

### Water - Certificate of Analysis - E25-00-6939

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
Contact:	Lab Results	Contact:	EAL Customer Service Team
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Customer reference:	RVC Raw & Finished Monthly	Request ID:	EAL /E25-00-6939
Number of samples:	2	Report ID:	E25-00-6939_EALP3_1
Date samples received:	24 June 2025	Issue date:	07 July 2025

Authorised by:	Alex Smith
Position:	Senior Technical Officer



Comments: EAL is a NATA accredited laboratory (14960), accredited for compliance with ISO/IEC 17025 - Testing.

## Certificate of Analysis

Request ID: EAL/E25-00-6939 Report ID: E25-00-6939\_EALP3\_1 Issue date: 07 July 2025

Client Sample ID:				RVC Finished	RVC Raw
Sample Date:				24 June 2025	24 June 2025
Sample Time:				10:25am	10:00am
Sampled By:				MM	MM
EAL Sample ID:				E25-00-6939-0001	E25-00-6939-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	7.23	7.60
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.338	0.296
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	230	201
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	< 1	21
Turbidity	NTU	APHA 2130	<1	< 1	23
True Colour	PtCo	** APHA 2120	<5	8	20
Apparent Colour	PtCo	** APHA 2120	<5	11	88
Total Alkalinity	mg CaCO <sub>3</sub> /L	** APHA 2320	<1	123	134
Water Hardness	mg/L CaCO <sub>3</sub> equivalent	** Calculation using Ca and Mg	<1	138	137
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	7700
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	170
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	1.10	2.03
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	26.4	26.5
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	16.0	15.8
Chloride/Sulfate Ratio	---	Dissolved - APHA 3125 ICPMS	---	1.06	n.a.
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.031	0.041
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.005	0.094
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	0.028
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.029	0.191
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	< 0.005	0.737
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	< 0.001	0.061
Total Plate Count	cfu/ml	** Inhouse	<1	< 1	---
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	---	1.94
Total Phosphorus	mg/L P	Inhouse W4	<0.01	---	0.112
Nitrate	mg/L N	APHA 4500 NO <sub>3</sub> -F	<0.005	---	0.008
Nitrite	mg/L N	APHA 4500 NO <sub>2</sub> -I	<0.005	---	< 0.005

### Notes:

- \*\* denotes NATA accreditation does not cover the performance of this service.
- .. denotes not requested, no data/information or no guidelines available.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm