

Drinking Water Quality Summary - April 2022

Shoalhaven Water provides safe and reliable drinking water to approximately 100,000 people in the Shoalhaven on a daily basis. The drinking water we supply is routinely tested throughout our water supply systems with analysis undertaken at independent NATA certified laboratories as per the 2011 Australian Drinking Water Guidelines (ADWG). This detailed water quality monitoring forms part of Shoalhaven Water's framework for the management of drinking water quality. Results are based on samples representative of water supplied to customers' taps. Results for microbiological and key physical/chemical parameters are summarised in the following:

Analyte	ADWG Guideline Health	ADWG Guideline Aesthetic	<	>	Units	Whole of Shoalhaven		Northern Shoalhaven Supply System (Bamarang)		Kangaroo Valley Supply System		Southern Shoalhaven Supply System		Flat Rock Supply System	
						Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance
<i>E. coli</i>	0	c		>0	MPN/100mL	0	100%	0	100%	0	100%	0	100%	0	100%
Aluminium	c	0.2		>0.2	mg/L	0.0583	100%	0.0600	100%	-	-	0.0400	100%	0.0450	100%
Arsenic	c	0.01		>0.01	mg/L	0.0008	100%	0.0010	100%	-	-	0.0010	100%	0.0008	100%
Cadmium	0.002	c		>0.002	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Calcium	10000	c		>10000	mg/L	21.9667	100%	24.4000	100%	-	-	23.4000	100%	21.6000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.9077	95.8%	0.8923	98%	1.1560	75.0%	0.9957	96%	1.0475	100%
Copper	2	1		>2	mg/L	0.0096	100%	0.0072	100%	-	-	0.0018	100%	0.0270	100%
Fluoride	1.5	c		>1.5	mg/L	0.8650	100%	1.0577	100%	0.8200	100%	1.0000	100%	1.0420	100%
Hardness	c	200		>200	mg/L	68.4167	100%	76.3000	100%	-	-	71.5000	100%	68.6000	100%
Iron	c	0.3		>0.3	mg/L	0.0318	100%	0.0381	100%	-	-	0.0200	100%	0.0300	100%
Lead	0.01	c		>0.01	mg/L	0.0002	100%	0.0002	100%	-	-	0.0001	100%	0.0003	100%
Magnesium	10000	c		>10000	mg/L	3.2950	100%	3.7400	100%	-	-	3.1700	100%	3.5600	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0157	100%	0.0169	100%	-	-	0.0099	100%	0.0187	100%
Mercury	0.001	c		>0.001	mg/L	0.0004	100%	0.0004	100%	-	-	0.0004	100%	0.0004	100%
Nickel	0.02	c		>0.02	mg/L	0.0004	100%	0.0004	100%	-	-	0.0002	100%	0.0004	100%
Nitrate (as NO ₃)	50	c		>50	mg/L	0.1248	100%	0.0519	100%	-	-	0.1733	100%	0.2240	100%
Nitrite (as NO ₂)	3	c		>3	mg/L	0.0163	100%	0.0119	100%	-	-	0.0200	100%	0.0230	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.8775	100%	7.9190	100%	8.0240	100%	7.9043	100%	7.7813	100%
Selenium	0.01	c		>0.01	mg/L	0.0035	100%	0.0035	100%	-	-	0.0035	100%	0.0035	100%
Silver	0.1	c		>0.1	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Sodium	c	180		>180	mg/L	9.8333	100%	10.0000	100%	-	-	10.0000	100%	10.5000	100%
Sulfate	500	250		>500	mg/L	18.0000	100%	19.0000	100%	-	-	18.0000	100%	19.0000	100%
TDS ²	c	600		>600	mg/L	111.5000	100%	116.5385	100%	-	-	111.6667	100%	103.6000	100%
True Colour	c	15		>15	HU	1.0000	100%	1.0000	100%	-	-	1.0000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.1490	100%	0.1794	100%	0.0720	100%	0.1907	100%	0.0888	100%
Uranium	0.017	c		>0.017	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Zinc	c	3		>3	mg/L	0.0133	100%	0.0100	100%	-	-	0.0100	100%	0.0200	100%

¹ Note that the Australian Drinking Water Guidelines (ADWG) specifies water quality standards that are considered safe for people to drink over an entire lifetime. Therefore compliance is based on a statistical measure of results rather than absolute figures.

² TDS = Total Dissolved Solids

³ Corrective action taken for *E. coli* exception and the repeat test result was compliant (all clear). Contact Shoalhaven Water for further information.

- Denotes that this analyte was not tested this month due to either the treatment plant being offline or the required frequency resulted in no sample required for this month.

c Health or Aesthetic limits have not been set by the ADWG.

+ Inadvertent omission

Australian Drinking Water Guidelines 2011:

<http://www.nhmrc.gov.au/guidelines/publications/eh52>