

Project Details

Client	White Horse Contracting	Project Number	213470
Project	Sipson Lane, Hayes UB3 5AQ	Sampling Date	21/12/2021
AAe Operative	Mark H Anderson	Test Report Ref	21-45541

Scope of works						
Description of works	Hand pit through topsoil encountered at the site between 0.0 to 0.3 m for chemical sampling.					
Laboratory Testing	Environmental			Geotechnical		
	AAe Soil Suite 1			NA		
Sample Locations	Reference	X Co-ordinate	Y Co-ordinate	Sample Depth		Comments
				T	B	
	S1	508300	178006	0.00	0.30	Sandy Topsoil
	S2	508278	178010	0.00	0.30	Sandy Topsoil
	S3	508303	178026	0.00	0.30	Sandy slightly gravelly Topsoil.
	S4	508280	178028	0.00	0.30	Sandy Topsoil
Comments	Material across site remained consistent. No contamination noted or Made Ground noted.					

Location/Sample Plan



Photo Record



Comment

Project
213470

Reference
S1

Date
21/12/2021

Originator
Mark H Anderson

Photo Record



Comment	Project
	213470
	Reference
	S2
	Date
	21/12/2021
	Originator
	Mark H Anderson

Photo Record



Comment

Project

213470

Reference

S3

Date

21/12/2021

Originator

Mark H Anderson

AA Environmental Limited

4-8 Cholswell Court

Shippon

Abingdon

OX13 6HX

(01235) 536042

www.aae-ltd.co.uk

Photo Record



Comment

Project
213470

Reference
S4

Date
21/12/2021

Originator
Mark H Anderson



2183

Interim Report

Report No.: 21-45541-0

Initial Date of Issue:

Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 213470, Sipson Lane, Hayes

Quotation No.: **Date Received:** 23-Dec-2021

Order No.: **Date Instructed:** 23-Dec-2021

No. of Samples: 4

Turnaround (Wkdays): 11 **Results Due:** 10-Jan-2022

Date Approved:

Approved By:

Details:

Please note that the interim data available has passed our Quality Control Criteria but has not been verified by an approved signatory and may be subject to amendment on approval. Chemtest cannot therefore be held responsible for decisions made on interim data sets but only for the data submitted on a final report containing an approval date and signature.

Results - Soil

Project: 213470, Sipson Lane, Hayes

Client: AA Environmental Ltd	Chemtest Job No.:				21-45541	21-45541	21-45541	21-45541
Quotation No.:	Chemtest Sample ID.:				1346513	1346514	1346515	1346516
Order No.:	Client Sample Ref.:				TS	TS	TS	TS
	Sample Location:				S1	S2	S3	S4
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.0	0.0	0.0	0.0
	Bottom Depth (m):				0.3	0.3	0.3	0.3
	Date Sampled:				21-Dec-2021	21-Dec-2021	21-Dec-2021	21-Dec-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	16	14	12	16
pH	U	2010		4.0	8.0	7.7	7.6	7.5
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	To Follow	To Follow	To Follow	To Follow
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	To Follow	To Follow	To Follow	To Follow
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.1	0.96	0.76	0.68
Arsenic	U	2450	mg/kg	1.0	24	38	50	36
Cadmium	U	2450	mg/kg	0.10	0.36	1.1	0.75	0.19
Chromium	U	2450	mg/kg	1.0	22	36	39	19
Copper	U	2450	mg/kg	0.50	23	34	39	17
Mercury	U	2450	mg/kg	0.10	0.24	0.95	0.47	0.37
Nickel	U	2450	mg/kg	0.50	14	25	29	14
Lead	U	2450	mg/kg	0.50	52	85	130	54
Selenium	U	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	100	150	140	150
Zinc	U	2450	mg/kg	0.50	71	96	110	49
Chromium (Hexavalent)	N	2490	mg/kg	0.50	To Follow	To Follow	To Follow	To Follow
Total Organic Carbon	U	2625	%	0.20	1.3	1.2	1.0	2.0
Florisil Cleanup	N		-	N/A	Done	Done	Done	Done
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	60	120	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	60	120	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	5.7	< 1.0	< 1.0

Results - Soil

Project: 213470, Sipson Lane, Hayes

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Order No.:	Client Sample Ref.:				TS	TS	TS	TS
	Sample Location:				S1	S2	S3	S4
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.0	0.0	0.0	0.0
	Bottom Depth (m):				0.3	0.3	0.3	0.3
	Date Sampled:				21-Dec-2021	21-Dec-2021	21-Dec-2021	21-Dec-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	130	210	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	130	210	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	190	330	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	0.23	0.51	0.56	0.63
Pyrene	U	2700	mg/kg	0.10	0.25	0.46	0.56	0.67
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	0.26	0.29	0.36
Chrysene	U	2700	mg/kg	0.10	< 0.10	0.41	0.43	0.72
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	0.48	0.39	0.70
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	0.31	0.26	0.43
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	0.25	0.36	0.36
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	2.7	2.8	3.8
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

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	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2450	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.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
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; Dibenzo[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)
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

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