

DATE OF ISSUE: 17/11/22

REPORT NO: WN222096

Water Analysis Report

REPORT NO:	WN222096	ISSUE DATE:	17/11/22
DATE SAMPLES RECEIVED:	9/11/22	PURCHASE ORDER:	PO#PU072281
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
C806	Calculations *
C804	Hardness
M670	Elements and Metals by ICP-AES
W141	Ammonia Nitrogen by FIA
W151	Nitrite Nitrogen by FIA
W153	Oxidised Nitrogen by FIA
W125	Anions in Water and Aqueous Extracts by Ion Chromatography
M671	Elements and Metals by ICP-MS

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

LABORATORY NOTES

RVC Casino and Lower River Consumer Quarterly

Industry recommended holding times from sampling to analysis of pH, EC and turbidity is <24 hours. Holding times have been exceeded which has an undetermined impact on results.

- 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. Samples will then be discarded.
- Clients wishing to recover their samples must contact the laboratory within this period.
- This laboratory will return residual samples at client expense.

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	Broadwater Community Centre	Rileys Hill Community Centre	Evans Head School	Evans High Zone	Coraki Memorial Park
Field Total Chlorine*	0.05	mg/L	0.75	0.98	0.84	1.0	0.71	0.95
Field Free Chlorine*	0.05	mg/L	0.60	0.90	0.69	0.92	0.69	0.91
Field pH*	1	pH units	7.9	8.2	8.1	8.2	8.3	8.4
Field Electrical Conductivity*	10	µS/cm	190	190	190	190	190	180
Field Dissolved Oxygen*	1	mg/L	8.9	9.0	9.0	8.8	8.8	8.6
Field Turbidity*	0.07	NTU	0.22	0.18	0.20	0.32	0.26	0.33
Field Temperature*	1	°C	21.5	20.4	20.7	20.5	20.7	24.5
Alkalinity	14	mg/L CaCO ₃	73	75	74	75	80	73
TDS _(calc)	6	mg/L	130	130	130	130	130	120
Electrical Conductivity	10	µS/cm	190	190	190	190	190	190
Hardness	1.0	mg/L CaCO ₃	68	67	67	68	69	66
Calcium	0.03	mg/L	26	26	26	26	27	25
Magnesium	0.006	mg/L	0.60	0.67	0.67	0.56	0.59	0.87
Ammonium Nitrogen	0.02	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Nitrite Nitrogen	0.01	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate Nitrogen	0.02	mg/L	0.12	0.12	0.12	0.16	0.14	0.14
Chloride	0.5	mg/L	12	12	12	11	11	11
Sulfate	0.5	mg/L	1.3	1.2	1.1	1.2	1.2	1.2
Total Aluminium	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Arsenic	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Boron	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Cadmium	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Chromium	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Copper	0.01	mg/L	0.018	0.011	0.029	<0.01	<0.01	0.015
Total Iron	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Manganese	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Sodium	0.07	mg/L	13	13	13	13	13	13
Total Nickel	0.007	mg/L	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Total Lead	0.03	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Total Selenium	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Zinc	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Antimony	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

ANALYSIS RESULTS			7	8	9	10
Test Description	LOR	UNITS	Box Ridge	Casino Council Depot	Casino Bruton St	Casino Walker Street
Field Total Chlorine*	0.05	mg/L	0.93	0.85	1.1	1.1
Field Free Chlorine*	0.05	mg/L	0.89	0.82	0.82	1.1
Field pH*	1	pH units	8.3	7.9	7.8	7.9
Field Electrical Conductivity*	10	µS/cm	180	360	360	360
Field Dissolved Oxygen*	1	mg/L	8.7	8.6	8.6	8.6
Field Turbidity*	0.07	NTU	0.33	0.30	0.36	0.32
Field Temperature*	1	°C	22.3	22.3	21.7	23.6
True Colour	1	CU		<1.0	<1.0	<1.0
Alkalinity	14	mg/L CaCO ₃	75	99	110	100
TDS _(calc)	6	mg/L	120	240	240	240
Electrical Conductivity	10	µS/cm	190	360	360	360
Hardness	1.0	mg/L CaCO ₃	65	99	100	100

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ANALYSIS RESULTS						
			7	8	9	10
Test Description	LOR	UNITS	Box Ridge	Casino Council Depot	Casino Bruton St	Casino Walker Street
Calcium	0.03	mg/L	24	22	22	22
Magnesium	0.006	mg/L	0.85	11	11	12
Ammonium Nitrogen	0.02	mg/L	<0.020	<0.020	<0.020	<0.020
Nitrite Nitrogen	0.01	mg/L	<0.010	<0.010	<0.010	<0.010
Nitrate Nitrogen	0.02	mg/L	0.14	0.16	0.15	0.16
Chloride	0.5	mg/L	11	23	23	23
Sulfate	0.5	mg/L	1.2	42	39	40
Total Aluminium	0.05	mg/L	<0.05	<0.05	<0.05	<0.05
Total Arsenic	0.05	mg/L	<0.05	<0.05	<0.05	<0.05
Total Boron	0.05	mg/L	<0.05	<0.05	<0.05	<0.05
Total Cadmium	0.01	mg/L	<0.01	<0.01	<0.01	<0.01
Total Chromium	0.01	mg/L	<0.01	<0.01	<0.01	<0.01
Total Copper	0.01	mg/L	0.036	0.018	0.012	<0.01
Total Iron	0.01	mg/L	<0.01	0.023	<0.01	<0.01
Total Manganese	0.01	mg/L	<0.01	<0.01	0.01	<0.01
Total Sodium	0.07	mg/L	13	35	35	36
Total Nickel	0.007	mg/L	<0.007	<0.007	<0.007	<0.007
Total Lead	0.03	mg/L	<0.03	<0.03	<0.03	<0.03
Total Selenium	0.05	mg/L	<0.05	<0.05	<0.05	<0.05
Total Zinc	0.01	mg/L	<0.01	<0.01	<0.01	<0.01
Total Antimony	0.5	µg/L	<0.50	<0.50	<0.50	<0.50