

## **CERTIFICATE OF ANALYSIS**

**Work Order** : WN1702516

Client OBERON COUNCIL

Contact : Mr Richard Robinson

Address : 137-139 OBERON STREET

**OBERON NSW.AUSTRALIA 2787** 

Telephone : +61 02 6393 5000

Project OBERON WASTEWATER

Order number : 51205 C-O-C number

Sampler : Richard Robinson

Site

Quote number : WN Blanket Quote

No. of samples received : 4 No. of samples analysed : 4 Page : 1 of 3

Date Samples Received

Laboratory : ALS Water - Newcastle

Contact : Andrea Swan

Address 5/585 Maitland Road Newcastle West NSW Australia 2304

: 14-Jun-2017 09:00

Telephone : +61 2 4014 2500

**Date Analysis Commenced** : 14-Jun-2017

Issue Date · 26-Jun-2017 16:09



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

Andrea Swan Chemistry, Newcastle West, NSW Manager Neil Martin Team Leader - Chemistry Chemistry, Newcastle West, NSW **Technical Officer** Suzanne Meldrum Microbiology, Newcastle West, NSW Page : 2 of 3

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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 no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

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.

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## 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			13-Jun-2017 10:15	13-Jun-2017 09:58	13-Jun-2017 10:00	13-Jun-2017 13:00	
Compound	CAS Number	LOR	Unit	WN1702516-001	WN1702516-002	WN1702516-003	WN1702516-004	
				Result	Result	Result	Result	
EA005: pH								
pH Value		0.01	pH Unit	7.61	6.90	6.92		
EA025: Total Suspended Solids dried at	104 ± 2°C							
Suspended Solids (SS)		1	mg/L	8				
EK055A: Ammonia as N								
Ammonia as N	7664-41-7	0.05	mg/L	7.30				
EK059A: Nitrite and Nitrate as N (NOx)								
Nitrite + Nitrate as N		0.05	mg/L	2.20	0.16	0.79		
EK061A: Total Kjeldahl Nitrogen as N								
Total Kjeldahl Nitrogen as N		0.2	mg/L	9.6	0.5	0.7		
EK067A: Total Phosphorus as P								
Total Phosphorus as P		0.05	mg/L	0.25	<0.05	0.07		
EP008.WN: Chlorophyll a and Pheophytir	ı a							
Chlorophyll a		1	μg/L	<1.0				
EP021: Total Oil and Grease								
Total Oil and Grease		2	mg/L	2				
EP030.WN: Biochemical Oxygen Demand	i (BOD)							
Biochemical Oxygen Demand		2	mg/L	10				
MW006.WN: Thermotolerant Coliforms &	E.coli (MF)							
Faecal Coliforms		1	CFU/100mL				<9	