



New

Scientific Research

9/23/2024 3:06:49 PM

from 2025-02-09 to 2029-12-12

Gavin Law
West Kitikmeot Resources Corp.
PO Box 6, 30B Mitik Street
Cambridge Bay Nunavut X0B 0C0
Canada
ᐅᓃᑦᐅᓂᑦ: 403.837.5677, ᐱᑲᓯᑦᐅᑦ:

ፍጹሙ ስለሆነ ለሥራ ልማትና ለሥራ ልማት

ᖃᓪᓴᓂᓂᓐ: 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 / Kogloktokyoq 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.

▷ ΔΑΝΩ:

[illegible]

Inuinnaqtun: Kapihiliktup Ilagani Apkutikhamik Tolaktakvikmiklo (GBRP) Havak (Havak) atogomayaoyok aolavkikhak ilaleotipkaeneaktok itiniKmi tolaktakvikmik Kapihiliktup Ilagani / KogloKtoakyok-mi Kelineop Aheaplo Takyogiyani okeoktaktoMut ihoani Tibbitt-mit Tahikyoamut 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 Havalo IlitokhakniginiK Maligakyoami nahogiyaoyok atolikniganik kagogonoak. Ikayoktokniganik hivomuvaléaligeagani kanoginikha Havap ilitokhakniginiKlo aktoknigit Havamit umayovalokni inuyohikmi manikhakheogotiniLo avataoyoni nahogiyaoyomi hivonikhami avatilikinikut inuyohikmik manikhakheogotiniKlo aktokniginiK ihivgeokhiyotimik atoktukhani ukeoni, WKR-kot atolikhimayut manikami naonaeyaotiniK July-mi 2024-mi. Ukoa naonaeyaotit ilagiyaoyut, oegogiyaelo, naonaeyaotiloat ilitokhaktaoyut havaqiyaoyolo taemani.Hivomut aolahimageagani aktokniginiK ilitokhaot

kanoginikhagolo piyotaoyut, WKR-kot havakageakaktut ilageagotokhanik naonaeyaotiniik (Havak). Ilagit kanoginiganik agitilaganik piyotaoyut ukoa naonaeyaotit okaotaohimagitut aktokniginik ilitokhaotiniik NIRB-konit; piyotaoniga uma tonihiyotip atoligeagani aktokniganik ilitokhaotit agiktaoniganiklo nalonaekniganik ona Havak atoligeagani atolihalikat ukeok 2025. Imaetuginaktugaloak, Havak ilakaktok havaktonik ilitokhaeyonik nonamik imakniklo talvani Havap Haneani katitigivlotik umayovaloknit avataoyomik naonaepkotiniik, tamakni atokhimakhogit taya talvanetut ileogaevlotiklo notanik naonaeyaotikhanik pikotiniik atogeakaktonik ikayoktogeagani avataoyomik naonaepkotiniik katitiknigani, havagilogolo kanoginikhanik piyotikaktonik naonaeyaotiniik 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

Λ Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο Π Ρ Σ Τ Υ Φ Χ Ψ Ω

[illegible]

			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.	study area and Cambridge Bay is located 280 km northeast.
GBRP Study Area	Equipment installation	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.	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	Equipment installation	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.
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.
GBRP Study Area	Fuel and chemical storage	Inuit Owned Surface	Kitikmeot Inuit have and continue to use the study area for travel and	Archaeological investigations undertaken throughout	Kugluktuk is located 180 km to the

		Lands	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.	the Study Area identified documented a number of sites with stone features and artifacts.	west of the northern extent of the study area and Cambridge Bay is located 280 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.
GBRP Study Area	Aerial surveys	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	Aerial surveys	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.

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.
GBRP Study Area	Drilling	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	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	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.

