



DANIEL SMITH INDUSTRIES LTD

JOB PROFILE

**Lyttleton Marina Dredging
Christchurch, New Zealand**

Client: Saltwater Marinas Lyttleton Ltd
Main Contractor: McConnell Smith Ltd
Dredging Sub Contractor: Daniel Smith Industries Ltd
Contract Period: July to August 1999

Daniel Smith Industries were sub contractors to McConnell Smith Ltd to supply equipment and dredge 12500m³ of Marine Sediments in the new Magazine Bay - Lyttleton Marina, and transport excavated material 8km to Breeze Bay for dumping.

Equipment used for project consisted of 45 ton Samsung SE long reach excavator with hydraulic clam on McManaway Barging Ltd 200 ton barge and towed by McManaway 350 hp 15.2m tug boat 'Rakanui'.

Dredging material consisted of Marine silts and pugs. Dredging depth was up to 8m below high water level and cut depth ranged from 5m to 1m deep.

Method of dredging consisted of placing two anchors 50m behind barge and claming marine sediment onto the barge deck with Samsung excavator. The barge loaded with Samsung excavator could safely carry up to 200m³ of marine mud. As the excavator dipper entered and dug in a vertical position, excavation depths could be accurately controlled.

For each eight hour shift up to 600m³ was excavated, transported and dumped.

This project was completed at tendered lump sum price within the required program, in compliance with environmental contract conditions and to the clients and engineers satisfaction.

