



**ALS AIRBORNE DUST AND WATER
ANALYSIS AND TESTING REPORT**

REPORT TO: Walker Quarries

REPORT ON: Walker Quarries
Groundwater Sample
Sep-22

REPORT NO: 2400-7253-04

SAMPLED BY: L. Pyne

REPORTED BY: T.MacPhee

REPORT DATE: 26/09/2022



Accreditation # 15784
Site # 11436

Adriana Hernandez
Environmental Project/Quality Officer– Lithgow NSW

Accredited for compliance with ISO/IEC 17025.

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ANALYSIS AND TESTING REPORT



WALKER QUARRY

	Units			
Date of Sample		9/09/2022 - 12/09/2022		
REPORT NO:		2400-7253-04		
ALS Sydney Report No.		ES2232778		
Site Reference		GW1	GW2	GW3
Sampled by		L. Pyne		
General Comments/ Observations		Slightly cloudy	Clear	Slightly cloudy
Standing Water Level	m	76.22	26.32	18.94
Total Volume Purged	L	3.00	3.0	3.0
pH	pH Unit	6.0	6.5	6.0
Electrical Conductivity	µS/cm	211	476	205
Alkalinity by PC Titrator				
Hydroxide Alkalinity as CaCO ₃	mg/L	<1	<1	<1
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1
Bicarbonate Alkalinity as CaCO ₃	mg/L	100	249	104
Total Alkalinity as CaCO ₃	mg/L	100	249	104
Sulfate (Turbidimetric) as SO₄				
Sulfate as SO ₄ - Turbidimetric	mg/L	7	16	8
Chloride by Discrete Analyser				
Chloride	mg/L	5	7	4
Dissolved Major Cations				
Calcium	mg/L	18	85	18
Magnesium	mg/L	5	4	4
Sodium	mg/L	20	16	19
Potassium	mg/L	1	4	2

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WALKER QUARRY

	Units			
Date of Sample		19/08/2021		
REPORT NO:		2400-7253-04		
ALS Sydney Report No.		ES2232778		
Site Reference		GW1	GW2	GW3
Sampled by		L. Pyne		
Dissolved Metals by ICP-MS				
Arsenic	mg/L	<0.001	0.001	<0.001
Cadmium	mg/L	0.0003	<0.0001	0.0
Chromium	mg/L	<0.001	0.002	<0.001
Copper	mg/L	0.005	0.016	0.005
Lead	mg/L	<0.001	<0.001	<0.001
Nickel	mg/L	0.010	0.016	0.010
Zinc	mg/L	0.156	0.689	0.157
Dissolved Mercury by FIMS				
Mercury	mg/L	<0.0001	<0.0001	<0.0001
Ionic Balance				
Total Anions	meq/L	2.28	5.50	2.36
Total Cations	meq/L	2.20	5.37	2.1
Ionic Balance	%	----	1.26	----

ALS ANALYSIS AND TESTING REPORT



METHODS OF ANALYSIS

Tests for results issued in this report have been carried out at the following NATA accredited laboratories in accordance with the methods as detailed below:-

TEST	METHOD	ACIRL Lithgow NATA Accreditation #11436	Measure of Uncertainty
Electrical Conductivity uS/cm	CBM-E006	APHA 2510 B	2.0%
pH value	CBM-E005	APHA 4500 H	0.10 pH Units

In accordance with "Standard Methods for the Examination of Water & Wastewater" APHA, AWWA, and Water & Wastewater Examination Manual (V. Dean Adams)

Preservation procedures in accordance with AS/NZS 5667/1 when sampled by ACIRL staff unless otherwise stated.

The remaining analysis performed at ALS Environmental, 277-289 Woodpark Rd, Smithfield, NSW 2164.

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