

CERTIFICATE OF ANALYSIS

Work Order : WN2001938

Client : OBERON COUNCIL

Contact : Water Oberon

Address : 137-139 OBERON STREET

OBERON NSW, AUSTRALIA 2787

Telephone : ---

Project : Oberon Waste Water R/E 4943

Order number : 4943 C-O-C number : ----

Sampler : Andrew Krol

Site : ---

Quote number : WN Blanket Quote

No. of samples received : 4
No. of samples analysed : 4

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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 : 03-Mar-2020 08:45

Date Analysis Commenced : 02-Mar-2020

Issue Date : 09-Mar-2020 15:35



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

Gregory Towers Technical Officer Chemistry, Newcastle West, NSW
Neil Martin Team Leader - Chemistry Chemistry, Newcastle West, NSW
Suzanne Meldrum Senior Technical Officer 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.
- 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 Client





Analytical Results

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID			ExPond Works Discharge EMP1	Up-Stream EMP3	Down-Stream EMP4	ExPond Works Discharge EMP1	
	Cli	ent sampli	ng date / time	02-Mar-2020 09:15	02-Mar-2020 09:00	02-Mar-2020 09:30	02-Mar-2020 10:30	
Compound	CAS Number	LOR	Unit	WN2001938-001	WN2001938-002	WN2001938-003	WN2001938-004	
				Result	Result	Result	Result	
EA005: pH								
pH Value		0.01	pH Unit	6.14	6.93	7.06		
EA025: Total Suspended Solids dried at 104 ± 2°C								
Suspended Solids (SS)		1	mg/L	55				
EK055A: Ammonia as N								
Ammonia as N	7664-41-7	0.05	mg/L	0.14				
EK059A: Nitrite and Nitrate as N (NOx)								
Nitrite + Nitrate as N		0.05	mg/L	0.29	<0.05	0.08		
EK061A: Total Kjeldahl Nitrogen as N								
Total Kjeldahl Nitrogen as N		0.2	mg/L	4.4	0.5	0.9		
EK062A: Total Nitrogen as N								
Total Nitrogen as N		0.1	mg/L	4.7	0.5	1.0		
EK067A: Total Phosphorus as P								
Total Phosphorus as P		0.05	mg/L	1.30	<0.05	0.17		
EP008.WN: Chlorophyll a and Pheophytin a	1							
Chlorophyll a		1.0	μg/L	328				
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	28				
MW006.WN: Thermotolerant Coliforms & E.coli (MF)								
Faecal Coliforms		1	CFU/100mL				130	