

# Results Summary

2683

Report No.: 21-32578, issue number 1

ELAB Reference	230022
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	CP04
Sample Depth (m)	2.50
Sampling Date	04/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Metals</b>				
Arsenic	M	mg/kg	1	12.1
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	26.3
Copper	M	mg/kg	5	21.0
Lead	M	mg/kg	5	11.4
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	29.2
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	48.0
<b>Inorganics</b>				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5
<b>Miscellaneous</b>				
Fraction of Organic Carbon	N		0.0001	0.0020
pH	M	pH units	0.1	8.3
<b>Polyaromatic hydrocarbons</b>				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4



## Results Summary

2683

Report No.: 21-32578, issue number 1

ELAB Reference	230022
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	CP04
Sample Depth (m)	2.50
Sampling Date	04/03/2021

Determinand	Codes	Units	LOD	
<b>TPH CWG</b>				
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	1.4
>C35-C40 Aromatic	N	mg/kg	1	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	1.4
<b>Total Petroleum Hydrocarbons</b>				
PAH Fingerprint	N	n/a	0	n/a
TPH Fingerprint	N	n/a	0	n/a



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY  
Tel: +44 (0)1424 718618, Email: [info@elab-uk.co.uk](mailto:info@elab-uk.co.uk), Web: [www.elab-uk.co.uk](http://www.elab-uk.co.uk)

## Results Summary

Report No.: 21-32578, issue number 1

### 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.

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 (%)
230022	2.50	CP04	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

## Method Summary

Report No.: 21-32578, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Sulphide	N	As submitted sample	11/03/2021	109	Colorimetry
pH	M	Air dried sample	15/03/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	12/03/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	11/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	15/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	15/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	11/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	12/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	11/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	15/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	11/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	12/03/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	11/03/2021	300	ICPMS

Tests marked N are not UKAS accredited

## Report Information

Report No.: 21-32578, issue number 1

### 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	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### 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



2683



THE ENVIRONMENT AGENCY'S  
MONITORING CERTIFICATION SCHEME

Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY  
Telephone: (01424) 718618

[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-32479

**Issue:** 1

**Date of Issue:** 09/03/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 05/03/2021

**Date Approved:** 09/03/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical 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

Report No.: 21-32479, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
229443	CP05 0.20	01/03/2021	05/03/2021	Silty loam	
229444	CP05 0.70	01/03/2021	05/03/2021	Silty clayey loam	
229445	CP05 1.20	01/03/2021	05/03/2021		
229446	CP05 2.50	01/03/2021	05/03/2021		
229447	CP05 2.50	01/03/2021	05/03/2021		
229448	CP05 5.50	01/03/2021	05/03/2021	Silty clayey loam	

# Results Summary

Report No.: 21-32479, issue number 1

ELAB Reference	229443	229444	229448
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	CP05	CP05	CP05
Sample Depth (m)	0.20	0.70	5.50
Sampling Date	01/03/2021	01/03/2021	01/03/2021

Determinand	Codes	Units	LOD			
<b>Soil sample preparation parameters</b>						
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None
<b>Metals</b>						
Arsenic	M	mg/kg	1	10.0	11.1	9.2
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	32.2	42.2	34.2
Copper	M	mg/kg	5	25.6	19.1	18.5
Lead	M	mg/kg	5	54.5	18.2	14.9
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	24.6	28.7	31.6
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	77.4	41.6	53.6
<b>Inorganics</b>						
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2
Acid Soluble Sulphate (SO <sub>4</sub> )	U	%	0.02	0.03	0.02	0.04
Water Soluble Boron	N	mg/kg	0.5	1.0	0.9	1.3
<b>Miscellaneous</b>						
Fraction of Organic Carbon	N		0.0001	0.0121	0.0035	0.0028
pH	M	pH units	0.1	6.8	7.0	8.4
<b>Polyaromatic hydrocarbons</b>						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.4	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.6	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	0.5	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.3	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	0.3	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	0.3	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.3	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.2	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	3.6	< 0.4	< 0.4





## Results Summary

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Report No.: 21-32479, issue number 1

ELAB Reference	229443	229444	229448
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	CP05	CP05	CP05
Sample Depth (m)	0.20	0.70	5.50
Sampling Date	01/03/2021	01/03/2021	01/03/2021

Determinand	Codes	Units	LOD			
<b>TPH CWG</b>						
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	7.5	3.0	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	3.3	1.5	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	3.8	< 1.0	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	2.0	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	16.6	4.4	< 1.0
<b>Total Petroleum Hydrocarbons</b>						
PAH Fingerprint	N	n/a	0	n/a	n/a	n/a
TPH Fingerprint	N	n/a	0	n/a	n/a	n/a



## Results Summary

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Report No.: 21-32479, issue number 1

ELAB Reference	229447
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	CP05
Sample Depth (m)	2.50
Sampling Date	01/03/2021

Determinand	Codes	Units	LOD	
<b>Anions</b>				
Sulphate	U	mg/l	0.5	32.0
<b>Miscellaneous</b>				
pH	U	pH units	0.1	7.3



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY  
Tel: +44 (0)1424 718618, Email: [info@elab-uk.co.uk](mailto:info@elab-uk.co.uk), Web: [www.elab-uk.co.uk](http://www.elab-uk.co.uk)

## Results Summary

Report No.: 21-32479, issue number 1

### 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.

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 (%)
229443	0.20	CP05	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
229444	0.70	CP05	Brown soil (clay)	No asbestos detected	n/t	n/t	n/t	n/t
229448	5.50	CP05	Brown soil (clay), stones	No asbestos detected	n/t	n/t	n/t	n/t

## Method Summary

Report No.: 21-32479, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Sulphide	N	As submitted sample	08/03/2021	109	Colorimetry
pH	M	Air dried sample	09/03/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	09/03/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	08/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	09/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	09/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	08/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	09/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	08/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	09/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	08/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	08/03/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	08/03/2021	300	ICPMS
<b>Water</b>					
pH of waters	U		08/03/2021	113	Electromeric
Anions	U		08/03/2021	270	Ion Chromatography

Tests marked N are not UKAS accredited

## Report Information

Report No.: 21-32479, issue number 1

### 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"
LOD	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### 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)  |
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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



Unit A2  
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[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-32810

**Issue:** 1

**Date of Issue:** 29/03/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** 21-12093

**Date Received:** 24/03/2021

**Date Approved:** 29/03/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32810, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231425	CP05 Natural 6.50	01/03/2021	24/03/2021	Silty clayey loam	



2683



## Results Summary

Report No.: 21-32810, issue number 1

ELAB Reference	231425
Customer Reference	Natural
Sample ID	
Sample Type	DISTURBED
Sample Location	CP05
Sample Depth (m)	6.50
Sampling Date	01/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Anions</b>				
Water Soluble Sulphate	M	g/l	0.02	0.04
<b>Inorganics</b>				
Acid Soluble Sulphate (SO4)	U	%	0.02	0.04





## Method Summary

Report No.: 21-32810, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Acid Soluble Sulphate	U	Air dried sample	26/03/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	25/03/2021	172	Ion Chromatography

## Report Information

Report No.: 21-32810, issue number 1

### 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
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S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
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LOD	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### Deviation Codes

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|---|--|
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| e | The container has been incorrectly filled                |
| f | Sample age exceeds stability time (sampling to receipt)  |
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### Sample Retention and Disposal

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Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY  
Telephone: (01424) 718618

[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-32591

**Issue:** 1

**Date of Issue:** 17/03/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 11/03/2021

**Date Approved:** 17/03/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical 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

Report No.: 21-32591, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
230095	CP06 0.15	09/03/2021	11/03/2021	Silty loam	
230096	CP06 0.15	09/03/2021	11/03/2021	Sand	
230097	CP06 3.70	09/03/2021	11/03/2021		



## Results Summary

2683

Report No.: 21-32591, issue number 1

ELAB Reference	230095	230096
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	CP06	CP06
Sample Depth (m)	0.15	0.15
Sampling Date	09/03/2021	09/03/2021

