

## Queensland Urban Utilities

### Toogoolawah 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	12	ng/L	<2	2.2	1.1	5		Yes
Aluminium	12	mg/L	0.025	0.089	0.049	0.2		Yes
Ammonia (Total, as N)	12	mg/L	<0.004	0.012	<0.004	0.5		Yes
Chloride	12	mg/L	25	74	50	250		Yes
Colour (True)	12	PCU	<0.5	0.8	<0.5	15		Yes
Geosmin	12	ng/L	<2	5.7	2.8	5		Yes
Hardness (Total)	12	mg/L	79	180	115	200		Yes
Iron	12	mg/L	0.003	0.023	0.011	0.3		Yes
pH	12	pH unit	7.4	8.0	7.7	8.5		Yes
Sodium	12	mg/L	32	45	36	180		Yes
Sulfate (measured as SO <sub>4</sub> )	12	mg/L	22	78	40	250		Yes
Total Dissolved Salts	12	mg/L	210	350	260	500		Yes
Turbidity	12	NTU	0.05	0.47	0.20	5		Yes
Zinc	12	mg/L	0.003	0.160	0.027	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	12	mg/L	0.020	0.041	0.027		0.7	Yes
Bromodichloromethane	12	µg/L	19	53	38		250	Yes
Bromoform	12	µg/L	<2	6	2		250	Yes
Cadmium	12	mg/L	<0.001	<0.001	<0.001		0.002	Yes
Chlorine (Free)	50	mg/L	<0.10	2.20	0.96		5	Yes
Chlorodibromomethane	12	µg/L	6	44	20		250	Yes
Chloroform	12	µg/L	45	160	80		250	Yes
Chromium	12	mg/L	<0.001	<0.001	<0.001		0.05	Yes
Copper	12	mg/L	0.006	0.055	0.019		2	Yes
Dichloroacetic Acid	12	µg/L	19	74	44		100	Yes
<i>E.coli</i>	51	cfu/100 mL	<1	<1	<1		<1	Yes
Fluoride (as F)	12	mg/L	0.77	0.93	0.85		1.5	Yes
Lead	12	mg/L	<0.001	0.003	0.001		0.01	Yes
Manganese (mg/L)	12	mg/L	<0.001	0.006	0.002		0.5	Yes
Nickel	12	mg/L	<0.001	0.002	<0.001		0.02	Yes
Nitrate (as N)	12	mg/L	0.13	0.24	0.17		50	Yes
Nitrite (as N)	12	mg/L	<0.002	0.002	<0.002		3	Yes
Trichloroacetic Acid	12	µg/L	22	70	46		100	Yes
Trihalomethanes (Total)	12	µg/L	94	210	138		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 <sub>3</sub> )	12	mg/L	56	100	75			No criterion
Bromide	12	mg/L	<0.01	0.130	0.035			No criterion
Bromochloroacetic Acid	12	µg/L	<10	23	16			No criterion
Calcium	12	mg/L	23	44	30			No criterion
Chlorate	12	mg/L	<0.01	0.81	0.37			No criterion
Chlorine (Combined)	47	mg/L	<0.10	0.70	0.18			No criterion
Chlorine (Total)	50	mg/L	0.05	2.50	1.12			No criterion
Conductivity	12	µS/cm	320	550	405			No criterion
Dibromoacetic Acid	12	µg/L	<10	<10	<10			No criterion
Haloacetic Acids (Total)	10	µg/L	<60	160	93			No criterion
Langelier Index	12		-0.67	0.04	-0.28			No criterion
Magnesium	12	mg/L	5	16	10			No criterion
Monobromoacetic Acid	12	µg/L	<5	<5	<5			No criterion
Monochloroacetic Acid	12	µg/L	<5	<5	<5			No criterion
Nitrite and Nitrate (as N)	12	mg/L	0.130	0.240	0.168			No criterion
Potassium	12	mg/L	2.7	4.2	3.4			No criterion
Silica	12	mg/L	10	17	13			No criterion
Silicon	12	mg/L	5	8	6			No criterion
Total Organic Carbon	12	mg/L	2.4	4.6	3.4			No criterion
Total Sulfur (as S)	12	mg/L	7.3	26.0	13.4			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