



## CERTIFICATE OF ANALYSIS

Work Order	: ES2417175	Page	: 1 of 2
Client	: Department of Climate Change, Energy, the Environment and Water	Laboratory	: Environmental Division Sydney
Contact	: [REDACTED]	Contact	: Customer Services ES
Address	: [REDACTED]	Address	: [REDACTED]
Telephone	: ----	Telephone	: [REDACTED]
Project	: Darling Baake River Health Program	Date Samples Received	: 24-May-2024 14:30
Order number	: ----	Date Analysis Commenced	: 27-May-2024
C-O-C number	: ----	Issue Date	: 28-May-2024 17:57
Sampler	: ----		
Site	: ----		
Quote number	: ES24DEPENWAT0001		
No. of samples received	: 2		
No. of samples analysed	: 2		



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, 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
[REDACTED]	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW

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### 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.

- Unable to conduct filtered metal analysis as filtered bottle was not received.

### Analytical Results

Sub-Matrix: WATER  
 (Matrix: WATER)

				Sample ID		DBRH-Z-20	DBRH-Z-29	----	----	----
				Sampling date / time		21-May-2024 00:00	20-May-2024 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2417175-001	ES2417175-002	-----	-----	-----	-----	-----
				Result	Result	---	---	---	---	---
<b>EG020T: Total Metals by ICP-MS</b>										
Aluminium	7429-90-5	0.01	mg/L	1.27	4.63	----	----	----	----	----
Arsenic	7440-38-2	0.001	mg/L	0.004	0.006	----	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	----	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	0.001	0.004	----	----	----	----	----
Copper	7440-50-8	0.001	mg/L	0.002	0.003	----	----	----	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	0.001	----	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	0.003	0.005	----	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	----	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	0.009	0.015	----	----	----	----	----
Manganese	7439-96-5	0.001	mg/L	0.130	0.068	----	----	----	----	----
Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	----	----	----	----	----
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	----	----	----	----	----