

## CERTIFICATE OF ANALYSIS

WN1903693 Work Order

Client **OBERON COUNCIL** 

Contact Lou Grozdanouski

Address 137-139 OBERON STREET

**OBERON NSW, AUSTRALIA 2787** 

Telephone

Project OBERON WASTEWATER

Order number 8617

C-O-C number

Sampler

Site

Quote number : WN Blanket Quote

No. of samples received

: 4 No. of samples analysed : 3 Page

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Laboratory

: ALS Water - Newcastle

Contact Andrea Swan

Address

5/585 Maitland Road Newcastle West NSW Australia 2304

Telephone

: +61 2 4014 2500

**Date Samples Received** 

: 04-Jun-2019 08:30

**Date Analysis Commenced** 

: 04-Jun-2019

Issue Date

: 13-Jun-2019 09:36



Accreditation No. 625 Accredited for compliance with ISO/IEC 17025 - Testina

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

Katie Draper Neil Martin

Suzanne Meldrum

**Quality Coordinator** 

Team Leader - Chemistry

Technical Officer

Accreditation Category

Chemistry, Newcastle West: NSW Chemistry, Newcastle West, NSW

Microbiology, Newcastle West, 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.

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## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID  Client sampling date / time			ExPond Works Discharge EMP1 03-Jun-2019 10:00	Up-Stream EMP3 03-Jun-2019 10:15	03-Jun-2019 10:30		
Compound	CAS Number	LOR	Unit	WN1903693-001	WN1903693-002	WN1903693-003	*********	
				Result	Result	Result	—	
EA005; p								
pH Value	*****	0.01	pH Unit	8.12	7.01	6.96	Nº Yang-all-add about mark may pro-	
EA025: Total Suspend <b>ed Solids dried</b>	at 104 ± 2°C							
Suspended Solids (SS)	100	1	mg/L	9	-		h. 1986a diliki ili Elminido h. h wh. n. o napamay ja meg	4-4-
EK055A: Ammonia as N								-
Ammonia as N	7664-41-7	0.05	mg/L	1.60	_			
EK059A: Nitrite and Nitrate as N (NO	)						And the second of the second o	
Nitrite + Nitrate as N		0.05	mg/L	4.90	0.17	0.97	A metric of the matter continues of the district of the con-	
EK061A: Total Kjeldahl Nitrogen as N				أنحب مسا			4 " 10"	
Total Kjeldahl Nitrogen as N	****	0.2	mg/L	2.9	0.3	<0.2		
EK062A: Total Nitrogen as		150						
Total Nitrogen as N	118	0.1	mg/L	7.8	0.4	1.1	West of the section o	TAKE:
EK067A: Total Phosphorus as P	ALC: UNK	100						
Total Phosphorus as P		0.05	mg/L	0.27	<0.05	0.07	THE CONTRACT OF STREET	
EP008.WN; Chlorophyll a and Pheoph	ytin a							
Chlorophyll a	****	1.0	µg/L	84.3	-			1
EP021: Total Oil and Greas		100						
Total Oil and Grease	- 4	2	mg/L	3			. Mr. of /	T men
EP030.WN: Biochemical Oxygen Dem	and (BOD)							
Biochemical Oxygen Demand		2	mg/L	8				
MW006.WN: Thermotolerant Coliform	s & E.coli (MF)			-				
Faecal Coliforms		1	CFU/100mL	~61				T