RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 20/08/2024. Lab Job No. R7853.
Samples submitted by Water Results. Your Job: RVC Raw & Finished Monthly

Parameter	Methods reference	Sample 1 RVC Finished 20/08/24	Sample 2 RVC Raw 20/08/24
	Job No.	*R7853/1*	*R7853/2*
pH	APHA 4500-H^+-B	7.32	7.45
Conductivity (EC) (dS/m)	APHA 2510-B	0.309	0.240
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	210	163
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	<1	25
Turbidity (NTU)	APHA 2130	0.370	44.1
True Colour (Pt-Co)	** APHA 2120	3	10
Apparent Colour (Pt-Co)	** APHA 2120	57	337
Bicarbonate (Alkalinity) (mg/L $CaCO_3$ equivalent)	** Bicarbonate Alkalinity - APHA 2320	81	85
Water Hardness (mg/L $CaCO_3$ equivalent)	** Using Ca and Mg calculation	81	81
Total Phosphorus (mg/L P)	In house method W4	0.011	0.197
Nitrate (mg/L N)	APHA 4500 NO_3^--F	0.205	0.191
Nitrite (mg/L N)	APHA 4500 NO_2^--I	<0.005	0.009
Total Coliforms (cfu/100 ml)	APHA 9222-B	<1	10,800
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	330
Total Plate Count (cfu/1 ml)	** Inhouse	<1	..
Total Organic Carbon (mg/L)	APHA 5310-B	2.79	4.86
Dissolved Organic Carbon (mg/L)	APHA 5310-B	2.79	4.70
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS note 1&2	0.022	0.468
Iron (mg/L)	Total Available - APHA 3125 ICPMS note 1&2	<0.005	1.19
Manganese (mg/L)	Total Available - APHA 3125 ICPMS note 1&2	0.003	0.097
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS note 1&2	0.020	0.114
Iron (mg/L)	Dissolved - APHA 3125 ICPMS note 1&2	<0.005	0.235
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS note 1&2	0.002	0.008
Calcium (mg/L)	Dissolved - APHA 3125 ICPMS note 1&2	16.5	16.0
Magnesium (mg/L)	Dissolved - APHA 3125 ICPMS note 1&2	9.62	9.87
Geosim (ng/L)	Subcontracted: ENVIROLAB report PFH1338	..	<1
2-Methylisoborneol (2-MIB) (ng/L)	Subcontracted: ENVIROLAB report PFH1338	..	<1
TRIHALOMETHANES (THM)			
Chloroform (THM) (µg/L)	Subcontracted: SGS report SE 269940	40	..
Bromodichloromethane (THM) (µg/L)	Subcontracted: SGS report SE 269940	7.9	..
Dibromochloromethane (THM) (µg/L)	Subcontracted: SGS report SE 269940	<0.5	..
Bromoform (THM) (µg/L)	Subcontracted: SGS report SE 269940	<0.5	..
Total THM (µg/L)	Subcontracted: SGS report SE 269940	47	..

Notes:

1. 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
2. Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
3. 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
4. For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
5. Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
6. Analysis conducted between sample arrival date and reporting date.
7. ** NATA accreditation does not cover the performance of this service.
8. .. Denotes not requested.
9. This report is not to be reproduced except in full.
10. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
11. Results relate only to the samples tested.
12. This report was issued on 6/09/2024.

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ACCREDITATION
Accreditation No. 14980
Accredited for compliance with ISO/IEC 17025 - Testing

checked: .....
Graham Lancaster
Laboratory Manager