



Interim Report of Analysis

Certificate Number 15-27519

23-Feb-15

Client Terra Firma (Wales) Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

Our Reference 15-27519

Client Reference 12032-SP1

Contract Title Herbert Road Stockpile - Round 1

Description 11 Soil samples.

Date Received 17-Feb-15

Date Started 17-Feb-15

Test Procedures Identified by prefix DETSn (details on request), Asbestos Analysis DETSC 1101.

Notes Opinions and interpretations are outside the scope of UKAS accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read "Rob Brown".

Rob Brown
Business Manager



Summary of Chemical Analysis

Matrix Descriptions

Our Ref 15-27519

Client Ref 12032-SP1

Contract Title Herbert Road Stockpile - Round 1

Sample ID	Lab No	Completed	Matrix Description
S26	769704	23/02/2015	Dark brown gravelly sandy CLAY with odd rootlets
S27	769705	23/02/2015	Dark brown gravelly sandy CLAY
S28	769706	23/02/2015	Dark brown gravelly sandy CLAY with odd rootlets (Made Ground includes brick)
S29	769707	23/02/2015	Dark brown gravelly sandy CLAY with odd rootlets
S30	769708	23/02/2015	Dark brown gravelly sandy CLAY
S31	769709	23/02/2015	Dark brown gravelly sandy CLAY
S32	769710	23/02/2015	Dark brown gravelly sandy CLAY with odd rootlets
S33	769711	23/02/2015	Dark brown gravelly sandy CLAY
S34	769712	23/02/2015	Dark grey gravelly sandy CLAY
S35	769713	23/02/2015	Dark gravelly sandy CLAY
S36	769714	23/02/2015	Brown (sample matrix outside MCERTS scope of accreditation)

Summary of Chemical Analysis

Soil Samples

Our Ref 15-27519

Client Ref 12032-SP1

Contract Title Herbert Road Stockpile - Round 1

Lab No	769704	769705	769706	769707	769708	769709	769710
Sample ID	S26	S27	S28	S29	S30	S31	S32
Depth							
Other ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/02/15	16/02/15	16/02/15	16/02/15	16/02/15	16/02/15	16/02/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units								
Metals											
Arsenic	DETSC 2301#	0.2	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Cadmium	DETSC 2301#	0.1	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Chromium	DETSC 2301#	0.15	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Chromium III	DETSC 2301*	0.15	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Lead	DETSC 2301#	0.3	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Mercury	DETSC 2325#	0.05	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Nickel	DETSC 2301#	1	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Selenium	DETSC 2301#	0.5	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Zinc	DETSC 2301#	1	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Inorganics											
pH	DETSC 2008#			8.7	9.3	9.5	8.6	8.7	11.3	8.8	
Cyanide total	DETSC 2130#	0.1	mg/kg	0.1	0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	
Organic matter	DETSC 2002#	0.1	%	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.07	0.07	0.08	0.16	0.27	0.07	0.07	
Petroleum Hydrocarbons											
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
Aromatic C5-C35	DETSC 3072*	10	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f
TPH Ali/Aro	DETSC 3072*	10	mg/kg	t/f	t/f	t/f	t/f	t/f	t/f	t/f	t/f

Summary of Chemical Analysis

Soil Samples

Our Ref 15-27519

Client Ref 12032-SP1

Contract Title Herbert Road Stockpile - Round 1

Lab No	769704	769705	769706	769707	769708	769709	769710
Sample ID	S26	S27	S28	S29	S30	S31	S32
Depth							
Other ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/02/15	16/02/15	16/02/15	16/02/15	16/02/15	16/02/15	16/02/15
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units								
PAHs											
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03	
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.04	0.06	0.06	0.06	0.12	0.17	0.06	
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.05	0.04	< 0.03	
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.08	0.10	0.12	0.09	0.25	0.12	0.08	
Pyrene	DETSC 3303#	0.03	mg/kg	0.07	0.09	0.10	0.07	0.22	0.10	0.07	
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.04	0.04	0.05	< 0.03	0.11	0.04	0.04	
Chrysene	DETSC 3303	0.03	mg/kg	0.05	0.06	0.06	0.05	0.12	0.06	0.04	
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.04	0.06	0.06	0.04	0.13	0.05	0.04	
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03	< 0.03	
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	0.05	< 0.03	0.09	< 0.03	< 0.03	
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.06	< 0.03	< 0.03	
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.05	< 0.03	< 0.03	
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	0.33	0.45	0.50	0.30	1.2	0.61	0.33	
Phenols											
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.4	0.4	< 0.3	< 0.3	0.4	0.4	< 0.3	

