

APPENDIX A: Site Redevelopment Plans





Ground Investigation Location Plan - Not to Scale

Your Environment

Chilgrove Business Centre, Chilgrove, Nr Chichester, PO18 9HU
 Tel: 01243 787150
 Email: info@yourenvironment.org

Site Name:

Southmere Farm, The Mallards,
 Havant, PO9 1SS

Client:

Knightsgate UK

Date:

May-19

Job No:

YE7106.1

APPENDIX B: Contamination Laboratory Results





2531



ANALYTICAL TEST REPORT

Contract no: 76310
Contract name: Southmere Farm
Client reference: YE6611
Clients name: YourEnvironment
Clients address: Chilgrove Business Centre
Chilgrove
West Sussex
PO18 9HU
Samples received: 23 January 2019
Analysis started: 23 January 2019
Analysis completed: 31 January 2019
Report issued: 31 January 2019

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
76310-1	TP01	0.30	Clay with Gravel	-	-	18.6
76310-2	TP01	0.75	Clay with Gravel	-	-	20.6
76310-3	TP02	0.15	Clay with Gravel	-	-	17.6
76310-4	TP02	0.75	Clay with Gravel	-	-	19.5
76310-5	TP03	0.50	Clay with Gravel	-	-	17.1
76310-6	TP03	1.00	Clay with Gravel	-	-	19.4
76310-7	TP04	0.30	Sandy Clay with Gravel	-	-	19.5
76310-8	TP04	0.80	Clay with Gravel	-	-	55.2

Chemtech Environmental Limited

SOILS

Lab number			76310-1	76310-2	76310-3	76310-4	76310-5	76310-6
Sample id			TP01	TP01	TP02	TP02	TP03	TP03
Depth (m)			0.30	0.75	0.15	0.75	0.50	1.00
Date sampled			21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
Test	Method	Units						
Arsenic (total)	CE127 ^N	mg/kg As	9.5	7.6	7.6	9.6	5.5	11
Cadmium (total)	CE127 ^N	mg/kg Cd	0.2	0.4	<0.2	0.7	<0.2	0.2
Chromium (total)	CE127 ^N	mg/kg Cr	58	87	50	56	47	69
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^N	mg/kg Cu	16	16	12	16	7.9	17
Lead (total)	CE127 ^N	mg/kg Pb	48	31	17	27	17	20
Mercury (total)	CE127 ^N	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^N	mg/kg Ni	26	22	22	43	13	36
Selenium (total)	CE127 ^N	mg/kg Se	0.8	0.7	0.6	1.4	0.4	0.9
Zinc (total)	CE127 ^N	mg/kg Zn	63	116	51	78	35	65
pH	CE004 ^N	units	7.9	7.2	7.0	7.2	7.1	7.4
Ammonia	CE144	mg/kg N	11	-	-	-	9.4	-
Nitrate (2:1 water soluble)	CE049 ^U	mg/l NO ₃	52	-	-	-	8.8	-
Nitrite (2:1 water soluble)	CE049	mg/l NO ₂	<10*	-	-	-	<1	-
Sulphate (2:1 water soluble)	CE061 ^N	mg/l SO ₄	21	13	8.2	18	12	151
Cyanide (total)	CE077	mg/kg CN	<1	<1	<1	<1	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Organic Carbon (TOC)	CE072 ^N	% w/w C	0.62	0.53	0.34	0.20	0.47	0.22
Estimate of OMC (calculated from TOC)	CE072 ^N	% w/w	1.07	0.91	0.59	0.34	0.81	0.38
PAH								
Naphthalene	CE087 ^N	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^N	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^N	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^N	mg/kg	1.85	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	0.55	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^N	mg/kg	2.68	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	CE087 ^N	mg/kg	2.13	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	1.00	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	CE087 ^N	mg/kg	1.06	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^N	mg/kg	1.65	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^N	mg/kg	0.68	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	1.00	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^N	mg/kg	0.67	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^N	mg/kg	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^N	mg/kg	0.64	<0.02	<0.02	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	14.4	<0.34	<0.34	<0.34	<0.34	<0.34
BTEX & TPH								
MTBE	CE057 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Chemtech Environmental Limited

SOILS

Lab number			76310-1	76310-2	76310-3	76310-4	76310-5	76310-6
Sample id			TP01	TP01	TP02	TP02	TP03	TP03
Depth (m)			0.30	0.75	0.15	0.75	0.50	1.00
Date sampled			21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
Test	Method	Units						
Ethylbenzene	CE057 ^u	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE057 ^u	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE057 ^u	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	7	<1	<1	<1	<1	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	6	<1	<1	<1	<1	<1
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	1	<1	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	20	<4	<4	<4	<4	<4
EPH Aliphatic (>C35-C44)	CE068	mg/kg	<10	<10	<10	<10	<10	<10
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	-	NAD	-	NAD	-

*Higher limit of detection quoted due to sample interference.

