

05/06/2020

J Reddington Ltd
4 Elstree Way
Borehamwood
Hertfordshire
WD6 1RN

Re: The Kampus, Manchester – Contamination Declaration

To whom it may concern,

Please accept this letter as confirmation that the works at the Kampus project, 47 Chorlton Street, Manchester, M1 3FY were carried out in line with the remediation strategy as outlined in Section 5.0 of the Ground Contamination Design Note prepared by Buro Happold Engineering (ref. BCG_DN_002 dated 31/05/2017).

J Reddington Ltd. confirm that no unexpected contamination was encountered during our contracted works. During the works, reassurance sampling was undertaken and the results are appended to this letter (ref. 17-31983-1 and 18-02017-1).

Yours sincerely,



Caroline Slevin
Group Environment Manager



J Reddington Ltd

4 Elstree way, Borehamwood, Hertfordshire, WD6 1RN.

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2183

Final Report

Report No.: 17-31983-1

Initial Date of Issue: 07-Dec-2017

Client Terragen Environmental Consultants Ltd

Client Address: The Ridings, 4 Village Close
Sherington
Buckinghamshire
MK16 9PZ

Contact(s): Paul Brewer

Project TJ3286 Chorlton Street, Manchester
M1 3GH

Quotation No.: **Date Received:** 30-Nov-2017

Order No.: TJ3286A01 **Date Instructed:** 30-Nov-2017

No. of Samples: 7

Turnaround (Wkdays): 5 **Results Due:** 06-Dec-2017

Date Approved: 07-Dec-2017

Approved By:



Details: Martin Dyer, Laboratory Manager

Results - Soil

Client: Terragen Environmental Consultants Ltd	Chemtest Job No.:				17-31983	17-31983	17-31983	17-31983	17-31983	17-31983	17-31983
Quotation No.:	Chemtest Sample ID.:				547540	547541	547542	547543	547544	547545	547546
Order No.: TJ3286A01	Client Sample Ref.:				Block F	Block F	Block F	Block F	Block F	Block F	Block F
	Client Sample ID.:				1	2	3	4	5	6	7
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.00	0.00	0.00	0.00	0.50	0.60	0.00
	Bottom Depth (m):				0.50	0.30	0.50	0.30	1.10	1.20	1.10
	Date Sampled:				29-Nov-2017	29-Nov-2017	29-Nov-2017	29-Nov-2017	29-Nov-2017	29-Nov-2017	29-Nov-2017
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	14	14	15	11	17	18	13
pH	U	2010		N/A	11.0	11.5	11.2	11.5	9.4	9.7	11.2
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	0.83	< 0.40	0.76	0.59	1.8	1.1	0.92
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	2.1	1.6	1.8	1.4	1.2	1.3	1.2
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	0.70	0.60	0.60	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	U	2325	mg/kg	0.50	9.0	9.5	17	16	12	10	9.8
Sulphate (Total)	U	2430	%	0.010	1.2	1.2	1.1	0.99	0.50	0.71	0.70
Arsenic	U	2450	mg/kg	1.0	26	27	27	29	37	37	38
Barium	U	2450	mg/kg	10	200	190	200	180	230	160	240
Beryllium	U	2450	mg/kg	1.0	1.4	1.5	1.7	1.4	2.5	2.4	1.8
Cadmium	U	2450	mg/kg	0.10	0.75	0.55	0.61	0.60	0.73	0.58	1.1
Chromium	U	2450	mg/kg	1.0	21	24	21	20	24	20	25
Molybdenum	U	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.6	5.4	2.5
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.5	3.3	3.3
Copper	U	2450	mg/kg	0.50	32	32	34	26	140	270	66
Mercury	U	2450	mg/kg	0.10	0.28	0.36	0.26	0.24	0.41	0.30	0.30
Nickel	U	2450	mg/kg	0.50	22	22	21	20	37	41	27
Lead	U	2450	mg/kg	0.50	76	57	60	110	270	190	96
Selenium	U	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	53	52	52	53	60	59	56
Zinc	U	2450	mg/kg	0.50	210	170	170	130	130	150	130
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	0.88	1.0	1.7	1.1	8.6	8.9	2.3
Fuel Type	N	2670		N/A	PAH	PAH	PAH	PAH	Weathered Diesel/PAH	PAH	PAH
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	3.1	< 1.0	< 1.0	< 1.0	7.1	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	12	16	6.0	7.3	52	2.9	4.2
TPH >C16-C21	N	2670	mg/kg	1.0	41	69	20	20	30	7.0	13

