NIRB Application for Screening #125992
Bernard Harbour PIN-C Contaminated Site Remediation Project

Application Type: New

Project Type: Site Cleanup/Remediation

Application Date: 8/22/2024 2:57:49 PM

Period of operation: from 2025-09-09 to 2026-09-09

Project Proponent:

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DETAILS

Non-technical project proposal description

English: PIN C BERNARD HARBOUR SITE REMEDIATION PROJECTNon-Technical Summary – Project DescriptionCrown Indigenous Relations and Northern Affairs Canada (CIRNAC) plans to complete an environmental clean-up project of the PIN-C, Bernard Harbour Former Intermediate Distant Early Warning (DEW) Line site. The site is located in the Kitikmeot Region of Nunavut, on the shores of Dolphin and Union Strait (68.781824°N, 114.832372°W). The hamlet of Kugluktuk is the nearest community located approximately 100 km south of the site.The site was constructed in 1958 and subsequently abandoned in 1963. CIRNAC became the custodian of the Site in 1965. A limited cleanup program was completed in 1985 on behalf of the Department of National Defense (DND), Environment Canada (ECCC), and CIRNAC. During the program, the former POL tanks at the Main Station and Beach, equipment, and hazardous materials were removed from the site.The proposed project is the result of multiple years of assessment (1995-2022) and remediation activities that were completed at the site since its abandonment. The objective of the project is to demolish old buildings and structures, remove all remaining hazardous and non-hazardous debris, contaminated soil, and dispose of materials at offsite facilities. Some contaminated soil will also be treated on-site during the project.It is assumed that the project will take 2 seasons to complete with site work occurring from approximately late August 2025 to September 30, 2025, and June 2, 2026 to September 15, 2026. Access to the site will be by sealift/barge and air. A temporary seasonal camp will be set-up at the site for project personnel. It is anticipated that the project will require approximately 25 people to be on site at various stages to complete the cleanup activities.Throughout the project a strong working relationship will be developed and maintained with the nearby community of Kugluktuk. Community engagement sessions will be held with stakeholders and community members throughout the project. Successful completion of the clean-up project will improve conditions at the former DEW Line site so there will be no unacceptable risks to human health or the ecological environment and no future monitoring requirements.