Chemtech Environmental Limited

SOILS

Lab number			76310-7	76310-8
Sample id			TP04	TP04
Depth (m)			0.30	0.80
Date sampled			21/01/2019	21/01/2019
Test	Method	Units		
Arsenic (total)	CE127 ^N	mg/kg As	8.5	3.7
Cadmium (total)	CE127 ^N	mg/kg Cd	0.7	6.2
Chromium (total)	CE127 ^N	mg/kg Cr	91	78
Chromium (VI)	CE146	mg/kg CrVI	<1	<1
Copper (total)	CE127 ^N	mg/kg Cu	85	97
Lead (total)	CE127 ^N	mg/kg Pb	123	317
Mercury (total)	CE127 ^N	mg/kg Hg	<0.5	<0.5
Nickel (total)	CE127 ^N	mg/kg Ni	21	25
Selenium (total)	CE127 ^N	mg/kg Se	0.5	2.0
Zinc (total)	CE127 ^N	mg/kg Zn	234	497
pH	CE004 ^N	units	8.6	8.6
Ammonia	CE144	mg/kg N	-	21
Nitrate (2:1 water soluble)	CE049 ^U	mg/l NO ₃	-	27
Nitrite (2:1 water soluble)	CE049	mg/l NO ₂	-	11
Sulphate (2:1 water soluble)	CE061 ^N	mg/l SO ₄	550	146
Cyanide (total)	CE077	mg/kg CN	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	21
Total Organic Carbon (TOC)	CE072 ^N	% w/w C	1.89	6.87
Estimate of OMC (calculated from TOC)	CE072 ^N	% w/w	3.26	11.84
PAH				
Naphthalene	CE087 ^N	mg/kg	0.18	<0.02
Acenaphthylene	CE087 ^N	mg/kg	0.14	<0.02
Acenaphthene	CE087 ^N	mg/kg	0.15	0.38
Fluorene	CE087 ^U	mg/kg	0.26	0.15
Phenanthrene	CE087 ^N	mg/kg	3.03	1.29
Anthracene	CE087 ^U	mg/kg	0.64	0.42
Fluoranthene	CE087 ^N	mg/kg	3.68	2.79
Pyrene	CE087 ^N	mg/kg	2.86	2.24
Benzo(a)anthracene	CE087 ^U	mg/kg	1.05	0.91
Chrysene	CE087 ^N	mg/kg	1.34	0.93
Benzo(b)fluoranthene	CE087 ^N	mg/kg	1.95	1.44
Benzo(k)fluoranthene	CE087 ^N	mg/kg	0.83	0.45
Benzo(a)pyrene	CE087 ^U	mg/kg	1.05	0.72
Indeno(123cd)pyrene	CE087 ^N	mg/kg	0.72	0.54
Dibenz(ah)anthracene	CE087 ^N	mg/kg	0.14	0.19
Benzo(ghi)perylene	CE087 ^N	mg/kg	0.74	0.47
PAH (total of USEPA 16)	CE087	mg/kg	18.8	12.9
BTEX & TPH				
MTBE	CE057 ^U	mg/kg	<0.02	<0.02
Benzene	CE057 ^U	mg/kg	<0.01	<0.01
Toluene	CE057 ^U	mg/kg	<0.01	<0.01

Chemtech Environmental Limited

SOILS

Lab number			76310-7	76310-8
Sample id			TP04	TP04
Depth (m)			0.30	0.80
Date sampled			21/01/2019	21/01/2019
Test	Method	Units		
Ethylbenzene	CE057 ^U	mg/kg	<0.01	<0.01
m & p-Xylene	CE057 ^U	mg/kg	<0.02	<0.02
o-Xylene	CE057 ^U	mg/kg	<0.01	<0.01
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	10	7
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	7	5
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	56	237
EPH Aliphatic (>C35-C44)	CE068	mg/kg	31	129
Subcontracted analysis				
Asbestos (qualitative)	\$	-	Chrysotile	NAD

*Higher limit of detection quoted due to sample interference.

