

Assignment Name: Upgrade to loading quay and new breakwater to Pangnirtung fishing harbour		ID#: 23
Country: Canada Location within Country: Baffin Island, NU	Approx. value of the contract: Not available.	
Name of Client: Department of Fisheries & Oceans; Small Craft Harbour DFO-SCH	Approx. value of the professional services provided under the contract: US\$ 550,000	
Address:	Total No. of staff-assigned to Project: 6	
Start date (month/year): July 2010	Total No. of staff-months of the assignment: 10	
Completion date (month/year): December 2011	Duration of assignment (months): 19	
<u>Narrative description of Project:</u> Design and construction supervision for the River Diversion Channel for the Sharkbite Mine, required to permit mining operations to commence.		
<u>Description of actual services provided by professional engineering staff within assignment:</u> Design for increased harbour capacity including: <ul style="list-style-type: none"> • dredging of existing harbour basin, • construction of a new breakwater, • upgrades to existing breakwater and berthing quay and • construction of new laydown and boat storage areas. <p>Pangnirtung is accessible only by sea for 6 months of the year, and by air in small aircraft for the year. All designs and construction have to consider the access and working limitations (only 7 months).</p> <p>Negotiated Part 1 of the contract (dredging of existing harbour, construction of new laydown area and construction of new breakwater) on behalf of the department and assisted DFO-SCH in managing the tender process for Phase 2 (construction of new berthing quay).</p>		
<u>Description of Activities provided by RWI</u> Led the design team for the solution development for various options for dredging and use of the dredged material in the proposed laydown area. Project solution included design of temporary construction access and river crossings, with the long-term intent to include these roads into the transport network of the village. Negotiation of the Part 1 tender and construction phase included negotiation of the plant to be retained on the island after the closure of the construction season when the ice had already closed off the sea passage, with the Part 2 construction being completed in the following year. Sequencing of operations impacted on the material and equipment requirements and the staging had to optimize the use of equipment to be left on site, and to minimize the import of materials to the project site. Provided input and direction on management of scope changes and project deviations, with site and construction supervision being undertaken by others..		

