



## Certificate Of Analysis

**Client:** Richmond Valley Council  
**Address:** Locked Bag 10  
Casino NSW 2470  
**Contact:** Sandeep Chugh  
**Sampled by:** Chantel Cremen

Final report

**Report no:** 22/0165  
**Date received:** 2/02/2022  
**Testing commenced:** 2/02/2022  
**Date reported:** 18/07/2022  
**No. of samples:** 10  
**Revision no:** 00

\* **Subcontract Laboratory:** Envirolab (NATA 2901) / SGS (2562)

\* **Subcontract Reference:** 288067 / ME325053

RVC Casino & L River Quarterly

Sampled in accordance with RWL 2.0 to 2.05

Sample No.: Sample description:	Unit	Method	LOR	22/0165/1 Woodburn Riverside Park 2/02/2022 07:40	22/0165/2 Casino Council Depot 3/02/2022 13:13	22/0165/3 Casino Bruton St 3/02/2022 12:28	22/0165/4 Casino Walker Street 3/02/2022 12:09	22/0165/5 Coraki Memorial Park 2/02/2022 13:16	22/0165/6 Box Ridge Community 2/02/2022 12:30	22/0165/7 Broadwater Community Centre 2/02/2022 09:00
Colour (True)	Pt-Co	RWL10.02	2	<2	<2	<2	<2	<2	<2	<2
Ammonia-N	mg/L	RWL 10.06	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen - Nitrate-N	mg/L	RWL 10.05	0.05	0.15	0.13	0.12	0.25	0.15	0.14	0.14
Nitrogen - Nitrite-N	mg/L	RWL 10.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aluminium (Total)	mg/L	APHA3120B	0.005	0.025	0.041	0.053	0.027	0.015	0.015	0.022
Copper (Total)	mg/L	APHA3120B	0.005	<0.005	0.026	0.028	0.030	0.007	0.022	0.005
Iron (Total)	mg/L	APHA3120B	0.005	0.005	0.03	0.02	0.005	<0.005	<0.005	<0.005
Lead (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Total)	mg/L	APHA3120B	0.005	0.007	<0.005	0.020	0.005	<0.005	0.005	<0.005
Total Trihalomethanes*	µg/L	Envirolab	1	55	66	52	50	57	47	30
Conductivity - field	µS/cm	APHA2510B	1	201	342	339	340	189	186	201
Total Dissolved Solids - field	mg/L	APHA1030E	2	129	219	217	218	121	119	128



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Arsenic (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium (Total)	mg/L	APHA3120B	0.01	<0.01	0.019	0.020	0.021	<0.01	<0.01	<0.01
Boron (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	mg/L	APHA3120B	0.1	21.5	16.3	15.9	15.0	19.7	19.6	21.8
Magnesium	mg/L	APHA3120B	0.1	0.6	7.2	7.9	8.3	0.9	0.9	0.7
Hardness as CaCO <sub>3</sub>	mg/L	APHA2340B	1	56	70	72	72	53	53	57
Chromium (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sodium	mg/L	APHA3120B	0.15	19.4	44.8	43.9	43.2	19.2	19.6	19.8
Nickel (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloride	mg/L	RWL 10.09	2	16	22	22	22	16	16	17
Fluoride - ISE	mg/L	APHA4500FC	0.05	1.05	1.09	1.08	1.10	1.05	1.02	1.05
Sulphate	mg/L	RWL 10.10	1	2.5	52.6	49.6	50.1	1.2	1.2	1.3
Alkalinity (as CaCO <sub>3</sub> )	mg/L	APHA2320B	20	71	79	77	79	71	68	74
Hydrogen Sulphide*	mg/L	SGS	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon tetrachloride*	µg/L	Envirolab	1	<1	<1	<1	<1	<1	<1	<1
Cadmium (Total)*	mg/L	Envirolab	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Antimony (Total)*	mg/L	Envirolab	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001



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Sample No.: Sample description:	Unit	Method	LOR	22/0165/8 Rileys Hill Community Centre 2/02/2022 08:42	22/0165/9 Evans Head School 2/02/2022 09:39	22/0165/10 Evans Head High Zone 2/02/2022 10:27
Colour (True)	Pt-Co	RWL10.02	2	<2	<2	<2
Ammonia-N	mg/L	RWL 10.06	0.01	<0.01	<0.01	<0.01
Nitrogen - Nitrate-N	mg/L	RWL 10.05	0.05	0.16	0.14	0.15
Nitrogen - Nitrite-N	mg/L	RWL 10.05	0.01	<0.01	<0.01	<0.01
Aluminium (Total)	mg/L	APHA3120B	0.005	0.018	0.024	0.024
Copper (Total)	mg/L	APHA3120B	0.005	0.020	0.017	<0.005
Iron (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005
Lead (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005
Manganese (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005
Zinc (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005
Total Trihalomethanes*	µg/L	Envirolab	1	43	52	48
Conductivity - field	µS/cm	APHA2510B	1	202	192	188
Total Dissolved Solids - field	mg/L	APHA1030E	2	129	123	120
Arsenic (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005
Barium (Total)	mg/L	APHA3120B	0.01	<0.01	<0.01	<0.01
Boron (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005
Calcium	mg/L	APHA3120B	0.1	22.0	21.2	21.8
Magnesium	mg/L	APHA3120B	0.1	0.7	0.5	0.5



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Hardness as CaCO <sub>3</sub>	mg/L	APHA2340B	1	58	55	56
Chromium (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005
Sodium	mg/L	APHA3120B	0.15	19.7	18.5	18.5
Nickel (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005
Chloride	mg/L	RWL 10.09	2	17	15	15
Fluoride - ISE	mg/L	APHA4500FC	0.05	1.04	0.97	0.97
Sulphate	mg/L	RWL 10.10	1	1.3	1.3	<1.0
Alkalinity (as CaCO <sub>3</sub> )	mg/L	APHA2320B	20	74	74	71
Hydrogen Sulphide*	mg/L	SGS	0.05	<0.05	<0.05	<0.05
Carbon tetrachloride*	µg/L	Envirolab	1	<1	<1	<1
Cadmium (Total)*	mg/L	Envirolab	0.0001	<0.0001	<0.0001	<0.0001
Antimony (Total)*	mg/L	Envirolab	0.001	<0.001	<0.001	<0.001


**End of results**

Richmond Water Laboratories has temporarily relocated to Wollongbar DPI after the floods and suspended their NATA accreditation. All analysis is now fully accredited and performed under Wollongbar DPI's NATA accreditation.

**General comments:**

This report must not be reproduced except in full. This report relates only to items tested as specified herein. Samples analysed between date received and date reported. Accredited for compliance with ISO/IEC 17025 - Testing # NATA accreditation does not cover the performance of this service. Tests marked with \* are subcontracted. LOR denotes 'Limit of Reporting' < denotes less than; > denotes greater than; ND denotes 'not detected' The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards

**Specific comments:**

  
M Window  
Laboratory Analyst  
Approved Authoriser