

Appendix I

CHEMICAL TESTING REPORTS





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Keltbray Remediation Ltd
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KT10 9TA

DETS Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
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ME17 2JN
t: 01622 850410

DETS Report No: 21-02149

Site Reference: Bermondsey Biscuit Factory, Clements Road

Project / Job Ref: None Supplied

Order No: None Supplied

Sample Receipt Date: 23/02/2021

Sample Scheduled Date: 23/02/2021

Report Issue Number: 1

Reporting Date: 02/03/2021

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 21-02149	Date Sampled	15/02/21	15/02/21	15/02/21	17/02/21	17/02/21
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP18	TP18	TP32	TP04	TP04
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.80	2.40	1.60	0.50	1.40
Reporting Date: 02/03/2021	DETS Sample No	527465	527466	527467	527468	527469

Determinand	Unit	RL	Accreditation	15/02/21	15/02/21	15/02/21	17/02/21	17/02/21
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Sample Matrix ^(S)	Material Type	N/a	NONE					
Asbestos Type ^(S)	PLM Result	N/a	ISO17025					
Asbestos Quantification ^(S)	%	< 0.001	ISO17025					
pH	pH Units	N/a	MCERTS	8.9				
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	12120	309	17690	1926	4689
Total Sulphate as SO ₄	%	< 0.02	MCERTS	1.21	0.03	1.77	0.19	0.47
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	1580	122	1470	222	1620
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	1.58	0.12	1.47	0.22	1.62
Elemental Sulphur	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Organic Carbon (TOC)	%	< 0.1	MCERTS	1.8				
Arsenic (As)	mg/kg	< 2	MCERTS	16	8	21	18	26
Barium (Ba)	mg/kg	< 2.5	MCERTS	146	10	156	130	146
Beryllium (Be)	mg/kg	< 0.5	MCERTS	0.9	< 0.5	0.9	0.8	0.8
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	NONE	< 0.2	< 0.2	0.3	< 0.2	0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	15	9	12	11	14
Copper (Cu)	mg/kg	< 4	MCERTS	82	< 4	119	83	63
Lead (Pb)	mg/kg	< 3	MCERTS	262	53	628	544	613
Mercury (Hg)	mg/kg	< 1	MCERTS	1.4	< 1	3.2	3	1.1
Nickel (Ni)	mg/kg	< 3	MCERTS	28	7	27	15	16
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	MCERTS	30	18	32	34	38
Zinc (Zn)	mg/kg	< 3	MCERTS	101	14	273	103	119
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate					
DETS Report No: 21-02149	Date Sampled	17/02/21	17/02/21	18/02/21	
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP05	TP05	TP06	
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	
Order No: None Supplied	Depth (m)	1.50	1.90	1.20	
Reporting Date: 02/03/2021	DETS Sample No	527470	527471	527472	

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Detected	
Sample Matrix ^(S)	Material Type	N/a	NONE			Small bundles of Chrysotile	
Asbestos Type ^(S)	PLM Result	N/a	ISO17025			Chrysotile	
Asbestos Quantification ^(S)	%	< 0.001	ISO17025			< 0.001	
pH	pH Units	N/a	MCERTS				
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	694	248	781	
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.07	0.02	0.08	
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	105	43	172	
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.11	0.04	0.17	
Elemental Sulphur	mg/kg	< 10	NONE	< 10	< 10	< 10	
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	
Total Organic Carbon (TOC)	%	< 0.1	MCERTS				
Arsenic (As)	mg/kg	< 2	MCERTS	12	8	15	
Barium (Ba)	mg/kg	< 2.5	MCERTS	87	33	142	
Beryllium (Be)	mg/kg	< 0.5	MCERTS	0.6	0.5	1	
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	
Cadmium (Cd)	mg/kg	< 0.2	NONE	< 0.2	< 0.2	0.5	
Chromium (Cr)	mg/kg	< 2	MCERTS	11	17	21	
Copper (Cu)	mg/kg	< 4	MCERTS	41	9	105	
Lead (Pb)	mg/kg	< 3	MCERTS	546	38	232	
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	
Nickel (Ni)	mg/kg	< 3	MCERTS	11	12	24	
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3	
Vanadium (V)	mg/kg	< 1	MCERTS	26	26	39	
Zinc (Zn)	mg/kg	< 3	MCERTS	90	31	582	
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-02149	Date Sampled	15/02/21	15/02/21	15/02/21	17/02/21	17/02/21
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP18	TP18	TP32	TP04	TP04
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.80	2.40	1.60	0.50	1.40
Reporting Date: 02/03/2021	DETS Sample No	527465	527466	527467	527468	527469

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	0.28	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	0.44	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	2.16	< 0.1	0.87	0.19	0.22
Anthracene	mg/kg	< 0.1	MCERTS	0.74	< 0.1	0.14	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	3.60	< 0.1	1.09	0.20	0.16
Pyrene	mg/kg	< 0.1	MCERTS	3.16	< 0.1	0.96	0.20	0.16
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	1.77	< 0.1	0.58	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	1.53	< 0.1	0.65	0.17	0.17
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	1.53	< 0.1	0.68	0.19	0.18
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.66	< 0.1	0.28	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	1.33	< 0.1	0.51	0.12	0.12
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.64	< 0.1	0.28	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.13	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.53	< 0.1	0.25	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	18.5	< 1.6	6.3	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-02149	Date Sampled	17/02/21	17/02/21	18/02/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP05	TP05	TP06		
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	Depth (m)	1.50	1.90	1.20		
Reporting Date: 02/03/2021	DETS Sample No	527470	527471	527472		

Determinand	Unit	RL	Accreditation				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	
Phenanthrene	mg/kg	< 0.1	MCERTS	0.57	< 0.1	0.27	
Anthracene	mg/kg	< 0.1	MCERTS	0.24	< 0.1	< 0.1	
Fluoranthene	mg/kg	< 0.1	MCERTS	1.81	< 0.1	0.50	
Pyrene	mg/kg	< 0.1	MCERTS	1.68	< 0.1	0.43	
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.87	< 0.1	0.18	
Chrysene	mg/kg	< 0.1	MCERTS	0.80	< 0.1	0.27	
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.90	< 0.1	0.26	
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.35	< 0.1	< 0.1	
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.71	< 0.1	0.18	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.34	< 0.1	< 0.1	
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.28	< 0.1	< 0.1	
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	8.6	< 1.6	2.1	



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 21-02149	Date Sampled	15/02/21	15/02/21	15/02/21	17/02/21	17/02/21
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP18	TP18	TP32	TP04	TP04
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.80	2.40	1.60	0.50	1.40
Reporting Date: 02/03/2021	DETS Sample No	527465	527466	527467	527468	527469

Determinand	Unit	RL	Accreditation	15/02/21	15/02/21	15/02/21	17/02/21	17/02/21
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	5	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	21	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	37	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 21-02149	Date Sampled	17/02/21	17/02/21	18/02/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP05	TP05	TP06		
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	Depth (m)	1.50	1.90	1.20		
Reporting Date: 02/03/2021	DETS Sample No	527470	527471	527472		

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-02149	Date Sampled	15/02/21	15/02/21	15/02/21	17/02/21	17/02/21
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP18	TP18	TP32	TP04	TP04
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.80	2.40	1.60	0.50	1.40
Reporting Date: 02/03/2021	DETS Sample No	527465	527466	527467	527468	527469

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
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Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP05	TP05	TP06		
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	Depth (m)	1.50	1.90	1.20		
Reporting Date: 02/03/2021	DETS Sample No	527470	527471	527472		

Determinand	Unit	RL	Accreditation				
Benzene	ug/kg	< 2	MCERTS	4	< 2	< 2	
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	



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Soil Analysis Certificate - Volatile Organic Compounds (VOC)						
DETS Report No: 21-02149	Date Sampled	15/02/21	15/02/21	15/02/21	17/02/21	17/02/21
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP18	TP18	TP32	TP04	TP04
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.80	2.40	1.60	0.50	1.40
Reporting Date: 02/03/2021	DETS Sample No	527465	527466	527467	527468	527469

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Chloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Trichlorofluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Carbon Tetrachloride	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
TAME	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Styrene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - Volatile Organic Compounds (VOC)					
DETS Report No: 21-02149	Date Sampled	17/02/21	17/02/21	18/02/21	
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP05	TP05	TP06	
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	
Order No: None Supplied	Depth (m)	1.50	1.90	1.20	
Reporting Date: 02/03/2021	DETS Sample No	527470	527471	527472	

