



ANALYTICAL TEST REPORT

Contract no: 70509
Contract name: Hills R.C
Client reference: -
Clients name: Soil Environment Services
Clients address: Unit 8
Stocksfield Hall
Stocksfield
NE43 7TN

Samples received: 09 March 2018

Analysis started: 09 March 2018

Analysis completed 16 March 2018

Report issued: 16 March 2018

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.
BTEX compounds are identified by retention time only and may include interference from co-eluting compounds.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by:

Dave Bowerbank
Customer Services Co-ordinator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
70509-1	BH1	0.10-0.75	Clay with Gravel	-	-	14.8
70509-2	BH2	0.15-0.25	Sand & Clay with Gravel & Brick	-	-	13.3
70509-3	BH3	0.20-0.40	Sand & Clay with Gravel & Brick	-	-	11.6
70509-4	BH4	0.20-0.70	Sandy Clay with Gravel	-	-	11.9

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SOILS

Lab number Sample id Depth (m) Date sampled			70509-1 BH1 0.10-0.75 06/03/2018	70509-2 BH2 0.15-0.25 06/03/2018	70509-3 BH3 0.20-0.40 06/03/2018	70509-4 BH4 0.20-0.70 06/03/2018
Test	Method	Units				
Arsenic (total)	CE127 ^M	mg/kg As	18	16	14	20
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3	0.2	<0.2	<0.2
Chromium (total)	CE127 ^M	mg/kg Cr	64	101	95	82
Copper (total)	CE127 ^M	mg/kg Cu	23	17	23	14
Lead (total)	CE127 ^M	mg/kg Pb	189	192	143	49
Mercury (total)	CE127 ^M	mg/kg Hg	0.8	<0.5	0.7	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	29	23	22	24
Selenium (total)	CE127 ^M	mg/kg Se	1.0	0.6	0.7	1.1
Zinc (total)	CE127 ^M	mg/kg Zn	110	144	85	66
pH	CE004 ^M	units	8.8	8.3	8.0	5.0
Total Organic Carbon (TOC)	CE072 ^M	% w/w C	0.95	0.91	1.84	0.24
Estimate of OMC (calculated from TOC)	CE072 ^M	% w/w	1.64	1.57	3.17	0.41
PAH						
Naphthalene	CE087 ^M	mg/kg	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	CE087 ^M	mg/kg	<0.01	<0.01	0.02	<0.01
Acenaphthene	CE087 ^M	mg/kg	<0.01	<0.01	<0.01	<0.01
Fluorene	CE087 ^U	mg/kg	<0.01	0.02	<0.01	<0.01
Phenanthrene	CE087 ^M	mg/kg	0.05	0.41	0.11	<0.02
Anthracene	CE087 ^U	mg/kg	0.03	0.09	0.05	<0.02
Fluoranthene	CE087 ^M	mg/kg	0.29	0.93	0.55	<0.02
Pyrene	CE087 ^M	mg/kg	0.25	0.76	0.55	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	0.16	0.42	0.34	0.02
Chrysene	CE087 ^M	mg/kg	0.14	0.40	0.34	<0.01
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.17	0.47	0.48	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.06	0.19	0.19	<0.02
Benzo(a)pyrene	CE087 ^U	mg/kg	0.14	0.35	0.39	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.08	0.21	0.26	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	0.06	0.07	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.08	0.23	0.30	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	1.45	4.55	3.65	<0.27
BTEX & TPH						
MTBE	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
Benzene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
Toluene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE057 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1

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SOILS

Lab number Sample id Depth (m) Date sampled			70509-1 BH1 0.10-0.75 06/03/2018	70509-2 BH2 0.15-0.25 06/03/2018	70509-3 BH3 0.20-0.40 06/03/2018	70509-4 BH4 0.20-0.70 06/03/2018
Test	Method	Units				
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	1	2	1	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	2	3	3	1
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	6	<4	<4	5
EPH Aliphatic (>C12-C16)	CE068	mg/kg	9	5	7	7
EPH Aliphatic (>C16-C35)	CE068	mg/kg	33	61	27	19
EPH Aliphatic (>C35-C44)	CE068	mg/kg	<10	10	<10	<10
Volatiles						
Dichlorodifluoromethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Chloromethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Vinyl chloride	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Bromomethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Chloroethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Trichlorofluoromethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Cis-1,2-Dichloroethene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Trans-1,2-Dichloroethene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Chloroform	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,1,1-Trichloroethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,2-Dichloroethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Carbon tetrachloride	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Trichloroethene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,3-Dichloropropane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Dibromomethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,1-Dichloro-1-propene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,3-Dichloropropene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Chlorobenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,1,1,2-Tetrachloroethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Styrene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Tribromomethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01

