

Queensland Urban Utilities Beaundesert 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
Aluminium	197	mg/L	<0.01	0.13	0.016	0.2		Yes
Ammonia (Total, as N)	17	mg/L	<0.02	0.050	<0.02	0.5		Yes
Chloride	44	mg/L	44	94	62	250		Yes
Colour (True)	200	PCU	<5	5.0	<5	15		Yes
Hardness (Total)	44	mg/L	63	154	105	200		Yes
Iron	197	mg/L	<0.01	0.860	0.029	0.3		Yes
pH	32	pH unit	7.6	8.1	7.9	8.5		Yes
pH (Field)	170	pH unit	6.9	8.4	7.8	8.5		Yes
Total Dissolved Solids	44	mg/L	161	356	230	500		Yes
Turbidity	200	NTU	0.09	7.52	0.36	5		Yes
Zinc	40	mg/L	<0.01	0.340	0.029	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	40	mg/L	0.021	0.045	0.029		0.7	Yes
Cadmium	40	mg/L	<0.01	<0.01	<0.01		0.002	Yes
Chlorine (Free)	202	mg/L	<0.10	2.57	0.79		5	Yes
Chromium	40	mg/L	<0.010	<0.010	<0.010		0.05	Yes
Copper	40	mg/L	<0.01	0.034	<0.01		2	Yes
<i>E.coli</i>	202	MPN/100 mL	<1	<1	<1		<1	Yes
Fluoride (as F)	200	mg/L	0.15	0.84	0.70		1.5	Yes
Lead	40	mg/L	<0.01	<0.01	<0.01		0.01	Yes
Manganese	197	mg/L	<0.01	0.021	<0.01		0.5	Yes
Nickel	40	mg/L	<0.01	<0.01	<0.01		0.02	Yes
Nitrate (as N)	44	mg/L	<0.1	0.60	0.27		50	Yes
Nitrite (as N)	29	mg/L	<0.10	0.200	<0.10		3	Yes
Trihalomethanes (Total)	43	mg/L	59	245	133		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)	44	mg/L	59	133	89			No criterion
Chlorine (Combined)	186	mg/L	<0.10	3.40	0.30			No criterion
Chlorine (Total)	194	mg/L	<0.10	3.60	1.07			No criterion
Colour (Apparent)	200	PCU	<5	16.0	<5			No criterion
Conductivity	202	µS/cm	177	700	442			No criterion
Dissolved Oxygen	27	mg/L	6.2	10.1	8.6			No criterion
Temperature	192	°C	14.1	31.9	22.9			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 95 th percentile value is less than the recommended ADWG 2004 value.
- Aesthetic water quality complies with the ADWG 2004 in that the annual 50 th 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