

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▷ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_4386

Note: major constituent in upper case

TEST REPORT



Report No. EFS/204387 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 18-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 02-Jan-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

A handwritten signature in black ink, appearing to read 'R. Batham'.

Operations Manager
Energy & Waste Services

Date of Issue: 02-Jan-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Analytical and Deviating Sample Overview

Customer

Site

Report No

SOCOTEC UK Wokingham

D9008-19 M25 Jct 10

S204387

Consignment No S90588

Date Logged 18-Dec-2019

In-House Report Due 06-Jan-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
		REPORT A						
CL/1981665	1-306 16.50-17.00	D	D	✓	D	D	D	D
CL/1981666	1-306 1.20	D	D	D	D	D	D	D
CL/1981667	1-306 5.00	D	D	D	D	D	D	D
CL/1981668	1-306 9.25	D	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

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Waters Analysis

Unless stated otherwise results are expressed as mg/l

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Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

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TR Denotes Tremolite

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NADIS No Asbestos Detected In Sample

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\$\$ Unable to analyse due to the nature of the sample

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& Blank corrected result

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I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

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Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_4387

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/204388 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 18-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 02-Jan-2020

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 02-Jan-2020

Tests marked '^' have been subcontracted to another laboratory.

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SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Analytical and Deviating Sample Overview

Customer

Site

Report No

SOCOTEC UK Wokingham

D9008-19 M25 Jct 10

S204388

Consignment No S90587

Date Logged 18-Dec-2019

In-House Report Due 06-Jan-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
		Sampled		SO4-- (acid sol)	SO4-- (H2O sol) mg/l	Total Sulphur.	pH (BS1377)
CL/1981669	1-305 1.90	D	D	✓	✓	D	D
CL/1981670	1-305 7.90	D	D	D	D	D	D
CL/1981671	1-305 15.60-16.10	D	D	D	D	D	D
CL/1981672	1-305 24.70-25.20	D	D	D	D	D	D

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Deviating Sample Key	
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E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

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¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▷ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

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Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_4388

Note: major constituent in upper case

TEST REPORT

Report No. EFS/204430 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 19-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 03-Jan-2020

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
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Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham



Operations Manager
Energy & Waste Services

Date of Issue: 03-Jan-2020

Tests marked '^' have been subcontracted to another laboratory.

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SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Analytical and Deviating Sample Overview

Customer

Site

Report No

SOCOTEC UK Wokingham

D9008-19 M25 Jct 10

S204430

Consignment No S87306

Date Logged 19-Dec-2019

In-House Report Due 07-Jan-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ORGMAT	Organic Matter %			D
CustServ	REPORT A			D
MethodID	Sampled			D
Description				
			ID Number	1-533A 1.00-1.50

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
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C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ORGMAT	Oven Dried @ < 35°C	Acid Dichromate oxidation of the sample followed by colorimetric analysis of the extract

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

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¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

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Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_4430

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/204481 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 20-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 07-Jan-2020

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 07-Jan-2020

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[illegible]

Customer

SOCOTEC UK Wokingham

Site

D9008-19 M25 Jct 10

Report No

S204481

Consignment No

S90681

Date Logged

20-Dec-2019

In-House Report Due

08-Jan-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	PHSOIL	TSBRE1
		Sampled	REPORT A	SO4-- (acid sol)	SO4-- (H2O sol) mg/l	pH units (AR)	Total Sulphur.
CL/1982025	1-940 1.50	27/09/19		✓	✓	✓	

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	Analysis Required
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Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	PHSOIL	As Received	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection

Report Notes

Generic Notes

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Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_4481

Note: major constituent in upper case

Our Ref: EFS/204526 (Ver. 1)

Your Ref: D9008-19

January 7, 2020



Environmental Chemistry

SOCOTEC UK Limited

Bretby Business Park

Ashby Road

Burton-on-Trent

Staffordshire

DE15 0YZ

Telephone: 01283 554400

Facsimile: 01283 554422

Andrea Capon
SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

For the attention of Andrea Capon

Dear Andrea Capon

Sample Analysis - D9008-19 M25 Jct 10

Samples from the above site have been analysed in accordance with the schedule supplied.

The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Where appropriate the samples will be kept until 03/02/20 when they will be discarded. Please call 01283 554434 for an extension of this date.

Please be aware that our policy for the retention of paper based laboratory records and analysis reports is 6 years.

The work was carried out in accordance with SOCOTEC UK Limited (Multi-Sector Services) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for SOCOTEC UK Limited

A handwritten signature in dark ink, appearing to read "K Smith", written over a light grey rectangular background.

K Smith

Project Co-ordinator

01283 554434

TEST REPORT



1252

Report No. EFS/204526 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 23-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 07-Jan-2020

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 07-Jan-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S204526

Consignment No S90684
Date Logged 23-Dec-2019
In-House Report Due 09-Jan-2020

Please note the results for any subcontracted analysis (identified with a 'u') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
			REPORT A	SO4-- (acid sol)	SO4-- (H2O sol) mg/l	Total Sulphur.	pH (BS1377)
CL/1982271	1-210 3.00	D	D	✓	✓		
CL/1982272	1-210 6.00	D	D	D	D	D	D
CL/1982273	1-210 14.50-16.00	D	D	D	D	D	D
CL/1982274	1-210 22.50-24.00	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	The sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
u	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_4526

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/204527 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 23-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 10-Jan-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 10-Jan-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

CustomerSOCOTEC UK Wokingham

SiteD9008-19 M25 Jct 10

Report NoS204527

Consignment No S90684

Date Logged 23-Dec-2019

In-House Report Due 15-Jan-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	Dep.Opt	DO NO3 if pH<5.5	DO Mg if SO4(W)>3000	DO Cl if pH<5.5	ICPACIDS	ICPBRE	ICPWSS	KONECL	KoneNO3	TSBRE1	WSLM50
		Sampled	REPORT A					SO4-- (acid sol)	Magnesium (BRE)	SO4-- (H2O sol) mg/l	Chloride:(2:1)	Nitrate (BRE 2:1): mg/l	Total Sulphur.	pH (BS1377)
Test Method Accredited to ISO17025								✓	✓					
CL/1982275	1-339 5.10	D	D	D	D	D	D	D	D	D	D	D	D	D
CL/1982276	1-339 10.20	D	D					D	D	D	D	D	D	D
CL/1982277	1-339 19.20	D	D					D	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

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Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_4527

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/204528 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 23-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 10-Jan-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 10-Jan-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S90730

Site D9008-19 M25 Jct 10

Date Logged 23-Dec-2019

Report No S204528

In-House Report Due 15-Jan-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)			D	D	D
TSBRE1	Total Sulphur.			D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l			D	D	D
KONECL	Chloride:(2:1)			D	D	D
ICPWSS	SO4-- (H2O sol) mg/l		✓	D	D	D
ICPBRE	Magnesium (BRE)			D	D	D
ICPACIDS	SO4-- (acid sol)		✓	D	D	D
Dep.Opt	DO NO3 if pH<5.5			D		
	DO Mg if SO4(W)>3000			D		
	DO Cl if pH<5.5			D		
CustServ	REPORT A			D	D	D
MethodID	Sampled		ISO17025	D	D	D
ID Number	Description		Test Method Accredited to	1-417 3.00-3.45		
				1-417 7.00-7.45		
				1-417 11.40		

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
A	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_4528

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/204529 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 23-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 10-Jan-2020

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Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 10-Jan-2020

Tests marked '^' have been subcontracted to another laboratory.

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SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S204529

Consignment No S90731
Date Logged 23-Dec-2019
In-House Report Due 15-Jan-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	Dep.Opt	DO NO3 if pH<5.5	DO Mg if SO4(W)>3000	DO Cl if pH<5.5	ICPACIDS	ICPBRE	ICPWSS	KONECL	KoneNO3	TSBRE1	WSLM50
		Sampled	REPORT A											
Test Method Accredited to ISO17025		D						✓		✓				
CL/1982281	1-422 1.50		D	D	D	D	D	D	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_4529

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/204745 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 2 samples described in this report were registered for analysis by SOCOTEC UK Limited on 14-Jan-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 29-Jan-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 29-Jan-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S204745

Consignment No S90955
Date Logged 14-Jan-2020

In-House Report Due 29-Jan-2020

Please note the results for any subcontracted analysis (identified with a 'u') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	Dep.Opt	DO NO3 if pH<5.5	DO Mg if SO4(W)>3000	DO Cl if pH<5.5	ICPACIDS	ICPBRE	ICPWSS	KONECL	KoneNO3	TSBRE1	WSLM50
		Sampled	REPORT A								Chloride:(2:1)	Nitrate (BRE 2:1): mg/l	Total Sulphur.	pH (BS1377)
Test Method Accredited to ISO17025														
CL/2083069	1-401 5.20	D		D	D	D	D	✓		✓				
CL/2083073	1-339 1.10	D	D	D	D	D	D	D	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
u	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_4745

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205659 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 27-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 27-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S919882

D9008-19 M25 Jct 10
Site

Date Logged 04-Mar-2020

Report No S205659

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)			D	D	D	D	
TSBRE1	Total Sulphur.			D	D	D	D	
KoneNO3	Nitrate (BRE 2:1): mg/l			D	D	D	D	
KONECL	Chloride:(2:1)			D	D	D	D	
ICPWSS	SO4-- (H2O sol) mg/l		✓	DF	DF	DF	DF	
ICPACIDS	SO4-- (acid sol)		✓	D	D	D	D	
CustServ	REPORT A			D	D	D	D	
MethodID	Sampled		Test Method Accredited to ISO17025					
ID Number	Description			CL/2086225	1-741 0.70	D		
					CL/2086226	1-741 4.00	D	
					CL/2086227	1-741 8.60	D	
					CL/2086228	1-741 12.90-14.40	D	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5659

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205660 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 27-Apr-2020

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 27-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S91979

Site D9008-19 M25 Jct 10

Date Logged 04-Mar-2020

Report No **S205660**

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)				D	D	D
TSBRE1	Total Sulphur.				D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l				D	D	D
KONECL	Chloride:(2:1)				D	D	D
ICPWSS	SO4-- (H2O sol) mg/l			✓	DF	DF	DF
ICPACIDS	SO4-- (acid sol)			✓	D	D	D
CustServ	REPORT A				D	D	D
MethodID	Sampled			Test Method Accredited to ISO17025			
Description							
ID Number							

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5660

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205661 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

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The following tables are contained in this report:

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Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S91978

Site **D9008-19 M25 Jct 10**

Date Logged 04-Mar-2020

Report No S205661

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)			D	D	D	D
TSBRE1	Total Sulphur.			D	D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l			D	D		D
KONECL	Chloride:(2:1)			D	D		D
ICPWSS	SO4-- (H2O sol) mg/l		✓	DF	DF	DF	DF
ICPACIDS	SO4-- (acid sol)		✓	D	D	D	D
CustServ	REPORT A			D	D	D	D
MethodID	Sampled		Test Method Accredited to ISO17025	D	D	D	D
ID Number	Description			1-749 1.20	D	D	D
				1-749 5.00	D	D	D
				1-749 11.50	D	D	D
				1-749 15.50	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5661

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205662 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S91983

Site D9008-19 M25 Jct 10

Date Logged 04-Mar-2020

Report No S2056662

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)				D	D	D
TSBRE1	Total Sulphur.				D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l					D	D
KONECL	Chloride:(2:1)					D	D
ICPWSS	SO4-- (H2O sol) mg/l			✓	DF	DF	DF
ICPACIDS	SO4-- (acid sol)			✓	D	D	D
CustServ	REPORT A				D	D	D
MethodID	Sampled			Test Method Accredited to ISO17025			
ID Number	Description				1-722 0.60	D	
					1-722 6.00	D	
					1-722 14.50	D	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

