



Amended Report

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

Report No.:	22-41703-2		
Initial Date of Issue:	15-Nov-2022	Date of Re-Issue:	16-Nov-2022
Client	Springbridge Direct Ltd		
Client Address:	Oxford Road Denham Middlesex UB9 4DF		
Contact(s):	Ellissa Dunn Tom Hawkins		
Project	Springbridge Yard		
Quotation No.:	Q22-26866	Date Received:	01-Nov-2022
Order No.:	128114	Date Instructed:	01-Nov-2022
No. of Samples:	2		
Turnaround (Wkdays):	10	Results Due:	14-Nov-2022
Date Approved:	15-Nov-2022		
Approved By:			
1 -			

Details:

Stuart Henderson, Technical Manager

Project: Springbridge Yard

Client: Springbridge Direct Ltd		22-41703				
Quotation No.: Q22-26866		Chemtest Sample ID.:				
Order No.: 128114		Topsoil				
		Client Sample ID.:			Тор	
		Sample Type:			SOIL	
			Date Sa	ampled:	27-Oct-2022	
			Asbest	os Lab:	COVENTRY	
Determinand	Accred.	SOP	Units	LOD		
АСМ Туре	U	2192		N/A	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected	
Moisture	N	2030	%	0.020	13	
Soil Colour	N	2040		N/A	Brown	
Other Material	N	2040		N/A	Stones	
Soil Texture	Ν	2040		N/A	Sand	
Boron (Hot Water Soluble)	М	2120	mg/kg	0.40	3.6	
Cyanide (Total)	М	2300	mg/kg	0.50	< 0.50	
Arsenic	М	2455	mg/kg	0.5	7.1	
Cadmium	М	2455	mg/kg	0.10	0.12	
Chromium	М	2455	mg/kg	0.5	8.9	
Copper	М	2455	mg/kg	0.50	13	
Mercury	М	2455	mg/kg	0.05	< 0.05	
Nickel	М	2455	mg/kg	0.50	5.2	
Lead	М	2455	mg/kg	0.50	19	
Selenium	М	2455	mg/kg	0.25	< 0.25	
Zinc	М	2455	mg/kg	0.50	48	
Chromium (Hexavalent)	Ν	2490	mg/kg	0.50	< 0.50	
Aliphatic TPH >C5-C6	Ν	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C6-C8	Ν	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C8-C10	Ν	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C12-C16	Ν	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C16-C21	Ν	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C21-C35	Ν	2680	mg/kg	1.0	< 1.0	
Aliphatic TPH >C35-C44	Ν	2680	mg/kg	1.0	< 1.0	
Total Aliphatic Hydrocarbons	Ν	2680	mg/kg	5.0	< 5.0	
Aromatic TPH >C5-C7	Ν	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	
Aromatic TPH >C35-C44	Ν	2680	mg/kg	1.0	< 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	
Naphthalene	N	2700	mg/kg	0.010	< 0.010	

Project: Springbridge Yard

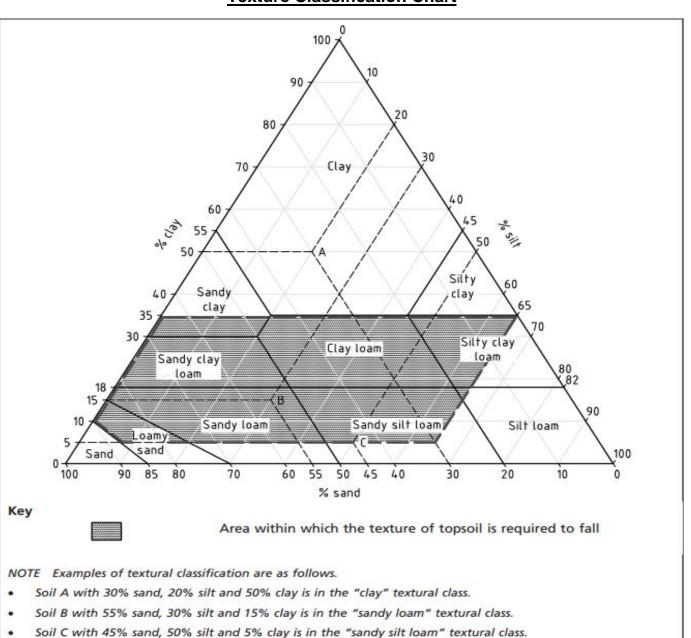
Client: Springbridge Direct Ltd		Chemtest Job No.:			
Quotation No.: Q22-26866	Chemtest Sample ID.:			1535848	
Order No.: 128114		Client Sample Ref.:			Topsoil
		Cli	ent Sam	ple ID.:	Тор
			Sampl	е Туре:	SOIL
			Date Sa	ampled:	27-Oct-2022
			Asbest	os Lab:	COVENTRY
Determinand	Accred.	SOP	Units	LOD	
Acenaphthylene	N	2700	mg/kg	0.010	< 0.010
Acenaphthene	N	2700	mg/kg	0.010	< 0.010
Fluorene	N	2700	mg/kg	0.010	< 0.010
Phenanthrene	N	2700	mg/kg	0.010	< 0.010
Anthracene	N	2700	mg/kg	0.010	< 0.010
Fluoranthene	N	2700	mg/kg	0.010	8.0
Pyrene	N	2700	mg/kg	0.010	1.0
Benzo[a]anthracene	N	2700	mg/kg	0.010	0.40
Chrysene	N	2700	mg/kg	0.010	0.87
Benzo[b]fluoranthene	N	2700	mg/kg	0.010	0.81
Benzo[k]fluoranthene	N	2700	mg/kg	0.010	0.96
Benzo[a]pyrene	N	2700	mg/kg	0.010	0.67
Indeno(1,2,3-c,d)Pyrene	N	2700	mg/kg	0.010	< 0.010
Dibenz(a,h)Anthracene	N	2700	mg/kg	0.010	< 0.010
Benzo[g,h,i]perylene	N	2700	mg/kg	0.010	< 0.010
Total Of 16 PAH's	N	2700	mg/kg	0.20	13
Benzene	М	2760	µg/kg	1.0	< 1.0
Toluene	М	2760	µg/kg	1.0	< 1.0
Ethylbenzene	М	2760	µg/kg	1.0	< 1.0
m & p-Xylene	М	2760	µg/kg	1.0	< 1.0
o-Xylene	М	2760	µg/kg	1.0	< 1.0
Total Phenols	М	2920	mg/kg	0.10	0.33

