Land off Shawstead Road, Hale	**Samples received on:**	24/09/2018
Your job number:	J13752	**Samples instructed on:**	24/09/2018
Your order number:	J13752_2	**Analysis completed by:**	02/10/2018
Report Issue Number:	1	**Report issued on:**	02/10/2018
Samples Analysed:	9 soil samples		

Signed:

Jordan Hill
Reporting Manager
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

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 18-11421

Project / Site name: Land off Shawstead Road, Hale
Your Order No: J13752_2

Lab Sample Number				1051589	1051590	1051591	1051592	1051593
Sample Reference				BH3	BH5	TP1	TP3	TP4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.15	0.20
Date Sampled				12/09/2018	12/09/2018	10/09/2018	10/09/2018	10/09/2018
Time Taken				1100	1100	1000	1115	1145
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	%	N/A	NONE	16	18	13	17	16
Total mass of sample received	kg	0.001	NONE	1.3	1.2	1.2	1.3	1.2
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	-
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.7	8.1	8.0	8.1	-
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.020	0.017	0.068	0.015	-
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Organic Matter	%	0.1	MCERTS	3.6	2.6	4.6	4.5	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.33	< 0.05	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	2.0	< 0.05	2.0	0.62	-
Anthracene	mg/kg	0.05	MCERTS	0.45	< 0.05	0.21	0.09	-
Fluoranthene	mg/kg	0.05	MCERTS	5.4	0.35	4.2	1.8	-
Pyrene	mg/kg	0.05	MCERTS	4.7	0.30	3.5	1.5	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.2	0.16	1.8	0.91	-
Chrysene	mg/kg	0.05	MCERTS	3.1	0.26	2.3	1.2	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	5.1	0.32	3.8	1.9	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	2.1	0.17	1.1	0.67	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.4	0.27	2.5	1.5	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.3	< 0.05	1.5	0.76	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.62	< 0.05	0.39	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.7	< 0.05	1.8	0.95	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	36.6	1.83	25.0	11.9	-
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	6.2	13	13	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.8	0.8	0.8	0.6	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	16	50	29	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	41	26	190	46	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	120	53	190	110	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.6	< 0.3	0.7	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	17	16	27	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	91	46	120	85	-
Pesticide and Herbicide Screen								
Pesticides/Herbicides Screen in Soil	P/A	N/A	NONE	-	-	-	-	Absent

Analytical Report Number: 18-11421

Project / Site name: Land off Shawstead Road, Hale
Your Order No: J13752_2

Lab Sample Number				1051594	1051595	1051596	1051597	
Sample Reference				TP6	WLS1	WLS3	WLS5	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				0.20	0.15	0.70	0.15	
Date Sampled				10/09/2018	10/09/2018	10/09/2018	10/09/2018	
Time Taken				1000	1000	1200	1400	
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	%	N/A	NONE	17	16	8.8	14	
Total mass of sample received	kg	0.001	NONE	0.50	1.2	1.2	1.2	
Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	Not-detected	Not-detected	
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	8.0	8.3	8.0	
Total Cyanide	mg/kg	1	MCERTS	-	< 1	< 1	< 1	
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.018	0.0082	0.028	
Sulphide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	
Organic Matter	%	0.1	MCERTS	-	5.1	1.6	5.3	
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	< 0.05	
Acenaphthylene	mg/kg	0.05	MCERTS	-	0.32	< 0.05	< 0.05	
Acenaphthene	mg/kg	0.05	MCERTS	-	0.18	< 0.05	< 0.05	
Fluorene	mg/kg	0.05	MCERTS	-	0.14	< 0.05	< 0.05	
Phenanthrene	mg/kg	0.05	MCERTS	-	2.6	< 0.05	0.29	
Anthracene	mg/kg	0.05	MCERTS	-	0.68	< 0.05	< 0.05	
Fluoranthene	mg/kg	0.05	MCERTS	-	6.3	< 0.05	0.57	
Pyrene	mg/kg	0.05	MCERTS	-	5.5	< 0.05	0.49	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	3.1	< 0.05	0.20	
Chrysene	mg/kg	0.05	MCERTS	-	3.1	< 0.05	0.41	
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	6.3	< 0.05	0.54	
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	1.7	< 0.05	0.18	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	4.9	< 0.05	0.36	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	2.6	< 0.05	0.22	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	0.88	< 0.05	< 0.05	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	3.2	< 0.05	0.29	
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	41.5	< 0.80	3.55	
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	15	8.9	10	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.8	0.8	1.0	
Chromium (hexavalent)	mg/kg	4	MCERTS	-	< 4.0	< 4.0	< 4.0	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	32	23	25	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	60	23	49	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	160	50	95	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	0.8	< 0.3	< 0.3	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	33	26	29	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	110	48	100	
Pesticide and Herbicide Screen								
Pesticides/Herbicides Screen in Soil	P/A	N/A	NONE	Absent	-	-	-	