Page 3 of 5 The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5662

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205663 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S91977

Site D9008-19 M25 Jct 10

Date Logged 04-Mar-2020

Report No S2056663

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)				D	D	D
TSBRE1	Total Sulphur.				D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l				D	D	D
KONECL	Chloride:(2:1)				D	D	D
ICPWSS	SO4-- (H2O sol) mg/l			✓	DF	DF	DF
ICPACIDS	SO4-- (acid sol)			✓	D	D	D
CustServ	REPORT A				D	D	D
MethodID	Sampled			Test Method Accredited to ISO17025			
ID Number	Description						

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5663

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205664 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S91987

D9008-19 M25 Jct 10
Site

Date Logged 04-Mar-2020

Report No S2056664

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)				D	D	D
TSBRE1	Total Sulphur.				D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l					D	D
KONECL	Chloride:(2:1)					D	D
ICPWSS	SO4-- (H2O sol) mg/l			✓	DF	DF	DF
ICPACIDS	SO4-- (acid sol)			✓	D	D	D
CustServ	REPORT A				D	D	D
MethodID	Sampled			Test Method Accredited to ISO17025			
ID Number	Description						

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5664

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205665 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 10-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 10-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205665

Consignment No S91976
Date Logged 04-Mar-2020
In-House Report Due 12-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	ORGMAT	TSBRE1	WSLM50
		REPORT A						pH (BS1377)
CL/2086245	1-237 2.20	D	D	D	D	✓	D	D
CL/2086246	1-237 3.50	D	D	D	D	D	D	
CL/2086247	1-237 10.00	D	D	D	D		D	D
CL/2086248	1-237 16.00	D	D	D	D		D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	ORGMAT	Oven Dried @ < 35°C	Acid Dichromate oxidation of the sample followed by colorimetric analysis of the extract
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5665

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205666 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer

Site

Report No

SOCOTEC UK Wokingham
D9008-19 M25 Jct 10
S205666

Consignment No S91984

Date Logged 04-Mar-2020

In-House Report Due 23-Apr-2020

Analytical and Deviating Sample Overview

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	REPORT A	ICPACIDS	SO4-- (acid sol)	ICPWSS	Chloride:(2:1)	Nitrate (BRE 2:1): mg/l	Total Sulphur.	pH (BS1377)	WSLM50
CL/2086249	1-311 1.20	D	D	✓	✓	DF	D	D	D	D	D
CL/2086250	1-311 3.80	D	D	D	D	DF	D	D	D	D	D
CL/2086251	1-311 11.20	D	D	D	D	DF	D	D	D	D	D
CL/2086252	1-311 13.80	D	D	D	D	DF	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5666

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205667 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 11-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 11-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

SOCOTEC UK Wokingham

Analytical and Deviating Sample Overview

CustomerSOCOTEC UK Wokingham

SiteD9008-19 M25 Jct 10

Report NoS205667

Consignment No S91981

Date Logged 04-Mar-2020

In-House Report Due 12-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)			D
TSBRE1	Total Sulphur.			D
ICPWSS	SO4-- (H2O sol) mg/l	✓	D	
ICPACIDS	SO4-- (acid sol)	✓	D	
CustServ	REPORT A			D
MethodID	Sampled			D
Description				
ID Number				
		CL/2086253	1-419 1.00	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_5667

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205668 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 10-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 10-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

SOCOTEC UK Wokingham

Analytical and Deviating Sample Overview

CustomerSOCOTEC UK Wokingham

SiteD9008-19 M25 Jct 10

Report NoS205668

Consignment No S91985

Date Logged 04-Mar-2020

In-House Report Due 12-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled			
		CustServ				
CL/2086254	1-366 1.20-1.65	D		D	D	D
		WSLM50	pH (BS1377)			
		TSBRE1	Total Sulphur.		D	D
		ICPWSS	SO4-- (H2O sol) mg/l	✓	D	D
		ICPACIDS	SO4-- (acid sol)	✓	D	D
		CustServ	REPORT A		D	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5668

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205669 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 11-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 11-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205669

Consignment No S91980
Date Logged 04-Mar-2020
In-House Report Due 12-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled				
		CustServ					
CL/2086255	1-258 2.40	D		WSLM50	pH (BS1377)		D
				TSBRE1	Total Sulphur.		D
				ICPWSS	SO4-- (H2O sol) mg/l	✓	D
				ICPACIDS	SO4-- (acid sol)	✓	D
				REPORT A			

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_5669

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205670 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 04-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S91986

Site D9008-19 M25 Jct 10

Date Logged 04-Mar-2020

Report No S205670

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)								
TSBRE1	Total Sulphur.								
ORGMAT	Organic Matter %					D		D	D
ICPWSS	SO4-- (H2O sol) mg/l			✓			DF	DF	DF
ICPACIDS	SO4-- (acid sol)			✓		D	D	D	D
CustServ	REPORT A					D	D	D	D
MethodID	Sampled			Test Method Accredited to ISO17025					
ID Number	Description			CL/2086256					
				1-239 0.75					
				D					
				CL/2086257					
1-239 3.50									
D									
CL/2086258									
1-239 6.45-6.50									
D									
CL/2086259									
1-239 10.70									
D									

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	ORGMAT	Oven Dried @ < 35°C	Acid Dichromate oxidation of the sample followed by colorimetric analysis of the extract
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5670

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205722 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 12-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 12-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Analytical and Deviating Sample Overview

Customer

Site

Report No

SOCOTEC UK Wokingham

D9008-19 M25 Jct 10

S205722

Consignment No S92034

Date Logged 06-Mar-2020

In-House Report Due 16-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled				
		CustServ					
CL/2086394	1-113A 3.00-3.45	D	WSLM50	pH (BS1377)			D
			TSBRE1	Total Sulphur.			D
			ICPWSS	SO4-- (H2O sol) mg/l	✓		D
			ICPACIDS	SO4-- (acid sol)	✓		D
			REPORT A			D	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_5722

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205723 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 5 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205723

Consignment No S92033
Date Logged 06-Mar-2020
In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled	CustServ	ICPACIDS	SO4-- (acid sol)	ICPWSS	SO4-- (H2O sol) mg/l	KONECL	Chloride:(2:1)	KoneNO3	Nitrate (BRE 2:1): mg/l	ORGMAT	Organic Matter %	TSBRE1	Total Sulphur.	WSLM50	pH (BS1377)
Test Method Accredited to ISO17025																		
CL/2086395	1-150 1.90	D		D	✓	D	D	D							D	D		
CL/2086396	1-150 2.60	D		D							D							
CL/2086397	1-150 4.00	D		D	D	D	D	D	D	D					D	D		
CL/2086398	1-150 10.00	D		D	D	D	D	D	D	D					D	D		
CL/2086399	1-150 17.50	D		D	D	D	D	D	D	D					D	D		

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	ORGMAT	Oven Dried @ < 35°C	Acid Dichromate oxidation of the sample followed by colorimetric analysis of the extract
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5723

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205725 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S92036

Site D9008-19 M25 Jct 10

Date Logged 06-Mar-2020

Report No S205725

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)				D	D	D
TSBRE1	Total Sulphur.				D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l						D
KONECL	Chloride:(2:1)						D
ICPWSS	SO4-- (H2O sol) mg/l			✓	D	D	D
ICPACIDS	SO4-- (acid sol)			✓	D	D	D
CustServ	REPORT A				D	D	D
MethodID	Sampled			Test Method Accredited to ISO17025			
ID Number	Description				1-170A 2.20	D	
					1-170A 7.20	D	
					1-170A 11.70	D	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5725

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205726 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S92037

Site D9008-19 M25 Jct 10

Date Logged 06-Mar-2020

Report No S205726

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)				D	D	D
TSBRE1	Total Sulphur.				D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l				D	D	D
KONECL	Chloride:(2:1)				D	D	D
ICPWSS	SO4-- (H2O sol) mg/l			✓	D	D	D
ICPACIDS	SO4-- (acid sol)			✓	D	D	D
CustServ	REPORT A				D	D	D
MethodID	Sampled			Test Method Accredited to ISO17025			
ID Number	Description						

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Page 3 of 5

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5726

Note: major constituent in upper case

TEST REPORT



Report No. EFS/205728 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

A handwritten signature in blue ink, appearing to read 'RBA'.

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205728

Consignment No S92024
Date Logged 06-Mar-2020
In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'v') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	KONECL	KoneNO3	TSBRE1	WSLM50
		Sampled	REPORT A	SO4-- (acid sol)	SO4-- (H2O sol) mg/l	Chloride:(2:1)	Nitrate (BRE 2:1): mg/l	Total Sulphur.	pH (BS1377)
Test Method Accredited to ISO17025									
CL/2086409	1-149 0.50	D		✓	✓				D
CL/2086410	1-149 6.00	D	D	D	D	D	D	D	D
CL/2086411	1-149 8.50	D	D	D	D	D	D	D	D
CL/2086412	1-149 14.25	D	D	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_5728

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205730 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 12-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 12-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205730

Consignment No S92025
Date Logged 06-Mar-2020
In-House Report Due 16-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
		Sampled		SO4-- (acid sol)	SO4-- (H2O sol) mg/l	Total Sulphur.	pH (BS1377)
CL/2086414	1-252A 1.20	D	D	✓	✓	D	D
CL/2086415	1-252A 5.70	D	D	D	D	D	D
CL/2086416	1-252A 10.70-11.25	D	D	D	D	D	D
CL/2086417	1-252A 16.50-18.00	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
✓	Analysis Required
■	Analysis dependant upon trigger result - Note: due date may be affected if triggered
□	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5730

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205731 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S92026

Site D9008-19 M25 Jct 10

Date Logged 06-Mar-2020

Report No S205731

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)			D	D	D	D
TSBRE1	Total Sulphur.			D	D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l			D	D	D	D
KONECL	Chloride:(2:1)			D	D	D	D
ICPWSS	SO4-- (H2O sol) mg/l		✓	D	D	D	D
ICPACIDS	SO4-- (acid sol)		✓	D	D	D	D
CustServ	REPORT A			D	D	D	D
MethodID	Sampled		Test Method Accredited to ISO17025				
	Description	ID Number		CL/2086418	1-746 2.20	D	
				CL/2086419	1-746 7.20	D	
				CL/2086420	1-746 11.70	D	
				CL/2086421	1-746 16.20	D	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5731

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205732 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 5 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S92027

D9008-19 M25 Jct 10

Date Logged 06-Mar-2020

Report No S205732

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)				D	D	D	D	D
TSBRE1	Total Sulphur.				D	D	D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l						D	D	
KONECL	Chloride:(2:1)						D	D	
ICPWSS	SO4-- (H2O sol) mg/l			✓	D	D	D	D	D
ICPACIDS	SO4-- (acid sol)			✓	D	D	D	D	D
CustServ	REPORT A				D	D	D	D	D
MethodID	Sampled			Test Method Accredited to ISO17025	D	D	D	D	D
ID Number	Description		1-948 1.00		D	D	D	D	D
			1-948 3.00		D	D	D	D	D
			1-948 6.00		D	D	D	D	D
			1-948 9.00		D	D	D	D	D
			1-948 20.45		D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5732

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205733 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 12-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 12-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205733

Consignment No S92035
Date Logged 06-Mar-2020
In-House Report Due 16-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
		Sampled		REPORT A		Total Sulphur.	
CL/2086427	1-152 1.20	D	D	✓	✓	D	D
CL/2086428	1-152 6.00	D	D	D	D	D	D
CL/2086429	1-152 13.00	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5733

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205734 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 5 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 16-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 16-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205734

