

## Drinking Water Quality Summary - April 2019

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%	0.0500	100%	-	-	0.0600	100%	0.0600	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	0.0003	100%	0.0003	100%	-	-	0.0003	100%	0.0003	100%
Calcium	10000	c		>10000	mg/L	22.2667	100%	21.3000	100%	-	-	21.9000	100%	23.6000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.6498	82.7%	0.6927	92.3%	1.0080	80.0%	0.4511	61.1%	0.5750	66.7%
Copper	2	1		>2	mg/L	0.0050	100%	0.0053	100%	0.0110	100%	0.0036	100%	0.0023	100%
Fluoride	1.5	c		>1.5	mg/L	0.9782	100%	0.9736	100%	1.0000	100%	0.9925	100%	0.9600	100%
Hardness	c	200		>200	mg/L	68.1667	100%	70.3000	100%	-	-	59.7000	100%	74.5000	100%
Iron	c	0.3		>0.3	mg/L	0.0274	100%	0.0293	100%	0.0250	100%	0.0238	100%	0.0225	100%
Lead	0.01	c		>0.01	mg/L	0.0010	100%	0.0010	100%	-	-	0.0010	100%	0.0010	100%
Magnesium	10000	c		>10000	mg/L	3.0533	100%	4.1500	100%	-	-	1.2200	100%	3.7900	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0097	100%	0.0113	100%	0.0005	100%	0.0070	100%	0.0085	100%
Mercury	0.001	c		>0.001	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Nickel	0.02	c		>0.02	mg/L	0.0050	100%	0.0050	100%	-	-	0.0050	100%	0.0050	100%
Nitrate (as NO <sub>3</sub> )	50	c		>50	mg/L	0.0914	100%	0.0507	100%	0.1600	100%	0.1363	100%	0.2525	100%
Nitrite (as NO <sub>2</sub> )	3	c		>3	mg/L	0.0114	100%	0.0082	100%	0.0050	100%	0.0163	100%	0.0275	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.7873	96.5%	7.7825	96.2%	7.3720	100%	7.9875	95.0%	7.5486	100%
Selenium	0.01	c		>0.01	mg/L	0.0010	100%	0.0010	100%	-	-	0.0010	100%	0.0010	100%
Silver	0.1	c		>0.1	mg/L	0.0010	100%	0.0010	100%	-	-	0.0010	100%	0.0010	100%
Sodium	c	180		>180	mg/L	10.6667	100%	11.0000	100%	-	-	10.0000	100%	11.0000	100%
Sulfate	500	250		>500	mg/L	15.3333	100%	21.0000	100%	-	-	5.0000	100%	20.0000	100%
TDS <sup>2</sup>	c	600		>600	mg/L	114.1905	100%	120.4286	100%	68.0000	100%	103.5000	100%	115.0000	100%
True Colour	c	15		>15	HU	0.5000	100%	0.5000	100%	-	-	0.5000	100%	0.5000	100%
Turbidity	c	5		>5	NTU	0.2759	100%	0.3453	100.00%	0.1900	100%	0.1225	100%	0.2500	100%
Uranium	0.017	c		>0.017	mg/L	0.0025	100%	0.0025	100.00%	-	-	0.0025	100%	0.0025	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