

TWICE THE ACHIEVEMENT

MAIN CONSTRUCTION COMPANY : Lend Lease
CLIENT : Whitsunday Regional Council
COMPLETION : October 2013

MECHANICAL : Water Infrastructure Group
SURVEYOR : RPS
ELECTRICAL : Pacific Services Group



blockwork and structural steel, the chemical buildings of Lysaght steel and ColourBond; and the control buildings are timber-framed structures.

“All the buildings and structures are cyclone-rated, with the ability to withstand a Category C cyclone and winds of 77.7m/second, which is the highest possible wind rating for Category C,” said Lend Lease Project Manager, David Fox.

“It is not as easy managing two sites as it is a single one, but we were able to transfer knowledge between the two through the lead engineer and superintendent, and apply learnings from one site to another.

“This \$45 Million project has delivered a successful outcome for the community, and is a value-for-money, high-quality installation.

“It also contributed substantially to the local economy in terms of jobs, with all the subcontractors on the project coming from the local area except

the mechanical and electrical subcontractors. That was a conscious part of the tender process, to provide local employment. Also, as this is a regional project, the majority of our (Lend Lease) staff on the project relocated to the area for the construction period, as did the mechanical and electrical contractors, which contributed back into the local economy.”

Lend Lease has completed numerous major infrastructure projects around the country, including Adelaide Desalination Plant, the Odour Management Program Alliance for Sydney Water, Hunter Treatment Alliance and Packages 2 and 3A of the Sydney Water North West Growth Centre project. Lend Lease also provides operation and maintenance services to Australian and New Zealand water companies.

For more information contact Lend Lease,
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The Bowen & Proserpine Water Treatment Plants involve the construction of a 16.5 megalitre plant for Bowen as well as a 14.5 megalitre plant for Proserpine.

Lend Lease delivered double the results with the Whitsundays Water Treatment Plant project, which comprised the simultaneous construction of two plants, one to service Bowen and one to service Proserpine, and a 3.5km pipeline for the raw water intake and treated water discharge at Proserpine. In addition, the Lend Lease team (formerly known as Abigroup Water) provided the detailed design for mechanical engineering elements, delivered the electrical works as a Design and Construct package, and contributed substantially to the external pipeline design.

Both plants can deliver between 14ML and 16ML of treated water a day, with capacity to expand for future needs. Lend Lease had a team of up to 14 on the project, including project manager, safety adviser, superintendent, supervisors, admin, and engineering staff including mechanical, structural, civil and electrical engineers.

Lend Lease added value engineering to the project through cost-saving initiatives including the use of steel panel construction for the treated water tanks instead of 3ML concrete tanks, and the shrinking of the site footprint for both plants to deliver savings and a reduced CO2 footprint.

The external pipeline route was also re-routed to minimise disruption to the main road of Proserpine, and also council access to their work depot. In terms of the plant technology, GHD were engaged to consult on the design, with savings offered by Lend Lease such as the clarifier being changed from a tube settler to a Lamella plate clarification process.

The works program comprised construction of four 70m x 30m sludge beds both 4m deep; bulk earthworks and asphalt for the main plants; construction of six water-retaining structures per site including concrete tanks. The main pump buildings were constructed of core-filled

SKILLS ON CALL FOR FNQ

On a busy site, completing scaffolding whilst in the thick of the action is a challenge. Bowen Industrial Hire (BIH) is up for the job, which they recently undertook at both the Bowen and Proserpine Waste Water Treatment Plants. BIH was engaged to supply, erect and dismantle the scaffolding for safe access, works platforms for laying blocks and roof fall protection.

“All scaffolding erection was managed by our site Supervisors and performed by a dedicated team of certified Scaffolders and Trades Assistants. The challenges the team faced were inclement weather and working in and around the numerous contractors involved,” said BIH Manager, Paul Hillery.

“Nonetheless, there were no injuries or incidents reported, which is credit to our team and to the site safety management of Abigroup, Barrier Reef Contracting and Water Infrastructure.”

BIH is a locally owned and operated firm employing approximately 30 personnel providing hire of manpower and equipment to mining industry and construction clients including Thiess, Xstrata, Leighton and John Holland. Their skills-base includes Scaffolders, Doggers, EWP Operators, Trade Assistants, HR Operators and Traffic Controllers.

BIH also erect, hire and service a comprehensive range of scaffolding, access equipment, temporary fencing, EWPs, Telescopic Handlers, tilt tray trucks, earth moving equipment, office amenities, Portalos and shipping containers; and can provide Traffic Control Management and signage.

For more information contact Bowen Industrial Hire, Lot 4 West Street, Bowen 4805, phone 07 4786 6566, fax 07 4786 6577, email: bowl@bowenindustrialhire.com.au