

A close-up photograph of a clear glass filled with water and ice cubes. A stream of water is being poured from a glass pitcher into the glass, creating bubbles and splashing. The background is a soft-focus green, suggesting an outdoor setting. The overall image conveys a sense of freshness and clean water.

ANNUAL DRINKING WATER QUALITY REPORT 2023

MID-WESTERN REGIONAL COUNCIL

OVERVIEW

Council's report card



Health

100% compliance with Australian Drinking Water Guidelines (ADWG) achieved.



Aesthetic

100% compliance with ADWG achieved for Mudgee and Rylstone, and 98% for Gulgong.



Events and improvements

The upgrade of the raw water pump station in Mudgee has been completed. This will allow for increased pumping capacity to the Mudgee Water Treatment Plant in order to cater for predicted population increase.

Unlined cast iron mains in Gulgong are causing occasional clarity issues. Replacement of mains is progressing with around 13km replaced to date. Planning is under way to replace 1.4km of mains in 2024.

There was a cluster of discolored water complaints in Kandos during mid November. This incident was associated with construction works.



NSW Health Fluoride

Mudgee did not achieve NSW Health target value for Fluoride during 2023. Mudgee fluoride delivery system failed and is currently not operational due to unacceptable WHS risk to Operators. Scope, concept design

and technical specifications for a new system have been completed and received in January 2024.

Council will now seek NSW Health and Department of Climate Change,

Energy, the Environment and Water (DCCEEW) approvals to proceed to construction.

Gulgong and Rylstone fluoride delivery systems are operational.

Verification monitoring of distribution systems

Council is committed to providing the communities of Mudgee, Gulgong, Rylstone, Kandos, Charbon and Clandulla with safe, secure, reliable and high quality water. This annual report is produced to inform the community of the quality of the drinking water over the course of the year.



HEALTH MEASURES



E.coli

A gut bacterium. Used as an indicator of fresh faecal contamination of water.



Fluoride

Improves dental health.



Free chlorine

Disinfection of the water. At higher levels it can cause taste, odour and health issues.



Manganese

Occurs naturally in water. Concentrations over 0.5mg/L can cause health concerns.



AESTHETIC MEASURES



pH

Indication of how acidic/basic the water is. pH less than 6.5 may be corrosive. pH greater than 8.5 may cause scale and taste problems.



Turbidity

A measure of the relative clarity of the water. Turbidity is caused by particles suspended in the water.



Iron

Occurs naturally in water. High concentrations stain laundry and fittings.



60-200

Hardness

Caused by calcium and magnesium. 60-200mg/L indicates good quality water.



