

Drinking Water Quality Summary - January 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	0.0533	100%	0.0500	100%	-	-	0.0700	100%	0.0400	100%
Arsenic	c	0.01		>0.01	mg/L	0.0007	100%	0.0010	100%	-	-	0.0005	100%	0.0005	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	23.0000	100%	24.0000	100%	-	-	23.1000	100%	21.9000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.8305	93.7%	0.8358	95%	0.2775	50.0%	1.0738	100%	0.6529	100%
Copper	2	1		>2	mg/L	0.0155	100%	0.0086	100%	-	-	0.0093	100%	0.1170	100%
Fluoride	1.5	c		>1.5	mg/L	1.0265	100%	1.0358	100%	0.9500	100%	1.0433	100%	0.9400	100%
Hardness	c	200		>200	mg/L	70.1333	100%	75.5000	100%	-	-	64.2000	100%	70.7000	100%
Iron	c	0.3		>0.3	mg/L	0.0247	100%	0.0271	100%	-	-	0.0200	100%	0.0100	100%
Lead	0.01	c		>0.01	mg/L	0.0002	100%	0.0003	100%	-	-	0.0001	100%	0.0001	100%
Magnesium	10000	c		>10000	mg/L	3.0900	100%	3.7900	100%	-	-	1.5900	100%	3.8900	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0104	100%	0.0117	100%	-	-	0.0075	100%	0.0029	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	0.0002	100%	0.0002	100%	-	-	0.0002	100%	0.0002	100%
Nitrate (as NO ₃)	50	c		>50	mg/L	0.1063	100%	0.0571	100%	-	-	0.1717	100%	0.5000	100%
Nitrite (as NO ₂)	3	c		>3	mg/L	0.0134	100%	0.0088	100%	-	-	0.0200	100%	0.0500	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.6951	99%	7.6791	100%	7.1375	100%	7.9243	93%	7.6863	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	10.0000	100%	11.0000	100%	-	-	8.0000	100%	11.0000	100%
Sulfate	500	250		>500	mg/L	16.6667	100%	21.0000	100%	-	-	7.0000	100%	22.0000	100%
TDS ²	c	600		>600	mg/L	111.0625	100%	114.9167	100%	-	-	98.6667	100%	102.0000	100%
True Colour	c	15		>15	HU	0.8333	100%	0.5000	100%	-	-	1.0000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.3948	99%	0.4507	98.25%	0.0750	100%	0.1086	100%	0.6575	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	0.0633	100%	0.0700	100%	-	-	0.0600	100%	0.0600	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>