

Our Ref: EXR/240342 (Ver. 1)

Your Ref:

April 07, 2017



Environmental Chemistry

ESG

Bretby Business Park

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Burton-on-Trent

Staffordshire

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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 Environmental Scientifics Group Ltd (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 ESG

A handwritten signature in black ink, appearing to be 'A Tave', written over a horizontal line.

A Tave  
Project Co-ordinator  
01283 554463

# TEST REPORT



**Report No. EXR/240342 (Ver. 1)**

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

**Site: Parrys Quarry**

The 13 samples described in this report were registered for analysis by ESG on 27-Mar-2017. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 07-Apr-2017

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  
ESG :  
Tim Barnes

A handwritten signature in cursive script, appearing to read 'Tim Barnes'.

Operations Director  
Energy & Waste Services

Date of Issue: 07-Apr-2017

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.

ESG accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.



## Sample Analysis

## ESG Environmental Chemistry

### Analytical and Deviating Sample Overview

**W240342**

Customer	White Rock Geo Environmental Ltd
Site	Parrys Quarry
Report No	W240342

Consignment No W119862

Date Logged 27-Mar-2017

Report Due 07-Apr-2017

[illegible]

**Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.**

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

### 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 - <b>Note: due date may be affected if triggered</b> |
|   | No analysis scheduled   |
| ^ | Analysis Subcontracted - <b>Note: due date may vary</b>                                     |

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	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/cm<sup>3</sup>@ 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 :** W24\_0342

[illegible]