Chemtech Environmental Limited

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
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
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
CE144	Ammonia	KCl extraction, Colorimetry	Wet		1	mg/kg N
CE049	Nitrate (2:1 water soluble)	Aqueous extraction, IC-COND	Dry	U	1	mg/l NO ₃
CE049	Nitrite (2:1 water soluble)	Aqueous extraction, IC-COND	Dry		1	mg/l NO ₂
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	M	10	mg/l SO ₄
CE077	Cyanide (total)	Extraction, Continuous Flow Colorimetry	Wet		1	mg/kg CN
CE078	Phenols (total)	Extraction, Continuous Flow Colorimetry	Wet		0.5	mg/kg PhOH
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	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	Wet	U	0.02	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	0.03	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	0.03	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		0.34	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

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
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
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
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

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)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
76310-1	TP01	0.30	N	
76310-2	TP01	0.75	N	
76310-3	TP02	0.15	N	
76310-4	TP02	0.75	N	
76310-5	TP03	0.50	N	
76310-6	TP03	1.00	N	
76310-7	TP04	0.30	N	
76310-8	TP04	0.80	N	



2531



ANALYTICAL TEST REPORT

Contract no: 76310(1)

Contract name: Southmere Farm

Client reference: YE6611

Clients name: YourEnvironment

Clients address: Chilgrove Business Centre
Chilgrove
West Sussex
PO18 9HU

Samples received: 23 January 2019

Analysis started: 23 January 2019

Analysis completed: 18 March 2019

Report issued: 18 March 2019

This is a supplementary report to report number 76310 issued 30 January 2019.

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:



Karan Campbell
Director

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
76310-1	TP01	0.30	Clay with Gravel	-	-	18.6
76310-2	TP01	0.75	Clay with Gravel	-	-	20.6
76310-3	TP02	0.15	Clay with Gravel	-	-	17.6
76310-4	TP02	0.75	Clay with Gravel	-	-	19.5
76310-5	TP03	0.50	Clay with Gravel	-	-	17.1
76310-6	TP03	1.00	Clay with Gravel	-	-	19.4
76310-7	TP04	0.30	Sandy Clay with Gravel	-	-	19.5
76310-8	TP04	0.80	Clay with Gravel	-	-	55.2

Chemtech Environmental Limited

SOILS

Lab number			76310-1	76310-2	76310-3	76310-4	76310-5	76310-6
Sample Id			TP01	TP01	TP02	TP02	TP03	TP03
Depth (m)			0.30	0.75	0.15	0.75	0.50	1.00
Date sampled			21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
Test	Method	Units						
Arsenic (total)	CE127 ^H	mg/kg As	9.5	7.6	7.6	9.6	5.5	11
Cadmium (total)	CE127 ^H	mg/kg Cd	0.2	0.4	<0.2	0.7	<0.2	0.2
Chromium (total)	CE127 ^H	mg/kg Cr	58	87	50	56	47	69
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^H	mg/kg Cu	16	16	12	16	7.9	17
Lead (total)	CE127 ^H	mg/kg Pb	48	31	17	27	17	20
Mercury (total)	CE127 ^H	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^H	mg/kg Ni	26	22	22	43	13	36
Selenium (total)	CE127 ^H	mg/kg Se	0.8	0.7	0.6	1.4	0.4	0.9
Zinc (total)	CE127 ^H	mg/kg Zn	63	116	51	78	35	65
pH	CE004 ^H	units	7.9	7.2	7.0	7.2	7.1	7.4
Ammonia	CE144	mg/kg N	11	-	-	-	9.4	-
Nitrate (2:1 water soluble)	CE049 ^V	mg/l NO ₃	52	-	-	-	8.8	-
Nitrite (2:1 water soluble)	CE049	mg/l NO ₂	<10*	-	-	-	<1	-
Sulphate (2:1 water soluble)	CE061 ^H	mg/l SO ₄	21	13	8.2	18	12	151
Cyanide (total)	CE077	mg/kg CN	<1	<1	<1	<1	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Organic Carbon (TOC)	CE072 ^H	% w/w C	0.62	0.53	0.34	0.20	0.47	0.22
Estimate of OMC (calculated from TOC)	CE072 ^H	% w/w	1.07	0.91	0.59	0.34	0.81	0.38
PAH								
Naphthalene	CE087 ^H	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^H	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^H	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^V	mg/kg	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^H	mg/kg	1.85	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	CE087 ^V	mg/kg	0.55	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^H	mg/kg	2.68	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	CE087 ^H	mg/kg	2.13	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	CE087 ^V	mg/kg	1.00	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	CE087 ^H	mg/kg	1.06	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^H	mg/kg	1.65	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^H	mg/kg	0.68	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^V	mg/kg	1.00	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^H	mg/kg	0.67	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^H	mg/kg	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^H	mg/kg	0.64	<0.02	<0.02	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	14.4	<0.34	<0.34	<0.34	<0.34	<0.34
BTEX & TPH								
MTBE	CE057 ^V	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE057 ^V	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE057 ^V	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Chemtech Environmental Limited

