



NIRB Application for Screening #126002

Field Research Program for the Grays Bay Road and Port Project

Application Type: New

Project Type: Scientific Research

Application Date: 9/23/2024 3:06:49 PM

Period of operation: from 2025-02-09 to 2029-12-12

Project Proponent: Gavin Law
West Kitikmeot Resources Corp.
PO Box 6, 30B Mitik Street
Cambridge Bay Nunavut X0B 0C0
Canada
Phone Number:: 403.837.5677, Fax Number::

Non-technical project proposal description

English: The Grays Bay Road and Port (GBRP) Project (Project) is a proposed transportation corridor that will permanently connect a deep-water port at Grays Bay / Kogloktokyo on the Coronation Gulf to the northern terminus of the Tibbitt-Contwoyto Winter Road at the former Jericho Mine, Nunavut (NU; Project Area). The Project is being proposed by West Kitikmeot Resources Corp. (WKR) and is currently subject to screening by the Nunavut Impact Review Board (NIRB; file # 24XN038), with a review under Part 3 of the Nunavut Planning and Project Assessment Act anticipated to commence in the near future. In support of advancing the design of the Project and of assessing impacts of the Project on the biophysical and socio-economic environment in an anticipated future environmental and socio-economic impact review in the coming years, WKR commenced field studies in July 2024. These studies are a continuation of, or are supplemental to, baseline studies screened and undertaken historically. To further advance impact assessment and design aspects, WKR needs to undertake additional studies (the Program). Some scope and scale aspects of these studies have not been the subject of impact screening by the NIRB; the purpose of this submission is to initiate impact screening and authorization issuance to allow for the Program to commence in early 2025. Generally, the Project involves workers accessing land and waters within the Project Area collecting biophysical environmental data, to maintain existing and install new scientific instrumentation required to support environmental data collection, and undertake design-related studies including geotechnical drilling.

French:

[illegible]

Inuinnaqtun: Kapihiliktup Ilagani Apkutikhamik Tolaktakvikmiklo (GBRP) Havak (Havak) atogomayaoyok aolavkikhak ilaleotipkaeneaktok itinikmi tolaktakvikmik Kapihiliktup Ilagani / Kogloктоаууоk-mi Kelineop Aheaplo Takyogiyani okeoktaktomut ihoani Tibbitt-mit Tahikyomut Ukeomi Apkotaoyup Jericho-galoamut Oyagaktakvikmi, Nonavumi (NU; Havap Inigiya). Havak atogomayaoyok Oalikheani Kitikmeot IhoakotiniK Koapareseoyomit (WKR) tayalo ilitokhaktaonahoak Nonavumi Avatilikiyinit Katimayinit (NIRB; titirakakveop nahaota 24XN038), ihivgeogotimi Ilagani 3 uvani Nonavumi UpalogaeyaotiniK Havalо Ilitokhakniginik Maligakyoami nahogiyaoyok atolikniganik kagogonoak. Ikayoktokniganik hivomuvalealigeagani kanoginikha Havap ilitokhakniginiklo aktoknigit Havamit umayovalokni inuyohikmi manikhakheogotinilo avataoyoni nahogiyaoyomi hivonikhami avatilikinikut

inuyohikmik manikhakheogotiniklo aktokniginik ihivgeokhiyotimik atoktukhani ukeoni, WKR-kot atolikhimayut manikami naonaeyaotini July-mi 2024-mi. Ukoa naonaeyaotit ilagiyaoyut, oegogiyaelo, naonaeyaotiloat ilitokhaktaoyut havagiyaoyolo taemani. Hivomut aolahimageagani aktokniginik ilitokhaot kanoginikhagolo piyotaoyut, WKR-kot havakageakaktut ilageagotokhanik naonaeyaotini (Havak). Ilagit kanoginiganik agitilaganik piyotaoyut ukoa naonaeyaotit okaotaohimagitut aktokniginik ilitokhaotini NIRB-konit; piyotaoniga uma tonihiyotip atoligeagani aktokniganik ilitokhaotit agiktaoniganiklo nalonaekniganik ona Havak atoligegani atolihalikat ukeok 2025. Imaetuginaktugaloak, Havak ilakaktok havaktonik ilitokhaeyonik nonamik imakniklo talvani Havap Haneani katitigivlotik umayovaloknit avataoyomik naonaepkotonik, tamakni atokhimakhogit taya talvanetut ileogaevlotiklo notanik naonaeyaotikhanik pikotonik atogeakaktonik ikayoktogegegani avataoyomik naonaepkotonik katitiknigani, havagilogolo kanoginikhanik piyotikaktonik naonaeyaotini unalo oyagaktakvikhanik ikutaklotik

Personnel

Personnel on site: 30

Days on site: 750

Total Person days: 22500

Operations Phase: from 2025-02-09 to 2029-12-12

Operations Phase: from 2025-02-09 to 2029-12-12

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
GBRP Study Area	Baseline data	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Baseline data	Inuit Owned Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
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			harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	documented a number of sites with stone features and artifacts.	and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Equipment installation	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
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GBRP Study Area	Fuel and chemical storage	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
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			have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	stone features and artifacts.	km northeast.
GBRP Study Area	Aerial surveys	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
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GBRP Study Area	Drilling	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
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			study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.		
GBRP Study Area	Drilling	Inuit Owned Sub-Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Waste disposal	Crown	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.

			of future road and port development.		
GBRP Study Area	Waste disposal	Inuit Owned Surface Lands	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Marine Based Activities	Marine	Kitikmeot Inuit have and continue to use the study area for travel and resource harvesting. Mineral explorers have and continue to use parts of the study area for mineral exploration throughout and mining at the southern terminus. Prior project proponents have undertaken environmental baseline studies in the past support of future road and port development.	Archaeological investigations undertaken throughout the Study Area identified documented a number of sites with stone features and artifacts.	Kugluktuk is located 180 km to the west of the northern extent of the study area and Cambridge Bay is located 280 km northeast.
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Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Kugluktuk	Various - see attached Engagement Log	Kitikmeot Inuit Association, Kugluktuk Angoniatit Association, Hamlet of Kugluktuk, public	2024-04-15
Gjoa Haven	Various - see attached Engagement Log	Usqsuqtuuq Hunters and Trappers Association, Hamlet of Gjoa Haven, Kitikmeot Inuit Association, Nunavut Water Board, public	2024-05-04
Cambridge Bay	Various - see attached Engagement Log	Kitikmeot Inuit Association, Ekaluktutiak Hunters and Trappers Association, Hamlet of Cambridge Bay, Nunavut Impact Review Board, public, Kitikmeot Region Chamber of Commerce	2024-04-17
Kugaarjuk	Various - see attached Engagement Log	Kitikmeot Inuit Association, Hamlet of Kugaaruk, public	2024-04-30
Taloyoak	Various - see attached Engagement Log	Taloyoak Umarulirigut Association, Hamlet of Taloyoak, Kitikmeot Inuit Association, public	2024-05-01

Authorizations

Indicate the areas in which the project is located:

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Water Board	Type B Water Licence	Not Yet Applied		
Aboriginal Affairs and Northern Development Canada	Class A Land Use Permit	Not Yet Applied		
Nunavut Research Institute	Social Science Research License	Active	2024-07-21	2024-12-30
Nunavut Research Institute	Scientific Research License	Active	2024-05-30	2024-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Archaeology and Paleontology Research Permit, Class II	Not Yet Applied		
Fisheries and Oceans Canada	Licence to fish for scientific purposes	Active	2024-05-30	
Kitikmeot Inuit Association	Land Use Licence II	Active	2024-06-19	2026-06-18
Government of Nunavut, Department of Environment	Wildlife Research Permit	Active	2024-07-30	2026-10-30

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	See attached Project Description	
Water	See attached Project Description	
Land	See attached Project Description	

