



CERTIFICATE OF ANALYSIS

Work Order	: ES2413656	Page	: 1 of 8
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	: [REDACTED]	Telephone	: [REDACTED]
Project	: Darling Baaka River Health Program	Date Samples Received	: 26-Apr-2024 16:53
Order number	: [REDACTED]	Date Analysis Commenced	: 01-May-2024
C-O-C number	: [REDACTED]	Issue Date	: 01-May-2024 14:04
Sampler	: [REDACTED]		
Site	: [REDACTED]		
Quote number	: ES24DEPENWAT0001		
No. of samples received	: 41		
No. of samples analysed	: 27		



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.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	E1 Trip-25	E2 Trip-24	E2 Trip-25	E3 Trip-25	E4-Dup_Trip-25 Received as E4 Dup
Sampling date / time				17-Apr-2024 00:00	17-Apr-2024 00:00	17-Apr-2024 00:00	17-Apr-2024 00:00	17-Apr-2024 00:00
Compound	CAS Number	LOR	Unit	ES2413656-001	ES2413656-002	ES2413656-003	ES2413656-004	ES2413656-005
				Result	Result	Result	Result	Result
EP002: Dissolved Organic Carbon (DOC)								
Dissolved Organic Carbon	----	1	mg/L	11	11	12	11	11

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	E5 Trip-25	MFK-Z-E7_20240325	E8_Trip-24	E9_Trip-24	E10_Trip-24
Sampling date / time					17-Apr-2024 00:00	25-Mar-2024 00:00	17-Apr-2024 00:00	17-Apr-2024 00:00	17-Apr-2024 00:00
Compound	CAS Number	LOR	Unit	ES2413656-006	ES2413656-008	ES2413656-010	ES2413656-012	ES2413656-013	
				Result	Result	Result	Result	Result	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	---	1	mg/L	13	13	11	12	12	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MFK-Z-E11_20240325	E12_Trip-24	MFK-Z-E14_20240325	MFK-Z-E15_20240325	E1C_Trip-24
Sampling date / time					17-Apr-2024 00:00	22-Apr-2024 00:00	25-Mar-2024 00:00	25-Mar-2024 00:00	25-Mar-2024 00:00
Compound	CAS Number	LOR	Unit	ES2413656-015	ES2413656-018	ES2413656-020	ES2413656-023	ES2413656-024	
				Result	Result	Result	Result	Result	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	---	1	mg/L	10	7	12	13	8	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	E3C_Trip-24	E4C_Trip-24	E13C_Trip-24	B3C_Trip-24	B2_Trip-24
Sampling date / time					25-Mar-2024 00:00	25-Mar-2024 00:00	25-Mar-2024 00:00	25-Mar-2024 00:00	25-Mar-2024 00:00
Compound	CAS Number	LOR	Unit	ES2413656-025	ES2413656-026	ES2413656-027	ES2413656-028	ES2413656-029	
				Result	Result	Result	Result	Result	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	---	1	mg/L	7	7	12	14	11	

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MFK-Z-B4_20240325	B2_Trip-25	Wetherell buoy Trip25	Smart Buoy Menindee Upper Trip-25	Wilcannia Trip-25 Received as Wilcannia Buoy Trip 25
Sampling date / time					25-Mar-2024 00:00	17-Apr-2024 00:00	15-Apr-2024 00:00	15-Apr-2024 00:00	18-Apr-2024 00:00
Compound	CAS Number	LOR	Unit		ES2413656-030	ES2413656-031	ES2413656-032	ES2413656-033	ES2413656-034
					Result	Result	Result	Result	Result
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	---	1	mg/L		12	12	9	11	10



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	FB_Trip-25	BLNK_Trip-25 Received as Trip Blank Trip 25	---	---	---
				Sampling date / time	17-Apr-2024 00:00	18-Apr-2024 00:00	---	---	---
Compound	CAS Number	LOR	Unit		ES2413656-035	ES2413656-036	-----	-----	-----
					Result	Result	---	---	---
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	---	1	mg/L		<1	<1	---	---	---