

RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 1/10/2024. Lab Job No. R9569.
 Samples submitted by Water Results. Your Job: RVC Raw & Finished Quarterly
 Locked Bag 10 CASINO NSW 2470

Parameter	Methods reference	Sample 1	Sample 2
		RVC Finished	RVC Raw
	Job No.	R9569/1	R9569/2
pH	APHA 4500-H ⁺ -B	6.94	7.10
Conductivity (EC) (dS/m)	APHA 2510-B	0.263	0.138
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	179	94
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	<1	103
Turbidity (NTU)	APHA 2130	<1	115
True Colour (Pt-Co)	** APHA 2120	6	78
Apparent Colour (Pt-Co)	** APHA 2120	19	1,190
Bicarbonate (Alkalinity) (mg/L CaCO ₃ equivalent)	** Bicarbonate Alkalinity - APHA 2320	53	52
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	48	48
Total Phosphorus (mg/L P)	In house method W4	<0.01	0.345
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	0.375	0.351
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	<0.005	0.021
Total Coliforms (cfu/100 ml)	APHA 9222-B	<1	50,000
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	<1000
Total Plate Count (cfu/1 ml)	** Inhouse	13	..
Total Organic Carbon (mg/L)	APHA 5310-B	2.58	7.28
Dissolved Organic Carbon (mg/L)	APHA 5310-B	2.58	7.28
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.014	2.77
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	<0.005	2.79
Manganese (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.002	0.123
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.011	0.324
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	<0.005	0.384
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.002	0.003
Calcium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	10.2	10.1
Magnesium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	5.35	5.52
Geosim (ng/L)	Subcontracted: Envirolab report PFJ0250	..	<1
2-Methylisoborneol (2-MIB) (ng/L)	Subcontracted: Envirolab report PFJ0250	..	1.10
Pesticide analysis screen ^{see notes}			
Hexachlorobenzene (HCB) (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Alpha BHC (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Lindane (gamma BHC) (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Heptachlor (µg/L)	Subcontracted: SGS report SE271957	..	<0.02
Aldrin (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Beta BHC (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Delta BHC (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Heptachlor epoxide (µg/L)	Subcontracted: SGS report SE271957	..	<0.02
Alpha Endosulfan (µg/L)	Subcontracted: SGS report SE271957	..	<0.02
Gamma Chlordane (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Alpha Chlordane (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
p,p'-DDE (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Dieldrin (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Endrin (µg/L)	Subcontracted: SGS report SE271957	..	<0.02
Beta Endosulfan (µg/L)	Subcontracted: SGS report SE271957	..	<0.02
p,p'-DDD (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
p,p'-DDT (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Endosulfan sulphate (µg/L)	Subcontracted: SGS report SE271957	..	<0.02
Endrin Aldehyde (µg/L)	Subcontracted: SGS report SE271957	..	<0.02
Methoxychlor (µg/L)	Subcontracted: SGS report SE271957	..	<0.1
Endrin Ketone (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Isodrin (µg/L)	Subcontracted: SGS report SE271957	..	<0.02
Mirex (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Oxychlordane (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Total OC (µg/L)	Subcontracted: SGS report SE271957	..	<1
Dichlorvos (µg/L)	Subcontracted: SGS report SE271957	..	<0.5
Dimethoate (µg/L)	Subcontracted: SGS report SE271957	..	<0.15
Diazinon (Dimpylate) (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Fenitrothion (µg/L)	Subcontracted: SGS report SE271957	..	<0.2
Malathion (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Chlorpyrifos (Chlorpyrifos Ethyl) (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Parathion-ethyl (Parathion) (µg/L)	Subcontracted: SGS report SE271957	..	<0.01
Bromophos Ethyl (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Methidathion (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Ethion (µg/L)	Subcontracted: SGS report SE271957	..	<0.05
Azinphos-methyl (Guthion) (µg/L)	Subcontracted: SGS report SE271957	..	<0.05

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Samples submitted by Water Results. Your Job: RVC Raw & Finished Quarterly

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Parameter	Methods reference	Sample 1	Sample 2
		RVC Finished	RVC Raw
	Job No.	R9569/1	R9569/2
<u>Volatile Halogenated Compounds</u>			
Dichlorodifluoromethane (CFC-12) (µg/L)	Subcontracted: SGS report SE271956	<5	..
Chloromethane (µg/L)	Subcontracted: SGS report SE271956	<5	..
Vinyl chloride (Chloroethene) (µg/L)	Subcontracted: SGS report SE271956	<0.3	..
Chloroethane (µg/L)	Subcontracted: SGS report SE271956	<5	..
Trichlorofluoromethane (µg/L)	Subcontracted: SGS report SE271956	<1	..
1,1-dichloroethene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Dichloromethane (Methylene chloride) (µg/L)	Subcontracted: SGS report SE271956	<5	..
Allyl chloride (µg/L)	Subcontracted: SGS report SE271956	<2	..
trans-1,2-dichloroethene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,1-dichloroethane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
cis-1,2-dichloroethene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Bromochloromethane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Chloroform (THM) (µg/L)	Subcontracted: SGS report SE271956	7.70	..
2,2-dichloropropane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,2-dichloroethane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,1,1-trichloroethane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,1-dichloropropene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Carbon tetrachloride (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Dibromomethane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,2-dichloropropane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Trichloroethene (Trichloroethylene,TCE) (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Bromodichloromethane (THM) (µg/L)	Subcontracted: SGS report SE271956	2.20	..
cis-1,3-dichloropropene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
trans-1,3-dichloropropene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,1,2-trichloroethane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,3-dichloropropane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Dibromochloromethane (THM) (µg/L)	Subcontracted: SGS report SE271956	0.60	..
1,2-dibromoethane (EDB) (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Tetrachloroethene (Perchloroethylene,PCE) (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,1,1,2-tetrachloroethane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Chlorobenzene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Bromoform (THM) (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,1,2,2-tetrachloroethane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,2,3-trichloropropane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
trans-1,4-dichloro-2-butene (µg/L)	Subcontracted: SGS report SE271956	<1	..
Bromobenzene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
2-chlorotoluene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
4-chlorotoluene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,3-dichlorobenzene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,4-dichlorobenzene (µg/L)	Subcontracted: SGS report SE271956	<0.3	..
1,2-dichlorobenzene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,2-dibromo-3-chloropropane (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,2,4-trichlorobenzene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Hexachlorobutadiene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
1,2,3-trichlorobenzene (µg/L)	Subcontracted: SGS report SE271956	<0.5	..
Iodomethane (µg/L)	Subcontracted: SGS report SE271956	<5	..
Total Chlorinated Hydrocarbons (µg/L)	Subcontracted: SGS report SE271956	11.00	..

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 25/10/2024.