Summary of Chemical Analysis

Soil Samples

Our Ref 15-27519

Client Ref 12032-SP1

Contract Title Herbert Road Stockpile - Round 1

Lab No	769711	769712	769713	769714
Sample ID	S33	S34	S35	S36
Depth				
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/02/15	16/02/15	16/02/15	16/02/15
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	t/f	t/f	t/f	t/f
Cadmium	DETSC 2301#	0.1	mg/kg	t/f	t/f	t/f	t/f
Chromium	DETSC 2301#	0.15	mg/kg	t/f	t/f	t/f	t/f
Chromium III	DETSC 2301*	0.15	mg/kg	t/f	t/f	t/f	t/f
Hexavalent Chromium	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	t/f	t/f	t/f	t/f
Lead	DETSC 2301#	0.3	mg/kg	t/f	t/f	t/f	t/f
Mercury	DETSC 2325#	0.05	mg/kg	t/f	t/f	t/f	t/f
Nickel	DETSC 2301#	1	mg/kg	t/f	t/f	t/f	t/f
Selenium	DETSC 2301#	0.5	mg/kg	t/f	t/f	t/f	t/f
Zinc	DETSC 2301#	1	mg/kg	t/f	t/f	t/f	t/f
Inorganics							
pH	DETSC 2008#			11.5	10.9	9.0	11.5
Cyanide total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	t/f	t/f	t/f	t/f
Total Sulphate as SO4	DETSC 2321#	0.01	%	0.15	0.06	0.12	0.11
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	t/f	t/f	t/f	t/f
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	t/f	t/f	t/f	t/f
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	t/f	t/f	t/f	t/f
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	t/f	t/f	t/f	t/f
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	t/f	t/f	t/f	t/f
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	0.03	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	0.10	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	t/f	t/f	t/f	t/f
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	t/f	t/f	t/f	t/f
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	t/f	t/f	t/f	t/f
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	t/f	t/f	t/f	t/f
Aromatic C5-C35	DETSC 3072*	10	mg/kg	t/f	t/f	t/f	t/f
TPH Ali/Aro	DETSC 3072*	10	mg/kg	t/f	t/f	t/f	t/f

Summary of Chemical Analysis

Soil Samples

Our Ref 15-27519

Client Ref 12032-SP1

Contract Title Herbert Road Stockpile - Round 1

Lab No	769711	769712	769713	769714
Sample ID	S33	S34	S35	S36
Depth				
Other ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sampling Date	16/02/15	16/02/15	16/02/15	16/02/15
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.21	0.22	< 0.03	0.10
Anthracene	DETSC 3303	0.03	mg/kg	0.07	0.04	< 0.03	0.04
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.41	0.17	0.07	0.20
Pyrene	DETSC 3303#	0.03	mg/kg	0.36	0.17	0.06	0.18
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.18	0.08	< 0.03	0.09
Chrysene	DETSC 3303	0.03	mg/kg	0.20	0.20	< 0.03	0.10
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.22	0.13	0.04	0.12
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.08	0.04	< 0.03	0.04
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.19	0.08	< 0.03	0.09
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.11	0.08	< 0.03	0.06
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.10	0.05	< 0.03	0.05
Total PAH - USEPA 16	DETSC 3303	0.1	mg/kg	2.1	1.3	0.17	1.1
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	0.3	< 0.3	< 0.3

Summary of Asbestos Analysis

Soil Samples

Our Ref 15-27519

Client Ref 12032-SP1

Contract Title Herbert Road Stockpile - Round 1

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
769704	S26	SOIL	NAD	none	Jeff Cruddas
769705	S27	SOIL	NAD	none	Jeff Cruddas
769706	S28	SOIL	NAD	none	Jeff Cruddas
769707	S29	SOIL	NAD	none	Jeff Cruddas
769708	S30	SOIL	NAD	none	Jeff Cruddas
769709	S31	SOIL	NAD	none	Jeff Cruddas
769710	S32	SOIL	Amosite	Amosite present as fibre bundles	Jeff Cruddas
769711	S33	SOIL	NAD	none	Jeff Cruddas
769712	S34	SOIL	NAD	none	Jeff Cruddas
769713	S35	SOIL	NAD	none	Jeff Cruddas
769714	S36	SOIL	NAD	none	Jeff Cruddas