SOILS

Lab number			76310-1	76310-2	76310-3	76310-4	76310-5	76310-6
Sample id			TP01	TP01	TP02	TP02	TP03	TP03
Depth (m)			0.30	0.75	0.15	0.75	0.50	1.00
Date sampled			21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019	21/01/2019
Test	Method	Units						
Ethylbenzene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE057 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	7	<1	<1	<1	<1	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	6	<1	<1	<1	<1	<1
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	1	<1	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	20	<4	<4	<4	<4	<4
EPH Aliphatic (>C35-C44)	CE068	mg/kg	<10	<10	<10	<10	<10	<10
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	-	NAD	-	NAD	-
Asbestos (quantitative)	\$	% w/w	-	-	-	-	-	-

*Higher limit of detection quoted due to sample interference.

Chemtech Environmental Limited

SOILS

Lab number			76310-7	76310-8
Sample Id			TP04	TP04
Depth (m)			0.30	0.80
Date sampled			21/01/2019	21/01/2019
Test	Method	Units		
Arsenic (total)	CE127 ^H	mg/kg As	8.5	3.7
Cadmium (total)	CE127 ^H	mg/kg Cd	0.7	6.2
Chromium (total)	CE127 ^H	mg/kg Cr	91	78
Chromium (VI)	CE146	mg/kg CrVI	<1	<1
Copper (total)	CE127 ^H	mg/kg Cu	85	97
Lead (total)	CE127 ^H	mg/kg Pb	123	317
Mercury (total)	CE127 ^H	mg/kg Hg	<0.5	<0.5
Nickel (total)	CE127 ^H	mg/kg Ni	21	25
Selenium (total)	CE127 ^H	mg/kg Se	0.5	2.0
Zinc (total)	CE127 ^H	mg/kg Zn	234	497
pH	CE004 ^H	units	8.6	8.6
Ammonia	CE144	mg/kg N	-	21
Nitrate (2:1 water soluble)	CE049 ^V	mg/l NO ₃	-	27
Nitrite (2:1 water soluble)	CE049	mg/l NO ₂	-	11
Sulphate (2:1 water soluble)	CE061 ^H	mg/l SO ₄	550	146
Cyanide (total)	CE077	mg/kg CN	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	21
Total Organic Carbon (TOC)	CE072 ^H	% w/w C	1.89	6.87
Estimate of OMC (calculated from TOC)	CE072 ^H	% w/w	3.26	11.84
PAH				
Naphthalene	CE087 ^H	mg/kg	0.18	<0.02
Acenaphthylene	CE087 ^H	mg/kg	0.14	<0.02
Acenaphthene	CE087 ^H	mg/kg	0.15	0.38
Fluorene	CE087 ^V	mg/kg	0.26	0.15
Phenanthrene	CE087 ^H	mg/kg	3.03	1.29
Anthracene	CE087 ^V	mg/kg	0.64	0.42
Fluoranthene	CE087 ^H	mg/kg	3.68	2.79
Pyrene	CE087 ^H	mg/kg	2.86	2.24
Benzo(a)anthracene	CE087 ^V	mg/kg	1.05	0.91
Chrysene	CE087 ^H	mg/kg	1.34	0.93
Benzo(b)fluoranthene	CE087 ^H	mg/kg	1.95	1.44
Benzo(k)fluoranthene	CE087 ^H	mg/kg	0.83	0.45
Benzo(a)pyrene	CE087 ^V	mg/kg	1.05	0.72
Indeno(123cd)pyrene	CE087 ^H	mg/kg	0.72	0.54
Dibenz(ah)anthracene	CE087 ^H	mg/kg	0.14	0.19
Benzo(ghi)perylene	CE087 ^H	mg/kg	0.74	0.47
PAH (total of USEPA 16)	CE087	mg/kg	18.8	12.9
BTEX & TPH				
MTBE	CE057 ^V	mg/kg	<0.02	<0.02
Benzene	CE057 ^V	mg/kg	<0.01	<0.01
Toluene	CE057 ^V	mg/kg	<0.01	<0.01

Chemtech Environmental Limited

SOILS

Lab number			76310-7	76310-8
Sample id			TP04	TP04
Depth (m)			0.30	0.80
Date sampled			21/01/2019	21/01/2019
Test	Method	Units		
Ethylbenzene	CE057 ^U	mg/kg	<0.01	<0.01
m & p-Xylene	CE057 ^U	mg/kg	<0.02	<0.02
o-Xylene	CE057 ^U	mg/kg	<0.01	<0.01
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	10	7
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	7	5
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	56	237
EPH Aliphatic (>C35-C44)	CE068	mg/kg	31	129
Subcontracted analysis				
Asbestos (qualitative)	\$	-	Chrysotile	NAD
Asbestos (quantitative)	\$	% w/w	0.009	-

*Higher limit of detection quoted due to sample interference.

