

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

Coonamble Shire

Council Aquatec Maxcon was the Main Contractor on this project constructing the water treatment

Location: plant (including civil, electrical, instrumentation and control works) at the existing 1 ML/d reservoir site. The project was needed to treat

Coonamble, NSW the water sourced from three local bores with chlorination prior to distribution to the township of Coonamble.

Value:

The main elements of the plant include:

AUD

\$4.0 M

Problems:

Water hardness, iron and manganese

- 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.

Solutions:

Safe Drinking Water - based on Australian Standard Guideline The water treatment involves the following processes:

Safe Drinking Water - based on Australian Standard Guideline

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

es for Other related projects:

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- Tumbarumba DAFF WTP (2011), 3 ML/d design capacity

- Mt Beauty (2010), 2.7 ML/d design capacity

Benefit

s:

- Coffs Harbour DAFF plant (2009), 42 ML/s design capacity

- Lockington DAFF WTP (2003), 12 L/s

- Corowa DAFF WTP (2002), 200 L/s

- Ararat DAFF WTP (2000), 200 L/s

- Halls Gap DAFF WTP (2000), 45 L/s

Drinking

water

Produc

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Dosing

systems

, filters,

chlorine

disinfect

ion

Comple

tion

Date:

August

2013

Contact

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Mark

Aitken -

Aquatec

Maxcon