

Drinking Water Quality Summary - November 2021

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	0.1500	67%	0.0600	100%	-	-	0.1400	100%	0.2500	0%
Arsenic	c	0.01		>0.01	mg/L	0.0008	100%	0.0010	100%	-	-	0.0005	100%	0.0010	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	23.1667	100%	23.4000	100%	-	-	24.3000	100%	21.8000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.7383	83.3%	0.6942	85%	0.3250	66.7%	1.0765	95%	0.4067	50%
Copper	2	1		>2	mg/L	0.0069	100%	0.0052	100%	-	-	0.0023	100%	0.0151	100%
Fluoride	1.5	c		>1.5	mg/L	0.9800	100%	0.9973	100%	0.9800	100%	1.0133	100%	0.9625	100%
Hardness	c	200		>200	mg/L	71.2333	100%	76.6000	100%	-	-	64.5000	100%	72.6000	100%
Iron	c	0.3		>0.3	mg/L	0.0631	94%	0.0482	100%	-	-	0.0367	100%	0.1238	75%
Lead	0.01	c		>0.01	mg/L	0.0009	100%	0.0004	100%	-	-	0.0001	100%	0.0021	100%
Magnesium	10000	c		>10000	mg/L	3.2500	100%	4.4100	100%	-	-	0.9400	100%	4.4000	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0226	100%	0.0107	100%	-	-	0.0091	100%	0.0652	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	0.0007	100%	0.0005	100%	-	-	0.0002	100%	0.0013	100%
Nitrate (as NO ₃)	50	c		>50	mg/L	0.1012	100%	0.0625	100%	-	-	0.1717	100%	0.1550	100%
Nitrite (as NO ₂)	3	c		>3	mg/L	0.0156	100%	0.0141	100%	-	-	0.0200	100%	0.0163	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.9132	100%	7.9162	100%	7.7450	100%	7.9260	100%	8.0133	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	10.6667	100%	12.0000	100%	-	-	8.0000	100%	12.0000	100%
Sulfate	500	250		>500	mg/L	15.0000	100%	22.0000	100%	-	-	2.0000	100%	21.0000	100%
TDS ²	c	600		>600	mg/L	121.3889	100%	130.1818	100%	-	-	94.0000	100%	117.7500	100%
True Colour	c	15		>15	HU	0.6667	100%	0.5000	100%	-	-	0.5000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.2674	99%	0.2762	100%	0.1250	100%	0.3000	100%	0.2250	86%
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	0.0233	100%	0.0400	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>