Project accomodation types

Temporary Camp

Other,

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Snowmobiles	up to 8 (approx)	approx 1 m3	Access
Other additional supporting equipment as required (i.e. snow cat for winter drill support, loader for barge offload, as needed)	up to 8 (approx)	approx 8 m3	Access and program execution support
Barge	up to 8 (approx)	90 x 300 ft	Materials and equipment staging and load/offload
Survey instruments including remotes cameras, data loggers and remote operated vehicles	Various, depending on season and scope	Various, up to 15 m tall (i.e. weather station)	data collection
Rotary and fixed wing aircraft	Various, depends on season and conditions	Twin otter, Dash 8, A Star or approximate equivalent	Access, drill support, resupply
Drill	up to 6	Various	Geotechnical, geochemical, terrain, and permafrost data collection
Generators and pumps	up to 14 (approx)	approx 1 m3	Drill and research program support

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Propane	fuel	50	100	5000	Lbs	Fuel
Various lubricants, coolants, adhesives, solvents, fuel additives, paint, lab supplies	hazardous	1	1	1	Liters	Drill equipment, sampling equipment and boat operation and maintenance. Volumes and container sizes vary and are to be determined
Drilling fluids and related materials. Additional materials will be required. Volumes and container sizes are to be determined.	hazardous	1	50	50	Lbs	Drilling. Additional materials will be required. Volumes and container sizes are to be determined.
Diesel	fuel	300	205	61500	Liters	Drilling support
Aviation fuel	fuel	300	205	61500	Liters	Heli support

Gasoline	fuel	150	205	30750	Liters	Boat support
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Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
299	Pump with screened intake	Suitable freshwater or marine source adjacent to drill and/or camp

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Drilling	Combustible wastes	Various	Incineration, open burning, backhaul	Additional details to be provided during water licencing
Drilling	Hazardous	Various	Backhaul	Additional details to be provided during water licencing
Drilling	Non-Combustible wastes	Various	Backhaul	Additional details to be provided during water licencing
Drilling	Overburden (organic soil, waste material, tailings)	Various	Disposal to sump	Additional details to be provided during water licencing

Environmental Impacts:

See attached Impact Assessment.

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

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

See attached Project Description

Description of Existing Environment: Biological Environment

See attached Project Description

Description of Existing Environment: Socio-economic Environment

See attached Project Description

Miscellaneous Project Information

See attached Project Description

Identification of Impacts and Proposed Mitigation Measures

See attached Project Description, Impact Assessment and the next tab

Cumulative Effects

None predicted.

