

Report No	Date
22131/R1	September 2022
Project	NPT HOSPITAL – WAC TESTING
Client	TRJ

**Spectrum Geo Services
Foxglove Cottage,
Cwm Risca Lane,
Tondy,
BRIDGEND
CF32 0EH**

Report No:	Date:
22131/R1	September 2022

Project:
NPT HOSPITAL – WAC TESTING

Issue Number	Status	Description of Amendments
1	Draft	

Report prepared by:	
Signed 	September 2022

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1.0 INTRODUCTION

1.1 Introduction

Spectrum Geo Services (SGS) were requested by TRJ to undertake soil testing at a site at NPT Hospital, Aberafon.

1.2 Scope of Works

The objectives of this assessment are:

- Attend a sample collection exercise
- Soil Haz Suite and Waste Acceptance Criteria (WAC)
- Factual report on such

1.3 Development Proposals

It is assumed that the intention is to develop the site for commercial purposes.

1.4 Limitations

Subsoils are inherently variable and by their very nature are hidden from view such that no investigation can be exhaustive to the extent that all soil conditions are revealed. Conditions may therefore be present beneath the site that were not apparent from the data available for review.

No Phase 1 has been requested. Unless specifically noted to the contrary, it should be assumed that this report has not been submitted to any regulatory authorities for approval. Redevelopment sites may have planning conditions attached in respect of contaminated land assessment. Where we are made aware of such conditions in advance of scoping the works, we can tailor the report to the regulatory authority requirements. Where we are not made aware of any such requirements there can be no certainty that our investigation will meet any or all the regulatory authority requirements.

3.0 SITE OPERATIONS

3.1 Site Works

Site works were undertaken on 25 August 2022 and comprised 1 Trial Pits and sampling of a spoil heap. Conditions during the fieldwork were dry and sunny. The positions are shown on Drawing SGS/22131/02.

The work was undertaken in accordance with BS5930.

Samples were recovered of strata encountered, to allow laboratory testing to be undertaken.

4.0 LABORATORY TESTING

4.1 Introduction

On completion of site operations, selected soil samples were scheduled for laboratory testing. The following laboratory testing was undertaken and is Appended. Note that some of the testing includes data from another scheme on the same site. As such it is irrelevant to this report.

- General Soil Contamination Haz Suite
- WAC E Single Stage

The results are presented within Appendix B, together with an assessment relating to current guidelines.

A basic assessment has been undertaken of the determinand concentrations and is presented in the appendices. Relative to current Commercial Guidelines, there do not appear to be any contaminants exceeding guidelines.

The WAC testing noted only a slightly elevated TOC at TP01 Sample A, which is due to the it being topsoil with organic matter.

APPENDIX A
Exploratory Hole Logs

Trial Pits

TP01

APPENDIX B

Laboratory Testing

Results

Contamination Assessment

APPENDIX C

Photographic Plates

TP01 and Spoil Heap C

APPENDIX D

Drawings

Exploratory Hole Locations

SGS/22131/02



Trial Pit Log

Project Name: NPT Hospital		Client: TRJ		Date: 25/08/2022	
Location: Aberavon		Contractor:			
Project No. : 22131		Crew Name: RHG		Equipment:	
Location Number TP01	Location Type TP	Level	Logged By RHG	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.30	ES					TOPSOIL. Brown friable silty gravelly CLAY.	
		0.30 - 0.50	ES		0.30			MADE GROUND. (Medium dense) grey fine to coarse angular GRAVEL of vesicular slag.	
					0.50			MADE GROUND. Firm to stiff brown sandy gravelly CLAY with construction materials.	
					0.90			MADE GROUND. (Dense) grey fine to coarse angular GRAVEL of fused vesicular slag.	1
					0.95			End of Borehole at 0.950m	
									2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
2.00	1.80	Stable					

Remarks Already dug by TRJ						
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FINAL ANALYTICAL TEST REPORT

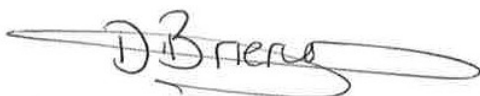
Envirolab Job Number: 22/08409
Issue Number: 1

