

RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 24/09/2024. Lab Job No. R9282.
 Samples submitted by Water Results. Your Job: RVC Raw & Finished Weekly - 24/09/24
 Locked Bag 10 CASINO NSW 2470

Parameter	Methods reference	Sample 1	Sample 2
		RVC Finished	RVC Raw
	Job No.	R9282/1	R9282/2
pH	APHA 4500-H ⁺ -B	7.16	7.65
Conductivity (EC) (dS/m)	APHA 2510-B	0.313	0.305
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	213	207
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	<1	12
Turbidity (NTU)	APHA 2130	0.110	12.9
True Colour (Pt-Co)	** APHA 2120	<1	6
Apparent Colour (Pt-Co)	** APHA 2120	<1	124
Bicarbonate (Alkalinity) (mg/L CaCO ₃ equivalent)	** Bicarbonate Alkalinity - APHA 2320	117	140
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	132	125
Total Coliforms (cfu/100 ml)	APHA 9222-B	<1	2,880
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	11
Total Plate Count (cfu/1 ml)	** Inhouse	12	..
Total Organic Carbon (mg/L)	APHA 5310-B	1.9	2.7
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.060	0.165
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.009	0.385
Manganese (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.001	0.126
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.049	0.011
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	<0.005	0.033
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	<0.001	0.039
Calcium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	27.3	25.8
Magnesium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	15.6	14.6

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.
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- Results relate only to the samples tested.
- This report was issued on 14/10/2024.

