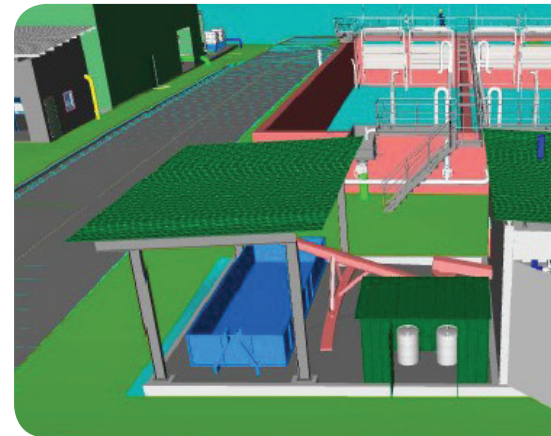


Mirani Water Recycling Facility 2019/20 Upgrade



Background

The Mirani Water Recycling Facility treats the sewage that is collected in the townships of Mirani and Marian.

The plant was constructed in 2002 for a population of 2000 people. In 2012, upgrade works were undertaken to increase the plant's capacity to cater to the growing population.

With the population currently just under 4000, the plant is now running at capacity.

The treated water is currently used for irrigation by a nearby cane farm and golf course.

Location

The Mirani Water Recycling Facility is located around 700

metres east of the Mirani township adjacent to the highway.

Important facts

The 2019/20 upgrade works will increase the treatment capacity and operability of the existing facility. This will service a population of 7000 residents with capacity to extend to 10,000.

In addition to improving the capacity of the facility, the upgrade will assist to improve the nutrient removal performance of the plant. Nutrients have potential harmful effects on local waterways and the Great Barrier Reef.

The project involves the construction of a new stand-alone biological activated sludge plant and the conversion of the existing Flow Balance Tank and Bioreactor

to a Modified Ludzack Ettinger configured aerobic digester, while utilising the existing Preliminary Treatment Area that was part of a 2014/15 upgrade.

Once complete, the plant will provide a higher level of treatment of irrigation water. It will provide recycled water for unrestricted irrigation of golf courses and cane farms that complies with the Department of Environment and Science (DES).

The 'unrestricted' status also allows council to share more recycled water to users in the future.

The project commenced in June 2019 and has an expected completion date of May 2020.