

Drouin Wastewater Treatment Plant Inlet Upgrade

Date:

April 2015 – January 2016

Location:

Drouin, VIC

Client:

Gippsland Water

Project value:

\$2.5mil

Project Details:

The Drouin WWTP Inlet Works Upgrade was urgently required as the population growth within Drouin meant the existing lagoon-based treatment plant system struggled to maintain compliance with EPA standards. Works were required to ensure Gippsland Water maintained compliance with EPA licensing in regards to both odour and discharged effluent quality.

Jaydo were contracted for Stage 1 of the Drouin WWTP Inlet works, with scope of works comprising:

Demolition Works:

- Demolition and removal of existing steelwork, pipework, fittings, and redundant cabling from within aeration tank.
- Saw cutting of existing tank floor & supports, followed by removal of concrete for installation of new tank footings, pump sump and wet weather reliever pipeline

Civil Site Works:

- Installation of slabs for inlet screen and grit removal system.
- Construction of Inlet Tank and 22m Diam, 8m Deep Wet Weather Reliever (WWR) Tank, including all reinforcing, hydracorr, coatings, dowels, sealants, wall penetrations, and baffle wall.
- Valve Pit and associated pipework, thrust blocks & supports.
- Installation of Electromagnetic Flowmeter.
- Construction of 3 No. DN1500 Maintenance Holes
- Supply, fabricate and erect all hot dipped galvanized structural steel work, including steelwork such as handrails, stairs and platform
- Installation of 5 No. Flygt Pumps, 2 Tonne Electric Hoist & Trolley
- All required DICL Inlet, Overflow, Outlet & Dropper Pipework.



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Key Challenges:

Working within the existing operational treatment plant provided a key challenge throughout the project, requiring consistent project management and communication to ensure minimal disruption to operations.

The design of a complex formwork system proved challenging with construction required against the outer walls of the existing tank. This was successfully undertaken without compromising the structural integrity of the existing tank walls.



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