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New

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Coastal Infrastructure

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8/10/2021 8:28:53 AM

Period of operation: from 0001-01-01 to 0001-01-01

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Λαμβάνονται ως δεδομένα:

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501 University Crescent

Winnipeg Manitoba R3T 2N6

Canada

ᐃᓴᑲᑦᐅᐃᑦ: 204-805-3828, ᓯᑲᓳᑦᐅᑦ:

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$${}^{\epsilon}\mathfrak{b}_{\Delta}{}^{\zeta}\mathfrak{N}_{\sigma}{}^{\flat} \quad \wedge \neg \neg \mathfrak{d}^{\epsilon}\mathfrak{b}^{\epsilon}\sigma \neg \neg \mathfrak{d}^{\flat}\mathfrak{L}^{\flat}\sigma^{\flat}$$

^cبـ نـ د: see PDF of Project description (attached)

▷ΔΛ∩∩^c: n/a for North Baffin

$\Delta_{\sigma^b \cap \tau^c}$: $Cd_{\perp J} \nabla^b \tau^c \nabla L^{\tau^b} \cap \cap \nabla \tau^c \nabla L^{\tau^b} \nabla \sigma^b \nabla \sigma^b \nabla \sigma^c \nabla \sigma^b$ ($C \nabla \sigma^c$) τ^b

Personnel

Personnel on site: 30

Days on site: 390

Total Person days: 11700

Operations Phase: from 2022-05-30 to 2025-09-29

Operations Phase: from 2025-09-30 to 2049-09-30

Post-Closure Phase: from to

$\Lambda \subset \mathbb{N} \triangleleft \mathbb{N} \hookrightarrow \mathbb{D} \sigma \triangleleft^{\text{qb}} \mathbb{D}^c$ [illegible]

					southwest of the Project area.
Haul Route	Access Road	Municipal	The road from the harbour location to the Clyde River airport has been in place since at least 1985. The haul route between the quarry and the airport was established in 2019.	No known archaeological resources.	The closest community is Clyde River, which the haul route goes through. The closest protected area is Isabella Bay, which is approximately 80 km southwest of the Project area.

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Clyde River	Hamlet Council Members - Mayor, Councilors, SAO, etc	Hamlet of Clyde River	2019-05-24
Clyde River	Nangmoutaq HTO members	Nangmoutaq HTO	2019-05-24
Clyde River	Hamlet Council Members - Mayor, Councilors, SAO, etc	Hamlet of Clyde River	2018-11-08
Clyde River	Nangmoutaq HTO members	Nangmoutaq HTO	2018-11-08
Clyde River	Hamlet Council Members - Mayor, Councilors, SAO, etc	Hamlet of Clyde River	2019-11-04
Clyde River	Nangmoutaq HTO members	Nangmoutaq HTO	2019-11-04
Clyde River	Clyde River community members	Community Open House	2020-02-24
Clyde River	Nangmoutaq HTO members	Nangmoutaq HTO	2020-02-25
Clyde River	Hamlet Council Members - Mayor, Councilors, SAO, etc	Hamlet of Clyde River	2020-02-26
Clyde River	Hamlet Council Members - Mayor, Councilors, SAO, etc.	Hamlet of Clyde River	2020-09-29
Clyde River	Nangmoutaq HTO members	Nangmoutaq HTO	2020-10-01

Clyde River	Guardian Members	Guardians	2020-10-02
Clyde River	QIA local Members	Qikiqtani Inuit Association	2020-10-02
Clyde River	Hamlet Council Members - Mayor, Councilors, SAO, etc.	Hamlet of Clyde River	2021-02-20
Clyde River	Nangmoutaq HTO members	Nangmoutaq HTO	2021-02-21
Clyde River	Guardian Members	Guardians	2021-02-22
Clyde River	QIA local Members	Qikiqtani Inuit Association	2021-02-24

