

South East Queensland Correctional Facility - (Gatton).

Water Treatment Solution Profile



Purpose of installation

WJP Solutions was selected as the design and construct contractor to provide a sewage treatment plant for stage one of the South-East Queensland correctional precinct development near Gatton in QLD.

The plant delivers class A+ water for re-use within the precinct and allows for future expansion to include other adjacent facilities.

The wastewater treatment plant is designed with an advanced treatment process and has much of the plant's equipment housed in containers.

WJP Solutions' role

WJP Solutions worked closely with the clients advisors and builder to provide engineering services, on and off-site construction, installation, commissioning and validation of the plant, which it now operates.

Technical specifications

Stand alone decentralised plant

System design capacity - 78,000 litres per day

Principal elements of the treatment process:

- Inlet works / screening system (concrete structure)
- Vortex grit removal system and grit classifier
- Off-line underground storage tanks
- Pump Well (concrete in ground)
- Balance tank (FRP)
- Bio-reactor aerobic and anoxic tanks (FRP)
- Nutrient removal system
- Membrane operating system (stainless-steel)
- Main treatment plant housed in shipping containers
- UV system
- Chlorine disinfection system
- Reverse osmosis (for salinity control)
- Dosing systems
- Automated sludge dewatering system – housed in free standing steel shed
- Treated water storage tank/s (concrete tanks)
- Full PLC / SCADA automation system inc. remote monitoring and BA interface



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