

PROJECT SHEET

Gippsland Water Factory Alliance Transfer System

Client: Gippsland Water
Location: Gippsland, Victoria

SCOPE OF WORKS

Currently the largest wastewater treatment system of its kind under construction in Australia, this alliance project involves PB, CH2MHILL and Transfield Services. Comdain is the sub-alliance partner responsible for the transfer distribution system including all pipelines, pump stations and storage facilities. Scope of works includes detailed design engineering, construction and commissioning of 8 sewage pump stations (20/ls up to 400l/s) and 90km of sewer rising mains (incl. MSCL, DICL, PVC & PE from DN100 up to DN675).

HIGHLIGHTS AND CHALLENGES

Comdain developed a competitive and creative procurement strategy for the transfer system works to ensure pipes were available on time in a tight market. Project involves complex stakeholder liaison and environmental management, and is the focus of strong state government attention and local community interest.

LESSONS LEARNED

- Creative alternatives to alignment and pipe design are critical to cost savings and delivering certainty.
- Early completion of survey/geotechnical studies is essential to support detailed design development and optioneering works.
- Successful community, landholder and key stakeholder management are critical to fast-tracking authority approvals processes and successful project outcomes.
- Early completion of contractual and administrative procedures in a manner that complements client systems allows parties to focus on important project outcomes and supports the smooth delivery of works.

BENEFITS OF MAJOR INNOVATIONS

- Comdain's knowledge in design innovation, alignment solutions and procurement strategy for the transfer system, which achieved cost savings of 30%.
- Detailed design and project planning in the early stages of the contract has achieved value for money in the TOC for the transfer system.
- Ongoing review processes ensures the smooth delivery of the works program encompassing the pipeline, pump stations and all ancillary works including mechanical, electrical and telemetry.

OVERALL PERFORMANCE

- **Cost:** Delivering below target cost. Target cost saving 30% below initial estimate.
- **Schedule:** Construction commenced on time and completed on target.
- **Safety:** Comdain achieved a safe and healthy working environment completing over 120,000 man hours during construction. Ensured that the local community and public are protected against risk of injury or illness. Training and supervision are effective in reinforcing and developing this commitment.
- **Stakeholder relations:** Community, landholder and key stakeholder coordination and communication has delivered fast-track authority approvals and successful project outcomes.



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