



ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order : **WN1900691**
Client : **WARRUMBUNGL SHIRE COUNCIL**
Contact
Address : 59 Binnia St,
 COOLAH NSW
Telephone : +61 02 6849 2000
Project : —
Order number : —
C-O-C number : —
Sampler
Site : —
Quote number : WN Blanket Quote
No. of samples received : 4
No. of samples analysed : 4

Page : 1 of 4
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 : 31-Jan-2019 09:55
Date Analysis Commenced : 31-Jan-2019
Issue Date : 12-Feb-2019 10:18



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. 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>
Gregory Towers	Technical Officer	Chemistry, Newcastle West, NSW
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Neil Martin	Team Leader - Chemistry	Chemistry, Newcastle West, NSW



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Final Effluent Coolah	Final Effluent Dunedoo	---	---	---
Client sampling date / time				30-Jan-2019 13:30	30-Jan-2019 11:10	---	---	---	
Compound	CAS Number	LOR	Unit	WN1900691-001	WN1900691-002	---	---	---	
				Result	Result	---	---	---	
EA005: pH									
pH Value	---	0.01	pH Unit	9.66	9.29	---	---	---	
EA010: Conductivity									
Electrical Conductivity @ 25°C	---	10	µS/cm	1160	1750	---	---	---	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	---	5	mg/L	130	19	---	---	---	
EK059A: Nitrite and Nitrate as N (NOx)									
Nitrite + Nitrate as N	---	0.05	mg/L	<0.05	<0.05	---	---	---	
EK061A: Total Kjeldahl Nitrogen as N									
Total Kjeldahl Nitrogen as N	---	0.2	mg/L	12.4	2.2	---	---	---	
EK062A: Total Nitrogen as N									
Total Nitrogen as N	---	0.1	mg/L	12.4	2.2	---	---	---	
EK067A: Total Phosphorus as P									
Total Phosphorus as P	---	0.05	mg/L	1.40	0.90	---	---	---	
EP021: Total Oil and Grease									
Total Oil and Grease	---	2	mg/L	<2	<2	---	---	---	
EP030.WN: Biochemical Oxygen Demand (BOD)									
Biochemical Oxygen Demand	---	2	mg/L	15	7	---	---	---	