Date: 06 September, 2022

Client: Spectrum Geo Services
Foxglove Cottage
Cwm Risca Lane
Tondur
Wales
CF32 0EH

Project Manager: Rob Griffiths
Project Name: NPT Hospital
Project Ref: 22131
Order No: 22131/01
Date Samples Received: 30/08/22
Date Instructions Received: 30/08/22
Date Analysis Completed: 06/09/22

Approved by:



Danielle Brierley
Deputy Client Services Supervisor

Envirolab Job Number: 22/08409

Client Project Name: NPT Hospital

Client Project Ref: 22131

Lab Sample ID	22/08409/1	22/08409/2	22/08409/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	A	B	C							
Depth to Top										
Depth To Bottom										
Date Sampled	25-Aug-22	25-Aug-22	25-Aug-22							
Sample Type	Soil - ES	Soil - ES	Soil - ES							
Sample Matrix Code	4AE	4A	4A							
% Moisture at <40C _A	9.0	5.9	6.0					% w/w	0.1	A-T-044
% Stones >10mm _A	<0.1	<0.1	<0.1					% w/w	0.1	A-T-044
pH _D ^{M#}	8.51	9.34	9.37					pH	0.01	A-T-031s
Arsenic _D ^{M#}	8	<1	1					mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5					mg/kg	0.5	A-T-024s
Copper _D ^{M#}	57	24	31					mg/kg	1	A-T-024s
Chromium _D ^{M#}	17	13	21					mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1					mg/kg	1	A-T-040s
Lead _D ^{M#}	100	46	70					mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17					mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	9	6	6					mg/kg	1	A-T-024s
Selenium _D ^{M#}	2	2	1					mg/kg	1	A-T-024s
Zinc _D ^{M#}	181	93	295					mg/kg	5	A-T-024s

Envirolab Job Number: 22/08409

Client Project Name: NPT Hospital

Client Project Ref: 22131

Lab Sample ID	22/08409/1	22/08409/2	22/08409/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	A	B	C							
Depth to Top										
Depth To Bottom										
Date Sampled	25-Aug-22	25-Aug-22	25-Aug-22							
Sample Type	Soil - ES	Soil - ES	Soil - ES							
Sample Matrix Code	4AE	4A	4A							
Asbestos in Soil (inc. matrix)										
Asbestos in soil ^o	NAD	NAD	NAD							A-T-045
Asbestos Matrix (visual) ^o	-	-	-							A-T-045
Asbestos Matrix (microscope) ^o	-	-	-							A-T-045
Asbestos ACM - Suitable for Water Absorption Test? ^o	N/A	N/A	N/A							A-T-045