Consignment No S92028
Date Logged 06-Mar-2020
In-House Report Due 16-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
		Sampled		REPORT A		Total Sulphur.	
CL/2086430	1-253 1.10-1.20	D	D	✓	✓	D	D
CL/2086431	1-253 7.20	D	D	D	D	D	D
CL/2086432	1-253 13.00	D	D	D	D	D	D
CL/2086433	1-253 19.00	D	D	D	D	D	D
CL/2086434	1-253 23.50	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5734

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205736 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205736

Consignment No S92032
Date Logged 06-Mar-2020
In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	REPORT A	CustServ	ICPACIDS	ICPWSS	KONECL	KoneNO3	TSBRE1	WSLM50
			Sampled							pH (BS1377)
Test Method Accredited to ISO17025										
CL/2086438	1-719 1.20	D			✓	DF	D	D	D	D
CL/2086439	1-719 8.00	D				DF	D	D	D	D
CL/2086440	1-719 14.50	D				DF	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5736

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205737 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S92031

Site D9008-19 M25 Jct 10

Date Logged 06-Mar-2020

Report No S205737

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)			D	D	D	D
TSBRE1	Total Sulphur.			D	D	D	D
KoneNO3	Nitrate (BRE 2:1): mg/l				D	D	
KONECL	Chloride:(2:1)				D	D	
ICPWSS	SO4-- (H2O sol) mg/l		✓	D	D	D	D
ICPACIDS	SO4-- (acid sol)		✓	D	D	D	D
CustServ	REPORT A			D	D	D	D
MethodID	Sampled		Test Method Accredited to ISO17025				
	Description	ID Number		CL/2086441	1-169 2.20-2.65	D	
				CL/2086442	1-169 7.70-8.15		D
				CL/2086443	1-169 12.70-13.15	D	
				CL/2086444	1-169 22:50	D	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5737

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205739 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 23-Apr-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham

Consignment No S92029

Site D9008-19 M25 Jct 10

Date Logged 06-Mar-2020

Report No S205739

In-House Report Due 23-Apr-2020

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

ID Number	Description	MethodID
		Sampled
		CustServ
		ICPACIDS
		ICPWSS
		KONECL
		KoneNO3
		TSBRE1
		WSLM50

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Where individual results are flagged see report notes for status.

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	KONECL	Oven Dried @ < 35°C	Determination of Chloride in Soil using water extraction at the stated water:soil ratio, discrete colorimetric detection
Soil	KoneNO3	Oven Dried @ < 35°C	Determination of Nitrate in soil samples by water extraction followed by colorimetric detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5739

Note: major constituent in upper case

TEST REPORT

Report No. EFS/205740 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 13-Mar-2020

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham



Operations Manager
Energy & Waste Services

Date of Issue: 13-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205740

Consignment No S92078
Date Logged 06-Mar-2020
In-House Report Due 17-Mar-2020

Please note the results for any subcontracted analysis (identified with a 'u') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ORGMAT
		Sampled	REPORT A	Organic Matter %
CL/2086451	1-913A 4.10	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
u	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ORGMAT	Oven Dried @ < 35°C	Acid Dichromate oxidation of the sample followed by colorimetric analysis of the extract

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5740

Note: major constituent in upper case

TEST REPORT

Report No. EFS/205741 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 11-Mar-2020

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham



Operations Manager
Energy & Waste Services

Date of Issue: 11-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205741

Consignment No S92073
Date Logged 06-Mar-2020
In-House Report Due 17-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ORGMAT	Organic Matter %				D
CustServ	REPORT A				D
MethodID	Sampled			Test Method Accredited to ISO17025	D
Description					
ID Number				CL/2086452	1-913 3.00

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ORGMAT	Oven Dried @ < 35°C	Acid Dichromate oxidation of the sample followed by colorimetric analysis of the extract

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_5741

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205742 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 16-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 16-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

SOCOTEC UK Ltd Environmental Chemistry
Analytical and Deviating Sample Overview

Sample Analysis

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205742

Consignment No S92079
Date Logged 06-Mar-2020
In-House Report Due 17-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
		Sampled		REPORT A		Total Sulphur.	
CL/2086453	1-911 3.20	D	D	✓	✓	D	D
CL/2086454	1-911 8.20	D	D	D	D	D	D
CL/2086455	1-911 14.70	D	D	D	D	D	D
CL/2086456	1-911 26.70	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5742

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205743 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 16-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 16-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Analytical and Deviating Sample Overview

Customer

SOCOTEC UK Wokingham

Site

D9008-19 M25 Jct 10

Report No

S205743

Consignment No

S92074

Date Logged

06-Mar-2020

In-House Report Due

17-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled				
		CustServ		REPORT A			
CL/2086457	1-909 0.50	D	WSLM50	pH (BS1377)			D
			TSBRE1	Total Sulphur.			D
			ICPWSS	SO4-- (H2O sol) mg/l		✓	D
			ICPACIDS	SO4-- (acid sol)		✓	D
							D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5743

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205744 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 2 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 16-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
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Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 16-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205744

Consignment No S92077
Date Logged 06-Mar-2020
In-House Report Due 17-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

WSLM50	pH (BS1377)			D	D
TSBRE1	Total Sulphur.			D	D
ICPWSS	SO4-- (H2O sol) mg/l		✓	D	D
ICPACIDS	SO4-- (acid sol)		✓	D	D
CustServ	REPORT A			D	D
MethodID	Sampled			D	D
Description					
ID Number					
CL/2086458	1-937 0.70				
CL/2086459	1-937 2.30				

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5744

Note: major constituent in upper case

TEST REPORT



Report No. EFS/205746 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 16-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

A handwritten signature in blue ink, appearing to read 'RBA'.

Operations Manager
Energy & Waste Services

Date of Issue: 16-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205746

Consignment No S92076
Date Logged 06-Mar-2020
In-House Report Due 17-Mar-2020

Please note the results for any subcontracted analysis (identified with a 'A') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled			
		CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
CL/2086461	1-948A 0.50	D	✓	✓		
		D	D	D	D	D
		D	D	D	D	D
		D	D	D	D	D
		D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_5746

Note: major constituent in upper case

TEST REPORT



Report No. EFS/205747 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10


The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 16-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim 
Becky Batham
Operations Manager
Energy & Waste Services

Date of Issue: 16-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205747

Consignment No S92080
Date Logged 06-Mar-2020
In-House Report Due 17-Mar-2020

Please note the results for any subcontracted analysis (identified with a 'A') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
		Sampled	REPORT A	SO4-- (acid sol)	SO4-- (H2O sol) mg/l	Total Sulphur.	pH (BS1377)
CL/2086462	1-949A 1.00	D	D	D	✓	D	D
CL/2086463	1-949A 8.35-8.40	D	D	D	D	D	D
CL/2086464	1-949A 15.00	D	D	D	D	D	D
CL/2086465	1-949A 22.70	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : S20_5747

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205748 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 16-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
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Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 16-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S205748

Consignment No S92081
Date Logged 06-Mar-2020
In-House Report Due 17-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	CustServ	ICPACIDS	ICPWSS	TSBRE1	WSLM50
		REPORT A		SO4-- (acid sol)	SO4-- (H2O sol) mg/l	Total Sulphur.	pH (BS1377)
CL/2086466	1-951 1.20	D	D	D	✓	D	D
CL/2086467	1-951 9.20	D	D	D	D	D	D
CL/2086468	1-951 16.00	D	D	D	D	D	D
CL/2086469	1-951 24.50	D	D	D	D	D	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5748

Note: major constituent in upper case

TEST REPORT



1252

Report No. EFS/205749 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 06-Mar-2020. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 16-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 16-Mar-2020

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

Analytical and Deviating Sample Overview

Customer

SOCOTEC UK Wokingham

Site

D9008-19 M25 Jct 10

Report No

S205749

Consignment No

S92075

Date Logged

06-Mar-2020

In-House Report Due

17-Mar-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled				
		CustServ		REPORT A			
CL/2086470	1-917 0.50	D		WSLM50	pH (BS1377)		D
				TSBRE1	Total Sulphur.		D
				ICPWSS	SO4-- (H2O sol) mg/l	✓	D
				ICPACIDS	SO4-- (acid sol)	✓	D

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPWSS	Oven Dried @ < 35°C	Determination of Water Soluble Sulphate in soil samples by water extraction followed by ICPOES detection
Soil	TSBRE1	Oven Dried @ < 35°C	Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection
Soil	WSLM50	Oven Dried @ < 35°C	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S20_5749

Note: major constituent in upper case



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010153

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 4

Date Received: 17/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

Account Manager
Katherine Smith
01283 204384

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010153

Date Issued: 31/01/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
1-255 D 7 SL 1.20	20010153-001	31/10/2019 07:30:00	SOLID
1-255 D 16 SL 5.20	20010153-002	01/11/2019 07:00:00	SOLID
1-255 D 28 SL 10.00	20010153-003	05/11/2019 07:00:00	SOLID
1-255 D 37 SL 16.00	20010153-004	05/11/2019 07:00:00	SOLID



Client: SOCOTEC Geotechnical
Project Name: D9008-19 M25 Jct 10
Project No: 20010153
Date Issued: 31/01/2020

Analysis Results

20010153									
Project ID				001		002		003	
Sample ID				1-255 D 7 SL 1.20		1-255 D 16 SL 5.20		1-255 D 28 SL 10.00	
Customer ID									
Sample Type				SOLID		SOLID		SOLID	
Sampling Date				31/10/2019		01/11/2019		05/11/2019	
				7.0		6.8		4.4	
								3.2	





Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010153

Date Issued: 31/01/2020

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time
1-255 D 16 SL 5.20	20010153-002	CLANDPREP						✓	

Analysis Basis

Analysis

CLANDPREP
ICPACIDS
ICPWSS
TSBRE1
WSLM50

Analysis Type

PHYS
METALS
METALS
INORGANIC
INORGANIC

Analysis Basis

As Received
Air Dried & Ground
Air Dried & Ground
Air Dried & Ground
Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010153

Date Issued: 31/01/2020

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105° c

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation, if applicable further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010154

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 1

Date Received: 17/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

Account Manager
Katherine Smith
01283 204384

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010154

Date Issued: 31/01/2020

Samples Analysed

Sample Reference

Text ID

Sample Date

Sample Type

1-225 SL 2.80

20010154-001

SOLID



Client: SOCOTEC Geotechnical
Project Name: D9008-19 M25 Jct 10
Project No: 20010154
Date Issued: 31/01/2020

Analysis Results

Analysis	Method Code	MDL	Units	Project ID
	WSLM40	0.1	% m/m	20010154
	CLANDPREP	0.1	%	001
	CLANDPREP	0.1	%	1-225 SL 2.80
	CLANDPREP	0.1	-	SOLID
BS1377 Organic Matter				
%Dry Matter Under 2mm				
Total Moisture at 35°C				
Description of Solid Material				
				0.3
				<0.1
				15.5
				CLAY



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010154

Date Issued: 31/01/2020

Deviating Sample Report

			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time
Sample Reference	Text ID	Reported Name							

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
WSLM40	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010154

Date Issued: 31/01/2020

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105° C

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° C.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation, if applicable further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

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- ND = Results cannot be determined

End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010155

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Report Number: 20010155

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 1

Date Received: 17/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

Account Manager
Katherine Smith
01283 204384

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010155

Date Issued: 31/01/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
1-207 SL 3.20	20010155-001		SOLID
1-207 SL 8.00	20010155-002		SOLID
1-207 SL 14.50	20010155-003		SOLID
1-207 SL 23.50	20010155-004		SOLID

Analysis Results

20010155				Project ID	
001		002	003	004	
1-207 SL 3.20		1-207 SL 8.00	1-207 SL 14.50	1-207 SL 23.50	
SOLID		SOLID	SOLID	SOLID	
Analysis	Method Code	MDL	Units	Accred	
	pH Units (BS1377)	1	pH units	N	4.5
	Sulphur as S (BRE)	0.005	% m/m	N	0.048
	Water Soluble Sulphate as SO ₄	10	mg/l	U	50
	Acid Soluble Sulphate as SO ₄	20	mg/kg	U	282
	%Dry Matter Under 2mm	0.1	%	N	11
	Total Moisture at 35°C	0.1	%	N	20.2
Description of Solid Material			-	N	SILT
					SILT
					CLAY
					SAND



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010155

Date Issued: 31/01/2020

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ICPACIDS	METALS	Air Dried & Ground
ICPWSS	METALS	Air Dried & Ground
TSBRE1	INORGANIC	Air Dried & Ground
WSLM50	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010155

Date Issued: 31/01/2020

Additional Information

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- N = Unaccredited analysis

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End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010156

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Report Number: 20010156

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 1

Date Received: 17/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

A handwritten signature in black ink, appearing to read 'K. Smith'.

