

Drinking Water Quality Summary - January 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%	0.0600	100%	-	-	0.0900	100%	0.0200	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	0.0003	100%	0.0003	100%	-	-	0.0003	100%	0.0003	100%
Calcium	10000	c		>10000	mg/L	20.8333	100%	20.4000	100%	-	-	22.2000	100%	19.9000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.4322	71.3%	0.4261	81.4%	0.8233	33.3%	0.3767	53.3%	0.4340	50.0%
Copper	2	1		>2	mg/L	0.0112	100%	0.0074	100%	-	-	0.0116	100%	0.0220	100%
Fluoride	1.5	c		>1.5	mg/L	0.9356	100%	0.9356	100%	1.0000	100%	0.9375	100%	0.9000	100%
Hardness	c	200		>200	mg/L	65.1333	100%	65.9000	100%	-	-	64.7000	100%	64.8000	100%
Iron	c	0.3		>0.3	mg/L	0.0413	94%	0.0550	89%	-	-	0.0263	100%	0.0200	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	3.1800	100%	3.6300	100%	-	-	2.2400	100%	3.6700	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0091	100%	0.0114	100%	-	-	0.0050	100%	0.0077	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 ₃)	50	c		>50	mg/L	0.1631	100%	0.0878	100%	-	-	0.1325	100%	0.4300	100%
Nitrite (as NO ₂)	3	c		>3	mg/L	0.0141	100%	0.0100	100%	-	-	0.0188	100%	0.0200	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.5571	98.9%	7.5557	100.0%	6.9900	100%	7.7550	93.8%	7.4318	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	11.3333	100%	11.0000	100%	-	-	12.0000	100%	11.0000	100%
Sulfate	500	250		>500	mg/L	15.0000	100%	16.0000	100%	-	-	10.0000	100%	19.0000	100%
TDS ²	c	600		>600	mg/L	121.4375	100%	125.3333	100%	-	-	124.2500	100%	106.0000	100%
True Colour	c	15		>15	HU	0.8333	100%	1.0000	100%	-	-	0.5000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.3594	100%	0.3908	100.00%	0.0333	100%	0.2031	100%	0.5045	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	0.0150	100%	0.0200	100%	-	-	0.0050	100%	0.0200	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