

Casterton Lamella Clarifier Upgrade

FILTEC
Making Water Safer

Casterton, Victoria

Project Snapshot



Client: Wannon Water



Capacity: 270 m³/hr



Technology: Lamella Plate Clarification, Sludge Removal, Instrumentation, PLC/SCADA Integration



Source Water: Groundwater



Completion: 2016

Project Outcomes

- ✓ 270 m³/hr clarification capacity
- ✓ In-house process and mechanical design
- ✓ Integrated sludge removal and process pipework
- ✓ New monitoring and control instrumentation
- ✓ Full PLC and SCADA integration

Treating Iron and Manganese in Groundwater

Groundwater from the Bridgewater Formation Aquifer contains naturally occurring iron and manganese, requiring oxidation, coagulation, flocculation, clarification and filtration before distribution.

Wannon Water engaged FILTEC as main contractor to deliver a new lamella plate clarifier and associated works at Casterton Water Treatment Plant. FILTEC completed the process and mechanical design in-house, with mechanical fabrication and installation undertaken by its specialist team.

The scope incorporated the lamella clarifier, sludge removal equipment, process pipework, valves and connections to the plant's inlet, outlet, overflow and sludge systems. FILTEC also coordinated reinforced concrete works, walkways, site access, instrumentation, electrical works and PLC/SCADA integration.

The project was tested and commissioned, with operation and maintenance manuals and as-constructed drawings provided at handover.

