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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 14-01833

Issue: 1

Date of Issue: 07/01/2015

Contact: John Carlon

Customer Details: Rand & Asquith (Aceblade) Ltd
Stone Yard
Timber Works
Brighthouse

Quotation No: Q14-00162

Order No: Not Supplied

Customer Reference: Not Supplied

Date Received: 16/12/2014

Date Approved: 07/01/2015

Details: Elland Edge Quarry Recovery Scheme

Approved by:

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
12460	SUMP Surf	12/12/2014	22/12/2014		
12461	ROUNDHILL Surf	12/12/2014	22/12/2014		



Results Summary

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ELAB Reference	12460	12461
Customer Reference		
Sample ID		
Sample Type	WATER	WATER
Sample Location	SUMP	ROUNDHILL
Sample Depth (m)	Surf	Surf
Sampling Date	12/12/2014	12/12/2014

Determinand	Codes	Units	LOD		
Dissolved Metals					
Arsenic	U	ug/l	5	< 5	< 5
Calcium	U	ug/l	100	73200	30800
Cadmium	U	ug/l	1	< 1	< 1
Chromium	U	ug/l	5	6	< 5
Copper	U	ug/l	5	6	8
Iron	U	ug/l	140	< 140	263
Potassium	U	ug/l	100	2560	15300
Magnesium	U	ug/l	100	14200	9100
Manganese	U	ug/l	5	25	47
Molybdenum	U	ug/l	5	8	< 5
Sodium	U	ug/l	100	56900	32200
Nickel	U	ug/l	5	< 5	5
Lead	U	ug/l	1	1	1
Zinc	U	ug/l	5	39	28
Anions					
Chloride	U	mg/l	1	39	56
Nitrate	U	mg/l	1	4	60
Sulphate	U	mg/l	1	275	44
Inorganics					
Ammoniacal Nitrogen as N	N	mg/l	0.1	< 0.1	0.8
Miscellaneous					
Total Alkalinity (CaCO ₃)	N	mg/l CaCO ₃	5	70	60
Biochemical Oxygen Demand (5 day)	N	mg/l	2	5	2
Chemical Oxygen Demand	N	mg/l	2	17	35
Electrical Conductivity	U	uS/cm	1	692	436
Dissolved organic carbon	U	mg/l	0.9	11	17
pH	U	units	0.1	7.9	6.5
Phenols					
Total Phenols	N	ug/l	1	94	< 1
Total Petroleum Hydrocarbons					
Total TPH (C10-C40)	U	ug/l	100	< 100	391



Method Summary
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Parameter	Analysis Undertaken On	Date Tested	Method Number	Technique
Water				
Phenols in waters		23/12/2014		HPLC
Alkalinity in waters		23/12/2014	100	Titrimetry
Dissolved metals by ICP in waters		23/12/2014	101	ICPMS
Dissolved organic carbon		24/12/2014	102	IR
pH of waters		23/12/2014	113	Electromeric
Anions		23/12/2014	131	Ion Chromatography
Electrical conductivity of water		24/12/2014	136	Electromeric
BOD		07/01/2015	142	5 Day
COD (Chemical Oxygen Dema in waters		05/01/2015	143	Colorimetry
Ammonia in waters		23/12/2014	151	Colorimetry
Total Petroleum Hydrocarbons in waters		23/12/2014	178	GC-FID

Report Information

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Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage