

Our Ref: EXR/143862 (Ver. 1)

Your Ref: A075840

October 9, 2012



Environmental Scientifics Group

Environmental Chemistry

ESG

Bretby Business Park

Ashby Road

Burton-on-Trent

Staffordshire

DE15 0YZ

Telephone: 01283 554400

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Mr M Cutbush
White Young Green
WYG Engineering LTD
Nottingham

For the attention of Mr M Cutbush

Dear Mr Cutbush

Water Sample Analysis - Great Oak

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 (Laboratory and Analytical) 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 that reads 'David Simpson'. The signature is written in a cursive style with a large initial 'D'.

D Simpson
Project Co-ordinator
01283 554458

TEST REPORT

WATER SAMPLE ANALYSIS



Report No. EXR/143862 (Ver. 1)

White Young Green
WYG Engineering LTD
Nottingham

Site: Great Oak

The 4 samples described in this report were registered for analysis by ESG on 25-Sep-2012. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 09-Oct-2012

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

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)

On behalf of
ESG :
Declan Burns

A handwritten signature in black ink, appearing to read 'D Burns'.

Operations Director
Laboratory and Analytical Business

Date of Issue: 09-Oct-2012

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

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

Where individual results are flagged see report notes for status.

Customer White Young Green
Site Great Oak
Report No W143862





Consignment No W43230
Date Logged 25-Sep-2012

Report Due 09-Oct-2012

ID Number	Description	MethodID	CURSERV	ICPMATVAR	ICPMATVAR														KONENS	WCCALC1							
					Report B	Total Sulphur as SO4 (Diss) VAR	Calcium as Ca (Dissolved) VAR	Magnesium as Mg (Dissolved) VAR	Barium as Ba (Dissolved) VAR	Strontium as Sr (Dissolved) VAR	Sodium as Na (Dissolved) VAR	Potassium as K (Dissolved) VAR	Nickel as Ni (Dissolved) VAR	Cadmium as Cd (Dissolved) VAR	Copper as Cu (Dissolved) VAR	Lead as Pb (Dissolved) VAR	Zinc as Zn (Dissolved) VAR	Manganese as Mn (Total) VAR			Iron as Fe (Dissolved) VAR	Aluminium as Al (Total) VAR	Boron as B (Dissolved) VAR	Silicon as Si (Dissolved) VAR	Chloride as Cl (Kone)	Ammoniacal Nitrogen (Kone)	Nitrate as N (Kone calc)
Accredited to ISO17025					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EX/1327550	1 - Rookery Colliery Discharge t	07/09/12																									
EX/1327551	Sample 2 Diglake Saugh (collie	07/09/12																									
EX/1327552	3- Briely Brook Upstream of dig	07/09/12																									
EX/1327553	Sample - 4 Piezo - 15	07/09/12																									

Note: For analysis where the Report Due date is greater than 7 days (PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may 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
Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - Note: due date may be affected if triggered
	No analysis scheduled
	Analysis Subcontracted

Customer White Young Green
Site Great Oak
Report No W143862





Consignment No W43230
Date Logged 25-Sep-2012

Report Due 09-Oct-2012

ID Number	Description	MethodID	WICALC1	WSLM10	WSLM12	WSLM13	WSLM17	WSLM2	WSLM3
		Sampled	Total Cations meq	Suspended Solids	Total Alkalinity as CaCO3	Total Organic Carbon	Total Acidity as CaCO3	Conductivity uS/cm @ 25C	pH units
Accredited to ISO17025				✓	✓	✓	✓	✓	✓
EX/1327550	1 - Rookery Colliery Discharge t	07/09/12							
EX/1327551	Sample 2 Diglake Saugh (collie	07/09/12							
EX/1327552	3- Briely Brook Upstream of dig	07/09/12							
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Where individual results are flagged see report notes for status.

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	WCALC1	As Received	Calculation based on concentrations of dissolved Cations and anions
Water	WSLM10	As Received	Determination of Suspended Solids in waters by gravimetry
Water	WSLM12	As Received	Titration with Sulphuric Acid to required pH
Water	WSLM13	As Received	Instrumental analysis using acid/persulphate digestion and dispersive IR detection
Water	WSLM17	As Received	Titration with Sodium Hydroxide to required pH
Water	WSLM2	As Received	Determination of the Electrical Conductivity ($\mu\text{S}/\text{cm}$) by electrical conductivity probe.
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Where individual results are flagged see report notes for status.

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

CR Denotes Crocidolite

AM Denotes Amosite

NAIS 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

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

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.

END OF REPORT

Where individual results are flagged see report notes for status.