Chemtech Environmental Limited

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
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
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
CE144	Ammonia	KCl extraction, Colorimetry	Wet		1	mg/kg N
CE049	Nitrate (2:1 water soluble)	Aqueous extraction, IC-COND	Dry	U	1	mg/l NO ₃
CE049	Nitrite (2:1 water soluble)	Aqueous extraction, IC-COND	Dry		1	mg/l NO ₂
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	M	10	mg/l SO ₄
CE077	Cyanide (total)	Extraction, Continuous Flow Colorimetry	Wet		1	mg/kg CN
CE078	Phenols (total)	Extraction, Continuous Flow Colorimetry	Wet		0.5	mg/kg PhOH
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	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	Wet	U	0.02	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	0.03	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	0.03	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		0.34	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

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
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
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
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-
\$	Asbestos (quantitative)	HSG 248, Microscopy & Gravimetry	Dry	U	0.001	% w/w

Chemtech Environmental Limited

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)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
76310-1	TP01	0.30	N	
76310-2	TP01	0.75	N	
76310-3	TP02	0.15	N	
76310-4	TP02	0.75	N	
76310-5	TP03	0.50	N	
76310-6	TP03	1.00	N	
76310-7	TP04	0.30	N	
76310-8	TP04	0.80	N	



2531



ANALYTICAL TEST REPORT

Contract no: 76638
Contract name: Southmere Farm
Client reference: YE6610
Clients name: YourEnvironment
Clients address: Chilgrove Business Centre
Chilgrove
West Sussex
PO18 9HU
Samples received: 08 February 2019
Analysis started: 08 February 2019
Analysis completed: 14 February 2019
Report issued: 14 February 2019

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

Approved by:



Dave Bowerbank
Customer Services Co-ordinator

Chemtech Environmental Limited

WATERS

Lab number			76638-1
Sample id			BH01
Depth (m)			1.12
Date sampled			06/02/2019
Time sampled			09:30
Test	Method	Units	
Arsenic (dissolved)	CE128 ^U	µg/l As	0.63
Barium (dissolved)	CE128 ^U	µg/l Ba	82.8
Beryllium (dissolved)	CE128 ^U	µg/l Be	<0.06
Boron (dissolved)	CE128 ^U	µg/l B	126
Cadmium (dissolved)	CE128 ^U	µg/l Cd	<0.07
Calcium (dissolved)	CE128 ^U	mg/l Ca	94.32
Chromium (dissolved)	CE128 ^U	µg/l Cr	<0.2
Copper (dissolved)	CE128 ^U	µg/l Cu	2.4
Mercury (dissolved)	CE128 ^U	µg/l Hg	<0.008
Nickel (dissolved)	CE128 ^U	µg/l Ni	2.1
Selenium (dissolved)	CE128 ^U	µg/l Se	7.92
Vanadium (dissolved)	CE128 ^U	µg/l V	1.2
Zinc (dissolved)	CE128 ^U	µg/l Zn	5
Hardness (by calculation)	CE121	mg/l CaCO ₃	289
pH	CE004 ^U	units	7.5
Electrical conductivity	CE007 ^U	µS/cm	914
Ammonia	CE012 ^U	µg/l N	249
Nitrate	CE049 ^U	mg/l NO ₃	54.4
Nitrite	CE049 ^U	mg/l NO ₂	2.0
Sulphate	CE049 ^U	mg/l SO ₄	63
Cyanide (total)	CE147	µg/l CN	<1
Phenols (total)	CE148	µg/l PhOH	<10
Total Organic Carbon	CE071 ^U	mg/l C	228
PAH			
Naphthalene	CE051	µg/l	<0.1
Acenaphthylene	CE051	µg/l	<0.1
Acenaphthene	CE051	µg/l	<0.1
Fluorene	CE051	µg/l	<0.1
Phenanthrene	CE051	µg/l	<0.1
Anthracene	CE051	µg/l	<0.1
Fluoranthene	CE051	µg/l	2.3
Pyrene	CE051	µg/l	2.3
Benzo(a)anthracene	CE051	µg/l	<0.1
Chrysene	CE051	µg/l	<0.1
Benzo(b)fluoranthene	CE051	µg/l	<0.1
Benzo(k)fluoranthene	CE051	µg/l	<0.1
Benzo(a)pyrene	CE051	µg/l	<0.1
Indeno(123cd)pyrene	CE051	µg/l	<0.1
Dibenz(ah)anthracene	CE051	µg/l	<0.1
Benzo(ghi)perylene	CE051	µg/l	<0.1