Determinand	Codes	Units	LOD		
<b>Soil sample preparation parameters</b>					
Material removed	N	%	0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None
<b>Metals</b>					
Arsenic	M	mg/kg	1	9.5	5.6
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	25.4	14.2
Copper	M	mg/kg	5	23.6	10.4
Lead	M	mg/kg	5	41.9	9.4
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	16.2	13.8
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	64.4	24.4
<b>Inorganics</b>					
Total Sulphide	N	mg/kg	2	< 2	< 2
Acid Soluble Sulphate (SO <sub>4</sub> )	U	%	0.02	0.05	0.02
Water Soluble Boron	N	mg/kg	0.5	0.9	< 0.5
<b>Miscellaneous</b>					
Fraction of Organic Carbon	N		0.0001	0.0282	0.0012
pH	M	pH units	0.1	6.7	8.5
<b>Polyaromatic hydrocarbons</b>					
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	0.2	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.4	< 0.1
Pyrene	M	mg/kg	0.1	0.4	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.2	< 0.1
Chrysene	M	mg/kg	0.1	0.3	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	0.3	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.4	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.2	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.2	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	2.9	< 0.4



2683



## Results Summary

Report No.: 21-32591, issue number 1

ELAB Reference	230095	230096
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	CP06	CP06
Sample Depth (m)	0.15	0.15
Sampling Date	09/03/2021	09/03/2021

Determinand	Codes	Units	LOD		
<b>TPH CWG</b>					
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	< 1.0
<b>Total Petroleum Hydrocarbons</b>					
PAH Fingerprint	N	n/a	0	n/a	n/a
TPH Fingerprint	N	n/a	0	n/a	n/a



## Results Summary

2683

Report No.: 21-32591, issue number 1

ELAB Reference	230097
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	CP06
Sample Depth (m)	3.70
Sampling Date	09/03/2021

Determinand	Codes	Units	LOD	
<b>Anions</b>				
Sulphate	U	mg/l	0.5	46.9
<b>Miscellaneous</b>				
pH	U	pH units	0.1	7.5



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY  
Tel: +44 (0)1424 718618, Email: [info@elab-uk.co.uk](mailto:info@elab-uk.co.uk), Web: [www.elab-uk.co.uk](http://www.elab-uk.co.uk)

## Results Summary

Report No.: 21-32591, issue number 1

### 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.

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 (%)
230095	0.15	CP06	Brown Sandy Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
230096	0.15	CP06	Brown Sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t



## Method Summary

Report No.: 21-32591, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Sulphide	N	As submitted sample	12/03/2021	109	Colorimetry
pH	M	Air dried sample	15/03/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	15/03/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	12/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	15/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	15/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	12/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	15/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	12/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	15/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	12/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	15/03/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	12/03/2021	300	ICPMS
<b>Water</b>					
pH of waters	U		12/03/2021	113	Electromeric
Anions	U		12/03/2021	270	Ion Chromatography

Tests marked N are not UKAS accredited

## Report Information

Report No.: 21-32591, issue number 1

### 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"
LOD	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### 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



Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY  
Telephone: (01424) 718618

[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-32811

**Issue:** 1

**Date of Issue:** 29/03/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** 21-12093

**Date Received:** 24/03/2021

**Date Approved:** 29/03/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32811, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231426	CP06 Natural 6.00	09/03/2021	24/03/2021	Silty clayey loam	



2683



## Results Summary

Report No.: 21-32811, issue number 1

ELAB Reference	231426
Customer Reference	Natural
Sample ID	
Sample Type	DISTURBED
Sample Location	CP06
Sample Depth (m)	6.00
Sampling Date	09/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Anions</b>				
Water Soluble Sulphate	M	g/l	0.02	0.03
<b>Inorganics</b>				
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05



## Method Summary

Report No.: 21-32811, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Acid Soluble Sulphate	U	Air dried sample	26/03/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	25/03/2021	172	Ion Chromatography

