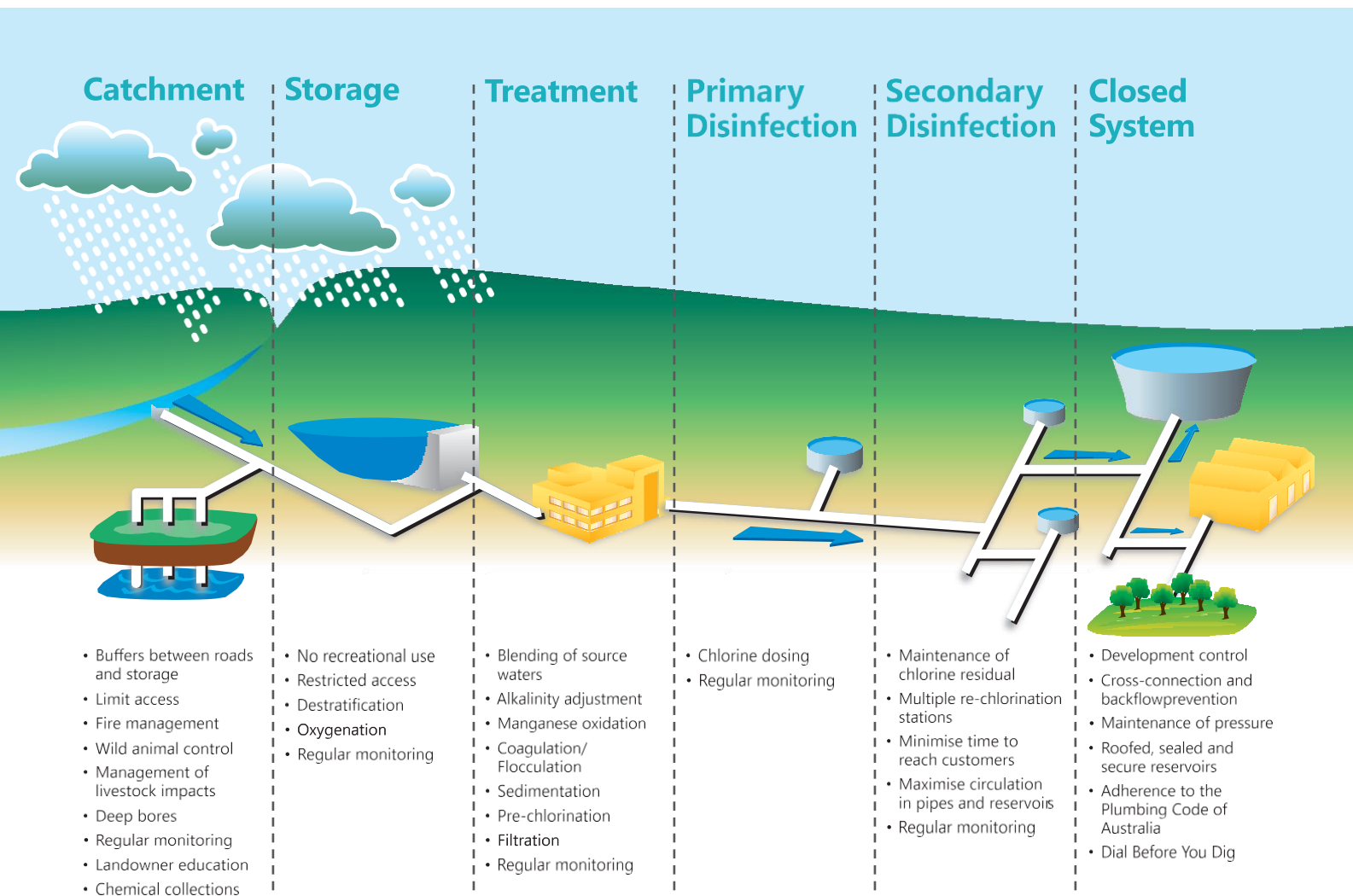


# Annual Summary of Drinking Water Quality

Central Coast Council

1 July 2022 to 30 June 2023

## Multi-Barrier approach to protecting drinking water quality



Our on-going drinking water quality management program is a holistic plan - starting at the catchment and ending at your tap. It involves a suite of capital works; maintenance, monitoring and operational strategies - along with communication initiatives - to protect, manage and maintain drinking water quality.

## Monitoring Drinking Water Quality

We monitor water quality at every stage of the supply system to ensure you receive drinking water that meets the requirements of the Australian Drinking Water Guidelines 2011. In addition to online monitoring of critical treatment processes, water samples are taken from the catchment, before and after water treatment plants, reservoirs, and the reticulation system before entering homes. All samples are tested by Council and/or independent laboratories accredited with the National Association of Testing Authorities.

The results presented in this report are from samples obtained from customer taps throughout the supply system to verify that the water supplied to homes and businesses meets the quality requirements of the Australian Drinking Water Guidelines 2011.

## What's Tested?

Your water is regularly tested for a range of physical, chemical and biological characteristics in accordance with the NSW Health Drinking Water Monitoring Program.

Event-specific and research monitoring is also undertaken as required. This report provides a summary of the key parameters regularly tested by Council and NSW Health.

## Performance Summary

From 1 July 2022 to 30 June 2023, your physical and chemical water quality complied with the Australian Drinking Water Guidelines 2011<sup>1</sup>. Two instances of elevated nickel and one of elevated lead at three different locations during the monitoring period were investigated and found to be due to metals coming from the tap when samples were collected. Drinking water supplied to customers was not impacted at the time of these events.

## Water Quality Test Results

### 1 July 2022 to 30 June 2023

#### Microbiological Sampling and Analysis

Parameter	Guideline Value	Guideline basis	Result	Number of samples
<i>E. coli</i>	100% of test results contain no <i>E. coli</i>	Health	100% of test results contain no <i>E. coli</i>	823

#### Physical Sampling and Analysis

Parameter	Units of Measure	Guideline Value	Guideline Basis	Average Result	95 <sup>th</sup> Percentile Result	Number of Samples
True Colour	HU	15	Aesthetic	1	3	23
Turbidity	NTU	5	Aesthetic	0.5	1.2	823
Total Dissolved Solids (TDS)	mg/L	600	Aesthetic	125	144	23
Total Hardness as CaCO <sub>3</sub>	mg/L	200	Aesthetic	60	82	24
Aluminium	mg/L	0.2	Aesthetic	0.04	0.10	24
Antimony	mg/L	0.003	Health	<0.0001	<0.0001	24
Arsenic	mg/L	0.01	Health	<0.001	<0.001	24
Barium	mg/L	2	Health	0.019	0.032	24
Boron	mg/L	4	Health	0.026	0.031	24
Cadmium	mg/L	0.002	Health	<0.0001	<0.0001	24
Calcium	mg/L	-	-	17	22	24
Chloride	mg/L	250	Aesthetic	45	71	23
Chromium	mg/L	0.05	Health	0.0015	0.006	24
Copper	mg/L	2 (1)	Health (Aesthetic)	0.02	0.04	24
Fluoride	mg/L	1.5	Health	1.0	1.1	23
Free Chlorine	mg/L	5	Health	1.26	1.88	823
Iodine	mg/L	0.5	Health	0.02	0.04	23
Iron	mg/L	0.3	Health	0.03	0.08	24
Lead	mg/L	0.01	Health	0.001	0.002	24
Magnesium	mg/L	-	-	4.4	6.7	24
Manganese	mg/L	0.5 (0.1)	Health (Aesthetic)	0.01	0.04	24
Mercury	mg/L	0.001	Health	<0.0008	<0.0008	24
Molybdenum	mg/L	0.05	Health	0.001	0.009	24
Nickel	mg/L	0.02	Health	0.004	0.0025	24
Nitrate	mg/L	50	Health	1.5	3.0	23
Nitrite	mg/L	3	Health	<0.1	<0.1	23
pH		6.5 - 8.5	Aesthetic	7.8	8.2	783
Selenium	mg/L	0.01	Health	<0.007	<0.007	24
Silver	mg/L	0.1	Health	<0.0002	<0.0002	24
Sodium	mg/L	180	Health	29	36	24
Sulfate	mg/L	500 (250)	Health (Aesthetic)	31	40	23
Uranium	mg/L	0.017	Health	<0.0001	<0.0001	24
Zinc	mg/L	3	Health	0.02	0.05	24

H.U = Hazen Units. N.T.U = Nephelometric Turbidity Units. mg/L = milligrams per litre (or parts per million). NA = not applicable.

<sup>1</sup>Australian Drinking Water Guidelines 2011. The Australian Drinking Water Guidelines 2011 recognise that occasionally throughout the year there may be health or aesthetic related test results above the Guidelines values, and that these results are not necessarily an immediate threat to health. As such, the Guidelines do not require a 100 per cent result in all cases, with the exception of *E. coli*. Each test result above the guideline value for *E. coli* is investigated and actions taken where necessary to minimise the risk of a recurrence. Disturbances and operational changes can result in occasional localised elevated levels of aesthetic water quality characteristics such as turbidity.