Queensland Urban Utilities
Kooralbyn 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	89	0.005	0.07	0.02	0.2	ns	Yes
Chloride	mg/L	24	59	100	81.6	250	ns	Yes
Iron	mg/L	89	0.003	0.094	0.02	0.3	ns	Yes
pH	pH Unit	85	7.5	8.4	8.10	6.5-8.5	ns	Yes
Total Hardness	mg/L	24	120	220	160	200	ns	Yes
Turbidity	NTU	89	<LOR	1.1	0.18	5	ns	Yes
Zinc	mg/L	24	0.0025	0.13	0.01	3	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	24	0.023	0.06	0.03	ns	2	Yes
Cadmium	mg/L	24	<LOR	<LOR	<LOR	ns	0.002	Yes
Chlorine (Total)	mg/L	89	<LOR	3.2	1.46	ns	5	Yes
Chromium	mg/L	24	<LOR	0.005	0.00	ns	0.05	Yes
Copper	mg/L	24	0.0026	0.007	0.01	1	2	Yes
Escherichia coli	CFU/100mL	89	n/a	n/a	n/a	ns	<1	Yes
Fluoride (as F)	mg/L	89	0.15	1.1	0.79	ns	1.5	Yes
Lead	mg/L	24	<LOR	0.005	0.002	ns	0.01	Yes
Manganese	mg/L	89	<LOR	0.005	0.001	0.1	0.5	Yes
Nickel	mg/L	24	<LOR	0.005	0.002	ns	0.02	Yes
Nitrate (as N)	mg/L	6	<LOR	<LOR	<LOR	ns	50	Yes
Nitrite (as N)	mg/L	6	<LOR	<LOR	<LOR	ns	3	Yes
Trihalomethanes (Total)	ug/L	24	51	290	160.2	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	24	99	160	132	ns	ns	n/a
Ammonia (Total, as N)	mg/L	24	<LOR	0.09	0.01	ns	ns	n/a
Colour (True)	PCU	89	0.25	2.5	0.70	ns	ns	n/a
Conductivity	uS/cm	85	340	650	526	ns	ns	n/a
Temperature	deg C	89	13	29	22	ns	ns	n/a
Total Dissolved Salts	mg/L	78	100	410	344	ns	ns	n/a
Calcium	mg/L	18	26	45	36.1	ns	ns	n/a
Magnesium	mg/L	18	13	26	18.7	ns	ns	n/a
Chlorine (Free)	mg/L	89	<LOR	3.1	1.13	ns	ns	n/a
Chlorine (Combined)	mg/L	89	<LOR	1.3	0.34	ns	ns	n/a
Nitrite and Nitrate(as N)	mg/L	18	0.09	0.22	0.15	ns	ns	n/a
Bromodichloromethane	ug/L	18	33	84	57.2	ns	ns	n/a
Bromoform	ug/L	18	<LOR	18	7.3	ns	ns	n/a

Chlorodibromomethane	ug/L	18	24	64	42.8	ns	ns	n/a
Chloroform	ug/L	18	24	150	73.4	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.