



Interim Report

Report No.:	23-01619-0		
Initial Date of Issue:			
Client	Zak Rees Barrington		
Client Address:	1 Farrington Avenue Withington Manchester M20 1ER		
Contact(s):	Zak Rees Barrington		
Project	Garage Area		
Quotation No.:	Q22-29417	Date Received:	19-Jan-2023
Order No.:		Date Instructed:	19-Jan-2023
No. of Samples:	2		
Turnaround (Wkdays):	10	Results Due:	01-Feb-2023
Date Approved:		Subcon Results Due:	09-Feb-2023
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 - Gas

Project: Garage Area

Client: Zak Rees Barrington	Chemtest Job No.:		23-01619		
Quotation No.: Q22-29417	Chemtest Sample ID.:		1576421		
	Client Sample ID.:		Sample 1		
	Sample Location:		Garage Area		
	Sample Type:		GAS		
	Date Sampled:		12-Jan-2023		
	Time Sampled:		12:15		
Determinand	Accred.	SOP	Units	LOD	
Methane	S		% v/v	0.50	To Follow
Carbon Dioxide	S		% v/v	0.50	To Follow

Results - Soil

Project: Garage Area

Client: Zak Rees Barrington	Chemtest Job No.:		23-01619		
Quotation No.: Q22-29417	Chemtest Sample ID.:		1576420		
	Client Sample ID.:		Sample 1		
	Sample Location:		Garage Area		
	Sample Type:		SOIL		
	Date Sampled:		12-Jan-2023		
	Time Sampled:		12:10		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001	-
Total Asbestos	U	2192	%	0.001	-
Moisture	N	2030	%	0.020	13
Acidity	N	N/A	mg CaCO ₃ /l	1.0	< 1.0
Alkali Reserve	N	2105	g NaOH eq	0.010	< 0.010
Chromatogram (TPH)	N			N/A	See Attached
pH	U	2010		4.0	6.3
Sulphate (2:1 Water Soluble) as SO ₄	U	2120	g/l	0.010	< 0.010
Chloride (Water Soluble)	U	2220	g/l	0.010	< 0.010
Cyanide (Complex)	U	2300	mg/kg	0.50	< 0.50
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50
Thiocyanate	U	2300	mg/kg	5.0	< 5.0
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.2
Ammoniacal Nitrogen	U	2425	mg/kg	0.50	15
Iron (Total)	N	2430	mg/kg	100	8600
Sulphate (Total)	U	2430	mg/kg	100	< 100
Sulphate (Acid Soluble)	U	2430	%	0.010	0.046
Arsenic	U	2455	mg/kg	0.5	10
Barium	U	2455	mg/kg	0	55
Cadmium	U	2455	mg/kg	0.10	0.18
Molybdenum	U	2455	mg/kg	0.5	1.5
Antimony	N	2455	mg/kg	2.0	< 2.0
Copper	U	2455	mg/kg	0.50	24
Mercury	U	2455	mg/kg	0.05	0.19
Nickel	U	2455	mg/kg	0.50	9.0
Lead	U	2455	mg/kg	0.50	84
Selenium	U	2455	mg/kg	0.25	0.41
Vanadium	U	2455	mg/kg	0.5	12
Zinc	U	2455	mg/kg	0.50	55
Aliphatic VPH >C5-C6	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	U	2780	mg/kg	0.05	< 0.05