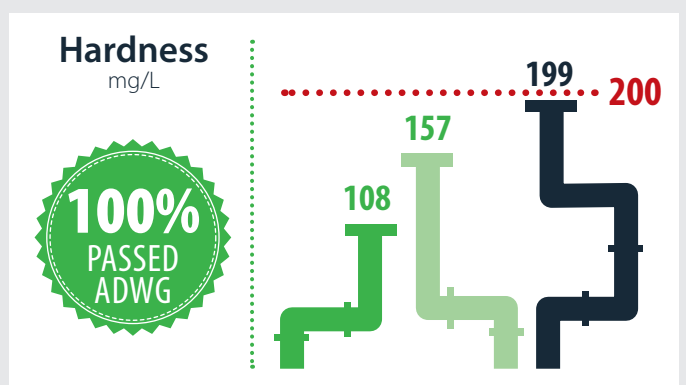
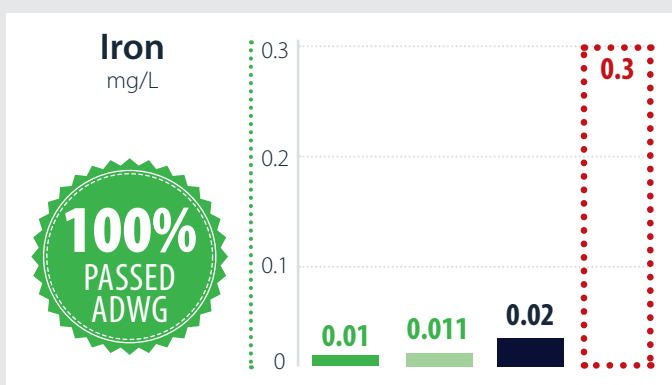
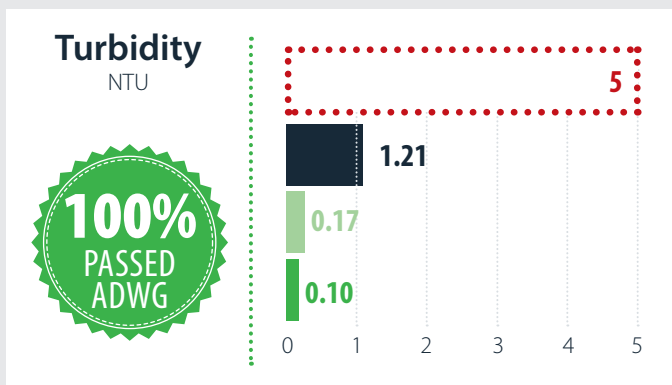
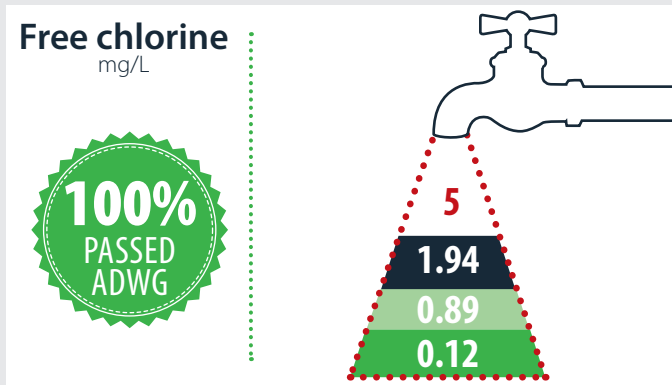
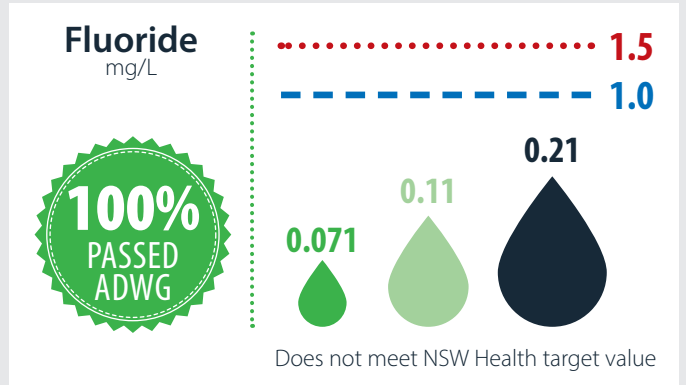
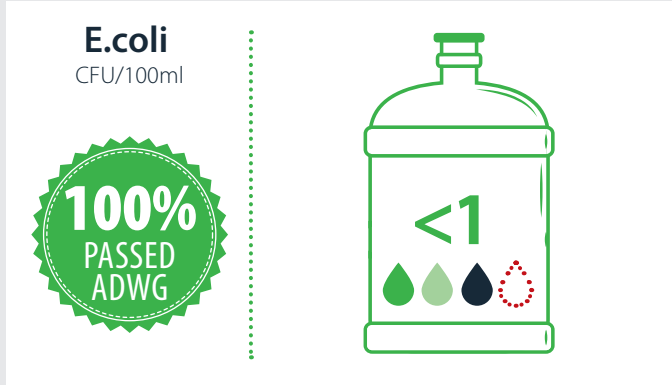
Manganese

Occurs naturally in water. Concentrations over 0.1mg/L can cause taste and staining.

DRINKING WATER RESULTS – MUDGEEE

..... Australian Drinking Water Guideline (ADWG) Value - - - NSW Health target value ■ Minimum ■ Median ■ Maximum

Note: Graphs not to scale

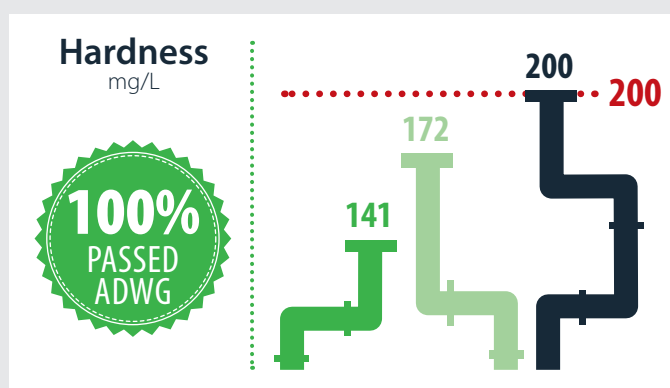
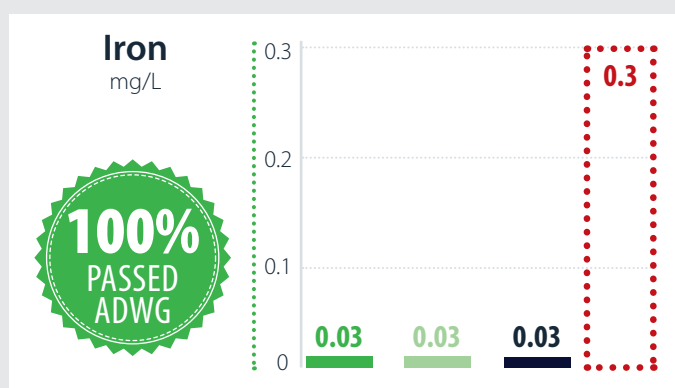
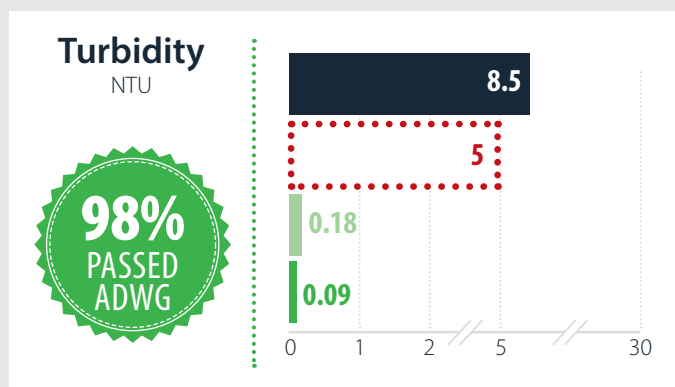
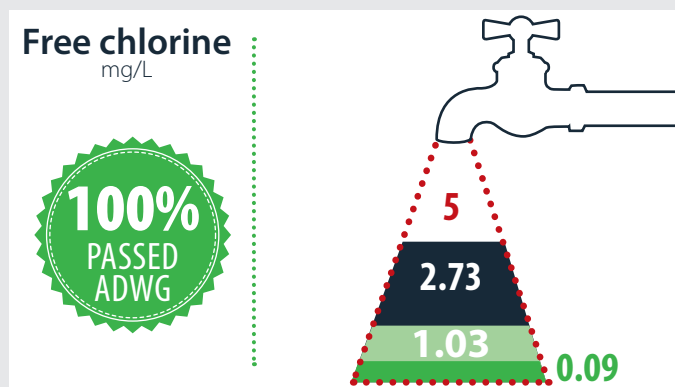
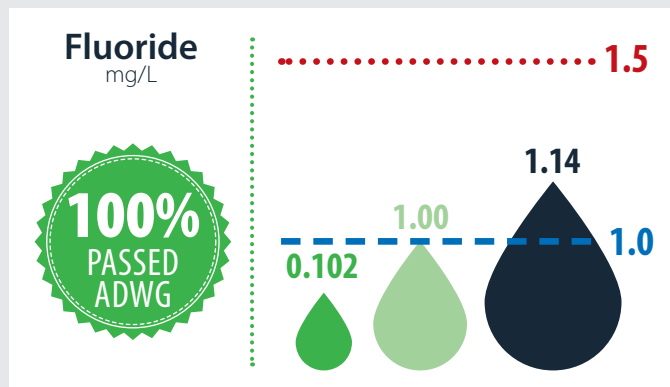
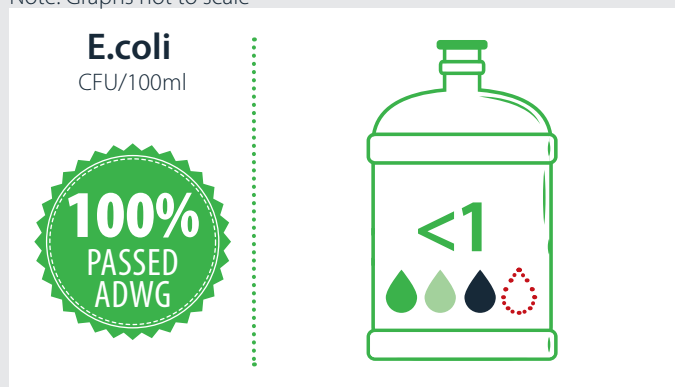


Source: Results from Weekly Verification monitoring – NSW Health Database

DRINKING WATER RESULTS – GULGONG

..... Australian Drinking Water Guideline (ADWG) Value - - - NSW Health target value ■ Minimum ■ Median ■ Maximum

Note: Graphs not to scale

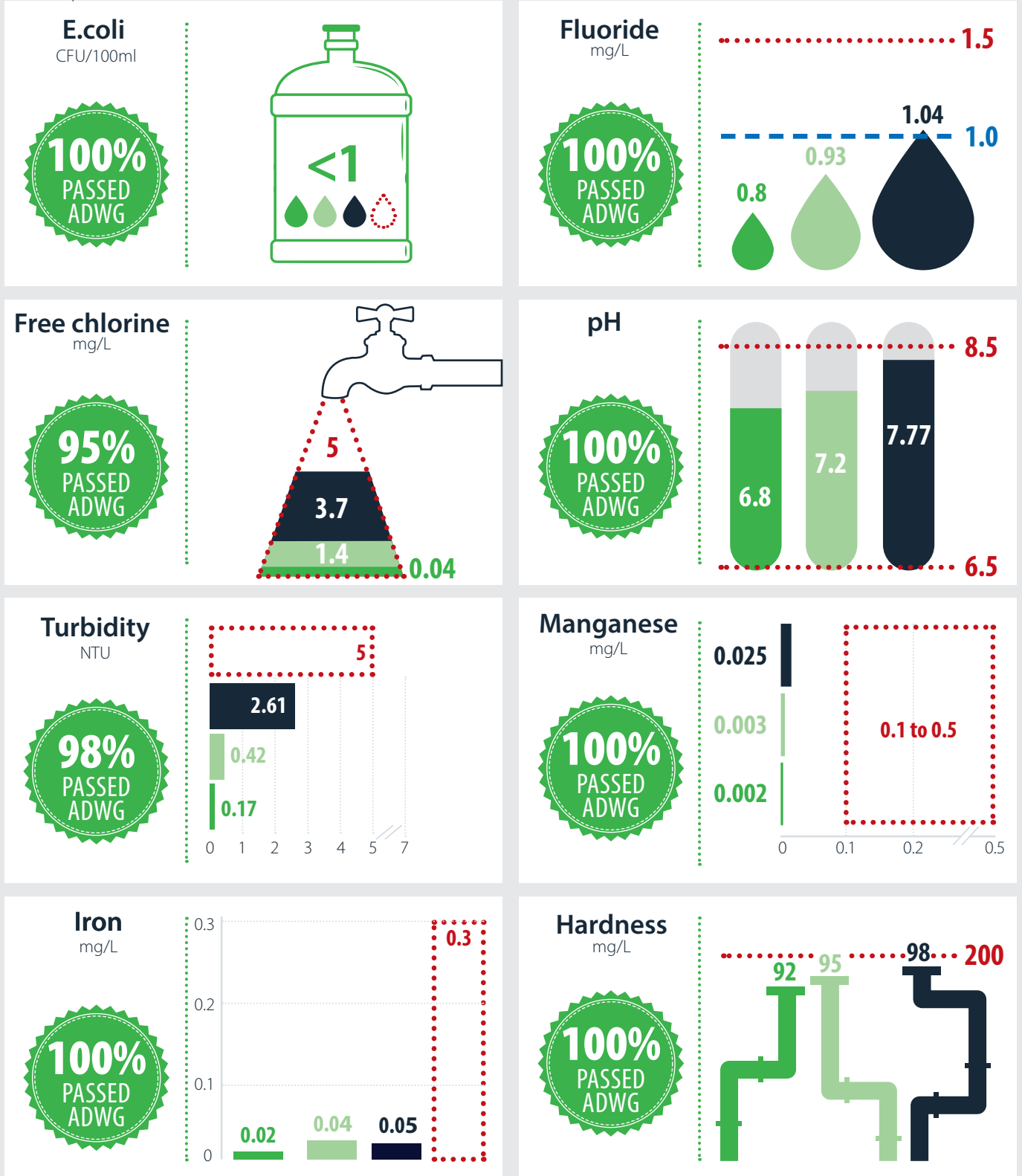


Source: Results from Weekly Verification monitoring – NSW Health Database

DRINKING WATER RESULTS – RYLSTONE

..... Australian Drinking Water Guideline (ADWG) Value
 --- NSW Health target value
 ■ Minimum
 ■ Median
 ■ Maximum

Note: Graphs not to scale



Source: Results from Weekly Verification monitoring – NSW Health Database