

CERTIFICATE OF ANALYSIS

Work Order	: WN1602500	Page	: 1 of 2
Amendment	: (Preliminary Report)	Laboratory	: ALS Water - Newcastle
Client	: OBERON COUNCIL	Contact	:
Contact	: Mr Richard Robinson	Address	: 5/585 Maitland Road Newcastle West NSW Australia 2304
Address	: 137-139 OBERON STREET OBERON NSW, AUSTRALIA 2787	Telephone	: +61 2 4014 2500
Telephone	: +61 02 6393 5000	Date Samples Received	: 04-Aug-2016 11:20
Project	: ---	Date Analysis Commenced	: 04-Aug-2016
Order number	: ---	Issue Date	: 05-Aug-2016 14:34
C-O-C number	: ---		
Sampler	: ---		
Site	: ---		
Quote number	: ---		
No. of samples received	: 4		
No. of samples analysed	: 4		



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

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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Neil Martin	Team Leader - Chemistry	Chemistry, Newcastle West, NSW
Robin Woodward	Principal Microbiologist	Microbiology, Newcastle West, NSW

(Preliminary Report)



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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.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Client sample ID			ExPond Works Discharge EMP1	Up-Stream EMP3	Down-Stream EMP4	ExPond Works Discharge EMP1	----
Client sampling date / time				01-Aug-2016 08:15	01-Aug-2016 08:15	01-Aug-2016 08:15	01-Aug-2016 13:30	----	
Compound	CAS Number	LOR	Unit	WN1602500-001	WN1602500-002	WN1602500-003	WN1602500-004	-----	
				Result	Result	Result	Result	----	
EA005: pH									
pH Value	----	0.1	pH Unit	Not Authorised	Not Authorised	Not Authorised	----	----	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	1	mg/L	17	----	----	----	----	
EK055A: Ammonia as N									
Ammonia as N	7664-41-7	0.05	mg/L	0.28	----	----	----	----	
EK059A: Nitrite and Nitrate as N (NOx)									
Nitrite + Nitrate as N	----	0.05	mg/L	7.70	0.12	1.80	----	----	
EK067A: Total Phosphorus as P									
Total Phosphorus as P	----	0.05	mg/L	0.38	0.05	0.10	----	----	
EP008.WN: Chlorophyll a and Pheophytin a									
Chlorophyll a	----	-	µg/L	Not Authorised	----	----	----	----	
EP021: Total Oil and Grease									
Total Oil and Grease	----	-	mg/L	Not Authorised	----	----	----	----	
EP030.WN: Biochemical Oxygen Demand (BOD)									
Biochemical Oxygen Demand	----	-	mg/L	Not Authorised	----	----	----	----	
MW006.WN: Thermotolerant Coliforms & E.coli (MF)									
Faecal Coliforms	----	1	CFU/100mL	----	----	----	<9	----	