

DATE OF ISSUE: 17/02/23

REPORT NO: WN230197

Water Analysis Report

REPORT NO:	WN230197	ISSUE DATE:	17/02/23
DATE SAMPLES RECEIVED:	7/02/23	PURCHASE ORDER:	
SAMPLES RECEIVED:	10	COMMENT:	Results relate only to items tested.

SUBMITTER:	David Cash
COMPANY:	Richmond Valley Council
ADDRESS:	Locked Bag 10 CASINO NSW 2470,

METHOD ID	ANALYSIS METHOD
W107	EC, pH, Alkalinity & Chloride in water by autotitrator
W112	Turbidity of water
W111	Determination of True and Apparent Colour in Water
W125	Anions in Water and Aqueous Extracts by Ion Chromatography
W141	Ammonia Nitrogen by FIA
W151	Nitrite Nitrogen by FIA
W153	Oxidised Nitrogen by FIA
M670	Elements and Metals by ICP-AES
C804	Hardness
M671	Elements and Metals by ICP-MS

REPORT AUTHORISATION

Approved for Release by:



Steven Leahy
Chemist



Accreditation No. 14173
Accredited for compliance
with ISO/IEC 17025 - Testing



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ANALYSIS RESULTS			1	2	3	4	5	6
Test Description	LOR	UNITS	Woodburn Riverside Park	Rileys Hill Community Centre	Broadwater Community Centre	Evans Head School	Evans High Zone	Coraki Memorial Park
Date Sampled		Date	7/02/2023	7/02/2023	7/02/2023	7/02/2023	7/02/2023	7/02/2023
Sampled By			MW	MW	MW	MW	MW	MW
Time Sampled		Time	8:10:00 AM	8:30:00 AM	8:50:00 AM	9:10:00 AM	9:30:00 AM	11:15:00 AM
Field Total Chlorine**	0.05	mg/L	0.57	0.75	0.83	0.66	0.46	0.76
Field Free Chlorine**	0.05	mg/L	0.46	0.65	0.65	0.43	0.23	0.53
Field pH**	1	pH units	7.9	8.0	8.2	8.1	8.2	8.2
Field Temperature**	1	°C	27.6	27.4	26.5	28.3	26.3	29.7
Field Turbidity**	0.07	NTU	0.31	0.34	0.36	0.20	0.23	0.15
Field Dissolved Oxygen** in %	1	%	101	103	103	103	98	100
Alkalinity	14	mg/L CaCO ₃	78	79	74	75	76	75
Chloride	0.5	mg/L	12	12	12	11	11	12
Sulfate	0.5	mg/L	0.98	0.99	0.96	0.94	0.95	0.97
Ammonium Nitrogen	0.02	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrite Nitrogen	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate Nitrogen	0.02	mg/L	0.066	0.064	0.073	0.067	0.064	0.070
Dissolved Sodium	0.05	mg/L	15	15	15	15	14	15
Hardness	1.0	mg/L CaCO ₃	64	65	65	66	66	64
Calcium	0.03	mg/L	25	25	25	26	26	24
Magnesium	0.006	mg/L	0.51	0.59	0.59	0.46	0.49	0.81
Total Boron	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aluminium	1.0	µg/L	17	8.0	10	12	49	11
Total Arsenic	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Barium	0.5	µg/L	4.2	3.4	3.3	3.0	3.4	3.1
Total Cadmium	0.1	µg/L	<0.10	<0.10	<0.10	<0.10	0.22	0.33
Total Chromium	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	0.85	0.50
Total Copper	0.5	µg/L	15	29	44	13	5.5	17
Total Iron	5	µg/L	<5	<5	<5	<5	<5	15
Total Manganese	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Nickel	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Lead	0.5	µg/L	0.56	0.65	<0.50	<0.50	<0.50	0.55
Total Antimony	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Selenium	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Zinc	1	µg/L	5.6	5.5	6.2	4.5	11	9.2

ANALYSIS RESULTS			7	8	9	10
Test Description	LOR	UNITS	Box Ridge	Casino 15-17 Sheppard St	Casino North Reservoir	Casino Walker Street
Date Sampled		Date	7/02/2023	7/02/2023	7/02/2023	7/02/2023
Sampled By			MW	MW	MW	MW
Time Sampled		Time	11:30:00 AM	12:25:00 PM	12:40:00 PM	12:10:00 PM
Field Total Chlorine**	0.05	mg/L	0.67	0.96	1.3	0.76
Field Free Chlorine**	0.05	mg/L	0.44	0.73	1.1	0.51
Field pH**	1	pH units	8.2	7.8	7.8	7.9
Field Temperature**	1	°C	28.9	28.5	28.4	28.4
Field Turbidity**	0.07	NTU	0.27	0.26	0.21	0.33
Field Dissolved Oxygen** in %	1	%	103	100	101	99
Alkalinity	14	mg/L CaCO ₃	77	110	110	110
True Colour	1	CU		<1	<1	<1
Chloride	0.5	mg/L	12	33	34	33

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ANALYSIS RESULTS						
			7	8	9	10
Test Description	LOR	UNITS	Box Ridge	Casino 15-17 Sheppard St	Casino North Reservoir	Casino Walker Street
Sulfate	0.5	mg/L	1.0	37	38	37
Ammonium Nitrogen	0.02	mg/L	<0.02	<0.02	<0.02	<0.02
Nitrite Nitrogen	0.01	mg/L	<0.01	<0.01	<0.01	<0.01
Nitrate Nitrogen	0.02	mg/L	0.067	0.094	0.076	0.098
Dissoived Sodium	0.05	mg/L	15	42	42	42
Hardness	1.0	mg/L CaCO ₃	64	130	130	130
Calcium	0.03	mg/L	24	27	27	27
Magnesium	0.006	mg/L	0.80	15	15	15
Total Boron	0.05	mg/L	<0.05	<0.05	<0.05	<0.05
Total Aluminium	1.0	µg/L	6.1	24	23	25
Total Arsenic	0.5	µg/L	<0.50	<0.50	<0.50	<0.50
Total Barium	0.5	µg/L	2.4	25	25	27
Total Cadmium	0.1	µg/L	<0.10	<0.10	<0.10	<0.10
Total Chromium	0.5	µg/L	<0.50	<0.50	<0.50	<0.50
Total Copper	0.5	µg/L	56	7.8	8.7	5.0
Total Iron	5	µg/L	7.1	<5	<5	<5
Total Manganese	0.5	µg/L	<0.5	2.5	3.6	4.0
Total Nickel	0.5	µg/L	<0.50	<0.50	0.68	<0.50
Total Lead	0.5	µg/L	0.71	<0.50	<0.50	<0.50
Total Antimony	0.5	µg/L	<0.50	<0.50	<0.50	<0.50
Total Selenium	0.5	µg/L	<0.50	<0.50	<0.50	<0.50
Total Zinc	1	µg/L	7.4	5.2	4.7	6.2

LABORATORY NOTES

****NATA Accreditation does not cover the performances of this service.**

RVC Casino L River Quarterly

- Results are expressed on an 'as received' basis unless otherwise stated.
- This report should not be reproduced except in full.
- Samples will be retained for one calendar month from the date of the final report and then discarded.
- Clients wishing to recover their samples must contact the laboratory within this period.
- Sample return is at the clients expense.
- Results for elements analysed by ICP are reported in mg/L for ICP-OES and low level analysis in ug/L for ICP-MS