Department of Primary Industries
AgEnviro Labs

DATE OF ISSUE: 21/02/24

REPORT NO: WN240215

NSW GOVERNMENT

Water Analysis Report

REPORT NO:	**WN240215**	**ISSUE DATE:**	**21/02/24**
DATE SAMPLES RECEIVED:	7/02/24	**PURCHASE ORDER:**	
SAMPLES RECEIVED:	2	**COMMENT:**	Results relate only to items tested.

SUBMITTER:	**David Cash**
COMPANY:	Richmond Valley Council
ADDRESS:	Locked Bag 10 CASINO NSW 2470,

METHOD ID	ANALYSIS METHOD
MB402	E.Coli and Total Coliforms in Water
MB407	Heterotrophic Plate Count
W107	EC, pH, Alkalinity & Chloride in water by autotitrator
C806	Calculations **
W112	Turbidity of water
W111	Determination of True and Apparent Colour in Water
W115	Total Suspended Solids and Fixed/Volatile Suspended Solids
W110	Organic Carbon in water
W151	Nitrite Nitrogen by FIA
W153	Oxidised Nitrogen by FIA
W161	Total Phosphorus or Total Dissolved Phosphorus in water
C804	Hardness
M670	Elements and Metals by ICP-AES
M671	Elements and Metals by ICP-MS

REPORT AUTHORISATION

Approved for Release by:

Steven Leahy
Chemist

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ANALYSIS RESULTS				
			1	2
Test Description	**LOR**	**UNITS**	**RVC Finished Water**	**RVC Raw Water**
Date Sampled		Date	07/02/24	07/02/24
Sampled By			CC	RG
Time Sampled		Time	8:30AM	11:00AM
Total coliforms in water	1	MPN/100 mL	<1	4,200
E.Coli in water	1	MPN/100 mL	<1	98
Heterotrophic Plate Count_HPC	2	MPN	248	[NT]
pH		pH units	8.0	7.8
$TDS_{(calc)}$	6	mg/L	250	170
Electrical Conductivity	10	µS/cm	380	250
Alkalinity	14	mg/L $CaCO_3$	120	140
Turbidity	0.07	NTU	0.13	29
Apparent colour	1	CU	[NT]	[NT]
True Colour	1	CU	[NT]	[NT]
Total Suspended Solids	1.0	mg/L	<1.0	27
Total Organic Carbon	0.2	mg/L	2.8	7.3
Dissolved Organic Carbon	0.2	mg/L	2.8	6.6
Nitrite Nitrogen	0.01	mg/L	<0.01	<0.01
Nitrate Nitrogen	0.02	mg/L	0.14	0.085
Total Phosphorus	0.03	mg/L	<0.03	0.15
Hardness	1.0	mg/L $CaCO_3$	83	84
Calcium	0.03	mg/L	17	17
Magnesium	0.006	mg/L	9.7	9.8
Total Aluminium	0.001	mg/L	0.018	1.5
Dissolved Aluminium	0.001	mg/L	0.017	0.075
Total Iron	0.005	mg/L	<0.0050	2.2
Dissolved Iron	0.0001	mg/L	0.0021	0.31
Total Manganese	0.0005	mg/L	0.0021	0.11
Dissolved Manganese	0.0001	mg/L	0.00046	0.022

LABORATORY NOTES

****NATA Accreditation does not cover the performances of this service.**

As requested, testing for THM will be performed by Envirolab, and testing for MIB/Geosmin will be performed by SAS. Results will be forwarded when received by AgEnviro Laboratory.

Unable to analyse colour due to equipment breakdown.

- Analysis is conducted within the date received and the date the report is finalised.
- Results are expressed on an 'as received' basis unless otherwise stated.
- This report should not be reproduced except in full.
- Samples will be retained for 10 working days from the date of the final report and then discarded.
- Clients wishing to recover their samples must contact the laboratory within this period.
- Sample return is at the clients expense.
- Results for elements analysed by ICP are reported in mg/L for ICP-OES and low level analysis in ug/L for ICP-MS