

Queensland Urban Utilities

Boonah-Kalbar 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	110	mg/L	<0.01	1.16	0.056	0.2		Yes
Ammonia (Total, as N)	8	mg/L	<0.02	<0.02	<0.02	0.5		Yes
Chloride	22	mg/L	26	101	61	250		Yes
Colour (True)	112	PCU	<5	6.0	<5	15		Yes
Hardness (Total)	22	mg/L	58	143	105	200		Yes
Iron	110	mg/L	<0.01	0.570	0.023	0.3		Yes
pH	18	pH unit	7.3	7.8	7.6	8.5		Yes
pH (Field)	96	pH unit	7.0	8.1	7.6	8.5		Yes
Total Dissolved Solids	22	mg/L	202	422	289	500		Yes
Turbidity	112	NTU	0.09	4.60	0.42	5		Yes
Zinc	20	mg/L	<0.01	0.060	0.021	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	20	mg/L	0.023	0.040	0.031		0.7	Yes
Cadmium	20	mg/L	<0.01	<0.01	<0.01		0.002	Yes
Chlorine (Free)	114	mg/L	<0.10	3.32	0.92		5	Yes
Chromium	20	mg/L	<0.010	<0.010	<0.010		0.05	Yes
Copper	20	mg/L	<0.01	0.190	0.048		2	Yes
<i>E.coli</i>	53	MPN/100 mL	<1	<1	<1		<1	Yes
Fluoride (as F)	112	mg/L	<0.1	0.86	0.70		1.5	Yes
Lead	20	mg/L	<0.01	0.010	<0.01		0.01	Yes
Manganese	110	mg/L	<0.01	0.290	<0.01		0.5	Yes
Nickel	20	mg/L	<0.01	<0.01	<0.01		0.02	Yes
Nitrate (as N)	22	mg/L	<0.1	0.78	0.20		50	Yes
Nitrite (as N)	14	mg/L	<0.10	0.450	<0.10		3	Yes
Trihalomethanes (Total)	22	µg/L	70	204	129		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)	22	mg/L	67	100	84			No criterion
Chlorine (Combined)	104	mg/L	<0.10	2.79	0.41			No criterion
Chlorine (Total)	108	mg/L	<0.10	4.52	1.32			No criterion
Colour (Apparent)	112	PCU	<5	21.0	<5			No criterion
Conductivity	114	µS/cm	355	810	512			No criterion
Dissolved Oxygen	14	mg/L	7.9	10.1	9.0			No criterion
Temperature	112	°C	14.6	29.3	21.5			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)
µg/L	Micrograms 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