Envirolab Job Number: 22/08409

Client Project Name: NPT Hospital

Client Project Ref: 22131

Lab Sample ID	22/08409/1	22/08409/2	22/08409/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	A	B	C							
Depth to Top										
Depth To Bottom										
Date Sampled	25-Aug-22	25-Aug-22	25-Aug-22							
Sample Type	Soil - ES	Soil - ES	Soil - ES							
Sample Matrix Code	4AE	4A	4A							
PAH-16MS										
Acenaphthene _A ^{MS}	0.08	0.05	0.03					mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{MS}	0.02	0.03	0.01					mg/kg	0.01	A-T-019s
Anthracene _A ^{MS}	0.11	0.37	0.05					mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{MS}	0.75	0.57	0.35					mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{MS}	0.71	0.63	0.36					mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{MS}	0.96	0.81	0.46					mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{MS}	0.34	0.33	0.19					mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{MS}	0.35	0.29	0.15					mg/kg	0.07	A-T-019s
Chrysene _A ^{MS}	0.84	0.71	0.44					mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{MS}	0.15	0.17	0.07					mg/kg	0.04	A-T-019s
Fluoranthene _A ^{MS}	1.20	1.05	0.57					mg/kg	0.08	A-T-019s
Fluorene _A ^{MS}	0.07	0.11	0.03					mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{MS}	0.49	0.45	0.26					mg/kg	0.03	A-T-019s
Naphthalene _A ^{MS}	<0.03	0.04	<0.03					mg/kg	0.03	A-T-019s
Phenanthrene _A ^{MS}	0.49	0.55	0.24					mg/kg	0.03	A-T-019s
Pyrene _A ^{MS}	0.91	0.80	0.45					mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{MS}	7.47	6.96	3.66					mg/kg	0.01	A-T-019s
TPH Total with ID + GC Trace										
TPH total (>C6-C40) _A ^{MS}	65	197	101					mg/kg	10	A-T-007s
TPH FID Chromatogram _A	Appended	Appended	Appended							A-T-007s
TPH ID Interpretation _A	C12-C44 hydrocarbons with some PAHs and humic substances	C10-C44 with some PAHs and other unknown hydrocarbons	C12-C44 hydrocarbons with some PAHs and humic substances							A-T-007s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.
 The results reported herein relate only to the material supplied to the laboratory.
 The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
 Analytical results reflect the quality of the sample at the time of analysis only.
 Opinions and interpretations expressed are outside the scope of our accreditation.
 If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
 A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
 The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).
 For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as "% stones >10mm".
 For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
 All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
 Stones etc. are not removed from the sample prior to analysis.
 Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.
 Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,
 E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.
 US indicates Unsuitable Sample for analysis.
 NDP indicates No Determination Possible.
 NAD indicates No Asbestos Detected.
 N/A indicates Not Applicable.
 Superscript # indicates method accredited to ISO 17025.
 Superscript "M" indicates method accredited to MCERTS.
 Subscript "A" indicates analysis performed on the sample as received.
 Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve
 Subscript "A" indicates analysis has dependant options against results. Testing dependant on results appear in the comments area of your sample receipt.
 EPH CWG results have humics mathematically subtracted through instrument calculation
 TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

v2

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@enlab.co.uk

Client: Spectrum Geo Services, Foxglove Cottage, Cwm Risca Lane, Tondy, Wales,
CF32 0EH

Project: NPT Hospital
Clients Project No: 22131

Project No: 22/08409
Date Received: 30/08/2022 (am)
Cool Box Temperatures (°C): 15.4

NO DEVIATIONS IDENTIFIED with respect to sampling dates or containers received.

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples $5 \pm 3^{\circ}\text{C}$), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

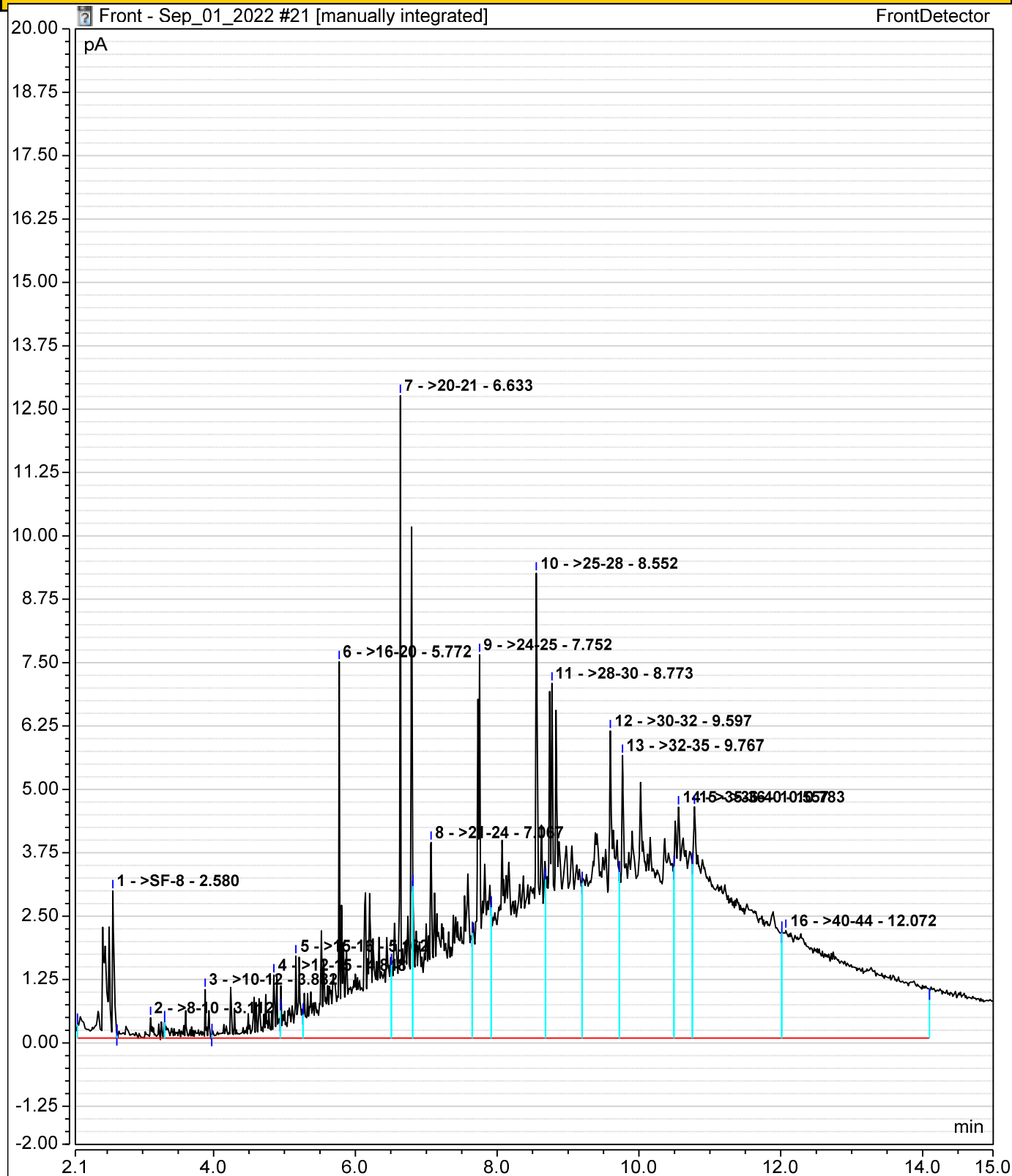
Envirolab Analysis Dates

Lab Sample ID	22/08409/1	22/08409/2	22/08409/3
Client Sample No			
Client Sample ID/Depth	A	B	C
Date Sampled	25/08/22	25/08/22	25/08/22
A-T-004s	06/09/2022	06/09/2022	06/09/2022
A-T-007s	02/09/2022	02/09/2022	02/09/2022
A-T-019s	06/09/2022	06/09/2022	06/09/2022
A-T-022s	02/09/2022	02/09/2022	02/09/2022
A-T-024s	06/09/2022	06/09/2022	06/09/2022
A-T-025w	06/09/2022	06/09/2022	06/09/2022
A-T-026w	06/09/2022	06/09/2022	06/09/2022
A-T-030s	05/09/2022	05/09/2022	05/09/2022
A-T-031s	06/09/2022	06/09/2022	06/09/2022
A-T-031w	06/09/2022	06/09/2022	06/09/2022
A-T-032s	05/09/2022	05/09/2022	05/09/2022
A-T-032w	06/09/2022	06/09/2022	06/09/2022
A-T-037w	06/09/2022	06/09/2022	06/09/2022
A-T-040s	05/09/2022	05/09/2022	05/09/2022
A-T-044	06/09/2022	06/09/2022	06/09/2022
A-T-045	01/09/2022	01/09/2022	01/09/2022
A-T-050w	06/09/2022	06/09/2022	06/09/2022
A-T-ANCs	06/09/2022	06/09/2022	06/09/2022
Calc-no stones	06/09/2022	06/09/2022	06/09/2022
Probe (w)	06/09/2022	06/09/2022	06/09/2022

