

Queensland Urban Utilities Lowood 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
2-methylisoborneol	16	ng/L	<2	2.3	1.2	5		Yes
Aluminium	47	mg/L	<0.01	0.21	0.043	0.2		Yes
Ammonia (Total, as N)	34	mg/L	<0.004	0.320	0.020	0.5		Yes
Chloride	44	mg/L	21	110	52	250		Yes
Colour (True)	46	PCU	<0.5	2.5	1.4	15		Yes
Geosmin	16	ng/L	<2	5.1	2.8	5		Yes
Hardness (Total)	46	mg/L	89	219	131	200		Yes
Iron	47	mg/L	<0.01	0.210	0.028	0.3		Yes
pH	112	pH unit	6.9	8.2	7.6	8.5		Yes
pH (Field)	432	pH unit	6.4	8.5	7.6	8.5		Yes
Sodium	25	mg/L	13	49	29	180		Yes
Sulfate (measured as SO ₄)	24	mg/L	26	110	52	250		Yes
Total Dissolved Salts	24	mg/L	200	430	263	500		Yes
Total Dissolved Solids	20	mg/L	135	383	242	500		Yes
Turbidity	46	NTU	0.11	2.70	0.41	5		Yes
Zinc	47	mg/L	0.002	0.670	0.033	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	47	mg/L	0.022	0.049	0.028		0.7	Yes
Bromodichloromethane	16	µg/L	14	51	28		250	Yes
Bromoform	16	µg/L	<2	14	3		250	Yes
Cadmium	47	mg/L	<0.01	<0.01	<0.01		0.002	Yes
Chlorine (Free)	645	mg/L	<0.10	3.73	0.74		5	Yes
Chlorodibromomethane	16	µg/L	4	58	19		250	Yes
Chloroform	16	µg/L	22	74	39		250	Yes
Chromium	47	mg/L	<0.001	0.005	0.003		0.05	Yes
Copper	47	mg/L	0.003	0.087	0.014		2	Yes
Dichloroacetic Acid	16	µg/L	<10	45	19		100	Yes
<i>E.coli</i>	646	MPN/100 mL	<1	25	<1		<1	Yes
Fluoride (as F)	46	mg/L	<0.1	0.91	0.63		1.5	Yes
Lead	48	mg/L	<0.001	0.020	0.003		0.01	Yes
Manganese (mg/L)	47	mg/L	0.001	0.140	0.015		0.5	Yes
Nickel	47	mg/L	<0.001	0.005	0.003		0.02	Yes
Nitrate (as N)	44	mg/L	0.10	0.51	0.24		50	Yes
Nitrite (as N)	40	mg/L	<0.002	0.065	0.021		3	Yes
Trichloroacetic Acid	16	µg/L	11	31	18		100	Yes
Trihalomethanes (Total)	38	µg/L	57	170	106		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)	46	mg/L	33	128	69			No criterion
Bromide	24	mg/L	<0.01	0.150	0.040			No criterion
Bromochloroacetic Acid	16	µg/L	<10	23	11			No criterion
Calcium	24	mg/L	21	50	31			No criterion
Chlorate	16	mg/L	<0.01	0.72	0.17			No criterion
Chlorine (Combined)	603	mg/L	<0.10	1.71	0.31			No criterion
Chlorine (Total)	634	mg/L	<0.10	4.20	1.05			No criterion
Colour (Apparent)	22	PCU	<5	9.0	<5			No criterion
Conductivity	555	µS/cm	1	830	437			No criterion
Dibromoacetic Acid	16	µg/L	<10	18	<10			No criterion
Dissolved Oxygen	20	mg/L	7.5	9.9	8.5			No criterion
Haloacetic Acids (Total)	12	µg/L	<60	95	<60			No criterion
Langelier Index	24		-1.50	-0.11	-0.68			No criterion
Magnesium	24	mg/L	6	25	12			No criterion
Monobromoacetic Acid	16	µg/L	<5	<5	<5			No criterion
Monochloroacetic Acid	16	µg/L	<5	<5	<5			No criterion
Nitrite and Nitrate (as N)	24	mg/L	0.120	0.490	0.274			No criterion
Potassium	25	mg/L	2.6	4.2	3.4			No criterion
Silica	24	mg/L	9	19	12			No criterion
Silicon	24	mg/L	4	9	6			No criterion
Temperature	511	°C	0.1	30.5	22.1			No criterion
Total Organic Carbon	24	mg/L	2.1	4.2	3.1			No criterion
Total Sulfur (as S)	24	mg/L	8.5	37.0	17.3			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)
mg/L	Mircograms 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