

Lance Creek Water Connection

Date:

July 2017 – June 2018

Location:

Korumburra, VIC

Client:

South Gippsland Water

Project value:

\$11.6mil

Project Details:

The Lance Creek Water Connection project enables the transfer of potable water from the Lance Creek Reservoir and Water treatment plant to the existing Korumburra and Poowong Water Treatment plant sites. This project provides security of water supply to the South Gippsland northern and southern regions with a supplementary supply from the Melbourne Water supply grid. South Gippsland Water (SGW) awarded Jaydo Construction all three water pipeline installation contracts, totally 30.5km of pipeline.

The key scope of works included:

LCWC - Contract 17

- 8.8km of DN225 HDPE Pipeline
- 5 No. Trenchless Sections including a 230m bore across Little Bass Reservoir spillway

LCWC – Contract 18

- 9.7km of DN500 MSCL Pipeline
- 1.6km of DN560 HDPE Pipeline
- 1.4km of DN500 HDPE
- 13 No. Trenchless Sections

LCWC – Contract 19

- 9km of DN560 HDPE Pipeline
- 9 No. Trenchless Sections including South Gippsland Highway and VicTrack crossings

Community Engagement:

As majority of the construction corridor was located within private property, consistent communication and consultation with each property owner was paramount to the project's success. JAYDO worked closely with each land owner impacted by the pipeline, to ensure: -

- The construction corridor was appropriately fenced to protect cattle and property;
- The construction works were undertaken as efficiently as possible within private property;
- Reinstatement of pasture and paddocks were in accordance with landowners' specifications.

Value for Money:

Jaydo were able to install the pipeline within budget and ahead of time. This allowed South Gippsland Water to connect the pipeline to each of the new water transfer pump stations as soon as the new infrastructure was available.



JAYDO CONSTRUCTION

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Jaydo's approach was to self-perform the open trench works (majority of the contracts) which enabled flexibility for project scope increases/decreases and alignment changes where the design conflicted with services. Jaydo were also able to save substantial costs for South Gippsland Water by suggesting changes to the trenchless design for the Foster Creek crossing to an open excavation design. Jaydo obtained all relevant approvals and liaised with stakeholders to ensure the most environmentally sustainable outcome was achieved.

Key Challenges:

The vast geographic span of the Lance Creek Water Connection Pipeline provided an array of challenges:

- Numerous landowners with varying land uses and requirements – methodologies and construction techniques were tailored to each property
- Steep terrain impacting access, onsite safety, construction activities, environmental factors and reinstatement risk
- Changing ground conditions including clays and differing strength rock materials
- Management of 50+ site personnel every day covering 5 to 6 working fronts across 30km distance
- Predetermined 4m wide pipeline easement restricted flexibility in construction
- Working within live waterways
- Extreme and unforgiving weather patterns of the South Gippsland region



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