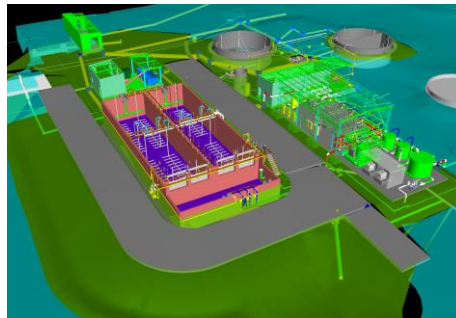


MIRANI WATER RECYCLING FACILITY UPGRADE



Project Synopsis

- Design, Construct & Commission
- Upgrading existing plant from 3,500EP to 7,000EP
- Provide Class A recycled water to customers
- Brownfields
- Procurement packages
- Dig, Lay & Backfill pipe, pits & conduits including GRP, PE, PVC, SS
- IDEA Tank – Semi-precast system
- UF
- UV
- Chemical Dosing
- Centrifuge
- Blowers
- GDD Thickener
- Generator
- Switchroom

Client: UGL/Mackay Regional Council (MRC)

Location: Mirani, QLD

Year: 2018-19

Value: \$14.3M

UGL Utilities & Resources were awarded the Mirani Water Recycled Facility (MWRf) Upgrade by Mackay Regional Council. The project involved the design, construction and commissioning of the new upgrade to cater for population growth in the area from 3,500EP to 7,000EP (with future upgrade allowance to 10,000EP).

Novel Group was engaged to project manage the design and construction of the MWRf Upgrade.

The project involved:

- Upgrading the existing plant from 3500EP to 7000EP
- Dig, lay & backfill underground pipes, pits and conduits in a brownfields environment with multiple type materials (PE, PVC, GRP, SS)
- Construction of new IDEA tank using semi-precast system
- Buildings for UF & UV, Thickener, Chemical dosing, Dewatering, Blowers & Switchroom
- Repurposing the existing tanks
- Installation of new equipment including UF membranes, UV, strainers, GDD thickener Chemical dosing skids, Blowers, Centrifuge, Weirs, Diffusers, pumps, mixers, generator, instrumentation and switchboards.