

**CLIENT:**

Townsville City Council

LOCATION:

Townsville, QLD

SERVICE:

Water Treatment

CAPACITY:

232 ML/d

CONTACT:

Mohsen Mobarghei

ISSUES:

Various treated water quality, capacity and process control issues

SOLUTIONS:

New chemical dosing systems, analysers, instrumentation and control measures

BENEFITS:

Improved chemical processes, stability of treated water to mains, treatment capacity, monitoring and control.

PRODUCT:

Chemical storage & dosing systems, analyser panels, pump stations and piping systems.

COMPLETION DATE:

September 2009

Douglas Water Treatment Plant, Phase 2

Aquatec Maxcon provided all mechanical and electrical / control works for the upgrade to Douglas WTP, Phase 2 Modules 1 – 4, comprising the following main elements:

- 140 tonne hydrated lime storage silo, dry feeding, slurry preparation and dosing system to four separate plant dosing points.
- Carbon dioxide storage, gas dissolution and solution dosing system.
- ACH coagulant bulk storage and dosing system.
- Polymer filter aid batching, solution preparation and dosing system.
- Service water pumping station and reticulation system.
- On-line water quality analyser panels and associated sample water reticulation systems.
- Filter upgrade works to Module 3 for change of operation to influent flow splitting plus constant level mode.
- Filter upgrade works to Module 4 including inlet channel flocculation mixers and backwash system pressure relief system.
- Process instrumentation.
- Electrical and control works.



(L) HYDRATED LIME SLURRY PUMPING SYSTEM AND (R) POLYMER BATCHING AND DOSING SYSTEM