Brown 2 Green Associates Ltd
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Saffron Walden, Essex
CB11 4LB
Tel: 01799 542473
Email: info@brown2green.co.uk
Web: www.brown2green.co.uk

Geotechnical and Geo-environmental Consultants

Our Ref: 2803/Rpt 2v1
Your Ref:

8th February 2023

ASB UK Ltd
1 Melbury Avenue
Southall
Middlesex
UB2 4HR

Dear Sir

Re: Gethceln House, Dawley Road, Hayes, London, UB3 1EH

Find attached the results of the verification completed at the above site.

Yours sincerely
For and on behalf of Brown 2 Green Associates Ltd

Philip Miles
Director

VERIFICATION REPORT

SITE: GETHCELN HOUSE, DAWLEY ROAD, HAYES, LONDON, UB3 1EH

1.0 Introduction

This report presents the results of verification completed at the above site. The objective of the verification is to confirm that soils that have been used with areas of soft landscaping are suitable for use and the recommendations made in the following report:

- Prepared by Brown 2 Green Associates Ltd, Supplementary Geo-environmental Site Investigation Report: Gethceln House, Dawley Road, Hayes, London, UB3 1EH, Ref 2803/Rpt 1 v1, dated May 2021.

The areas of soft landscaping are limited to narrow strips around the buildings. All other parts of the site are paved with hard standing or beneath the footprint of the building. Photographs of the completed site are presented in Attachemnt 1.

2.0 Verification

The verification was completed on 17th January 2023 and consisted of the excavation of hand dug trial pits to the base of the placed soil. The locations of the trial pits are presented in Figure 1.

Soil samples were obtained and submitted to a UKAS accredited laboratory for chemical analysis. Samples were analysed for a general contamination suite consisting of metals, total cyanide, total petroleum hydrocarbons, polycyclic aromatic hydrocarbons, asbestos.

3.0 Results

Sample Descriptions

The following ground conditions were encountered:

V1

Depth Range (m bgl)	Description
0.0 – 0.4	MADE GROUND – Pea shingle over brown fine to coarse SAND and fine to coarse GRAVEL of chert, flint, brick, concrete and occasional asphalt fragments

V2

Depth Range (m bgl)	Description
0.0 – 0.4	MADE GROUND – Pea shingle over brown fine to coarse SAND and fine to coarse GRAVEL of chert, flint, brick, concrete and occasional asphalt fragments

V3

Depth Range (m bgl)	Description
0.0 – 0.4	MADE GROUND – Pea shingle over brown fine to coarse SAND and fine to coarse GRAVEL of chert, flint, brick, concrete and occasional asphalt fragments

Chemical Analysis

Samples of soil used were submitted for analysis. The laboratory reports are presented in Attachment 2.

To determine suitability of the soils, the results have been compared with the human health generic assessment criteria based on an industrial land use that were adopted for the site investigation. All the concentrations were less than the assessment criteria.

Water Supply Pipework

We can confirm that hydrocarbon resistant barrier pipework has been installed.

