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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 19-25352

Issue: 1

Date of Issue: 23/10/2019

Contact: Lab Results

Customer Details: Ashdown Site Investigation Ltd
Unit 3 The Grain Store
Ditchling Common Business Park
Ditchling Common
West Sussex BN6 8SG

Quotation No: Q15-00267

Order No: 8008

Customer Reference: P14195

Date Received: 16/10/2019

Date Approved: 23/10/2019

Details: Phase 1 - Mill Rythe Holiday Village, Hayling Island, Hampshire

Approved by:



Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
186997	TP01 0.10	14/10/2019	16/10/2019	Silty loam	
186998	TP02 0.20	14/10/2019	16/10/2019	Silty loam	
186999	TP03 0.05	14/10/2019	16/10/2019	Silty loam	
187000	TP04 0.05	14/10/2019	16/10/2019	Silty loam	
187001	TP05 0.10	14/10/2019	16/10/2019	Silty loam	
187002	TP06 0.05	14/10/2019	16/10/2019	Silty loam	
187003	TP07 0.05	14/10/2019	16/10/2019	Silty loam	
187004	TP08 0.05	14/10/2019	16/10/2019	Silty loam	
187005	TP09 0.05	14/10/2019	16/10/2019	Silty loam	
187006	TP10 0.05	14/10/2019	16/10/2019	Silty loam	

Results Summary

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ELAB Reference	186997	186998	186999	187000	187001
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP01	TP02	TP03	TP04	TP05
Sample Depth (m)	0.10	0.20	0.05	0.05	0.10
Sampling Date	14/10/2019	14/10/2019	14/10/2019	14/10/2019	14/10/2019

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None
Metals								
Arsenic	M	mg/kg	1	10.2	11.2	12.8	13.4	12.8
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	24.8	27.6	26.5	30.2	25.7
Copper	M	mg/kg	5	22.2	55.6	12.1	12.1	15.8
Lead	M	mg/kg	5	153	281	50.4	50.1	37.3
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	1.4	< 0.5	< 0.5
Nickel	M	mg/kg	5	13.8	30.7	10.3	11.4	9.6
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	146	98.8	52.0	57.0	44.3
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	2.4	2.1	2.5	4.3	4.4
Miscellaneous								
pH	M	pH units	0.1	6.4	6.6	5.4	6.6	5.7
Soil Organic Matter	U	%	0.1	5.5	4.7	8.1	9.7	11
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.2	0.5	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.5	1.8	< 0.1	0.1	0.2
Pyrene	M	mg/kg	0.1	0.4	1.3	< 0.1	< 0.1	0.2
Benzo(a)anthracene	M	mg/kg	0.1	0.3	1.2	< 0.1	< 0.1	0.1
Chrysene	M	mg/kg	0.1	0.4	1.1	< 0.1	< 0.1	0.2
Benzo(b)fluoranthene	M	mg/kg	0.1	0.5	1.3	< 0.1	0.1	0.2
Benzo(k)fluoranthene	M	mg/kg	0.1	0.4	1.3	< 0.1	0.2	0.2
Benzo(a)pyrene	M	mg/kg	0.1	0.3	1.1	< 0.1	< 0.1	0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.3	1.0	< 0.1	< 0.1	0.2
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	0.3	0.9	< 0.1	< 0.1	0.1
Total PAH(16)	M	mg/kg	0.4	3.7	11.9	0.5	0.9	1.6

Results Summary

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ELAB Reference	187002	187003	187004	187005	187006
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP06	TP07	TP08	TP09	TP10
Sample Depth (m)	0.05	0.05	0.05	0.05	0.05
Sampling Date	14/10/2019	14/10/2019	14/10/2019	14/10/2019	14/10/2019

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None
Metals								
Arsenic	M	mg/kg	1	6.2	4.0	5.5	6.7	7.8
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	23.1	20.1	20.5	25.9	28.9
Copper	M	mg/kg	5	9.5	7.7	7.9	15.3	10.6
Lead	M	mg/kg	5	72.4	38.3	26.1	35.8	43.8
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	8.4	7.0	7.8	11.9	9.9
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	34.6	34.8	37.8	55.2	46.0
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	5.3	3.4	3.9	3.8	5.6
Miscellaneous								
pH	M	pH units	0.1	5.4	5.3	5.2	6.3	5.6
Soil Organic Matter	U	%	0.1	13	17	9.7	8.0	14
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.1	< 0.1	0.1	0.4	0.2
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	0.3	0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1
Chrysene	M	mg/kg	0.1	0.1	0.1	0.1	0.3	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.4	0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.4	0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.4	0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.4	0.2
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.3	0.2
Total PAH(16)	M	mg/kg	0.4	0.4	0.4	0.6	3.4	1.4

Results Summary

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Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, approvals or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No 2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
186997	0.10	TP01	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
186998	0.20	TP02	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
186999	0.05	TP03	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
187000	0.05	TP04	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
187001	0.10	TP05	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
187002	0.05	TP06	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
187003	0.05	TP07	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
187004	0.05	TP08	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
187005	0.05	TP09	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a
187006	0.05	TP10	Brown Soil, Stones, Plant Material	No asbestos detected	n/a	n/a	n/a	n/a

Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	21/10/2019	110	Colorimetry
pH	M	Air dried sample	23/10/2019	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	21/10/2019	118	ICPMS
PAH (GC-FID)	M	As submitted sample	22/10/2019	133	GC-FID
Water soluble boron	N	Air dried sample	21/10/2019	202	Colorimetry
Soil organic matter	U	Air dried sample	22/10/2019	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	21/10/2019	PMAN	Microscopy

Tests marked N are not UKAS accredited

Report Information

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Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage