

Burpengary Sewage Treatment Plant. - QLD

Water Treatment Solution Profile



Purpose of installation

Unity Water (Formerly Moreton Bay City Council) are responsible for managing the sewerage facilities to service the 15,000 residents of Burpengary in Queensland. The town's existing sewerage treatment plant was upgraded to accommodate larger flows and provide the capability for recycled water use.

Use for treated water

Treated water is distributed to the township for industrial re-use applications.

WJP Solutions' role

WJPS worked in conjunction with the clients own personnel, and other consultants and suppliers to ensure that the system is designed and installed to be fully integrated with the other components of the plant and their operating systems.

Technical specifications

Component of Municipal Plant – installed as part of major upgrade.

This design enables the plant to independently handle an average dry weather flow of 3 Mega-litres/day through both of the cells and a peak wet weather flow of 6 Mega-litres/day.

The existing sewerage treatment plant consists of three independent bioreactors employing a 5-stage Bardenpo process. Treated effluent flowed from each bioreactor through a chlorine contactor for disinfection, storage and discharge to an adjacent river under favourable tidal conditions.

WJP Solutions was contracted to integrate a membrane operation system into one of the existing bioreactors to facilitate a recycled water scheme. The other two bioreactors were upgraded as conventional BIO – P&N plants

Principal elements of the treatment process:

- membrane operating system (in-situ concrete)
- full PLC / SCADA automation system inc. BA interface



11 / 828 High Street,
Kew East Victoria 3102

t: +61 3 9854 0900
f: +61 3 9819 7979

www.wjpsolutions.com.au