

## CERTIFICATE OF ANALYSIS

**Work Order** : **WN2211007**  
**Client** : **OBERON COUNCIL**  
**Contact** : ANDREW KROL  
**Address** : 137-139 OBERON STREET  
 OBERON NSW,AUSTRALIA 2787  
  
**Telephone** : ----  
**Project** : OBERON WASTE WATER  
**Order number** : 16720  
**C-O-C number** : ----  
**Sampler** : Andrew Krol  
**Site** : ----  
**Quote number** : EN/222  
**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** : 06-Sep-2022 09:30  
**Date Analysis Commenced** : 06-Sep-2022  
**Issue Date** : 12-Sep-2022 13:53



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, unless the sampling was conducted by ALS. 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>
Andrea Hropot	Technical Assistant	Microbiology, Newcastle West, NSW
Christopher Cameron	Laboratory Technician	Chemistry, Newcastle West, NSW
Gregory Towers	Technical Officer	Chemistry, Newcastle West, NSW
Neil Martin	Team Leader - Chemistry	Chemistry, Newcastle West, NSW
Ruby Buller	Laboratory Technician	Chemistry, Newcastle West, NSW



## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the 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 Contract 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.

- Sample 004. Holding time was not met. Therefore Microbiological result may be indicative.



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	ExPond Works Discharge EMP1	Up-Stream EMP3	Down-Stream EMP4	ExPond Works Discharge EMP1	----
Sampling date / time				05-Sep-2022 09:15	05-Sep-2022 09:00	05-Sep-2022 09:30	05-Sep-2022 10:00	----	----
Compound	CAS Number	LOR	Unit	WN2211007-001	WN2211007-002	WN2211007-003	WN2211007-004	-----	----
				Result	Result	Result	Result	----	----
<b>EA005: pH</b>									
pH Value	----	0.01	pH Unit	7.72	7.53	7.42	----	----	----
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>									
Suspended Solids (SS)	----	5	mg/L	<5	----	----	----	----	----
<b>EK055A: Ammonia as N</b>									
Ammonia as N	7664-41-7	0.05	mg/L	0.99	----	----	----	----	----
<b>EK059A: Nitrite and Nitrate as N (NOx)</b>									
Nitrite + Nitrate as N	----	0.05	mg/L	5.51	0.25	0.31	----	----	----
<b>EK061A: Total Kjeldahl Nitrogen as N</b>									
Total Kjeldahl Nitrogen as N	----	0.2	mg/L	2.2	8.0	9.2	----	----	----
<b>EK062A: Total Nitrogen as N</b>									
Total Nitrogen as N	----	0.1	mg/L	7.7	8.2	9.5	----	----	----
<b>EK067A: Total Phosphorus as P</b>									
Total Phosphorus as P	----	0.05	mg/L	0.38	<0.05	<0.05	----	----	----
<b>EP008.WN: Chlorophyll a and Pheophytin a</b>									
Chlorophyll a	----	1.0	µg/L	1.3	----	----	----	----	----
Pheophytin a	----	1.0	µg/L	<1.0	----	----	----	----	----
<b>EP021: Total Oil and Grease</b>									
Total Oil and Grease	----	2	mg/L	<2	----	----	----	----	----
<b>EP030.WN: Biochemical Oxygen Demand (BOD)</b>									
Biochemical Oxygen Demand	----	2	mg/L	3	----	----	----	----	----
<b>MW006.WN: Thermotolerant Coliforms &amp; E.coli (MF)</b>									
Faecal Coliforms	----	1	CFU/100mL	----	----	----	120	----	----