

Appendix H Geoenvironmental Laboratory Test Results



2183

Final Report

Report No.: 23-03301-1
Initial Date of Issue: 13-Feb-2023
Client Soiltechnics Limited
Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV5936 Cowm Top, Rochdale

Quotation No.: **Date Received:** 02-Feb-2023

Order No.: POR014612 **Date Instructed:** 02-Feb-2023

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 08-Feb-2023

Date Approved: 13-Feb-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: STV5936 Cowm Top, Rochdale

Client: Soiltechnics Limited	Chemtest Job No.:				23-03301	23-03301	23-03301
Quotation No.:	Chemtest Sample ID.:				1583177	1583178	1583179
Order No.: POR014612	Client Sample Ref.:				01	01	01
	Client Sample ID.:				Spring1_0.00-01	Spring2_0.00-01	Spring3_0.00-01
	Sample Location:				Spring 1	Spring 2	Spring 3
	Sample Type:				WATER	WATER	WATER
	Date Sampled:				30-Jan-2023	30-Jan-2023	30-Jan-2023
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.7	7.3	7.3
Nitrate as NO3	U	1220	mg/l	0.50	3.7	< 0.50	< 0.50
Phosphate	U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20
Sulphate	U	1220	mg/l	1.0	13	14	26
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Complex)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	[B] < 0.050	[B] < 0.050	[B] < 0.050
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.53	3.0	0.94
Boron (Dissolved)	U	1455	µg/l	10.0	35	34	41
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.15	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	5.2	5.2	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	18	4.0	2.6
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	3.4	3.0	1.2
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.3	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	2.7	2.3	2.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	1.2	2.3	1.1
Zinc (Dissolved)	U	1455	µg/l	2.5	60	10	2.6
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1583177	01	Spring1_0.00-01	Spring 1	30-Jan-2023	B	Coloured Winchester 1000ml
1583177	01	Spring1_0.00-01	Spring 1	30-Jan-2023	B	EPA Vial 40ml
1583178	01	Spring2_0.00-01	Spring 2	30-Jan-2023	B	Coloured Winchester 1000ml
1583178	01	Spring2_0.00-01	Spring 2	30-Jan-2023	B	EPA Vial 40ml
1583179	01	Spring3_0.00-01	Spring 3	30-Jan-2023	B	Coloured Winchester 1000ml
1583179	01	Spring3_0.00-01	Spring 3	30-Jan-2023	B	EPA Vial 40ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters 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	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) 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



2183

Final Report

Report No.:	23-06674-1		
Initial Date of Issue:	03-Mar-2023		
Client	Soiltechnics Limited		
Client Address:	Cedar Barn White Lodge Walgrave Northampton Northamptonshire NN6 9PY		
Contact(s):	Admin		
Project	STV5936 Cowm Top, Rochdale		
Quotation No.:		Date Received:	27-Feb-2023
Order No.:	POR014778	Date Instructed:	27-Feb-2023
No. of Samples:	3		
Turnaround (Wkdays):	5	Results Due:	03-Mar-2023
Date Approved:	03-Mar-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Water

Project: STV5936 Cowm Top, Rochdale

Client: Soiltechnics Limited	Chemtest Job No.:				23-06674	23-06674	23-06674
Quotation No.:	Chemtest Sample ID.:				1597962	1597963	1597964
Order No.: POR014778	Client Sample Ref.:				02	02	01
	Client Sample ID.:				Spring1_0.00-02	Spring3_0.00-02	Spring4_0.00-01
	Sample Location:				Spring 1	Spring 3	Spring 4
	Sample Type:				WATER	WATER	WATER
	Date Sampled:				22-Feb-2023	22-Feb-2023	22-Feb-2023
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.2	7.2	6.9
Nitrate as NO3	U	1220	mg/l	0.50	2.5	1.1	1.1
Phosphate	U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20
Sulphate	U	1220	mg/l	1.0	14	35	23
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Complex)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	[B] < 0.050	[B] < 0.050	[B] < 0.050
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.61	0.57	0.45
Boron (Dissolved)	U	1455	µg/l	10.0	57	56	61
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.33	0.13	0.20
Chromium (Dissolved)	U	1455	µg/l	0.50	1.2	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	30	8.3	3.6
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	4.6	2.8	2.7
Lead (Dissolved)	U	1455	µg/l	0.50	0.64	0.52	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	2.8	2.6	2.6
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	110	9.8	25
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1597962	02	Spring1_0.00-02	Spring 1	22-Feb-2023	B	Coloured Winchester 1000ml
1597962	02	Spring1_0.00-02	Spring 1	22-Feb-2023	B	EPA Vial 40ml
1597963	02	Spring3_0.00-02	Spring 3	22-Feb-2023	B	Coloured Winchester 1000ml
1597963	02	Spring3_0.00-02	Spring 3	22-Feb-2023	B	EPA Vial 40ml
1597964	01	Spring4_0.00-01	Spring 4	22-Feb-2023	B	Coloured Winchester 1000ml
1597964	01	Spring4_0.00-01	Spring 4	22-Feb-2023	B	EPA Vial 40ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	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	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) 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



2183

Final Report

Report No.: 23-09123-1
Initial Date of Issue: 24-Mar-2023
Client Soiltechnics Limited
Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV5936 Cowm Top, Rochdale

Quotation No.: **Date Received:** 17-Mar-2023

Order No.: POR014949 **Date Instructed:** 17-Mar-2023

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 23-Mar-2023

Date Approved: 24-Mar-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: STV5936 Cowm Top, Rochdale

Client: Soiltechnics Limited	Chemtest Job No.:				23-09123	23-09123	23-09123
Quotation No.:	Chemtest Sample ID.:				1609325	1609326	1609327
Order No.: POR014949	Client Sample Ref.:				03	03	03
	Client Sample ID.:				Spring1_0.00-03	Spring3_0.00-03	Spring4_0.00-02
	Sample Location:				Spring 1	Spring 3	Spring 4
	Sample Type:				WATER	WATER	WATER
	Top Depth (m):				0.00	0.00	0.00
	Date Sampled:				14-Mar-2023	14-Mar-2023	14-Mar-2023
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.2	7.3	7.3
Nitrate as NO3	U	1220	mg/l	0.50	12	13	7.4
Phosphate	U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20
Sulphate	U	1220	mg/l	1.0	9.5	18	11
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Complex)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	[B] 0.20	[B] 0.19	[B] 0.19
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.79	0.34	0.38
Boron (Dissolved)	U	1455	µg/l	10.0	23	31	28
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.21	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	19	2.1	5.0
Copper (Dissolved)	U	1455	µg/l	0.50	19	7.6	3.3
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	4.0	1.4	1.7
Lead (Dissolved)	U	1455	µg/l	0.50	1.5	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	0.71	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	77	9.4	16
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0

Results - Water

Project: STV5936 Cowm Top, Rochdale

Client: Soiltechnics Limited	Chemtest Job No.:				23-09123	23-09123	23-09123
Quotation No.:	Chemtest Sample ID.:				1609325	1609326	1609327
Order No.: POR014949	Client Sample Ref.:				03	03	03
	Client Sample ID.:				Spring1_0.00-03	Spring3_0.00-03	Spring4_0.00-02
	Sample Location:				Spring 1	Spring 3	Spring 4
	Sample Type:				WATER	WATER	WATER
	Top Depth (m):				0.00	0.00	0.00
	Date Sampled:				14-Mar-2023	14-Mar-2023	14-Mar-2023
Determinand	Accred.	SOP	Units	LOD			
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1609325	03	Spring1_0.00-03	Spring 1	14-Mar-2023	B	Coloured Winchester 1000ml
1609325	03	Spring1_0.00-03	Spring 1	14-Mar-2023	B	EPA Vial 40ml
1609326	03	Spring3_0.00-03	Spring 3	14-Mar-2023	B	Coloured Winchester 1000ml
1609326	03	Spring3_0.00-03	Spring 3	14-Mar-2023	B	EPA Vial 40ml
1609327	03	Spring4_0.00-02	Spring 4	14-Mar-2023	B	Coloured Winchester 1000ml
1609327	03	Spring4_0.00-02	Spring 4	14-Mar-2023	B	EPA Vial 40ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	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	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) 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



Final Report

Report No.: 24-25015-1

Initial Date of Issue: 19-Aug-2024

Re-Issue Details:

Client Soiltechnics Limited

Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV5936 Cowm Top

Quotation No.: **Date Received:** 05-Aug-2024

Order No.: POR019404 **Date Instructed:** 05-Aug-2024

No. of Samples: 49

Turnaround (Wkdays): 5 **Results Due:** 09-Aug-2024

Date Approved: 19-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846210	1846211	1846212	1846213	1846214	1846215	1846216	1846217
Order No.: POR019404		Client Sample Ref.:					2	6	14	1	1	1	2	1
		Client Sample ID.:					TP03-0.7-2	TP03-0.1-6	BH05-0.1-14	TP04-0.1-1	TP06-0.1-1	TP07-0.1-1	TP07-0.4-2	TP10-0.1-1
		Sample Location:					TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.70	0.10	0.10	0.10	0.10	0.10	0.40	0.10
		Bottom Depth (m):					1.30		0.45					
		Date Sampled:					15-Jul-2024	15-Jul-2024	15-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	18-Jul-2024
		Time Sampled:					15:53	15:54	16:19	10:30	11:30	12:42	12:43	8:43
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	19	12	15	22	15	25	13	24	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones, Roots and Wood	Roots	Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand	
pH at 20C		M	2010		4.0	8.1	8.2	7.9	8.2	8.2	8.3	8.4	8.3	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.64	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 0.50	[B] 0.50	[B] 0.80	[B] 1.2	[B] 1.0	[B] 0.60	[B] < 0.50	[B] 0.60	
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 0.50	[B] 0.90	[B] 0.90	[B] 1.3	[B] 1.1	[B] 0.70	[B] < 0.50	[B] 0.60	
Arsenic		M	2455	mg/kg	0.5	10	18	10	12	4.2	7.0	5.8	9.3	
Beryllium		U	2455	mg/kg	0.5	< 0.5	3.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.21	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	14	56	7.9	9.2	14	23	16	28	
Copper		M	2455	mg/kg	0.50	19	130	25	25	9.9	17	16	19	
Mercury		M	2455	mg/kg	0.05	0.11	0.12	0.12	0.11	0.05	0.08	< 0.05	0.10	
Nickel		M	2455	mg/kg	0.50	12	55	6.4	7.1	9.4	13	16	11	
Lead		M	2455	mg/kg	0.50	36	120	38	62	19	35	14	46	
Selenium		M	2455	mg/kg	0.25	0.26	0.50	0.37	0.45	< 0.25	0.63	< 0.25	0.37	
Vanadium		U	2455	mg/kg	0.5	19	72	18	17	12	18	15	19	
Zinc		M	2455	mg/kg	0.50	46	140	27	25	27	42	36	49	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	3.6	38	3.1	6.0	3.6	3.6	1.3	3.8	
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 4.3	[B] < 1.0	[B] < 1.0	[B] 3.8	[B] 3.3	

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:		24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:		1846210	1846211	1846212	1846213	1846214	1846215	1846216	1846217	
Order No.: POR019404		Client Sample Ref.:		2	6	14	1	1	1	2	1	
		Client Sample ID.:		TP03-0.7-2	TP03-0.1-6	BH05-0.1-14	TP04-0.1-1	TP06-0.1-1	TP07-0.1-1	TP07-0.4-2	TP10-0.1-1	
		Sample Location:		TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.70	0.10	0.10	0.10	0.10	0.10	0.40	0.10	
		Bottom Depth (m):		1.30		0.45						
		Date Sampled:		15-Jul-2024	15-Jul-2024	15-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	18-Jul-2024	
		Time Sampled:		15:53	15:54	16:19	10:30	11:30	12:42	12:43	8:43	
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 10	[B] < 1.0	[B] < 1.0	[B] 9.6
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 8.9	[B] 7.9	[B] < 1.0	[B] 11
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 9.7	[B] 7.2	[B] < 1.0	[B] 7.3
Total TPH >C5-C35		N	2670	mg/kg	10	[B] < 10	[B] < 10	[B] < 10	[B] 33	[B] 15	[B] < 10	[B] 31
Naphthalene		M	2800	mg/kg	0.10	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.46	< 0.10	< 0.10	< 0.10	< 0.10	0.26
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.57	< 0.10	< 0.10	0.52	< 0.10	0.26
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846218	1846219	1846220	1846221	1846222	1846223	1846225
Order No.: POR019404		Client Sample Ref.:					2	1	1	1	2	1	2
		Client Sample ID.:					TP10-0.8-2	TP15-0.1-1	TP12-0.1-1	TP09-0.1-1	TP09-1.0--2	TP14-0.1-1	TP11-0.6-2
		Sample Location:					TP10	TP15	TP12	TP09	TP09	TP14	TP11
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.80	0.10	0.10	0.10	1.00	0.10	0.60
		Bottom Depth (m):											
		Date Sampled:					18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024
		Time Sampled:					9:51	10:18	10:32	11:07	11:07	11:55	12:19
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	14	21	22	26	15	27	12	23
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	None	Roots	Roots	Roots	Stones	Roots	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Sand	Sand	Sand	Clay	Sand	Clay	Sand
pH at 20C		M	2010		4.0	8.7	8.8	8.6	8.7	8.6	8.4	8.5	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.68	0.45	0.73	< 0.40	1.4	< 0.40	0.45
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] < 0.50	[B] 0.80	[B] 0.80	[B] 0.70	[B] < 0.50	[B] 0.60	[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] 1.0	[B] 0.90	[B] 0.70	[B] < 0.50	[B] 0.70	[B] < 0.50	[B] 0.50
Arsenic		M	2455	mg/kg	0.5	5.4	11	15	4.4	5.0	4.4	14	12
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.7	< 0.5	< 0.5	0.6	< 0.5	0.7	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.52	0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10
Chromium		M	2455	mg/kg	0.5	15	19	15	13	19	14	76	17
Copper		M	2455	mg/kg	0.50	16	26	35	13	16	14	31	35
Mercury		M	2455	mg/kg	0.05	< 0.05	0.09	0.12	0.05	< 0.05	0.06	0.10	0.08
Nickel		M	2455	mg/kg	0.50	19	7.3	8.2	7.6	22	9.3	31	17
Lead		M	2455	mg/kg	0.50	16	71	57	24	9.9	29	51	46
Selenium		M	2455	mg/kg	0.25	0.62	2.4	0.55	0.31	0.39	0.36	0.98	0.55
Vanadium		U	2455	mg/kg	0.5	17	15	18	11	19	12	30	23
Zinc		M	2455	mg/kg	0.50	39	39	48	26	39	36	89	55
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	0.83	6.0	5.2	5.9	1.1	7.1	2.2	6.9
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] 3.8	[B] 4.4	[B] 4.4	[B] 4.8	[B] < 1.0	[B] 4.4	[B] < 1.0	[B] 5.4

