

Project Data Sheet – Memcor MF Plant – Milton WTP

Project Overview

Design and Build project for the new Milton WTP. Subcontractor to Fulton Hogan Civil South.

Scope of works

M & E Design, Build and Install MF plant to meet NZDWS 2005 upgraded to NZDWS 2008. Including Design, Supply and Installation of,

- HAZOP
- Design Report
- MF Plant
- CIP systems
- MCC, PLC and SCADA (Subcontractor used)
- Aeration systems
- Backwash recycling and Thickening
- Pipeworks

Design and Performance

Parameter	Design Influent	Actual Influent	Design Treated Water	Actual
Flow	3000m ³ /d		3000m ³ /d	3000m ³ /d
TSS mg/l	Avg 6.55 Peak 62	Avg 4.8 Peak 110	0	0
Turbidity NTU	Avg 3.5 Peak 60	Avg 4.2 Peak 320	<0.1	<0.05
Colour HCU	Avg 11.99 Peak 28	Avg 45 Peak 120	<10	<5

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Project Information

Client	Clutha 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	An extension of time to complete was sought and granted by the Engineer. Due to project specific issues.
Completed	June 2007
Satisfaction	The plant continues to provide water that meets or exceeds the requirement of NZDWS 2008. Ongoing Technical support services are in place with 3 monthly visits. Due to project specific issues the plant is under review for upgrading to handle the changed water conditions. Online Access to site PLC for Trouble shooting.
Project specific Issues	Actual average raw water colour 4 times that advised in the tender. (Testing undertaken by CITILAB was not to approved testing methods thus results were significantly understated in the Tender) <ul style="list-style-type: none"> - Impact on chemical consumption and sludge creation. - Caused an extension to the contract.

Site Photos

