

## Drinking Water Quality Summary - October 2020

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	0.0633	100%	0.0400	100%	-	-	0.0500	100%	0.1000	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	23.5333	100%	22.3000	100%	-	-	27.3000	100%	21.0000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	1.0909	98.5%	1.1494	100%	1.0350	100%	1.0050	93%	0.6500	100%
Copper	2	1		>2	mg/L	0.0095	100%	0.0087	100%	-	-	0.0028	100%	0.0440	100%
Fluoride	1.5	c		>1.5	mg/L	1.0125	100%	1.0210	100%	0.9600	100%	0.9950	100%	1.0500	100%
Hardness	c	200		>200	mg/L	69.7333	100%	70.4000	100%	-	-	71.8000	100%	67.0000	100%
Iron	c	0.3		>0.3	mg/L	0.0217	100%	0.0235	100%	-	-	0.0200	100%	0.0100	100%
Lead	0.01	c		>0.01	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0002	100%
Magnesium	10000	c		>10000	mg/L	2.6667	100%	3.5800	100%	-	-	0.8900	100%	3.5300	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0041	100%	0.0036	100%	-	-	0.0046	100%	0.0082	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 <sub>3</sub> )	50	c		>50	mg/L	0.2943	100%	0.2860	100%	-	-	0.1388	100%	1.0000	100%
Nitrite (as NO <sub>2</sub> )	3	c		>3	mg/L	0.0153	100%	0.0115	100%	-	-	0.0163	100%	0.0500	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.8683	100%	7.8358	100%	7.5950	100%	8.0100	100%	8.0000	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%	10.0000	100%	-	-	10.0000	100%	10.0000	100%
Sulfate	500	250		>500	mg/L	15.6667	100%	20.0000	100%	-	-	3.0000	100%	24.0000	100%
TDS <sup>2</sup>	c	600		>600	mg/L	114.1333	100%	117.3000	100%	-	-	109.5000	100%	101.0000	100%
True Colour	c	15		>15	HU	0.5000	100%	0.5000	100%	-	-	0.5000	100%	0.5000	100%
Turbidity	c	5		>5	NTU	0.0989	100%	0.1208	100%	0.0375	100%	0.0420	100%	0.1100	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	0.0533	100%	0.0500	100%	-	-	0.0600	100%	0.0500	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>