



# Mullumbimby Water Treatment Plant Upgrade

Mullumbimby, New South Wales, Australia

Mullumbimby is part of Byron Shire Council in northern NSW. The Mullumbimby community is proud of the water supply system built in 1940 with a unique engineering feature whereby the whole from river to customer's process is based on gravity flows.

HydroScience has completed an options report for the upgrade or replacement of the ageing treatment plant. Byron Shire Council subsequently commissioned HydroScience to prepare a concept design for upgrading the plant.

The challenges for this project were the steep and small site, listing half of the existing facilities as heritage and high iron and manganese in the raw water.

The project included assessment of the performance and condition of the existing treatment plant and evaluating process options. Sand filtration has been evaluated against membrane filtration as the proposed process for the upgraded plant.

Due to site limitation, four locations have been also evaluated for the upgraded treatment plant. The work will be the basis for the detailed design for the new plant.

## Project Overview

### Highlights

- ❖ Water treatment
- ❖ 5 ML/day
- ❖ High iron and manganese
- ❖ Comparison of sand filters and membrane technology

### Details

Completion Date: 2009

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