

## Project Data Sheet – Design and Build WWTP – Natadola, Fiji

### Project Overview

Design and build project for a new WWTP to serve the InterContinental Hotel and Golf resort and Spa Natadola Fiji. Design to allow for the planned subdivision and residential build proposed. The plant comprises primary screening, a two tank SBR, balance tank, 10 micron filtration, duty / standby UV, sludge thickening and dewatering via geotubes. All site wastes and supernatants are recycled.

### Scope of works

Plant Design to meet stringent local consent requirements for discharge to lake for Hotel and Golf irrigation. Overflow from the lake flows through the local village and this stream is used for collecting of fish, crabs etc.

*Civil Works* - Engaging Civil Engineer for Concrete tank Design  
- Engaging and Managing Local Subcontractor to build the concrete structures

*Process* - Design of process  
- Procurement and installation of all items  
- Validation of process via independent testing

*Control* - Controls design  
- MCC  
- PLC and SCADA  
- Installation

*Ongoing* - Plant site Management

### Design and Performance

Parameter	Design Influent	Design Treated Water	Actual	National Standard
Flow m <sup>3</sup> /d	625			
BOD <sub>5</sub> mg/l	240	10	8	40
TSS mg/l	240	10	3	50
F Coliforms		250	65	400
TKN mg/l	15	10	5	25
TP mg/l	15	5	1	5

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### Project Information

Client	Natadola Bay Resort Ltd
Project	Design and Build WWTP
Quality	Executed under ISO9001
H&S	No LTI's or injuries recorded
Timely Completion	Project completed 4 weeks late due to cyclone. Extension granted by Engineer.
Completed	April 2009
Satisfaction	The plant continues to exceed the requirements of the design. Plant was completed on budget.

### Site Photos