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846218	1846219	1846220	1846221	1846222	1846223	1846224	1846225
Order No.: POR019404		Client Sample Ref.:				2	1	1	1	2	1	2	3
		Client Sample ID.:				TP10-0.8-2	TP15-0.1-1	TP12-0.1-1	TP09-0.1-1	TP09-1.0--2	TP14-0.1-1	TP11-0.6-2	TP08-0.9-3
		Sample Location:				TP10	TP15	TP12	TP09	TP09	TP14	TP11	TP08
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.80	0.10	0.10	0.10	1.00	0.10	0.60	0.90
		Bottom Depth (m):											
		Date Sampled:				18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024
		Time Sampled:				9:51	10:18	10:32	11:07	11:07	11:55	12:19	12:33
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] 11	[B] 10	[B] 10	[B] 12	[B] < 1.0	[B] 11	[B] < 1.0	[B] 14
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] 9.6	[B] 7.8	[B] 8.4	[B] 8.8	[B] < 1.0	[B] 11	[B] < 1.0	[B] 14
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] 5.3	[B] 6.9	[B] 6.7	[B] 6.3	[B] < 1.0	[B] 7.2	[B] < 1.0	[B] 11
Total TPH >C5-C35		N	2670	mg/kg	10	[B] 30	[B] 29	[B] 30	[B] 32	[B] < 10	[B] 34	[B] < 10	[B] 44
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.23	0.17	0.39	< 0.10	< 0.10	< 0.10	0.21
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.15	0.48	0.33	0.45	< 0.10	< 0.10	< 0.10	0.33
Pyrene		M	2800	mg/kg	0.10	0.18	0.45	0.33	0.39	< 0.10	< 0.10	< 0.10	0.29
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846226	1846227	1846228	1846229	1846230	1846231	1846233
Order No.: POR019404		Client Sample Ref.:					1	1	4	1	1	1	1
		Client Sample ID.:					TP16-0.1-1	WS04-0.15-1	BH010.104	BH020.101	BH030.101	BH060.101	TP20-0.1-1
		Sample Location:					TP16	WS04	BH01	BH02	BH03	BH06	TP20
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.15	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.35		0.40		
		Date Sampled:					18-Jul-2024	23-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	25-Jul-2024
		Time Sampled:					15:29	14:50	0:00	0:00	0:00	0:00	12:36
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	19	27	21	22	19	20	30	26
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Roots	Roots	Roots	Roots	Roots	Roots	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0	8.5	8.7	8.6	8.7	8.8	8.9	8.9	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	0.56	0.49	0.41	0.63	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 0.60	1.1	0.50	0.70	0.80	0.70	0.80	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 0.70	1.3	0.60	0.80	1.4	0.80	1.1	< 0.50
Arsenic		M	2455	mg/kg	0.5	11	10	8.4	14	10	11	9.9	23
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	0.79
Chromium		M	2455	mg/kg	0.5	9.2	8.9	9.8	8.6	6.3	10	12	14
Copper		M	2455	mg/kg	0.50	24	30	13	72	56	23	54	190
Mercury		M	2455	mg/kg	0.05	0.11	0.10	0.05	0.21	0.17	0.11	0.14	0.06
Nickel		M	2455	mg/kg	0.50	6.7	10	7.5	8.0	5.7	7.6	7.5	44
Lead		M	2455	mg/kg	0.50	47	52	24	57	44	51	58	50
Selenium		M	2455	mg/kg	0.25	0.65	0.55	0.63	0.58	0.49	0.44	0.37	1.4
Vanadium		U	2455	mg/kg	0.5	14	17	16	18	14	16	19	55
Zinc		M	2455	mg/kg	0.50	24	35	27	36	25	28	53	160
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	5.0	11	6.7	4.8	9.7	7.9	10	26
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	12
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] 4.3	6.0	4.2	6.1	4.3	4.2	6.2	13

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846226	1846227	1846228	1846229	1846230	1846231	1846232	1846233
Order No.: POR019404		Client Sample Ref.:				1	1	4	1	1	1	1	1
		Client Sample ID.:				TP16-0.1-1	WS04-0.15-1	BH010.104	BH020.101	BH030.101	BH060.101	TP20-0.1-1	TP19-0.1-1
		Sample Location:				TP16	WS04	BH01	BH02	BH03	BH06	TP20	TP19
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.10	0.15	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.35		0.40		
		Date Sampled:				18-Jul-2024	23-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:				15:29	14:50	0:00	0:00	0:00	0:00	12:36	12:49
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] 9.5	11	10	11	11	9.6	11	22
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] 8.4	11	8.9	8.5	9.8	11	12	14
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] 6.6	8.1	6.0	5.6	8.3	7.0	9.3	6.1
Total TPH >C5-C35		N	2670	mg/kg	10	[B] 29	36	29	32	33	32	39	67
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	< 0.10	0.12	< 0.10	0.14	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.10	0.24	0.13	< 0.10	0.18	0.13	0.24	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.10	0.24	0.11	< 0.10	0.16	0.13	0.22	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846234	1846235	1846236	1846237	1846238	1846239	1846241
Order No.: POR019404		Client Sample Ref.:					2	1	1	1	1	1	1
		Client Sample ID.:					TP19-1.2-2	TP17-0.1-1	BH08-0.1-1	BH10-0.1-1	TP22-0.1-1	TP24-0.1-1	TP25-0.1-1
		Sample Location:					TP19	TP17	BH08	BH10	TP22	TP24	TP25
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					1.20	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.40	0.40			0.40
		Date Sampled:					25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:					12:49	13:05	13:12	13:25	14:47	15:01	15:11
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	52	43	19	19	12	24	17	23
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay	Loam	Clay	Loam	Loam
pH at 20C		M	2010		4.0	8.4	7.6	8.3	7.5	8.0	7.9	7.8	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.56	< 0.40	< 0.40	0.96	< 0.40	0.56
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.60	0.70	0.90	< 0.50	< 0.50	0.60	< 0.50	0.60
Cyanide (Total)		M	2300	mg/kg	0.50	0.70	0.70	1.1	< 0.50	< 0.50	0.60	< 0.50	0.60
Arsenic		M	2455	mg/kg	0.5	1.6	9.1	19	5.9	9.0	8.1	5.9	22
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.6	0.6	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.30	0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	0.22
Chromium		M	2455	mg/kg	0.5	6.6	13	22	19	10	10	7.4	27
Copper		M	2455	mg/kg	0.50	6.6	35	41	18	21	23	24	67
Mercury		M	2455	mg/kg	0.05	0.07	0.38	0.53	< 0.05	0.06	0.10	0.05	0.49
Nickel		M	2455	mg/kg	0.50	6.2	19	17	22	11	10	7.8	13
Lead		M	2455	mg/kg	0.50	8.0	520	100	18	38	58	20	95
Selenium		M	2455	mg/kg	0.25	0.48	0.62	0.99	0.39	0.29	0.35	< 0.25	0.88
Vanadium		U	2455	mg/kg	0.5	8.6	15	26	18	16	14	12	26
Zinc		M	2455	mg/kg	0.50	24	56	84	47	47	30	31	80
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	21	12	5.3	2.9	2.9	26	4.5	5.7
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	6.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846234	1846235	1846236	1846237	1846238	1846239	1846240	1846241
Order No.: POR019404		Client Sample Ref.:				2	1	1	1	1	1	1	1
		Client Sample ID.:				TP19-1.2-2	TP17-0.1-1	BH08-0.1-1	BH10-0.1-1	TP22-0.1-1	TP24-0.1-1	TP25-0.1-1	BH11-0.1-1
		Sample Location:				TP19	TP17	BH08	BH10	TP22	TP24	TP25	BH11
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):						0.40	0.40				0.40
		Date Sampled:				25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:				12:49	13:05	13:12	13:25	14:47	15:01	15:04	15:11
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	< 10	48	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.45	< 0.10	< 0.10	< 0.10	< 0.10	0.18
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.22	0.43	< 0.10	< 0.10	0.22	< 0.10	0.40
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.20	0.40	< 0.10	< 0.10	0.20	< 0.10	0.40
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846242	1846243	1846244	1846245	1846246	1846247	1846248	1846249
Order No.: POR019404		Client Sample Ref.:					1	1	1	1	1	1	1	1
		Client Sample ID.:					SL01-0.1-1	SL02-0.1-1	SL03-0.1-1	SL04-0.1-1	SL05-0.1-1	SL06-0.1-1	SL07-0.1-1	SL08-0.1-1
		Sample Location:					SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):												
		Date Sampled:					26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:					9:38	9:39	9:40	9:41	9:42	9:42	9:43	9:44
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
ACM Type		U	2192		N/A	Fibres/Clumps	Fibres/Clumps, Paper Product/ Bitumen	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	Chrysotile	Chrysotile	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	18	10	26	19	28	14	22	16	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots, Glass and	Roots, Stones and	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Loam	Clay	Loam	Clay	Loam	Loam	Loam	Loam
pH at 20C		M	2010		4.0	7.7	7.7	7.6	7.5	7.7	7.6	7.2	7.5	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.56	0.54	< 0.40	0.54	0.59	0.42	
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50	1.9	1.5	< 0.50	< 0.50	0.60	< 0.50	< 0.50	0.60	
Cyanide (Total)		M	2300	mg/kg	0.50	1.4	2.3	< 0.50	< 0.50	0.70	< 0.50	< 0.50	0.80	
Arsenic		M	2455	mg/kg	0.5	47	54	9.8	6.8	7.5	11	13	12	
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Cadmium		M	2455	mg/kg	0.10	3.9	50	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chromium		M	2455	mg/kg	0.5	28	24	8.1	14	9.1	8.0	15	11	
Copper		M	2455	mg/kg	0.50	4.9	0.83	18	48	27	31	27	28	
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	0.08	0.16	0.13	0.14	0.13	0.13	
Nickel		M	2455	mg/kg	0.50	140	340	5.7	4.1	4.7	9.2	11	8.7	
Lead		M	2455	mg/kg	0.50	1.6	1.6	33	37	43	57	62	53	
Selenium		M	2455	mg/kg	0.25	0.57	1.8	0.34	< 0.25	< 0.25	0.29	0.47	0.47	
Vanadium		U	2455	mg/kg	0.5	30	21	11	11	12	16	18	19	
Zinc		M	2455	mg/kg	0.50	6.1	6.4	24	23	29	38	45	44	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Organic Matter		M	2625	%	0.40	47	6.0	5.7	7.6	13	12	7.1	5.5	
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	9.2	17	7.0	5.4	7.3	5.6	< 1.0	< 1.0	

