ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EP1609409**	Page	: 1 of 6
Client	: **REWARD MINERALS LTD**	Laboratory	: Environmental Division Perth
Contact	: MICHAEL RUANE	Contact	: Customer Services EP
Address	: PO BOX 1104 NEDLANDS PERTH	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: ----	Telephone	: +61-8-9209 7655
Project	: LAKE DISAPPOINTMENT	Date Samples Received	: 06-Oct-2016 10:40
Order number	: 00789	Date Analysis Commenced	: 06-Oct-2016
C-O-C number	: ----	Issue Date	: 13-Oct-2016 14:43
Sampler	: ----		
Site	: ----		
Quote number	: ----		
No. of samples received	: 18		
No. of samples analysed	: 18		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Bek Simpfendorfer	Inorganic Supervisor	Perth Inorganics, Malaga, WA
Daniel Fisher	Inorganics Analyst	Perth ASS, Malaga, WA
Daniel Fisher	Inorganics Analyst	Perth Inorganics, Malaga, WA

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	MBO 2	MBO 7	MBO 9	MBO 12	MBO 15
				Client sampling date / time	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]
Compound	CAS Number	LOR	Unit		EP1609409-001	EP1609409-002	EP1609409-003	EP1609409-004	EP1609409-005
					Result	Result	Result	Result	Result
EA002 : pH (Soils)									
pH Value	----	0.1	pH Unit		**7.4**	**7.0**	**7.5**	**7.5**	**7.1**
EA026 : Chromium Reducible Sulfur									
Chromium Reducible Sulphur	----	0.005	%		<0.005	<0.005	<0.005	<0.005	<0.005
EP004: Organic Matter									
Organic Matter	----	0.5	%		**1.1**	**1.1**	**1.0**	**0.7**	**0.7**
Total Organic Carbon	----	0.5	%		**0.6**	**0.6**	**0.6**	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	MBO 19	MBO 21	MBO 24	MBO 25	MBO 26
				Client sampling date / time	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]
Compound	CAS Number	LOR	Unit		EP1609409-006	EP1609409-007	EP1609409-008	EP1609409-009	EP1609409-010
					Result	Result	Result	Result	Result
EA002 : pH (Soils)									
pH Value	----	0.1	pH Unit		**6.8**	**7.8**	**7.3**	**7.6**	**7.1**
EA026 : Chromium Reducible Sulfur									
Chromium Reducible Sulphur	----	0.005	%		<0.005	<0.005	<0.005	<0.005	<0.005
EP004: Organic Matter									
Organic Matter	----	0.5	%		**1.2**	**1.1**	**1.5**	**1.1**	**1.0**
Total Organic Carbon	----	0.5	%		**0.7**	**0.6**	**0.8**	**0.6**	**0.6**

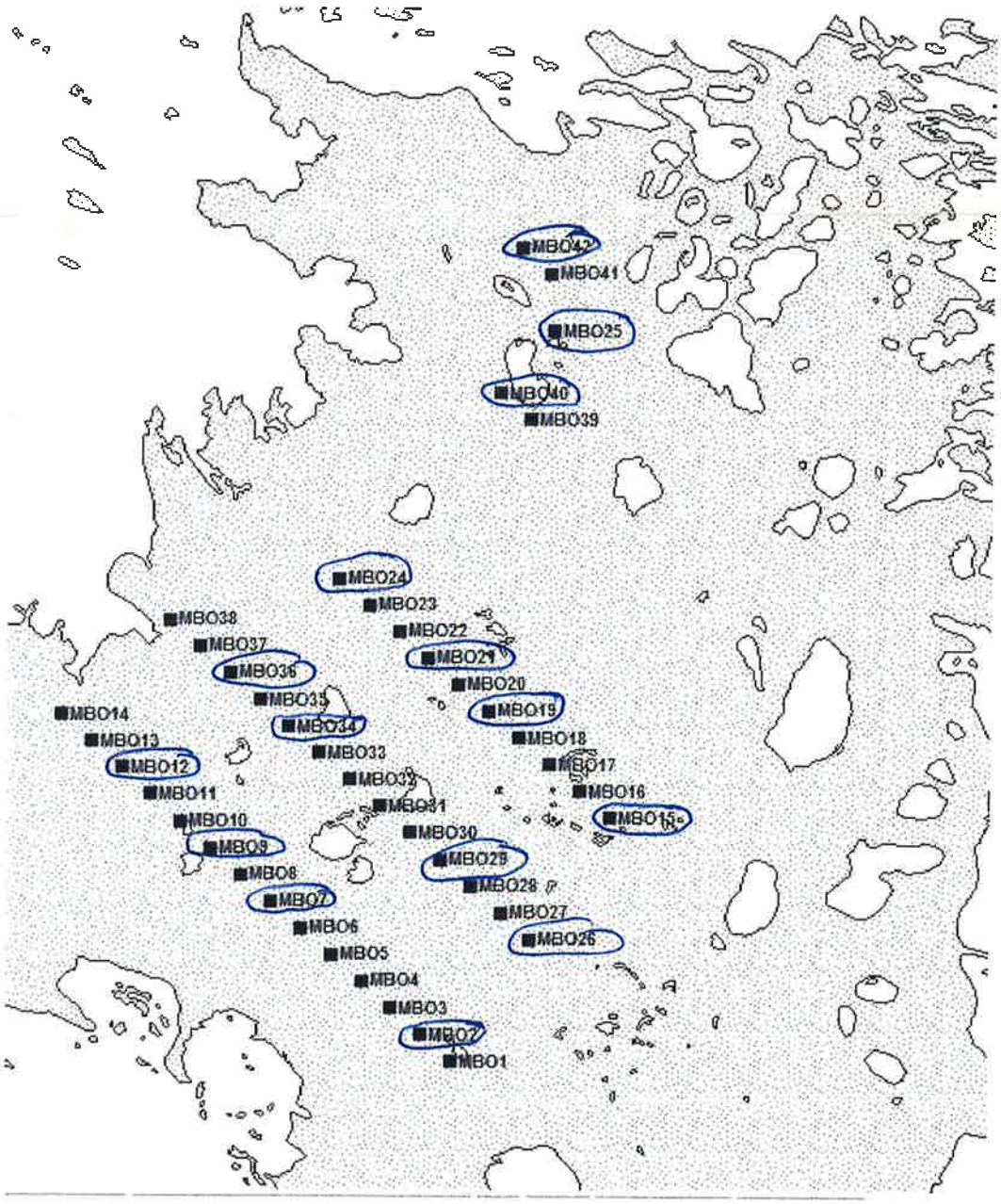
Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	MBO 29	MBO 34	MBO 36	MBO 40	MBO 42
				Client sampling date / time	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]
Compound	CAS Number	LOR	Unit		EP1609409-011	EP1609409-012	EP1609409-013	EP1609409-014	EP1609409-015
					Result	Result	Result	Result	Result
EA002 : pH (Soils)									
pH Value	----	0.1	pH Unit		**7.7**	**7.2**	**7.7**	**7.6**	**7.7**
EA026 : Chromium Reducible Sulfur									
Chromium Reducible Sulphur	----	0.005	%		<0.005	<0.005	<0.005	**0.012**	<0.005
EP004: Organic Matter									
Organic Matter	----	0.5	%		**1.1**	**0.6**	<0.5	**2.3**	**1.0**
Total Organic Carbon	----	0.5	%		**0.6**	<0.5	<0.5	**1.4**	**0.6**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	QC1 (MB02)	QC2 (MB015)	QC3 (MB026)	----	----
			Client sampling date / time	[06-Oct-2016]	[06-Oct-2016]	[06-Oct-2016]	----	----
Compound	CAS Number	LOR	Unit	EP1609409-016	EP1609409-017	EP1609409-018	--------	--------
				Result	Result	Result	----	----
EA002 : pH (Soils)								
pH Value	----	0.1	pH Unit	**7.8**	**7.2**	**7.0**	**----**	**----**
EA026 : Chromium Reducible Sulfur								
Chromium Reducible Sulphur	----	0.005	%	<0.005	<0.005	<0.005	**----**	**----**
EP004: Organic Matter								
Organic Matter	----	0.5	%	**1.7**	**1.8**	**1.0**	**----**	**----**
Total Organic Carbon	----	0.5	%	**1.0**	**1.0**	**0.6**	**----**	**----**

