

## Project Data Sheet – Memcor MF Plant – Opononi WTP

### Project Overview

Design and Build project to Upgrade the existing Kaikohe WTP.

### Scope of works

Design, Build and Install MF plant to meet NZDWS 2005 upgraded to NZDWS 2008. Building and civil works by Fulton Hogan as our subcontractor. Including Design, Supply and Installation of,

- HAZOP
- Design Report
- MF Plant
- CIP systems and Neutralising systems
- MCC, PLC and SCADA ( Subcontractor used)
- Aeration systems
- Pipe work

### Design and Performance

Parameter	Design Influent	Design Treated Water	Actual
Flow	546m <sup>3</sup> /d expandable to 800m <sup>3</sup> /d	546m <sup>3</sup> /d expandable to 800m <sup>3</sup> /d	546m <sup>3</sup> /d expandable to 800 m <sup>3</sup> /d
TSS mg/l	Avg 5 Peak 200	0	0
Turbidity NTU	Avg 8 Peak 120	<0.1	<0.05
Colour	Avg40 Peak 120	<10	<5

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### Project Information

Client	Far North District Council
Project	Design Install WTP plant to NZDWS 2008
Quality	Executed under ISO9001 procedures
H&S	No LTI's or injuries recorded
Timely Completion	Variation of contract due to changes in the plant inlet configuration. Extension of time granted by the Engineer.
Completed	May 2009
Satisfaction	The plant continues to provide water that meets or exceeds the requirement of NZDWS 2008. Plant Meets Operating Cost targets.
Project Comments	Under instruction ended up managing the civil works under VO of the original contract. Plant inlet works need to be changed as at commissioning inlet pressures found to be 3 times that advised in the tender. Working with the Client and Engineer a solution was found to reuse a lot of the existing equipment and reconfigure this into the new design.

### Site Photos