Results - Soil

Project: Garage Area

Client: Zak Rees Barrington	Chemtest Job No.:		23-01619		
Quotation No.: Q22-29417	Chemtest Sample ID.:		1576420		
	Client Sample ID.:		Sample 1		
	Sample Location:		Garage Area		
	Sample Type:		SOIL		
	Date Sampled:		12-Jan-2023		
	Time Sampled:		12:10		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
Aliphatic VPH >C8-C10	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12	U	2690	mg/kg	2.00	2.5
Aliphatic EPH >C12-C16	U	2690	mg/kg	1.00	6.7
Aliphatic EPH >C16-C21	U	2690	mg/kg	2.00	4.5
Aliphatic EPH >C21-C35	U	2690	mg/kg	3.00	6.5
Aliphatic EPH >C35-C40	N	2690	mg/kg	1.00	< 1.0
Total Aliphatic EPH >C10-C35	U	2690	mg/kg	5.00	20
Total Aliphatic EPH >C10-C40	N	2690	mg/kg	10.00	20.29
Aromatic VPH >C5-C7	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16	U	2690	mg/kg	1.00	4.1
Aromatic EPH >C16-C21	N	2690	mg/kg	2.00	21
Aromatic EPH >C21-C35	U	2690	mg/kg	2.00	37
Aromatic EPH >C35-C40	N	2690	mg/kg	1.00	3.5
Total Aromatic EPH >C10-C35	U	2690	mg/kg	5.00	63
Total Aromatic EPH >C10-C40	N	2690	mg/kg	10.00	65.61
Total VPH >C5-C10	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35	U	2690	mg/kg	10.00	83
Total EPH >C10-C40	N	2690	mg/kg	10.00	85.90
Total TPH >C6-C40	U	2670	mg/kg	10	74
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0
Chloromethane	U	2760	µg/kg	1.0	< 1.0
Vinyl Chloride	U	2760	µg/kg	1.0	< 1.0
Bromomethane	U	2760	µg/kg	20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0	< 1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0	< 1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0
Trichloromethane	U	2760	µg/kg	1.0	< 1.0
1,1,1-Trichloroethane	U	2760	µg/kg	1.0	< 1.0
Tetrachloromethane	U	2760	µg/kg	1.0	< 1.0

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Quotation No.: Q22-29417	Chemtest Sample ID.:		1576420		
	Client Sample ID.:		Sample 1		
	Sample Location:		Garage Area		
	Sample Type:		SOIL		
	Date Sampled:		12-Jan-2023		
	Time Sampled:		12:10		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0
Benzene	U	2760	µg/kg	1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0
Dibromomethane	U	2760	µg/kg	1.0	< 1.0
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
Toluene	U	2760	µg/kg	1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10	< 10
Tetrachloroethene	U	2760	µg/kg	1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0
Styrene	U	2760	µg/kg	1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0	< 1.0
Bromobenzene	U	2760	µg/kg	1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50

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	Sample Location:		Garage Area		
	Sample Type:		SOIL		
	Date Sampled:		12-Jan-2023		
	Time Sampled:		12:10		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0
Hexachlorobutadiene	N	2760	µg/kg	1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0
Naphthalene	U	2800	mg/kg	0.10	0.18
Acenaphthylene	N	2800	mg/kg	0.10	0.16
Acenaphthene	U	2800	mg/kg	0.10	0.17
Fluorene	U	2800	mg/kg	0.10	0.17
Phenanthrene	U	2800	mg/kg	0.10	2.0
Anthracene	U	2800	mg/kg	0.10	0.47
Fluoranthene	U	2800	mg/kg	0.10	3.6
Pyrene	U	2800	mg/kg	0.10	2.8
Benzo[a]anthracene	U	2800	mg/kg	0.10	1.6
Chrysene	U	2800	mg/kg	0.10	1.6
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	2.1
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	0.90
Benzo[a]pyrene	U	2800	mg/kg	0.10	1.3
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	1.1
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	1.1
Total Of 16 PAH's	N	2800	mg/kg	2.0	19

TPH Chromatogram on Soil Sample: 1576420

TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
23-01619	1576420	S	Garage Area		Sample 1			N/A

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
2105	Alkali Reserve	Alkali Reserve	Titration
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2300	Cyanides & Thiocyanate in Soils	Free (or easily 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.
2425	Extractable Ammonium in soils	Ammonium	Extraction with potassium chloride solution / analysis by 'Aquakem 600' Discrete Analyser using sodium salicylate and sodium dichloroisocyanurate.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
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.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS

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