Chemtest Job No.: 22-41703 Chemtest Sample ID.: 1535848 Client Sample Ref.: Topsoil Sample Location: Client Sample ID.: Top Top Depth (m): Bottom Depth (m): Date Sampled: 27-Oct-2022 Time Sampled:

Parameter	Units	Multipurpose Range		Result	Compliant with Multipurpose Range? (Y/N)	Compliant with Specific Purpose Range? (Y/N)		rpose	
Texture						Acid	Low F	Calc.	
Clay content	%				8.1				
Silt content	%				8.1				
Sand content	%				84				
Soil texture class		See A	Attached	Chart	Loamy Sand	YES			
Mass Loss on Ignition									
Clay 5-20%			3.0-20		7.3	YES	YES	YES	YES
Clay 20-35%			5.0-20		7.5	TL5	TLS	1123	123
Stone Content	% m/m								
>2mm			0-30		22	YES			
>20mm		0-10		< 0.020	YES				
>50mm			0		< 0.020	YES			
Soil pH value		5.5-8.5		8.0	YES	NO	YES	YES	
Carbonate (Calcareous only)	%			4.1				YES	
Electrical Conductivity	µS/cm	If >3300 do ESP		3200	YES				
Available Nutrient Content									
Nitrogen %		>0.15		0.33	YES	YES		YES	
Extractable phosphorus	mg/l		16-140		17	YES	YES	YES	YES
Extractable potassium	mg/l	121-1500		230	YES	YES		YES	
Extractable magnesium	mg/l	51-600		58	YES	YES		YES	
Carbon : Nitrogen Ratio		<20:1		13.1/1	YES	YES	YES	YES	
Exchangeable sodium	%	<15		7.9					
Available Calcium	mg/l			580					
Available Sodium	mg/l			310					
Phytotoxic Contaminants (by soil pH)		< 6.0 6.0-7.0 > 7.0							
Zinc (Nitric Acid extract)	mg/kg	<200	<200	<300	33	YES			
Copper (Nitric Acid extract)	mg/kg	<100	<135	<200	10	YES			
Nickel (Nitric Acid extract)	mg/kg	<60 <75 <110		6.2	YES				
Visible Contaminants	% mm								
>2mm		<0.5			0.000	YES			
of which plastics		<0.25		0.000	YES				
man-made sharps		zero in 1kg		g	0.000	YES			

Topsoil: Texture Classification Chart

BS3882:2015



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Test Methods

SOP	Title	Parameters included	Method summary		
2010	pH Value of Soils	рН	pH Meter		
2020	Electrical Conductivity	Electrical conductivity (EC) of aqueous extract or calcium sulphate solution for topsoil	Measurement of the electrical resistance of a 2:1 water/soil extract.		
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		
2115	Total Nitrogen in Soils	Nitrogen	Determination by elemental analyser		
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES		
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry		
2260	Carbonate	Carbonate	Titration		
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.		
2400	Cations	Cations	ICP-MS		
2420	Phosphate	Phosphate	Spectrophotometry - Discrete analyser		
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.		
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.		
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.		
2620	LOI 440	LOI 440 Trommel Fines	Determination of the proportion by mass that is lost from a soil by ignition at 440°C.		
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; 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)		
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.		

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenol, Methylphenols, Dimethylphenols, 1- Naphthol and TrimethylphenolsNote:	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

- 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