



## CERTIFICATE OF ANALYSIS

**Work Order** : **EW1512530**  
**Client** : **WOLLONGONG CITY COUNCIL**  
**Contact** : **MR WAYDE PETERSON**  
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**WOLLONGONG NSW, AUSTRALIA 2500**

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**Telephone** : **+61 02 4227 7111**  
**Facsimile** : **+61 02 4227 7277**  
**Project** : **Stormwater adjacent to Pony Club**  
**Order number** : **3044522**  
**C-O-C number** : **----**  
**Sampler** : **Craig Wilson**  
**Site** : **----**

**Quote number** : **----**

**Page** : **1 of 3**  
**Laboratory** : **Environmental Division NSW South Coast**  
**Contact** : **Glenn Davies**  
**Address** : **1/19 Ralph Black Dr, North Wollongong 2500**  
**4/13 Geary Pl, North Nowra 2541**  
**Australia**  
**E-mail** : **glenn.davies@alsglobal.com**  
**Telephone** : **02 42253125**  
**Facsimile** : **W 02 42253128 N 02 44232083**  
**QC Level** : **NEPM 2013 B3 & ALS QC Standard**  
**Date Samples Received** : **11-Nov-2015 14:05**  
**Date Analysis Commenced** : **11-Nov-2015**  
**Issue Date** : **18-Nov-2015 15:09**

**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.

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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Ankit Joshi	Inorganic Chemist	Sydney Inorganics
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics
Glenn Davies	Environmental Services Representative	Laboratory - Wollongong
Tony DeSouza	Senior Microbiologist	Sydney Microbiology



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## 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

∅ = ALS is not NATA accredited for these tests.

- Sampling and sample data supplied by ALS Wollongong.
  - Sampling completed as per FWI-EN002 Surface Water Sampling.
  - Field tests completed on day of sampling/receipt.
  - Membrane filtration results for MW006 are reported as an estimate (~) due to the presence of many non-target organism colonies that may have inhibited the growth of the target organisms on the filter membrane. It may be informative to record this fact.
  - MW006 is ALS's internal code and is equivalent to AS4276.7.
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### Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Stormwater adjacent to Ponyclub	----	----	----	----
Client sampling date / time				11-Nov-2015 11:40	----	----	----	----	----
Compound	CAS Number	LOR	Unit	EW1512530-001	-----	-----	-----	-----	-----
				Result	Result	Result	Result	Result	Result
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	7.5	----	----	----	----	----
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	404	----	----	----	----	----
<b>EA015: Total Dissolved Solids</b>									
Total Dissolved Solids @180°C	----	10	mg/L	202	----	----	----	----	----
<b>EA075FD: Field Redox Potential</b>									
Redox Potential	----	0.1	mV	36.0	----	----	----	----	----
<b>ED093T: Total Major Cations</b>									
Potassium	7440-09-7	1	mg/L	6	----	----	----	----	----
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	0.01	----	----	----	----	----
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	6	----	----	----	----	----
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	8.72	----	----	----	----	----
<b>MW006: Faecal Coliforms &amp; E.coli by MF</b>									
Faecal Coliforms	----	1	CFU/100mL	~240	----	----	----	----	----