

CERTIFICATE OF ANALYSIS

Work Order : WN2400306

Client : OBERON COUNCIL

Contact : Andrew Krol

Address : 137-139 OBERON STREET

OBERON NSW, AUSTRALIA 2787

Telephone : ---

Project : end December 2023 river samples

Order number : PO 002662

C-O-C number : ----

Sampler : Luke Renshaw

Site : ----

Quote number : EN/222
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 : 09-Jan-2024 08:45

Date Analysis Commenced : 09-Jan-2024

Issue Date : 16-Jan-2024 20:27



ed by ALS. This document shall

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.

| Signatories | Position | Accreditation Category | | |
|---------------------|---------------------------------|-----------------------------------|--|--|
| Christopher Cameron | Laboratory Technician | Chemistry, Newcastle West, NSW | | |
| Gregory Towers | Technical Officer | Chemistry, Newcastle West, NSW | | |
| Ruby Buller | Laboratory Technician | Chemistry, Newcastle West, NSW | | |
| Sarah Dowley | Microbiology Section Supervisor | Microbiology, Newcastle West, NSW | | |

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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.
- Microbiological Comment: In accordance with ALS work instruction QWI-MIC/04, membrane filtration result is reported an approximate (~) when the count of colonies on the filtered membrane is outside the range of 10 100cfu
- MW006 is ALS's internal code and is equivalent to AS4276.5.
- CFU = colony forming unit
- MF = membrane filtration

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(ALS)

Analytical Results

| Sub-Matrix: WATER (Matrix: WATER) | | Sampli | Sample ID | ExPond Works Discharge EMP1 08-Jan-2024 08:00 | Up-Stream EMP3 08-Jan-2024 07:45 | Down-Stream EMP4 08-Jan-2024 08:15 | ExPond Works Discharge EMP1 08-Jan-2024 08:30 | |
|--|-------------|--------|-----------|---|-----------------------------------|-------------------------------------|---|---|
| Compound | CAS Number | LOR | Unit | WN2400306-001 | WN2400306-002 | WN2400306-003 | WN2400306-004 | |
| | | | | Result | Result | Result | Result | |
| EA005: pH | | | | | | | | |
| pH Value | | 0.01 | pH Unit | 7.36 | 7.35 | 6.64 | | |
| EA025: Total Suspended Solids dried at | t 104 ± 2°C | | | | | | | |
| Suspended Solids (SS) | | 5 | mg/L | 7 | | | | |
| EK055A: Ammonia as N | | | | | | | | |
| Ammonia as N | 7664-41-7 | 0.05 | mg/L | 0.33 | | | | |
| EK059A: Nitrite and Nitrate as N (NOx) | | | | | | | | |
| Nitrite + Nitrate as N | | 0.05 | mg/L | 1.63 | <0.05 | 0.23 | | |
| EK061A: Total Kjeldahl Nitrogen as N | | | | | | | | |
| Total Kjeldahl Nitrogen as N | | 0.2 | mg/L | 2.0 | 0.5 | 0.5 | | |
| EK062A: Total Nitrogen as N | | | | | | | | |
| Total Nitrogen as N | | 0.1 | mg/L | 3.6 | 0.5 | 0.7 | | |
| EK067A: Total Phosphorus as P | | | | | | | | |
| Total Phosphorus as P | | 0.05 | mg/L | 0.59 | <0.05 | 0.09 | | |
| EP008.WN: Chlorophyll a and Pheophyl | tin a | | | | | | | |
| Chlorophyll a | | 1.0 | μg/L | 67.2 | | | | |
| EP021: Total Oil and Grease | 11 11 21 | | | | | | | |
| Total Oil and Grease | | 2 | mg/L | <2 | | | | |
| EP030.WN: Biochemical Oxygen Demar | nd (BOD) | | | | | | | · |
| Biochemical Oxygen Demand | | 2 | mg/L | 10 | | | | |
| MW006: Thermotolerant Coliforms & E. | coli by MF | | | | | | | |
| Faecal Coliforms | | 1 | CFU/100mL | | | | ~1000 | |