Determinand	Unit	RL	Accreditation			
Dichlorodifluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Vinyl Chloride	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Chloromethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10
Chloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Bromomethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10
Trichlorofluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,1-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5
trans-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,1-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
2,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Chloroform	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Bromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,1,1-Trichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,1-Dichloropropene	ug/kg	< 10	MCERTS	< 10	< 10	< 10
Carbon Tetrachloride	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Benzene	ug/kg	< 2	MCERTS	4	< 2	< 2
1,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Trichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Bromodichloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Dibromomethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
TAME	ug/kg	< 5	MCERTS	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/kg	< 10	MCERTS	< 10	< 10	< 10
1,3-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Tetrachloroethene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Dibromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,2-Dibromoethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Chlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Ethyl Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2
m,p-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2
o-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2
Styrene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Bromoform	ug/kg	< 10	MCERTS	< 10	< 10	< 10
Isopropylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,2,3-Trichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	< 5
n-Propylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
Bromobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
2-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
4-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
tert-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
sec-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
p-Isopropyltoluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
n-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/kg	< 10	MCERTS	< 10	< 10	< 10
Hexachlorobutadiene	ug/kg	< 5	MCERTS	< 5	< 5	< 5



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Soil Analysis Certificate - PCB (7 Congeners)						
DETS Report No: 21-02149	Date Sampled	15/02/21	15/02/21	15/02/21	17/02/21	17/02/21
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP18	TP18	TP32	TP04	TP04
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: None Supplied	Depth (m)	1.80	2.40	1.60	0.50	1.40
Reporting Date: 02/03/2021	DETS Sample No	527465	527466	527467	527468	527469

Determinand	Unit	RL	Accreditation					
PCB Congener 28	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
PCB Congener 52	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
PCB Congener 101	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
PCB Congener 118	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
PCB Congener 138	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
PCB Congener 153	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
PCB Congener 180	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total PCB (7 Congeners)	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Soil Analysis Certificate - PCB (7 Congeners)						
DETS Report No: 21-02149	Date Sampled	17/02/21	17/02/21	18/02/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Bermondsey Biscuit Factory, Clements Road	TP / BH No	TP05	TP05	TP06		
Project / Job Ref: None Supplied	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: None Supplied	Depth (m)	1.50	1.90	1.20		
Reporting Date: 02/03/2021	DETS Sample No	527470	527471	527472		

Determinand	Unit	RL	Accreditation				
PCB Congener 28	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	
PCB Congener 52	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	
PCB Congener 101	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	
PCB Congener 118	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	
PCB Congener 138	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	
PCB Congener 153	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	
PCB Congener 180	mg/kg	0.008	NONE	< 0.008	< 0.008	< 0.008	
Total PCB (7 Congeners)	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	



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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3								
DETS Report No: 21-02149		Date Sampled	15/02/21		Landfill Waste Acceptance Criteria Limits			
Keltbray Remediation Ltd		Time Sampled	None Supplied					
Site Reference: Bermondsey Biscuit Factory, Clements Road		TP / BH No	TP18					
Project / Job Ref: None Supplied		Additional Refs	None Supplied					
Order No: None Supplied		Depth (m)	1.80					
Reporting Date: 02/03/2021		DETS Sample No	527465					
Determinand	Unit	MDL			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
TOC ^{MU}	%	< 0.1	1.8		3%	5%	6%	
Loss on Ignition	%	< 0.01	6		--	--	10%	
BTEX ^{MU}	mg/kg	< 0.05	< 0.05		6	--	--	
Sum of PCBs	mg/kg	< 0.1	< 0.1		1	--	--	
Mineral Oil ^{MU}	mg/kg	< 10	< 10		500	--	--	
Total PAH ^{MU}	mg/kg	< 1.7	18.7		100	--	--	
pH ^{MU}	pH Units	N/a	8.9		--	>6	--	
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	3		--	To be evaluated	To be evaluated	
Eluate Analysis			2:1 mg/l	8:1 mg/l	Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U		< 0.01	< 0.01		< 0.2	0.5	2	25
Barium ^U		0.05	< 0.02		0.2	20	100	300
Cadmium ^U		< 0.0005	< 0.0005		< 0.02	0.04	1	5
Chromium ^U		0.015	< 0.005		< 0.20	0.5	10	70
Copper ^U		0.04	0.02		< 0.5	2	50	100
Mercury ^U		< 0.0005	< 0.0005		< 0.005	0.01	0.2	2
Molybdenum ^U		0.034	0.009		0.1	0.5	10	30
Nickel ^U		< 0.007	< 0.007		< 0.2	0.4	10	40
Lead ^U		< 0.005	< 0.005		< 0.2	0.5	10	50
Antimony ^U		0.007	< 0.005		< 0.05	0.06	0.7	5
Selenium ^U		0.007	< 0.005		< 0.05	0.1	0.5	7
Zinc ^U		0.014	< 0.005		< 0.2	4	50	200
Chloride ^U		41	8		112	800	15000	25000
Fluoride ^U		< 0.5	< 0.5		< 1	10	150	500
Sulphate ^U		1652	776		8705	1000	20000	50000
TDS		1910	924		10308	4000	60000	100000
Phenol Index		< 0.01	< 0.01		< 0.5	1	-	-
DOC		11.6	5.8		63.9	500	800	1000
Leach Test Information								
Sample Mass (kg)		0.19						
Dry Matter (%)		90.5						
Moisture (%)		10.6						
Stage 1								
Volume Eluate L2 (litres)		0.33						
Filtered Eluate VE1 (litres)		0.19						
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion								
Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation								
M Denotes MCERTS accredited test								
U Denotes ISO17025 accredited test								



