

CERTIFICATE OF ANALYSIS

Work Order : EW1904934 Page

WOLLONGONG NSW, AUSTRALIA 2500

Client : WOLLONGONG CITY COUNCIL Laboratory : Environmental Division NSW South Coast

Contact : DELLA KUTZNER Contact : Glenn Davies

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: 1 of 3

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Project : Stormwater adjacent to Pony Club Date Samples Received : 13-Noy-2019 15:20

Order number : 1011047 Date Analysis Commenced : 13-Nov-2019

C-O-C number : ---- Issue Date : 25-Nov-2019 16:28

Sampler : Robert DaLio

Site : ----

Quote number : WO/005/18 TENDER

No. of samples received : 1

No. of samples analysed : 1

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		
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW		
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics, Smithfield, NSW		
Robert DaLio	Sampler	Laboratory - Wollongong, NSW		
Tony DeSouza	Senior Microbiologist	Sydney Microbiology, Smithfield, NSW		

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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.

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.
- MF = membrane filtration
- CFU = colony forming unit
- Microbiological Comment: In accordance with ALS work instruction QWI-MIC/04, membrane filtration result is reported an approximate (~) when the count of colonies on the filtered membrane is outside the range of 10 100cfu.
- Sampling and sample data supplied by ALS Wollongong.
- 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.
- Sampling Completed as per EN/67.4 Lakes and Reservoirs
- 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						
	Cli	ent sampl	ing date / time	13-Nov-2019 09:25						
Compound	CAS Number	LOR	Unit	EW1904934-001						
P. C.				Result						
EA005FD: Field pH										
pH		0.1	pH Unit	7.6						
EA010FD: Field Conductivity										
Electrical Conductivity (Non Compensated)		1	μS/cm	694						
EA015: Total Dissolved Solids dried at 180 ± 5 °C										
Total Dissolved Solids @180°C		10	mg/L	492						
EA075FD: Field Redox Potential										
Redox Potential		0.1	mV	337						
ED093T: Total Major Cations										
Potassium	7440-09-7	1	mg/L	19						
EK055G: Ammonia as N by Discrete Analy	yser									
Ammonia as N	7664-41-7	0.01	mg/L	0.23						
EP005: Total Organic Carbon (TOC)										
Total Organic Carbon		1	mg/L	18						
EP025FD: Field Dissolved Oxygen										
Dissolved Oxygen		0.01	mg/L	6.78						
MW006: Faecal Coliforms & E.coli by MF										
Faecal Coliforms		1	CFU/100mL	~7						