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Alton Downs Water Treatment Plant

The Alton Downs Water Treatment Plant (WTP) is a critical component of the Fitzroy to Gladstone Pipeline (FGP). The WTP will treat, store and pump water from the Fitzroy River along the pipeline to two new 50ML reservoirs being constructed in Aldoga, approximately 20km from Gladstone.

The WTP site is approximately 3km from the Laurel Bank intake structure. It will comprise of several buildings and structures including an office, control building, clarifier, dewatering building, chemical dosing area, reservoirs and pump stations. The WTP will process up to 100ML of water per day.

Authorised vehicle access will be via a new entry road off Ridgeland Road.

Water treatment process

Intake

Water is collected from the Fitzroy River via the Laurel Bank intake structure. The intake structure is designed with a very fine filter under the water which prevents fish, marine animals and other particles being drawn into it.

The water is then pumped approximately 3km to the WTP.

Treatment

At the WTP, water is passed through an ActiFlow System in the clarifier building. The ActiFlow System binds the larger clumps into what is known as sludge.

Once bound, the sludge sinks to the bottom of the tank and is removed by sand filters. The clean water is then pumped into a 10ML reservoir. A small amount of this water will be further treated and used onsite for washrooms, toilets and stored as emergency supply.

Sludge handling

Once the sludge is separated from the water, it passes into the dewatering building to undergo a process that further reduces the water content, making the sludge easier to remove from the site. The sludge will be removed from site by truck.

Water distribution

The water in the reservoirs will be treated with chlorine to reduce algae before continuing through the pipeline. The water will then travel approximately 105km to the reservoirs at Aldoga, before connecting to the existing (GAWB) network at Yarwun.

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About the project

The Fitzroy to Gladstone Pipeline is a \$983 million project to address the single source water supply risk from Awoonga Dam and enable long-term water security for GAWB's customers.

The 117km pipeline will run from the Lower Fitzroy River in Rockhampton and connect to Gladstone Area Water Board's existing water network at Yarwun. The pipeline comprises a water treatment plant, reservoirs and pumping stations at locations along its alignment including at Laurel Bank, Alton Downs and Aldoga.

The Fitzroy to Gladstone Pipeline will have the capacity to transport 30 gigalitres per annum from the Fitzroy River to Gladstone.

McConnell Dowell BMD Group Joint Venture (MBJV) has been contracted to construct the FGP, and once constructed, the FGP and associated infrastructure will continue to be owned and managed by GAWB.

Ongoing operations

The WTP will have up to five personnel on the premises during standard operating conditions and hours. Once operational, there will be regular monthly deliveries of water treatment supplies and daily removal of sludge.

The WTP will be accessed via Ridglands Road, Alton Downs.

Keeping you informed

We are committed to keeping you informed and will provide regular updates on the Fitzroy to Gladstone Pipeline.

For more information or to register for updates:

 gawb.qld.gov.au

 1800 668 118

 fgpcommunity@mbjv.com.au