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North Baffin

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Environment and Climate Change Canada	Disposal at Sea (DAS) is not considered likely, however if required a DAS application will be submitted to Environment and Climate Change Canada (ECCC). A sample analysis plan (SAP) was submitted to and approved by ECCC for sediment analysis in the dredge footprint of the SCH. ECCC has been engaged from an early stage in project planning as the proponent (DFO-SCH) is a federal agency.	Not Yet Applied		
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	stage in project planning as the proponent (DFO-SCH) is a federal agency. Maintaining access for harvesters to the marine environment during construction has been a key part of consultation and measures will be in place during construction to confirm there are no access restrictions for hunters.			
ᐅᓇᑕᑦ ᓄᓇᑦᑖᑕᓚᓂᓪᓳᑦ	A permit from NRCan is expected to be required for the transportation and storage of explosives (required for blasting). NRCan compliance requirements will be the responsibility of the contractor and will be applied for after contract award and before the start of construction.	Not Yet Applied		
ᓄᓇᑭᑦ ᐃᑎᓚᓂᓪᓳᑦ ᐅᑎᑎᓪᓴᑦ	A Type B license may be required if the haul road upgrades requires culverts to be installed or if stream alteration is required for the Project. The haul route will cross a river close to Clyde River. Any temporary structures used to cross the river may require review and licensing from NWB. NWB compliance	Not Yet Applied		

	requirements will be the responsibility of the contractor and will be applied for after contract award and before the start of construction.			
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Project transportation types

Transportation Type	ᑲᓇᑕᓐ ᐃᑕᓐᑲᓐᑕᓐᑲᓐᑕᓐ	Length of Use
Air	During construction, the Project will use commercially scheduled flights, with the potential for use of chartered flights but may need to use chartered flights if the existing service cannot support the additional throughput. In addition, the Project will confirm that if commercial flights are used, that there is no effect to availability of flight service to locals	
Water	During construction, the Project will use the existing scheduled sealift deliveries	
Land	Heavy Equipment, and contractor light vehicles (pick-up trucks) will be used during construction.	

Project accommodation types

Temporary Camp

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					Meters	equipment, generators, heaters. Fuel will be dispensed on a daily basis from existing facilities in Clyde River. Container capacity field contains estimated total value.
Gasoline	fuel	1	140	140	Cubic Meters	Fuel for small equipment, trucks, work boats. Fuel will be dispensed on a daily basis from existing facilities in Clyde River. Container capacity field contains estimated total volume
Propane	fuel	10	100	1000	Lbs	Camp use - heating, refrigeration, cooking
Other	fuel	10	4	40	Cubic Meters	Acetylene - metal cutting and welding torches
Oils & Lubricants	hazardous	10	5	50	Gallons	Equipment maintenance
Paint	hazardous	10	1	10	Gallons	Painting wharf hardware & mics. components
Explosives	hazardous	1	1	1	Cubic ft	ANFO explosives for quarrying. Quantity to be determined. Storage and handling will be in accordance with license/cert/permit issued under the Explosives Act and Regulations

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Δ C 5b C L 5b 4D 5b C D 5b 4 5b 5b	5b 5b Δ Γ 5b C 5b C C 5b 5b 4 5b C C	Δ P C Δ Γ 5b C 5b C C 5b 5b 4 5b C C
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6	Water truck.	Community water supply.
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$$\Delta^b C d_{\sigma} \sim \Delta^{\epsilon} \sigma^{\epsilon b}$$

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Camp	የፍጥነት ማስፈጸም የሚያስፈልጉ ስራዎች	2 tonnes	Deposit in municipal landfill.	n/a
Camp	የፍጥነት ማስፈጸም የሚያስፈልጉ ስራዎች	800 m^3	Collected in wastewater truck and transported to municipal wastewater treatment facility.	n/a
Harbour infrastructure	የፍጥነት ማስፈጸም የሚያስፈልጉ ስራዎች	100 L	Package, sealed and transported south in shipping containers for disposal in accordance with applicable regulations.	n/a
Camp	የፍጥነት ማስፈጸም የሚያስፈልጉ ስራዎች	0.5 tonnes	Deposit in municipal landfill.	n/a
Quarry/Borrow pit	የፍጥነት ማስፈጸም የሚያስፈልጉ ስራዎች	Negligible	Stockpiled at quarry.	n/a
Dredging	የፍጥነት ማስፈጸም የሚያስፈልጉ ስራዎች	12, 000 m^3	Infilling and/or disposal at sea	n/a
Camp	የፍጥነት ማስፈጸም የሚያስፈልጉ ስራዎች	1,500 m^3	Collected in wastewater truck and transported to municipal wastewater treatment facility.	n/a

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Potential environmental impacts and mitigation measures are described in the Project Proposal (Chapter 7 and Chapter 8) and Construction Environmental Management Plan. There may be some negative residual environmental effects that will remain despite mitigation measures, predominantly with respect to ambient light, air quality, noise, marine water and sediments, marine fish and fish habitat and

marine mammals, however, no residual effects are predicted to be significant.

Additional Information

SECTION A1: Project Info

Details can be found in the Project Proposal sections: Chapter 1 and 4

SECTION A2: Allweather Road

An existing road is planned to be used to support the transportation of rock materials from the quarry to the SCH. Upgrades to the road will occur prior to construction and will be described in the Project Proposal document. In required, the contractor will be responsible for necessary permits from the NWB. Measures to manage traffic interactions with the community will be described in the CEMP, and the contractor will be required to develop a Traffic Management Plan (TMP) to detail methodologies (e.g. use of dust suppressants, speed limits, training requirements) to be undertaken to support CEMP requirements.

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

Details can be found in the Project Proposal sections: 4.5.3

SECTION D1: Facility

Details can be found in the Project Proposal sections: Chapter 4

SECTION D2: Facility Construction

Details can be found in the Project Proposal sections: Chapter 4

SECTION D3: Facility Operation

The SCH once operational will remain the responsibility of DFO-SCH. An Operations Environmental Management Plan (OEMP) will be prepared prior to operations of the SCH. There are not expected to be any differences in vessel use before and after the construction of the SCH. Details can be found in the Project Proposal sections: Chapter 4.4

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

There is no shipping associated with the project construction as all materials will arrive under existing scheduled sealift deliveries. It is anticipated that small vessels related to the construction of the Harbour

SECTION H2: Disposal At Sea

It has not been determined if disposal at sea is required, however the preferred DAS site is shown in the Project Proposal.

SECTION I1: Municipal Development

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Details can be found in the Environmental and Socio-Economic Baseline Report sections: 2, 4-5. Details can be found in the Project Proposal sections: Chapter 5

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Details can be found in the Environmental and Socio-Economic Baseline Report sections: 2, 6-10. Details can be found in the Project Proposal sections: Chapter 5

Impacts

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	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
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Harbour infrastructure		-	-	M	-	M	-	-	M	M	-	M	M		N	N	N	N	-		-	P	-	M	M
Quarry/Borrow pit		-	-	N	-	-	-	-	N	N	-	N	N		M	N	-	N	-		-	-	-	-	N
Access Road		-	-	M	-	M	-	-	-	M	-	M	M		M	M	-	M	-		-	-	-	P	M
Marine Based Activities		-	-	-	-	M	-	-	-	-	-	-	M		-	-	-	M	-		-	P	-	-	-
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Harbour infrastructure		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	P	P	P	-
Access Road		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	P	-
Marine Based Activities		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	P	P	P	P
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1	polygon	Small Craft Harbour Location
2	polygon	Quarry Location
3	polygon	Disposal at Sea Location
4	polyline	Haul Route

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| 1 | polygon | Small Craft Harbour Location |
| 2 | polygon | Quarry Location |
| 3 | polygon | Disposal at Sea Location |
| 4 | polyline | Haul Route |

