

Project Data Sheet – Memcor MF Plant – Dunedin Airport

Project Overview

In 2007 the client sort to improve their effluent discharge and limit their Nitrogen and solids released into the local stream. The plant treats all the waste from the airport and is typically high in ammonia.

BECA had been instructed to redesign the plant to meet the consent objectives. The total plant upgrade also included the installation of a trickling filter as well as the MF plant. The trickling filter was not part of our scope.

Scope of works

Design and install MF plant to meet flow and effluent objectives. Including supply and installation of Power supply, CIP and Aeration systems.

Design and Performance

Parameter	Design Influent	Design Effluent	Actual
Flow	105m ³ /d avg 140m ³ /d peak		160m ³ /d peak
Suspended Solids mg/l	<100	<10	<1.0
Total Coliforms mpn/100ml	<11000	<260	<1.0

Project Information

Client	Dunedin International Airport
Project	Design Install MF plant to treat pond effluent
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.
Completed	3 rd September 2007
Satisfaction	The plant continues to provide significantly higher quality water than that required. A service in February was undertaken on the instruction of the client.

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Site Photos