	Engagement Log	Trappers Association, Hamlet of Gjoa Haven, Kitikmeot Inuit Association, Nunavut Water Board, public	
ᐃᖅᑐᓕᓴᑦᐱᖅ	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
ᐃᓴᓕᓴᖅ	Various - see attached Engagement Log	Kitikmeot Inuit Association, Hamlet of Kugaaruk, public	2024-04-30
ᐃᓴᓕᓴᓴᖅ	Various - see attached Engagement Log	Taloyoak Umarulirigut Association, Hamlet of Taloyoak, Kitikmeot Inuit Association, public	2024-05-01

$\subset \Delta^{\text{eq}}_j \wedge J^{\text{eq}}_{\text{end}} \triangleleft^{\text{eq}} r^{\text{eq}}_{\text{CDPL}} \rceil$

Project transportation types

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

Project accomodation types

Temporary Camp

Δρ_α L,

◀▷σ◀^{εb}▷^{εb}

[illegible]

ᐃᓕᑦᒋᔭ ᐱᓄᑐ ᐃᖅᗪᐸᓂᐊᖁᑐᖁ ᖁᓇᐘᑐᓂᓴ	ᖁᑐᐳᐼᐹᑐ	ᐃᓕᑦᓂᓴᑦ - >ᖁᑐᓂᓴᑦ	ᐲᓵᑦ ᐃᖅᗪᐸᓂᐊᖁᑐ
Snowmobiles	up to 8 (approx)	approx 1 m ³	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 m ³	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 m ³	Drill and research program support

[illegible]

ᐱᓄᓇᐅᓂᐳᐃᑦ ᐃᑲᐅᓂᐳᐃᑦ	ᐅᓂᐅᓂᐳᐃᑦ ᐃᑲᐅᓂᐳᐃᑦ	ᐅᓂᐅᓂᐳᐃᑦ ᐃᑲᐅᓂᐳᐃᑦ	ᐅᓂᐅᓂᐳᐃᑦ ᐃᑲᐅᓂᐳᐃᑦ	ᐅᓂᐅᓂᐳᐃᑦ ᐃᑲᐅᓂᐳᐃᑦ	ᐅᓂᐅᓂᐳᐃᑦ ᐃᑲᐅᓂᐳᐃᑦ	ᐅᓂᐅᓂᐳᐃᑦ ᐃᑲᐅᓂᐳᐃᑦ
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

ΔLᵇ ᐱᐅᵇCᐅᐱᵇᐅᵇ

ᐅᵇᐅ ᐅᐱᵇ ᐱᐅᵇCᐅᐱᵇᐅᵇ	ᵇᐅᵇ ᐱᐱᵇCᵇCᵇᐅᐱᵇᐅᵇ	ᐱᐱᵇ ᐱᐱᵇCᵇCᵇᐅᐱᵇᐅᵇ
299	Pump with screened intake	Suitable freshwater or marine source adjacent to drill and/or camp

$\triangle^b \subset d^c$
$$\Delta^b C d r n \sigma \Delta^c \sigma^c b$$
[illegible]

$\Delta \nabla \Gamma \triangleright C \dot{\sigma}^C \supset^C \Delta^b \supset^{qb} C \triangleright \gamma L \gamma^C$

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

L^ae <AEN>^c ‘bmΔC’Cn▷σ^s: me▷^c ‘bmΔC’σ^s

See attached Project Description

[illegible]

See attached Project Description

[illegible]

See attached Project Description

Miscellaneous Project Information

See attached Project Description

[illegible]

See attached Project Description, Impact Assessment and the next tab

Cumulative Effects

None predicted.

Impacts

$\mathbb{A}^b \mathbb{C} \triangleright \sigma^a \tau^c \triangleleft \mathbb{B} \Gamma \triangleright \mathbb{C} \dot{\sigma}^c \mathbb{D}^c \triangleleft \mathbb{D}^b \mathbb{C} \triangleright \tau^c \mathbb{L} \tau^c$

[illegible]

($P = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$, $N = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$, $M = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$, $U = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$)

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

- | | | |
|---|---------|--|
| 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 |

