

# Upgrading the tank facility with an automated chloramination unit to meet the current Water Corporation standard



TRILITY manufactured chlorine and ammonia dosing modules, as well as completing the civil site works, installation, commissioning and project management to upgrade the 58 Mile Tank facility



# Tailored modular solution to meet Water Corporation requirements. Building a pre-tested chloramination facility in a factory environment ensures quick and easy installation on site.

The Water Corporation determined that an extension to their network required a re-chloramination system to top-up the monochloramine disinfectant levels at points where the residuals had decayed below requirements. The 58 Mile Tank also required Calgon dosing to deal with the scaling effects induced by dosing ammonia.

In addition to designing, installing and commissioning a complete chloramination system, for which we are renowned, TRILITY also excavated the 742 hectare site and completed the civil works.

TRILITY's highly skilled technicians conducted a site-wide integration into the client's SCADA system including upgrading the communications, pump stations and remote water quality monitoring.

The site supplies water to a local town, so there was no room for error. The team worked to critical time lines to ensure continuity of the water supply to the local community.



## Who

Water Corporation of Western Australia is the principal supplier of water, wastewater and drainage services in Western Australia. Their services, projects and activities span over 2.6 million square kilometers and they manage an asset base of over \$37 billion.

## What

58 Mile Tank chloramination facility

The project included:

- Site clearance
- Access road construction
- Building slabs and trenchwork
- Pipework and manifold installation
- Chloramination dosing facility manufacture
- Sodium hypochlorite dosing facility
- Chlorine dosing system
- Calgon dosing skid
- Dosing building installation
- Testing and commissioning

## Where

58 Mile Tank - Shire of Dowerin Western Australia.

## Why

The Water Corporation of Western Australia had a requirement to upgrade the 58 Mile Tank facility to meet current Water Corporation Standards. The tank was disinfected by a flow paced manual chlorination unit that did not meet the Water Corporation's requirement. The current Water Corporation Standard requires a fully automated liquefied chlorine gas module. The site also required the addition of an ammonia dosing module.

## Snapshot

<b>Client</b>	Water Corporation of Western Australia
<b>Facilities</b>	Water tank disinfection
<b>Technology</b>	Liquefied chlorine gas, ammonia, Calgon and sodium hypochlorite dosing
<b>Capacity</b>	100L/s



**TRILITY**  
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