

Appendix 4: Health, Aesthetic and Other Parameters in Minor Centres 2002-2004

Drinking Water Quality in Adelaide River

Parameter/Location	Trigger level ¹	Units	Actual level ²
Health Parameters			
Antimony	0.003	mg/L	0.0001
Arsenic	0.007	mg/L	0.003
Barium	0.7	mg/L	0.03
Boron	4	mg/L	0.02
Cadmium	0.002	mg/L	0.0001
Chromium	0.05	mg/L	0.002
Fluoride	1.5	mg/L	0.2
Iodide	0.1	mg/L	0.007
Lead	0.01	mg/L	0.002
Mercury	0.001	mg/L	0.0005
Molybdenum	0.05	mg/L	0.002
Nickel	0.02	mg/L	0.001
Nitrate	50	mg/L	0.5
Nitrite ³	3	mg/L	DNA
Radiological ⁴	0.5	mSv/year	0.17
Selenium	0.01	mg/L	0.005
Silver	0.1	mg/L	0.005
Total THMs	0.25	mg/L	0.002
Uranium	0.02	mg/L	0
Aesthetic Parameters			
Aluminium	0.2	mg/L	0.01
Chloride	250	mg/L	20
Copper	1	mg/L	0.3
Hardness	200	mg/L CaCO ₃	75
Iron	0.3	mg/L	0.4
Manganese	0.1	mg/L	0.07
pH	6.5 - 8.5	pH units	6.8
Sodium	180	mg/L	17
Sulphate	500	mg/L	6
TDS	800	mg/L	180
Zinc	3	mg/L	0.06
Other Parameters⁵			
Alkalinity	*	mg/L	90
Beryllium	*	mg/L	0.0005
Bromide	*	mg/L	0.07
Calcium	*	mg/L	13
Electrical Conductivity	*	µS/cm	230
Magnesium	*	mg/L	10
Potassium	*	mg/L	1
Silica	*	mg/L	25
Tin	*	mg/L	0.005

Legend

N/A	Not applicable	*	No guideline value applicable
DNA	Data not available	µS/cm	Microsiemens per centimetre
mg/L	Milligrams per litre	mSv/year	Millisieverts per year

¹ Australian Drinking Water Guideline (ADWG 1996) values for health and aesthetic parameters. TDS guideline value set by DHCS.

² Actual level is the average of results obtained from samples collected in the reticulation system in Adelaide River for 2002-2004.

³ Readily oxidises to Nitrate and therefore not tested.

⁴ Total annual radiological dose per year.

⁵ With the exception of Beryllium and Tin all other parameters are not included in the ADWG and tests are conducted for analytical purposes and to assist in providing a complete set of water quality results.