

## Drinking Water Quality Summary - December 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	0.0567	100%	0.0400	100%	-	-	0.0400	100%	0.0900	100%
Arsenic	c	0.01		>0.01	mg/L	0.0005	100%	0.0005	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	19.9667	100%	18.3000	100%	-	-	23.4000	100%	18.2000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.9409	98.1%	0.9197	100%	1.1233	100.0%	1.0786	100%	0.7700	75%
Copper	2	1		>2	mg/L	0.0163	100%	0.0160	100%	-	-	0.0045	100%	0.0660	100%
Fluoride	1.5	c		>1.5	mg/L	0.9400	100%	1.0286	100%	0.9400	100%	0.9500	100%	0.8900	100%
Hardness	c	200		>200	mg/L	65.8000	100%	63.0000	100%	-	-	72.2000	100%	62.2000	100%
Iron	c	0.3		>0.3	mg/L	0.0442	100%	0.0393	100%	-	-	0.0213	100%	0.1700	100%
Lead	0.01	c		>0.01	mg/L	0.0004	100%	0.0004	100%	-	-	0.0001	100%	0.0007	100%
Magnesium	10000	c		>10000	mg/L	3.8733	100%	4.2000	100%	-	-	3.3400	100%	4.0800	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0098	100%	0.0094	100%	-	-	0.0037	100%	0.0365	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%	0.0005	100%
Nitrate (as NO <sub>3</sub> )	50	c		>50	mg/L	0.1346	100%	0.0850	100%	-	-	0.1300	100%	0.5000	100%
Nitrite (as NO <sub>2</sub> )	3	c		>3	mg/L	0.0163	100%	0.0114	100%	-	-	0.0163	100%	0.0500	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.8815	100%	7.8979	100%	7.8200	100%	7.8414	100%	7.8375	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	12.0000	100%	12.0000	100%	-	-	12.0000	100%	12.0000	100%
Sulfate	500	250		>500	mg/L	19.3333	100%	21.0000	100%	-	-	17.0000	100%	20.0000	100%
TDS <sup>2</sup>	c	600		>600	mg/L	114.5000	100%	128.8571	100%	-	-	94.5000	100%	94.0000	100%
True Colour	c	15		>15	HU	0.5000	100%	0.5000	100%	-	-	0.5000	100%	0.5000	100%
Turbidity	c	5		>5	NTU	0.3840	100%	0.3910	100%	0.4333	100%	0.2643	100%	0.4875	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	0.0100	100%	0.0100	100%	-	-	0.0100	100%	0.0100	100%

<sup>1</sup> 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.

<sup>2</sup> TDS = Total Dissolved Solids

<sup>3</sup> 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>