



ANALYTICAL TEST REPORT

Contract no: 103848

Contract name: Barn No.9, The Green, Croft

Client reference: 1609

Clients name: Castledine & Co

Clients address: 4 Wymeswold Road
Hoton
Loughborough
LE12 5SN

Samples received: 15 December 2021

Analysis started: 15 December 2021

Analysis completed: 22 December 2021

Report issued: 22 December 2021

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:



Reporting Team Lead

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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.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
103848-1	HP01	0.10	Loamy Sandy Clay with Gravel	-	-	20.5
103848-2	HP02	0.50	Sandy Clay with Gravel	-	-	9.4
103848-3	HP02	0.20	Sandy Clay with Gravel	-	-	25.3

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SOILS

Lab number			103848-1	103848-2	103848-3
Sample id			HP01	HP02	HP02
Depth (m)			0.10	0.50	0.20
Date sampled			10/12/2021	10/12/2021	10/12/2021
Test	Method	Units			
Arsenic (total)	CE127 ^M	mg/kg As	13	16	12
Cadmium (total)	CE127 ^M	mg/kg Cd	0.7	<0.2	1.7
Chromium (total)	CE127 ^M	mg/kg Cr	82	135	91
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	48	15	71
Lead (total)	CE127 ^M	mg/kg Pb	141	28	146
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	18	14	20
Selenium (total)	CE127 ^M	mg/kg Se	0.8	0.5	0.6
Zinc (total)	CE127 ^M	mg/kg Zn	256	82	862
pH	CE004 ^M	units	8.6	8.2	7.7
Phenols (total)	CE078	mg/kg PhOH	<0.5	<0.5	<0.5
Total Organic Carbon (TOC)	CE197	% w/w C	4.6	0.8	5.4
Estimate of OMC (calculated from TOC)	CE197	% w/w	8.0	1.4	9.3
PAH					
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	0.11
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	0.03
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	0.03
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	0.03
Phenanthrene	CE087 ^M	mg/kg	0.20	<0.02	1.26
Anthracene	CE087 ^U	mg/kg	0.06	<0.02	0.09
Fluoranthene	CE087 ^M	mg/kg	0.50	0.03	1.56
Pyrene	CE087 ^M	mg/kg	0.45	0.03	1.55
Benzo(a)anthracene	CE087 ^U	mg/kg	0.26	<0.02	0.44
Chrysene	CE087 ^M	mg/kg	0.24	<0.03	0.90
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.39	0.02	0.85
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.14	<0.03	0.36
Benzo(a)pyrene	CE087 ^U	mg/kg	0.30	<0.02	0.60
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.27	<0.02	0.48
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.05	<0.02	0.09
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.28	<0.02	0.44
PAH (total of USEPA 16)	CE087	mg/kg	3.14	<0.34	8.81
Subcontracted analysis					
Asbestos (qualitative)	\$	-	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
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
CE078	Phenols (total)	Extraction, Continuous Flow Colorimetry	As received		0.5	mg/kg PhOH
CE197	Total Organic Carbon (TOC)	Carbon Analyser	Dry		0.1	% w/w C
CE197	Estimate of OMC (calculated from TOC)	Calculation from Total Organic Carbon	Dry		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
\$	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)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
103848-1	HP01	0.10	N	
103848-2	HP02	0.50	N	
103848-3	HP02	0.20	N	

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ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

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.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.