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846242	1846243	1846244	1846245	1846246	1846247	1846248	1846249
Order No.: POR019404		Client Sample Ref.:				1	1	1	1	1	1	1	1
		Client Sample ID.:				SL01-0.1-1	SL02-0.1-1	SL03-0.1-1	SL04-0.1-1	SL05-0.1-1	SL06-0.1-1	SL07-0.1-1	SL08-0.1-1
		Sample Location:				SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):											
		Date Sampled:				26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:				9:38	9:39	9:40	9:41	9:42	9:42	9:43	9:44
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	86	17	14	14	17	13	< 1.0	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	500	79	13	13	21	11	< 1.0	< 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	1100	640	5.4	6.2	10	6.8	< 1.0	< 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	1700	760	39	38	56	36	< 10	< 10
Naphthalene		M	2800	mg/kg	0.10	0.29	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.51	0.58	< 0.10	0.24	< 0.10	0.21	0.23	0.19
Anthracene		M	2800	mg/kg	0.10	0.11	0.17	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.1	< 0.10	0.45	0.48	0.30	0.35	0.19
Pyrene		M	2800	mg/kg	0.10	0.97	0.89	< 0.10	0.43	0.48	0.29	0.32	0.21
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.59	0.64	< 0.10	< 0.10	0.25	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.58	0.47	< 0.10	< 0.10	0.37	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	3.5	< 0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.44	0.98	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.74	2.2	< 0.10	< 0.10	0.32	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.67	2.2	< 0.10	< 0.10	0.27	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.68	1.9	< 0.10	< 0.10	0.26	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.8	15	< 2.0	< 2.0	3.1	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	0.60	7.7	0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846250	1846251	1846252	1846253	1846254	1846255	1846256	1846257
Order No.: POR019404		Client Sample Ref.:					1	1	1	1	1	1	1	1
		Client Sample ID.:					SL09-0.1-1	SL10-0.1-1	SL11-0.1-1	SL12-0.1-1	SL13-0.1-1	SL14-0.1-1	SL15-0.1-1	SL16-0.1-1
		Sample Location:					SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):												0.40
		Date Sampled:					26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:					9:44	9:45	9:45	9:46	9:46	9:46	9:47	9:47
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	22	26	19	25	27	15	23	21	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and Glass	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Clay	Loam	Clay	Clay	Loam	Loam	Loam	Loam
pH at 20C		M	2010		4.0	7.4	8.0	8.1	8.0	7.9	7.8	7.7	7.7	7.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.60	0.50	< 0.40	0.47	0.55	0.53	0.59	< 0.40	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.80	0.70	0.50	0.50	0.80	0.70	0.70	0.70	0.60
Cyanide (Total)		M	2300	mg/kg	0.50	0.90	0.80	0.60	0.60	1.0	1.0	0.90	0.70	0.70
Arsenic		M	2455	mg/kg	0.5	13	14	10	5.2	15	13	11	11	11
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10	0.13	0.20	< 0.10	0.55	0.55
Chromium		M	2455	mg/kg	0.5	9.7	13	7.4	7.1	13	35	14	13	13
Copper		M	2455	mg/kg	0.50	29	68	20	22	36	42	36	300	300
Mercury		M	2455	mg/kg	0.05	0.22	0.16	0.09	0.08	0.20	0.18	0.27	0.14	0.14
Nickel		M	2455	mg/kg	0.50	8.7	10	7.2	5.5	7.0	9.5	8.4	11	11
Lead		M	2455	mg/kg	0.50	56	85	57	31	70	230	63	75	75
Selenium		M	2455	mg/kg	0.25	0.37	0.57	< 0.25	< 0.25	0.39	0.45	0.35	0.42	0.42
Vanadium		U	2455	mg/kg	0.5	17	23	12	8.2	13	16	15	16	16
Zinc		M	2455	mg/kg	0.50	42	65	22	27	45	66	45	110	110
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	8.1	8.8	3.3	6.2	9.3	4.7	5.5	6.6	6.6
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	6.4	6.9	4.5	8.6	5.8	5.3	6.2	6.5	6.5

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846250	1846251	1846252	1846253	1846254	1846255	1846256	1846257
Order No.: POR019404		Client Sample Ref.:				1	1	1	1	1	1	1	1
		Client Sample ID.:				SL09-0.1-1	SL10-0.1-1	SL11-0.1-1	SL12-0.1-1	SL13-0.1-1	SL14-0.1-1	SL15-0.1-1	SL16-0.1-1
		Sample Location:				SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):											0.40
		Date Sampled:				26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:				9:44	9:45	9:45	9:46	9:46	9:46	9:47	9:47
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	22	16	14	18	14	13	12	13
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	17	13	10	14	13	11	11	9.6
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	7.8	5.6	4.7	6.2	5.8	6.4	6.0	5.6
Total TPH >C5-C35		N	2670	mg/kg	10	53	41	34	46	39	36	35	35
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.20	0.35	< 0.10	0.16	0.29	0.20	0.38	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.27	0.62	< 0.10	0.29	0.50	0.43	0.50	0.21
Pyrene		M	2800	mg/kg	0.10	0.26	0.61	< 0.10	0.30	0.45	0.42	0.46	0.21
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.24	< 0.10	0.27	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.28	< 0.10	0.26	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.44	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.: 24-25015				
Quotation No.:		Chemtest Sample ID.: 1846258				
Order No.: POR019404		Client Sample Ref.: 1				
		Client Sample ID.: SL17-0.1-1				
		Sample Location: SL17				
		Sample Type: SOIL				
		Top Depth (m): 0.10				
		Bottom Depth (m): 0.40				
		Date Sampled: 26-Jul-2024				
		Time Sampled: 9:48				
		Asbestos Lab: DURHAM				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	21
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Loam
pH at 20C		M	2010		4.0	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.52
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.70
Cyanide (Total)		M	2300	mg/kg	0.50	0.90
Arsenic		M	2455	mg/kg	0.5	14
Beryllium		U	2455	mg/kg	0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.13
Chromium		M	2455	mg/kg	0.5	13
Copper		M	2455	mg/kg	0.50	32
Mercury		M	2455	mg/kg	0.05	0.19
Nickel		M	2455	mg/kg	0.50	8.3
Lead		M	2455	mg/kg	0.50	87
Selenium		M	2455	mg/kg	0.25	0.39
Vanadium		U	2455	mg/kg	0.5	17
Zinc		M	2455	mg/kg	0.50	59
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Organic Matter		M	2625	%	0.40	8.1
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	6.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015
Quotation No.:		Chemtest Sample ID.:				1846258
Order No.: POR019404		Client Sample Ref.:				1
		Client Sample ID.:				SL17-0.1-1
		Sample Location:				SL17
		Sample Type:				SOIL
		Top Depth (m):				0.10
		Bottom Depth (m):				0.40
		Date Sampled:				26-Jul-2024
		Time Sampled:				9:48
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	14
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	13
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	5.5
Total TPH >C5-C35		N	2670	mg/kg	10	38
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.70
Anthracene		M	2800	mg/kg	0.10	0.16
Fluoranthene		M	2800	mg/kg	0.10	1.1
Pyrene		M	2800	mg/kg	0.10	0.85
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.45
Chrysene		M	2800	mg/kg	0.10	0.44
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.68
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.24
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.48
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.1
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1846210	2	TP03-0.7-2	TP03	15-Jul-2024	B	Amber Glass 250ml
1846210	2	TP03-0.7-2	TP03	15-Jul-2024	B	Plastic Tub 500g
1846211	6	TP03-0.1-6	TP03	15-Jul-2024	B	Amber Glass 250ml
1846211	6	TP03-0.1-6	TP03	15-Jul-2024	B	Plastic Tub 500g
1846212	14	BH05-0.1-14	BH05	15-Jul-2024	B	Amber Glass 250ml
1846212	14	BH05-0.1-14	BH05	15-Jul-2024	B	Plastic Tub 500g
1846213	1	TP04-0.1-1	TP04	16-Jul-2024	B	Amber Glass 250ml
1846213	1	TP04-0.1-1	TP04	16-Jul-2024	B	Plastic Tub 500g
1846214	1	TP06-0.1-1	TP06	16-Jul-2024	B	Amber Glass 250ml
1846214	1	TP06-0.1-1	TP06	16-Jul-2024	B	Plastic Tub 500g
1846215	1	TP07-0.1-1	TP07	16-Jul-2024	B	Amber Glass 250ml
1846215	1	TP07-0.1-1	TP07	16-Jul-2024	B	Plastic Tub 500g
1846216	2	TP07-0.4-2	TP07	16-Jul-2024	B	Amber Glass 250ml
1846216	2	TP07-0.4-2	TP07	16-Jul-2024	B	Plastic Tub 500g
1846217	1	TP10-0.1-1	TP10	18-Jul-2024	B	Amber Glass 250ml
1846217	1	TP10-0.1-1	TP10	18-Jul-2024	B	Plastic Tub 500g
1846218	2	TP10-0.8-2	TP10	18-Jul-2024	B	Amber Glass 250ml
1846218	2	TP10-0.8-2	TP10	18-Jul-2024	B	Plastic Tub 500g
1846219	1	TP15-0.1-1	TP15	18-Jul-2024	B	Amber Glass 250ml
1846219	1	TP15-0.1-1	TP15	18-Jul-2024	B	Plastic Tub 500g
1846220	1	TP12-0.1-1	TP12	18-Jul-2024	B	Amber Glass 250ml
1846220	1	TP12-0.1-1	TP12	18-Jul-2024	B	Plastic Tub 500g