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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 21-02149	
Keltbray Remediation Ltd	
Site Reference: Bermondsey Biscuit Factory, Clements Road	
Project / Job Ref: None Supplied	
Order No: None Supplied	
Reporting Date: 02/03/2021	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
527465	TP18	None Supplied	1.80	9.5	Brown loamy sand with stones
527466	TP18	None Supplied	2.40	4.7	Light brown sandy clay with stones
527467	TP32	None Supplied	1.60	11.8	Black loamy sand with stones and concrete
527468	TP04	None Supplied	0.50	15.8	Brown loamy sand with brick and concrete
527469	TP04	None Supplied	1.40	13.1	Brown sandy clay with brick and concrete
527470	TP05	None Supplied	1.50	11.3	Brown loamy sand with stones and concrete
527471	TP05	None Supplied	1.90	6.8	Brown sandy clay with stones
527472	TP06	None Supplied	1.20	14.4	Brown sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 21-02149
Keltbray Remediation Ltd
Site Reference: Bermondsey Biscuit Factory, Clements Road
Project / Job Ref: None Supplied
Order No: None Supplied
Reporting Date: 02/03/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

Parameter	Matrix Type	Suite Reference	Expanded Uncertainty Measurement	Unit
TOC	Soil	BS EN 12457	13.49	%
Loss on Ignition	Soil	BS EN 12457	17	%
BTEX	Soil	BS EN 12457	14	%
Sum of PCBs	Soil	BS EN 12457	23	%
Mineral Oil	Soil	BS EN 12457	9	%
Total PAH	Soil	BS EN 12457	20	%
pH	Soil	BS EN 12457	0.399	Units
Acid Neutralisation Capacity	Soil	BS EN 12457	18	%
Arsenic	Leachate	BS EN 12457	16.63	%
Barium	Leachate	BS EN 12457	14.29	%
Cadmium	Leachate	BS EN 12457	14.44	%
Chromium	Leachate	BS EN 12457	18.06	%
Copper	Leachate	BS EN 12457	21.27	%
Mercury	Leachate	BS EN 12457	24.13	%
Molybdenum	Leachate	BS EN 12457	12.55	%
Nickel	Leachate	BS EN 12457	20.08	%
Lead	Leachate	BS EN 12457	13.43	%
Antimony	Leachate	BS EN 12457	18.85	%
Selenium	Leachate	BS EN 12457	18.91	%
Zinc	Leachate	BS EN 12457	13.71	%
Chloride	Leachate	BS EN 12457	16	%
Fluoride	Leachate	BS EN 12457	19.4	%
Sulphate	Leachate	BS EN 12457	19.63	%
TDS	Leachate	BS EN 12457	12	%
Phenol Index	Leachate	BS EN 12457	14	%
DOC	Leachate	BS EN 12457	10	%
Clay Content	Soil	BS 3882: 2015	15	%
Silt Content	Soil	BS 3882: 2015	14	%
Sand Content	Soil	BS 3882: 2015	13	%
Loss on Ignition	Soil	BS 3882: 2015	17	%
pH	Soil	BS 3882: 2015	0.399	Units
Carbonate	Soil	BS 3882: 2015	16	%
Total Nitrogen	Soil	BS 3882: 2015	12	%
Phosphorus (Extractable)	Soil	BS 3882: 2015	24	%
Potassium (Extractable)	Soil	BS 3882: 2015	20	%
Magnesium (Extractable)	Soil	BS 3882: 2015	26	%
Zinc	Soil	BS 3882: 2015	14.9	%
Copper	Soil	BS 3882: 2015	16	%
Nickel	Soil	BS 3882: 2015	17.7	%
Available Sodium	Soil	BS 3882: 2015	23	%
Available Calcium	Soil	BS 3882: 2015	23	%
Electrical Conductivity	Soil	BS 3882: 2015	10	%