## Report Information

Report No.: 21-32811, issue number 1

### 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"
LOD	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### Deviation Codes

- 
- |   |  |
|---|--|
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| 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



Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY  
Telephone: (01424) 718618

[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-33082

**Issue:** 1

**Date of Issue:** 15/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 08/04/2021

**Date Approved:** 15/04/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-33082, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232849	TP01 0.40	23/03/2021	08/04/2021	Silty loam	



## Results Summary

2683

Report No.: 21-33082, issue number 1

ELAB Reference	232849
Customer Reference	
Sample ID	
Sample Type	BULK
Sample Location	TP01
Sample Depth (m)	0.40
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Anions</b>				
Water Soluble Sulphate	M	g/l	0.02	< 0.02
<b>Inorganics</b>				
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02



## Method Summary

Report No.: 21-33082, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Acid Soluble Sulphate	U	Air dried sample	15/04/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	13/04/2021	172	Ion Chromatography

## Report Information

Report No.: 21-33082, issue number 1

### 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"

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



Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY  
Telephone: (01424) 718618

[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-32885

**Issue:** 1

**Date of Issue:** 06/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806


**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 29/03/2021

**Date Approved:** 06/04/2021

**Details:** Cottam Parkway Station

**Approved by:** 

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32885, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231869	TP01 0.50	23/03/2021	29/03/2021	Silty clayey loam	

# Results Summary

2683

Report No.: 21-32885, issue number 1

ELAB Reference	231869
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP01
Sample Depth (m)	0.50
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Metals</b>				
Arsenic	M	mg/kg	1	8.3
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	40.2
Copper	M	mg/kg	5	15.7
Lead	M	mg/kg	5	15.0
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	39.6
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	43.6
<b>Inorganics</b>				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5
<b>Miscellaneous</b>				
Fraction of Organic Carbon	N		0.0001	0.0032
pH	M	pH units	0.1	8.2
<b>Polyaromatic hydrocarbons</b>				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4



## Results Summary

2683

Report No.: 21-32885, issue number 1

ELAB Reference	231869
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP01
Sample Depth (m)	0.50
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>TPH CWG</b>				
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0
<b>Total Petroleum Hydrocarbons</b>				
PAH Fingerprint	N	n/a	0	n/a
TPH Fingerprint	N	n/a	0	n/a





Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY  
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 21-32885, issue number 1

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.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231869	0.50	TP01	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t

## Method Summary

Report No.: 21-32885, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	Air dried sample	01/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	31/03/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	30/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	30/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	31/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	31/03/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

Tests marked N are not UKAS accredited

## Report Information

Report No.: 21-32885, issue number 1

### Key

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U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### Deviation Codes

- 
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|---|--|
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| 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



Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY  
Telephone: (01424) 718618

[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-33084

**Issue:** 1

**Date of Issue:** 15/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 08/04/2021

**Date Approved:** 15/04/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-33084, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232850	TP02 1.00	23/03/2021	08/04/2021	Silty loam	



## Results Summary

2683

Report No.: 21-33084, issue number 1

ELAB Reference	232850
Customer Reference	
Sample ID	
Sample Type	BULK
Sample Location	TP02
Sample Depth (m)	1.00
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Anions</b>				
Water Soluble Sulphate	M	g/l	0.02	< 0.02
<b>Inorganics</b>				
Acid Soluble Sulphate (SO <sub>4</sub> )	U	%	0.02	< 0.02



## Method Summary

Report No.: 21-33084, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Acid Soluble Sulphate	U	Air dried sample	15/04/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	13/04/2021	172	Ion Chromatography

## Report Information

Report No.: 21-33084, issue number 1

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I/S	Insufficient Sample
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### Sample Retention and Disposal

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---

## THE ENVIRONMENTAL LABORATORY LTD

---

**Analytical Report Number:** 21-32886

**Issue:** 1

**Date of Issue:** 06/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806


**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 29/03/2021

**Date Approved:** 06/04/2021

**Details:** Cottam Parkway Station

**Approved by:** 

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32886, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231870	TP02 1.50	23/03/2021	29/03/2021	Sandy silty loam	

# Results Summary

2683

Report No.: 21-32886, issue number 1

ELAB Reference	231870
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP02
Sample Depth (m)	1.50
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Metals</b>				
Arsenic	M	mg/kg	1	10.9
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	37.0
Copper	M	mg/kg	5	21.2
Lead	M	mg/kg	5	12.8
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	40.4
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	52.1
<b>Inorganics</b>				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5
<b>Miscellaneous</b>				
Fraction of Organic Carbon	N		0.0001	0.0017
pH	M	pH units	0.1	8.1
<b>Polyaromatic hydrocarbons</b>				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4



## Results Summary

2683

Report No.: 21-32886, issue number 1

ELAB Reference	231870
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP02
Sample Depth (m)	1.50
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>TPH CWG</b>				
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0
<b>Total Petroleum Hydrocarbons</b>				
PAH Fingerprint	N	n/a	0	n/a
TPH Fingerprint	N	n/a	0	n/a



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY  
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 21-32886, issue number 1

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.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231870	1.50	TP02	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t

## Method Summary

Report No.: 21-32886, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	Air dried sample	01/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	31/03/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	30/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	30/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	31/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	01/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

Tests marked N are not UKAS accredited

## Report Information

Report No.: 21-32886, issue number 1

### Key

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I/S	Insufficient Sample
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### Deviation Codes

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|---|--|
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### Sample Retention and Disposal

---

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-32895

**Issue:** 1

**Date of Issue:** 06/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806


**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 29/03/2021

**Date Approved:** 06/04/2021

**Details:** Cottam Parkway Station

**Approved by:** 

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32895, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231893	TP03 Natural 0.40	23/03/2021	29/03/2021	Silty loam	

# Results Summary

2683

Report No.: 21-32895, issue number 1

ELAB Reference	231893
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	TP03
Sample Depth (m)	0.40
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Metals</b>				
Arsenic	M	mg/kg	1	10.7
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	42.1
Copper	M	mg/kg	5	17.1
Lead	M	mg/kg	5	14.6
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	35.4
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	52.8
<b>Inorganics</b>				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5
<b>Miscellaneous</b>				
Fraction of Organic Carbon	N		0.0001	0.0023
pH	M	pH units	0.1	7.7
<b>Polyaromatic hydrocarbons</b>				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4



## Results Summary

2683

Report No.: 21-32895, issue number 1

ELAB Reference	231893
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	TP03
Sample Depth (m)	0.40
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>TPH CWG</b>				
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0
<b>Total Petroleum Hydrocarbons</b>				
PAH Fingerprint	N	n/a	0	n/a
TPH Fingerprint	N	n/a	0	n/a



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Results Summary

Report No.: 21-32895, issue number 1

Asbestos Results

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Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231893	0.40	TP03 Natural	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t

## Method Summary

Report No.: 21-32895, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	Air dried sample	01/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	31/03/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	30/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
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Total organic carbon/Total sulphur	N	Air dried sample	31/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	01/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

Tests marked N are not UKAS accredited

## Report Information

Report No.: 21-32895, issue number 1

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| 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



Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY  
Telephone: (01424) 718618

[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-33086

**Issue:** 1

**Date of Issue:** 15/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806


**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 08/04/2021

**Date Approved:** 15/04/2021

**Details:** Cottam Parkway Station

**Approved by:** 

Mike Varley, Technical 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

Report No.: 21-33086, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232855	TP04 0.60	23/03/2021	08/04/2021	Silty loam	





## Results Summary

2683

Report No.: 21-33086, issue number 1

ELAB Reference	232855
Customer Reference	
Sample ID	
Sample Type	BULK
Sample Location	TP04
Sample Depth (m)	0.60
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Anions</b>				
Water Soluble Sulphate	M	g/l	0.02	< 0.02
<b>Inorganics</b>				
Acid Soluble Sulphate (SO <sub>4</sub> )	U	%	0.02	< 0.02



## Method Summary

Report No.: 21-33086, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Acid Soluble Sulphate	U	Air dried sample	15/04/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	13/04/2021	172	Ion Chromatography

