

# **CERTIFICATE OF ANALYSIS**

Work Order : EW2205971

: Ingenia Holidays Merry Beach

Contact : Gray Taylor

Address : Merry Beach Road,

Kioloa 2539

Telephone : 02 9476 9999

Project : Merry Beach Monitoring - January 2022

Order number : P2108127

C-O-C number : ----

Client

Sampler : Client - Peter Young

Site : Merry Beach

Quote number : ---No. of samples received : 3
No. of samples analysed : 3

Page : 1 of 3

Laboratory : Environmental Division NSW South Coast

Contact : Glenn Davies

Address : 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia

Telephone : +61 2 4225 3125

Date Samples Received : 21-Dec-2022 17:00

Date Analysis Commenced : 22-Dec-2022

Issue Date : 29-Dec-2022 19:20



ALC. This is a second second

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

Clare Kennedy Analyst Inorganics, Fyshwick, ACT

Vyoma TailorMicrobiologistSydney Microbiology, Smithfield, NSWWisam MarassaInorganics CoordinatorSydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : EW2205971

Client : Ingenia Holidays Merry Beach
Project : Merry Beach Monitoring - January 2022



#### **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.
- Analytical work for this work order will be conducted at ALS Sydney.
- MF = membrane filtration
- CFU = colony forming unit
- MW006 is ALS's internal code and is equivalent to AS4276.5.
- 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.

Page : 3 of 3 Work Order : EW2205971

Client : Ingenia Holidays Merry Beach
Project : Merry Beach Monitoring - January 2022



# Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	884/Eff1	884/Eff2	Influent		
Sampling date / time				21-Dec-2022 00:00	21-Dec-2022 00:00	21-Dec-2022 00:00		
Compound	CAS Number	LOR	Unit	EW2205971-001	EW2205971-002	EW2205971-012		
				Result	Result	Result		
EA005P: pH by PC Titrator								
pH Value		0.01	pH Unit	7.48	7.70	8.40		
EA025: Total Suspended Solids dried a	t 104 ± 2°C							
Suspended Solids (SS)		5	mg/L	19	17	118		
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	0.29		102		
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N		0.01	mg/L	18.5		0.04		
EK061G: Total Kjeldahl Nitrogen By Dis	screte Analyser							
Total Kjeldahl Nitrogen as N		0.1	mg/L	3.3		114		
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N		0.1	mg/L	21.8		114		
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P		0.01	mg/L	3.36		14.6		
EP030: Biochemical Oxygen Demand (I	BOD)							
Biochemical Oxygen Demand		2	mg/L	12		217		
MW006: Faecal Coliforms & E.coli by M	ıF.							
Faecal Coliforms		1	CFU/100mL	<1		92000000		
Escherichia coli		1	CFU/100mL		<1	87000000		
EP020CA: Oil and Grease								
Oil and Grease		1	mg/L	<1		8		

### Inter-Laboratory Testing

Analysis conducted by ALS Canberra, NATA accreditation no. 992.

(WATER) EP020CA: Oil and Grease

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(WATER) EA005P: pH by PC Titrator

(WATER) EP030: Biochemical Oxygen Demand (BOD) (WATER) EK055G: Ammonia as N by Discrete Analyser

(WATER) MW006: Faecal Coliforms & E.coli by MF  $\,$ 

(WATER) EK067G: Total Phosphorus as P by Discrete Analyser

(WATER) EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser

(WATER) EK061G: Total Kjeldahl Nitrogen By Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EA025: Total Suspended Solids dried at 104 ± 2°C