

## CERTIFICATE OF ANALYSIS

Work Order WN2000060

Client **OBERON COUNCIL** Laboratory

Contact Water Oberon

Address Address : 137-139 OBERON STREET

**OBERON NSW, AUSTRALIA 2787** Telephone

**Project OBERON WASTE WATER** 

Order number 4590 C-O-C number

Sampler Andrew Krol

Site

Quote number : WN Blanket Quote

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

ALS Water - Newcastle

Andrea Swan Contact

5/585 Maitland Road Newcastle West NSW Australia 2304

Telephone +61 2 4014 2500

**Date Samples Received** 07-Jan-2020 08:45

**Date Analysis Commenced** 07-Jan-2020 **Issue Date** 13-Jan-2020 15:14





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

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

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Project : OBERON WASTE WATER



## **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.

Thermotolerant coliform result is estimated due to the high number of non-target colonies present. Result may be underestimated,

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OBERON COUNCIL OBERON WASTE WATER





ub-Matrix: WATER Matrix: WATER)	Client sample ID  Client sampling date / time			ExPond Works Discharge EMP1 06-Jan-2020 09:45	Up-Stream EMP3 06-Jan-2020 09:30	Down-Stream EMP4  06-Jan-2020 10:00	ExPond Works Discharge EMP1 06-Jan-2020 11:00	
Compound	CAS Number	LOR	Unit	WN2000060-001	WN2000060-002	WN2000060-003	WN200060-004	*******
				Result	Result	Result	Resuit	
EA005: pl								
pH Value	110	0.01	pH Unit	7.80	6.90	7.02		P. <del>etti</del> ll
A025: Total Suspende <b>d Solids dried</b>	at 104 ± 2°C							
Suspended Solids (SS)	++++	1	mg/L	50				
EK055A: Ammonia as N								
Ammonia as N	7664-41-7	0.05	mg/L	0.36	Cerre:	1 <del>2111</del> 77	(1 <del>110</del> )	K <del>ett</del> a
EK059A: Nitrite and Nitrate as N (NOx								
Nitrite + Nitrate as N	167	0.05	mg/L	0.36	<0.05	0.09		80-00
EK061A: Total Kjeldah! Nitrogen as N				Managery School Control of		After the second contract of the second contr		, to the same of t
Total Kjeldahi Nitrogen as N		0.2	mg/L	5,5	0.5	0.7		
EK062A: Total Nitrogen as N			المستقولين المستوالين				<u></u>	
Total Nitrogen as N	****	3.0	mg/L	5.8	0.5	0.8		
EK067A: Total Phosphorus as								
Total Phosphorus as P	100	0.05	mg/L	2.24	<0.05	0.21		
EP008.WN: Chlorophyll a and P <b>heoph</b>	ytin a			The state of the s				
Chlorophyll a	****	1.0	µg/L	228				***
EP021: Total Oil and Greas								
Total Oil and Grease	. 22	2	mg/L	<2		1		
EP030.WN: Biochemical Oxygen Dem	and (BOD)					and the standard of the standa		
Biochemical Oxygen Demand		2	mg/L	11	( data)	****		****
MW006.WN: Thermotolerant Coliform:	s & F coli (MF)				·			
Faecal Coliforms	3 2.331 (111	1	CFU/100mL	processing age		1	~18	