Account Manager
Katherine Smith
01283 204384

A handwritten signature in black ink, appearing to read 'R. Batham'.

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010156

Date Issued: 31/01/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
1-166 SL 0.50	20010156-001		SOLID
1-166 SL 4.20	20010156-002		SOLID
1-166 SL 8.37	20010156-003		SOLID
1-166 SL 11.50	20010156-004		SOLID

Analysis Results

20010156				Project ID
001	002	003	004	Sample ID
1-166 SL 0.50	1-166 SL 4.20	1-166 SL 8.37	1-166 SL 11.50	Customer ID
SOLID	SOLID	SOLID	SOLID	Sample Type
				Sampling Date
				Accred
Analysis	Method Code	MDL	Units	
pH Units (BS1377)	WSLM50	1	pH units	N
Sulphur as S (BRE)	TSBRE1	0.005	% m/m	N
Water Soluble Sulphate as SO4	ICPWSS	10	mg/l	U
Acid Soluble Sulphate as SO4	ICPACIDS	20	mg/kg	U
%Dry Matter Under 2mm	CLANDPREP	0.1	%	N
Total Moisture at 35°C	CLANDPREP	0.1	%	N
Description of Solid Material	CLANDPREP		-	N



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010156

Date Issued: 31/01/2020

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ICPACIDS	METALS	Air Dried & Ground
ICPWSS	METALS	Air Dried & Ground
TSBRE1	INORGANIC	Air Dried & Ground
WSLM50	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010156

Date Issued: 31/01/2020

Additional Information

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- N = Unaccredited analysis

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- ND = Results cannot be determined

End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010157

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Report Number: 20010157

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 1

Date Received: 17/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

Account Manager
Katherine Smith
01283 204384

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010157

Date Issued: 31/01/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
1-208 SL 1.20	20010157-001		SOLID
1-208 SL 6.20	20010157-002		SOLID
1-208 SL 13.20	20010157-003		SOLID



Client: SOCOTEC Geotechnical
Project Name: D9008-19 M25 Jct 10
Project No: 20010157
Date Issued: 31/01/2020

Analysis Results

20010157				Project ID
				Sample ID
				Customer ID
				Sample Type
				Sampling Date
				Accred
Analysis	Method Code	MDL	Units	
pH Units (BS1377)	WSLM50	1	pH units	N
Sulphur as S (BRE)	TSBRE1	0.005	% m/m	N
Water Soluble Sulphate as SO4	ICPWSS	10	mg/l	U
Acid Soluble Sulphate as SO4	ICPACIDS	20	mg/kg	U
%Dry Matter Under 2mm	CLANDPREP	0.1	%	N
Total Moisture at 35°C	CLANDPREP	0.1	%	N
Description of Solid Material	CLANDPREP		-	N





Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010157

Date Issued: 31/01/2020

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ICPACIDS	METALS	Air Dried & Ground
ICPWSS	METALS	Air Dried & Ground
TSBRE1	INORGANIC	Air Dried & Ground
WSLM50	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010157

Date Issued: 31/01/2020

Additional Information

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End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010158

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Report Number: 20010158

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 1

Date Received: 17/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

A handwritten signature in black ink, appearing to read 'K. Smith'.

Account Manager
Katherine Smith
01283 204384

A handwritten signature in black ink, appearing to read 'R. Batham'.

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010158

Date Issued: 31/01/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
1-341 SL 1.70	20010158-001		SOLID
1-341 SL 9.20	20010158-002		SOLID

Analysis Results

Project ID				20010158			
Sample ID				002			
Customer ID				1-341 SL 1.70			
Sample Type				SOLID			
Sampling Date				SOLID			
Accred				SOLID			
Method Code				SOLID			
MDL				4.7			
Units				pH units			
pH Units (BS1377)				N			
WSLM50				4.7			
TSBRE1				0.039			
Sulphur as S (BRE)				0.025			
ICPWSS				40			
Water Soluble Sulphate as SO4				21			
ICPACIDS				186			
Acid Soluble Sulphate as SO4				122			
CLANDPREP				<0.1			
%Dry Matter Under 2mm				<0.1			
CLANDPREP				9.2			
Total Moisture at 35°C				21.5			
CLANDPREP				SAND			
Description of Solid Material				SILT			



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010158

Date Issued: 31/01/2020

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ICPACIDS	METALS	Air Dried & Ground
ICPWSS	METALS	Air Dried & Ground
TSBRE1	INORGANIC	Air Dried & Ground
WSLM50	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010158

Date Issued: 31/01/2020

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End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010159

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Report Number: 20010159

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 1

Date Received: 17/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

Account Manager
Katherine Smith
01283 204384

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010159

Date Issued: 31/01/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
1-333 SL 0.60	20010159-001		SOLID
1-333 SL 5.00	20010159-002		SOLID
1-333 SL 8.90	20010159-003		SOLID
1-333 SL 12.90	20010159-004		SOLID



Client: SOCOTEC Geotechnical
Project Name: D9008-19 M25 Jct 10
Project No: 20010159
Date Issued: 31/01/2020

Analysis Results

20010159									
Project ID		001		002		003		004	
Sample ID		1-333 SL 0.60		1-333 SL 5.00		1-333 SL 8.90		1-333 SL 12.90	
Customer ID									
Sample Type		SOLID		SOLID		SOLID		SOLID	
Sampling Date									
Analysis		Method Code		MDL		Units		Accred	
	pH Units (BS1377)	WSLM50		1		pH units		N	
	Sulphur as S (BRE)	TSBRE1		0.005		% m/m		N	
	Water Soluble Sulphate as SO4	ICPWSS		10		mg/l		U	
	Acid Soluble Sulphate as SO4	ICPACIDS		20		mg/kg		U	
	%Dry Matter Under 2mm	CLANDPREP		0.1		%		N	
	Total Moisture at 35°C	CLANDPREP		0.1		%		N	
	Description of Solid Material	CLANDPREP				-		N	





Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010159

Date Issued: 31/01/2020

<u>Deviating Sample Report</u>			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time
Sample Reference	Text ID	Reported Name							

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ICPACIDS	METALS	Air Dried & Ground
ICPWSS	METALS	Air Dried & Ground
TSBRE1	INORGANIC	Air Dried & Ground
WSLM50	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010159

Date Issued: 31/01/2020

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End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010203

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 2

Date Received: 22/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

Account Manager
Katherine Smith
01283 204384

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010203

Date Issued: 31/01/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
1-264 1.50-1.78 B102 SL 1.50	20010203-001		SOLID
1-264 7.80-8.80 D25 SL 7.80	20010203-002		SOLID



Client: SOCOTEC Geotechnical
Project Name: D9008-19 M25 Jct 10
Project No: 20010203
Date Issued: 31/01/2020

Analysis Results

[illegible]



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010203

Date Issued: 31/01/2020

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ICPACIDS	METALS	Air Dried & Ground
ICPWSS	METALS	Air Dried & Ground
TSBRE1	INORGANIC	Air Dried & Ground
WSLM50	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010203

Date Issued: 31/01/2020

Additional Information

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- N = Unaccredited analysis

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- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010216

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 4

Date Received: 22/01/2020

Analysis Date: 31/01/2020

Date Issued: 31/01/2020

Job Status: Complete

Account Manager
Katherine Smith
01283 204384

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010216

Date Issued: 31/01/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
1-748 1.70 D103 SL 1.70	20010216-001		SOLID
1-748 2.00 D105 SL 2.00	20010216-002		SOLID
1-748 6.20-6.65 D118 SL 6.20	20010216-003		SOLID
1-748 9.50-9.95 D130 SL 9.50	20010216-004		SOLID

Analysis Results

20010216									
Project ID									
Sample ID									
Customer ID									
Sample Type									
Sampling Date									
Method Code									
MDL									
Units									
Accred									
Analysis	pH Units (BS1377)	WSLM50	1		pH units	N			
	Sulphur as S (BRE)	TSBRE1	0.005		% m/m	N			
	Organic Matter	ORGMAT	0.2		% m/m	N			
	Water Soluble Sulphate as SO4	ICPWSS	10		mg/l	U			
	Acid Soluble Sulphate as SO4	ICPACIDS	20		mg/kg	U			
	%Dry Matter Under 2mm	CLANDPREP	0.1		%	N			
	Total Moisture at 35°C	CLANDPREP	0.1		%	N			
	Description of Solid Material	CLANDPREP			-	N			



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010216

Date Issued: 31/01/2020

<u>Deviating Sample Report</u>			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time
Sample Reference	Text ID	Reported Name							

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ICPACIDS	METALS	Air Dried & Ground
ICPWSS	METALS	Air Dried & Ground
ORGMAT	INORGANIC	Air Dried & Ground
TSBRE1	INORGANIC	Air Dried & Ground
WSLM50	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010216

Date Issued: 31/01/2020

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105° c

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation, if applicable further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010217

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Report Number: 20010217

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 1

Date Received: 22/01/2020

Analysis Date: 29/01/2020

Date Issued: 29/01/2020

Job Status: Complete

A handwritten signature in black ink, appearing to read 'K. Smith'.

Account Manager
Katherine Smith
01283 204384

A handwritten signature in black ink, appearing to read 'R. Batham'.

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010217

Date Issued: 29/01/2020

Samples Analysed

Sample Reference
1-206 1.40 D11 SL 1.40

Text ID
20010217-001

Sample Date

Sample Type
SOLID



Client: SOCOTEC Geotechnical
Project Name: D9008-19 M25 Jct 10
Project No: 20010217
Date Issued: 29/01/2020

Analysis Results

Analysis	Project ID		20010217	
	Sample ID		001	
	Customer ID		1-206 1.40 D11 SL 1.40	
	Sample Type		SOLID	
	Sampling Date			
	Accred			
	MDL		0.2	
Method Code		Units		
Organic Matter	ORGMAT	% m/m	N	
Total Moisture at 35°C	CLANDPREP	%	N	
Description of Solid Material	CLANDPREP	-	N	
			SAND	



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010217

Date Issued: 29/01/2020

Deviating Sample Report

			Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time
Sample Reference	Text ID	Reported Name							

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ORGMAT	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010217

Date Issued: 29/01/2020

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105° c

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation, if applicable further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

End of Certificate of Analysis



Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20010276

Client: SOCOTEC Geotechnical

Quote Number: BEC19114872

Project Reference: SOCOTEC UK Wokingham

Site Name: D9008-19 M25 Jct 10

Contact: William Riggs

Address: Glossop House
Hogwood Lane Industrial Estate
Finchampstead
Wokingham

Post Code: RG40 4QW

E-Mail: william.riggs@socotec.com

Phone No: 01183 040379

Number of Samples Received: 1

Date Received: 27/01/2020

Analysis Date: 05/02/2020

Date Issued: 05/02/2020

Job Status: Complete

Account Manager
Jacqui Hannah

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010276

Date Issued: 05/02/2020

Samples Analysed

Sample Reference

1-208 D137

Text ID

20010276-001

Sample Date

Sample Type

SOLID



Client: SOCOTEC Geotechnical
Project Name: D9008-19 M25 Jct 10
Project No: 20010276
Date Issued: 05/02/2020