Analytical Report Number : 18-11421

Project / Site name: Land off Shawstead Road, Hale

* 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 *
1051589	BH3	None Supplied	0.10	Brown clay and sand with gravel and chalk.
1051590	BH5	None Supplied	0.10	Brown clay and sand with gravel and chalk.
1051591	TP1	None Supplied	0.10	Brown loam and clay with gravel and vegetation.
1051592	TP3	None Supplied	0.15	Brown loam and clay with gravel and vegetation.
1051593	TP4	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
1051594	TP6	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
1051595	WLS1	None Supplied	0.15	Brown loam and clay with gravel and vegetation.
1051596	WLS3	None Supplied	0.70	Brown clay and sand with gravel and chalk.
1051597	WLS5	None Supplied	0.15	Brown loam and clay with gravel and vegetation.

The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 18-11421

Project / Site name: Land off Shawstead Road, Hale

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS
Pesticides and Herbicides in soil screening	In-house method	In-house method		W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-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
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 based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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.

Sample ID	Other_ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
BH3		S	18-11421	1051589	c	Sulphide in soil	L010-PL	c
BH3		S	18-11421	1051589	c	Total cyanide in soil	L080-PL	c
BH5		S	18-11421	1051590	c	Sulphide in soil	L010-PL	c
BH5		S	18-11421	1051590	c	Total cyanide in soil	L080-PL	c
TP1		S	18-11421	1051591	c	Sulphide in soil	L010-PL	c
TP1		S	18-11421	1051591	c	Total cyanide in soil	L080-PL	c
TP3		S	18-11421	1051592	c	Sulphide in soil	L010-PL	c
TP3		S	18-11421	1051592	c	Total cyanide in soil	L080-PL	c
WLS1		S	18-11421	1051595	c	Sulphide in soil	L010-PL	c
WLS1		S	18-11421	1051595	c	Total cyanide in soil	L080-PL	c
WLS3		S	18-11421	1051596	c	Sulphide in soil	L010-PL	c
WLS3		S	18-11421	1051596	c	Total cyanide in soil	L080-PL	c
WLS5		S	18-11421	1051597	c	Sulphide in soil	L010-PL	c
WLS5		S	18-11421	1051597	c	Total cyanide in soil	L080-PL	c

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

APPENDIX E

Photographs

View north of southern parcel

View north east across southern parcel

View south of southern parcel

View east of steeply sloping ground in southern parcel

View north of woodland within southern parcel

View south of southern parcel

View south of southern parcel

View east of off-site recycling centre on former landfill

View north of western third of central parcel

View north of former Shawstead Road

View west of North Dane Way and housing development

View north west of northern site boundary and adjacent housing development

View north east of southern end of central parcel

Off-site former landfill to east.

Fly-tipping adjacent to Shawstead Road

Infilled well in area of former 'Maunders House'

View north east of open field in north eastern parcel

View south east of open field in north eastern parcel

Trackway through woodland within north eastern parcel

Access to north eastern field from Capstone Road

TP1

TP1 Spoil

TP2

TP2 Spoil

	
TP3	TP3 Spoil
	
TP4	TP4 Spoil
	
TP6	TP6 Spoil

	
	TP7 Spoil