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SOILS

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Test	Method	Units				
Isopropylbenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,2,3-Trichloropropane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Bromobenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Propylbenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
4-Chlorotoluene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,3,5-Trimethylbenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
tert-Butylbenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,2,4-Trimethylbenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
sec-Butylbenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,4-Dichlorobenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
4-Isopropyltoluene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,2-Dichlorobenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Butylbenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,2-Dibromo-3-chloropropane	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,2,4-Trichlorobenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
1,2,3-Trichlorobenzene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Hexachloro-1,3-butadiene	CE066	mg/kg	<0.01	<0.01	<0.01	<0.01
Semi-volatiles						
N-Nitrosodimethylamine	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Bis(2-chloroethyl)ether	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Methylphenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Bis(2-chloroisopropyl)ether	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Methylphenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
N-Nitrosodi-n-propylamine	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachloroethane	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Nitrobenzene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Isophorone	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Nitrophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Bis(2-chloroethoxy)methane	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4-Dichlorophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Chloroaniline	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1

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SOILS

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Test	Method	Units				
4-Chloro-3-methylphenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Chloronaphthalene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Nitroaniline	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethyl phthalate	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	CE065	mg/kg	0.2	0.2	<0.1	<0.1
3-Nitroaniline	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Nitrophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzofuran	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Diethyl phthalate	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Chlorophenylphenyl ether	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Nitroaniline	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Methyl-4,6-dinitrophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Azobenzene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Bromophenylphenyl ether	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Carbazole	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Di-n-butyl phthalate	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Butylbenzyl phthalate	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Bis(2-ethylhexyl)phthalate	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Di-n-octyl phthalate	CE065	mg/kg	<0.1	<0.1	<0.1	<0.1
Subcontracted analysis						
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD

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METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	Wet	M	-	units
CE072	Total Organic Carbon (TOC)	Removal of IC by acidification, Carbon Analyser	Dry	M	0.1	% w/w C
CE072	Estimate of OMC (calculated from TOC)	Calculation from Total Organic Carbon	Dry	M	0.1	% w/w
CE087	Naphthalene	Solvent extraction, GC-MS	Wet	M	0.01	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	Wet	M	0.01	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	Wet	M	0.01	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	Wet	U	0.01	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	Wet	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	Wet	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	Wet	M	0.01	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	Wet	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	Wet		0.27	mg/kg
CE057	MTBE	Headspace GC-FID	Wet	U	0.02	mg/kg
CE057	Benzene	Headspace GC-FID	Wet	U	0.01	mg/kg
CE057	Toluene	Headspace GC-FID	Wet	U	0.01	mg/kg
CE057	Ethylbenzene	Headspace GC-FID	Wet	U	0.01	mg/kg
CE057	m & p-Xylene	Headspace GC-FID	Wet	U	0.02	mg/kg
CE057	o-Xylene	Headspace GC-FID	Wet	U	0.01	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	Wet		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	Wet		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	Wet		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	Wet		1	mg/kg

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METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	Wet		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	Wet		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	Wet		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	Wet		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	Wet		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	Wet		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	Wet		10	mg/kg
CE066	Volatile Organic Compounds	Headspace GC-MS	Wet		0.01	mg/kg
CE065	Semi-volatile Organic Compounds	Solvent extraction, GC-MS	Wet		0.1	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

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DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
IT	Sample not cooled
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
70509-1	BH1	0.10-0.75	N	
70509-2	BH2	0.15-0.25	N	
70509-3	BH3	0.20-0.40	N	
70509-4	BH4	0.20-0.70	N	