



Avoca Water Treatment Plant

CLIENT:

Central Highlands Water

LOCATION:

Avoca, Victoria

SERVICE:

Wastewater Treatment

CAPACITY:

1 ML/d

CONTACT:

Mohsen Mobarghei

ISSUES:

Plant Upgrade for township

SOLUTIONS:

Containerised RO system

BENEFITS:

Reliable supply of town water

PRODUCT:

Lamellae Membranes

COMPLETION DATE:

01/12/2010

Aquatec Maxcon provided a design and construct solution for the Avoca Water Treatment Plant (WTP) project.

The upgraded Avoca WTP consists of the following main elements:

- Powder activated carbon dosing (existing equipment)
- Pre caustic soda dosing (pH/alkalinity adjustment, if required)
- Pre chlorine dosing (Fe oxidation, if required)
- Alum dosing (coagulation)
- Flash mixing chamber
- Flocculation chamber
- Lamella type clarifier
- Pressure sand filters, self backwashing (existing equipment)
- Filtered water pump tank (existing equipment)
- Post filtration ammonia dosing
- Filtered water tank, 150 m³
- Salt reduction plant and associated ancillary and chemical dosing equipment
- Permeate tank
- Post ammonia dosing (chloramination disinfection)
- Post chlorine dosing (chloramination disinfection)
- Post caustic soda dosing (pH)
- Clear water storage, 5 ML (existing system)
- Waste water handling, sludge drying lagoons and supernatant return equipment (existing equipment)

Aquatec Maxcon provided a high rate lamellae system; a containerised RO system to treat a blend of bore and surface waters to ensure that target water quality parameters were met.

