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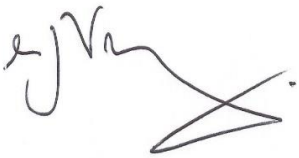
UKAS TESTING
2683

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	22-40420
Issue:	1
Date of Issue:	17/05/2022
Contact:	Dr David Santillo
Customer Details:	University of Exeter Greenpeace Research Laboratories Innovation Centre Phase 2 Exeter EX4 4RN
Quotation No:	Q22-02610
Order No:	GRL 4361
Customer Reference:	GRL 4361
Date Received:	09/05/2022
Date Approved:	17/05/2022
Details:	PCB Testing
Approved by:	

Mike Varley, General Manager

Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
278059	Sample	Not Provided	09/05/2022	Sample	ac

Results Summary

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ELAB Reference	278059
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	Sample
Sample Depth (m)	
Sampling Date	Not Provided

Determinand	Codes	Units	LOD	
Soil sample preparation parameters				
Moisture Content	N	%	0.1	14.8
Material removed	N	%	0.1	67.8
Description of Inert material removed	N		0	Stones/Brick/Clinker
PCB (ICES 7 congeners)				
PCB 28	M	mg/kg	0.01	c^ 0.06
PCB 52	M	mg/kg	0.01	c^ 0.13
PCB 101	M	mg/kg	0.01	c^ 0.21
PCB 118	M	mg/kg	0.01	c^ 0.22
PCB 153	M	mg/kg	0.01	c^ 0.25
PCB 138	M	mg/kg	0.01	c^ 0.34
PCB 180	M	mg/kg	0.01	c^ 0.37
Total PCBs (7 congeners)	M	mg/kg	0.03	c^ 1.57
PCB (WHO 12 Congeners)				
PCB 81	N	mg/kg	0.01	c 0.02
PCB 77	N	mg/kg	0.01	c 0.26
PCB 123	N	mg/kg	0.01	c < 0.01
PCB 118	N	mg/kg	0.01	c 0.63
PCB 114	N	mg/kg	0.01	c 0.02
PCB 105	N	mg/kg	0.01	c 0.48
PCB 126	N	mg/kg	0.01	c < 0.01
PCB 167	N	mg/kg	0.01	c 0.24
PCB 156	N	mg/kg	0.01	c 0.24
PCB 157	N	mg/kg	0.01	c 0.06
PCB 169	N	mg/kg	0.01	c < 0.01
PCB 189	N	mg/kg	0.01	c 0.04

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Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
PCB (WHO 12 Congeners)	N	Air dried sample	12/05/2022		GC-MS
PCB (ICES 7 congeners)	M	Air dried sample	12/05/2022	120	GC-MS

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