Certificate of Analysis E25-00-2126

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	RVC Raw & Finished Weekly	Request ID:	EAL /E25-00-2126
Number of samples:	2	Report ID:	E25-00-2126_EALP3_1
Date samples received:	25 February 2025	Issue date:	11 March 2025

Authorised by:	Alex Smith
Position:	Senior Technical Officer

Accreditation No. 14960

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

Certificate of Analysis

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				Client Sample ID:	RVC Finished	RVC Raw
				Sample Date:	25 February 2025	25 February 2025
				Sample Time:	11.00	10.30
				EAL Sample ID:	E25-00-2126-0001	E25-00-2126-0002
Parameter	**Unit**	**Method Reference**	**LOR**	---	---	
pH	---	APHA 4500-H+ B	---	7.17	7.47	
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.339	0.284	
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	231	193	
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	3	29	
Turbidity	NTU	APHA 2130	<1	< 1	31	
True Colour	PtCo	** APHA 2120	<5	5	17	
Apparent Colour	PtCo	** APHA 2120	<5	< 5	231	
Total Alkalinity	mg CaCO3/L	** APHA 2320	<1	105	117	
Water Hardness	mg/L CaCO3 equivalent	** Calculation using Ca and Mg	<1	106	106	
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	4700	
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	60	
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	1.61	2.87	
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	22.0	22.6	
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	12.2	12.1	
Chloride/Sulfate Ratio	---	Dissolved - APHA 3125 ICPMS	---	1.14	n.a.	
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.035	0.022	
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	< 0.005	0.045	
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	0.024	
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.046	0.309	
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.011	0.647	
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.001	0.115	
Total Plate Count	cfu/ml	** Inhouse	<1	< 1	---	

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