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Certificate of Analysis

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 24-55435

Issue: 1

Date of Issue: 03/09/2024

Contact: Keith Elson

Customer Details: Hemsley Consulting Ltd
Park Farm
Unit 9
Wivelsfield Green
West Sussex RH17 7RU

Quotation No: Q24-04321

Order No: Not Supplied

Customer Reference: Not Supplied

Date Received: 23/08/2024

Date Approved: 03/09/2024

Details: Woodville Centre, Ham, TW10 7QW

Approved by:

Ben Rees, Customer Services Assistant



Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
369973	TP1 0.30	20/08/2024	23/08/2024	Sandy silty loam	
369974	TP2 0.20	20/08/2024	23/08/2024	Silty loam	
369975	TP2 0.50	20/08/2024	23/08/2024	Sandy silty loam	
369976	TP3 0.30	20/08/2024	23/08/2024	Silty loam	
369977	TP4 0.10	20/08/2024	23/08/2024	Silty loam	
369978	TP5 0.20	20/08/2024	23/08/2024	Silty loam	
369979	TP6 0.15	20/08/2024	23/08/2024	Silty loam	
369980	TP6 0.50	20/08/2024	23/08/2024	Silty loam	
369981	TP7 0.30	20/08/2024	23/08/2024	Silty loam	
369982	TP8 0.40	20/08/2024	23/08/2024	Silty loam	
369983	TP9 0.15	20/08/2024	23/08/2024	Silty loam	
369984	TP10 0.30	20/08/2024	23/08/2024	Silty loam	
369985	TP11 0.80	20/08/2024	23/08/2024	Silty clayey loam	
369986	TP12 0.20	20/08/2024	23/08/2024	Silty loam	
369987	TP13 0.25	20/08/2024	23/08/2024	Silty loam	
369988	TP14 0.45	20/08/2024	23/08/2024	Silty loam	
369989	HTP1 0.25	20/08/2024	23/08/2024	Silty loam	
369990	HTP2 0.30	20/08/2024	23/08/2024	Silty loam	
369991	HTP3 0.30	20/08/2024	23/08/2024	Silty loam	

Results Summary

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	ELAB Reference	369973	369974	369975	369976	369977		
Customer Reference								
Sample ID								
Sample Type		SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Location		TP1	TP2	TP2	TP3	TP4		
Sample Depth (m)		0.30	0.20	0.50	0.30	0.10		
Sampling Date		20/08/2024	20/08/2024	20/08/2024	20/08/2024	20/08/2024		
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	7.5	4.8	4.7	5.4	4.0
Material removed	N	%	0.1	3.9	3.6	1.8	4.7	6.7
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	18.0	17.6	46.0	19.0	13.9
Cadmium	M	mg/kg	0.5	0.9	1.5	1.2	0.7	1.8
Chromium	M	mg/kg	5	28.2	34.5	31.1	27.8	34.7
Copper	M	mg/kg	5	50.2	93.1	920	232	130
Lead	M	mg/kg	5	12200	745	555	719	484
Mercury	M	mg/kg	0.5	< 0.5	0.7	< 0.5	0.6	0.9
Nickel	M	mg/kg	5	16.6	24.9	180	35.3	22.1
Selenium	M	mg/kg	1	< 1.0	< 1.0	3.1	< 1.0	< 1.0
Zinc	M	mg/kg	5	1200	259	456	383	313
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	0.8	1.0	1.8	0.8	1.0
Miscellaneous								
pH	M	pH units	0.1	8.8	8.0	8.1	8.1	7.6
Polyaromatic hydrocarbons								
Naphthalene	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	N	mg/kg	0.5	1.3	< 0.5	< 0.5	1.4	< 0.5
Acenaphthene	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	N	mg/kg	0.5	1.0	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	N	mg/kg	0.5	17.5	0.9	< 0.5	3.4	< 0.5
Anthracene	N	mg/kg	0.5	3.7	< 0.5	< 0.5	1.7	< 0.5
Fluoranthene	N	mg/kg	0.5	24.8	1.9	< 0.5	10.7	0.5
Pyrene	N	mg/kg	0.5	18.6	1.6	< 0.5	9.2	< 0.5
Benzo(a)anthracene	N	mg/kg	0.5	10.8	1.3	< 0.5	9.2	< 0.5
Chrysene	N	mg/kg	0.5	11.6	1.3	< 0.5	8.6	< 0.5
Benzo(b)fluoranthene	N	mg/kg	0.5	9.0	0.9	< 0.5	7.3	0.5
Benzo(k)fluoranthene	N	mg/kg	0.5	9.2	1.1	< 0.5	8.0	0.5
Benzo(a)pyrene	N	mg/kg	0.5	11.5	1.1	< 0.5	9.3	< 0.5
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.5	6.1	0.5	< 0.5	5.3	< 0.5
Dibenzo(a,h)anthracene	N	mg/kg	0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5
Benzo[g,h,i]perylene	N	mg/kg	0.5	5.8	0.6	< 0.5	4.9	< 0.5
Total PAH(16)	N	mg/kg	2	132	12.4	2.6	80.3	4.0