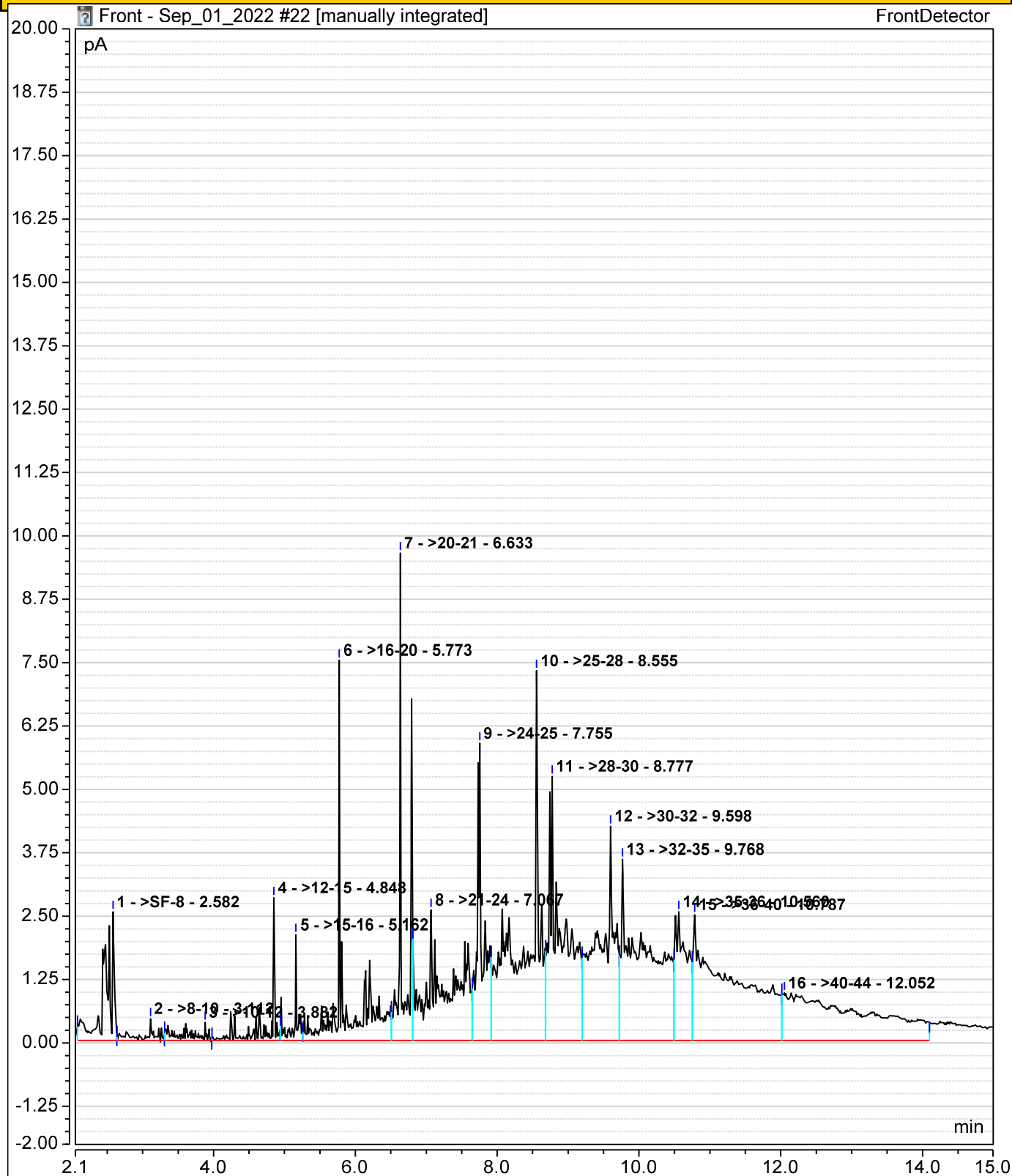
The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

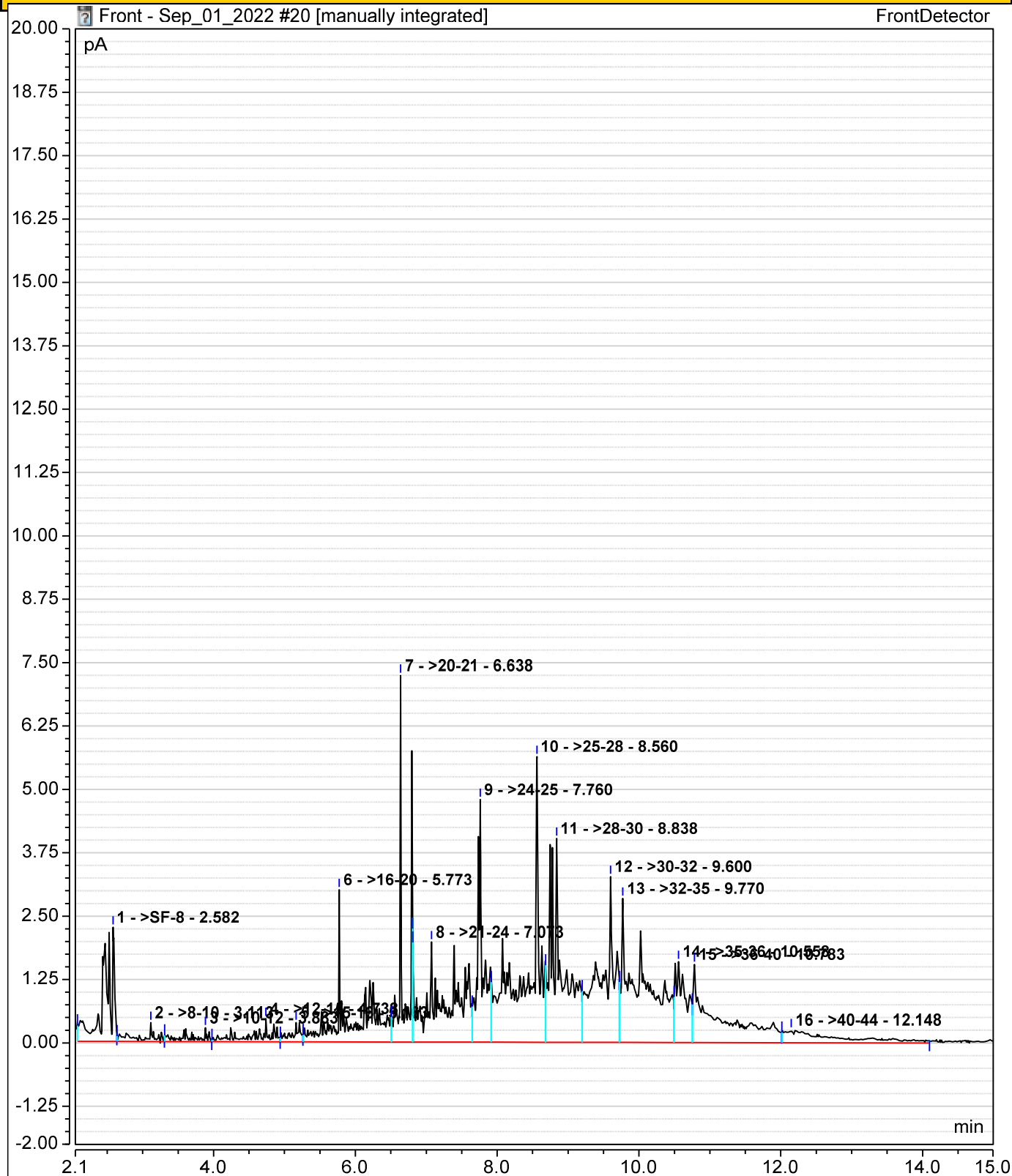
Chromatogram



Chromatogram



Chromatogram



Final Test Report

Envirolab Job Number: 22/08409
Issue Number: 1
Date: 6-Sep-22

Client: Spectrum Geo Services
Foxglove Cottage
Cwm Risca Lane
Tondur
Wales
CF32 0EH

Project Manager: Rob Griffiths
Project Name: NPT Hospital
Project Ref: 22131
Order No: 22131/01

Date Samples Received: 30-Aug-22
Date Instructions Received: 30-Aug-22
Date Analysis Completed: 6-Sep-22

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in *italic font* they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Richard Wong
Client Manager