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1846221	1	TP09-0.1-1	TP09	18-Jul-2024	B	Amber Glass 250ml
1846221	1	TP09-0.1-1	TP09	18-Jul-2024	B	Plastic Tub 500g
1846222	2	TP09-1.0--2	TP09	18-Jul-2024	B	Amber Glass 250ml
1846222	2	TP09-1.0--2	TP09	18-Jul-2024	B	Plastic Tub 500g
1846223	1	TP14-0.1-1	TP14	18-Jul-2024	B	Amber Glass 250ml
1846223	1	TP14-0.1-1	TP14	18-Jul-2024	B	Plastic Tub 500g
1846224	2	TP11-0.6-2	TP11	18-Jul-2024	B	Amber Glass 250ml
1846224	2	TP11-0.6-2	TP11	18-Jul-2024	B	Plastic Tub 500g
1846225	3	TP08-0.9-3	TP08	18-Jul-2024	B	Amber Glass 250ml
1846225	3	TP08-0.9-3	TP08	18-Jul-2024	B	Plastic Tub 500g
1846226	1	TP16-0.1-1	TP16	18-Jul-2024	B	Amber Glass 250ml
1846226	1	TP16-0.1-1	TP16	18-Jul-2024	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
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.	
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-diphenylcarbazine.	
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	
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

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
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Amended Report

Report No.: 24-25015-2

Initial Date of Issue: 19-Aug-2024 **Date of Re-Issue:** 27-Aug-2024

Re-Issue Details: This report has been revised and directly supersedes 24-25015-1 in its entirety

Client: Soiltechnics Limited

Client Address: 1st Floor Unit 9 Westpoint Enterprise Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project: STV5936 Cowm Top

