

# MAROM CREEK

## water treatment plant

Marom Creek Water Treatment Plant is located at Weis Lane in Alstonville, which draws water from Marom Creek for the township of Wardell, some properties in Alstonville and ends up at the Aboriginal Community of Cabbage tree island.

The Dam catchment Area is about 1800 hectares and the volume is around 420 megalitres. The water treatment plant produces around 350KL in Winter and around 550 KL in Summer per day.



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### PH CORRECTION AND COAGULATION

There are two Raw Water Pumps (duty/stand-by) on site, where the water is pumped from Marom Creek into a settling tank, dosed with Liquid Alum for coagulation and Liquid Caustic for PH adjustment.

The Water is retained in the settling tank for a detention time of around 3 days, prior to filtration where it is gravity fed from the settling tank into the filtration tank.



SETTLING TANK

### FILTRATION AND DISINFECTION

The Filtration Tank consists of sand, anthracite and rocks on the bottom of the tank, where the water is evenly distributed ready for treatment. The water filters through the sand and anthracite, taking out any impurities within the water supply. It then goes into a Clear Water Tank, where the filtered water is dosed with Sodium Hypochlorite for disinfection ready for use.

The Filtration Tank also has a blower and a separate reservoir just for the purpose of a backwash, usually done every two weeks, due to the filters clogging and the turbidity rising.



INSIDE FILTRATION TANK

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The dirty water overflows into two drains within the filtration tank and ends up in a sludge lagoon, where eventually the water will drain back into the ground and the waste products remain in the sludge lagoon.

## FLUORIDE TREATMENT

The Fluoridation Plant adds fluoride to the treated water with a dry feed system provided by Prominent Fluid Controls.

## TREATED WATER DISTRIBUTION

There are also two Clear Water Pumps (duty/stand-by), where the treated water is pumped to Whites Lane reservoir and then gravity fed to Wardell via Wardell Reservoir.

When Whites Lane reservoir calls for water, it comes from the clear water tank and works with a float system within the tank.

When the clear water tank requires water, the raw water pumps are activated and raw water is drawn from the dam.



FILTRATION TANK



RAW WATER PUMPS



CLEAR WATER TANK & CLEAR WATER PUMPS

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## CONTACT INFORMATION

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