

**CLIENT:**

Coonamble Shire Council

LOCATION:

Coonamble, NSW

SERVICE:

Water Treatment

CAPACITY:

5.5ML/d

CONTACT:

Mohsen Mobarghei

ISSUES:

Water hardness, iron and manganese

SOLUTIONS:

Safe Drinking Water- based on Australian Standard guidelines for township of Coonamble

BENEFITS:

Improve drinking water quality

PRODUCT:

Dosing system, filters, chlorine disinfection

COMPLETION DATE:

August 2013

Coonamble Water Treatment Plant

In August 2012 Aquatec Maxcon were awarded the design and construction of a 5.5 ML/d Water Treatment Plant at Coonamble, NSW.

Aquatec Maxcon were the main contractor on this project, constructing the water treatment plant (including civil, electrical, instrumentation and control works) at the existing 1 ML/d reservoir site, to treat the water sourced from three local bores with chlorination, prior to distribution to the township of Coonamble.

Main elements of the plant included:

- Bore water reticulation to WTP
- Two sedimentation lagoons and settled water pump station
- Two dual media gravity filters, concrete construction
- Filter backwash and air scour facilities
- Filtered water pump station
- Treated water reticulation to town water distribution
- Main plant building for chemicals, switch room, machinery room, office, laboratory, etc.

The water treatment involved the following processes:

- Coagulation and caustic soda pre-dosing
- Statiflo in-line static mixer
- Post chlorine disinfection
- Hydrochloric acid for pH adjustment.



LEFT: SEDIMENTATION LAGOONS UNDER CONSTRUCTION



RIGHT: MEDIA FILTER TANK, FILTER WATER TANK AND BACKWASH INLET PIPELINE