Results - Soil

Client: Terragen Environmental Consultants Ltd	Chemtest Job No.:				17-31983	17-31983	17-31983	17-31983	17-31983	17-31983	17-31983
Quotation No.:	Chemtest Sample ID.:				547540	547541	547542	547543	547544	547545	547546
Order No.: TJ3286A01	Client Sample Ref.:				Block F	Block F	Block F	Block F	Block F	Block F	Block F
	Client Sample ID.:				1	2	3	4	5	6	7
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.00	0.00	0.00	0.00	0.50	0.60	0.00
	Bottom Depth (m):				0.50	0.30	0.50	0.30	1.10	1.20	1.10
	Date Sampled:				29-Nov-2017	29-Nov-2017	29-Nov-2017	29-Nov-2017	29-Nov-2017	29-Nov-2017	29-Nov-2017
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
TPH >C21-C35	N	2670	mg/kg	1.0	62	93	51	29	21	12	21
Total TPH >C5-C35	N	2670	mg/kg	10	120	180	78	57	110	23	39
Naphthalene	U	2700	mg/kg	0.10	0.51	0.25	0.37	0.38	0.55	< 0.10	0.63
Acenaphthylene	U	2700	mg/kg	0.10	0.25	0.19	0.18	0.27	0.65	0.11	0.28
Acenaphthene	U	2700	mg/kg	0.10	0.59	0.47	0.64	0.41	0.77	0.22	0.94
Fluorene	U	2700	mg/kg	0.10	0.68	0.60	0.59	0.42	0.99	0.28	1.1
Phenanthrene	U	2700	mg/kg	0.10	3.8	3.3	3.6	2.8	3.0	1.3	5.2
Anthracene	U	2700	mg/kg	0.10	1.0	0.90	0.87	0.78	0.84	0.28	1.3
Fluoranthene	U	2700	mg/kg	0.10	5.7	5.1	5.7	3.7	3.4	1.4	6.3
Pyrene	U	2700	mg/kg	0.10	6.1	5.3	5.8	3.9	4.0	1.5	6.3
Benzo[a]anthracene	U	2700	mg/kg	0.10	2.3	2.2	2.4	1.7	1.6	0.70	2.5
Chrysene	U	2700	mg/kg	0.10	3.5	2.9	3.5	2.3	2.6	1.5	3.7
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	2.6	2.4	2.7	1.7	2.1	0.60	2.7
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	1.4	1.3	1.4	0.90	1.1	0.64	1.4
Benzo[a]pyrene	U	2700	mg/kg	0.10	2.0	1.9	2.2	1.5	1.4	0.52	2.1
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	1.2	0.94	1.1	0.46	0.79	0.20	1.5
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	0.45	0.41	0.54	0.21	0.26	0.14	0.53
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	1.6	1.1	1.4	1.3	1.2	0.39	2.5
Coronene	N	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[j]fluoranthene	N	2700	mg/kg	0.10	1.3	1.2	1.4	0.87	1.1	0.41	1.4
Total Of 16 PAH's	U	2700	mg/kg	2.0	34	29	33	23	25	9.8	39
Total Phenols	U	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

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.
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
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.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
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.
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.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
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
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
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"

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 45 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.co.uk



