

**RESULTS OF WATER ANALYSIS**

2 samples supplied by Richmond Valley Council on 2/6/2024, Lab Job No. R6073.  
 Samples submitted by Alison Heathorn, Your Job: RVC Raw & Finished Quarterly  
 Listed Reg 10 CALDAS/NSW 2415

Parameter	Methods reference	Sample 1	Sample 2
		RVC Finished	RVC Raw
Job No.		R60731	R60732
pH	APHA 4500-H-B	7.40	7.87
Conductivity (EC) (dS/m)	APHA 2510-B	0.311	0.308
Total Dissolved Solids (mg/L)	** Calculation using EC x 680	211	209
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	<1	21
Turbidity (NTU)	APHA 2130	0.21	21.3
True Colour (Pt-Co)	** APHA 2120	<5	13
Apparent Colour (Pt-Co)	** APHA 2120	<5	121
Bicarbonate (Alkalinity) (mg/L CaCO <sub>3</sub> equivalent)	** Bicarbonate Alkalinity - APHA 2320	120	134
Water Hardness (mg/L CaCO <sub>3</sub> equivalent)	** Using Ca and Mg calculation	124	126
Total Phosphorus (mg/L P)	In house method W4	0.014	0.105
Nitrate (mg/L N)	APHA 4500 NO <sub>3</sub> -F	0.033	0.019
Nitrite (mg/L N)	APHA 4500 NO <sub>2</sub> -I	<0.005	0.007
Total Coliforms (cfu/100 ml)	APHA 9222-B	<1	156
E.Coli (cfu/100 ml)	ColBlue Membrane Filtration	<1	68
Total Plate Count (cfu/1 ml)	** Inhouse	<1	..
Total Organic Carbon (mg/L)	** APHA 8310-B	1.24	2.25
Dissolved Organic Carbon (mg/L)	** APHA 8310-B	1.16	2.25
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS <sup>TM</sup> 162	0.043	0.392
Iron (mg/L)	Total Available - APHA 3125 ICPMS <sup>TM</sup> 162	<0.005	0.924
Manganese (mg/L)	Total Available - APHA 3125 ICPMS <sup>TM</sup> 162	<0.001	0.109
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS <sup>TM</sup> 162	0.040	0.007
Iron (mg/L)	Dissolved - APHA 3125 ICPMS <sup>TM</sup> 162	<0.005	0.030
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS <sup>TM</sup> 162	<0.001	0.048
Calcium (mg/L)	Dissolved - APHA 3125 ICPMS <sup>TM</sup> 162	25.1	25.8
Magnesium (mg/L)	Dissolved - APHA 3125 ICPMS <sup>TM</sup> 162	14.8	14.9
<b>Pesticide analysis screen<sup>TM</sup> 1600</b>			
Hexachlorobenzene (HCB) (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Alpha BHC (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Lindane (gamma BHC) (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Heptachlor (µg/L)	Subcontracted SGS report SE 267889	..	<0.02
Aldrin (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Beta BHC (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Delta BHC (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Heptachlor epoxide (µg/L)	Subcontracted SGS report SE 267889	..	<0.02
Alpha Endosulfan (µg/L)	Subcontracted SGS report SE 267889	..	<0.02
Gamma Chlordane (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Alpha Chlordane (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
p,p'-DDE (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Dieldrin (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Endrin (µg/L)	Subcontracted SGS report SE 267889	..	<0.02
Beta Endosulfan (µg/L)	Subcontracted SGS report SE 267889	..	<0.02
p,p'-DDD (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
p,p'-DDT (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Endosulfan sulphate (µg/L)	Subcontracted SGS report SE 267889	..	<0.02
Endrin Aldehyde (µg/L)	Subcontracted SGS report SE 267889	..	<0.02
Methoxychlor (µg/L)	Subcontracted SGS report SE 267889	..	<0.1
Endrin Ketone (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Isoflin (µg/L)	Subcontracted SGS report SE 267889	..	<0.02
Mirex (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Orychlorane (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Total OC (µg/L)	Subcontracted SGS report SE 267889	..	<1
Dichlorvos (µg/L)	Subcontracted SGS report SE 267889	..	<0.5
Dimebuthane (µg/L)	Subcontracted SGS report SE 267889	..	<0.15
Diazinon (Dimethyl) (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Fenitrothion (µg/L)	Subcontracted SGS report SE 267889	..	<0.2
Malathion (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Chlorpyrifos (Chlorpyrifos Ethyl) (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Parathion-ethyl (Parathion) (µg/L)	Subcontracted SGS report SE 267889	..	<0.01
Bromophos Ethyl (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Methidathion (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Eninon (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Azinphos-methyl (Duthion) (µg/L)	Subcontracted SGS report SE 267889	..	<0.05
Dichlorodifluoromethane (CFC-12) (µg/L)	Subcontracted SGS report SE 267889	<5	..
Chloromethane (µg/L)	Subcontracted SGS report SE 267889	<5	..
Vinyl chloride (Chloroethene) (µg/L)	Subcontracted SGS report SE 267889	0.5	..
Chloroethane (µg/L)	Subcontracted SGS report SE 267889	<5	..
Trichlorofluoromethane (µg/L)	Subcontracted SGS report SE 267889	<1	..
1,1-dichloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Dichloromethane (Methylene chloride) (µg/L)	Subcontracted SGS report SE 267889	42	..
Alyl chloride (µg/L)	Subcontracted SGS report SE 267889	<2	..
trans-1,2-dichloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,1-dichloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
cis-1,2-dichloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Bromochloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Chloroform (THM) (µg/L)	Subcontracted SGS report SE 267889	5.1	..
2,2-dichloropropane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,2-dichloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,1,1-trichloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,1-dichloropropane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Carbon tetrachloride (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Dibromomethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,2-dichloropropane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Trichloroethane (Trichloroethylene,TCE) (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Bromodichloromethane (THM) (µg/L)	Subcontracted SGS report SE 267889	6.0	..
cis-1,3-dichloropropane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
trans-1,3-dichloropropane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,1,2-trichloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,3-dichloropropane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Dibromochloromethane (THM) (µg/L)	Subcontracted SGS report SE 267889	6.3	..
1,2-dibromoethane (ED) (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Tetrachloroethane (Perchloroethylene,PCE) (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,1,1,2-tetrachloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Chlorobenzene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Bromodene (THM) (µg/L)	Subcontracted SGS report SE 267889	0.8	..
1,1,2,2-tetrachloroethane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,2,3-trichloropropane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
trans-1,4-dichloro-2-butene (µg/L)	Subcontracted SGS report SE 267889	<1	..
Bromobenzene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
2-chlorotoluene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
4-chlorotoluene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,3-dichlorobenzene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,4-dichlorobenzene (µg/L)	Subcontracted SGS report SE 267889	<0.3	..
1,2-dichlorobenzene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,3-dibromo-3-chloropropane (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,2,4-trichlorobenzene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Hexachlorobenzene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
1,2,3-trichlorobenzene (µg/L)	Subcontracted SGS report SE 267889	<0.5	..
Iodomethane (µg/L)	Subcontracted SGS report SE 267889	<5	..
Total Chlorinated Hydrocarbons (µg/L)	Subcontracted SGS report SE 267889	60	..
Geosmin (µg/L)	Subcontracted ENVIROLAB report PFG1173	..	<1
2-Methylisoborneol (2-MIB) (µg/L)	Subcontracted ENVIROLAB report PFG1173	..	<1

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 µg/g (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](http://scu.edu.au/eal) or on request).  
 11. Results relate only to the samples tested.  
 12. This report was issued on 16/08/2024.

