Our Ref: EXR/176845 (Ver. 2)
Your Ref: DAM0046556

May 27, 2014

Environmental Chemistry
ESG
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

Mr J Collins
2ZLF Limited
Sharps Gate
Station Road
Oxton
TD2 6PW

For the attention of Mr J Collins

Dear Mr Collins

NRA Leachate Sample Analysis - West Meadows Industrial Estate

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

D Simpson
Project Co-ordinator
01283 554458

TEST REPORT
NRA LEACHATE SAMPLE ANALYSIS

1252

Report No. EXR/176845 (Ver. 2)

2ZLF Limited
Sharps Gate
Station Road
Oxton
TD2 6PW

Site: West Meadows Industrial Estate

The 4 samples described in this report were registered for analysis by ESG on 06-May-2014. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 27-May-2014

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

Operations Director
Laboratory and Analytical Business

Date of Issue: 27-May-2014

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.

Units :		pH units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Method Codes :		WSLM3	KONENS	ICPMSW	ICPMSW	ICPMSW	ICPMSW	ICPMSW	ICPMSW	ICPMSW	ICPMSW	ICPMSW	ICPMSW	KONENS	KONENS	KONENS	SFAPI	
Method Reporting Limits :			1	0.001	0.001	0.0001	0.001	0.001	0.002	0.001	0.0001	0.001	0.001	0.01	0.01	0.2	0.2	
UKAS Accredited :		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
LAB ID Number EXR	**Client Sample Description**	**pH units w**	**Chloride as Cl w**	**Nickel as Ni (Dissolved)**	**Chromium as Cr (Dissolved)**	**Cadmium as Cd (Dissolved)**	**Copper as Cu (Dissolved)**	**Lead as Pb (Dissolved)**	**Zinc as Zn (Dissolved)**	**Arsenic as As (Dissolved)**	**Mercury as Hg (Dissolved)**	**Selenium as Se (Dissolved)**	**Vanadium as V (Dissolved)**	**Ammoniacal Nitrogen as N**	**Nitrite as N**	**Nitrate as N**	**Thiocyanate as SCN**	
1488323	45208816 Site 1 TP1 Northern 1.1	7.4	13	0.008	0.004	0.0006	0.073	0.102	0.128	0.009	<0.0001	0.003	0.008	2.8	<0.01	<0.2	<0.2	
1488324	45208817 Site 1 TP1 Northern 2.8	7.9	2	<0.001	<0.001	0.0001	0.004	0.002	0.018	<0.001	<0.0001	0.002	0.001	<0.01	<0.01	<0.2	<0.2	
1488325	45208818 Site 2 TP2 South	7.6	3	0.002	<0.001	0.0001	0.005	0.001	0.087	<0.001	<0.0001	<0.001	0.001	<0.01	<0.01	<0.2	<0.2	
1488326	45208819 Site 3 TP3 Adj to 3.0	8.1	2	0.001	<0.001	0.0002	0.009	0.002	0.034	<0.001	<0.0001	0.002	0.001	0.01	<0.01	<0.2	<0.2	

ESG Environmental Scientifics Group
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Burton-on-Trent, Staffordshire, DE15 0YZ
Tel +44 (0) 1283 554400
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Client Name 2ZLF Limited

Contact Mr J Collins

West Meadows Industrial Estate

NRA Leachate Sample Analysis

Date Printed	**27-May-2014**
Report Number	**EXR/176845**
Table Number	**1**

Where individual results are flagged see report notes for status.

Units :		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l										
Method Codes :		KONENS	KONENS	SFAPI	SFAPI	SFAPI	KONENS										
Method Reporting Limits :		0.01	0.2	0.02	0.02	0.02	0.01										
UKAS Accredited :		Yes	Yes	Yes	Yes	Yes	Yes										
LAB ID Number EXI	**Client Sample Description**	**Chromium VI as Cr**	**Total Oxidised Nitrogen as N**	**Cyanide (Free) as CN**	**Cyanide (Total) as CN**	**Complex Cyanide as CN**	**Phosphate as P**										
1488323	45208816 Site 1 TP1 Northern 1.1	<0.01	<0.2	<0.02	<0.02	<0.02	0.17										
1488324	45208817 Site 1 TP1 Northern 2.8	<0.01	<0.2	<0.02	<0.02	<0.02	0.07										
1488325	45208818 Site 2 TP2 South	<0.01	<0.2	<0.02	<0.02	<0.02	0.09										
1488326	45208819 Site 3 TP3 Adj to 3.0	<0.01	<0.2	<0.02	<0.02	<0.02	0.09										

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NRA Leachate Sample Analysis

Date Printed	**27-May-2014**
Report Number	**EXR/176845**
Table Number	**1**

Where individual results are flagged see report notes for status.

NRA Leachate Analysis

ESG Environmental Chemistry
Analytical and Deviating Sample Overview

W176845

Customer 2ZLF Limited
Site West Meadows Industrial Estate
Report No W176845

Consignment No S41116
Date Logged 06-May-2014

Report Due 14-May-2014

ID Number	Description	MethodID	Matrix Type	Sampled	CUSTSERV	ICPMSW										KONENS						
					Report A (NRA)	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)	Arsenic as As MS (Dissolved)	Mercury as Hg MS (Dissolved)	Selenium as Se MS (Dissolved)	Vanadium as V MS (Dissolved)	Chloride as Cl (Kone)	Ammoniacal Nitrogen (Kone)	Nitrite as N (Kone)	Nitrate as N (Kone calc)	Chromium VI. as Cr (Kone)	Total Oxidised Nitrogen (Kone)	Phosphate as P. (kone)
Test Method Accredited to ISO17025						✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
EX/1488323	45208816 Site 1 TP1 Northern		Laboratory Produced Leachate																			
EX/1488324	45208817 Site 1 TP1 Northern		Laboratory Produced Leachate																			
EX/1488325	45208818 Site 2 TP2 South		Laboratory Produced Leachate																			
EX/1488326	45208819 Site 3 TP3 Adj to 3.0		Laboratory Produced Leachate																			

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 - **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.

NRA Leachate Analysis

ESG Environmental Chemistry
Analytical and Deviating Sample Overview

W176845

Customer 2ZLF Limited
Site West Meadows Industrial Estate
Report No W176845

Consignment No S41116
Date Logged 06-May-2014

Report Due 14-May-2014

ID Number	Description	Matrix Type	Sampled	MethodID	LeachPrep	SFAPI				WSLM3
					Leachate Prep	Thiocyanate as SCN SFA	Cyanide (Free) as CN SFA	Cyanide (Total) as CN SFA	Complex Cyanide as CN (CALC)	pH units
Test Method Accredited to ISO17025						✓	✓	✓	✓	✓
EX/1488323	45208816 Site 1 TP1 Northern	Laboratory Produced Leachate								
EX/1488324	45208817 Site 1 TP1 Northern	Laboratory Produced Leachate								
EX/1488325	45208818 Site 2 TP2 South	Laboratory Produced Leachate								
EX/1488326	45208819 Site 3 TP3 Adj to 3.0	Laboratory Produced Leachate								

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	
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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**

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	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	SFAPI	As Received	Segmented flow analysis with colorimetric detection
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 105ºC 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^3@ 15^{o}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
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
NS Information Not Supplied
Req Analysis requested, see attached sheets for results
Þ 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.