

# The full picture

A complete analysis of your drinking water



## Barossa (supplying Gawler and surrounds) water supply system

**Date generated:** Sunday 20 December 2020

**Period the data covers:** 12 months prior to Monday 30 November 2020

Your drinking water comes from the River Murray and the reservoirs within the Mount Lofty ranges. It's filtered and treated using chlorine and fluoride is added for public health before being supplied to your taps.

We manage South Australia's drinking water quality in line with our robust Drinking Water Quality Management System which ensures you're supplied with good quality, safe drinking water treated to meet the strict national standards set by the [Australian Drinking Water Guidelines](#) 2011 (ADWG).

Rather than an exhaustive list, the information in this report shows the characteristics of water which we regularly test for, as well as those with an ADWG health guideline. Water quality test results shown are from routine samples taken at various locations, with data reported monthly and results reflecting an average for the past 12-months.

System: Barossa (supplying Gawler and surrounds)	Unit	National health guideline	National aesthetic guideline	Result (average)	Health compliance *
Alkalinity	mg/L	No guideline	No guideline	49	Not applicable
Aluminium - acid soluble	mg/L	No guideline	≤ 0.2	0.029	Not applicable
Antimony	mg/L	≤ 0.003	No guideline	<0.0005	100%
Arsenic	mg/L	≤ 0.01	No guideline	0.0004	100%
Barium	mg/L	≤ 2	No guideline	0.0344	100%
Beryllium	mg/L	≤ 0.06	No guideline	<0.0003	100%
Bicarbonate	mg/L	No guideline	No guideline	59	Not applicable
Boron	mg/L	≤ 4	No guideline	0.022	100%
Cadmium	mg/L	≤ 0.002	No guideline	<0.0001	100%
Calcium	mg/L	No guideline	No guideline	25.3	Not applicable
Carbonate	mg/L	No guideline	No guideline	0	Not applicable
Chloral hydrate	µg/L	≤ 100	No guideline	4.3	100%
Chloride	mg/L	No guideline	≤ 250	116	Not applicable
Chloroacetic acid	µg/L	≤ 150	No guideline	<3	100%
Chromium	mg/L	≤ 0.05	No guideline	0.0002	100%
Colour	HU	No guideline	≤ 15	<1	Not applicable
Copper	mg/L	≤ 2	≤ 1	0.0065	100%

<b>System: Barossa (supplying Gawler and surrounds)</b>	<b>Unit</b>	<b>National health guideline</b>	<b>National aesthetic guideline</b>	<b>Result (average)</b>	<b>Health compliance *</b>
Cyanide as CN	mg/L	≤ 0.08	No guideline	<0.05	100%
Dichloroacetic acid	µg/L	≤ 100	No guideline	8	100%
E. coli	cfu/100mL	0	No guideline	0	100%
Fluoride	mg/L	≤ 1.5	No guideline	0.7	100%
Hardness	mg/L	No guideline	≤ 200	119	Not applicable
Iodide	mg/L	≤ 0.5	No guideline	0.02	100%
Iron	mg/L	No guideline	≤ 0.3	0.0047	Not applicable
Lanthanum	mg/L	≤ 0.002	No guideline	<0.0001	100%
Lead	mg/L	≤ 0.01	No guideline	0.0002	100%
Magnesium	mg/L	No guideline	No guideline	13.7	Not applicable
Manganese	mg/L	≤ 0.5	≤ 0.1	< 0.001	100%
Mercury	mg/L	≤ 0.001	No guideline	0.00019	100%
Molybdenum	mg/L	≤ 0.05	No guideline	0.0002	100%
Nickel	mg/L	≤ 0.02	No guideline	0.0004	100%
Nitrate + nitrite as NO3	mg/L	≤ 50	No guideline	0.05	100%
Pentachlorophenol	µg/L	≤ 10	No guideline	<0.05	100%
pH	pH units	No guideline	6.5 - 8.5	7.3	Not applicable
Potassium	mg/L	No guideline	No guideline	4.33	Not applicable
Chlorine (free residual)	mg/L	≤ 5	≤ 0.6	0.4	100%
Chloramine (mono residual)	mg/L	≤ 5	No guideline	<0.1	100%
Chlorine (total residual)	mg/L	≤ 5	No guideline	0.5	100%
Selenium	mg/L	≤ 0.01	No guideline	<0.0001	100%
Silica - reactive	mg/L	No guideline	≤ 80	2.51	Not applicable
Silver	mg/L	≤ 0.1	No guideline	<0.00003	100%
Sodium	mg/L	No guideline	≤ 180	72.5	Not applicable
Sulphate	mg/L	No guideline	≤ 250	62.3	Not applicable
Total dissolved solids	mg/L	No guideline	≤ 600	348	Not applicable
Trichloroacetic acid	µg/L	≤ 100	No guideline	4	100%
Trihalomethanes (THMs)	µg/L	≤ 250	No guideline	121	100%
Turbidity	NTU	No guideline	≤ 5	<0.1	Not applicable
Uranium	mg/L	≤ 0.017	No guideline	<0.0001	100%
Zinc	mg/L	No guideline	≤ 3	0.0020	Not applicable
2 4 6 Trichlorophenol	µg/L	≤ 20	≤ 2	<0.1	100%
2 4 Dichlorophenol	µg/L	≤ 200	≤ 0.3	<0.1	100%
2 Chlorophenol	µg/L	≤ 300	≤ 0.1	<0.05	100%

<b>System: Barossa (supplying Gawler and surrounds)</b>	<b>Unit</b>	<b>National health guideline</b>	<b>National aesthetic guideline</b>	<b>Result (average)</b>	<b>Health compliance *</b>
Hardness - English Degrees	°e	No guideline	No guideline	<b>8.33</b>	No guideline
Hardness - French Degrees	°f	No guideline	No guideline	<b>11.9</b>	No guideline
Hardness - German Degrees	°dH	No guideline	No guideline	<b>6.66</b>	No guideline
Hardness - International	PPM or mg/L	No guideline	No guideline	<b>119</b>	No guideline

See our [helpful guide](#) to explain the various elements and components listed in this report.

\* While we aim for 100 per cent health compliance all the time, the ADWG recognises exceedances in test results can happen occasionally. Most health guidelines for chemicals are based on a lifetime of exposure, therefore even if the compliance figures in this report are less than 100 per cent, it does not mean your water is not safe to drink. An exceedance of the health guideline is immediately investigated and corrective action can be taken, in conjunction with SA Health. Extensive testing by our water quality scientists is done to confirm South Australia's drinking water is clean, good quality and safe to drink.

\* Prior to calculating compliance for health related chemicals, individual water sample test results are rounded to the same number of significant figures as the ADWG value (as prescribed in the ADWG and endorsed by SA Health).