Quotation No.: **Date Received:** 05-Aug-2024

Order No.: POR019404 **Date Instructed:** 05-Aug-2024

No. of Samples: 49

Turnaround (Wkdays): 18 **Results Due:** 29-Aug-2024

Date Approved: 27-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846210	1846211	1846212	1846213	1846214	1846215	1846216	1846217
Order No.: POR019404		Client Sample Ref.:				2	6	14	1	1	1	2	1
		Client Sample ID.:				TP03-0.7-2	TP03-0.1-6	BH05-0.1-14	TP04-0.1-1	TP06-0.1-1	TP07-0.1-1	TP07-0.4-2	TP10-0.1-1
		Sample Location:				TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.70	0.10	0.10	0.10	0.10	0.10	0.40	0.10
		Bottom Depth (m):				1.30		0.45					
		Date Sampled:				15-Jul-2024	15-Jul-2024	15-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	18-Jul-2024
		Time Sampled:				15:53	15:54	16:19	10:30	11:30	12:42	12:43	8:43
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	19	12	15	22	15	25	13	24
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones, Roots and Wood	Roots	Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand
pH at 20C		M	2010		4.0	8.1	8.2	7.9	8.2	8.2	8.3	8.4	8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.64	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 0.50	[B] 0.50	[B] 0.80	[B] 1.2	[B] 1.0	[B] 0.60	[B] < 0.50	[B] 0.60
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 0.50	[B] 0.90	[B] 0.90	[B] 1.3	[B] 1.1	[B] 0.70	[B] < 0.50	[B] 0.60
Arsenic		M	2455	mg/kg	0.5	10	18	10	12	4.2	7.0	5.8	9.3
Beryllium		U	2455	mg/kg	0.5	< 0.5	3.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.21	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	14	56	7.9	9.2	14	23	16	28
Copper		M	2455	mg/kg	0.50	19	130	25	25	9.9	17	16	19
Mercury		M	2455	mg/kg	0.05	0.11	0.12	0.12	0.11	0.05	0.08	< 0.05	0.10
Nickel		M	2455	mg/kg	0.50	12	55	6.4	7.1	9.4	13	16	11
Lead		M	2455	mg/kg	0.50	36	120	38	62	19	35	14	46
Selenium		M	2455	mg/kg	0.25	0.26	0.50	0.37	0.45	< 0.25	0.63	< 0.25	0.37
Vanadium		U	2455	mg/kg	0.5	19	72	18	17	12	18	15	19
Zinc		M	2455	mg/kg	0.50	46	140	27	25	27	42	36	49
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	3.6	38	3.1	6.0	3.6	3.6	1.3	3.8
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846210	1846211	1846212	1846213	1846214	1846215	1846216	1846217	
Order No.: POR019404		Client Sample Ref.:	2	6	14	1	1	1	2	1	
		Client Sample ID.:	TP03-0.7-2	TP03-0.1-6	BH05-0.1-14	TP04-0.1-1	TP06-0.1-1	TP07-0.1-1	TP07-0.4-2	TP10-0.1-1	
		Sample Location:	TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.70	0.10	0.10	0.10	0.10	0.10	0.40	0.10	
		Bottom Depth (m):	1.30		0.45						
		Date Sampled:	15-Jul-2024	15-Jul-2024	15-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	18-Jul-2024	
		Time Sampled:	15:53	15:54	16:19	10:30	11:30	12:42	12:43	8:43	
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 4.3	[B] < 1.0	[B] 3.8
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 10	[B] < 1.0	[B] 9.6
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 8.9	[B] 7.9	[B] 11
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 9.7	[B] 7.2	[B] 7.3
Total TPH >C5-C35		N	2670	mg/kg	10	[B] < 10	[B] < 10	[B] < 10	[B] 33	[B] 15	[B] 31
Naphthalene		M	2800	mg/kg	0.10	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.46	< 0.10	< 0.10	0.49	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.57	< 0.10	< 0.10	0.52	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.9	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846218	1846219	1846220	1846221	1846222	1846223	1846225
Order No.: POR019404		Client Sample Ref.:					2	1	1	1	2	1	2
		Client Sample ID.:					TP10-0.8-2	TP15-0.1-1	TP12-0.1-1	TP09-0.1-1	TP09-1.0--2	TP14-0.1-1	TP11-0.6-2
		Sample Location:					TP10	TP15	TP12	TP09	TP09	TP14	TP11
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.80	0.10	0.10	0.10	1.00	0.10	0.60
		Bottom Depth (m):											
		Date Sampled:					18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024
		Time Sampled:					9:51	10:18	10:32	11:07	11:07	11:55	12:19
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	14	21	22	26	15	27	12	23
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	None	Roots	Roots	Roots	Stones	Roots	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Sand	Sand	Sand	Clay	Sand	Clay	Sand
pH at 20C		M	2010		4.0	8.7	8.8	8.6	8.7	8.6	8.4	8.5	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.68	0.45	0.73	< 0.40	1.4	< 0.40	0.45
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] < 0.50	[B] 0.80	[B] 0.80	[B] 0.70	[B] < 0.50	[B] 0.60	[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] 1.0	[B] 0.90	[B] 0.70	[B] < 0.50	[B] 0.70	[B] < 0.50	[B] 0.50
Arsenic		M	2455	mg/kg	0.5	5.4	11	15	4.4	5.0	4.4	14	12
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.7	< 0.5	< 0.5	0.6	< 0.5	0.7	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.52	0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10
Chromium		M	2455	mg/kg	0.5	15	19	15	13	19	14	76	17
Copper		M	2455	mg/kg	0.50	16	26	35	13	16	14	31	35
Mercury		M	2455	mg/kg	0.05	< 0.05	0.09	0.12	0.05	< 0.05	0.06	0.10	0.08
Nickel		M	2455	mg/kg	0.50	19	7.3	8.2	7.6	22	9.3	31	17
Lead		M	2455	mg/kg	0.50	16	71	57	24	9.9	29	51	46
Selenium		M	2455	mg/kg	0.25	0.62	2.4	0.55	0.31	0.39	0.36	0.98	0.55
Vanadium		U	2455	mg/kg	0.5	17	15	18	11	19	12	30	23
Zinc		M	2455	mg/kg	0.50	39	39	48	26	39	36	89	55
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	0.83	6.0	5.2	5.9	1.1	7.1	2.2	6.9
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846218	1846219	1846220	1846221	1846222	1846223	1846224	1846225		
Order No.: POR019404		Client Sample Ref.:	2	1	1	1	2	1	2	3		
		Client Sample ID.:	TP10-0.8-2	TP15-0.1-1	TP12-0.1-1	TP09-0.1-1	TP09-1.0--2	TP14-0.1-1	TP11-0.6-2	TP08-0.9-3		
		Sample Location:	TP10	TP15	TP12	TP09	TP09	TP14	TP11	TP08		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.80	0.10	0.10	0.10	1.00	0.10	0.60	0.90		
		Bottom Depth (m):										
		Date Sampled:	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024		
		Time Sampled:	9:51	10:18	10:32	11:07	11:07	11:55	12:19	12:33		
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] 3.8	[B] 4.4	[B] 4.4	[B] 4.8	[B] < 1.0	[B] 4.4	[B] < 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] 11	[B] 10	[B] 10	[B] 12	[B] < 1.0	[B] 11	[B] < 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] 9.6	[B] 7.8	[B] 8.4	[B] 8.8	[B] < 1.0	[B] 11	[B] < 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] 5.3	[B] 6.9	[B] 6.7	[B] 6.3	[B] < 1.0	[B] 7.2	[B] < 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	[B] 30	[B] 29	[B] 30	[B] 32	[B] < 10	[B] 34	[B] < 10
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.23	0.17	0.39	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.15	0.48	0.33	0.45	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.18	0.45	0.33	0.39	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846226	1846227	1846228	1846229	1846230	1846231	1846233
Order No.: POR019404		Client Sample Ref.:					1	1	4	1	1	1	1
		Client Sample ID.:					TP16-0.1-1	WS04-0.15-1	BH010.104	BH020.101	BH030.101	BH060.101	TP20-0.1-1
		Sample Location:					TP16	WS04	BH01	BH02	BH03	BH06	TP20
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.15	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.35		0.40		
		Date Sampled:					18-Jul-2024	23-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	25-Jul-2024
		Time Sampled:					15:29	14:50	0:00	0:00	0:00	0:00	12:36
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	19	27	21	22	19	20	30	26
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Roots	Roots	Roots	Roots	Roots	Roots	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0	8.5	8.7	8.6	8.7	8.8	8.9	8.9	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	0.56	0.49	0.41	0.63	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 0.60	1.1	0.50	0.70	0.80	0.70	0.80	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 0.70	1.3	0.60	0.80	1.4	0.80	1.1	< 0.50
Arsenic		M	2455	mg/kg	0.5	11	10	8.4	14	10	11	9.9	23
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	0.79
Chromium		M	2455	mg/kg	0.5	9.2	8.9	9.8	8.6	6.3	10	12	14
Copper		M	2455	mg/kg	0.50	24	30	13	72	56	23	54	190
Mercury		M	2455	mg/kg	0.05	0.11	0.10	0.05	0.21	0.17	0.11	0.14	0.06
Nickel		M	2455	mg/kg	0.50	6.7	10	7.5	8.0	5.7	7.6	7.5	44
Lead		M	2455	mg/kg	0.50	47	52	24	57	44	51	58	50
Selenium		M	2455	mg/kg	0.25	0.65	0.55	0.63	0.58	0.49	0.44	0.37	1.4
Vanadium		U	2455	mg/kg	0.5	14	17	16	18	14	16	19	55
Zinc		M	2455	mg/kg	0.50	24	35	27	36	25	28	53	160
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	5.0	11	6.7	4.8	9.7	7.9	10	26
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846226	1846227	1846228	1846229	1846230	1846231	1846232	1846233		
Order No.: POR019404		Client Sample Ref.:	1	1	4	1	1	1	1	1		
		Client Sample ID.:	TP16-0.1-1	WS04-0.15-1	BH010.104	BH020.101	BH030.101	BH060.101	TP20-0.1-1	TP19-0.1-1		
		Sample Location:	TP16	WS04	BH01	BH02	BH03	BH06	TP20	TP19		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.10	0.15	0.10	0.10	0.10	0.10	0.10	0.10		
		Bottom Depth (m):				0.35		0.40				
		Date Sampled:	18-Jul-2024	23-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	25-Jul-2024	25-Jul-2024		
		Time Sampled:	15:29	14:50	0:00	0:00	0:00	0:00	12:36	12:49		
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	12
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] 4.3	6.0	4.2	6.1	4.3	4.2	13
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] 9.5	11	10	11	11	9.6	22
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] 8.4	11	8.9	8.5	9.8	11	14
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] 6.6	8.1	6.0	5.6	8.3	7.0	6.1
Total TPH >C5-C35		N	2670	mg/kg	10	[B] 29	36	29	32	33	32	67
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	< 0.10	0.12	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.10	0.24	0.13	< 0.10	0.18	0.13	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.10	0.24	0.11	< 0.10	0.16	0.13	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846234	1846235	1846236	1846237	1846238	1846239	1846241
Order No.: POR019404		Client Sample Ref.:					2	1	1	1	1	1	1
		Client Sample ID.:					TP19-1.2-2	TP17-0.1-1	BH08-0.1-1	BH10-0.1-1	TP22-0.1-1	TP24-0.1-1	TP25-0.1-1
		Sample Location:					TP19	TP17	BH08	BH10	TP22	TP24	TP25
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					1.20	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.40	0.40			0.40
		Date Sampled:					25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:					12:49	13:05	13:12	13:25	14:47	15:01	15:11
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	52	43	19	19	12	24	17	23
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay	Loam	Clay	Loam	Loam
pH at 20C		M	2010		4.0	8.4	7.6	8.3	7.5	8.0	7.9	7.8	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.56	< 0.40	< 0.40	0.96	< 0.40	0.56
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.60	0.70	0.90	< 0.50	< 0.50	0.60	< 0.50	0.60
Cyanide (Total)		M	2300	mg/kg	0.50	0.70	0.70	1.1	< 0.50	< 0.50	0.60	< 0.50	0.60
Arsenic		M	2455	mg/kg	0.5	1.6	9.1	19	5.9	9.0	8.1	5.9	22
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.6	0.6	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.30	0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	0.22
Chromium		M	2455	mg/kg	0.5	6.6	13	22	19	10	10	7.4	27
Copper		M	2455	mg/kg	0.50	6.6	35	41	18	21	23	24	67
Mercury		M	2455	mg/kg	0.05	0.07	0.38	0.53	< 0.05	0.06	0.10	0.05	0.49
Nickel		M	2455	mg/kg	0.50	6.2	19	17	22	11	10	7.8	13
Lead		M	2455	mg/kg	0.50	8.0	520	100	18	38	58	20	95
Selenium		M	2455	mg/kg	0.25	0.48	0.62	0.99	0.39	0.29	0.35	< 0.25	0.88
Vanadium		U	2455	mg/kg	0.5	8.6	15	26	18	16	14	12	26
Zinc		M	2455	mg/kg	0.50	24	56	84	47	47	30	31	80
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	21	12	5.3	2.9	2.9	26	4.5	5.7
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846234	1846235	1846236	1846237	1846238	1846239	1846240	1846241	
