

## **CERTIFICATE OF ANALYSIS**

Work Order	EW2001314	Page	: 1 of 3			
Client	: MERRY BEACH CARAVAN PARK	Laboratory	: Environmental Division N	NSW South Coast		
Contact	: David Jansen	Contact	: Glenn Davies			
Address	: Merry Beach Rd	Address	: 1/19 Ralph Black Dr, Nor	rth Wollongong 2500		
	Kioloa NSW 2539		4/13 Geary PI, North Nowra 2541 Australia NSW Australia			
Telephone	:	Telephone	: +61 2 4225 3125			
Project	: Merry Beach Monitoring	Date Samples Received	: 10-Mar-2020 15:48	awillin.		
Order number	: P0501061	Date Analysis Commenced	: 11-Mar-2020			
C-O-C number	:	Issue Date	: 02-Apr-2020 08:47		NATA	
Sampler	:			Hac-MRA	NATA	
Site	: Merry Beach					
Quote number	: WO/010/16			and and a second second	Accreditation No. 825	
No. of samples received	: 3			Accred	ited for compliance with	
No. of samples analysed	: 3				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.

Signatories	Position	Accreditation Category
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Clare Kennedy	Analyst	Inorganics, Fyshwick, ACT
Vyoma Tailor	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.
- Analytical work for this work order will be conducted at ALS Sydney.
- MF = membrane filtration
- CFU = colony forming unit
- Membrane filtration results for MW006 no.1 are reported as an estimate (~) due to the presence of many non-target organism colonies that may have inhibited the growth of the target organisms on the filter membrane. It may be informative to record this fact.
- 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 AS4276.7.



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Clie	ent sample ID	884/Eff1	884/Eff2	Influent	 
	Client sampling date / time			10-Mar-2020 10:30	10-Mar-2020 10:50	10-Mar-2020 10:40	 
Compound	CAS Number	LOR	Unit	EW2001314-001	EW2001314-002	EW2001314-003	 
				Result	Result	Result	 
EA005P: pH by PC Titrator							
pH Value		0.01	pH Unit	7.88	8.28	7.68	 
EA025: Suspended Solids							
Suspended Solids (SS)		5	mg/L		11		 
EA025: Total Suspended Solids drie	ed at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	38		2130	 
EK055G: Ammonia as N by Discrete	e Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	0.13		9.30	 
EK059G: Nitrite plus Nitrate as N (N	Ox) by Discrete Anal	yser					
Nitrite + Nitrate as N		0.01	mg/L	20.0		7.15	 
EK061G: Total Kjeldahl Nitrogen By	Discrete Analyser						
Total Kjeldahl Nitrogen as N		0.1	mg/L	4.9		174	 
EK062G: Total Nitrogen as N (TKN +	⊦ NOx) by Discrete An	alyser					
^ Total Nitrogen as N		0.1	mg/L	24.9		181	 
EK067G: Total Phosphorus as P by	Discrete Analyser						
Total Phosphorus as P		0.01	mg/L	4.35		93.7	 
EP030: Biochemical Oxygen Deman	nd (BOD)						
Biochemical Oxygen Demand		2	mg/L	<2		155	 
MW006: Faecal Coliforms & E.coli b	v MF						
Faecal Coliforms		1	CFU/100mL	~50		9500	 
Escherichia coli		1	CFU/100mL		<1	9500	 
EP020CA: Oil and Grease							
Oil and Grease		1	mg/L	<1		<1	 