## **Cooling Towers or Warm Water Systems**

## **High Risk Manufactured Water Systems**

A high risk manufactured water system means a cooling water system or a warm water system that is deemed to be at high risk of developing and transmitting *Legionella* bacteria, the cause of Legionellosis or Legionnaire's Disease.

## What is Legionella?

There are many different types of *Legionella* bacteria found in the environment. *Legionella pneumophila* is the most common type found in water, and causes Legionnaires' disease.

Legionella bacteria must be inhaled to cause illness. However, most people who are exposed to aerosols containing Legionella do not become ill. Legionella can infect the lungs, causing a disease known as legionellosis.

A **cooling water system** is a heat exchange system that consists of a heat-generating plant, a heat-rejection plant, interconnecting water reticulation pipework and associated pumps, valves and controls.

Examples include: **Cooling towers** and **evaporative condensers**.

A warm water system is a reticulated water system that distributes or recirculates warm water through the majority of its branches at a nominal temperature of 45°C by means of a temperature controlling device.

Under the *South Australian Public Health (Legionella) Regulations 2013* all high risk manufactured water systems must be registered with the local council within one month of installation or within one month of a change of property ownership. Failure to comply could result in penalties.



The following documents are required to register a High Risk Manufactured Water System with Council:

Cooling Water System Registration Form Warm Water System Registration Form

Click here Click here



Owners of cooling towers and warm water systems are issued with an annual notice from Council requiring that they engage in a competent third party auditor to inspect the system and undertake microbiological testing.

When Legionella is detected at specified concentrations (see below) in a water sample collected from a cooling water system or warm water system, the owner of the system must immediately shut down the system or decontaminate in accordance with a prescribed procedure/alternative decontamination procedure approved by the Minister. The owner must also notify Council by completing the relevant sections of the Notification of Legionella detection in a water sample.

## Specified concentrations:

- at or greater than 10cfu/ml in a warm water system
- at or greater than 1000cfu/ml in a cooling water system.

SA Health Decontamination of High Risk Manufactured Water Systems Information Sheet