



CERTIFICATE OF ANALYSIS

Work Order : **ES2420858**

Client : [REDACTED]
Contact : [REDACTED]
Address : [REDACTED]

Telephone : [REDACTED]
Project : [REDACTED]
Order number : -
C-O-C number : [REDACTED]
Sampler : [REDACTED]
Site : [REDACTED]
Quote number : [REDACTED]
No. of samples received : 11
No. of samples analysed : 11

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Laboratory : Environmental Division Sydney
Contact : Customer Services ES
Address : [REDACTED]
Telephone : [REDACTED]
Date Samples Received : 25-Jun-2024 11:40
Date Analysis Commenced : 25-Jun-2024
Issue Date : 03-Jul-2024 14:28



Accreditation No. 925
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



Analytical Results

Sub-Matrix: WATER				Sample ID		Site 27	Site 28
(Matrix: WATER)						18-Jun-2024 00:00	18-Jun-2024 00:00
Sampling date / time						ES2420858-008	ES2420858-009
Compound	CAS Number	LOR	Unit			Result	Result
ED037P: Alkalinity by PC Titrator							
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L			<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L			<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L			240	241
Total Alkalinity as CaCO3	----	1	mg/L			240	241
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA							
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L			17	62
ED045G: Chloride by Discrete Analyser							
Chloride	16887-00-6	1	mg/L			44	45
ED093F: Dissolved Major Cations							
Calcium	7440-70-2	1	mg/L			41	41
Magnesium	7439-95-4	1	mg/L			20	21
Sodium	7440-23-5	1	mg/L			64	66
Potassium	7440-09-7	1	mg/L			16	16
EG020F: Dissolved Metals by ICP-MS							
Aluminium	7429-90-5	0.01	mg/L			<0.01	<0.01
Arsenic	7440-38-2	0.001	mg/L			0.004	0.005
Barium	7440-39-3	0.001	mg/L			0.121	0.120
Cadmium	7440-43-9	0.0001	mg/L			<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L			<0.001	<0.001
Cobalt	7440-48-4	0.001	mg/L			<0.001	<0.001
Copper	7440-50-8	0.001	mg/L			0.001	0.002
Lead	7439-92-1	0.001	mg/L			<0.001	<0.001
Manganese	7439-96-5	0.001	mg/L			0.002	<0.001
Zinc	7440-66-6	0.005	mg/L			<0.005	<0.005
Iron	7439-89-6	0.05	mg/L			<0.05	<0.05
EG051G: Ferrous Iron by Discrete Analyser							
Ferrous Iron	----	0.05	mg/L			<0.05	<0.05

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Analytical Results

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(Matrix: WATER)				Sampling date / time	18-Jun-2024 00:00	18-Jun-2024 00:00
Compound	CAS Number	LOR	Unit	ES2420858-008	ES2420858-009	
				Result	Result	
EK055G: Ammonia as N by Discrete Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	0.03	0.05	
EK057G: Nitrite as N by Discrete Analyser						
Nitrite as N	14797-65-0	0.01	mg/L	0.04	<0.01	
EK058G: Nitrate as N by Discrete Analyser						
Nitrate as N	14797-55-8	0.01	mg/L	0.08	0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser						
Nitrite + Nitrate as N	----	0.01	mg/L	0.12	0.01	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser						
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.6	1.5	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser						
Total Nitrogen as N	----	0.1	mg/L	1.7	1.5	
EK067G: Total Phosphorus as P by Discrete Analyser						
Total Phosphorus as P	----	0.01	mg/L	0.31	0.28	
EK071G: Reactive Phosphorus as P by discrete analyser						
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.06	0.02	
EN055: Ionic Balance						
Total Anions	----	0.01	meq/L	6.39	7.38	
Total Cations	----	0.01	meq/L	6.88	7.05	
Ionic Balance	----	0.01	%	3.73	2.22	
EP002: Dissolved Organic Carbon (DOC)						
Dissolved Organic Carbon	----	1	mg/L	13	14	