Site ID	Profile	East	North	Date
MBO1	1	475021	7394039	8-Sep
	2	475025	7394036	8-Sep
	3	475021	7394028	8-Sep
MBO2	1	474009	7394995	8-Sep
MBO3	1	472986	7396041	8-Sep
MBO4	1	472052	7397006	8-Sep
MBO5	1	470971	7397964	8-Sep
MBO6	1	469995	7399018	8-Sep
	2	470001	7399016	8-Sep
	3	469997	7399009	8-Sep
MBO7	1	469011	7400018	8-Sep
MBO8	1	468001	7401038	9-Sep
MBO9	1	467017	7402012	9-Sep
MBO10	1	466069	7402979	9-Sep
MBO11	1	465019	7404030	9-Sep
	2	465017	7404022	9-Sep
	3	465010	7404016	9-Sep
MBO12	1	463963	7405029	9-Sep
MBO13	1	462960	7406036	9-Sep
MBO14	1	461964	7406983	9-Sep
MBO15	1	480997	7402010	11-Sep
MBO16	1	480068	7403011	11-Sep
MBO17	1	479037	7403958	11-Sep
MBO18	1	478022	7405050	11-Sep
	2	478029	7405053	11-Sep
	3	478033	7405046	11-Sep
MBO19	1	477011	7406065	11-Sep
MBO20	1	476068	7406999	11-Sep
MBO21	1	475013	7408071	11-Sep
MBO22	1	473988	7409067	11-Sep
MBO23	1	473000	7410048	11-Sep
	2	473003	7410056	11-Sep
	3	473007	7410049	11-Sep
MBO24	1	472061	7411042	11-Sep
MBO25	1	480049	7419034	11-Sep
MBO26	1	477947	7398023	9-Sep
MBO27	1	476992	7399046	9-Sep
	2	477003	7399049	9-Sep
	3	477003	7399041	9-Sep
MBO28	1	475971	7399971	9-Sep
MBO29	1	474983	7401020	9-Sep
MBO30	1	474034	7402000	9-Sep
MBO31	1	473024	7402966	9-Sep
MBO32	1	471977	7404049	9-Sep
	2	471985	7404050	9-Sep
	3	471990	7404042	9-Sep
MBO33	1	471032	7405030	9-Sep
MBO34	1	470037	7406030	9-Sep
MBO35	1	468988	7407046	9-Sep
MBO36	1	467980	7407945	9-Sep
MBO37	1	467018	7409061	9-Sep
	2	467029	7409064	9-Sep
	3	467029	7409057	9-Sep
MBO38	1	466018	7410044	9-Sep
MBO39	1	478985	7416054	11-Sep
MBO40	1	477987	7416977	11-Sep
MBO41	1	480012	7420985	11-Sep
	2	480019	7420984	11-Sep
	3	480021	7420975	11-Sep
MBO42	1	478942	7422035	11-Sep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