

**CLIENT:**

Townsville City Council

LOCATION:

Townsville, QLD

SERVICE:

Water Treatment

CAPACITY:

80 ML/d

CONTACT:

Mohsen Mobarghei

ISSUES:

Filter media clogging and mudballing, filtered water quality, short run times, channelling during backwash.

SOLUTIONS:

Remove and replace filter media, condition and disinfect

BENEFITS:

Longer filter run times, improved filtered water quality, uniform backwash water distribution.

PRODUCT:

Filter sand to AWWA B100-01 specification plus gravel support layers

COMPLETION DATE:

December 2008

Douglas Water Treatment Plant, Phase 1

Aquatec Maxcon provided all materials and labour for the removal and replacement of filter media to Module # 1 and Module # 2 filter banks (total 32 filter cells), comprising the following main elements, for the Douglas Water Treatment Plant Upgrade, Phase 1.

- Isolation of filter bank and draining of filter cells.
- Dismantling of connecting pipework and clearing of top access to filter cells.
- Removal of existing filter media and gravel by use of vacuum sucker truck.
- Disposal of existing filter media and gravel.
- Flushing of existing filter floor channels and lateral system.
- Filter cell internal wall inspection and rendering works as required.
- Loading of new filter gravel support and filter sand layers.
- Rinsing, backwashing and surface scraping operations to condition the filter bed for service.
- Disinfection of filter bed according to AWWA C 653-03 guidelines.
- Return of filter cells to service and system commissioning.