Analysis Results

Analysis	Project ID		20010276	
	Sample ID		001	
	Customer ID		1-208 D137	
	Sample Type		SOLID	
	Sampling Date			
	Accred			
	Method Code	MDL	Units	
	pH Units (BS1377)	1	pH units	6.4
	Sulphur as S (BRE)	0.005	% m/m	0.509
	Water Soluble Sulphate as SO4	10	mg/l	149
	Acid Soluble Sulphate as SO4	20	mg/kg	513
	%Dry Matter Under 2mm	0.1	%	<0.1
	Total Moisture at 35°C	0.1	%	23.7
	Description of Solid Material		-	CLAY





Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010276

Date Issued: 05/02/2020

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
CLANDPREP	PHYS	As Received
ICPACIDS	METALS	Air Dried & Ground
ICPWSS	METALS	Air Dried & Ground
TSBRE1	INORGANIC	Air Dried & Ground
WSLM50	INORGANIC	Air Dried & Ground



Client: SOCOTEC Geotechnical

Project Name: D9008-19 M25 Jct 10

Project No: 20010276

Date Issued: 05/02/2020

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105° c

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation, if applicable further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

End of Certificate of Analysis

TEST REPORT



1252

Report No. EXR/293207 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 26-Oct-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 30-Dec-2019

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 30-Dec-2019

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No W293207

Consignment No W162575
Date Logged 26-Oct-2019
In-House Report Due 03-Jan-2019

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID		CUSTSERV	ICP/WT/VAR	KONENS	WSLM3
		Matrix Type	Sampled				
EX/2012841	1-341 14.00	Test Method Accredited to ISO17025 Groundwater					
			23/10/19				

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▷ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : W29_3207

TEST REPORT

Report No. EXR/293326 (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10


The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 29-Oct-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 30-Dec-2019

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham



Operations Manager
Energy & Waste Services

Date of Issue: 30-Dec-2019

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No W2933326

Consignment No W162698
Date Logged 29-Oct-2019
In-House Report Due 03-Jan-2019

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID		CUSTSERV	ICP/WAT/VAR	KONENS	WSLM3
		Matrix Type	Sampled				
EX/2013275	1-333 11.50	Test Method Accredited to ISO17025 Unclassified	25/10/19		Report A		
					Total Sulphur as SO4 (Diss) BS1377		
					Magnesium as Mg (Dissolved) VAR	✓	E
					Chloride as Cl (Kone)	✓	E
					Nitrate as N (Kone calc)	✓	E
					pH units	✓	E

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
	Analysis Subcontracted - Note: due date may vary
	^

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▷ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : W29_3326

TEST REPORT

Report No. EXR/294690 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 3 samples described in this report were registered for analysis by SOCOTEC UK Limited on 20-Nov-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 23-Dec-2019

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham



Operations Manager
Energy & Waste Services

Date of Issue: 23-Dec-2019

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No W294690

Consignment No W163761
Date Logged 20-Nov-2019
In-House Report Due 06-Jan-2020

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	Matrix Type	MethodID		CUSTSERV	ICP/WT/VAR	KONENS	WSLM56
			Sampled		Report A	Total Sulphur as SO4 (Diss) VAR		pH units (BS1377)
EX/2018892	1-206 7.50	Unclassified	12/11/19			✓	✓	
EX/2018893	1-206 12.50	Unclassified	13/11/19			E	E	EF
EX/2018894	1-203	Unclassified	13/11/19			E	E	EF

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	WSLM56	As Received	Determination of the pH of water samples by pH probe

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : W29_4690

TEST REPORT

Report No. EXR/296293 (Ver. 1)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 11-Dec-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 19-Dec-2019

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Analytical and Deviating Sample Overview (Page 3)
Table of Method Descriptions (Page 4)
Table of Report Notes (Page 5)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham



Operations Manager
Energy & Waste Services

Date of Issue: 19-Dec-2019

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected.

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No W296293

Consignment No W165093
Date Logged 11-Dec-2019
In-House Report Due 20-Dec-2019

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

WSLM3	pH units			✓	D
ICPWATVAR	Total Sulphur as SO4 (Diss) VAR			✓	D
CUSTSERV	Report A				D
MethodID	Sampled				D
	Matrix Type				Unclassified
Description				1-254 6.00	
ID Number				EX/2025647	

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▷ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham
Site : D9008-19 M25 Jct 10
Report Number : W29_6293



APPENDIX F

GEOENVIRONMENTAL LABORATORY TEST RESULTS

Test Report – Soil

EFS/199273, EFS/199373, EFS/199374, EFS/199445
EFS/199626, EFS/199627, EFS/199790, EFS/199791
EFS/199792, EFS/199793, EFS/199794, EFS/200030
EFS/200031, EFS/200133, EFS/200134, EFS/200180
EFS/200183, EFS/200184, EFS/200288, EFS/200295
EFS/200348, EFS/200349, EFS/200350, EFS/200505
EFS/200506, EFS/200507, EFS/200634, EFS/200687
EFS/200688, EFS/200689, EFS/200690, EFS/200691
EFS/200692, EFS/200752, EFS/200785, EFS/200786
EFS/200787, EFS/200810, EFS/200811, EFS/200844
EFS/200845, EFS/200938, EFS/200940, EFS/200941
EFS/201075, EFS/201108, EFS/201258, EFS/201259
EFS/201260, EFS/201261, EFS/201262, EFS/201418
EFS/201419, EFS/201420, EFS/201450, EFS/201489
EFS/201596, EFS/201597, EFS/201623, EFS/201625
EFS/201626, EFS/201629, EFS/201659, EFS/201660
EFS/201774, EFS/201775, EFS/201776, EFS/201982
EFS/201983, EFS/201984, EFS/201985, EFS/201986
EFS/202025, EFS/202026, EFS/202027, EFS/202204
EFS/202205, EFS/202350, EFS/202351, EFS/202461
EFS/202513, EFS/202596, EFS/202602, EFS/202755
EFS/202756, EFS/202796, EFS/202893, EFS/202894
EFS/203140, EFS/203141, EFS/203142, EFS/203143
EFS/203144, EFS/203152, EFS/203270, EFS/203276
EFS/203310, EFS/203311, EFS/203501, EFS/203634
EFS/203635, EFS/203636, EFS/203686, EFS/203687
EFS/203814, EFS/203877, EFS/203878, EFS/204046
EFS/204047, EFS/204048, EFS/204055, EFS/204247
EFS/204251, EFS/204252, EFS/204292, EFS/204317
EFS/204318, EFS/204752, EFS/204753, EFS/205125
EFS/205126, EFS/205127, EFS/205128, EFS/205268
EFS/205269, EFS/205447, EFS/205451

**APPENDIX F****GEOENVIRONMENTAL LABORATORY TEST RESULTS (CONTINUED)****Test Report – Leachate**

EXR/284831, EXR/284898, EXR/285267, EXR/285268
EXR/285579, EXR/285580, EXR/285583, EXR/286079
EXR/286260, EXR/286419, EXR/286731, EXR/286861
EXR/286864, EXR/286938, EXR/287161, EXR/287311
EXR/287314, EXR/287608, EXR/287609, EXR/287700
EXR/287705, EXR/287709, EXR/287714, EXR/287718
EXR/287871, EXR/287983, EXR/288014, EXR/288016
EXR/288094, EXR/288096, EXR/288288, EXR/288295
EXR/288300, EXR/288582, EXR/288908, EXR/288910
EXR/288912, EXR/288913, EXR/289297, EXR/289298
EXR/289362, EXR/289476, EXR/289686, EXR/289692
EXR/289760, EXR/289770, EXR/289776, EXR/289799
EXR/289856, EXR/289859, EXR/290195, EXR/290201
EXR/290204, EXR/290687, EXR/290688, EXR/290689
EXR/290690, EXR/290803, EXR/290804, EXR/290808
EXR/291187, EXR/291190, EXR/291496, EXR/291819
EXR/292146, EXR/292464, EXR/292465, EXR/292773
EXR/292776, EXR/293353, EXR/293362, EXR/293368
EXR/293733, EXR/293833, EXR/294329, EXR/294693
EXR/294696, EXR/294847, EXR/295168, EXR/295305
EXR/295740, EXR/296388, EXR/296532, EXR/296583
EXR/296586, EXR/297989, EXR/299090, EXR/299094
EXR/299096, EXR/299508, EXR/300117, EXR/300132

Test Report – Water

EXR/294045, EXR/294907, EXR/295124, EXR/295482
EXR/301247, EXR/301599

TEST REPORT



Report No. EFS/199273M (Ver. 2)

SOCOTEC UK Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 2 samples described in this report were registered for analysis by SOCOTEC UK Limited on 28-May-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 30-Apr-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited. Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by SOCOTEC UK Limited.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 6)
Analytical and Deviating Sample Overview (Pages 7 to 8)
Table of Method Descriptions (Page 9)
Table of Report Notes (Page 10)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim

Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 30-Apr-2020

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)

Tests marked '^' have been subcontracted to another laboratory.

(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.

All results are reported on a dry weight basis at 105°C unless otherwise stated. (except QC samples)

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Sample Analysis

SOCOTEC UK Ltd Environmental Chemistry

Analytical and Deviating Sample Overview

S199273M

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S199273M

Consignment No S85206
Date Logged 28-May-2019
In-House Report Due 06-Jun-2019

Please note the results for any subcontracted analysis (identified with a 'u') is likely to take up to an additional five working days.

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
	Analysis Subcontracted - Note: due date may vary

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S199273M

Consignment No S85206
Date Logged 28-May-2019
In-House Report Due 06-Jun-2019

Please note the results for any subcontracted analysis (identified with a 'u') is likely to take up to an additional five working days.

WSLM59	Total Organic Carbon			✓					
TPHUSSI	TPH by GCFID (AR/Si)			✓					
	TPH Aro Band >C8-C40			✓					
	TPH Aro Band >C8-C10			✓					
	TPH Aro Band >C21-C35			✓					
	TPH Aro Band >C16-C21			✓					
	TPH Aro Band >C12-C16			✓					
	TPH Aro Band >C10-C12			✓					
	TPH Ali Band >C8-C40			✓					
	TPH Ali Band >C8-C10			✓					
	TPH Ali Band >C21-C35			✓					
	TPH Ali Band >C16-C21			✓					
	TPH Ali Band >C12-C16			✓					
	TPH Ali Band >C10-C12			✓					
	TMSS	Tot.Moisture @ 105C			✓				
	SFAS	Sulphide as S (AR)							
SFAPI	Phenol Index.(AR)			✓					
MethodID	Sampled				21/05/19	21/05/19			
Description					1-528 0.50				
					1-529 0.70				
ID Number					CL/1960696	CL/1960697			

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
u	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	AMMAR	As Received	Determination of Exchangeable Ammonium in Soil using potassium chloride extraction, discrete colorimetric detection
Soil	BTEXHSA	As Received	Determination of Benzene, Toluene, Ethyl benzene and Xylenes (BTEX) by Headspace GCFID
Soil	FOCS	Oven Dried @ < 35°C	Calculation of Soil Organic Matter content from Organic Carbon content of soil samples
Soil	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPBOR	Oven Dried @ < 35°C	Determination of Boron in soil samples by hot water extraction followed by ICPOES detection
Soil	ICPMSS	Oven Dried @ < 35°C	Determination of Metals in Marine Sediments and Soil samples by aqua regia digestion followed by ICPMS detection
Soil	ICPSOIL	Oven Dried @ < 35°C	Determination of Metals in soil samples by aqua regia digestion followed by ICPOES detection
Soil	KONECR	Oven Dried @ < 35°C	Determination of Chromium vi in soil samples by water extraction followed by colorimetric detection
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PHSOIL	As Received	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.
Soil	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Soil	SFAS	As Received	Segmented flow analysis with colorimetric detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105°C by loss on oven drying gravimetric analysis (% based upon wet weight)
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions.
Soil	WSLM59	Oven Dried @ < 35°C	Determination of Organic Carbon in soil using sulphurous Acid digestion followed by high temperature combustion and IR detection

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S19_9273

Note: major constituent in upper case

TEST REPORT



Report No. EFS/199373M (Ver. 2)

SOCOTEC UK Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 2 samples described in this report were registered for analysis by SOCOTEC UK Limited on 31-May-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 26-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited. Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by SOCOTEC UK Limited.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 7)
Table of WAC Analysis Results (Page 8)
Analytical and Deviating Sample Overview (Pages 9 to 11)
Table of Method Descriptions (Pages 12 to 13)
Table of Report Notes (Page 14)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim

Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 26-Mar-2020

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)

Tests marked '^' have been subcontracted to another laboratory.