Order No.: POR019404		Client Sample Ref.:	2	1	1	1	1	1	1	1	
		Client Sample ID.:	TP19-1.2-2	TP17-0.1-1	BH08-0.1-1	BH10-0.1-1	TP22-0.1-1	TP24-0.1-1	TP25-0.1-1	BH11-0.1-1	
		Sample Location:	TP19	TP17	BH08	BH10	TP22	TP24	TP25	BH11	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	1.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
		Bottom Depth (m):			0.40	0.40				0.40	
		Date Sampled:	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	
		Time Sampled:	12:49	13:05	13:12	13:25	14:47	15:01	15:04	15:11	
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	6.2	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	10	< 1.0	< 1.0	< 1.0	< 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	< 10	48	< 10	< 10	< 10	< 10
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.45	< 0.10	< 0.10	0.18
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.22	0.43	< 0.10	0.22	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.20	0.40	< 0.10	0.20	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846242	1846243	1846244	1846245	1846246	1846247	1846248	1846249
Order No.: POR019404		Client Sample Ref.:					1	1	1	1	1	1	1	1
		Client Sample ID.:					SL01-0.1-1	SL02-0.1-1	SL03-0.1-1	SL04-0.1-1	SL05-0.1-1	SL06-0.1-1	SL07-0.1-1	SL08-0.1-1
		Sample Location:					SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):												
		Date Sampled:					26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:					9:38	9:39	9:40	9:41	9:42	9:42	9:43	9:44
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
ACM Type		U	2192		N/A	Fibres/Clumps	Fibres/Clumps, Paper Product/ Bitumen	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	Chrysotile	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001		0.008	1.8						
Total Asbestos		U	2192	%	0.001		0.008	1.8						
Moisture		N	2030	%	0.020	18	10	26	19	28	14	22	16	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots, Glass and	Roots, Stones and	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Loam	Clay	Loam	Clay	Loam	Loam	Loam	Loam
pH at 20C		M	2010		4.0	7.7	7.7	7.6	7.5	7.7	7.6	7.2	7.5	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.56	0.54	< 0.40	0.54	0.59	0.42	
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50	1.9	1.5	< 0.50	< 0.50	0.60	< 0.50	< 0.50	0.60	
Cyanide (Total)		M	2300	mg/kg	0.50	1.4	2.3	< 0.50	< 0.50	0.70	< 0.50	< 0.50	0.80	
Arsenic		M	2455	mg/kg	0.5	47	54	9.8	6.8	7.5	11	13	12	
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Cadmium		M	2455	mg/kg	0.10	3.9	50	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chromium		M	2455	mg/kg	0.5	28	24	8.1	14	9.1	8.0	15	11	
Copper		M	2455	mg/kg	0.50	4.9	0.83	18	48	27	31	27	28	
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	0.08	0.16	0.13	0.14	0.13	0.13	
Nickel		M	2455	mg/kg	0.50	140	340	5.7	4.1	4.7	9.2	11	8.7	
Lead		M	2455	mg/kg	0.50	1.6	1.6	33	37	43	57	62	53	
Selenium		M	2455	mg/kg	0.25	0.57	1.8	0.34	< 0.25	< 0.25	0.29	0.47	0.47	
Vanadium		U	2455	mg/kg	0.5	30	21	11	11	12	16	18	19	
Zinc		M	2455	mg/kg	0.50	6.1	6.4	24	23	29	38	45	44	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Organic Matter		M	2625	%	0.40	47	6.0	5.7	7.6	13	12	7.1	5.5	
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846242	1846243	1846244	1846245	1846246	1846247	1846248	1846249	
Order No.: POR019404		Client Sample Ref.:	1	1	1	1	1	1	1	1	
		Client Sample ID.:	SL01-0.1-1	SL02-0.1-1	SL03-0.1-1	SL04-0.1-1	SL05-0.1-1	SL06-0.1-1	SL07-0.1-1	SL08-0.1-1	
		Sample Location:	SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
		Bottom Depth (m):									
		Date Sampled:	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	
		Time Sampled:	9:38	9:39	9:40	9:41	9:42	9:42	9:43	9:44	
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	4.1	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	9.2	17	7.0	5.4	7.3	< 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	86	17	14	14	17	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	500	79	13	13	21	< 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	1100	640	5.4	6.2	10	< 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	1700	760	39	38	56	< 10
Naphthalene		M	2800	mg/kg	0.10	0.29	0.21	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.51	0.58	< 0.10	0.24	< 0.10	0.21
Anthracene		M	2800	mg/kg	0.10	0.11	0.17	< 0.10	< 0.10	< 0.10	0.23
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.1	< 0.10	0.45	0.48	0.30
Pyrene		M	2800	mg/kg	0.10	0.97	0.89	< 0.10	0.43	0.48	0.32
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.59	0.64	< 0.10	< 0.10	0.25	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.58	0.47	< 0.10	< 0.10	0.37	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	3.5	< 0.10	< 0.10	0.48	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.44	0.98	< 0.10	< 0.10	0.15	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.74	2.2	< 0.10	< 0.10	0.32	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.67	2.2	< 0.10	< 0.10	0.27	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.68	1.9	< 0.10	< 0.10	0.26	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.8	15	< 2.0	< 2.0	3.1	< 2.0
Total Phenols		M	2920	mg/kg	0.10	0.60	7.7	< 0.10	< 0.10	0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846250	1846251	1846252	1846253	1846254	1846255	1846256	1846257
Order No.: POR019404		Client Sample Ref.:				1	1	1	1	1	1	1	1
		Client Sample ID.:				SL09-0.1-1	SL10-0.1-1	SL11-0.1-1	SL12-0.1-1	SL13-0.1-1	SL14-0.1-1	SL15-0.1-1	SL16-0.1-1
		Sample Location:				SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):											0.40
		Date Sampled:				26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:				9:44	9:45	9:45	9:46	9:46	9:46	9:47	9:47
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	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	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	22	26	19	25	27	15	23	21
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and Glass	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Clay	Loam	Clay	Clay	Loam	Loam	Loam
pH at 20C		M	2010		4.0	7.4	8.0	8.1	8.0	7.9	7.8	7.7	7.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.60	0.50	< 0.40	0.47	0.55	0.53	0.59	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.80	0.70	0.50	0.50	0.80	0.70	0.70	0.60
Cyanide (Total)		M	2300	mg/kg	0.50	0.90	0.80	0.60	0.60	1.0	1.0	0.90	0.70
Arsenic		M	2455	mg/kg	0.5	13	14	10	5.2	15	13	11	11
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10	0.13	0.20	< 0.10	0.55
Chromium		M	2455	mg/kg	0.5	9.7	13	7.4	7.1	13	35	14	13
Copper		M	2455	mg/kg	0.50	29	68	20	22	36	42	36	300
Mercury		M	2455	mg/kg	0.05	0.22	0.16	0.09	0.08	0.20	0.18	0.27	0.14
Nickel		M	2455	mg/kg	0.50	8.7	10	7.2	5.5	7.0	9.5	8.4	11
Lead		M	2455	mg/kg	0.50	56	85	57	31	70	230	63	75
Selenium		M	2455	mg/kg	0.25	0.37	0.57	< 0.25	< 0.25	0.39	0.45	0.35	0.42
Vanadium		U	2455	mg/kg	0.5	17	23	12	8.2	13	16	15	16
Zinc		M	2455	mg/kg	0.50	42	65	22	27	45	66	45	110
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	8.1	8.8	3.3	6.2	9.3	4.7	5.5	6.6
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846250	1846251	1846252	1846253	1846254	1846255	1846256	1846257
Order No.: POR019404		Client Sample Ref.:	1	1	1	1	1	1	1	1
		Client Sample ID.:	SL09-0.1-1	SL10-0.1-1	SL11-0.1-1	SL12-0.1-1	SL13-0.1-1	SL14-0.1-1	SL15-0.1-1	SL16-0.1-1
		Sample Location:	SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):								0.40
		Date Sampled:	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:	9:44	9:45	9:45	9:46	9:46	9:46	9:47	9:47
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	6.4	6.9	4.5	8.6	5.8
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	22	16	14	18	14
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	17	13	10	14	13
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	7.8	5.6	4.7	6.2	5.8
Total TPH >C5-C35		N	2670	mg/kg	10	53	41	34	46	39
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.20	0.35	< 0.10	0.16	0.29
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.27	0.62	< 0.10	0.29	0.50
Pyrene		M	2800	mg/kg	0.10	0.26	0.61	< 0.10	0.30	0.45
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.24
Chrysene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.28
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.44	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.8	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015
Quotation No.:		Chemtest Sample ID.:				1846258
Order No.: POR019404		Client Sample Ref.:				1
		Client Sample ID.:				SL17-0.1-1
		Sample Location:				SL17
		Sample Type:				SOIL
		Top Depth (m):				0.10
		Bottom Depth (m):				0.40
		Date Sampled:				26-Jul-2024
		Time Sampled:				9:48
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	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	21
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Loam
pH at 20C		M	2010		4.0	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.52
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.70
Cyanide (Total)		M	2300	mg/kg	0.50	0.90
Arsenic		M	2455	mg/kg	0.5	14
Beryllium		U	2455	mg/kg	0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.13
Chromium		M	2455	mg/kg	0.5	13
Copper		M	2455	mg/kg	0.50	32
Mercury		M	2455	mg/kg	0.05	0.19
Nickel		M	2455	mg/kg	0.50	8.3
Lead		M	2455	mg/kg	0.50	87
Selenium		M	2455	mg/kg	0.25	0.39
Vanadium		U	2455	mg/kg	0.5	17
Zinc		M	2455	mg/kg	0.50	59
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Organic Matter		M	2625	%	0.40	8.1
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015
Quotation No.:		Chemtest Sample ID.:				1846258
Order No.: POR019404		Client Sample Ref.:				1
		Client Sample ID.:				SL17-0.1-1
		Sample Location:				SL17
		Sample Type:				SOIL
		Top Depth (m):				0.10
		Bottom Depth (m):				0.40
		Date Sampled:				26-Jul-2024
		Time Sampled:				9:48
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	6.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	14
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	13
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	5.5
Total TPH >C5-C35		N	2670	mg/kg	10	38
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.70
Anthracene		M	2800	mg/kg	0.10	0.16
Fluoranthene		M	2800	mg/kg	0.10	1.1
Pyrene		M	2800	mg/kg	0.10	0.85
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.45
Chrysene		M	2800	mg/kg	0.10	0.44
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.68
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.24
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.48
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.1
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1846210	2	TP03-0.7-2	TP03	15-Jul-2024	B	Amber Glass 250ml
1846210	2	TP03-0.7-2	TP03	15-Jul-2024	B	Plastic Tub 500g
1846211	6	TP03-0.1-6	TP03	15-Jul-2024	B	Amber Glass 250ml
1846211	6	TP03-0.1-6	TP03	15-Jul-2024	B	Plastic Tub 500g
1846212	14	BH05-0.1-14	BH05	15-Jul-2024	B	Amber Glass 250ml
1846212	14	BH05-0.1-14	BH05	15-Jul-2024	B	Plastic Tub 500g
1846213	1	TP04-0.1-1	TP04	16-Jul-2024	B	Amber Glass 250ml
1846213	1	TP04-0.1-1	TP04	16-Jul-2024	B	Plastic Tub 500g
1846214	1	TP06-0.1-1	TP06	16-Jul-2024	B	Amber Glass 250ml
1846214	1	TP06-0.1-1	TP06	16-Jul-2024	B	Plastic Tub 500g
1846215	1	TP07-0.1-1	TP07	16-Jul-2024	B	Amber Glass 250ml
1846215	1	TP07-0.1-1	TP07	16-Jul-2024	B	Plastic Tub 500g
1846216	2	TP07-0.4-2	TP07	16-Jul-2024	B	Amber Glass 250ml
1846216	2	TP07-0.4-2	TP07	16-Jul-2024	B	Plastic Tub 500g
1846217	1	TP10-0.1-1	TP10	18-Jul-2024	B	Amber Glass 250ml
1846217	1	TP10-0.1-1	TP10	18-Jul-2024	B	Plastic Tub 500g
1846218	2	TP10-0.8-2	TP10	18-Jul-2024	B	Amber Glass 250ml
1846218	2	TP10-0.8-2	TP10	18-Jul-2024	B	Plastic Tub 500g
1846219	1	TP15-0.1-1	TP15	18-Jul-2024	B	Amber Glass 250ml
1846219	1	TP15-0.1-1	TP15	18-Jul-2024	B	Plastic Tub 500g
1846220	1	TP12-0.1-1	TP12	18-Jul-2024	B	Amber Glass 250ml
1846220	1	TP12-0.1-1	TP12	18-Jul-2024	B	Plastic Tub 500g