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 15-27519
 Client Ref 12032-SP1
 Contract Herbert Road Stockpile - Round 1

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
769704	S26 SOIL	16/02/15	GJ 1L, GJ 60ml, PT 1L x2		
769705	S27 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769706	S28 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769707	S29 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769708	S30 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769709	S31 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769710	S32 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769711	S33 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769712	S34 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769713	S35 SOIL	16/02/15	GJ 250ml x2, GJ 60ml, PT 1L x2		
769714	S36 SOIL	16/02/15	GJ 250ml x2, PT 1L x2		

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 2002	Organic matter	%	0.1	Air Dried	No	Yes	Yes
DETS 2003	Loss on ignition	%	0.01	Air Dried	No	Yes	Yes
DETS 2008	pH	pH Units	1	Air Dried	No	Yes	Yes
DETS 2024	Sulphide	mg/kg	10	Air Dried	No	Yes	Yes
DETS 2076	Sulphate Aqueous Extract as SO4	mg/l	10	Air Dried	No	Yes	Yes
DETS 2084	Total Carbon	%	0.5	Air Dried	No	Yes	Yes
DETS 2084	Total Organic Carbon	%	0.5	Air Dried	No	Yes	Yes
DETS 2119	Ammoniacal Nitrogen as N	mg/kg	0.5	Air Dried	No	Yes	Yes
DETS 2130	Cyanide free	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2130	Cyanide total	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2130	Phenol - Monohydric	mg/kg	0.3	Air Dried	No	Yes	Yes
DETS 2130	Thiocyanate	mg/kg	0.6	Air Dried	No	Yes	Yes
DETS 2321	Total Sulphate as SO4	%	0.01	Air Dried	No	Yes	Yes
DETS 2325	Mercury	mg/kg	0.05	Air Dried	No	Yes	Yes
DETS 3049	Sulphur (free)	mg/kg	0.75	Air Dried	No	Yes	Yes
DETS 2123	Boron (water soluble)	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Arsenic	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Barium	mg/kg	1.5	Air Dried	No	Yes	Yes
DETS 2301	Beryllium	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Cadmium Available	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2301	Cadmium	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2301	Cobalt	mg/kg	0.7	Air Dried	No	Yes	Yes
DETS 2301	Chromium	mg/kg	0.15	Air Dried	No	Yes	Yes
DETS 2301	Copper	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Manganese	mg/kg	20	Air Dried	No	Yes	Yes
DETS 2301	Molybdenum	mg/kg	0.4	Air Dried	No	Yes	Yes
DETS 2301	Nickel	mg/kg	1	Air Dried	No	Yes	Yes
DETS 2301	Lead	mg/kg	0.3	Air Dried	No	Yes	Yes
DETS 2301	Selenium	mg/kg	0.5	Air Dried	No	Yes	Yes
DETS 2301	Zinc	mg/kg	1	Air Dried	No	Yes	Yes
DETS 3072	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETS 3072	Aliphatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETS 3072	Aliphatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETS 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETS 3072	Aromatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETS 3072	Aromatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 062	Benzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Ethylbenzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Toluene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	m+p Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	o Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3311	C10-C24 Diesel Range Organics (DRO)	mg/kg	10	As Received	No	Yes	Yes
DETS 3311	C24-C40 Lube Oil Range Organics (LORO)	mg/kg	10	As Received	No	Yes	Yes
DETS 3311	EPH (C10-C40)	mg/kg	10	As Received	No	Yes	Yes

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 3303	Acenaphthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Acenaphthylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(b)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(k)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(g,h,i)perylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Dibenzo(a,h)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Indeno(1,2,3-c,d)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Naphthalene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Phenanthrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3401	PCB 28 + PCB 31	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 52	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 101	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 118	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 153	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 138	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB 180	mg/kg	0.01	As Received	No	Yes	Yes
DETS 3401	PCB Total	mg/kg	0.01	As Received	No	Yes	Yes

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.