

Queensland Urban Utilities Canungra 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	90	0.005	0.039	0.01	0.2	ns	Yes
Iron	mg/L	90	0.0015	0.044	0.01	0.3	ns	Yes
Zinc	mg/L	12	0.0037	0.044	0.01	3	ns	Yes
Turbidity	NTU	90	<LOR	1.1	0.19	5	ns	Yes
Total Hardness	mg/L	12	39	120	85.8	200	ns	Yes
Chloride	mg/L	12	15	42	29.8	250	ns	Yes
Total Dissolved Salts	mg/L	76	93	360	176	600	ns	Yes
pH	pH Unit	87	6.9	8.4	7.76	6.5-8.5	ns	Yes

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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	12	0.0045	0.01	0.01	ns	2	Yes
Cadmium	mg/L	12	<LOR	<LOR	<LOR	ns	0.002	Yes
Chlorine (Total)	mg/L	90	0.4	2.5	1.60	ns	5	Yes
Chromium	mg/L	12	<LOR	0.005	0.002	ns	0.05	Yes
Copper	mg/L	12	0.005	0.02	0.01	1	2	Yes
<i>Escherichia coli</i>	CFU/100mL	90	n/a	n/a	n/a	ns	<1	Yes
Fluoride (as F)	mg/L	90	0.62	1.2	0.81	ns	1.5	Yes
Lead	mg/L	12	<LOR	0.005	0.002	ns	0.01	Yes
Manganese	mg/L	90	<LOR	0.015	0.004	0.1	0.5	Yes
Nickel	mg/L	12	<LOR	0.005	0.002	ns	0.02	Yes
Nitrate (as N)	mg/L	3	<LOR	<LOR	<LOR	ns	50	Yes
Nitrite (as N)	mg/L	3	<LOR	<LOR	<LOR	ns	3	Yes
Trihalomethanes (Total)	ug/L	12	15	88	42.8	ns	250	Yes

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Other water quality

Test description	Units	No of tests	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2011
Alkalinity	mg/L	12	39	100	80	ns	ns	n/a
Ammonia (Total, as N)	mg/L	12	<LOR	0.01	0.004	ns	ns	n/a
Bromodichloromethane	ug/L	9	6.4	27	15.6	ns	ns	n/a
Bromoform	ug/L	9	<LOR	2.6	<LOR	ns	ns	n/a
Calcium	mg/L	9	7.8	24	17.2	ns	ns	n/a
Chlorine (Combined)	mg/L	90	<LOR	1.5	0.40	ns	ns	n/a
Chlorine (Free)	mg/L	90	<LOR	2.2	1.20	ns	ns	n/a
Chlorodibromomethane	ug/L	9	2.5	13	8.8	ns	ns	n/a
Chloroform	ug/L	9	7	46	22.3	ns	ns	n/a
Colour (True)	PCU	90	0.25	2.5	0.75	ns	ns	n/a
Conductivity	uS/cm	87	120	560	263	ns	ns	n/a
Magnesium	mg/L	9	4.8	15	11.2	ns	ns	n/a
Nitrite and Nitrate(as N)	mg/L	9	0.029	0.11	0.05	ns	ns	n/a
Temperature	deg C	90	10	30	21	ns	ns	n/a

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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.