Chemtech Environmental Limited

WATERS

Lab number			76638-1
Sample id			BH01
Depth (m)			1.12
Date sampled			06/02/2019
Time sampled			09:30
Test	Method	Units	
PAH (total of USEPA 16)	CE051	µg/l	4.5
BTEX & TPH			
MTBE	CE057 ^U	µg/l	<1
Benzene	CE057 ^U	µg/l	<1
Toluene	CE057 ^U	µg/l	<1
Ethylbenzene	CE057 ^U	µg/l	<1
m & p-Xylene	CE057 ^U	µg/l	<1
o-Xylene	CE057 ^U	µg/l	<1
VPH Aromatic (>EC5-EC7)	CE175	µg/l	<1
VPH Aromatic (>EC7-EC8)	CE175	µg/l	<1
VPH Aromatic (>EC8-EC10)	CE175	µg/l	<1
EPH Aromatic (>EC10-EC12)	CE161	µg/l	<1
EPH Aromatic (>EC12-EC16)	CE161	µg/l	1
EPH Aromatic (>EC16-EC21)	CE161	µg/l	6
EPH Aromatic (>EC21-EC35)	CE161	µg/l	3
EPH Aromatic (>EC35-EC44)	CE161	µg/l	<1
VPH Aliphatic (>C5-C6)	CE175	µg/l	<1
VPH Aliphatic (>C6-C8)	CE175	µg/l	<1
VPH Aliphatic (>C8-C10)	CE175	µg/l	<1
EPH Aliphatic (>C10-C12)	CE161	µg/l	2
EPH Aliphatic (>C12-C16)	CE161	µg/l	69
EPH Aliphatic (>C16-C35)	CE161	µg/l	505
EPH Aliphatic (>C35-C44)	CE161	µg/l	11

Chemtech Environmental Limited

METHOD DETAILS

METHOD	WATERS	METHOD SUMMARY	STATUS	LOD	UNITS
CE128	Arsenic (dissolved)	ICP-MS	U	0.06	µg/l As
CE128	Barium (dissolved)	ICP-MS	U	0.6	µg/l Ba
CE128	Beryllium (dissolved)	ICP-MS	U	0.06	µg/l Be
CE128	Boron (dissolved)	ICP-MS	U	6	µg/l B
CE128	Cadmium (dissolved)	ICP-MS	U	0.07	µg/l Cd
CE128	Chromium (dissolved)	ICP-MS	U	0.2	µg/l Cr
CE128	Copper (dissolved)	ICP-MS	U	0.4	µg/l Cu
CE128	Lead (dissolved)	ICP-MS	U	0.2	µg/l Pb
CE128	Mercury (dissolved)	ICP-MS	U	0.008	µg/l Hg
CE128	Nickel (dissolved)	ICP-MS	U	0.5	µg/l Ni
CE128	Selenium (dissolved)	ICP-MS	U	0.07	µg/l Se
CE128	Vanadium (dissolved)	ICP-MS	U	0.3	µg/l V
CE128	Zinc (dissolved)	ICP-MS	U	1	µg/l Zn
CE121	Hardness (by calculation)	ICP-MS		1	mg/l CaCO ₃
CE004	pH	Based on BS 1377, pH Meter	U	-	units
CE007	Electrical conductivity	Conductivity Meter	U	10	µS/cm
CE012	Ammonia	Colorimetry	U	10	µg/l N
CE049	Nitrate	Ion Chromatography	U	1	mg/l NO ₃
CE049	Nitrite	Ion Chromatography	U	1	mg/l NO ₂
CE049	Sulphate	Ion Chromatography	U	10	mg/l SO ₄
CE147	Cyanide (total)	Continuous Flow Colorimetry		20	µg/l CN
CE148	Phenols (total)	Continuous Flow Colorimetry		10	µg/l PhOH
CE071	Total Organic Carbon	TOC analyser	U	5	mg/l C
CE051	Naphthalene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluorene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Phenanthrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Chrysene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(b)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(k)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Indeno(123cd)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Dibenz(ah)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(ghi)perylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	PAH (total of USEPA 16)	Solvent extraction, GC-MS		1.6	µg/l
CE057	MTBE	Headspace GC-FID	U	2	µg/l
CE057	Benzene	Headspace GC-FID	U	1	µg/l
CE057	Toluene	Headspace GC-FID	U	1	µg/l
CE057	Ethylbenzene	Headspace GC-FID	U	1	µg/l