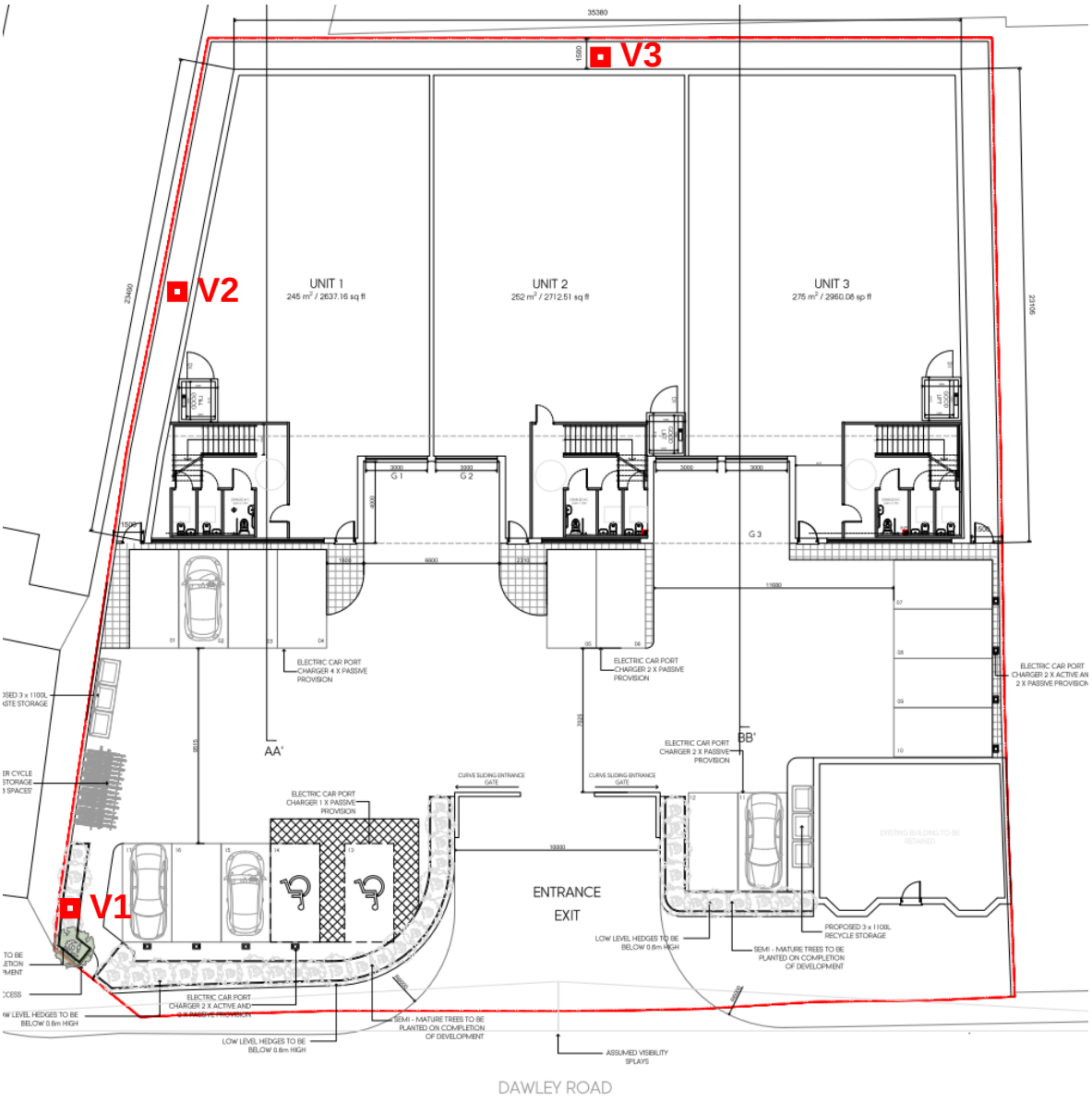
5.0 Conclusions

From the results the verification confirms that:

- The chemical quality of the soil used in areas of soft landscaping is suitable for an industrial/commercial land use.

- As recommended within the site investigation report prepared by Brown 2 Green Associates Ltd, hydrocarbon resistant barrier pipework has bene used for drinking water supply pipework.

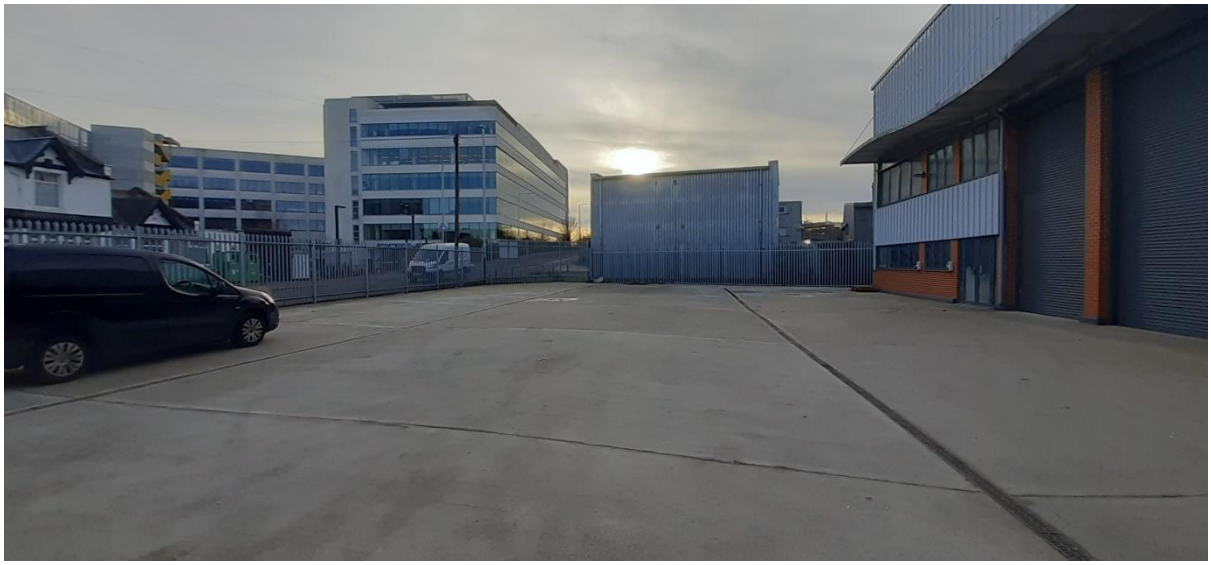
- Based on the findings of the contaminated land assessment and the verification works undertaken, it is concluded that the site will not pose a unacceptable level of risk to human health and environmental receptors