Results Summary

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	ELAB Reference	369978	369979	369980	369981	369982		
Customer Reference								
Sample ID								
Sample Type		SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Location		TP5	TP6	TP6	TP7	TP8		
Sample Depth (m)		0.20	0.15	0.50	0.30	0.40		
Sampling Date		20/08/2024	20/08/2024	20/08/2024	20/08/2024	20/08/2024		
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	4.5	4.5	9.0	3.9	5.4
Material removed	N	%	0.1	1.0	3.6	0.8	0.8	2.8
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	21.7	19.4	19.0	19.7	16.7
Cadmium	M	mg/kg	0.5	1.2	2.5	1.1	< 0.5	1.2
Chromium	M	mg/kg	5	28.8	30.0	29.7	22.9	33.3
Copper	M	mg/kg	5	157	255	118	68.4	200
Lead	M	mg/kg	5	977	1010	2670	521	808
Mercury	M	mg/kg	0.5	1.5	4.1	1.5	0.9	1.6
Nickel	M	mg/kg	5	29.6	26.2	29.0	20.3	25.8
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	568	528	733	235	489
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	0.9	1.0	0.7	< 0.5	0.7
Miscellaneous								
pH	M	pH units	0.1	8.7	7.9	9.3	8.3	8.5
Polyaromatic hydrocarbons								
Naphthalene	N	mg/kg	0.5	1.4	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	N	mg/kg	0.5	1.1	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthene	N	mg/kg	0.5	1.7	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	N	mg/kg	0.5	2.1	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	N	mg/kg	0.5	28.8	0.5	2.2	< 0.5	0.7
Anthracene	N	mg/kg	0.5	8.8	< 0.5	0.6	< 0.5	< 0.5
Fluoranthene	N	mg/kg	0.5	54.5	1.4	4.5	1.6	2.4
Pyrene	N	mg/kg	0.5	50.8	1.1	3.7	1.4	2.0
Benzo(a)anthracene	N	mg/kg	0.5	35.2	0.8	2.4	1.1	1.5
Chrysene	N	mg/kg	0.5	35.6	0.9	2.5	1.2	1.4
Benzo(b)fluoranthene	N	mg/kg	0.5	34.1	0.9	2.3	1.3	1.4
Benzo(k)fluoranthene	N	mg/kg	0.5	29.6	1.0	2.3	1.2	1.6
Benzo(a)pyrene	N	mg/kg	0.5	42.4	1.3	2.5	1.3	1.6
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.5	28.6	0.9	1.6	0.8	1.0
Dibenzo(a,h)anthracene	N	mg/kg	0.5	6.4	< 0.5	< 0.5	< 0.5	< 0.5
Benzo[g,h,i]perylene	N	mg/kg	0.5	28.9	1.0	1.5	0.9	1.0
Total PAH(16)	N	mg/kg	2	390	10.4	27.2	12.2	15.5

Results Summary

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	ELAB Reference	369983	369984	369985	369986	369987		
Customer Reference								
Sample ID								
Sample Type		SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Location		TP9	TP10	TP11	TP12	TP13		
Sample Depth (m)		0.15	0.30	0.80	0.20	0.25		
Sampling Date		20/08/2024	20/08/2024	20/08/2024	20/08/2024	20/08/2024		
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	5.3	4.7	22.7	5.1	5.5
Material removed	N	%	0.1	3.0	11.1	< 0.1	4.0	7.0
Description of Inert material removed	N		0	Stones	Stones	None	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	17.4	42.1	20.0	29.3	42.1
Cadmium	M	mg/kg	0.5	1.3	1.0	< 0.5	1.6	1.2
Chromium	M	mg/kg	5	31.1	27.1	34.1	35.0	30.9
Copper	M	mg/kg	5	394	134	90.5	287	134
Lead	M	mg/kg	5	569	715	354	894	2220
Mercury	M	mg/kg	0.5	1.0	0.9	0.7	1.3	1.3
Nickel	M	mg/kg	5	34.1	29.2	39.7	43.7	37.5
Selenium	M	mg/kg	1	< 1.0	1.9	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	555	489	170	772	618
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	0.8	0.9	1.3	1.1	0.6
Miscellaneous								
pH	M	pH units	0.1	8.4	7.9	8.1	7.8	8.7
Polyaromatic hydrocarbons								
Naphthalene	N	mg/kg	0.5	< 0.5	5.0	< 0.5	< 0.5	< 0.5
Acenaphthylene	N	mg/kg	0.5	1.4	4.4	< 0.5	< 0.5	< 0.5
Acenaphthene	N	mg/kg	0.5	< 0.5	1.2	< 0.5	< 0.5	< 0.5
Fluorene	N	mg/kg	0.5	0.6	3.8	< 0.5	< 0.5	< 0.5
Phenanthrene	N	mg/kg	0.5	11.8	44.8	< 0.5	1.4	1.4
Anthracene	N	mg/kg	0.5	4.5	16.0	< 0.5	0.5	< 0.5
Fluoranthene	N	mg/kg	0.5	33.3	60.5	0.6	3.0	3.5
Pyrene	N	mg/kg	0.5	26.8	46.9	0.5	2.6	2.7
Benzo(a)anthracene	N	mg/kg	0.5	17.7	31.6	< 0.5	2.1	2.3
Chrysene	N	mg/kg	0.5	17.7	31.3	< 0.5	2.1	2.4
Benzo(b)fluoranthene	N	mg/kg	0.5	14.2	20.0	< 0.5	1.7	2.2
Benzo(k)fluoranthene	N	mg/kg	0.5	15.1	21.0	< 0.5	1.9	2.2
Benzo(a)pyrene	N	mg/kg	0.5	18.6	27.2	0.6	1.8	2.4
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.5	10.0	12.8	< 0.5	1.1	1.5
Dibenzo(a,h)anthracene	N	mg/kg	0.5	0.9	1.3	< 0.5	< 0.5	< 0.5
Benzo[g,h,i]perylene	N	mg/kg	0.5	9.3	11.7	< 0.5	1.1	1.5
Total PAH(16)	N	mg/kg	2	183	340	4.6	20.2	23.8

