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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	1045	0.005	0.86	0.04	0.2	ns	Yes
Chloride	mg/L	245	17	170	66	250	ns	Yes
Iron	mg/L	1045	0.0027	2.2	0.03	0.3	ns	Yes
pH	pH Unit	1956	6.6	8.8	7.74	6.5-8.5	ns	Yes
Total Dissolved Salts	mg/L	648	120	560	283	600	ns	Yes
Total Hardness	mg/L	545	44	250	124	200	ns	Yes
Turbidity	NTU	2036	<LOR	10	0.25	5	ns	Yes
Zinc	mg/L	546	<LOR	0.92	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	546	0.005	0.046	0.02	ns	2	Yes
Cadmium	mg/L	546	<LOR	<LOR	<LOR	ns	0.002	Yes
Chlorine (Total)	mg/L	10496	<LOR	4	1.1	ns	4.1	Yes
Chromium	mg/L	546	<LOR	0.005	<LOR	ns	0.05	Yes
Copper	mg/L	546	<LOR	1.1	0.02	1	2	Yes
Dichloroacetic Acid	ug/L	58	<LOR	33	11.4	ns	100	Yes
Escherichia coli	CFU/100mL	9104	n/a	n/a	n/a	ns	<1	Yes
Fluoride (as F)	mg/L	737	0.086	1.1	0.78	ns	1.5	Yes
Lead	mg/L	546	<LOR	0.12	0.001	ns	0.01	Yes
Manganese	mg/L	1045	<LOR	0.86	0.01	0.1	0.5	Yes
Monochloroacetic Acid	ug/L	58	<LOR	<LOR	<LOR	ns	150	Yes
Nickel	mg/L	546	<LOR	0.0072	<LOR	ns	0.02	Yes
Nitrate (as N)	mg/L	1430	<LOR	2	0.52	ns	50	Yes
Nitrite (as N)	mg/L	1430	<LOR	0.76	<LOR	ns	3	Yes
Sulfate (as SO4)	mg/L	95	21	96	36.44	250	500	Yes
Trichloroacetic Acid	ug/L	58	<LOR	20	<LOR	ns	100	Yes
Trihalomethanes (Total)	ug/L	201	15	170	78.6	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
2-Methylisoborneol	ng/L	95	<LOR	24	4.2	ns	ns	n/a
Alkalinity	mg/L	238	34	140	77	ns	ns	n/a
Ammonia (Free, as N)	mg/L	1537	<LOR	0.9	0.18	ns	ns	n/a
Ammonia (Total, as N)	mg/L	2024	0.25	3.6	1.37	ns	ns	n/a
Bromide	mg/L	95	<LOR	5	0.10	ns	ns	n/a
Bromochloroacetic Acid	ug/L	58	<LOR	18	<LOR	ns	ns	n/a
Bromodichloromethane	ug/L	165	<LOR	51	23.8	ns	ns	n/a
Bromoform	ug/L	165	<LOR	32	5.64	ns	ns	n/a
Calcium	mg/L	509	12	48	27.5	ns	ns	n/a
Chlorate	mg/L	58	<LOR	0.42	0.16	ns	ns	n/a
Chlorine (Combined)	mg/L	9105	<LOR	4	1.1	ns	ns	n/a
Chlorine (Free)	mg/L	9102	<LOR	2.6	<LOR	ns	ns	n/a
Chlorodibromomethane	ug/L	165	<LOR	69	20.6	ns	ns	n/a
Chloroform	ug/L	165	10	63	32.5	ns	ns	n/a

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Colour (True)	PCU	657	180	880	445	ns	ns	n/a
Conductivity	uS/cm	95	n/a	0.31	n/a	ns	ns	n/a
Dibromoacetic Acid	ug/L	58	<LOR	14	<LOR	ns	ns	n/a
Geosmin	ng/L	95	<LOR	8.9	3.1	ns	ns	n/a
Haloacetic Acids (Total)	ug/L	58	<LOR	64	<LOR	ns	ns	n/a
Magnesium	mg/L	509	3.3	32	13.6	ns	ns	n/a
Monobromoacetic Acid	ug/L	58	<LOR	<LOR	<LOR	ns	ns	n/a
Nitrite and Nitrate(as N)	mg/L	1501	0.023	2	0.59	ns	ns	n/a
N-Nitrosodimethylamine	ng/L	12	<LOR	<LOR	<LOR	ns	ns	n/a
Potasium	mg/L	401	1.7	3.5	2.67	ns	ns	n/a
Silica	mg/L	95	5.4	21	12.8	ns	ns	n/a
Sodium	mg/L	401	16	87	41.9	ns	ns	n/a
Temperature	deg C	9082	5	35	24	ns	ns	n/a
Total Organic Carbon	mg/L	94	1.9	4.6	3.06	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.