French: N/A

Inuktitut: PIN C BERNARD ᐃᒪᓐᓂᑦ ᐃᓂᐅᔨᒥᐅ ᐅᑎᖅᑎᑎᓇᓂᕐᒧᑦ ᐱᓕᕆᔨᖅᐱᓕᕆᓇᐅᓯᖏᑦᑐᒥᐅᑦ ᓇᐃᔪᖅᓯᒪᔪᖅ - ᐱᓕᕆᔨᖅ ᖃᓄᐃᑦᑐᓂᖓᓄᕆᑕᒥᑦ ᒪᓭᒪᑐᖃᖅᓯᑦᑐᓂᕆᓕᓴᐅᑦ ᐊᒥᒪᓗ ᐅᑭᐅᖅᑕᖅᑐᒥᑦ ᖃᒪᓕᐅᑦ (CIRNAC) ᐱᐊᓂᓴᓂᐊᖅᑐᑦ ᐊᓭᑎᒥᐅ ᓴᓗᒪᖅᓴᐃᓂᕐᒥᐅ PIN-C, Bernard ᐃᒪᓐᓂᑦ ᐅᖅᓯᓴᑐᒥᑦ ᖃᐅᔨᑎᑦᑎᓂᕐᒥᐅ ᑕᐃᔨᐅᓭᓪᓕᐅᖅᓯᒪᔪᖅ. ᐃᓂᐅᔨᖅ ᖁᑎᖏᑕᐅᓵᓪᑐᖅ ᓄᓇᕗᒻᒥᑦ, ᐃᒪᓐᓕᕆᓂᑦ ᑕᑦᕕᓴ (Dolphin) ᐊᒻᒪᓗ ᓱᓂᐊᓴ ᐃᒪᐅᑦ (Union Strait) (68.781824°N, 114.832372°W). ᖃᐅᓪᓗᖅᑐᖅ ᖃᓂᓪᓚᕐᔪᖅ ᓄᓇᓕᑦ 100 ᑭᓪᓕᑕᑦᓗᐊᓂᑦ ᐅᓚᓴᓂᑎᑎᔪᖅ ᓂᕆᐊᓂᑦ ᐃᓂᐅᔨᑦ. ᓴᓇᓗᐊᓂᑦ 1958-ᒥᑦ ᐊᒻᒪᓗ ᖁᒪᑦᑕᐅᑦᑐᓗᓂ 1963-ᒥᑦ. CIRNAC-ᓄᑦ ᑲᒪᔨᖏᓪᓕᐅᖅᑐᑦ ᐃᓂᐅᔨᒥᑦ 1965-ᒥᑦ. ᐃᓪᓕᕐᓂᓂᑦ ᓴᓗᒪᖅᓴᐃᓂᒃᑲᓂᓪᓕᐅᖅᓯᒪᔪᑦ 1985=ᒥᑦ ᐱᔭᔪᑎᑦᑕᒥᑦ ᐅᓇᑕᖅᑐᑦᓴᐃᑦ, ᑲᓇᑕᒥᑦ ᐊᓭᑎᓕᓵᓚᔨᓄᑦ (ECCC), ᐊᒻᒪᓗ CIRNAC-ᓄᑦ. ᓴᓗᒪᖅᓴᐃᑎᑦᑕᒥᑦ, POL ᐃᒪᖅᐅᓯᕐᕿᐃᐅᖅᑲᐅᑕᐅᓚᐅᖅᑐᑦ ᐃᓂᑎᐅᐅᔨᒥᑦ ᐊᒻᒪᓗ ᓯᓴᒥᑦ, ᐱᖁᓄᑦ, ᐊᒻᒪᓗ ᐅᓗᓕᐊᓚᖅᑐᓪᓕᑦ ᐊᑐᖅᑕᐅᔪᑦ ᐋᖅᑕᐅᓚᐅᖅᑐᑦ ᐃᓂᐅᔨᒥᑦ.ᐱᓂᓕᐊᖏᔪᒪᓂᓚᐅᖅᑐᖅ ᖃᓄᕐᔪᖅᓴᐅᑦ ᐅᑎᖅᑎᑎᓇᓚᑦ (1995-2022) ᐊᒻᒪᓗ ᐅᑎᖅᑎᑎᓇᓚᑦ ᐱᐊᓂᔨᑕᐅᓚᐅᖅᑐᑦ ᐃᓂᐅᔨᒥᑦ ᑕᐃᒪᓐᓂᑦ ᖁᒪᑦᑕᐅᖅᖃᖅᑎᓪᓕᑐᒍ. ᐱᔭᕆᐅᑎᑦᓂᖓ ᐱᓕᕆᔨᑦ ᔪᑎᖅᑎᖅᓂᓂᕐᔨᓪᓕᑐᑦᑕᖅᐃᓕᑦ ᐊᒻᒪᓗ ᐊᑦᖁᑎᐅᒪᓕᐅᑦ, ᐱᖅᓯᐅᑦ ᐊᒥᓂᔨᑦᑕᖅᑐᑦ ᐃᓂᐅᔨᒥᑦ ᑕᐃᒪᓐᓂᑦ ᖁᒪᑦᑕᐅᖅᖃᖅᑎᓪᓕᑐᒍ. ᐱᓕᕆᔨᑦ ᐱᓕᕆᔨᑦᑕᒥᑦᑐᓗᓂ ᐃᓚᓕᕆᔨᑦ ᐊᑐᖅᑕᐅᓚᐅᖅᑐᑦ ᐃᓂᐅᔨᒥᑦ ᐊᒻᒪᓗ ᐅᓗᓕᐊᓚᖅᑐᓪᓕᑦ ᐃᓂᐅᔨᒥᑦ 2025-ᒥᑦ ᐊᒥᕋᐃᓴᖏᓐᓄᑦ 30-ᒧᑦ, 2025-ᒥᑦ, ᐊᒻᒪᓗ ᒪᓐᓂᑦ 2-ᒥᑦ, 2026 ᐊᒥᕋᐃᓴᖏᓐᓄᑦ 15-ᒧᑦ, 2026. ᐃᓂᐅᔨᒧᖓᓕᐅᓗᓂᑲᓪᓚᐅᑦ ᐅᒥᐊᖏᔪᓂᒥᑦ ᐊᒻᒪᓗ ᖃᓄᖑᑦᓂᓂᒥᑦ. ᐅᑎᐅᑦ ᐃᓪᓕᕐᓂᓂᑦ ᓄᓇᓕᐊᓂᕐᒧᑎᓪᓕᐅᓕᕆᔨᐅᐱᓕᓪᓚᖅᓂᓂᒃᑲᓂᑦ ᐊᑦᖁᑭᔪᓂᐊᖅᑐᑦ ᐊᑐᖅᑕᐅᓚᓂ ᓴᓗᒪᖅᓴᐃᓕᓂᓄᑦ. ᓂᓗᐅᑎᓴᐅᔨᖅ ᓴᓗᒪᖅᓴᐃᓂᖅ 25-ᓚᐊᓂᑦ ᐃᓄᖓᓂᑦ ᐃᓂᐅᔨᒧᑦᑐᖅᑲᐊᖏᓴᖅᑐᓂᖅ ᐊᑭᔨᑯᓂᑦᑐᓂ ᓀᓂᓂᕐᔭᖏᑦᑑᓂᓚᔪ ᐱᐊᓂᖓᓂᐊᓗᔪ ᓴᓗᒪᖅᓴᐃᓂᖅ.ᓴᓗᒪᖅᓴᐃᓂᓚᑦᑕᒥᑦ ᓴᖅᑭᔨᒥᑦ ᐱᓕᕆᓗᑎᒃᑲᓂᑦ ᐊᒻᒪᓗ ᖁᒪᑦᑕᐅᔪᓂ ᖃᐅᔨᓄᖅ ᓄᓇᓕᖓᓪᓕᒥᑦ ᖁᓕᓂᖅ ᓄᓇᓕᖓᑕᒥᑦ ᐱᖃᓕᕆᔨᖅᑐᑦ ᐊᑐᖅᑕᐅᓚᐅᖅᑐᑦ. ᐱᐊᓂᔨᑕᐅᑦᑎᐊᖏᓂᖓ ᓴᓗᒪᖅᓴᐃᓂᐅᔨᑦ ᐱᐅᓯᐊᓂᕐᒧᑎᓪᓕᐅᖅᑐᖅ (DEW Line) ᐃᓂᖓᓂᑦ ᐱᓴᐅᒪᔭᓂᑐᓂᓂᒃ ᐅᓗᓕᐊᓚᖅᑐᓪᓕᑦᓴᖏᓐᓂᒪᓕᑦ ᐃᓄᓕᑦ ᐊᑭᓂᐊᖅᑐᑦᑕᐃᓕᒪᓂᖓᓂᓄᑦ ᐅᕐᖅᑲᓂᓄᑦ ᐱᑭᖅᑕᓪᓕᐊᔨᓄᑦ ᐊᓭᑎᒥᑦ ᓯᓚᓂᖅᑎᑦ ᖃᐅᔨᒪᓂᖅᑐᑦᑕᖅᐃᓕᑦ ᐃᓄᐃᑦ ᐊᑭᓂᐊᖅᑐᑦᑕᐃᓕᒪᓂᖓ

