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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 15-03866

Issue: 1

Date of Issue: 30/09/2015

Contact: Stuart Guy

Customer Details: Stuart Guy Consulting
5 Willow Heights
Cradley Heath
West Midlands B64 7PL

Quotation No: Q14-00070

Order No: 15-09-05

Customer Reference: 15-08-03

Date Received: 24/09/2015

Date Approved: 30/09/2015

Details: Whaplode

Approved by: 

Steve Knight, Business Development Manager

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



Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
40746	TP1 0.00 - 0.40	23/09/2015	24/09/2015	Sandy silty loam	
40747	TP1 0.40 - 0.95	23/09/2015	24/09/2015	Silty loam	
40748	TP1 0.95 - 1.40	23/09/2015	24/09/2015		
40749	TP2 0.00 - 0.30	23/09/2015	24/09/2015	Sandy silty loam	
40750	TP2 0.80 - 1.20	23/09/2015	24/09/2015	Silty loam	
40751	TP3 0.00 - 0.20	23/09/2015	24/09/2015	Silty loam	
40752	TP3 0.60 - 1.00	23/09/2015	24/09/2015	Silty loam	
40753	TP4 0.00 - 0.20	23/09/2015	24/09/2015	Sandy silty loam	
40754	TP4 0.80 - 1.20	23/09/2015	24/09/2015	Loamy sand	

Results Summary

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ELAB Reference				40746	40747	40749	40750	40751	40752
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP1	TP1	TP2	TP2	TP3	TP3
Sample Depth (m)				0.00 - 0.40	0.40 - 0.95	0.00 - 0.30	0.80 - 1.20	0.00 - 0.20	0.60 - 1.00
Sampling Date				23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015	23/09/2015
Determinand	Codes	Units	LOD						
Metals									
Arsenic	M	mg/kg	1	49.9	19.0	30.5	35.1	16.1	13.2
Cadmium	M	mg/kg	0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	30.5	14.6	25.2	32.2	20.6	21.0
Copper	M	mg/kg	5	103	27.2	62.2	93.4	42.7	51.9
Lead	M	mg/kg	5	275	106	404	305	76.8	79.8
Mercury	M	mg/kg	0.5	0.9	< 0.5	0.7	1.1	< 0.5	< 0.5
Nickel	M	mg/kg	5	30.8	13.5	23.3	32.7	18.4	18.7
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	241	62.4	350	179	117	133
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Organics									
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	1.5	< 1.0	2.1	< 1.0	< 1.0	< 1.0
>C21-C35 BCB	N	mg/kg	1	2.8	< 1.0	18.3	< 1.0	5.2	< 1.0
>C35-C40 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	4.3	< 1.0	20.4	< 1.0	5.2	< 1.0
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.6	< 0.1	3.1	< 0.1	0.4	0.3
Anthracene	M	mg/kg	0.1	0.1	< 0.1	0.8	< 0.1	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	1.5	< 0.1	6.8	< 0.1	1.7	0.5
Pyrene	M	mg/kg	0.1	1.3	< 0.1	5.8	< 0.1	1.6	0.5
Benzo(a)anthracene	M	mg/kg	0.1	0.7	< 0.1	2.9	< 0.1	0.9	0.3
Chrysene	M	mg/kg	0.1	0.9	< 0.1	3.4	< 0.1	1.1	0.4
Benzo (b) fluoranthene	M	mg/kg	0.1	0.9	0.2	3.0	0.3	1.2	0.3
Benzo(k)fluoranthene	M	mg/kg	0.1	0.9	< 0.1	3.1	0.3	1.2	0.4
Benzo (a) pyrene	M	mg/kg	0.1	1.0	0.3	3.5	0.1	1.5	0.3
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	0.8	< 0.1	2.5	< 0.1	1.0	0.5
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.3	< 0.1	0.6	< 0.1	0.2	0.3
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.9	< 0.1	2.4	< 0.1	0.9	0.4
Total PAH(16)	M	mg/kg	0.4	10.3	0.6	38.6	0.8	11.9	4.4
Total Petroleum Hydrocarbons									
Total TPH (>C8-C40)	M	mg/kg	5	19	< 5	90	< 5	148	< 5



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Results Summary

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ELAB Reference	40753	40754
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	TP4	TP4
Sample Depth (m)	0.00 - 0.20	0.80 - 1.20
Sampling Date	23/09/2015	23/09/2015

Determinand	Codes	Units	LOD		
Metals					
Arsenic	M	mg/kg	1	15.1	20.2
Cadmium	M	mg/kg	0.5	1.9	< 0.5
Chromium	M	mg/kg	5	47.0	24.2
Copper	M	mg/kg	5	57.5	57.2
Lead	M	mg/kg	5	137	132
Mercury	M	mg/kg	0.5	< 0.5	1.1
Nickel	M	mg/kg	5	24.6	22.2
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	14400	862
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Organics					
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	2.9	< 1.0
>C21-C35 BCB	N	mg/kg	1	138	< 1.0
>C35-C40 BCB	N	mg/kg	1	69.8	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	211	< 1.0
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	1.0	0.3
Anthracene	M	mg/kg	0.1	0.5	< 0.1
Fluoranthene	M	mg/kg	0.1	2.9	1.1
Pyrene	M	mg/kg	0.1	2.5	1.0
Benzo(a)anthracene	M	mg/kg	0.1	1.7	0.5
Chrysene	M	mg/kg	0.1	1.8	0.7
Benzo (b) fluoranthene	M	mg/kg	0.1	2.0	0.7
Benzo(k)fluoranthene	M	mg/kg	0.1	1.6	0.7
Benzo (a) pyrene	M	mg/kg	0.1	2.3	0.7
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	2.2	0.5
Dibenzo(a,h)anthracene	M	mg/kg	0.1	1.0	0.2
Benzo[g,h,i]perylene	M	mg/kg	0.1	2.1	0.4
Total PAH(16)	M	mg/kg	0.4	21.8	7.0
Total Petroleum Hydrocarbons					
Total TPH (>C8-C40)	M	mg/kg	5	477	< 5

Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	24/09/2015	110	Colorimetry
Total Petroleum Hydrocarbons in solids	M	As submitted sample	25/09/2015	117	GC-FID
Aqua regia extractable metals	M	Air dried sample	28/09/2015	118	ICPMS
Polycyclic aromatic hydrocarbons (GC-FID)	M	As submitted sample	25/09/2015	133	GC-FID
Basic carbon banding in soil	N	As submitted sample	25/09/2015	218	GC-FID

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
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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

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