

# **CERTIFICATE OF ANALYSIS**

Work Order : **EW2003794** Page : 1 of 5

Client : WINGECARRIBEE SHIRE COUNCIL Laboratory : Environmental Division NSW South Coast

Contact : Helen Harrison Contact : Tyler Anderson

Address : PO BOX 141 Address : 1/19 Ralph Black Dr, North Wollongong 2500

MOSSVALE NSW 4/13 Geary PI, North Nowra 2541

AUSTRALIA Australia NSW Australia

Telephone : +61 2 8784 8555

Project : RRC Quarterly Date Samples Received : 21-Aug-2020 15:43

Order number : --- Date Analysis Commenced : 21-Aug-2020

C-O-C number : ---- Issue Date : 31-Aug-2020 12:03
Sampler : Glenn Davies

Site : ---

No. of samples analysed : 6

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:

: 6

: WO/067/12

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.

Accreditation No. 825

Accredited for compliance with ISO/IEC 17025 - Testing

### Signatories

Quote number

No. of samples received

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

Ankit Joshi Inorganic Chemist Sydney Inorganics, Smithfield, NSW Glenn Davies Environmental Services Representative Laboratory - Wollongong, NSW Ivan Taylor Analyst Sydney Inorganics, Smithfield, NSW

Page : 2 of 5 Work Order : EW2003794

Client : WINGECARRIBEE SHIRE COUNCIL

Project : RRC Quarterly



### **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 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

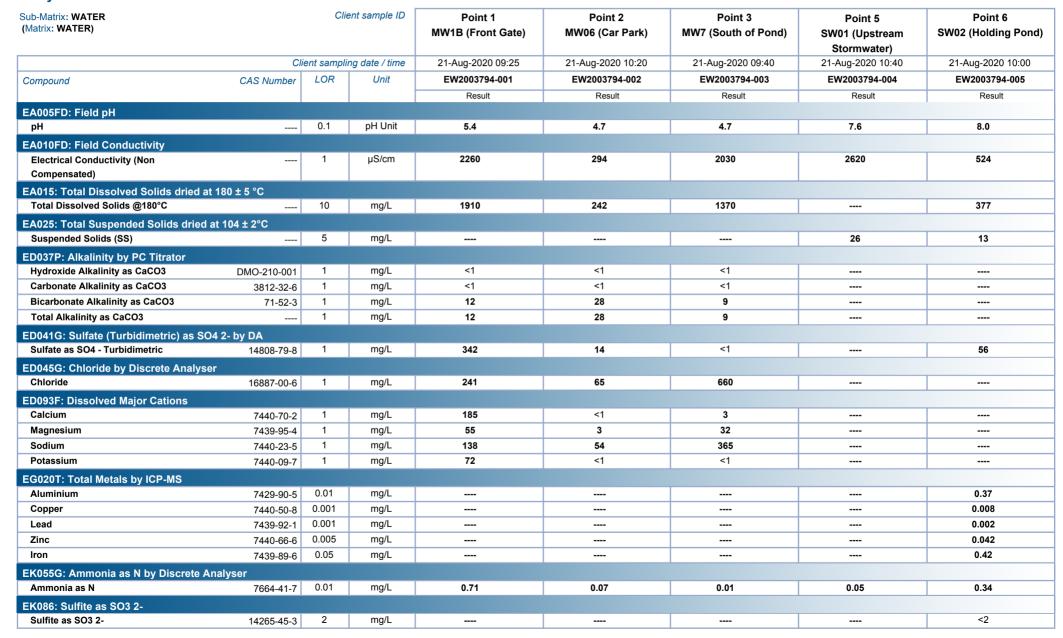
- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.
- Analytical work for this work order will be conducted at ALS Sydney.
- The MB for EG020T has been analysed on the run and all results are less than the LOR. Due to a software issue which is under investigation, the MB results aren't uploaded
- TDS by method EA-015 may bias high for various samples due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- EN055: Ionic Balance out of acceptable limits for sample EW2003794-#001 due to analytes not quantified in this report.
- pH performed by ALS Wollongong via in-house method EA005FD and EN67 PK.
- Electrical conductivity performed by ALS Wollongong via in-house method EA010FD and EN67 PK.
- Sampling and groundwater depth measurements completed by ALS Wollongong via inhouse sampling method EN/67.11 Groundwater Sampling.
- Sampling completed by ALS Wollongong in accordace with in-house sampling method EN/67.6 Rivers and Streams.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

Page : 3 of 5 Work Order : EW2003794

Client : WINGECARRIBEE SHIRE COUNCIL

Project : RRC Quarterly

### **Analytical Results**



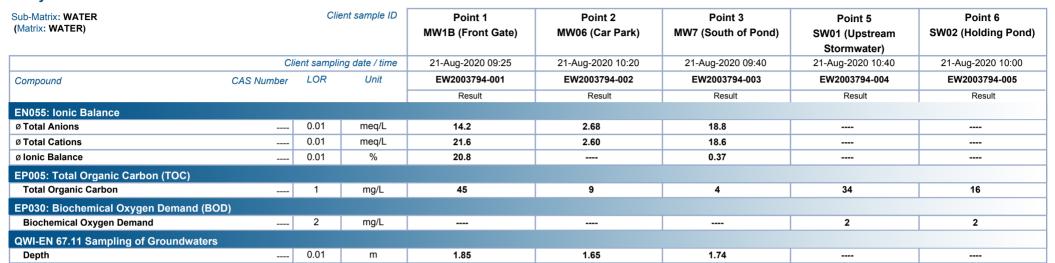


Page : 4 of 5 Work Order : EW2003794

Client : WINGECARRIBEE SHIRE COUNCIL

Project : RRC Quarterly

## Analytical Results





Page : 5 of 5 Work Order : EW2003794

Client : WINGECARRIBEE SHIRE COUNCIL

Project : RRC Quarterly

## Analytical Results