Sample Details					Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/08409/1			
Client Sample Number					Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				A			
Depth to Top							
Depth to Bottom							
Date Sampled				25/08/2022			
Sample Type				Soil - ES			
Sample Matrix Code				4AE			
Solid Waste Analysis							
pH (pH Units) _D	A-T-031	N	N	8.51	-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.39	-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.07	-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	4.9	-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	3.6	3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	7.55	100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	<10	500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007	1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01	6	-	-
Eluate Analysis				10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)	
Arsenic	A-T-025	N	N	0.005	0.050	0.5	25
Barium	A-T-025	N	N	0.105	1.050	20	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	5
Chromium	A-T-025	N	N	<0.001	<0.01	0.5	70
Copper	A-T-025	N	N	0.041	0.410	2	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	2
Molybdenum	A-T-025	N	N	<0.001	<0.01	0.5	30
Nickel	A-T-025	N	N	<0.002	<0.02	0.4	40
Lead	A-T-025	N	N	0.049	0.490	0.5	50
Antimony	A-T-025	N	N	0.001	0.010	0.06	5
Selenium	A-T-025	N	N	0.001	0.010	0.1	7
Zinc	A-T-025	N	N	0.043	0.430	4	200
Chloride	A-T-026	N	N	3	30	800	25000
Fluoride	A-T-026	N	N	0.6	6.0	10	500
Sulphate as SO ₄	A-T-026	N	N	16	157	1000	50000
Total Dissolved Solids	A-T-035	N	N	61	610	4000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	<200	500	1000
Leach Test Information							
pH (pH Units)	A-T-031	N	N	7.8			
Conductivity (µS/cm)	A-T-037	N	N	122			
Mass Sample (kg)				0.192			
Dry Matter (%)	A-T-044	N	N	91			
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation							

Sample Details					Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	22/08409/2				
Client Sample Number					Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				B				
Depth to Top								
Depth to Bottom								
Date Sampled				25/08/2022				
Sample Type				Soil - ES				
Sample Matrix Code				4A				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	9.34	-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.81	-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.12	-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	3.6	-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	2.76	3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	7.02	100	-	-	
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	45	500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	0.007	1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01	6	-	-	
Eluate Analysis					10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)	
Arsenic	A-T-025	N	N	0.008	0.080	0.5	2	25
Barium	A-T-025	N	N	0.076	0.760	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.009	0.090	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	<0.01	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.015	0.150	0.5	10	50
Antimony	A-T-025	N	N	0.001	0.010	0.06	0.7	5
Selenium	A-T-025	N	N	0.003	0.030	0.1	0.5	7
Zinc	A-T-025	N	N	0.020	0.200	4	50	200
Chloride	A-T-026	N	N	<1.00	<10	800	15000	25000
Fluoride	A-T-026	N	N	0.4	4.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	25	250	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	61	610	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	<200	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.4				
Conductivity (µS/cm)	A-T-037	N	N	121				
Mass Sample (kg)				0.186				
Dry Matter (%)	A-T-044	N	N	94.1				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

Sample Details					Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/08409/3			
Client Sample Number					Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				C			
Depth to Top							
Depth to Bottom							
Date Sampled				25/08/2022			
Sample Type				Soil - ES			
Sample Matrix Code				4A			
Solid Waste Analysis							
pH (pH Units) _D	A-T-031	N	N	9.37	-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.75	-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.13	-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	4.5	-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	2.85	3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	3.7	100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	24	500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007	1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01	6	-	-
Eluate Analysis				10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)	
Arsenic	A-T-025	N	N	0.014	0.140	0.5	25
Barium	A-T-025	N	N	0.069	0.690	20	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	5
Chromium	A-T-025	N	N	<0.001	<0.01	0.5	70
Copper	A-T-025	N	N	0.007	0.070	2	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	2
Molybdenum	A-T-025	N	N	0.002	0.020	0.5	30
Nickel	A-T-025	N	N	<0.002	<0.02	0.4	40
Lead	A-T-025	N	N	0.015	0.150	0.5	50
Antimony	A-T-025	N	N	0.002	0.020	0.06	5
Selenium	A-T-025	N	N	0.002	0.020	0.1	7
Zinc	A-T-025	N	N	0.017	0.170	4	200
Chloride	A-T-026	N	N	1	11	800	25000
Fluoride	A-T-026	N	N	0.4	4.0	10	500
Sulphate as SO ₄	A-T-026	N	N	85	854	1000	50000
Total Dissolved Solids	A-T-035	N	N	124	1240	4000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	<200	500	1000
Leach Test Information							
pH (pH Units)	A-T-031	N	N	7.8			
Conductivity (µS/cm)	A-T-037	N	N	247			
Mass Sample (kg)				0.186			
Dry Matter (%)	A-T-044	N	N	94			
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation							









