

Chlorination

Why is Chlorine added to the water?

Chlorine is used as a disinfectant, i.e. to kill harmful micro-organisms that may be present in the water supply and to prevent micro-organism regrowing in the distribution systems.

Chlorine is the most widely used disinfectant for drinking water in Australia. It is used in most Australian capital cities and many smaller water supplies. Chlorine is relatively inexpensive, easy to use, effective at low dose levels against a wide range of infectious micro-organisms, can protect water within the pipe system, and has a long history of safe use around the world.

Why can I taste or smell chlorine in my water?

To be sure that disinfection is maintained throughout the water mains, small amounts of chlorine are allowed to stay in the water supplied to your tap. This may result in a smell of chlorine when you turn your tap on or a slight taste of chlorine in the water. Chlorine will dissipate over time, so by keeping a jug of water in the fridge for a few hours, the chlorine taste can be eliminated.

What level of Chlorine is in drinking water supplied by Hunter Water?

The concentration of chlorine in drinking water supplied by Hunter Water ranges from 0 to about 1.2 mg/L. This is within the recommendations of the National Health and Medical Research Council (NHMRC) Australian Drinking Water Guidelines. Based on health considerations, the guideline for chlorine is that the chlorine residual should be less than 5 mg/L.

Is Chlorine safe?

Chlorine itself in drinking water, at concentrations below the health guidelines, is harmless to human health. However chlorine can react with organics in some water supply systems to form disinfection by-products, which may be harmful. In the water supplied by Hunter Water, however, the levels of disinfection by-products are well below the (NHMRC) Australian Drinking Water Guidelines guideline values.

More Information on Chlorine:

[NHMRC Guidelines Chlorine Fact Sheet](#)
[Cooperative Research Centre for Water Quality and Treatment Chlorine and Disinfection By-Products Fact Sheet](#)