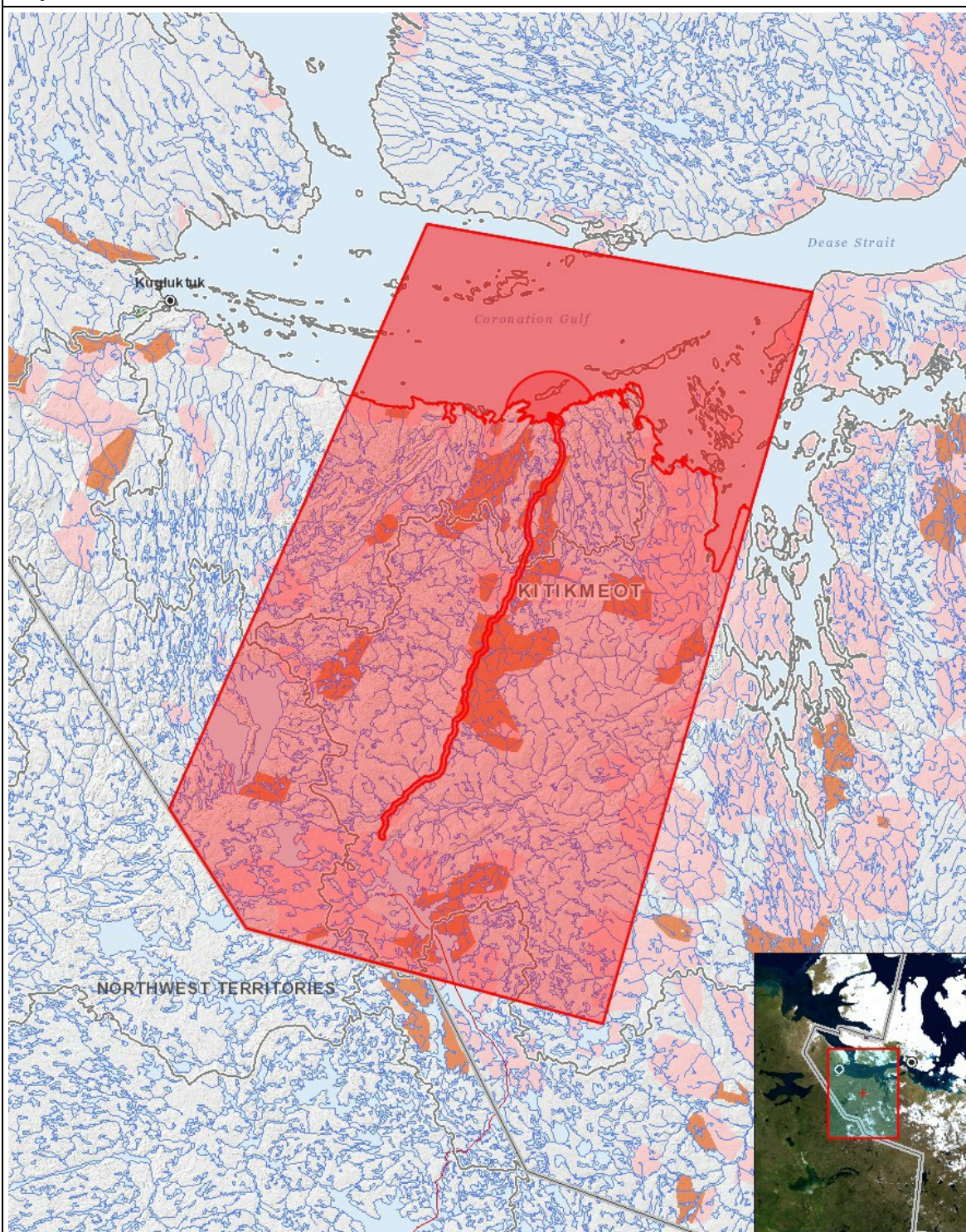
Impacts

Identification of Environmental Impacts

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eschers 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation																									
Aerial surveys	-	-	-	-	-	-	-	-	-	-	-	M	M	-	-	M	M	-	-	-	-	P	P	-	-
Baseline data	-	P	P	-	P	P	P	P	P	P	P	P	P	-	P	P	P	P	-	-	P	P	P	-	-
Drilling	-	M	M	-	M	-	M	-	M	M	M	M	M	-	M	M	M	M	-	-	M	P	P	-	-
Equipment installation	-	-	-	-	-	P	-	-	-	P	P	P	-	-	-	P	P	-	-	-	-	P	P	-	-
Fuel and chemical storage	-	M	-	-	M	-	M	-	M	-	-	-	-	-	M	-	-	M	-	-	M	P	P	-	-
Waste disposal	-	M	M	-	M	-	M	-	M	-	M	-	-	-	-	M	-	M	-	-	M	P	P	-	-
Marine Based Activities	-	-	-	-	M	-	-	-	M	-	M	M	-	-	-	M	M	M	-	-	-	P	P	-	-
Decommissioning																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Project Location



List of Project Geometries

- 1 polygon Major Activity – Freshwater Studies (fish, water, sediment) and Vegetation studies
- 2 polygon Grays Bay Fuel Cache
- 3 polygon Major Activity - Geotech Drilling Port
- 4 polygon Major Activity – Marine Studies (water, fish, sediment, noise)
- 5 polygon Major Activity - Terrestrial Wildlife Studies
- 6 polygon Major Activity – Marine Studies (mammals)
- 7 polygon Grays Bay Road and Port local study area
- 8 polygon GBRP Study Area
- 9 point Grays Bay Meteorological Station