

FORTROSE STREET RISING MAIN

DEPTH, DIAMETER AND PRECISION IN BRISBANE

The Fortrose Street Rising Main was delivered as a varied scope addition to the Bulimba Sewer Trunk Main program for Queensland Urban Utilities. The pipe-jacked rising main presented significant challenges of depth, alignment, and ground conditions through a dense Brisbane corridor. The project was awarded the IPEAQ Innovation in Water Award in 2019.

LARGE-DIAMETER RCP FOR EXTREME-DEPTH INSTALLATION

In 2018, Empire supplied 550 metres of DN1500 RCP Jacking Pipe along with Intermediate Jacking Station Pipes. At depths of up to 46 metres, the pipe specification needed to perform under significant overburden and groundwater pressure. Interjack stations managed jacking forces across the full drive length.

"At those depths, every element of the pipe specification has to be right. The DN1500 RCP for Fortrose Street was selected for its capacity to handle extreme thrust loads," said Aaron Mackley, Director of Sales & Operations at Empire Infrastructure.

MICROTUNNELLING AT EXTREME DEPTH IN COMPLEX GROUND

The drive was executed using an Abergeldie-owned AVN1500TB slurry shield machine, equipped with a hyperbaric chamber for safe cutter access below the water table. Depths reached 46 metres, with sections of the alignment more than 30 metres below the groundwater table.

AN AWARD-WINNING PROJECT ON TECHNICAL PRECISION

Empire coordinated pipe supply to align with the JV's construction program, ensuring the DN1500 RCP and interjack string were available to match the tunnelling schedule.



PROJECT DETAILS

Location: Brisbane, QLD

Contractor: Abergeldie & Obayashi (JV)

Client: Queensland Urban Utilities

Product: CP&P RCP Jacking Pipe with Intermediate Jacking Station Pipes

Scope: 550m of DN1500 RCP Jacking Pipe


Stiffness: Class 4

Installation: Microtunnelling

The IPEAQ Innovation in Water Award confirms Empire's capability to supply large-diameter RCP for Australia's most technically demanding trenchless sewer projects.

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