Project Number: 2803	Project: Gethceln House, Dawley Road, Hayes, London	Scale: NTS
Figure 1	**Verification Point Location Plan**	Brown2Green

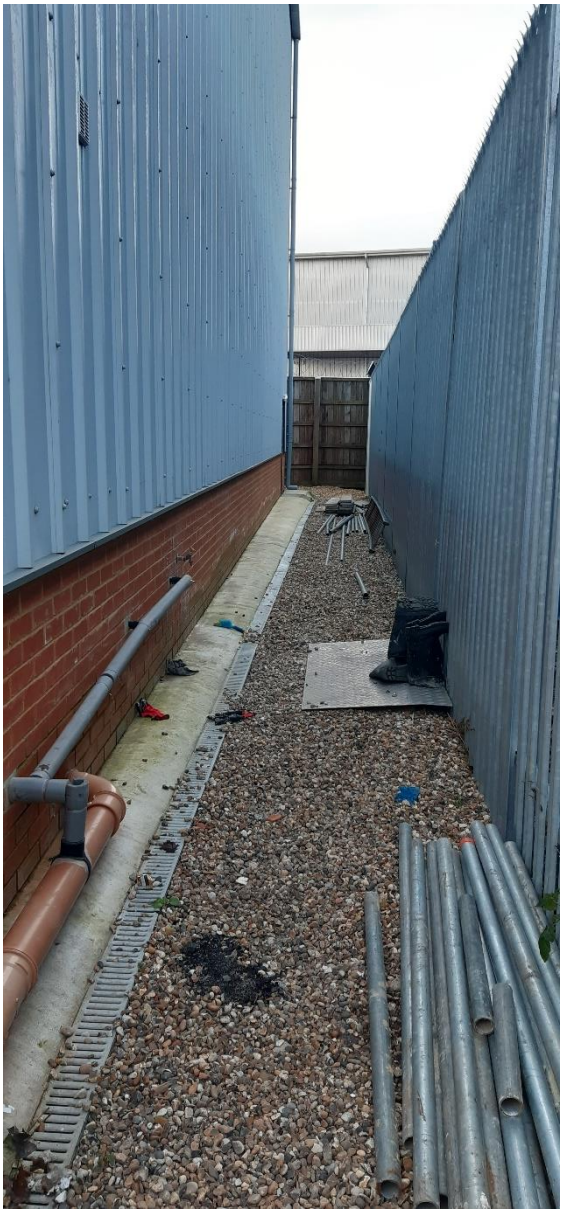
Attachment 1

Photographs



Southern side of site

Western Boundary



Northern boundary

Attachment 2

Laboratory Results

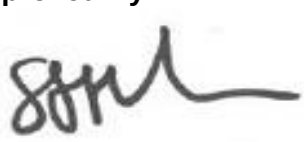
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-01763-1
Initial Date of Issue:	07-Feb-2023
Client	Brown 2 Green Associates
Client Address:	Suite 1, Wenden Court Station Road Wendens Ambo Nr. Saffron Walden Essex CB11 4LB
Contact(s):	Philip Miles Radu Mihai Ilie
Project	2803 Gethceln House, Dawley Road, Hayes

Quotation No.:		**Date Received:**	20-Jan-2023
Order No.:		**Date Instructed:**	20-Jan-2023
No. of Samples:	3		
Turnaround (Wkdays):	10	**Results Due:**	02-Feb-2023
Date Approved:	07-Feb-2023	**Subcon Results Due:**	10-Feb-2023

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: 2803 Gethceln House, Dawley Road, Hayes