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DETS Report No: 21-09370

Site Reference: Bermondsey Project

Project / Job Ref: 6085

Order No: S-RE6085/00002

Sample Receipt Date: 27/07/2021

Sample Scheduled Date: 27/07/2021

Report Issue Number: 1

Reporting Date: 04/08/2021

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate					
DETS Report No: 21-09370	Date Sampled	22/07/21	22/07/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Bermondsey Project	TP / BH No	Campus_VS01	Campus_VS02		
Project / Job Ref: 6085	Additional Refs	(VS01)	(VS02)		
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied		
Reporting Date: 04/08/2021	DETS Sample No	556761	556762		

Determinand	Unit	RL	Accreditation	(n)	
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE		Amosite present as fibre bundles
Asbestos Type ^(S)	PLM Result	N/a	ISO17025		Amosite
Asbestos Quantification ^(S)	%	< 0.001	ISO17025		< 0.001
pH	pH Units	N/a	MCERTS	9.1	9.0
Arsenic (As)	mg/kg	< 2	MCERTS	12	13
Barium (Ba)	mg/kg	< 2.5	MCERTS	101	169
Beryllium (Be)	mg/kg	< 0.5	MCERTS	< 0.5	0.7
W/S Boron	mg/kg	< 1	NONE	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	NONE	0.3	0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	10	11
Copper (Cu)	mg/kg	< 4	MCERTS	66	63
Lead (Pb)	mg/kg	< 3	MCERTS	332	306
Mercury (Hg)	mg/kg	< 1	MCERTS	1	1.2
Nickel (Ni)	mg/kg	< 3	MCERTS	9	10
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3
Vanadium (V)	mg/kg	< 1	MCERTS	23	27
Zinc (Zn)	mg/kg	< 3	MCERTS	153	177

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - Speciated PAHs					
DETS Report No: 21-09370	Date Sampled	22/07/21	22/07/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Bermondsey Project	TP / BH No	Campus_VS01	Campus_VS02		
Project / Job Ref: 6085	Additional Refs	(VS01)	(VS02)		
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied		
Reporting Date: 04/08/2021	DETS Sample No	556761	556762		

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Phenanthrene	mg/kg	< 0.1	MCERTS	0.47	0.62			
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Fluoranthene	mg/kg	< 0.1	MCERTS	1.06	1.53			
Pyrene	mg/kg	< 0.1	MCERTS	0.92	1.31			
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.54	0.73			
Chrysene	mg/kg	< 0.1	MCERTS	0.55	0.72			
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.97	1.29			
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.26	0.27			
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.60	0.78			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.57	0.70			
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.34	0.43			
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	6.3	8.4			

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Soil Analysis Certificate - TPH CWG Banded					
DETS Report No: 21-09370	Date Sampled	22/07/21	22/07/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Bermondsey Project	TP / BH No	Campus_VS01	Campus_VS02		
Project / Job Ref: 6085	Additional Refs	(VS01)	(VS02)		
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied		
Reporting Date: 04/08/2021	DETS Sample No	556761	556762		

Determinand	Unit	RL	Accreditation	(n)	
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	3	4
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	12	15
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	44	11
Aromatic (C5 - C35)	mg/kg	< 21	NONE	58	29
Total >C5 - C35	mg/kg	< 42	NONE	58	< 42

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-09370	Date Sampled	22/07/21	22/07/21			
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Bermondsey Project	TP / BH No	Campus_VS01	Campus_VS02			
Project / Job Ref: 6085	Additional Refs	(VS01)	(VS02)			
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied			
Reporting Date: 04/08/2021	DETS Sample No	556761	556762			

Determinand	Unit	RL	Accreditation	(n)		
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	

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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 21-09370	
Keltbray Remediation Ltd	
Site Reference: Bermondsey Project	
Project / Job Ref: 6085	
Order No: S-RE6085/00002	
Reporting Date: 04/08/2021	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
556761	Campus VS01	(VS01)	None Supplied	9.4	Brown sandy gravel with stones and concrete
556762	Campus VS02	(VS02)	None Supplied	13.9	Brown sandy clay with stones and concrete

Moisture content is part of procedure E003 & is not an accredited test
Insufficient Sample ^{1/5}
Unsuitable Sample ^{U/S}

Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 21-09370
Keltbray Remediation Ltd
Site Reference: Bermondsey Project
Project / Job Ref: 6085
Order No: S-RE6085/00002
Reporting Date: 04/08/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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DETS Report No: 21-09372

Site Reference: Bermondsey Project

Project / Job Ref: 6085

Order No: S-RE6085/00002

Sample Receipt Date: 27/07/2021

Sample Scheduled Date: 27/07/2021

Report Issue Number: 1

Reporting Date: 03/08/2021

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 21-09372	Date Sampled	22/07/21	22/07/21			
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Bermondsey Project	TP / BH No	WS01_VS02	WS01_VS01			
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied			
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied			
Reporting Date: 03/08/2021	DETS Sample No	556765	556766			

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 21-09372
Keltbray Remediation Ltd
Site Reference: Bermondsey Project
Project / Job Ref: 6085
Order No: S-RE6085/00002
Reporting Date: 03/08/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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DETS Report No: 21-09373

Site Reference: Bermondsey Project

Project / Job Ref: 6085

Order No: S-RE6085/00002

Sample Receipt Date: 27/07/2021

Sample Scheduled Date: 27/07/2021

Report Issue Number: 1

Reporting Date: 03/08/2021

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate					
DETS Report No: 21-09373	Date Sampled	22/07/21	22/07/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Bermondsey Project	TP / BH No	WS04_VS02	WS04_VS01		
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied		
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied		
Reporting Date: 03/08/2021	DETS Sample No	556767	556768		

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected		
pH	pH Units	N/a	MCERTS	8.3	7.7		
Arsenic (As)	mg/kg	< 2	MCERTS	16	16		
Barium (Ba)	mg/kg	< 2.5	MCERTS	203	34		
Beryllium (Be)	mg/kg	< 0.5	MCERTS	1	0.7		
W/S Boron	mg/kg	< 1	NONE	< 1	< 1		
Cadmium (Cd)	mg/kg	< 0.2	NONE	< 0.2	< 0.2		
Chromium (Cr)	mg/kg	< 2	MCERTS	19	21		
Copper (Cu)	mg/kg	< 4	MCERTS	67	10		
Lead (Pb)	mg/kg	< 3	MCERTS	576	29		
Mercury (Hg)	mg/kg	< 1	MCERTS	3	< 1		
Nickel (Ni)	mg/kg	< 3	MCERTS	15	16		
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3		
Vanadium (V)	mg/kg	< 1	MCERTS	43	45		
Zinc (Zn)	mg/kg	< 3	MCERTS	194	35		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs					
DETS Report No: 21-09373	Date Sampled	22/07/21	22/07/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Bermondsey Project	TP / BH No	WS04_VS02	WS04_VS01		
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied		
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied		
Reporting Date: 03/08/2021	DETS Sample No	556767	556768		

Determinand	Unit	RL	Accreditation				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	0.58	< 0.1		
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	1.20	< 0.1		
Pyrene	mg/kg	< 0.1	MCERTS	0.97	< 0.1		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.58	< 0.1		
Chrysene	mg/kg	< 0.1	MCERTS	0.47	< 0.1		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.79	< 0.1		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.16	< 0.1		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.43	< 0.1		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.41	< 0.1		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.17	< 0.1		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	5.8	< 1.6		



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Soil Analysis Certificate - TPH CWG Banded					
DETS Report No: 21-09373	Date Sampled	22/07/21	22/07/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Bermondsey Project	TP / BH No	WS04_VS02	WS04_VS01		
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied		
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied		
Reporting Date: 03/08/2021	DETS Sample No	556767	556768		

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01		
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05		
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2		
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2		
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3		
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3		
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10		
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21		
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01		
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05		
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2		
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2		
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	3	< 2		
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	11	< 3		
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10		
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21		
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42		



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-09373	Date Sampled	22/07/21	22/07/21			
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Bermondsey Project	TP / BH No	WS04_VS02	WS04_VS01			
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied			
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied			
Reporting Date: 03/08/2021	DETS Sample No	556767	556768			

Determinand	Unit	RL	Accreditation				
Benzene	ug/kg	< 2	MCERTS	< 2	< 2		
Toluene	ug/kg	< 5	MCERTS	< 5	< 5		
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2		
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2		
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2		
MTBE	ug/kg	< 5	MCERTS	< 5	< 5		