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1846221	1	TP09-0.1-1	TP09	18-Jul-2024	B	Amber Glass 250ml
1846221	1	TP09-0.1-1	TP09	18-Jul-2024	B	Plastic Tub 500g
1846222	2	TP09-1.0--2	TP09	18-Jul-2024	B	Amber Glass 250ml
1846222	2	TP09-1.0--2	TP09	18-Jul-2024	B	Plastic Tub 500g
1846223	1	TP14-0.1-1	TP14	18-Jul-2024	B	Amber Glass 250ml
1846223	1	TP14-0.1-1	TP14	18-Jul-2024	B	Plastic Tub 500g
1846224	2	TP11-0.6-2	TP11	18-Jul-2024	B	Amber Glass 250ml
1846224	2	TP11-0.6-2	TP11	18-Jul-2024	B	Plastic Tub 500g
1846225	3	TP08-0.9-3	TP08	18-Jul-2024	B	Amber Glass 250ml
1846225	3	TP08-0.9-3	TP08	18-Jul-2024	B	Plastic Tub 500g
1846226	1	TP16-0.1-1	TP16	18-Jul-2024	B	Amber Glass 250ml
1846226	1	TP16-0.1-1	TP16	18-Jul-2024	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
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.	
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-diphenylcarbazine.	
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	
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

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
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-25441-1

Initial Date of Issue: 15-Aug-2024

Re-Issue Details:

Client Soiltechnics Limited

Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV5936 Cowm Top

Quotation No.: **Date Received:** 09-Aug-2024

Order No.: POR019404 **Date Instructed:** 09-Aug-2024

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 15-Aug-2024

Date Approved: 15-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25441
Quotation No.:		Chemtest Sample ID.:				1848327
Order No.: POR019404		Client Sample Ref.:				2
		Client Sample ID.:				BH04-0.1-2
		Sample Location:				BH04
		Sample Type:				SOIL
		Top Depth (m):				0.10
		Date Sampled:				25-Jul-2024
		Time Sampled:				15:19
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	19
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Loam
pH at 20C		M	2010		4.0	8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 10
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 10
Arsenic		M	2455	mg/kg	0.5	15
Beryllium		U	2455	mg/kg	0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	20
Copper		M	2455	mg/kg	0.50	81
Mercury		M	2455	mg/kg	0.05	0.15
Nickel		M	2455	mg/kg	0.50	12
Lead		M	2455	mg/kg	0.50	150
Selenium		M	2455	mg/kg	0.25	0.68
Vanadium		U	2455	mg/kg	0.5	21
Zinc		M	2455	mg/kg	0.50	41
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Organic Matter		M	2625	%	0.40	5.9
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	[B] < 10
Naphthalene		M	2800	mg/kg	0.10	0.80

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25441			
Quotation No.:		Chemtest Sample ID.:	1848327			
Order No.: POR019404		Client Sample Ref.:	2			
		Client Sample ID.:	BH04-0.1-2			
		Sample Location:	BH04			
		Sample Type:	SOIL			
		Top Depth (m):	0.10			
		Date Sampled:	25-Jul-2024			
		Time Sampled:	15:19			
		Asbestos Lab:	DURHAM			
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.32
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.47
Pyrene		M	2800	mg/kg	0.10	0.46
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.1
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1848327	2	BH04-0.1-2	BH04	25-Jul-2024	B	Amber Glass 250ml
1848327	2	BH04-0.1-2	BH04	25-Jul-2024	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
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.	
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-diphenylcarbazine.	
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	
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

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
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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