Chemtech Environmental Limited

METHOD DETAILS

METHOD	WATERS	METHOD SUMMARY	STATUS	LOD	UNITS
CE057	m & p-Xylene	Headspace GC-FID	U	2	µg/l
CE057	o-Xylene	Headspace GC-FID	U	1	µg/l
CE175	VPH Aromatic (>EC5-EC7)	Headspace GC-FID		1	µg/l
CE175	VPH Aromatic (>EC7-EC8)	Headspace GC-FID		1	µg/l
CE175	VPH Aromatic (>EC8-EC10)	Headspace GC-FID		1	µg/l
CE161	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID		1	µg/l
CE175	VPH Aliphatic (>C5-C6)	Headspace GC-FID		1	µg/l
CE175	VPH Aliphatic (>C6-C8)	Headspace GC-FID		1	µg/l
CE175	VPH Aliphatic (>C8-C10)	Headspace GC-FID		1	µg/l
CE161	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID		1	µg/l

Chemtech Environmental Limited

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)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
76638-1	BH01	1.12	Y	Nitrate, Nitrite (EHT)

APPENDIX C: Validation Laboratory Certificates





2531



ANALYTICAL TEST REPORT

Contract no: 78589

Contract name: Southmere Farm

Client reference: YE7106

Clients name: YourEnvironment

Clients address: Chilgrove Business Centre
Chilgrove
West Sussex
PO18 9HU

Samples received: 03 May 2019

Analysis started: 07 May 2019

Analysis completed: 14 May 2019

Report issued: 14 May 2019

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:



Karan Campbell
Director

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
78589-1	TP01/1	0.80	Sandy Clay with Gravel & Roots	-	-	22.7
78589-2	TP01/2	0.80	Sandy Clay with Gravel	-	-	18.5
78589-3	TP01/3	0.80	Sandy Clay with Gravel	-	-	22.8
78589-4	TP01/4	0.80	Sandy Clay with Gravel & Roots	-	-	20.8
78589-5	TP01/5	1.00	Sandy Clay with Gravel & Roots	-	-	15.5

Chemtech Environmental Limited

SOILS

Lab number			78589-1	78589-2	78589-3	78589-4	78589-5
Sample Id			TP01/1	TP01/2	TP01/3	TP01/4	TP01/5
Depth (m)			0.80	0.80	0.80	0.80	1.00
Date sampled			01/05/2019	01/05/2019	01/05/2019	01/05/2019	01/05/2019
Test	Method	Units					
Arsenic (total)	CE127 ^H	mg/kg As	6.1	6.4	4.7	6.1	5.8
Cadmium (total)	CE127 ^H	mg/kg Cd	0.4	0.2	<0.2	0.3	<0.2
Chromium (total)	CE127 ^H	mg/kg Cr	109	146	91	123	147
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1
Copper (total)	CE127 ^H	mg/kg Cu	38	14	14	17	11
Lead (total)	CE127 ^H	mg/kg Pb	79	73	52	77	21
Mercury (total)	CE127 ^H	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^H	mg/kg Ni	16	16	16	17	16
Selenium (total)	CE127 ^H	mg/kg Se	1.0	0.9	1.0	1.2	0.8
Zinc (total)	CE127 ^H	mg/kg Zn	84	40	45	49	34
pH	CE004 ^H	units	8.7	9.0	8.9	9.0	8.7
Sulphate (2:1 water soluble)	CE061 ^H	mg/l SO ₄	58	31	36	22	12
Cyanide (total)	CE077	mg/kg CN	<1	<1	<1	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	<0.5	<0.5	<0.5	<0.5
Total Organic Carbon (TOC)	CE072 ^H	% w/w C	1.4	1.0	1.5	1.3	0.5
Estimate of OMC (calculated from TOC)	CE072 ^H	% w/w	2.4	1.7	2.5	2.2	0.9
PAH							
Naphthalene	CE087 ^H	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^H	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^H	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^H	mg/kg	0.08	<0.02	<0.02	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^H	mg/kg	0.20	<0.02	0.02	0.03	<0.02
Pyrene	CE087 ^H	mg/kg	0.16	<0.02	<0.02	0.03	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02
Chrysene	CE087 ^H	mg/kg	0.12	<0.03	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^H	mg/kg	0.13	<0.02	<0.02	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^H	mg/kg	0.08	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	0.10	<0.02	<0.02	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^H	mg/kg	0.08	<0.02	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^H	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^H	mg/kg	0.08	<0.02	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	1.12	<0.34	<0.34	<0.34	<0.34
BTEX & TPH							
MTBE	CE057 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE057 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01