2183

Final Report

Report No.: 18-02017-1

Initial Date of Issue: 26-Jan-2018

Client Terragen Environmental Consultants Ltd

Client Address: The Ridings, 4 Village Close
Sherington
Buckinghamshire
MK16 9PZ

Contact(s): Paul Brewer

Project TJ3286 Chorlton Street Manchester M1
3GH

Quotation No.: **Date Received:** 24-Jan-2018

Order No.: TJ3286B01 **Date Instructed:** 24-Jan-2018

No. of Samples: 7

Turnaround (Wkdays): 3 **Results Due:** 26-Jan-2018

Date Approved: 26-Jan-2018

Approved By:



Details: Glynn Harvey, Laboratory Manager

Results - Soil

Client: Terragen Environmental Consultants Ltd	Chemtest Job No.:	18-02017	18-02017	18-02017	18-02017	18-02017	18-02017	18-02017
Quotation No.:	Chemtest Sample ID.:	568323	568324	568325	568326	568327	568328	568329
Order No.: TJ3286B01	Client Sample Ref.:	TP8	TP9	TP10	TP11	TP12	TP13	TP15
	Client Sample ID.:	1	2	3	4	5	6	7
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	3.0	2.7	3.2	3.1	2.5	3.0	2.9
	Date Sampled:	23-Jan-2018	23-Jan-2018	23-Jan-2018	23-Jan-2018	23-Jan-2018	23-Jan-2018	23-Jan-2018
	Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	13	14	16	18
pH	U	2010		N/A	9.7	8.3	8.4	8.6
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	0.48	< 0.40	0.50
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	0.22	0.032	< 0.010	0.027
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	0.90	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	U	2325	mg/kg	0.50	8.2	5.9	3.2	6.8
Sulphate (Total)	U	2430	%	0.010	0.13	0.070	0.037	0.056
Arsenic	U	2450	mg/kg	1.0	12	11	12	11
Barium	U	2450	mg/kg	10	140	140	170	150
Beryllium	U	2450	mg/kg	1.0	< 1.0	1.1	1.2	1.1
Cadmium	U	2450	mg/kg	0.10	0.69	0.10	0.12	0.10
Chromium	U	2450	mg/kg	1.0	27	28	35	32
Molybdenum	U	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper	U	2450	mg/kg	0.50	31	28	27	26
Mercury	U	2450	mg/kg	0.10	0.14	0.11	< 0.10	< 0.10
Nickel	U	2450	mg/kg	0.50	33	36	42	39
Lead	U	2450	mg/kg	0.50	42	27	18	17
Selenium	U	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	27	31	36	34
Zinc	U	2450	mg/kg	0.50	74	55	62	59
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	1.2	1.1	0.96	0.80
Fuel Type	N	2670		N/A	PAH	N/A	N/A	N/A
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	1.3	< 1.0	< 1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0	5.0	< 1.0	< 1.0	< 1.0
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	< 10	< 10	< 10

Results - Soil

Client: Terragen Environmental Consultants Ltd	Chemtest Job No.:	18-02017	18-02017	18-02017	18-02017	18-02017	18-02017	18-02017
Quotation No.:	Chemtest Sample ID.:	568323	568324	568325	568326	568327	568328	568329
Order No.: TJ3286B01	Client Sample Ref.:	TP8	TP9	TP10	TP11	TP12	TP13	TP15
	Client Sample ID.:	1	2	3	4	5	6	7
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	3.0	2.7	3.2	3.1	2.5	3.0	2.9
	Date Sampled:	23-Jan-2018	23-Jan-2018	23-Jan-2018	23-Jan-2018	23-Jan-2018	23-Jan-2018	23-Jan-2018
	Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
Naphthalene	U	2700	mg/kg	0.10	0.11	< 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	0.18	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	0.42	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	1.6	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	1.8	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	1.9	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	2.1	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
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
Coronene	N	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[j]fluoranthene	N	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	8.1	< 2.0	< 2.0	< 2.0
Total Phenols	U	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30

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.
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
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.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
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.
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.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
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
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
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"

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 45 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.co.uk