RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 3/09/2024. Lab Job No. R8445.
Samples submitted by Water Results. Your Job: RVC Raw & Finished Monthly

Parameter	Methods reference	Sample 1 RVC Finished	Sample 2 RVC Raw
	Job No.	*R8445/1*	*R8445/2*
pH	APHA 4500-H^+-B	7.19	7.79
Conductivity (EC) (dS/m)	APHA 2510-B	0.350	0.317
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	238	216
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	1	16
Turbidity (NTU)	APHA 2130	0.380	17.4
True Colour (Pt-Co)	** APHA 2120	1	16
Apparent Colour (Pt-Co)	** APHA 2120	3	124
Total Alkalinity (mg/L $CaCO_3$ equivalent)	** Total Alkalinity - APHA 2320	107	127
Water Hardness (mg/L $CaCO_3$ equivalent)	** Using Ca and Mg calculation	114	116
Total Phosphorus (mg/L P)	In house method W4	0.011	0.131
Nitrate (mg/L N)	APHA 4500 NO_3^--F	0.091	0.051
Nitrite (mg/L N)	APHA 4500 NO_2^--I	<0.005	<0.005
Total Coliforms (cfu/100 ml)	APHA 9222-B	<1	3,580
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	35
Total Plate Count (cfu/1 ml)	** Inhouse	<1	..
Total Organic Carbon (mg/L)	APHA 5310-B	1.63	2.75
Dissolved Organic Carbon (mg/L)	APHA 5310-B	1.63	2.75
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	0.033	0.249
Iron (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	<0.005	0.444
Manganese (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	0.001	0.136
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.030	0.011
Iron (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	<0.005	0.062
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	<0.001	0.092
Calcium (mg/L)	APHA 3125 ICPMS*note 1&2	25.0	25.0
Magnesium (mg/L)	APHA 3125 ICPMS*note 1&2	14.5	14.6
Geosmin ng/L	Subcontracted ENVIROLAB report PFI0329	..	<1
2-Methylisoborneol (2-MIB) ng/L	Subcontracted ENVIROLAB report PFI0329	..	<1
TRIHALOMETHANES (THM)			
Chloroform (THM) (µg/L)	Subcontracted: SGS report SE 270561	9.4	..
Bromodichloromethane (THM) (µg/L)	Subcontracted: SGS report SE 270561	5.8	..
Dibromochloromethane (THM) (µg/L)	Subcontracted: SGS report SE 270561	3.5	..
Bromoform (THM) (µg/L)	Subcontracted: SGS report SE 270561	<0.5	..
Total THM (µg/L)	Subcontracted: SGS report SE 270561	19	..

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.
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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 25/09/2024.

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Graham Lancaster
Laboratory Manager