

Queensland Urban Utilities
Boonah-Kalbar Drinking Water Quality July 2012-June 2013

Aesthetic water quality

Aesthetic test description	Units	No of tests	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2011
Aluminium	mg/L	118	0.01	0.074	0.03	0.2	ns	Yes
Chloride	mg/L	24	29	150	68.4	250	ns	Yes
Iron	mg/L	118	0.002	0.29	0.02	0.3	ns	Yes
pH	pH Unit	114	6.8	8	7.38	6.5-8.5	ns	Yes
Total Dissolved Salts	mg/L	101	170	560	268	600	ns	Yes
Total Hardness	mg/L	24	78	170	110	200	ns	Yes
Turbidity	NTU	118	<LOR	0.89	0.16	5	ns	Yes
Zinc	mg/L	24	0.0011	0.54	0.03	3	ns	Yes

Queensland Urban Utilities Boonah-Kalbar Drinking Water Quality July 2012-June 2013

Health-related water quality

Health related test description	Units	No of tests	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2011
Barium	mg/L	24	0.02	0.033	0.03	2	ns	Yes
Cadmium	mg/L	24	<LOR	<LOR	<LOR	0.002	ns	Yes
Chlorine (Total)	mg/L	118	0.13	4.3	1.25	5	ns	Yes
Chromium	mg/L	24	<LOR	0.005	0.002	0.05	ns	Yes
Copper	mg/L	24	0.012	0.07	0.03	2	1	Yes
Escherichia coli	CFU/100mL	118	n/a	n/a	n/a	<1	ns	Yes
Fluoride (as F)	mg/L	118	0.58	1.1	0.79	1.5	ns	Yes
Lead	mg/L	24	<LOR	0.005	0.002	0.01	ns	Yes
Manganese	mg/L	118	<LOR	0.014	0.002	0.5	0.1	Yes
Nickel	mg/L	24	<LOR	0.005	0.002	0.02	ns	Yes
Nitrate (as N)	mg/L	6	<LOR	0.28	0.16	50	ns	Yes
Nitrite (as N)	mg/L	6	<LOR	<LOR	<LOR	3	ns	Yes
Trihalomethanes (Total)	ug/L	24	62	130	98.3	250	ns	Yes

Queensland Urban Utilities

Boonah-Kalbar Drinking Water Quality July 2012-June 2013

Other water quality

Test description	Units	No of tests	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2011
Alkalinity	mg/L	24	74	120	85.7	ns	ns	n/a
Ammonia (Total, as N)	mg/L	24	<LOR	0.08	0.01	ns	ns	n/a
Bromodichloromethane	ug/L	18	22	44	33.1	ns	ns	n/a
Bromoform	ug/L	18	<LOR	11	3.2	ns	ns	n/a
Calcium	mg/L	18	17	32	22.4	ns	ns	n/a
Chlorine (Combined)	mg/L	118	<LOR	2.3	0.41	ns	ns	n/a
Chlorine (Free)	mg/L	118	<LOR	2.2	0.85	ns	ns	n/a
Chlorodibromomethane	ug/L	18	8.8	41	20.1	ns	ns	n/a
Chloroform	ug/L	18	22	68	45.4	ns	ns	n/a
Colour (True)	PCU	118	0.25	2.5	0.91	ns	ns	n/a
Conductivity	uS/cm	114	320	840	440	ns	ns	n/a
Magnesium	mg/L	18	8.8	17	11.3	ns	ns	n/a
Nitrite and Nitrate(as N)	mg/L	18	0.091	0.87	0.33	ns	ns	n/a
Temperature	deg C	118	14	32	22	ns	ns	n/a

Queensland Urban Utilities

Boonah-Kalbar Drinking Water Quality July 2012-June 2013

Definitions

n/a	not applicable
ns	not set

ADWG = Australian Drinking Water Guidelines 2011.

The ADWG 2011 have been developed by the National Health and Medical Research Council (NHMRC) in collaboration with the Natural Resource Management Ministerial Council (NRMMC). The ADWG incorporates the Framework for the Management of Drinking Water Quality and provides the Australian community and the water supply industry with guidance on what constitutes good quality drinking water.

To access the ADWG go to:

http://www.nhmrc.gov.au/_files_nhmrc/publications/attachments/eh52_aust_drinking_water_guidelines_update_120710_0.pdf

Bacteriological quality

Bacteriological quality is assessed by monitoring the water for the organism *Escherichia coli* as an indicator of contamination. A drinking water scheme is considered bacteriologically safe to drink if no *E. coli* are found in 98 % of samples analysed.

Chemical parameters

QUU reports yearly on a number of water quality parameters.

The performance for chemical parameters with a health value is assessed as recommended by the ADWG. Performance is deemed as satisfactory if the 95th percentile value is less than the ADWG health guideline value.

Performance for parameters with an aesthetic guideline value is assessed as recommended by the ADWG. Water is considered good quality if the mean value of an aesthetical parameter is measured at less than the recommended maximum criteria described in ADWG.