



PROJECT REFEREE

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 Project Manager
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CLIENT

Department of Local
 Government, Racing
 and Multicultural Affairs

FB ROLE

Principal Contractor

VALUE

\$580k

LOCATION

Palm Island, QLD

TIME FRAME

September 2020 –
 current

INDUSTRY

Wastewater

CAPABILITIES

Treatment
 Infrastructure
 Renewals Water &
 Wastewater

Construction of Solomon Dam Raw Water Pipeline

Overview

The Solomon Dam Raw Water Pipeline upgrade project included the supply, delivery, construction, installation, testing and commissioning for a potable water system on Palm Island. Work will also include digging trenches along Farm Road between the Water Treatment Plant and Solomon Dam.

Works Undertaken

Construction and commissioning:

- Supply, delivery, construction, installation, testing and commissioning of approximately 420m of DN300 DICL PN20 raw water pipeline connecting Solomon Dam to the Water Treatment Plant Inlet Shed including new valves and fittings installation in the existing scour pit
- Supply and installation of temporary OD250 PE100 SDR21 PN8 above ground raw water feed pipework between the Francis Creek raw water main and the WTP including flow restriction, flow measurement devices and static chemical mixing connections (as currently installed in the WTP inlet shed)
- Measure, design, fabricate, supply and install new lockable aluminium hinged access cover for the scour pit. Weight of each cover must not exceed 20kg when lifting for opening or lowering for closing
- Supply and installation of all new above ground pipework in the WTP inlet shed including flow restriction, flow measurement devices and static chemical mixing instrumentation
- Replacement of the existing pipework from the WTP inlet shed to the treatment plant flocculation tank with approximately 45m of DN300 DICL PN20. The connection to the flocculation tank will be outside of the WTP shed to an OD160 PE100 pipe
- Supply of construction equipment, crantage, tools and gear to complete the works
- All civil earthworks, structural and concrete works

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- Electrical, instrumentation and controls installation within the WTP Inlet Shed
- Commissioning of new pipework and equipment within the WTP Inlet Shed

Highlights, Innovations and Key Risks

- Procurement delay – FB will ensure all materials have been delivered before mobilising
- Overhead powerlines – All appropriate precautions will be implemented as per local and state requirements. These are included in our safety policies and procedures
- Existing services – All existing assets will be located and identified before construction of the main.
- Hot Tap cut in – Experienced professionals will complete the Hot Tap works
- Commissioning – All testing of equipment has been completed and all QA complete
- Shutdown of WTP during cutovers and commissioning – FB to liaise with DLGRMA and PIASC Operations to coordinate shutdowns, working at night or weekends as required. Construction methodology to minimise shutdown durations