(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.

All results are reported on a dry weight basis at 105°C unless otherwise stated. (except QC samples)

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

Units : Method Codes : Method Reporting Limits : Accreditation Code:		mg/kg ICPMSS	mg/kg ICPMSS	mg/kg ICPSOIL	mg/kg ICPSOIL	mg/kg KONECR	% LOI(%MM)	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS	mg/kg PAHMSUS
LAB ID Number CL/		1961082	1961083																
Client Sample Description		1-524 ES 2 0.50	1-524 ES 4 1.00																
Sample Date		23-May-19	23-May-19																
Vanadium (MS)																			
Zinc (MS)																			
Barium.																			
Beryllium.																			
Chromium vi:																			
L.O.I. % @ 450C																			
Acenaphthene																			
Acenaphthylene																			
Anthracene																			
Benzo(a)anthracene																			
Benzo(a)pyrene																			
Benzo(b)fluoranthene																			
Benzo(ghi)perylene																			
Benzo(k)fluoranthene																			
Chrysene																			
Coronene																			



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Client Name
Contact

SOCOTEC UK Wokingham
William Riggs

Sample Analysis

Date Printed	26-Mar-2020
Report Number	EFS/199373M
Table Number	1

D9008-19 M25 Jct 10

Units : Method Codes : Method Reporting Limits : Accreditation Code:										Sample Analysis									
Client Sample Description										Sample Analysis									
LAB ID Number CL/										Sample Analysis									
Sample Date										Date Printed									
1961082										Report Number									
1961083										Table Number									
										1									
										</									

WASTE ACCEPTANCE CRITERIA TESTING

BSEN 12457/3

Client	SOCOTEC UK Wokingham				Leaching Data	
					Weight of sample (kg)	0.262
Contact	William Riggs				Moisture content @ 105°C (% of Wet Weight)	14.9
					Equivalent Weight based on drying at 105°C (kg)	0.225
Site	D9008-19 M25 Jct 10				Volume of water required to carry out 2:1 stage (litres)	0.413
					Fraction of sample above 4 mm %	0.000
Sample Description		Report No	Sample No	Issue Date	Fraction of non-crushable material %	0.000
1-524 ES 2 0.50		s19_9373M	CL/1961082	11-Jun-19	Volume to undertake analysis (2:1 Stage) (litres)	0.300
					Weight of Deionised water to carry out 8:1 stage (kg)	1.650

Note: The >4mm fraction is crushed using a disc mill

Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	1.38	3	5	6
N	LOI450	Loss on Ignition (%)	4.4			10
U	BTEXHSA	Sum of BTEX (mg/kg)	<0.0707	6		
U	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.042	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	51.5	500		
N	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.60	100		
U	PHSOIL	pH (pH units)	5		>6	
N	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7	<0.04		To be evaluated	To be evaluated

Accreditation	Method Code	Leachate Analysis	2:1 Leachate	8:1 Leachate	Calculated amount leached @ 2:1	Calculated cumulative amount leached @ 10:1	Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1		
			mg/l except °°		mg/kg (dry weight)		mg/kg (dry weight)		
U	WSLM3	pH (pH units) °°	4.6	5.4	Calculated data not UKAS Accredited				
U	WSLM2	Conductivity (µs/cm) °°	<100	<100					
U	ICPMSW	Arsenic	0.002	0.001	0.004	0.01	0.5	2	25
U	ICPWATVAR	Barium	0.03	<0.01	0.06	<0.1	20	100	300
U	ICPMSW	Cadmium	0.0006	0.0002	0.0012	0.003	0.04	1	5
U	ICPMSW	Chromium	0.006	0.003	0.012	0.03	0.5	10	70
U	ICPMSW	Copper	0.002	0.002	0.004	0.02	2	50	100
U	ICPMSW	Mercury	<0.0001	<0.0001	<0.0002	<0.001	0.01	0.2	2
U	ICPMSW	Molybdenum	<0.001	<0.001	<0.002	<0.01	0.5	10	30
U	ICPMSW	Nickel	0.002	<0.001	0.004	<0.01	0.4	10	40
U	ICPMSW	Lead	0.013	0.007	0.026	0.08	0.5	10	50
U	ICPMSW	Antimony	<0.001	<0.001	<0.002	<0.01	0.06	0.7	5
U	ICPMSW	Selenium	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
U	ICPMSW	Zinc	0.159	0.038	0.318	0.54	4	50	200
U	KONENS	Chloride	6	2	12	25	800	15000	25000
U	ISEF	Fluoride	<0.1	<0.1	<0.2	<1	10	150	500
U	ICPWATVAR	Sulphate as SO4	25	4	50	68	1000	20000	50000
N	WSLM27	Total Dissolved Solids	73.3	<60	147	<618	4000	60000	100000
U	SFAPI	Phenol Index	<0.05	<0.05	<0.1	<0.5	1		
N	WSLM13	Dissolved Organic Carbon	19	13	38	138	500	800	1000

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S199373M

Consignment No S85309
Date Logged 31-May-2019
In-House Report Due 11-Jun-2019

Please note the results for any subcontracted analysis (identified with a 'u') is likely to take up to an additional five working days.

ICPMSS	Zinc (MS)	✓		
	Vanadium (MS)			
	Selenium (MS)	✓		
	Nickel (MS)	✓		
	Mercury (MS)	✓		
	Lead (MS)	✓		
	Copper (MS)	✓		
	Chromium (MS)	✓		
	Cadmium (MS)	✓		
	Arsenic (MS)	✓		
ICPBOR	Boron (H2O Soluble)	✓		
ICPACIDS	SO4-- (acid sol)	✓		
GROHSA	GRO (AA) by HSA GC-FID	✓		
FOCS	S.O.M. % (Calc)			
FOCCALC	F.O.C.	✓		
CustServ	REPORT A			
CEN Leachate	Fraction of sample above 4 mm %			
	Fraction of non-crushable material %			
	CEN Leac(P)C			
	CEN Leac(P)2			
	CEN Leac(P)1			
BTXHSA	MTBE (µg/kg)	✓		
	BTEX-HSA + MTBE analysis	✓		
ANC	Acid Neut. Capacity			
AMMAR	Exchange.Ammonium AR	✓		
MethodID	Sampled		23/05/19	23/05/19
	Description		1-524 0.50	
			1-524 1.00	
	ID Number		CL/1961082	CL/1961083

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
u	Analysis Subcontracted - Note: due date may vary

\$199373M

Please note the results for any subcontracted analysis (identified with a 'Λ') is likely to take up to an additional five working days.

CL/1961082	1-524 0.50	23/05/19
CL/1961083	1-524 1.00	23/05/19

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time

	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S199373M

Consignment No S85309
Date Logged 31-May-2019
In-House Report Due 11-Jun-2019

Please note the results for any subcontracted analysis (identified with a 'u') is likely to take up to an additional five working days.

ID Number	Description	MethodID	TPHUSSI	TPHUSSI			WSLM59
		Sampled	TPH Aro Band >C21-C35			TPH Aro Band >C8-C10	TPH Aro Band >C8-C40
			TPH by GCFID (AR/Si)			Total Organic Carbon	
CL/1961082	1-524 0.50	23/05/19	✓	✓	✓	✓	✓
CL/1961083	1-524 1.00	23/05/19					

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
u	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	AMMAR	As Received	Determination of Exchangeable Ammonium in Soil using potassium chloride extraction, discrete colorimetric detection
Soil	ANC	Oven Dried @ < 35°C	Quantitative digestion with Hydrochloric Acid back titration with 1M Sodium Hydroxide to pH 7
Soil	BTEXHSA	As Received	Determination of Benzene, Toluene, Ethyl benzene and Xylenes (BTEX) by Headspace GCFID
Soil	CEN Leachate	As Received	Determination of Oversize and Inert Material Content prior to leaching sample
Soil	FOCS	Oven Dried @ < 35°C	Calculation of Soil Organic Matter content from Organic Carbon content of soil samples
Soil	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPBOR	Oven Dried @ < 35°C	Determination of Boron in soil samples by hot water extraction followed by ICPOES detection
Soil	ICPMSS	Oven Dried @ < 35°C	Determination of Metals in Marine Sediments and Soil samples by aqua regia digestion followed by ICPMS detection
Soil	ICPSOIL	Oven Dried @ < 35°C	Determination of Metals in soil samples by aqua regia digestion followed by ICPOES detection
Soil	KONECR	Oven Dried @ < 35°C	Determination of Chromium vi in soil samples by water extraction followed by colorimetric detection
Soil	LOI(%MM)	Oven Dried @ < 35°C	Determination of loss on ignition for soil samples at specified temperature by gravimetry
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PCBECD	As Received	Determination of Polychlorinated Biphenyl (PCB) congeners/aroclors by hexane/acetone extraction followed by GCECD detection
Soil	PHSOIL	As Received	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.
Soil	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Soil	SFAS	As Received	Segmented flow analysis with colorimetric detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105°C by loss on oven drying gravimetric analysis (% based upon wet weight)
Soil	TPHFIDUS	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection.
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	WSLM59	Oven Dried @ < 35°C	Determination of Organic Carbon in soil using sulphurous Acid digestion followed by high temperature combustion and IR detection
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using ICPMS
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	ISEF	As Received	Determination of Fluoride in water samples by Ion Selective Electrode (ISE)
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	SFAP1	As Received	Segmented flow analysis with colorimetric detection
Water	WSLM13	As Received	Instrumental analysis using acid/persulphate digestion and non-dispersive IR detection
Water	WSLM2	As Received	Determination of the Electrical Conductivity ($\mu\text{S}/\text{cm}$) by electrical conductivity probe.
Water	WSLM27	As Received	Gravimetric Determination
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S19_9373

Note: major constituent in upper case

TEST REPORT



Report No. EFS/199374M (Ver. 2)

SOCOTEC UK Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 2 samples described in this report were registered for analysis by SOCOTEC UK Limited on 31-May-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 26-Mar-2020

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited. Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by SOCOTEC UK Limited.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 7)
Table of WAC Analysis Results (Page 8)
Analytical and Deviating Sample Overview (Pages 9 to 11)
Table of Method Descriptions (Pages 12 to 13)
Table of Report Notes (Page 14)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 26-Mar-2020

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)

Tests marked '^' have been subcontracted to another laboratory.

(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.

