

Our Ref: EXR/251241 (Ver. 1)

Your Ref:

January 25, 2018



Environmental Chemistry

SOCOTEC UK Limited

Bretby Business Park

Ashby Road

Burton-on-Trent

Staffordshire

DE15 0YZ

Telephone: 01283 554400

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A Morris
White Rock Geo Environmental Ltd
EnviroArm Limited
597 Walsall Road
Great Wyrley
Walsall
Staffordshire
WS6 6AE

For the attention of A Morris

Dear A Morris

Sample Analysis - Parrys Quarry

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.

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 'J Chislett'.

J Chislett

Project Co-ordinator

01283 554458

TEST REPORT

Report No. EXR/251241 (Ver. 1)

White Rock Geo Environmental Ltd
EnviroArm Limited
597 Walsall Road
Great Wyrley
Walsall
Staffordshire
WS6 6AE

Site: Parrys Quarry

The 14 samples described in this report were registered for analysis by SOCOTEC UK Limited on 16-Jan-2018. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 25-Jan-2018

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 3)
Analytical and Deviating Sample Overview (Pages 4 to 5)
Table of Method Descriptions (Page 6)
Table of Report Notes (Page 7)
Table of Sample Descriptions (Appendix A Page 1 of 1)


On behalf of
SOCOTEC UK Lim 
Tim Barnes
Operations Director
Energy & Waste Services

Date of Issue: 25-Jan-2018

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.

Units : Method Codes : Method Reporting Limits :			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	uS/cm	mg/l	pH units					
			PHEHPLCUV	PHEHPLCUV	PHEHPLCUV	PHEHPLCUV	PHEHPLCUV	SFAP1	WSLM12	WSLM13	WSLM2	WSLM20	WSLM3					
			0.05	0.05	0.05	0.2	0.05	0.02		0.2	100	1						
LAB ID Number EX/	Client Sample Description	Sample Date	Dimethylphenols	Methyl Phenols	Phenol	Total Phenols	Trimethylphenols	Cyanide (Total) as CN	Total Alkalinity as CaCO3 w	Total Organic Carbon w	Conductivity uS/cm @ 25C w	Biochemical Oxygen Demand w	pH units w					
1841261	BH A	15-Jan-18	0.13	<0.05	<0.05	<0.28	<0.05	<0.02	158	2.2	832	<1.0	6.6					
1841262	BH B	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	155	3.0	719	5.2	6.7					
1841263	BH C	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	250	2.1	2180	3.2	7.1					
1841264	BH C1	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	190	1.2	779	1.9	7.1					
1841265	BH D	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	244	1.7	820	1.4	7.3					
1841266	BH E	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	185	1.2	524	<1.0	7.2					
1841267	BH F	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	211	0.61	552	1.3	7.3					
1841268	BH F1	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	86	0.96	601	1.2	6.3					
1841269	BH G	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	203	1.2	759	<1.0	7.6					
1841270	BH H	15-Jan-18	<0.05	<0.05	<0.05	<0.20	<0.05	<0.02	379	4.9	2250	2.5	7.1					
1841271	BH I	15-Jan-18	<0.05	<0.05	<0.05	<0.2	<0.05	<0.02	365	5.6	2140	1.3	6.7					
1841272	BH J	15-Jan-18	<0.05	<0.05	<0.05	<0.2	<0.05	<0.02	239	1.2	1250	1.6	6.9					
1841273	BH K	15-Jan-18	<0.05	<0.05	<0.05	<0.2	<0.05	<0.02	164	1.8	3570	<1.0	6.4					
1841274	BH K1	15-Jan-18	<0.05	<0.05	<0.05	<0.2	<0.05	<0.02	292	0.64	1000	1.1	7					
<div><p>Bretby Business Park, Ashby Road Burton-on-Trent, Staffordshire, DE15 0YZ Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422</p></div>			Client Name		White Rock Geo Environmental Ltd						Sample Analysis							
			Contact		A Morris						Date Printed		25-Jan-2018					
			Parrys Quarry						Report Number		EXR/251241							
									Table Number		1							

Customer White Rock Geo Environmental Ltd
Site Parrys Quarry
Report No W251241

Consignment No W112513
Date Logged 16-Jan-2018
In-House Report Due 25-Jan-2018

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		CUST SERV	ICP/MSW										ICP/MS/AR					KONENS	PREP/CLUT	
		Matrix Type	Sampled		Report A	Nickel as Ni MS (Dissolved)	Chromium as Cr MS (Dissolved)	Cadmium as Cd MS (Dissolved)	Copper as Cu MS (Dissolved)	Lead as Pb MS (Dissolved)	Zinc as Zn MS (Dissolved)	Mercury as Hg MS (Dissolved)	Total Sulphur as SO4 (Diss) VAR	Calcium as Ca (Dissolved) VAR	Magnesium as Mg (Dissolved) VAR	Sodium as Na (Dissolved) VAR	Potassium as K (Dissolved) VAR	Manganese as Mn (Dissolved) VAR	Iron as Fe (Dissolved) VAR	Chloride as Cl (Kone)	Ammoniacal Nitrogen (Kone)	Phenols - HPLC
						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AE
EX/1841261	BH A	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841262	BH B	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841263	BH C	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841264	BH C1	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841265	BH D	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841266	BH E	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841267	BH F	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841268	BH F1	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841269	BH G	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841270	BH H	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841271	BH I	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841272	BH J	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841273	BH K	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE
EX/1841274	BH K1	Unclassified	15/01/18			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	AE

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**

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. Where individual results are flagged see report notes for status.

Customer White Rock Geo Environmental Ltd
 Site Parrys Quarry
 Report No W251241

Consignment No W112513
 Date Logged 16-Jan-2018
 In-House Report Due 25-Jan-2018

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		SFAPI	WSLM12	WSLM13	WSLM2	WSLM20	WSLM3
		Matrix Type	Sampled	Cyanide (Total) as CN SFA	Total Alkalinity as CaCO3	Total Organic Carbon	Conductivity uS/cm @ 25C	Biochemical Oxygen Demand	pH units
				✓	✓	✓	✓	✓	✓
EX/1841261	BH A	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841262	BH B	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841263	BH C	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841264	BH C1	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841265	BH D	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841266	BH E	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841267	BH F	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841268	BH F1	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841269	BH G	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841270	BH H	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841271	BH I	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841272	BH J	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841273	BH K	Unclassified	15/01/18	E	E	E	E	E	E
EX/1841274	BH K1	Unclassified	15/01/18	E	E	E	E	E	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

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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**

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. Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
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	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	PHEHPLCUV	As Received	Determination of Phenols by HPLC with UV Detection
Water	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Water	WSLM12	As Received	Titration with Sulphuric Acid to required pH
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	WSLM20	As Received	Determination of Biological Oxygen Demand using 5 day incubation and dissolved oxygen probe
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 : White Rock Geo Environmental Ltd
Site : Parrys Quarry
Report Number : W25_1241

[illegible]