



## KINOYA SEA OUTFALL PIPELINE

Suva City, Fiji Islands

**Client: Ministry of Works and Energy, The Government of Fiji**

### SUMMARY:

**Value:** US \$6.2 million  
**Status:** Complete 2006  
**Finance:** European Development Fund  
**Contractor:** Mc Connell Dowell (N.Z)  
**Consultant:** Nicholas O'Dwyer (Ireland)

**Services Provided:**  
Project Hydrographic Surveys and Design  
Mathematical modelling  
Environmental studies  
Hydraulic design  
Structural analysis and design  
Quantity calculations, costing & BOQ  
Construction supervision  
Detailed works inspection before acceptance

### Narrative Description of Project:

Studies and investigations followed by detailed design and construction supervision for a new effluent outfall at Kinoya Sewage Treatment Plant, near Suva City. The works comprised a main outfall of 2,060 lineal metres of 1,400 mm diameter HDPE pipeline (submerged below the seabed over a length of 1,800 m), the installation of 80 pipeline diffusers, concrete chambers, anchor blocks, etc. The outfall is designed to cater for phased discharge increases as the population equivalent moves from 90,000 to 360,000.

### Description of Actual Services Provided by Staff:

Review of historical documents, assessment of existing facilities and site investigations. Detailed design, preparation of tender dossier and cost estimates, assistance with tender procedures, tender evaluation and contract negotiations. Contract supervision including performance monitoring, reporting, claims management, general financial control and final account certification.



**Nicholas O'Dwyer**  
CONSULTING ENGINEERS