

Palm Island Water Treatment Plant Review

Completed 2014



GANDEN was engaged to assess the condition of the existing Palm Island water treatment plant and check its capacity for current and future loads. The plant was designed to treat 1.7ML per day but was producing water up to 2.54 ML per day. New subdivisions were being constructed on the island which would put further pressure on the sewage treatment plant with anticipated water demand of up to 3ML per day. The review provided upgrade options for addressing the increased flow demand and the following operational issues: -

- Cyanobacteria outbreaks at the water supply dams, compounded by the existing DAF not being operational;
- Rat holing in the slow filtration cells;
- Fluoride system not online; and
- The disinfection system being unreliable.

As part of the town water and sewerage infrastructure review, GANDEN also reviewed the water supply dams, water distribution network, sewage treatment plant and sewerage network.

Principal

Queensland Department of Aboriginal and Torres Strait Islander and Multicultural Affairs

GANDEN's Role

- Technical Reviewer

Work Undertaken

- Capacity assessment
- Condition assessment
- Review against the Australian Drinking Water Guidelines
- Costing for upgrade works