

Public Registry - Project Proposals

NPC 150555: Resolute Bay Community Harbour Project

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Proposal Status: Conformity Determination Issued

Overview Documents

Project Overview

Type of application: New

Proponent name: Justin McDonell

Proponent company: Government of Nunavut - Community and Government Services

Project Description:

The Government of Nunavut, Department of Community and Government Service (GN-CGS) is planning the construction of a Community Harbour in the Hamlet of Resolute Bay, Nunavut (the Project). Worley Canada Services Ltd., operating as Worley Consulting (Worley), has been retained by the GN-CGS to support the detailed design of a Community Harbour in Resolute Bay (the Project). Dynamic Ocean Consulting Ltd (Dynamic Ocean) is supporting Worley on the permitting requirements for the Project. A feasibility phase of the Project was undertaken from 2019 to 2022, with the detailed design phase initiating in Spring 2024. A Memorandum of Understanding (MOU) between the Qikiqtani Inuit Association (QIA), the GN, and the Government of Canada has resulted from the creation of the Tallurutiup Imanga National Marine Conservation Area (TI NMCA) and was signed in the summer of 2021. The purpose of this agreement is to recognize that marine infrastructure is connected to community wellbeing as well as economic and social development. With funding from the Government of Canada, the Project aims to address the marine infrastructure deficit in Resolute Bay. The permanent components of the Project include the construction of a new breakwater, dredging of a harbour basin and entrance channel, a boat launch ramp, laydown and storage area(s), small craft floats, access roadways, slope protection, and area and navigational lighting. Project supporting components required during construction include a quarry and haul road. The haul road and quarry will remain in place following construction, where the quarry may be transferred to the Hamlet following completion of the Project. Several field studies have been undertaken in 2019 and 2024 to support determination of existing environmental conditions. A drilling program was undertaken in the summer of 2024 and a second program will be undertaken in the spring of 2025 to inform geotechnical requirements for the detailed design. Project construction is scheduled to initiate in 2026 and be substantially completed in 2029. In water construction works at the harbour location will occur during the open-water season, while work at the quarry and adjacent areas may extend before and after the open-water season. Community consultations have been ongoing since the feasibility study and are designed to ensure that residents, hunters, fishers, and stakeholders are consulted using a variety of methods and materials. To date, seven community consultation visits have been conducted since 2018, including: meetings with the Hamlet, the Nauttiqsuqtiit (guardians), and local QIA representatives; design workshops with the Resolute Bay Hunters and Trappers' Association; Inuit knowledge (Inuit

Project Schedule

Start Date: 2030-04-30

End Date: 2080-04-30

Project Map

List of project geometries:

Id	Geometry	Location Name
14038	polyline	Community Harbour Location Plan

NPC Planning regions:

North Baffin

Project Land Use and Authorizations

Project Land Use:

Permanent Structures

Marine-Based Activities

Pits and quarries

Licensing Agencies:

Nunavut Impact Review Board

Nunavut Water Board

Government of Canada - Fisheries and Oceans Canada

Government of Canada - Transport Canada

Government of Canada - Natural Resources Canada

Government of Canada - Crown-Indigenous Relations and Northern Affairs Canada

Material Use

Equipment:

Type	Quantity	Type	Use
Drills	2-3	5 tons	Quarrying
Excavators	3-5	30-40 tons	Quarrying, handling armour stone, loading trucks,excavating, dredging
Trucks	4-5	35-40 tons	Hauling quarried rock.
Front end loader	2-3	966-988	Loading rock and moving cargo/equipment.
Compactor	1	20 ton	Compacting road surface.

Dozer	1	D8	Leveling placed rock and road surfaces.
Grader	1	140	Road maintenance.
Spud barge/derrick	1	20 m x 50 m deck with 150 ton crane	Dredging, moving/lifting materials and equipment.
Work boats	1-2	50-500 horsepower	Floating equipment, movement and surveys.
Pickup truck	5	Crew cab, 3/4 ton	Crew and supplies movement
Mini-bus	1	15 passenger	Daily crew mobilization from hotel/accommodation to Project site.
Fuel/service truck	1	10 ton	Daily refueling and servicing of major mobile equipment, fueled from Government of Nunavut - Petroleum Products Division (GN/PPD) dispensers in Arctic and/or Contractor supplied fuel storage facilities.
Telhandler	1	5 ton	Moving materials and equipment.
Rough terrain crane	1	80 ton	Lifting materials.
Rock crusher	1-2	--	Crushing run of quarry materials.

Fuel Use:

Type	Container	Capacity	Use
Propane	15	2	Pick-up trucks, small work boats, small generators, and ATVs
Diesel	1	1250000	Mobile equipment; remote generators and heaters
Gasoline	1	13000	Pick-up trucks, small work boats, small generators, and ATVs

Hazardous Material and Chemical Use:

Type	Container	Capacity	Use
Lube and Oils	10	5	Maintenance of mobile equipment
Oxyacetylene	10	140	Welding and cutting of steel
Paint	10	1	Painting wharf hardware and miscellaneous components
Explosives	4	10	quarrying
Lubes and Oils	10	195	maintenance of mobile equipment

Water Consumption:

Daily Amount (m2)	Retrieval Method	Retrieval Location
5	Hamlet reservoir/water system	Delivery by Hamlet or contracted water truck

Waste and Impacts

Environmental Impacts:

Potential environmental and social impacts that may occur during the construction and operation of the Project are: - Accidental leaks and spillages of substances such as fuel or petroleum-based lubricants to the environment - Disturbance of terrestrial and marine wildlife - Loss of fish habitat - Changes to traffic patterns - Disruption of marine and terrestrial land uses - Increased noise, light and dust related to construction activities - Increased pressure on community infrastructure and support services details regarding proposed mitigation measures are further described in the supporting NPC Application Letter

Waste Management:

Waste Type	Quantity Generated	Treatment Method	Disposal Method
Combustible wastes	5 tons NA	Hamlet landfill	
Greywater sewage lagoon	400 cubic meters	NA	Hamlet or Contractor sanitarytruck to Hamlet
Hazardous waste	2000 liters	NA	Returned to south in sealed drums, transported in 20' shipping containers and disposed in accordance with regulatory procedures
Non-Combustible wastes	1 ton	NA	Hamlet landfill
Overburden (organic soil, waste material, tailings) exists at the quarry will be set aside and stockpiled at the quarry		negligible	NA What little overburden
Sewage (human waste)	600 cubic meters	n/a	Hamlet or Contractor sanitarytruck to Hamlet sewage lagoon