

Queensland Urban Utilities

Rathdowney Drinking Water Quality July 2010-June 2011

Aesthetic water quality

Aesthetic test description	No of tests	Units	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2004
Aluminium	47	mg/L	<0.01	0.03	0.011	0.2		Yes
Ammonia (Total, as N)	4	mg/L	<0.02	0.020	<0.02	0.5		Yes
Chloride	11	mg/L	43	90	56	250		Yes
Colour (True)	49	PCU	<5	<5	<5	15		Yes
Hardness (Total)	11	mg/L	51	133	77	200		Yes
Iron	47	mg/L	<0.01	0.120	0.021	0.3		Yes
pH	8	pH unit	7.7	8.1	7.9	8.5		Yes
pH (Field)	42	pH unit	7.4	8.3	7.9	8.5		Yes
Total Dissolved Solids	11	mg/L	144	334	194	500		Yes
Turbidity	49	NTU	0.11	1.14	0.32	5		Yes
Zinc	10	mg/L	<0.01	0.060	0.020	3		Yes

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Health-related water quality

Health related test description	No of tests	Units	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2004
Barium	10	mg/L	0.023	0.057	0.034		0.7	Yes
Cadmium	10	mg/L	<0.01	<0.01	<0.01		0.002	Yes
Chlorine (Free)	49	mg/L	<0.10	3.66	1.08		5	Yes
Chromium	10	mg/L	<0.010	<0.010	<0.010		0.05	Yes
Copper	10	mg/L	<0.01	0.160	0.025		2	Yes
<i>E.coli</i>	23	MPN/100 mL	<1	<1	<1		<1	Yes
Fluoride (as F)	49	mg/L	<0.1	0.13	<0.1		1.5	Yes
Lead	10	mg/L	<0.01	<0.01	<0.01		0.01	Yes
Manganese	47	mg/L	<0.01	0.027	<0.01		0.5	Yes
Nickel	10	mg/L	<0.01	<0.01	<0.01		0.02	Yes
Nitrate (as N)	11	mg/L	<0.1	0.10	0.10		50	Yes
Nitrite (as N)	7	mg/L	<0.10	0.400	0.100		3	Yes
Trihalomethanes (Total)	11	µg/L	60	152	114		250	Yes

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Other water quality

Test description	No of tests	Units	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2004
Alkalinity (as CaCO ₃)	11	mg/L	47	121	68			No criterion
Chlorine (Combined)	46	mg/L	<0.10	1.33	0.32			No criterion
Chlorine (Total)	47	mg/L	<0.10	4.14	1.45			No criterion
Colour (Apparent)	49	PCU	<5	<5	<5			No criterion
Conductivity	50	μS/cm	50	726	385			No criterion
Dissolved Oxygen	7	mg/L	8.9	11.0	9.9			No criterion
Temperature	48	°C	15.8	29.1	21.8			No criterion

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Notes

- The drinking water quality data is representative of drinking water quality for each scheme for July 2010 to June 2011.
- The drinking water quality monitoring program is designed according to the ADWG 2004 and complies with statutory requirements.
- Health-related water quality complies with the ADWG 2004 that the annual 95th percentile value is less than the recommended ADWG 2004 value.
- Aesthetic water quality complies with the ADWG 2004 in that the annual 50th percentile value is less than the recommended ADWG 2004 value.
- E.coli complies with the ADWG 2004 at least 98% of scheduled samples contain no E.coli.

Definitions

ng/L	Nanograms per litre (equivalent to parts per trillion)
mg/L	Mircograms per litre (equivalent to parts per billion)
mg/L	Milligrams per litre (equivalent to parts per million)
cfu	Colony forming units
MPN	Most probable number
mS/cm	Microsiemens per centimetre
PCU	Platinum cobalt colour units
NTU	Nephelometric turbidity units
ADWG 2004	Australian Drinking Water Guidelines 2004 endorsed by the National Health & Medical Research Council