

Site: Canadian Coast Guard wharf - Norman Wells, NWT

Project: Norman Wells Wharf Repair

Background:

The CCG wharf at Norman Wells is one of two DFO/CCG owned wharfs in the community. The wharf is of steel sheet pile construction with granular backfill and deck.

The CCG wharf and adjacent lay down area are used by Coast Guard to load and unload the many buoys and aids to navigation that are deployed in that section of the Mackenzie River. The loading and unloading process requires that CCG vessels come alongside and tie up to the Norman Wells CCG wharf. The ability of CCG vessels to do this has recently been compromised by damage to the sheet piling that has been caused by the annual spring ice breakup. This has greatly reduced accessibility to the wharf and upland and has created a health and safety concern for CCG ships and crews.

The purpose of this project is to repair or reconstruct the CCG Norman Wells sheet pile wharf to improve the usability of the wharf and upland storage area and allow vessels to safely come alongside to load and unload aids to navigation and other cargo.

Statement of Work:

The work under this contract shall include the following:

- Provide tender ready project specifications and construction drawings
- Option one construction work to include:
 - Removal of existing back fill to facilitate the repairs required to steel sheet pile (SSP) wharf
 - Remove top 2m of existing SSP as per structure condition report
 - Supply and install sill plates and new SSP to original elevation and dimensions as per structure condition report
 - Install loading ramp on west side of wharf to facilitate loading and offloading of barges at existing elevation and slope (see attached drawing)
 - Supply and install new DYWIDAG tie rods, steel wales and anchors
 - Supply and install steel pile cap
 - Supply and install mooring bollards of sufficient capacity for vessels using the facility on east and south side of wharf (see attached vessel specifications)
 - Back fill excavation to original elevation
 - Supply and install armour stone breakwater as per structure condition report

- Option two construction work to include:
 - Removal of existing back fill to facilitate the reconstruction of steel sheet pile (SSP) wharf
 - Supply and install new SSP to original dimensions and elevation
 - Install loading ramp on west side of wharf to facilitate loading and offloading of barges at existing elevation and slope
 - Supply and install new DYWIDAG tie rods, steel wales and anchors
 - Supply and install steel pile cap
 - Supply and install mooring bollards of sufficient capacity for vessels using the facility on east and south side of wharf (see attached vessel specifications)
 - Back fill excavation to original elevation
 - Supply and install armour stone shoreline protection as per original construction