## Report Information

Report No.: 21-33086, issue number 1

### Key

---

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
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^	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	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### Deviation Codes

- 
- |   |  |
|---|--|
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| 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

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---

## THE ENVIRONMENTAL LABORATORY LTD

---

**Analytical Report Number:** 21-33087

**Issue:** 1

**Date of Issue:** 15/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 08/04/2021

**Date Approved:** 15/04/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-33087, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232856	TP05 0.50	24/03/2021	08/04/2021	Silty loam	



## Results Summary

2683

Report No.: 21-33087, issue number 1

ELAB Reference	232856
Customer Reference	
Sample ID	
Sample Type	BULK
Sample Location	TP05
Sample Depth (m)	0.50
Sampling Date	24/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Anions</b>				
Water Soluble Sulphate	M	g/l	0.02	< 0.02
<b>Inorganics</b>				
Acid Soluble Sulphate (SO <sub>4</sub> )	U	%	0.02	0.02



## Method Summary

Report No.: 21-33087, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Acid Soluble Sulphate	U	Air dried sample	15/04/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	13/04/2021	172	Ion Chromatography

## Report Information

Report No.: 21-33087, issue number 1

### Key

---

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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	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### Deviation Codes

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- |   |  |
|---|--|
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| 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





Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
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[cs@elab-uk.co.uk](mailto:cs@elab-uk.co.uk)  
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---

## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-33088

**Issue:** 1

**Date of Issue:** 15/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 08/04/2021

**Date Approved:** 15/04/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-33088, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232857	TP06 1.00	24/03/2021	08/04/2021	Silty loam	



## Results Summary

2683

Report No.: 21-33088, issue number 1

ELAB Reference	232857
Customer Reference	
Sample ID	
Sample Type	DISTURBED
Sample Location	TP06
Sample Depth (m)	1.00
Sampling Date	24/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Anions</b>				
Water Soluble Sulphate	M	g/l	0.02	< 0.02
<b>Inorganics</b>				
Acid Soluble Sulphate (SO <sub>4</sub> )	U	%	0.02	< 0.02



## Method Summary

Report No.: 21-33088, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Acid Soluble Sulphate	U	Air dried sample	15/04/2021	115	Ion Chromatography
Water soluble anions	M	Air dried sample	13/04/2021	172	Ion Chromatography

## Report Information

Report No.: 21-33088, issue number 1

### Key

---

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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
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LOD	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### Deviation Codes

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- |   |  |
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| a | No date of sampling supplied                             |
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| 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



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Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
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[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 21-32897

**Issue:** 1

**Date of Issue:** 06/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 29/03/2021

**Date Approved:** 06/04/2021

**Details:** Cottam Parkway Station

**Approved by:**

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32897, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
231900	TP06 Natural 0.25	23/03/2021	29/03/2021	Silty loam	

# Results Summary

2683

Report No.: 21-32897, issue number 1

ELAB Reference	231900
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	TP06
Sample Depth (m)	0.25
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Metals</b>				
Arsenic	M	mg/kg	1	12.1
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	27.8
Copper	M	mg/kg	5	28.9
Lead	M	mg/kg	5	41.6
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	21.1
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	72.6
<b>Inorganics</b>				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO <sub>4</sub> )	U	%	0.02	0.03
Water Soluble Boron	N	mg/kg	0.5	< 0.5
<b>Miscellaneous</b>				
Fraction of Organic Carbon	N		0.0001	0.0271
pH	M	pH units	0.1	6.3
<b>Polyaromatic hydrocarbons</b>				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.1
Pyrene	M	mg/kg	0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	0.5





## Results Summary

2683

Report No.: 21-32897, issue number 1

ELAB Reference	231900
Customer Reference	Natural
Sample ID	
Sample Type	SOIL
Sample Location	TP06
Sample Depth (m)	0.25
Sampling Date	23/03/2021

