

Ross River Dam to Douglas Water Treatment Plant



Townsville City Council has engaged **CivilPlus Constructions** to construct a 9.5km pipeline from Ross River Dam to the Douglas Water Treatment Plant. The purpose of this project is to duplicate the existing aging pipeline and enhance Townsville's water security. When complete this new pipeline is expected to provide 85% of the city's water supply.

Townsville City Council is investing \$60 million to duplicate the Ross River Dam to Douglas Water Treatment Plant (WTP) pipeline.

This key water infrastructure asset is essential in Townsville's water supply, providing approximately 85% of the city's water. The existing pipeline runs adjacent to Riverway Drive and crosses Ross River just prior to the treatment plant. It experienced an unexpected failure in December resulting in a temporary disruption to water supply.

The Ross River Dam to Douglas WTP Pipeline Duplication project will increase the resilience of this key asset, further enhancing Townsville's water security now and into the future.

The 9.5km duplicate pipeline will cross Ross River closer to the dam and run parallel to the river through the Department of Defence's Mount Stuart Training Area before connecting to the Douglas Water Treatment Plant.

This project is part of Council's \$177 million investment in water infrastructure and services in 2021/22, continuing our strong focus on water security and ensuring Townsville's water supply for decades to come to support future development of the city.

The pipe trench excavation and pipelaying is continuing, with approximately 800 metres of pipe laid at the end of October. A sheet pile coffer dam has been built and pipeline installation across the Ross River has commenced. A



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About 85 per cent of Townsville's water supply currently comes from the 9km 1220mm-diameter concrete pipeline between the dam and the treatment plant.

Council has broken the construction of the pipeline into two smaller packages of work to encourage local businesses to participate in the project.

Council is committed to supporting North Queensland businesses. By using local businesses as much as possible we are able to provide an economic boost to the community and help grow the capacity of the businesses while enhancing our water security.

The Council's 2021/22 Budget included \$177 million in water infrastructure and services.

Council is committed to enhancing the city's water security as Townsville's population continues to grow. This is a generational investment into the water infrastructure that our city needs.

controlled blast of a section of buried rock is scheduled to occur on 18 November 2022. Concrete pours have commenced and will be conducted at regular intervals in the upcoming months.

Contract Awarded for Water Pipeline Duplication Pipe and Fittings

Townsville City Council has awarded the contract to supply and deliver the pipe and fittings for its project to duplicate the pipeline supplying water from the Ross River Dam to the Douglas Water Treatment Plant.

The contract awarded to Steel Mains will enable construction to start which will enhance Townsville's water security. The duplicate pipeline will cross Ross River close to the dam and run alongside the river through the Department of Defence's Mount Stuart Training Area before connecting to the Douglas Water Treatment Plant, enhancing the city's water security.

Project Features:

- 9.5km of 1290OD steel pipe
- Pipeline crossing under the Ross River
- Installation of ancillary structures and services including: - Scour valves - Air valves - Sluice valves - Flowmeters - Manhole access pits - Dosing pits
- Hydrostatic testing of new pipeline
- Cutover from existing pipeline to new pipeline

A large, modern drilling rig is shown in a dark, industrial setting. The rig is white and black with a large red star logo on its side. The background is dark with a pattern of small red dots. The text 'More Innovation. Less Waste.' is written in large white letters, and 'That's IMPACT!' is written in large white letters on a red background at the bottom.

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Easy Reach	Concrete Pumping
Environmental Engineering Sales Australia (EESA)	Gabion Installation subcontractor
Evolution Traffic Control	Traffic Control Services
Focus Earthworks	Plant Wet Hire
Geofabrics	Geotextile Supply
GJCM Survey	Survey
Golder	Professional Engineering Services – Geotechnical
Hands on Wildlife	Fauna Spotter Catcher
Hannabull	Hydrovac Services
Hastings Deering	Plant Hire and Servicing
HAVAC	Hydrovac Services
Humes	Precast Concrete Supply
Impact Drill and Blasting	Drilling and Blasting Services
JKD Excavations	Plant Wet Hire
Kennards Hire	Equipment hire
LJ's Technical Services	NDT Weld Testing
Lyndon's	Concrete Consumables Supply
Metalrig	Crane Hire
Professional Pump Services	Flowmeter Supply
RMD Townsville	Concrete Consumables Supply

Rojo Civil	Plant Wet Hire
Soil Engineering Services	Construction Materials Testing
Specfast	Fastener Supply
Stradacon Penna	Quarry materials
Top Gear Pumping	Concrete Pumping
Townsville Scaffold	Scaffolding Services
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Turbo Excavations	Plant Wet Hire
Woodfield Engineering	Metal Fabrication Services

Douglas Water Treatment Plant

Douglas Water Treatment Plant Project involves the addition of a new pipeline connecting the Douglas lines and Mt Louisa lines directly after the pump stations.

This will allow one pump station to be taken offline without interrupting the water supply to Townsville residents.

Subcontractors and Suppliers

- Hannabull Hydro
- LJ's Technical Services
- Soil Engineering Services
- TICS Group
- Golder
- Woodfield Engineering
- ARC
- Boral Concrete
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