

CERTIFICATE OF ANALYSIS

Work Order : WN1701819 Client : OBERON COUNCIL Contact : Mr Richard Robinson Address : 137-139 OBERON STREET OBERON NSW,AUSTRALIA 2787 Telephone : +61 02 6393 5000 Project : Oberon Order number : 50898 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 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 : 02-May-2017 08:30 Date Analysis Commenced : 02-May-2017 Issue Date : 08-May-2017 15:42
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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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Craig Glover	Microbiological Supervisor	Microbiology, Newcastle West, NSW
Neil Martin	Team Leader - Chemistry	Chemistry, Newcastle West, NSW



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.



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-May-2017 10:30	01-May-2017 10:35	01-May-2017 10:40	01-May-2017 13:00	----	----
Compound	CAS Number	LOR	Unit	WN1701819-001	WN1701819-002	WN1701819-003	WN1701819-004	-----	----
				Result	Result	Result	Result	----	----
EA005: pH									
pH Value	----	0.01	pH Unit	7.68	6.88	6.97	----	----	----
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	1	mg/L	10	----	----	----	----	----
EK055A: Ammonia as N									
Ammonia as N	7664-41-7	0.05	mg/L	5.00	----	----	----	----	----
EK059A: Nitrite and Nitrate as N (NOx)									
Nitrite + Nitrate as N	----	0.05	mg/L	2.30	0.10	0.64	----	----	----
EK061A: Total Kjeldahl Nitrogen as N									
Total Kjeldahl Nitrogen as N	----	0.2	mg/L	7.1	0.7	0.8	----	----	----
EK067A: Total Phosphorus as P									
Total Phosphorus as P	----	0.05	mg/L	0.79	<0.05	0.08	----	----	----
EP008.WN: Chlorophyll a and Pheophytin a									
Chlorophyll a	----	1	µg/L	24.7	----	----	----	----	----
EP021: Total Oil and Grease									
Total Oil and Grease	----	2	mg/L	<2	----	----	----	----	----
EP030.WN: Biochemical Oxygen Demand (BOD)									
Biochemical Oxygen Demand	----	2	mg/L	10	----	----	----	----	----
MW006.WN: Thermotolerant Coliforms & E.coli (MF)									
Faecal Coliforms	----	1	CFU/100mL	----	----	----	~27	----	----