havakvigaluangat. Hamna havakvingminiq Qitiqmiuniittuq Nunavunmi, hinaani Dolphin taamnalu Union Ikirahaanit (68.781824°N, 114.832372°W). Haamlangat Qurluqtuq qanitqiyauyuq ungahiaqtumik 100 km-nik hivuraanit havakvium.Havakviminiq hamna hanayauhimayuq 1958-mi taimaalu qimaktauhimayuq 1963-mi. CIRNAC munaqtiuliqtuq Havakvingnik 1965-mi. Tamatkiqhimaittumik halummaqtiqtauhimayuq 1985-mi taapkuninnga Havakviat Anguyaqtiliqiyit (DND), Avatiliqiyit Kanatami (ECCC), CIRNAC-kullu. Aulatillugu, POL-nguyut qattaqyuit Havakvilluanit Hinaanilu, ingilrutit, amirnaqtullu hunaqutit ahivaqtauhimayut havakviminiqnit.Tughirautauyuq havaaghat hapkua qauyihaqtauhimavaktuq amihunik ukiunik (1995-2022) utiqtittinahuaqhugu pitquhianut iniqtauhimayuq hamani qimaqtauvianit. Havaaghatigut hapkunuuna ituptiriyumayut utuqqanik ikluqpaminiqnik, ahivailutiklu amirnaqtunik amirnaittuniklu iqqakunik, kuviviuhimayuniklu nunanik, iqqakuqlugillu hunavaluit ahinit iqqakurvingnit. Ilangi kuviviuvaktut nunat halummaqtiqtauniat talvani havakvingnit havaangutillugu.Ihumagiyauyuq taimaa havaaghat hapkua aulavangniat malruulutik ukiut talvanngat August 2025-mit September 30-mut, 2025-mi, June 2-milu, 2026-mit September 15-mut, 2026. Upaktauvangniaqtuq havakviminiq hapkua umiakkut/agyaqtautikkut tingmiakkullu. Nayugakaffuunahuaqtuq tupiqtuqviuluni makitauluni talvani havaktinut. Naahuriyauyuq taimaa havaaghat hapkua 25-nik havaktiqarniat talvani qakugukiaq halummaqtiqtaupluni iniqtauyaaminik.Havaangutillugu hapkua hakugighainahuat havaqatigiiktunik aulapkaqtitaulunilu taapkualu nunallaarmiut Qurluqtumit. Nunallaarni katimapkaivangniat havakviillu nunallaarmiuniklu havaaghat hapkua aulatillugit. Iniqhiyumayut halummaqhiyut ihuaqhailutauniat maniraqmik DEW Laiminiqnit taimaa ihuilutaittaamik amirnaqtunik inungnut avatinullu uumayunut hivunighamilu munaqtauhuiriami.