All results are reported on a dry weight basis at 105°C unless otherwise stated. (except QC samples)

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

WASTE ACCEPTANCE CRITERIA TESTING

BSEN 12457/3

Client	SOCOTEC UK Wokingham	Leaching Data			
		Weight of sample (kg)			0.281
Contact	William Riggs	Moisture content @ 105°C (% of Wet Weight)			19.9
		Equivalent Weight based on drying at 105°C (kg)			0.225
Site	D9008-19 M25 Jct 10	Volume of water required to carry out 2:1 stage (litres)			0.394
		Fraction of sample above 4 mm %			0.000
Sample Description	Report No	Sample No	Issue Date	Fraction of non-crushable material %	0.000
1-529 ES 11 2.70	s19_9374M	CL/1961085	10-Jun-19	Volume to undertake analysis (2:1 Stage) (litres)	0.300
				Weight of Deionised water to carry out 8:1 stage (kg)	1.650

Note: The >4mm fraction is crushed using a disc mill

Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	0.22	3	5	6
N	LOI450	Loss on Ignition (%)	1.2			10
U	BTEXHSA	Sum of BTEX (mg/kg)	<0.075	6		
U	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.042	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	27.1	500		
N	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.70	100		
U	PHSOIL	pH (pH units)	5.2		>6	
N	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7	0.48		To be evaluated	To be evaluated

Accreditation	Method Code	Leachate Analysis	2:1 Leachate	8:1 Leachate	Calculated amount leached @ 2:1	Calculated cumulative amount leached @ 10:1	Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1		
			mg/l except °°		mg/kg (dry weight)		mg/kg (dry weight)		
U	WSLM3	pH (pH units) °°	4.7	5.8	Calculated data not UKAS Accredited				
U	WSLM2	Conductivity (µs/cm) °°	234	<100					
U	ICPMSW	Arsenic	<0.001	<0.001	<0.002	<0.01	0.5	2	25
U	ICPWATVAR	Barium	0.12	0.06	0.24	0.7	20	100	300
U	ICPMSW	Cadmium	0.0072	0.0028	0.0144	0.034	0.04	1	5
U	ICPMSW	Chromium	<0.001	<0.001	<0.002	<0.01	0.5	10	70
U	ICPMSW	Copper	0.002	0.003	0.004	0.03	2	50	100
U	ICPMSW	Mercury	<0.0001	<0.0001	<0.0002	<0.001	0.01	0.2	2
U	ICPMSW	Molybdenum	<0.001	<0.001	<0.002	<0.01	0.5	10	30
U	ICPMSW	Nickel	0.092	0.081	0.184	0.82	0.4	10	40
U	ICPMSW	Lead	0.255	0.078	0.51	1.02	0.5	10	50
U	ICPMSW	Antimony	<0.001	<0.001	<0.002	<0.01	0.06	0.7	5
U	ICPMSW	Selenium	0.006	0.003	0.012	0.03	0.1	0.5	7
U	ICPMSW	Zinc	1.257	0.455	2.514	5.62	4	50	200
U	KONENS	Chloride	6	3	12	34	800	15000	25000
U	ISEF	Fluoride	<0.1	<0.1	<0.2	<1	10	150	500
U	ICPWATVAR	Sulphate as SO4	80	33	160	393	1000	20000	50000
N	WSLM27	Total Dissolved Solids	183	65.6	366	813	4000	60000	100000
U	SFAPI	Phenol Index	<0.05	<0.05	<0.1	<0.5	1		
N	WSLM13	Dissolved Organic Carbon	2	1	4	11	500	800	1000

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S199374M

Consignment No S85312
Date Logged 31-May-2019
In-House Report Due 11-Jun-2019

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled	AMMAR	ANC	BTEXHSA	CEN Leachate	CustServ	FOCCALC	FOCS	GROHSA	ICPACIDS	ICPBOR	ICPMSS				
								Fraction of sample above 4 mm %										
								Fraction of non-crushable material %										
								CEN Leac(P)C										
								CEN Leac(P)2										
								CEN Leac(P)1										
							BTEXHSA	MTBE (µg/kg)	✓									
								BTEX-HSA + MTBE analysis	✓									
							ANC	Acid Neut. Capacity										
							AMMAR	Exchange.Ammonium AR	✓									
CL/1961084	1-529 2.00		24/05/19															
CL/1961085	1-529 2.70		28/05/19															

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
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C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S199374M

Consignment No S85312
Date Logged 31-May-2019
In-House Report Due 11-Jun-2019

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled					
CL/1961084	1-529 2.00		24/05/19	TPHUSI	TPH Aro Band >C16-C21	✓		
				TPH Aro Band >C12-C16	✓			
				TPH Aro Band >C10-C12	✓			
				TPH Ali Band >C8-C40	✓			
				TPH Ali Band >C8-C10	✓			
				TPH Ali Band >C21-C35	✓			
				TPH Ali Band >C16-C21	✓			
				TPH Ali Band >C12-C16	✓			
				TPH Ali Band >C10-C12	✓			
CL/1961085	1-529 2.70		28/05/19	TPHFIDUS	TPH by GCFID (AR)	✓		
				TPH Band (>C10-C40)	✓			
				TMSS	Tot.Moisture @ 105C	✓		
				SFAS	Sulphide as S (AR)			
				SFAPI	Phenol Index.(AR)	✓		
					Cyanide(Total) (AR)	✓		
					Cyanide(Free) (AR)	✓		
				PHSOIL	pH units (AR)	✓	E	
				PCBECD	PCB-7 Congeners Analysis	✓		
				PAHMSUS	PAH (17) by GCMS	✓		
					PAH (16) by GCMS	✓		
				MCertS	MCertS Analysis	✓		
				LOI(%MM)	L.O.I. % @ 450C			
				KONECR	Chromium vi:			
				ICPSOIL	Beryllium.	✓		
					Barium.	✓		

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

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	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

SOCOTEC UK Wokingham

D9008-19 M25 Jct 10

S199374M

Analytical and Deviating Sample Overview

Customer

Site

Report No

SOCOTEC UK Wokingham

D9008-19 M25 Jct 10

S199374M

Consignment No S85312

Date Logged 31-May-2019

In-House Report Due 11-Jun-2019

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	TPHUSSI	Sampled		
			WSLM59	Total Organic Carbon		
CL/1961084	1-529 2.00	24/05/19		TPH by GCFID (AR/Si)	✓	
				TPH Aro Band >C8-C40	✓	
				TPH Aro Band >C8-C10	✓	
				TPH Aro Band >C21-C35	✓	
CL/1961085	1-529 2.70	28/05/19				

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
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E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	AMMAR	As Received	Determination of Exchangeable Ammonium in Soil using potassium chloride extraction, discrete colorimetric detection
Soil	ANC	Oven Dried @ < 35°C	Quantitative digestion with Hydrochloric Acid back titration with 1M Sodium Hydroxide to pH 7
Soil	BTEXHSA	As Received	Determination of Benzene, Toluene, Ethyl benzene and Xylenes (BTEX) by Headspace GCFID
Soil	CEN Leachate	As Received	Determination of Oversize and Inert Material Content prior to leaching sample
Soil	FOCS	Oven Dried @ < 35°C	Calculation of Soil Organic Matter content from Organic Carbon content of soil samples
Soil	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPBOR	Oven Dried @ < 35°C	Determination of Boron in soil samples by hot water extraction followed by ICPOES detection
Soil	ICPMSS	Oven Dried @ < 35°C	Determination of Metals in Marine Sediments and Soil samples by aqua regia digestion followed by ICPMS detection
Soil	ICPSOIL	Oven Dried @ < 35°C	Determination of Metals in soil samples by aqua regia digestion followed by ICPOES detection
Soil	KONECR	Oven Dried @ < 35°C	Determination of Chromium vi in soil samples by water extraction followed by colorimetric detection
Soil	LOI(%MM)	Oven Dried @ < 35°C	Determination of loss on ignition for soil samples at specified temperature by gravimetry
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PCBECD	As Received	Determination of Polychlorinated Biphenyl (PCB) congeners/aroclors by hexane/acetone extraction followed by GCECD detection
Soil	PHSOIL	As Received	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.
Soil	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Soil	SFAS	As Received	Segmented flow analysis with colorimetric detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105°C by loss on oven drying gravimetric analysis (% based upon wet weight)
Soil	TPHFIDUS	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection.
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	WSLM59	Oven Dried @ < 35°C	Determination of Organic Carbon in soil using sulphurous Acid digestion followed by high temperature combustion and IR detection
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using ICPMS
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	ISEF	As Received	Determination of Fluoride in water samples by Ion Selective Electrode (ISE)
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	SFAP1	As Received	Segmented flow analysis with colorimetric detection
Water	WSLM13	As Received	Instrumental analysis using acid/persulphate digestion and non-dispersive IR detection
Water	WSLM2	As Received	Determination of the Electrical Conductivity ($\mu\text{S}/\text{cm}$) by electrical conductivity probe.
Water	WSLM27	As Received	Gravimetric Determination
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S19_9374

Note: major constituent in upper case

TEST REPORT



Report No. EFS/199445M (Ver. 1)

SOCOTEC UK Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 4 samples described in this report were registered for analysis by SOCOTEC UK Limited on 03-Jun-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 12-Jun-2019

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited. Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by SOCOTEC UK Limited.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 7)
Table of WAC Analysis Results (Pages 8 to 9)
Analytical and Deviating Sample Overview (Pages 10 to 12)
Table of Method Descriptions (Pages 13 to 14)
Table of Report Notes (Page 15)
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 12-Jun-2019

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)

Tests marked '^' have been subcontracted to another laboratory.

(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.

All results are reported on a dry weight basis at 105°C unless otherwise stated. (except QC samples)

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

[illegible]

[illegible]

WASTE ACCEPTANCE CRITERIA TESTING

BSEN 12457/3

Client	SOCOTEC UK Wokingham				Leaching Data	
					Weight of sample (kg)	0.242
Contact	William Riggs				Moisture content @ 105°C (% of Wet Weight)	8.0
					Equivalent Weight based on drying at 105°C (kg)	0.225
Site	D9008-19 M25 Jct 10				Volume of water required to carry out 2:1 stage (litres)	0.433
					Fraction of sample above 4 mm %	0.000
Sample Description		Report No	Sample No	Issue Date	Fraction of non-crushable material %	
1-537 ES 2 0.00		s19_9445M	CL/1961401	12-Jun-19	Volume to undertake analysis (2:1 Stage) (litres)	
					Weight of Deionised water to carry out 8:1 stage (kg)	

Note: The >4mm fraction is crushed using a disc mill

Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	1	3	5	6
N	LOI450	Loss on Ignition (%)	3			10
U	BTEXHSA	Sum of BTEX (mg/kg)	<0.0653	6		
U	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.035	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	74.7	500		
N	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.48	100		
U	PHSOIL	pH (pH units)	4.6		>6	
N	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7	0.72		To be evaluated	To be evaluated

Accreditation	Method Code	Leachate Analysis	2:1 Leachate	8:1 Leachate	Calculated amount leached @ 2:1	Calculated cumulative amount leached @ 10:1	Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1		
			mg/l except °°		mg/kg (dry weight)		mg/kg (dry weight)		
U	WSLM3	pH (pH units) °°	6.3	12.1	Calculated data not UKAS Accredited				
U	WSLM2	Conductivity (µs/cm) °°	123	48400					
U	ICPMSW	Arsenic	0.01	0.008	0.02	0.08	0.5	2	25
U	ICPWATVAR	Barium	0.03	<0.01	0.06	<0.1	20	100	300
U	ICPMSW	Cadmium	0.0002	<0.0001	0.0004	<0.001	0.04	1	5
U	ICPMSW	Chromium	0.001	<0.001	0.002	<0.01	0.5	10	70
U	ICPMSW	Copper	0.007	0.005	0.014	0.05	2	50	100
U	ICPMSW	Mercury	<0.0001	<0.0001	<0.0002	<0.001	0.01	0.2	2
U	ICPMSW	Molybdenum	<0.001	<0.001	<0.002	<0.01	0.5	10	30
U	ICPMSW	Nickel	<0.001	<0.001	<0.002	<0.01	0.4	10	40
U	ICPMSW	Lead	0.007	0.005	0.014	0.05	0.5	10	50
U	ICPMSW	Antimony	0.008	0.002	0.016	0.03	0.06	0.7	5
U	ICPMSW	Selenium	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
U	ICPMSW	Zinc	0.123	0.041	0.246	0.52	4	50	200
U	KONENS	Chloride	4	<1	8	<14	800	15000	25000
U	ISEF	Fluoride	<0.2	<0.2	<0.4	<2	10	150	500
U	ICPWATVAR	Sulphate as SO4	32	3	64	69	1000	20000	50000
N	WSLM27	Total Dissolved Solids	95.6	37700	191	326861	4000	60000	100000
U	SFAP1	Phenol Index	<0.05	<0.05	<0.1	<0.5	1		
N	WSLM13	Dissolved Organic Carbon	16	11	32	117	500	800	1000