Chemtech Environmental Limited

SOILS

Lab number			78589-1	78589-2	78589-3	78589-4	78589-5
Sample id			TP01/1	TP01/2	TP01/3	TP01/4	TP01/5
Depth (m)			0.80	0.80	0.80	0.80	1.00
Date sampled			01/05/2019	01/05/2019	01/05/2019	01/05/2019	01/05/2019
Test	Method	Units					
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	<1	<1	<1	<1	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	<1	<1	<1	<1	<1
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	<4	11	<4	<4	11
EPH Aliphatic (>C35-C44)	CE068	mg/kg	<10	<10	<10	<10	<10
Subcontracted analysis							
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

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
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
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	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	M	10	mg/l SO ₄
CE077	Cyanide (total)	Extraction, Continuous Flow Colorimetry	As received		1	mg/kg CN
CE078	Phenols (total)	Extraction, Continuous Flow Colorimetry	As received		0.5	mg/kg PhOH
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	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE057	MTBE	Headspace GC-FID	As received	U	0.02	mg/kg
CE057	Benzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE057	Toluene	Headspace GC-FID	As received	U	0.01	mg/kg
CE057	Ethylbenzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE057	m & p-Xylene	Headspace GC-FID	As received	U	0.02	mg/kg
CE057	o-Xylene	Headspace GC-FID	As received	U	0.01	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

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)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
78589-1	TP01/1	0.80	N	
78589-2	TP01/2	0.80	N	
78589-3	TP01/3	0.80	N	
78589-4	TP01/4	0.80	N	
78589-5	TP01/5	1.00	N	

APPENDIX D: Waste Transfer Notes



CONVEYANCE / WASTE TRANSFER NOTE

G & L Transport Southern Ltd.

Down Barn Farm
Boarhunt Road, Fareham
Hampshire PO17 6AJ
Telephone: 01329 221132
sam@ganditransport.co.uk

VAT Reg. No. 866 8877 42 • Waste Carriers Reg. No. CBDU167736

Loaded at:		Date: 13-5-19		Owner of Vehicle:	
Customer: KNIGHTS GATE		Reg'd No. of Vehicle: T2GFL		Driver:	
Site Address: SOUTHMOOR FARM.		Haulers Carrier Reg. No.			
Material (or Description of Waste): Soil & STONE.		Name and Address of Disposal site:			
Signed by Disposal Site Operator:				Loads to Tip: 1.3	
By Weight	Tonnes	By Volume		Daywork	
Gross Weight		1.5 m ³		Time Start	
Tare Weight		Short Wheelbase Surcharge		Time Finish	
Nett Weight		Yes	No	Total Hours Less Breaks	
Materials				Trav. Time	
Received				Hours	
Print Name:				Cash Sale	£
Certified that the above particulars are true and relate to the sand or ballast being conveyed in this vehicle described, which sand or ballast is being conveyed in pursuance of sale of material or an agreement for the sale thereof made by the cubic metre or tonne.				VAT	£
Signed for				TOTAL	£

Customers ordering vehicles off the public highway do so at their own responsibility.

If this ticket records a waste transfer it must be kept for two years.

No. 82614

Minimum hire 8 hours



TJ TRANSPORT LTD

Charity Farm, 127 Wickham Road, Fareham, Hampshire, PO17 5BP
Tel: 01329 226446 Fax: 01329 826167 www.tj-transport.co.uk
Carriers Registration Certificate No. CB / SM3250JF

C

Driver Name:			Inert Spoil	17 05 04	Asphalt	17 03 02
Registration:	T2 GXL 13509		Soils & Stone	17 05 04	Builders Waste	17 09 04
Customer:	KNISSGabel		Non-Haz Spoil	17 05 04	Hardcore (MRF)	19 12 12
			Hazardous Spoil	17 05 03	Soils (MS)	19 12 12
			Hardcore	17 01 02		
			Concrete	17 01 01	Other - Describe below	
Loaded at:	Southmere Farm Halvans		Waste description & EWC / Materials:			
Deliver to:			to local mixed load center			
Day work / waiting time or additional charges:			Volume	M³	Load	In accordance with the Weights and Measures Act 1985
			Gross Weight		Tonnes	
			Nett Weight		Tonnes	
			Tare Weight		Tonnes	
SIC Code:						
Day work / waiting time or additional charges:			Construction	41.10	Demolition	43.11
			Civil Engineering	42.99	Waste Collection	38.11
I confirm that I have fulfilled my duty to apply the waste hierarchy, as required by Regulation 12 of the waste (England and Wales) Regulation 2011						
Disposal Signature:			Customer Signature			
Disposal / Material Ticket Number:			Notes Customers ordering vehicles off the public road do so entirely at their own responsibility. Certified that the above particulars are true and relate to the material or waste being conveyed in the vehicle described, which material or waste is being so conveyed in pursuance of: (a) a sale or agreement for the sale thereof made by the cubic tonne / metre / load (b) an agreement for the carriage thereof made by the cubic tonne / metre / load			