Results Summary

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	ELAB Reference	369988	369989	369990	369991		
Customer Reference							
Sample ID							
Sample Type		SOIL	SOIL	SOIL	SOIL		
Sample Location		TP14	HTP1	HTP2	HTP3		
Sample Depth (m)		0.45	0.25	0.30	0.30		
Sampling Date		20/08/2024	20/08/2024	20/08/2024	20/08/2024		
Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Moisture Content	N	%	0.1	7.5	5.0	2.6	3.8
Material removed	N	%	0.1	2.8	2.4	3.8	4.2
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones
Metals							
Arsenic	M	mg/kg	1	24.8	21.9	14.8	17.3
Cadmium	M	mg/kg	0.5	1.5	1.8	1.4	2.3
Chromium	M	mg/kg	5	25.7	41.1	31.3	52.2
Copper	M	mg/kg	5	312	156	131	123
Lead	M	mg/kg	5	4110	2870	442	389
Mercury	M	mg/kg	0.5	7.2	1.7	0.8	1.2
Nickel	M	mg/kg	5	23.5	35.5	48.0	38.4
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	1150	463	350	258
Inorganics							
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	0.6	1.0	1.1	0.9
Miscellaneous							
pH	M	pH units	0.1	8.5	7.9	7.9	7.9
Polyaromatic hydrocarbons							
Naphthalene	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthene	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	N	mg/kg	0.5	1.6	0.6	1.2	1.2
Anthracene	N	mg/kg	0.5	0.5	< 0.5	< 0.5	0.7
Fluoranthene	N	mg/kg	0.5	3.3	1.7	2.4	3.3
Pyrene	N	mg/kg	0.5	2.8	1.3	2.0	2.8
Benzo(a)anthracene	N	mg/kg	0.5	2.1	1.2	1.7	2.1
Chrysene	N	mg/kg	0.5	2.1	1.2	1.7	2.3
Benzo(b)fluoranthene	N	mg/kg	0.5	1.7	1.1	1.5	2.1
Benzo(k)fluoranthene	N	mg/kg	0.5	1.8	1.4	1.7	2.2
Benzo(a)pyrene	N	mg/kg	0.5	2.1	1.2	1.7	2.4
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.5	1.2	0.8	1.2	1.3
Dibenzo(a,h)anthracene	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo[g,h,i]perylene	N	mg/kg	0.5	1.3	0.9	1.3	1.3
Total PAH(16)	N	mg/kg	2	21.4	12.5	18.2	22.8



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Results Summary

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Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

In accordance with procedures, a 1kg soil sample should be analysed. For amounts less than this caution should be used when analysing the data as sample size is smaller than the recommended amount, therefore samples could be deemed as not being representative of the materials present on site.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)
369974	0.20	TP2	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t
369980	0.50	TP6	Brown Sandy Soil, Stones, Root	No asbestos detected	n/t	n/t	n/t
369984	0.30	TP10	Brown Sandy Soil, Tar, Stones, Clinker	Chrysotile, Amosite, Crocidolite (Millboard)	n/t	n/t	n/t
369990	0.30	HTP2	Brown Sandy Soil, Stones,	No asbestos detected	n/t	n/t	n/t

Total Asbestos (%)	F/mm2 (l)
n/t	n/t
n/t	n/t
n/t	n/t
n/t	n/t



Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	28/08/2024	110	Colorimetry
pH	M	Air dried sample	28/08/2024	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	28/08/2024	300	ICPMS
PAH (GC-FID)	N	As submitted sample	28/08/2024	133	GC-FID
Water soluble boron	N	Air dried sample	28/08/2024	202	Colorimetry
Asbestos identification	U	Air dried sample	28/08/2024	281	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"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
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. This may affect the validity of the results.

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

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

End of Report