Tenterfield Drinking Water Health Card

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.

Good rains and continued rainfall in January to with flooding in October and November 2021 continuing into October 2022 that have seen the dam overtopping. As a result, we have seen a decrease in water quality and made the need for pumping water from the bores to be put on hold. The RO plant has been returned.



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

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

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

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

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

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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	

Drinking Water Health Card

Snapshot of Current Drinking Water Health – November 2022

pH - 7.6 coca cola has a pH of 1.5; milk is 6.5 to 6.7; anticid (eq gaviscon) range 9.0 - 11.0

Electrical Conductivity - 210 µS/cm - EC is an electircal way of measuring salts

Total Dissolved Solids (TDS) - 140 mg/L Total dissolved solids (TDS) consist of inorganic oxides and chlorides

TURBIDITY - 0.25 NTU

Iron - 0.014 mg/L

- Iron occurs commonly in soil and rocks as the oxide, sulfide and carbonate minerals. In water, it is present in oxidised forms groundwater. Taste threshold 0.3 mg/L. High concentrations stain laundry and fittings

Manganese - 0.0049 mg/L

at the tap. Manganese would not be a health consideration unless the concentration exceeded 0.5 mg/L.

Aluminium - 0.0054 mg/L

coagulants in water treatment. No health-based guideline value can be established currently. Aluminium is a component in a

Colour (Apparent)

size filter). In major Australian reticulated supplies true colour ranges from 1 HU to 25 HU for filtered or fully treated supplies, and from 1 HU to 85 HU for unfiltered supplies. eg Lake Ainsworth is an example of coloured water from tea trees

Fluride - 0.99 mg/L

Occurs naturally in some water from fluoride-containing rocks. Often added at up to 1 mg/L to protect against dental caries. Tenterfield has a naturally occurring fluride levels in our bore water of 2.2. we reduce these levels for public consumption

Escherichia coli (E. coli) (pathogenic) - <1 MPN/100mL

Drinking Water Health Card



Water Storage and Usage





Graph 2 New Data logger Dam % Graph

Feedback

Drinking Water Health Card

Residents are welcome to report any feedback or changes to their water appearance or quality by emailing <u>council@tenterfield.nsw.gov.au</u>

Links:

Australian Drinking Water Guidelines

NSW Department of Industry supports local utilities (Councils) in providing water supply and sewerage services

Internal Documents:

The following documents can be found on Council's Internet Page -

Water Supply (includes Water Restrictions)

Drought Management Plan

Water Conservation & Demand Management Plan