

Coastal Waters Project (CWP)

Rio Tinto Iron Ore's Coastal Water supply project includes the construction of a new bore field and a 96km pipeline located in the lower Bungaroo Valley, 35 km's south east of Pannawonica. The pipeline system will supply 10 gegalitres of water per year to ensure sufficient supply to accommodate the expansion of annual iron ore production to the planned 360 million tonnes, while also providing the domestic water supply for Dampier and Wickham.

SMP Engineering (SMP) was engaged by principal contractor Monadelphous, to focus on the installation of MSCL pipe (Bell & Spigot joint) along a 37km section of the Transfer Pipeline. SMP provided two supervisors and a project crew of 22. SMP also provided four fully equipped mobile welding units each consisting of a flat bed truck fitted with two diesel welding generators (pictured below), light vehicles and dedicated tooling container. These mobile units allowed for close access to the pipeline and efficient movements between locations with minimal manual handling of tools and equipment.

SMP also supplied technical support as a part of the integrated management team, including 2 x QC Welding Inspectors, a Project Engineer and Superintendent to support Monadelphous on the CWP.

Project Key Facts

Project Owner

Rio Tinto Iron Ore

Project

Coastal Waters

Client

Monadelphous

Value

\$155M

SMP Scope

Project Crew of 22, Engineering QC, and Supervision support.

Project Scope and Outcomes

- + 26,950 man hours LTI Free
- + 4 x Fully equipped welding plants
- + Fast and efficient safe movements between locations
- + 37 kms of piping
- + 3,500+ Welds with zero failures
- + Cathodic protection
- + Holiday testing
- + Project Mgt of 60km of piping



Contact Us

Call the team at SMP Engineering for all your structural, mechanical and piping needs on 9412 8000. More project case studies can be viewed at www.smpeng.com.au

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