Determinand	Codes	Units	LOD	
<b>TPH CWG</b>				
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0
<b>Total Petroleum Hydrocarbons</b>				
PAH Fingerprint	N	n/a	0	n/a
TPH Fingerprint	N	n/a	0	n/a



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY  
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 21-32897, issue number 1

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.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
231900	0.25	TP06 Natural	Brown Soil,Root	No asbestos detected	n/t	n/t	n/t	n/t

## Method Summary

Report No.: 21-32897, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Sulphide	N	As submitted sample	30/03/2021	109	Colorimetry
pH	M	Air dried sample	01/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	31/03/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	30/03/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/03/2021	181	GC-MS
Water soluble boron	N	Air dried sample	30/03/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	31/03/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	31/03/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	30/03/2021	214	GC-FID
Asbestos identification	U	Air dried sample	01/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	30/03/2021	300	ICPMS

Tests marked N are not UKAS accredited

## Report Information

Report No.: 21-32897, issue number 1

### Key

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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
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LOD	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at &lt; 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report.</p> <p>The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>Uncertainty of measurement for the determinands tested are available upon request</p> <p>Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.</p>

### Deviation Codes

- 
- |   |  |
|---|--|
| a | No date of sampling supplied                             |
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| c | Sample not received in appropriate containers            |
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| e | The container has been incorrectly filled                |
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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



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[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

---

**Analytical Report Number:** 21-32949

**Issue:** 1

**Date of Issue:** 07/04/2021

**Contact:** Sam Parry

**Customer Details:** CC Geotechnical Ltd  
Unit 1 & 2 Deltic Place  
Deltic Way  
Liverpool  
Merseyside L33 7BA

**Quotation No:** Q17-00806

**Order No:** Not Supplied

**Customer Reference:** CCG-C-21-12093

**Date Received:** 31/03/2021

**Date Approved:** 07/04/2021

**Details:** Cottam Parkway Station

**Approved by:** 

Mike Varley, Technical Manager

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## Sample Summary

Report No.: 21-32949, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232148	WS01 0.10	25/03/2021	31/03/2021	Silty loam	

# Results Summary

2683

Report No.: 21-32949, issue number 1

ELAB Reference	232148
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS01
Sample Depth (m)	0.10
Sampling Date	25/03/2021

Determinand	Codes	Units	LOD	
<b>Soil sample preparation parameters</b>				
Material removed	N	%	0.1	< 0.1
Description of Inert material removed	N		0	None
<b>Metals</b>				
Arsenic	M	mg/kg	1	39.8
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	33.3
Copper	M	mg/kg	5	31.5
Lead	M	mg/kg	5	58.8
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	23.8
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	93.1
<b>Inorganics</b>				
Total Sulphide	N	mg/kg	2	< 2
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02
Water Soluble Boron	N	mg/kg	0.5	0.6
<b>Miscellaneous</b>				
Fraction of Organic Carbon	N		0.0001	0.0212
pH	M	pH units	0.1	6.7
<b>Polyaromatic hydrocarbons</b>				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4



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## Results Summary

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ELAB Reference	232148
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	WS01
Sample Depth (m)	0.10
Sampling Date	25/03/2021

Determinand	Codes	Units	LOD	
<b>TPH CWG</b>				
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	2.2
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	2.2
<b>Total Petroleum Hydrocarbons</b>				
PAH Fingerprint	N	n/a	0	n/a
TPH Fingerprint	N	n/a	0	n/a





Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY  
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

## 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.

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 (%)
232148	0.10	WS01	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t

## Method Summary

Report No.: 21-32949, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
<b>Soil</b>					
Sulphide	N	As submitted sample	01/04/2021	109	Colorimetry
pH	M	Air dried sample	06/04/2021	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	06/04/2021	115	Ion Chromatography
PAH (GC-FID)	M	As submitted sample	01/04/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/04/2021	181	GC-MS
Water soluble boron	N	Air dried sample	01/04/2021	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	06/04/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	06/04/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	01/04/2021	214	GC-FID
Asbestos identification	U	Air dried sample	07/04/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/04/2021	300	ICPMS

Tests marked N are not UKAS accredited