Client: Brown 2 Green Associates			**Chemtest Job No.:**		23-01763	23-01763	23-01763
Quotation No.:			**Chemtest Sample ID.:**		1576922	1576923	1576924
			Sample Location:		V1	V2	V3
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		0.00	0.00	0.00
			Bottom Depth (m):		0.30	0.30	0.30
			Date Sampled:		17-Jan-2023	17-Jan-2023	17-Jan-2023
			Asbestos Lab:		DURHAM	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
EPH Aro Ali Soils	SN		µg/kg	20	See Attached	See Attached	See Attached
VPH Aro Ali Soils	SN		µg/kg	20	See Attached	See Attached	See Attached
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	18	14	15
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	40% Stones	50% Stones	35% Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand
pH	M	2010		4.0	8.4	9.1	8.2
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2455	mg/kg	0.5	8.1	8.0	7.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	19	20	11
Copper	M	2455	mg/kg	0.50	330	160	48
Mercury	M	2455	mg/kg	0.05	0.09	0.14	0.10
Nickel	M	2455	mg/kg	0.50	10	13	9.4
Lead	M	2455	mg/kg	0.50	92	70	45
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	21	29	21
Zinc	M	2455	mg/kg	0.50	540	180	110
Organic Matter	M	2625	%	0.40	3.5	2.5	2.1
Naphthalene	M	2700	mg/kg	0.10	< 0.10	0.55	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	0.16	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	0.17	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	0.37	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	0.96	0.76	0.42
Anthracene	M	2700	mg/kg	0.10	0.37	0.39	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	1.8	1.7	1.4
Pyrene	M	2700	mg/kg	0.10	1.7	1.9	1.5
Benzo[a]anthracene	M	2700	mg/kg	0.10	0.95	1.0	0.80
Chrysene	M	2700	mg/kg	0.10	1.0	1.5	1.2
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	1.3	1.3	1.1
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	0.63	0.71	0.52
Benzo[a]pyrene	M	2700	mg/kg	0.10	0.90	1.0	0.79
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 2803 Gethceln House, Dawley Road, Hayes

Client: Brown 2 Green Associates			**Chemtest Job No.:**		23-01763	23-01763	23-01763
Quotation No.:			**Chemtest Sample ID.:**		1576922	1576923	1576924
			Sample Location:		V1	V2	V3
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		0.00	0.00	0.00
			Bottom Depth (m):		0.30	0.30	0.30
			Date Sampled:		17-Jan-2023	17-Jan-2023	17-Jan-2023
			Asbestos Lab:		DURHAM	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Total Of 16 PAH's	M	2700	mg/kg	2.0	9.6	12	7.7

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Jason King
Eurofins Chemtest Ltd
Depot Road
Newark
Suffolk
CB8 0AL

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-01049

Site Reference:	None Supplied
Project / Job Ref:	23-01763
Order No:	24030
Sample Receipt Date:	26/01/2023
Sample Scheduled Date:	26/01/2023
Report Issue Number:	2
Reporting Date:	03/02/2023

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.
This report supersedes 23-01049, issue no.1.
Reason for re-issue:
BTEX & MTBE results removed and HWOL Format added.

DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 23-01049	**Date Sampled**	17/01/23	17/01/23	17/01/23		
Eurofins Chemtest Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: None Supplied	**TP / BH No**	1576922	1576923	1576924		
Project / Job Ref: 23-01763	**Additional Refs**	V1	V2	V3		
Order No: 24030	**Depth (m)**	None Supplied	None Supplied	None Supplied		
Reporting Date: 03/02/2023	**DETS Sample No**	630443	630444	630445		

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01		
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05		
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	**MCERTS**	< 2	< 2	< 2		
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	**MCERTS**	< 2	< 2	< 2		
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	**MCERTS**	< 3	< 3	< 3		
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	**MCERTS**	< 3	< 3	< 3		
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	**MCERTS**	< 10	< 10	< 10		
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	< 21		
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01		
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05		
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	**MCERTS**	< 2	< 2	< 2		
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	**MCERTS**	< 2	< 2	< 2		
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	**MCERTS**	< 2	< 2	4		
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	**MCERTS**	< 3	< 3	4		
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	**MCERTS**	24	10	< 10		
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	24	< 21	< 21		
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Total	mg/kg	< 42	NONE	< 42	< 42	< 42		

DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 23-01049	
Eurofins Chemtest Ltd	
Site Reference: None Supplied	
Project / Job Ref: 23-01763	
Order No: 24030	
Reporting Date: 03/02/2023	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
630443	1576922	V1	None Supplied	17.6	Brown gravelly sand with stones
630444	1576923	V2	None Supplied	10.6	Brown gravelly sand with stones and brick
630445	1576924	V3	None Supplied	17.4	Brown gravelly sand with stones and concrete

Moisture content is part of procedure E003 & is not an accredited test
Insufficient Sample I/S
Unsuitable Sample U/S

DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 23-01049
Eurofins Chemtest Ltd
Site Reference: None Supplied
Project / Job Ref: 23-01763
Order No: 24030
Reporting Date: 03/02/2023

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

List of HWOL Acronyms and Operators
DETS Report No: 23-01049
Eurofins Chemtest Ltd
Site Reference: None Supplied
Project / Job Ref: 23-01763
Order No: 24030
Reporting Date: 03/02/2023

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

Det - Acronym
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total