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited

WASTE ACCEPTANCE CRITERIA TESTING

BSEN 12457/3

Client	SOCOTEC UK Wokingham				Leaching Data	
					Weight of sample (kg)	0.250
Contact	William Riggs				Moisture content @ 105°C (% of Wet Weight)	11.2
					Equivalent Weight based on drying at 105°C (kg)	0.225
Site	D9008-19 M25 Jct 10				Volume of water required to carry out 2:1 stage (litres)	0.425
					Fraction of sample above 4 mm %	0.000
Sample Description		Report No	Sample No	Issue Date	Fraction of non-crushable material %	
1-737 ES 7 0.00		s19_9445M	CL/1961403	12-Jun-19	Volume to undertake analysis (2:1 Stage) (litres)	
					Weight of Deionised water to carry out 8:1 stage (kg)	

Note: The >4mm fraction is crushed using a disc mill

Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	1.74	3	5	6
N	LOI450	Loss on Ignition (%)	4.9			10
U	BTEXHSA	Sum of BTEX (mg/kg)	<0.0677	6		
U	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.042	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	130	500		
N	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.53	100		
U	PHSOIL	pH (pH units)	4.2		>6	
N	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7	0.16		To be evaluated	To be evaluated

Accreditation	Method Code	Leachate Analysis	2:1 Leachate	8:1 Leachate	Calculated amount leached @ 2:1	Calculated cumulative amount leached @ 10:1	Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1		
			mg/l except °°		mg/kg (dry weight)		mg/kg (dry weight)		
U	WSLM3	pH (pH units) °°	3.9	12	Calculated data not UKAS Accredited				
U	WSLM2	Conductivity (µs/cm) °°	156	1280					
U	ICPMSW	Arsenic	0.077	0.021	0.154	0.28	0.5	2	25
U	ICPWATVAR	Barium	0.1	<0.01	0.2	<0.2	20	100	300
U	ICPMSW	Cadmium	0.0011	<0.0001	0.0022	<0.002	0.04	1	5
U	ICPMSW	Chromium	<0.001	<0.001	<0.002	<0.01	0.5	10	70
U	ICPMSW	Copper	<0.001	<0.001	<0.002	<0.01	2	50	100
U	ICPMSW	Mercury	<0.0001	<0.0001	<0.0002	<0.001	0.01	0.2	2
U	ICPMSW	Molybdenum	<0.001	<0.001	<0.002	<0.01	0.5	10	30
U	ICPMSW	Nickel	0.003	<0.001	0.006	<0.01	0.4	10	40
U	ICPMSW	Lead	0.014	0.006	0.028	0.07	0.5	10	50
U	ICPMSW	Antimony	0.005	0.003	0.01	0.03	0.06	0.7	5
U	ICPMSW	Selenium	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
U	ICPMSW	Zinc	0.683	0.056	1.366	1.4	4	50	200
U	KONENS	Chloride	3	<1	6	<13	800	15000	25000
U	ISEF	Fluoride	<0.2	<0.2	<0.4	<2	10	150	500
U	ICPWATVAR	Sulphate as SO4	38	4	76	85	1000	20000	50000
N	WSLM27	Total Dissolved Solids	122	1000	244	8829	4000	60000	100000
U	SFAP1	Phenol Index	<0.05	<0.05	<0.1	<0.5	1		
N	WSLM13	Dissolved Organic Carbon	12	8	24	85	500	800	1000

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited

\$199445M

Consignment No S85420
Date Logged 03-Jun-2019
In-House Report Due 12-Jul-2019

Method		Sample	Result	Unit	Notes
ICPMSS	Zinc (MS)				
	Vanadium (MS)				
	Selenium (MS)				
	Nickel (MS)				
	Mercury (MS)				
	Lead (MS)				
	Copper (MS)				
	Chromium (MS)				
	Cadmium (MS)				
	Arsenic (MS)				
ICPBOR	Boron (H2O Soluble)				
ICPACIDS	SO4-- (acid sol)				
GROHSA	GRO (AA) by HSA GC-FID				
FOCS	S.O.M. % (Calc)				
FOCCALC	F.O.C.				
CustServ	REPORT A				
CEN Leachate	Fraction of sample above 4 mm %				
	Fraction of non-crushable material %				
	CEN Leac(P)C				
	CEN Leac(P)2				
	CEN Leac(P)1				
BTEXHSA	MTBE (µg/kg)				
	BTEX-HSA + MTBE analysis				
ANC	Acid Neut. Capacity				
AMMAR	Exchange.Ammonium AR				
MethodID	Sampled				
	Description				
	ID Number				

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time

Analysis Required	Analysis dependent upon trigger result - Note: due date may be affected if triggered
No analysis scheduled	
Analysis Subcontracted	Note: due date may vary

Where individual results are flagged see report notes for status.

Customer SOCOTEC UK Wokingham
Site D9008-19 M25 Jct 10
Report No S199445M

Consignment No S85420

Date Logged 03-Jun-2019

In-House Report Due 12-Jun-2019

Please note the results for any subcontracted analysis (identified with a 'v') is likely to take up to an additional five working days.

ID Number	Description	MethodID	Sampled	ICPSOIL		KONECR		LOI(%MM)		MCertS		PAHMSUS		PCBECD		PHSOIL		SFAPI		SFAS		TMSS		TPHFIDUS		TPHUSSI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				Beryllium.		Chromium vi:		L.O.I. % @ 450C		MCertS Analysis		PAH (16) by GCMS		PCB-7 Congeners Analysis		pH units (AR)		Cyanide(Free) (AR)		Cyanide(Total) (AR)		Phenol Index.(AR)		Tot.Moisture @ 105C		TPH Band (>C10-C40)		TPH by GCFID (AR)		TPH Ali Band >C10-C12		TPH Ali Band >C12-C16		TPH Ali Band >C16-C21		TPH Ali Band >C21-C35		TPH Ali Band >C8-C10		TPH Ali Band >C8-C40		TPH Aro Band >C10-C12		TPH Aro Band >C12-C16		TPH Aro Band >C16-C21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
	Analysis Subcontracted - Note: due date may vary

Sample Analysis

SOCOTEC UK Ltd Environmental Chemistry

Analytical and Deviating Sample Overview

S199445M

CustomerSOCOTEC UK Wokingham

SiteD9008-19 M25 Jct 10

Report NoS199445M

Consignment No S85420

Date Logged 03-Jun-2019

In-House Report Due 12-Jun-2019

Please note the results for any subcontracted analysis (identified with a 'u') is likely to take up to an additional five working days.

ID Number	Description	MethodID	TPHUSSI				WSLM59
		Sampled	TPH Aro Band >C21-C35	TPH Aro Band >C8-C10	TPH Aro Band >C8-C40	TPH by GCFID (AR/Si)	Total Organic Carbon
CL/1961401	1-537 0.00-1.00	30/05/19	✓	✓	✓	✓	✓
CL/1961402	1-537 0.50	30/05/19					
CL/1961403	1-737 0.00-0.50	30/05/19					
CL/1961404	1-737 1.00	30/05/19					

Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.

If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	The sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
u	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	AMMAR	As Received	Determination of Exchangeable Ammonium in Soil using potassium chloride extraction, discrete colorimetric detection
Soil	ANC	Oven Dried @ < 35°C	Quantitative digestion with Hydrochloric Acid back titration with 1M Sodium Hydroxide to pH 7
Soil	BTEXHSA	As Received	Determination of Benzene, Toluene, Ethyl benzene and Xylenes (BTEX) by Headspace GCFID
Soil	CEN Leachate	As Received	Determination of Oversize and Inert Material Content prior to leaching sample
Soil	FOCS	Oven Dried @ < 35°C	Calculation of Soil Organic Matter content from Organic Carbon content of soil samples
Soil	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID
Soil	ICPACIDS	Oven Dried @ < 35°C	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPBOR	Oven Dried @ < 35°C	Determination of Boron in soil samples by hot water extraction followed by ICPOES detection
Soil	ICPMSS	Oven Dried @ < 35°C	Determination of Metals in Marine Sediments and Soil samples by aqua regia digestion followed by ICPMS detection
Soil	ICPSOIL	Oven Dried @ < 35°C	Determination of Metals in soil samples by aqua regia digestion followed by ICPOES detection
Soil	KONECR	Oven Dried @ < 35°C	Determination of Chromium vi in soil samples by water extraction followed by colorimetric detection
Soil	LOI(%MM)	Oven Dried @ < 35°C	Determination of loss on ignition for soil samples at specified temperature by gravimetry
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PCBECD	As Received	Determination of Polychlorinated Biphenyl (PCB) congeners/aroclors by hexane/acetone extraction followed by GCECD detection
Soil	PHSOIL	As Received	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.
Soil	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Soil	SFAS	As Received	Segmented flow analysis with colorimetric detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105°C by loss on oven drying gravimetric analysis (% based upon wet weight)
Soil	TPHFIDUS	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection.
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	WSLM59	Oven Dried @ < 35°C	Determination of Organic Carbon in soil using sulphurous Acid digestion followed by high temperature combustion and IR detection
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using ICPMS
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	ISEF	As Received	Determination of Fluoride in water samples by Ion Selective Electrode (ISE)
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	SFAP1	As Received	Segmented flow analysis with colorimetric detection
Water	WSLM13	As Received	Instrumental analysis using acid/persulphate digestion and non-dispersive IR detection
Water	WSLM2	As Received	Determination of the Electrical Conductivity ($\mu\text{S}/\text{cm}$) by electrical conductivity probe.
Water	WSLM27	As Received	Gravimetric Determination
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

TR Denotes Tremolite

CR Denotes Crocidolite

AC Denotes Actinolite

AM Denotes Amosite

AN Denotes Anthophyllite

NAIIS No Asbestos Identified in Sample

NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : SOCOTEC UK Wokingham

Site : D9008-19 M25 Jct 10

Report Number : S19_9445

Note: major constituent in upper case

TEST REPORT



Report No. EFS/199626M (Ver. 2)

SOCOTEC UK Wokingham
Socotec Wokingham
Glossop House
Hogwood Ln
Finchampstead
Hogwood Industrial Estate
Wokingham
RG40 4QW

Site: D9008-19 M25 Jct 10

The 2 samples described in this report were registered for analysis by SOCOTEC UK Limited on 08-Jun-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 11-Sep-2019

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited. Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by SOCOTEC UK Limited.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 15)
Table of WAC Analysis Results (Page 16)
Table of Asbestos Screening Results (Page 17)
Analytical and Deviating Sample Overview (Pages 18 to 20)
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Table of Method Descriptions (Pages 22 to 23)
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On behalf of
SOCOTEC UK Lim
Becky Batham

Operations Manager
Energy & Waste Services

Date of Issue: 11-Sep-2019

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)

Tests marked '^' have been subcontracted to another laboratory.

(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.

All results are reported on a dry weight basis at 105°C unless otherwise stated. (except QC samples)

SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.