

CERTIFICATE OF ANALYSIS

Work Order	: EW1403533	Page	: 1 of 3
Client	: WOLLONGONG CITY COUNCIL	Laboratory	: Environmental Division NSW South Coast
Contact	: MR WAYDE PETERSON	Contact	: Glenn Davies
Address	: 41 BURELLI STREET WOLLONGONG NSW, AUSTRALIA 2500	Address	: 99 Kenny Street, Wollongong 2500 Unit 4 / 13 Geary Place, PO Box 3105, North Nowra 2541 AUSTRALIA
E-mail	: wpeterson@wollongong.nsw.gov.au	E-mail	: glenn.davies@alsglobal.com
Telephone	: +61 02 4227 7111	Telephone	: 02 4225 3125
Facsimile	: +61 02 4227 7277	Facsimile	: 02 4225 3128
Project	: Helensburgh Stormwater adjacent to Pony Club	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: 3030159		
C-O-C number	: ----	Date Samples Received	: 21-NOV-2014
Sampler	: Craig Wilson	Issue Date	: 28-NOV-2014
Site	: ----		
Quote number	: SY/454/14 Tender	No. of samples received	: 1
		No. of samples analysed	: 1

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

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
Ankit Joshi	Inorganic Chemist	Sydney Inorganics
Glenn Davies	Environmental Services Representative	Laboratory - Wollongong
Shobhna Chandra	Metals Coordinator	Sydney Inorganics
Tony DeSouza	Senior Microbiologist	Sydney Microbiology



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

- **Field data supplied by ALS Wollongong.**
- **Field tests completed on day of sampling/receipt.**
- **MW006 is ALS's internal code and is equivalent to AS4276.7.**
- **Sampling completed as per FWI-EN002 Surface Water Sampling.**



Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)

Client sample ID

**Stormwater adjacent
to
Pony Club**

Client sampling date / time

21-NOV-2014 11:00

Compound	CAS Number	LOR	Unit	EW1403533-001	----	----	----	----
EA005FD: Field pH								
pH	----	0.1	pH Unit	7.3	----	----	----	----
EA010FD: Field Conductivity								
Electrical Conductivity (Non Compensated)	----	1	µS/cm	423	----	----	----	----
EA015: Total Dissolved Solids								
Total Dissolved Solids @180°C	----	10	mg/L	252	----	----	----	----
EA075FD: Field Redox Potential								
Redox Potential	----	0.1	mV	-6.0	----	----	----	----
ED093T: Total Major Cations								
Potassium	7440-09-7	1	mg/L	7	----	----	----	----
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	0.06	----	----	----	----
EP005: Total Organic Carbon (TOC)								
Total Organic Carbon	----	1	mg/L	4	----	----	----	----
EP025FD: Field Dissolved Oxygen								
Dissolved Oxygen	----	0.01	mg/L	7.29	----	----	----	----
MW006: Faecal Coliforms & E.coli by MF								
Faecal Coliforms	----	1	CFU/100mL	110	----	----	----	----