



## Drinking Water Quality Summary - May 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	0.0533	100%	0.0500	100%	-	-	0.0400	100%	0.0700	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	21.4333	100%	21.9000	100%	-	-	20.7000	100%	21.7000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.5343	80.0%	0.5421	84.6%	0.3975	50.0%	0.5131	61.5%	0.6033	100.0%
Copper	2	1		>2	mg/L	0.0109	100%	0.0045	100%	0.0330	100%	0.0025	100%	0.0298	100%
Fluoride	1.5	c		>1.5	mg/L	0.9165	100%	0.9345	100%	0.9100	100%	0.8300	100%	0.8833	100%
Hardness	c	200		>200	mg/L	65.8000	100%	70.2000	100%	-	-	57.0000	100%	70.2000	100%
Iron	c	0.3		>0.3	mg/L	0.0516	100%	0.0414	100%	0.0250	100%	0.0200	100%	0.1083	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	2.9833	100%	3.7600	100%	-	-	1.2900	100%	3.9000	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0212	100%	0.0205	100%	0.0005	100%	0.0070	100%	0.0350	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	0.1203	100%	0.0577	100%	0.2100	100%	0.5000	100%	0.1933	100%
Nitrite (as NO <sub>2</sub> )	3	c		>3	mg/L	0.0134	100%	0.0091	100%	0.0050	100%	0.0500	100%	0.0200	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.7974	93.6%	7.8321	92.5%	7.3850	100%	7.8529	92.9%	7.6600	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	11.6667	100%	11.0000	100%	-	-	13.0000	100%	11.0000	100%
Sulfate	500	250		>500	mg/L	14.0000	100%	19.0000	100%	-	-	3.0000	100%	20.0000	100%
TDS <sup>2</sup>	c	600		>600	mg/L	120.0625	100%	127.6364	100%	80.0000	100%	89.0000	100%	116.0000	100%
True Colour	c	15		>15	HU	0.6667	100%	0.5000	100%	-	-	1.0000	100%	0.5000	100%
Turbidity	c	5		>5	NTU	0.4321	100%	0.3708	100.00%	0.0500	100%	0.6893	100%	0.6000	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	0.0083	100%	0.0100	100%	-	-	0.0050	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