# Water Quality

A clean water supply is vital to the health and wellbeing of the Tenterfield Township. Water undergoes regular and thorough testing at many points of the treatment and distribution system. Water samples are sent to accredited laboratories to ensure residents have a safe and secure drinking water supply.

The dam stopping overtopping in March 2023 a dry period through summer saw the dam fall to below 80%. Some autumn rain topped the dam up.



Figure 1: View of Dam Wall Drought July 2019



Figure 1: View of Dam Wall October 2022

Occasionally you may notice your water is a little different to usual. Read below for our recommended water quality solutions.

* [**Discoloured water**](http://www.tr.qld.gov.au/environment-water-waste/water-supply-dams/dams-bores/13299-water-quality)

**Discoloured or cloudy water**

Discoloured or cloudy water is usually because of a change within your water pipes. An increase in water flow rate or swift change in direction of water flow in the pipes can stir up sediment. The sediment makes the water look discoloured but is harmless, and safe to drink.

**What to do**

To clear up the discolouration try running a garden tap closest to your water meter for around 2 minutes and then see if the water is clear when run into a glass. Remember to catch the running water in a bucket to use on your garden.

If the water doesn't clear, contact us via email Coucnil@tenterfield.nsw.gov.au  
  
**White water**

When air is trapped inside pressurised water pipes, it is converted to tiny air bubbles which gives water a white or milky appearance. This water is still safe to drink.

Air can enter the water supply causing the discolouration during repairs to the pipe network.

**What to do**

Catch water in an open container and it will become clear within a few minutes. The bubbles will clear from the bottom of the glass upward

* [**Hard water**](http://www.tr.qld.gov.au/environment-water-waste/water-supply-dams/dams-bores/13299-water-quality)

Hard water is caused by a higher than usual concentration of calcium and magnesium salts in water. Water hardness levels are monitored on a regular basis in conjunction with Laboratory Services and reported as mg/L (milligrams per litre) of calcium carbonate.

* [**Taste or smell of chlorine**](http://www.tr.qld.gov.au/environment-water-waste/water-supply-dams/dams-bores/13299-water-quality)

The water is safe to drink. The smell will disappear simply by leaving a jug of water uncovered in the fridge for a short period of time.

* [**'Dirty' tasting and smelly water**](http://www.tr.qld.gov.au/environment-water-waste/water-supply-dams/dams-bores/13299-water-quality)

The water is safe to drink. If there is an odour or 'dirt' in the water, flush the tap for approximately 1 minute before using. This will flush the pipes out.

# **Tenterfield Drinking Water Health Card**

Health Cards will be prepared monthly and will report how our drinking water meets the quality levels set by the Australian Drinking Water Guidelines and NSW Health requirement in key areas.

We test for a range of water quality characteristics, guided by the Australian Drinking Water Guidelines. The guidelines:

* set the standards for good quality drinking water
* outline good practices for operating a water supply system
* help protect public health
* tell us how drinking water should look and taste.

The characteristics are categorised as physical, chemical and microbial.

|  |  |  |
| --- | --- | --- |
| **Physical** | **Chemical** | **Microbial** |
| Turbidity | Free chlorine | Pathogens |
| Total dissolved solids | Inorganic chemicals (dissolved salts) | Cyanobacteria |
| Conductivity | Organic compounds |  |
| pH |  |  |
| Hardness |  |  |
| Temperature |  |  |
| Dissolved oxygen |  |  |
| Colour |  |  |
| Taste |  |  |
| Odour |  |  |

Our Health Card will be reporting on the following items - based on Australian Drinking Water Guidelines (ADWG) and NSW Health

|  |  |  |
| --- | --- | --- |
| **Characteristics** | **Unit of measure** | **ADWG levels** |
| *E. coli* | MPN/100 mL | not detected in 100 mL |
| turbidity | NTU | 0.0 to 0.5 |
| true colour | HU | 15 |
| pH | pH units | between 6.5 - 8.5 |
| Total dissolved solids | Mg/L | 600mg/L |
| fluoride | mg/L | 1.5\* |
| iron | mg/L | 0.3 |
| aluminium | mg/L | 0.2 |
| manganese | mg/L | 0.1 |

|  |  |
| --- | --- |
| **Measures** | |
| 1 milligram (mg) | 0.001 gram (g) |
| 1 gram (g) | 1000 milligrams (mg) |
| 1 kilogram (kg) | 1000 grams (g) |
| 1 Litre (L) | 1000 millilitres (mL) |
| 1 millilitre (mL) | 0.001 Litres (L) |
| NTU | Nephelometric Turbidity Units |
| HU | Hazen Units  (also referred to as TCU (True Colour Units) |
| MPN | Most Probable Number (MPN) is a method used to estimate the concentration of viable microorganisms in a sample |

# **Water Storage and Usage**

Graph 1 Dam % Levels and Consumption

Graph 2 New Data logger Dam % Graph

# **Feedback**

Residents are welcome to report any feedback or changes to their water appearance or quality by emailing [council@tenterfield.nsw.gov.au](mailto:council@tenterfield.nsw.gov.au)

# **Links:**

[Australian Drinking Water Guidelines](https://www.nhmrc.gov.au/about-us/publications/australian-drinking-water-guidelines#block-views-block-file-attachments-content-block-1)

[NSW Department of Industry supports local utilities (Councils) in providing water supply and sewerage services](https://www.industry.nsw.gov.au/water" \t "_blank)

**Internal Documents:**

The following documents can be found on Council’s Internet Page –

[Water Supply (includes Water Restrictions)](https://www.tenterfield.nsw.gov.au/services/water)

[Drought Management Plan](https://www.tenterfield.nsw.gov.au/your-council/council-documents/plans-reports/drought-management-plan)

[Water Conservation & Demand Management Plan](https://www.tenterfield.nsw.gov.au/infrastructure/water-supply-includes-water-restrictions/permanent-water-conservation-measures)