

CERTIFICATE OF ANALYSIS

Work Order : **EW1904719**
Client : **MERRY BEACH CARAVAN PARK**
Contact : **MANAGER (REPORTS AND INVOICES)**
Address : **Merry Beach Rd**
Kioloa NSW 2539

Telephone : ----
Project : **Merry Beach Monitoring - November**
Order number : **P1806838**
C-O-C number : ----
Sampler : ----
Site : **Merry Beach**
Quote number : **WO/010/16**
No. of samples received : **6**
No. of samples analysed : **5**

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Laboratory : **Environmental Division NSW South Coast**
Contact : **Glenn Davies**
Address : **1/19 Ralph Black Dr, North Wollongong 2500**
4/13 Geary Pl, North Nowra 2541
Australia NSW Australia
Telephone : **+61 2 4225 3125**
Date Samples Received : **05-Nov-2019 16:54**
Date Analysis Commenced : **06-Nov-2019**
Issue Date : **18-Nov-2019 16:25**



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>
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Clare Kennedy	Analyst	Inorganics, Fyshwick, ACT
Tony DeSouza	Senior Microbiologist	Sydney Microbiology, Smithfield, 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 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.

- MF = membrane filtration
- CFU = colony forming unit
- 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.
- MW023 is ALS's internal code and is equivalent to AS4276.9.
- MW006 is ALS's internal code and is equivalent to AS4276.7.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Client sample ID			884/Eff1	884/Eff2	884/SW2	884/SW3	Influent
Client sampling date / time					05-Nov-2019 09:30	05-Nov-2019 10:30	05-Nov-2019 10:05	05-Nov-2019 09:35	05-Nov-2019 09:35
Compound	CAS Number	LOR	Unit	EW1904719-001	EW1904719-002	EW1904719-004	EW1904719-005	EW1904719-006	
				Result	Result	Result	Result	Result	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	8.03	8.12	7.20	7.94	7.96	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	----	----	1570	2660	----	
EA025: Suspended Solids									
Suspended Solids (SS)	----	5	mg/L	----	<5	----	----	----	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	9	----	----	----	3040	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.02	----	0.24	0.01	8.08	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	15.2	----	<0.01	<0.01	6.32	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	6.2	----	0.8	0.9	155	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L	21.4	----	----	----	161	
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L	8.09	----	0.14	0.49	95.4	
EP030: Biochemical Oxygen Demand (BOD)									
Biochemical Oxygen Demand	----	2	mg/L	3	----	5	4	94	
MW006: Faecal Coliforms & E.coli by MF									
Faecal Coliforms	----	1	CFU/100mL	1600	----	5000	800	100000	
<i>Escherichia coli</i>	----	1	CFU/100mL	----	1200	----	----	100000	
MW023: Enterococci by Membrane Filtration									
Enterococci	----	1	CFU/100mL	----	----	1400	96	----	
EP020CA: Oil and Grease									
Oil and Grease	----	1	mg/L	<1	----	----	----	<1	