



PROJECT REFEREE

Hassan Khalfbadam
 Water Asset Planning
 Engineer
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CLIENT

Dubbo Regional Council

FB ROLE

Principal Contractor

VALUE

\$846k

LOCATION

Wellington, NSW

TIME FRAME

December 2019 – April
 2020

INDUSTRY

Treatment Plants

CAPABILITIES

Renewals Water &
 Wastewater

Wellington Sewage Treatment Plant Upgrade Works

Overview

Dubbo Regional Council required an upgrade to the existing Wellington Sewage Treatment Plant. The works were undertaken to improve the operation of the storm detention pond by providing a return pumping station.

A new effluent outfall pipeline direct to the Macquarie River is to be provided to avoid release of effluent to the adjacent Bushrangers Creek, which passes through land used for cattle grazing.

Works Undertaken

- Excavation for the pump station
- Construction of an inlet pipe DN200 DICL from the storm pond to the inground concrete pump well
- Supply and installation of a DN110 PN16 HDPE rising main from the pumping station to the existing inlet works
- Supply and installation of an elevated switchboard platform (above the flood level), a switchboard and associated electrical and control systems
- Pit on the existing outlet
- Excavation and installation of a 450mm gravity pipeline (PE 100 PN16 HDPE) to the Macquarie River via open cut excavation or a combination of open cut excavation and directional drilling to avoid deep excavation
- Construction of an outlet structure on the bank of the river

Highlights, Innovations and Key Risks

- Existing services – FB conducted a DBYD investigation, consult council records and pothole any services indicated in the area
- Deep excavations – FB ensured there were at least two methods of access and egress to the excavation in case of emergencies
- Working in an environmentally sensitive area – flora requiring protection near the works area would have a demarcated Tree Protection Zone established for the duration of the works to ensure no encroachment and potential damage to the area