

RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 8/10/2024. Lab Job No. R9808.

Samples submitted by Water Results. Your Job: RVC Raw & Finished Weekly

Locked Bag 10 CASINO NSW 2470

Parameter	Methods reference	Sample 1	Sample 2
		RVC Finished 08/10/24	RVC Raw 08/10/24
	<i>Job No.</i>	<i>R9808/1</i>	<i>R9808/2</i>
pH	APHA 4500-H ⁺ -B	7.24	7.67
Conductivity (EC) (dS/m)	APHA 2510-B	0.338	0.262
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	230	178
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	<1	36
Turbidity (NTU)	APHA 2130	4.1	36
True Colour (Pt-Co)	** APHA 2120	16	34
Apparent Colour (Pt-Co)	** APHA 2120	19	272
Bicarbonate (Alkalinity) (mg/L CaCO ₃ equivalent)	** Bicarbonate Alkalinity - APHA 2320	78	84
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	81	80
Total Coliforms (cfu/100 ml)	APHA 9222-B	1	2,680
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	70
Total Plate Count (cfu/1 ml)	** Inhouse	20	235
Total Organic Carbon (mg/L)	APHA 5310-B	1.50	3.70
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.015	0.534
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	<0.005	1.00
Manganese (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.003	0.128
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.013	0.061
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	<0.005	0.110
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.002	0.007
Calcium (mg/L)	APHA 3125 ICPMS ^{note 1&2}	17.5	16.9
Magnesium (mg/L)	APHA 3125 ICPMS ^{note 1&2}	9.16	9.15

Notes:

- Total metals - samples digested with nitric acid; Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2;
Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
- ** NATA accreditation does not cover the performance of this service.
- ... Denotes not requested.
- This report is not to be reproduced except in full.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
- Results relate only to the samples tested.
- This report was re-issued on 31/10/2024 and replaces the report issued on 25/10/2024. Turbidity and Alkalinity data added.

