

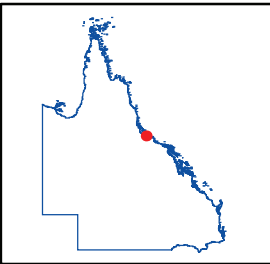
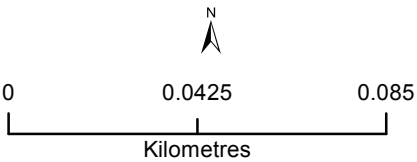
Compliance Inspection
Morehead Street, South Townsville

Legend

● Waypoints

WP134 - W2 and W3

WP131 - W1



Map projection: Unprojected Geographic Coordinates
Horizontal Datum: GDA94
A4 Map Scale = 1:1,700

MAP REFERENCE: 20141020_MR_MoreheadStStHville_AM

PRODUCED: ESR, Townsville Office, October 2014

DATA SOURCES:
Waypoints, DEHP, Oct. 2014;
Digital Ortho-rectified Aerial photography, DNRM, Oct. 2013.
All data current at time of publication.

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DISCLAIMER:
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Environmental

CERTIFICATE OF ANALYSIS

Work Order	: EB1441116	Page	: 1 of 3
Client	: QUEENSLAND DEPARTMENT OF ENVIRONMENT AND HERITAGE PROTECTION	Laboratory	: Environmental Division Brisbane
Contact	: MR ANTHONY MORRISON	Contact	: Customer Services EB
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Project	: 15 Morehead St	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 26-Aug-2014 08:35
C-O-C number	: 133112	Issue Date	: 03-Sep-2014 19:07
Sampler	: ANTHONY MORRISON	No. of samples received	: 3
Site	:	No. of samples analysed	: 3
Quote number	: ----		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results



NATA Accredited Laboratory 825

Accredited for compliance with
ISO/IEC 17025.

Signatories

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

Signatories	Position	Accreditation Category
Andrew Epps	Senior Inorganic Chemist	Brisbane Inorganics
Greg Vogel	Laboratory Manager	Brisbane Inorganics
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics



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.

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.

- EG020-T (Total Metals): LOR raised due to saline sample matrix.

RTI DL RELEASE - EHP



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID		W1	W2	W3	----	----	
Client sampling date / time				22-Aug-2014 15:02		22-Aug-2014 15:40		22-Aug-2014 15:45		----	----
Compound	CAS Number	LOR	Unit	EB1441116-001		EB1441116-002		EB1441116-003		-----	-----
				Result		Result		Result		Result	Result
ED037P: Alkalinity by PC Titrator											
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1		<1		<1		----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1		<1		<1		----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	91		111		116		----	----
Total Alkalinity as CaCO3	----	1	mg/L	91		111		116		----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA											
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	714		2400		2290		----	----
ED045G: Chloride by Discrete Analyser											
Chloride	16887-00-6	1	mg/L	4840		17700		17100		----	----
ED093F: Dissolved Major Cations											
Calcium	7440-70-2	1	mg/L	142		394		388		----	----
Magnesium	7439-95-4	1	mg/L	139		1260		1240		----	----
Sodium	7440-23-5	1	mg/L	3070		10500		10300		----	----
Potassium	7440-09-7	1	mg/L	123		449		441		----	----
EG020T: Total Metals by ICP-MS											
Arsenic	7440-38-2	0.001	mg/L	0.004		<0.050		<0.050		----	----
Cadmium	7440-43-9	0.0001	mg/L	0.0003		<0.0050		<0.0050		----	----
Chromium	7440-47-3	0.001	mg/L	<0.001		<0.010		<0.010		----	----
Copper	7440-50-8	0.001	mg/L	0.010		<0.050		<0.050		----	----
Nickel	7440-02-0	0.001	mg/L	<0.001		<0.050		<0.050		----	----
Lead	7439-92-1	0.001	mg/L	0.005		<0.010		<0.010		----	----
Zinc	7440-66-6	0.005	mg/L	0.110		<0.050		<0.050		----	----
EN055: Ionic Balance											
^ Total Anions	----	0.01	meq/L	153		551		532		----	----
^ Total Cations	----	0.01	meq/L	155		592		581		----	----
Ionic Balance	----	0.01	%	0.64		3.50		4.34		----	----