

Monthly NSW Health Testing Results Report

Program: Yass Water Treatment Plant
Date Collected: 03 October 2023

The Australian Drinking Water Guidelines (ADWG) include two types of measures:

- a **health-related guideline value**, which is the concentration or measure of a water quality characteristic that, based on present knowledge, does not result in any significant risk to the health of the consumer over a lifetime of consumption; and
- an **aesthetic guideline value**, which is the concentration or measure of a water quality characteristic that is associated with acceptability of water to the consumer; for example, appearance, taste, and odour.¹

Yass Valley Council reports both Guideline measures in the interests of transparent governance.

Table 1 - Health related test results

| Characteristic | Guideline Value | Units | Tested Value | Meeting health-related guideline values |
|----------------|-----------------|-------|--------------|---|
| Antimony | 0.003 | mg/L | 0.00010 | Yes |
| Arsenic | 0.01 | mg/L | 0.001 | Yes |
| Barium | 2 | mg/L | 0.0358 | Yes |
| Boron | 4 | mg/L | 0.0062 | Yes |
| Cadmium | 0.002 | mg/L | <0.0001 | Yes |
| Chromium | 0.05 | mg/L | 0.001 | Yes |
| Copper | 2 | mg/L | 0.006 | Yes |
| Fluoride | 1.50 | mg/L | 1.07 | Yes |
| Lead | 0.01 | mg/L | 0.0002 | Yes |
| Manganese | 0.5 | mg/L | 0.0018 | Yes |
| Mercury | 0.001 | mg/L | <0.0008 | Yes |
| Molybdenum | 0.05 | mg/L | 0.0003 | Yes |
| Nickel | 0.02 | mg/L | 0.0008 | Yes |
| Nitrate | 50 | mg/L | 2 | Yes |
| Nitrite | 3 | mg/L | <0.1 | Yes |
| Selenium | 0.01 | mg/L | <0.007 | Yes |
| Silver | 0.1 | mg/L | <0.0002 | Yes |
| Uranium | 0.017 | mg/L | 0.0007 | Yes |

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Table 2 - Aesthetic guideline test results

| Characteristic | Guideline Value | Units | Value | Meeting aesthetic-related guideline values |
|-------------------------------------|-----------------|-------------|--------|--|
| Aluminium | 0.20 | mg/L | 0.20 | Yes |
| Calcium | 10000 | mg/L | 35.3 | Yes |
| Chloride | 250 | mg/L | 144 | Yes |
| Iodine | 0.50 | mg/L | 0.06 | Yes |
| Iron | 0.3 | mg/L | <0.01 | Yes |
| Magnesium | 10000 | mg/L | 44.93 | Yes |
| Manganese | 0.1 | mg/L | 0.0018 | Yes |
| pH | 6.5 - 8.5 | | 8 | Yes |
| Sodium | 180 | mg/L | 111 | Yes |
| Sulfate | 250 | mg/L | 130 | Yes |
| Total Dissolved Solids (TDS) | 600 | mg/L | 475 | Yes |
| Total Hardness as CaCO ₃ | 200 | mg/L | 273.2 | No |
| True Colour | 15 | Hazen Units | 2 | Yes |
| Turbidity | 5 | NTU | 0.2 | Yes |
| Zinc | 3 | mg/L | 0.02 | Yes |

ⁱ Australian Drinking Water Guidelines 6 2011, Version 3.5 Updated August 2018, National Water Quality Management Strategy National Health and Medical Research Council Reference code: EH52