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**THE ENVIRONMENTAL LABORATORY LTD**

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**Analytical Report Number:** 19-23296

**Issue:** 1

**Date of Issue:** 06/06/2019

**Contact:** Luke Anstice

**Customer Details:** Cormac Solutions Limited  
Cormac Head Office  
Higher Trenant Road  
Wadebridge  
Cornwall PL27 6TW

**Quotation No:** Q14-00046

**Order No:** M- CN1900160/2

**Customer Reference:** 64531

**Date Received:** 31/05/2019

**Date Approved:** 06/06/2019

**Details:** Chilcott Plant Hire Topsoil Testing

**Approved by:**

John Wilson, Operations Manager

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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
174565	TS201 Soil 0.20	29/05/2019	31/05/2019	Silty loam	
174566	TS202 Soil 0.20	29/05/2019	31/05/2019		
174567	TS203 Soil 0.20	29/05/2019	31/05/2019	Silty loam	
174568	TS204 Soil 0.20	29/05/2019	31/05/2019	Silty loam	
174569	TS205 Soil 0.20	29/05/2019	31/05/2019	Silty loam	
174570	TS206 Soil 0.20	29/05/2019	31/05/2019		

# Results Summary

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ELAB Reference	174565	174567	174568	174569
Customer Reference	Soil	Soil	Soil	Soil
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	TS201	TS203	TS204	TS205
Sample Depth (m)	0.20	0.20	0.20	0.20
Sampling Date	29/05/2019	29/05/2019	29/05/2019	29/05/2019

Determinand	Codes	Units	LOD				
<b>Soil sample preparation parameters</b>							
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None
<b>Metals</b>							
Copper	M	mg/kg	5	29.6	29.7	29.8	26.9
Nickel	M	mg/kg	5	14.5	14.8	15.6	14.5
Zinc	M	mg/kg	5	86.8	70.4	66.9	59.4
<b>Inorganics</b>							
Carbonate	N	%	0.1	2.8	0.9	0.1	2.8
<b>Miscellaneous</b>							
Electrical Conductivity (CaSO4 extract)	N	uS/cm	1	2310	2230	2220	2220
Carbon Nitrogen Ratio	N	ratio	0.01	14.2	13.5	13.0	12.3
Loss On Ignition (450°C)	M	%	0.01	5.76	5.86	5.65	5.59
pH	M	pH units	0.1	6.8	6.6	6.5	6.4
Total Carbon	N	%	0.01	3.3	3.4	3.3	3.2
Total Nitrogen	N	%	0.01	0.24	0.25	0.25	0.26
Extractable Potassium	N	mg/l	20	157	161	163	186
Extractable Magnesium	N	mg/l	20	49	50	51	58
Extractable Phosphate	N	mg/l	1	68	71	71	71
Sand content	NS	%	1	30	27	31	30
Silt content	NS	%	1	51	52	50	51
Clay content	NS	%	1	19	21	19	19
Stones > 2mm	NS	%	1	15	19	10	11
Stones > 20mm	NS	%	1	< 1	< 1	< 1	< 1
Stones > 50mm	NS	%	1	< 1	< 1	< 1	< 1
Total Visible Contaminants	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Plastics	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sharps	N	n/kg	0	0	0	0	0

## Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Acid neutralisation capacity	N	Air dried sample	04/06/2019		
Extractable cations - BS3882	N	Air dried sample	04/06/2019		ICPMS
Visible Contaminants	N		03/06/2019		
pH	M	Air dried sample	05/06/2019	113	Electromeric
Electrical conductivity of soil	N	Air dried sample.	04/06/2019	114	Electromeric
Aqua regia extractable metals	M	Air dried sample	03/06/2019	118	ICPMS
Loss on ignition at 450 deg C	M	Air dried sample	05/06/2019	129	Gravimetry
Extr. Phos	N	Air dried sample	04/06/2019	140	ICPMS

Tests marked N are not UKAS accredited



## Report Information

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### Key

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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

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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