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 21-09373	
Keltbray Remediation Ltd	
Site Reference: Bermondsey Project	
Project / Job Ref: 6085	
Order No: S-RE6085/00002	
Reporting Date: 03/08/2021	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
556767	WS04 VS02	None Supplied	None Supplied	12.3	Brown sandy clay with stones and brick
556768	WS04 VS01	None Supplied	None Supplied	12.2	Brown sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/5}

Unsuitable Sample ^{U/5}

Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 21-09373
Keltbray Remediation Ltd
Site Reference: Bermondsey Project
Project / Job Ref: 6085
Order No: S-RE6085/00002
Reporting Date: 03/08/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazine followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

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DETS Report No: 21-12103

Site Reference: Bermondsey Project

Project / Job Ref: 6085

Order No: S-RE6085/00002

Sample Receipt Date: 07/10/2021

Sample Scheduled Date: 07/10/2021

Report Issue Number: 1

Reporting Date: 18/10/2021

Authorised by:

Ela Mvsiara
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 21-12103	Date Sampled	05/10/21	05/10/21	05/10/21	05/10/21	
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Bermondsey Project	TP / BH No	CC-VS02	CC-VS03	CC-VS04	CC-VS05	
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 18/10/2021	DETS Sample No	567964	567965	567966	567967	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE				Chrysotile present as fibre bundles
Asbestos Type ^(S)	PLM Result	N/a	ISO17025				Chrysotile
Asbestos Quantification ^(S)	%	< 0.001	ISO17025				< 0.001
pH	pH Units	N/a	ISO17025	9.6	9.9	10.1	10.1
Arsenic (As)	mg/kg	< 2	ISO17025	8	9	7	8
Barium (Ba)	mg/kg	< 2.5	ISO17025	49	73	44	53
Beryllium (Be)	mg/kg	< 0.5	ISO17025	< 0.5	0.6	< 0.5	< 0.5
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	16	14	24	15
Copper (Cu)	mg/kg	< 4	ISO17025	8	14	9	9
Lead (Pb)	mg/kg	< 3	ISO17025	22	36	18	20
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	6	9	9	7
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	20	21	23	21
Zinc (Zn)	mg/kg	< 3	ISO17025	41	57	35	40

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - Speciated PAHs					
DETS Report No: 21-12103	Date Sampled	05/10/21	05/10/21	05/10/21	05/10/21
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Bermondsey Project	TP / BH No	CC-VS02	CC-VS03	CC-VS04	CC-VS05
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 18/10/2021	DETS Sample No	567964	567965	567966	567967

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	0.31	0.24	< 0.1	0.14
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	0.53	0.28	0.12	0.25
Pyrene	mg/kg	< 0.1	ISO17025	0.45	0.22	< 0.1	0.22
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	0.21	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	0.27	0.14	< 0.1	0.12
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	0.25	0.13	< 0.1	0.12
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	0.10	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	0.17	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	0.12	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	0.12	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	2.5	< 1.6	< 1.6	< 1.6

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 21-12103	Date Sampled	05/10/21	05/10/21	05/10/21	05/10/21
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Bermondsey Project	TP / BH No	CC-VS02	CC-VS03	CC-VS04	CC-VS05
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 18/10/2021	DETS Sample No	567964	567965	567966	567967

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-12103	Date Sampled	05/10/21	05/10/21	05/10/21	05/10/21	
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Bermondsey Project	TP / BH No	CC-VS02	CC-VS03	CC-VS04	CC-VS05	
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 18/10/2021	DETS Sample No	567964	567965	567966	567967	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	7	3	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	3	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 21-12103	
Keltbray Remediation Ltd	
Site Reference: Bermondsey Project	
Project / Job Ref: 6085	
Order No: S-RE6085/00002	
Reporting Date: 18/10/2021	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
& 567964	CC-VS02	None Supplied	None Supplied	2.2	Brown concrete with brick
& 567965	CC-VS03	None Supplied	None Supplied	5.7	Brown concrete with brick
& 567966	CC-VS04	None Supplied	None Supplied	2	Brown concrete with brick
& 567967	CC-VS05	None Supplied	None Supplied	3.9	Brown concrete

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/5}

& samples received in inappropriate containers for hydrocarbon analysis

Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 21-12103

Keltbray Remediation Ltd

Site Reference: Bermondsey Project

Project / Job Ref: 6085

Order No: S-RE6085/00002

Reporting Date: 18/10/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



Dafni Varthali
Keltbray Remediation Ltd
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Surrey
KT10 9TA

Derwentside Environmental Testing Services Ltd
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t: 01622 850410

