

Drinking Water Quality Summary - April 2018

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	0.000	100.0%	0.000	100.0%	0.000	100.0%	0.000	100.0%	0.000	100.0%
Aluminium	c	0.2		>0.2	mg/L	0.063	100.0%	0.070	100.0%	-	-	0.080	100.0%	0.040	100.0%
Arsenic	c	0.01		>0.01	mg/L	0.001	100.0%	0.001	100.0%	-	-	0.001	100.0%	0.001	100.0%
Cadmium	0.002	c		>0.002	mg/L	0.000	100.0%	0.000	100.0%	-	-	0.000	100.0%	0.000	100.0%
Calcium	10000	c		>10000	mg/L	22.900	100.0%	20.800	100.0%	-	-	27.100	100.0%	20.800	100.0%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.750	93.6%	0.764	96.2%	0.377	66.7%	0.836	86.7%	0.623	100.0%
Copper	2	1		>2	mg/L	0.010	100.0%	0.010	100.0%	0.005	100.0%	0.006	100.0%	0.017	100.0%
Fluoride	1.5	c		>1.5	mg/L	0.938	100.0%	0.940	100.0%	0.960	100.0%	0.887	100.0%	0.963	100.0%
Hardness	c	200		>200	mg/L	69.900	100.0%	68.700	100.0%	-	-	72.300	100.0%	68.700	100.0%
Iron	c	0.3		>0.3	mg/L	0.024	100.0%	0.025	100.0%	0.025	100.0%	0.020	100.0%	0.023	100.0%
Lead	0.01	c		>0.01	mg/L	0.001	100.0%	0.001	100.0%	-	-	0.001	100.0%	0.001	100.0%
Magnesium	10000	c		>10000	mg/L	3.087	100.0%	4.060	100.0%	-	-	1.120	100.0%	4.080	100.0%
Manganese	0.5	0.1		>0.5	mg/L	0.007	100.0%	0.009	100.0%	0.001	100.0%	0.004	100.0%	0.005	100.0%
Mercury	0.001	c		>0.001	mg/L	0.000	100.0%	0.000	100.0%	-	-	0.000	100.0%	0.000	100.0%
Nickel	0.02	c		>0.02	mg/L	0.005	100.0%	0.005	100.0%	-	-	0.005	100.0%	0.005	100.0%
Nitrate (as NO ₃)	50	c		>50	mg/L	0.084	100.0%	0.045	100.0%	0.060	100.0%	0.175	100.0%	0.175	100.0%
Nitrite (as NO ₂)	3	c		>3	mg/L	0.012	100.0%	0.008	100.0%	0.005	100.0%	0.020	100.0%	0.020	100.0%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.820	98.8%	7.775	98.1%	7.787	100.0%	8.001	100.0%	7.773	100.0%
Selenium	0.01	c		>0.01	mg/L	0.001	100.0%	0.001	100.0%	-	-	0.001	100.0%	0.001	100.0%
Silver	0.1	c		>0.1	mg/L	0.001	100.0%	0.001	100.0%	-	-	0.001	100.0%	0.001	100.0%
Sodium	c	180		>180	mg/L	12.000	100.0%	12.000	100.0%	-	-	12.000	100.0%	12.000	100.0%
Sulfate	500	250		>500	mg/L	12.333	100.0%	18.000	100.0%	-	-	2.000	100.0%	17.000	100.0%
TDS ²	c	600		>600	mg/L	112.050	100.0%	116.846	100.0%	76.000	100.0%	102.667	100.0%	112.667	100.0%
True Colour	c	15		>15	HU	2.000	100.0%	2.000	100.0%	-	-	1.000	100.0%	3.000	100.0%
Turbidity	c	5		>5	NTU	0.386	100.0%	0.370	100.0%	0.137	100.0%	0.344	100.0%	0.674	100.0%
Uranium	0.017	c		>0.017	mg/L	0.003	100.0%	0.003	100.0%	-	-	0.003	100.0%	0.003	100.0%
Zinc	c	3		>3	mg/L	0.018	100.0%	0.040	100.0%	-	-	0.010	100.0%	0.005	100.0%

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