Personnel

Personnel on site: 25
Days on site: 119
Total Person days: 2975
Operations Phase: from 2025-09-09 to 2026-09-09
Operations Phase: from 2025-09-09 to 2026-09-09
Closure Phase: from 2025-09-09 to 2026-09-09
Post-Closure Phase: from to

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Coordinates of centre of the PIN C Site	Site Cleanup/Remediation	Crown	The PIN-C, Bernard Harbour Former Intermediate Distant Early Warning (DEW) Line site was constructed in 1958 and subsequently abandoned in 1963. Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) later became the custodian of the Site in 1965.	The AIA reported that there are 51 previously recorded archaeology sites within 60 km of the proposed Project, 10 of those are within 10 km of the proposed Project. No affected heritage sites were identified or recorded at the PIN-C Bernard Harbour Site in the AIA (ERM 2022), nor at nearby areas of previously undisturbed terrain where proposed Project remediation activities are planned.	The hamlet of Kugluktuk is the nearest community located approximately 100 km south of the site.
Coordinates of centre of the PIN C Site	Camp	Crown	A temporary camp will be set-up at the site for project personnel. Camp operations will meet all regulatory requirements and manage water, wastewater and waste in an environmentally responsible manner. It is anticipated that the project will require approximately 25 people to be on site at various stages to complete the cleanup activities.	N/A	N/A
Coordinates	Quarry/Borrow pit	Crown	A small quarry	The AIA reported	N/A

of centre of the PIN C Site			will be established to support the •Excavation of borrow material, backfilling and grading of all excavated areas.	that there are 51 previously recorded archaeology sites within 60 km of the proposed Project, 10 of those are within 10 km of the proposed Project. No affected heritage sites were identified or recorded at the PIN-C Bernard Harbour Site in the AIA (ERM 2022), nor at nearby areas of previously undisturbed terrain where proposed Project remediation activities are planned.	

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Kugluktuk	Community Members of Kugluktuk	Crown Indigenous Relations and Northern Affairs Canada	2023-02-28

Authorizations

Indicate the areas in which the project is located:

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Other	Nunavut Planning Commission (NPC) - Conformity Check	Active	2024-08-15	
Indigenous and Northern Affairs Canada	Land Use Permit and Quarry Permit	Not Yet Applied		
Nunavut Water Board	Water Use License	Not Yet Applied		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	Crew and materials mobilized by Charter flights	
Water	Equipment and materials transported using sealift	

Project accomodation types

Temporary Camp

Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
bulldozer	tbd	various	spreading material
tractor	tbd	various	tilling soil
loader	tbd	various	loading materials
grader	tbd	various	grading materials
compactor	tbd	various	compacting materials
Excavatotor	2	various	soil excavation, granular production
Trucks Pickup	2	medium	Crew transport light duties
ATVs	4	meduin	site travel
Excavator	2	Various	soil excavation, granular production
Loaders	3	various	Granular fill Placement

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Diesel	fuel	1450	208	301600	Liters	Machinery
Gasoline	fuel	2	205	410	Liters	run equipment, vehicles, camp heating

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
6	Pumping and on-site treatment	Historic Drinking Water Lake located approximately 1 km northwest of the Main Station

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Site Cleanup/Remediation	Combustible wastes	To be determined (TBD)	On-site incineration in an enclosed container	None
Site Cleanup/Remediation	Greywater	To be determined (TBD)	Dispose on-site in compliance with applicable permit requirements	None
Site Cleanup/Remediation	Hazardous	210 cu m	Collect, containerize, and transport off site for disposal at a licensed facility	None
Site Cleanup/Remediation	Non-Combustible wastes	TBD	Shipped off-site for disposal	None
Site Cleanup/Remediation	Overburden (organic soil, waste material, tailings)	1000 cu m	Collect, containerize, and transport off site for disposal at a licensed facility.	Treat 800 cu m on site.
Site Cleanup/Remediation	Sewage (human waste)	TBD	On -site sewage treatment system or off-site disposal	None

Environmental Impacts:

Refer to the attached Project Proposal Report (PPR) for further details. The purpose of the PPR was to assess the environmental, social, economic, and cultural effects of the proposed Project and develop mitigation measures for identified impacts where necessary. The effects assessment found that onsite and offsite negative residual effects to VCs are expected to be short to medium-term (i.e., proposed Project duration) with no long-term negative impacts identified. Importantly, there are no anticipated significant negative residual effects nor are there any negative cumulative effects from the proposed Project on any VCs after implementation of avoidance and mitigation measures. The proposed Project is expected to have a positive impact on many VCs in the long-term by removing contaminated soils/substrate and debris to improve environmental, social, economic and cultural components both on and off the Site. VCs with significant positive effects from the proposed Project include topography and aesthetics, geology, landforms and permafrost, ecological integrity, and socioeconomics. If negative residual effects of the proposed Project are later considered to be contributing to cumulative effects, monitoring and adaptive management will be applied. Community engagement is ongoing for the proposed Project and any concerns or comments will be addressed.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

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

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

Please refer to attached Remedial Action Plan for Details.

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

Description of Existing Environment: Physical Environment

Please refer to the attached PPR.

Description of Existing Environment: Biological Environment

Please refer to the attached PPR.

Description of Existing Environment: Socio-economic Environment

Please refer to the attached PPR.

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

Please refer to the attached PPR.

Cumulative Effects

Please refer to the attached PPR.