DETS Report No: 21-12104

Site Reference: Bermondsey Project

Project / Job Ref: 6085

Order No: S-RE6085/00002

Sample Receipt Date: 07/10/2021

Sample Scheduled Date: 07/10/2021

Report Issue Number: 1

Reporting Date: 18/10/2021

Authorised by:

Ela Mvsiara
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate					
DETS Report No: 21-12104	Date Sampled	04/10/21	04/10/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Bermondsey Project	TP / BH No	Campus_VS03	Campus_VS04		
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied		
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied		
Reporting Date: 18/10/2021	DETS Sample No	567968	567969		

Determinand	Unit	RL	Accreditation	Detected	Not Detected		
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Not Detected		
Sample Matrix ^(S)	Material Type	N/a	NONE	Chrysotile present as fibre bundles			
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile			
Asbestos Quantification ^(S)	%	< 0.001	ISO17025	0.001			
pH	pH Units	N/a	MCERTS	8.6	8.5		
Arsenic (As)	mg/kg	< 2	MCERTS	16	19		
Barium (Ba)	mg/kg	< 2.5	MCERTS	123	128		
Beryllium (Be)	mg/kg	< 0.5	MCERTS	0.7	0.7		
W/S Boron	mg/kg	< 1	NONE	< 1	< 1		
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.2	0.2		
Chromium (Cr)	mg/kg	< 2	MCERTS	17	16		
Copper (Cu)	mg/kg	< 4	MCERTS	101	81		
Lead (Pb)	mg/kg	< 3	MCERTS	355	391		
Mercury (Hg)	mg/kg	< 1	MCERTS	1.2	1.3		
Nickel (Ni)	mg/kg	< 3	MCERTS	15	16		
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3		
Vanadium (V)	mg/kg	< 1	MCERTS	37	39		
Zinc (Zn)	mg/kg	< 3	MCERTS	286	279		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-12104	Date Sampled	04/10/21	04/10/21			
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Bermondsey Project	TP / BH No	Campus_VS03	Campus_VS04			
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied			
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied			
Reporting Date: 18/10/2021	DETS Sample No	567968	567969			

Determinand	Unit	RL	Accreditation				
Naphthalene	mg/kg	< 0.1	MCERTS	0.13	0.24		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	0.14	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	0.12	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	0.93	0.51		
Anthracene	mg/kg	< 0.1	MCERTS	0.13	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	1.27	1.09		
Pyrene	mg/kg	< 0.1	MCERTS	1.08	1.02		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.51	0.63		
Chrysene	mg/kg	< 0.1	MCERTS	0.59	0.64		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.62	0.72		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.17	0.31		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.42	0.57		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.24	0.35		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.23	0.36		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	6.6	6.4		



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 21-12104	Date Sampled	04/10/21	04/10/21		
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Bermondsey Project	TP / BH No	Campus_VS03	Campus_VS04		
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied		
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied		
Reporting Date: 18/10/2021	DETS Sample No	567968	567969		

Determinand	Unit	RL	Accreditation			
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	3	
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	7	
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	3	
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	5	
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-12104	Date Sampled	04/10/21	04/10/21			
Keltbray Remediation Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Bermondsey Project	TP / BH No	Campus_VS03	Campus_VS04			
Project / Job Ref: 6085	Additional Refs	None Supplied	None Supplied			
Order No: S-RE6085/00002	Depth (m)	None Supplied	None Supplied			
Reporting Date: 18/10/2021	DETS Sample No	567968	567969			

Determinand	Unit	RL	Accreditation				
Benzene	ug/kg	< 2	MCERTS	< 2	< 2		
Toluene	ug/kg	< 5	MCERTS	< 5	< 5		
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2		
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2		
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2		
MTBE	ug/kg	< 5	MCERTS	< 5	< 5		



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 21-12104	
Keltbray Remediation Ltd	
Site Reference: Bermondsey Project	
Project / Job Ref: 6085	
Order No: S-RE6085/00002	
Reporting Date: 18/10/2021	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
567968	Campus VS03	None Supplied	None Supplied	10	Brown gravelly sand with stones and brick
567969	Campus VS04	None Supplied	None Supplied	11.6	Brown gravelly sand with stones and concrete

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/5}

Unsuitable Sample ^{U/5}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 21-12104
Keltbray Remediation Ltd
Site Reference: Bermondsey Project
Project / Job Ref: 6085
Order No: S-RE6085/00002
Reporting Date: 18/10/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received