



VRCA Award of Excellence 2010 Winner

Location: Delta, BC
 Owner: Port Metro Vancouver
 General Contractor: Deltaport Constructors (Graham & VPDL Joint Venture)
 Marine Contractor: Vancouver Pile Driving Ltd.
 Start: 2006
 Completion: 2009
 Value: \$200,000,000

Project Description:

- The new 432 lineal meter berth is being constructed using 10 sunken concrete caissons, which are ballasted into place on a densified rock mattress.
- The soil conditions at the Deltaport site consist of dense sands and silts, as this site is located near the mouth of the Fraser River. The berth design is a caisson quay wall wharf, which is the ideal structure for these soil conditions.
- The caissons are large concrete boxes, designed to float, but need to be sunk on the seabed to create the quay wall. Vancouver Pile Driving Ltd. has a Graving Dock located in Vancouver Harbour that was used to fabricate the floating caissons.
- The project also requires approximately 500,000 cubic meters of dredging on the marine side and 1.5 million cubic meters of fills to create the upland component.