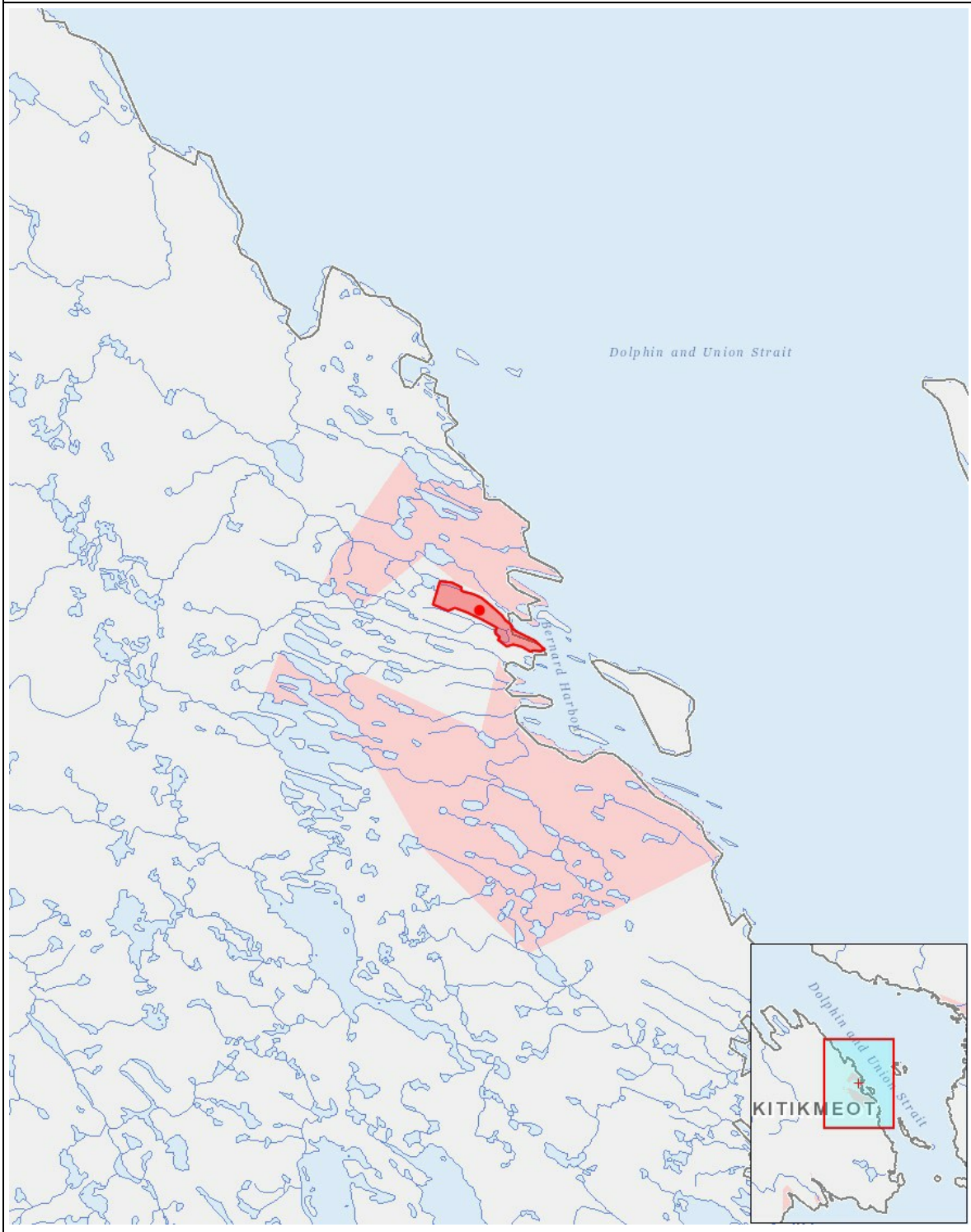
Impacts

Identification of Environmental Impacts

	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
Construction																									
Camp			-	P	P	-	P	P	P	P	P	-	P	P		P	P	P	P	P		P	P	P	P	P
Quarry/Borrow pit			-	P	P	-	P	P	P	P	P	-	P	P		P	P	M	P	P		P	P	P	P	P
Site Cleanup/Remediation			-	P	P	-	P	P	P	P	P	-	P	P		P	M	M	P	P		P	P	P	P	P
Operation																									
Camp			-	P	P	-	P	P	P	P	P	-	P	P		P	P	P	P	P		P	P	P	P	P
Quarry/Borrow pit			-	P	P	-	P	P	P	P	P	-	P	P		P	P	M	P	P		P	P	P	P	P
Site Cleanup/Remediation			-	P	P	-	P	P	P	P	P	-	P	P		P	M	M	P	P		P	P	P	P	P
Decommissioning																									
Camp			-	P	P	-	P	P	P	P	P	-	P	P		P	P	P	P	P		P	P	P	P	P
Quarry/Borrow pit			-	P	P	-	P	P	P	P	P	-	P	P		P	P	P	P	P		-	-	-	-	-
Site Cleanup/Remediation			-	P	P	-	P	P	P	P	P	-	P	P		P	P	P	P	P		P	P	P	P	P

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

Project Location



List of Project Geometries

1	polygon	Coordinates of centre of the PIN C Site
2	polygon	Coordinates of centre of the PIN C Site
3	point	New project geometry