



## **Demande de la CNER faisant l'objet d'un examen préalable #125538**

### **Rankin Inlet sand pit**

**Type de demande :** New

**Type de projet:** Pits and Quarries

**Date de la demande :** 6/2/2020 7:33:20 PM

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

**Autorisations proposées:** from 0001-01-01 to 0001-01-01

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**Personnel**

Personnel on site: 2

Days on site: 1800

Total Person days: 3600

Operations Phase: from 2020-03-28 to 2030-09-21

## Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
Rankin Inlet Sand Pit boundary	Quarry/Borrow pit	Commissioners	The current use of this site is for quarrying purposes. It is estimated that this site was used as a quarry since at least the 1990's. Prior to that date, this site has no land use.	This site has no archaeological or paleontological value.	The quarry is located 7.3 kilometres from the community of Rankin Inlet. The Iqalugaarjuup Nunanga Territorial Park is 222 metres north of the quarry boundary. No other known protected areas in or around the quarry boundary.

### Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Rankin Inlet	Morag Macpherson, Senior Administrative Officer	The Municipal Corporation of the Hamlet of Rankin Inlet	2020-05-27

## Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Kivalliq

### Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Government of Nunavut, Community Government & Services	The quarry boundary is located on Untitled Municipal Land, which is administered by CGS. CGS is the applicant and we approve of this NIRB application.	Active		
Hamlets and Municipalities	Senior Administrative Officer with the Hamlet of Rankin Inlet gave consent to move forward with this application.	Active		

### Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Land	There is an existing road that was and is still being used to access the site. CAT loaders, excavators and dump trucks will use this road.	

### Project accomodation types

Collectivité

## Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
Loader	1	5.7m x 2.7m x 1.5m	excavate quarry material
dump truck	1	8m x 2.5m x 3.4m	haul quarry material
Track Excavator	1	10m(L) x 3.2m (H) x 3.2m (W)	excavate quarry material
Screener	1	14.2m(L) x 4m(H) x 4.9m (W)	Screen undesirable aggregate and large boulders out of Sand

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
Diesel	fuel	1	535	535	Liters	fuel tank that attached to the CAT Wheel loader. Diesel will be taken from the community fuel station.
Diesel	fuel	1	567	567	Liters	fuel tank that attached to the Dump Truck. Diesel will be taken from the community fuel station.
Diesel	fuel	1	600	600	Liters	fuel tank that attached to the Track Excavator. Diesel will be taken from the community fuel station.
Diesel	fuel	1	276	276	Liters	fuel tank that attached to the Screener. Diesel will be taken from the community fuel station.

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
4571	Water is retrieved from the Rankin Inlet fill station located on lot 546 plan 2542. The water is pumped from the community drinking source known as Nippisar Lake to the fill station.	Nippisar Lake- Rankin Inlet's drinking water source.

# Déchets

## Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Information is not available				

### Répercussions environnementales :

The natural vegetation such as moss and other arctic plants on the surface will be disturbed or destroyed within the excavation area of the Sand Pit. This is unavoidable due to the nature of quarry operations. Additional environmental impacts and the mitigation measures are outlined the Quarry Management, Spill Contingency and the dust mitigation measures Plans attached to this application.

# **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**

(see Quarry Management Plan attached to this application under Project application documents)

**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 de l'environnement existant : Environnement physique**

The site is already being used for quarrying purposes. It was estimated this quarrying started in the early 1990's. Prior to quarrying there was no land use. The quarry boundary is 30 metres east from of a large lake known locally as First Landing lake, though the actual extraction area is approximately 200 metres east. The depth and marine biology of First Landing Lake is not known but it has an approximate diameter of 744 metres. south-east of First Land Lake is an existing bridge named Char River Bridge that crosses over a drainage channel that drains water from First Landing Lake to Hudson Bay. It is located approximately one kilometre south of the Sand Pit. This bridge is used to access the quarry site. The Sand Pit contains natural sand eskers. These eskers have an elevation of 15 metres from the highest peak of the esker to the bottom of the quarry. The rest of the Sand Pit contains untouched natural vegetation. An image of the sand pit can be found attached to this NIRB application in Jpeg named "Rankin Inlet sand pit". There is an existing road that connects the community to the Iqalugaarjuup Nunanga Territorial Park that passes by the Rankin Inlet sand pit. This road will be used to access the site. It is used frequently by both the Hamlet, community residents, and contractors. There is no evidence of ice lensing, Therokarsts, ground or rock instability and seismicity. There are no heritage sites, sport and commercial fishing areas, migration routes, protected wildlife areas or sites of cultural or historical significance, or areas of natural beauty within or around the quarry boundary. Surface and bedrock geology, permafrost, and, sediment and soil quality are not known.

### **Description de l'environnement existant : Environnement biologique**

A portion within the sand pit boundary is already being used for quarrying purposes. This portion has been stripped of natural vegetation such as moss. The other portion has been untouched and contains typical vegetation found in Nunavut such as moss and other arctic plants. There are no wildlife or bird migration routes nor is there any species of concern in this area.

### **Description de l'environnement existant : Environnement socio-économique**

The Sand Pit is located 7.3 kilometres north of the community of Rankin Inlet and 222 metres south of the Iqalugaarjuup Nunanga Territorial Park. There are no archaeological or culturally significant sites within or around the quarry. There is no subsistence harvesting, tourism, trapping or guiding operations in the quarry. As mentioned previously, there is an existing road that connects the community to the Iqalugaarjuup Nunanga Territorial Park that passes by the Rankin Inlet sand pit. This road will be used to access the site. It is used frequently by both the Hamlet, community residents, and contractors. Since the quarry site is located 7.3 kilometres from the community of Rankin Inlet and 222 metres south of the Iqalugaarjuup Nunanga Territorial Park, the effect of the extraction process on the well-being of the residence will be minimal.

### **Miscellaneous Project Information**

Additional information can be see in the Dust Management, Spill contingency and Quarry Management plans.

### **Identification des répercussions et mesures d'atténuation proposées**

Impacts and mitigation measures are outlined in the Dust Management, Spill contingency and Quarry Management plans.

### **Répercussions cumulatives**

The road from the Community to the Iqalugaarjuup Nunanga Territorial Park which passes by the sand pit is well known by the residents of Rankin Inlet. It is used regularly by the Hamlet to access the sand pit, members of the public for recreational and leisure purposes and by the mining company Agnico Eagle Mines Limited to reach their Meliadine gold mine. Any possible cumulative effects from this sand pit will be minimal.

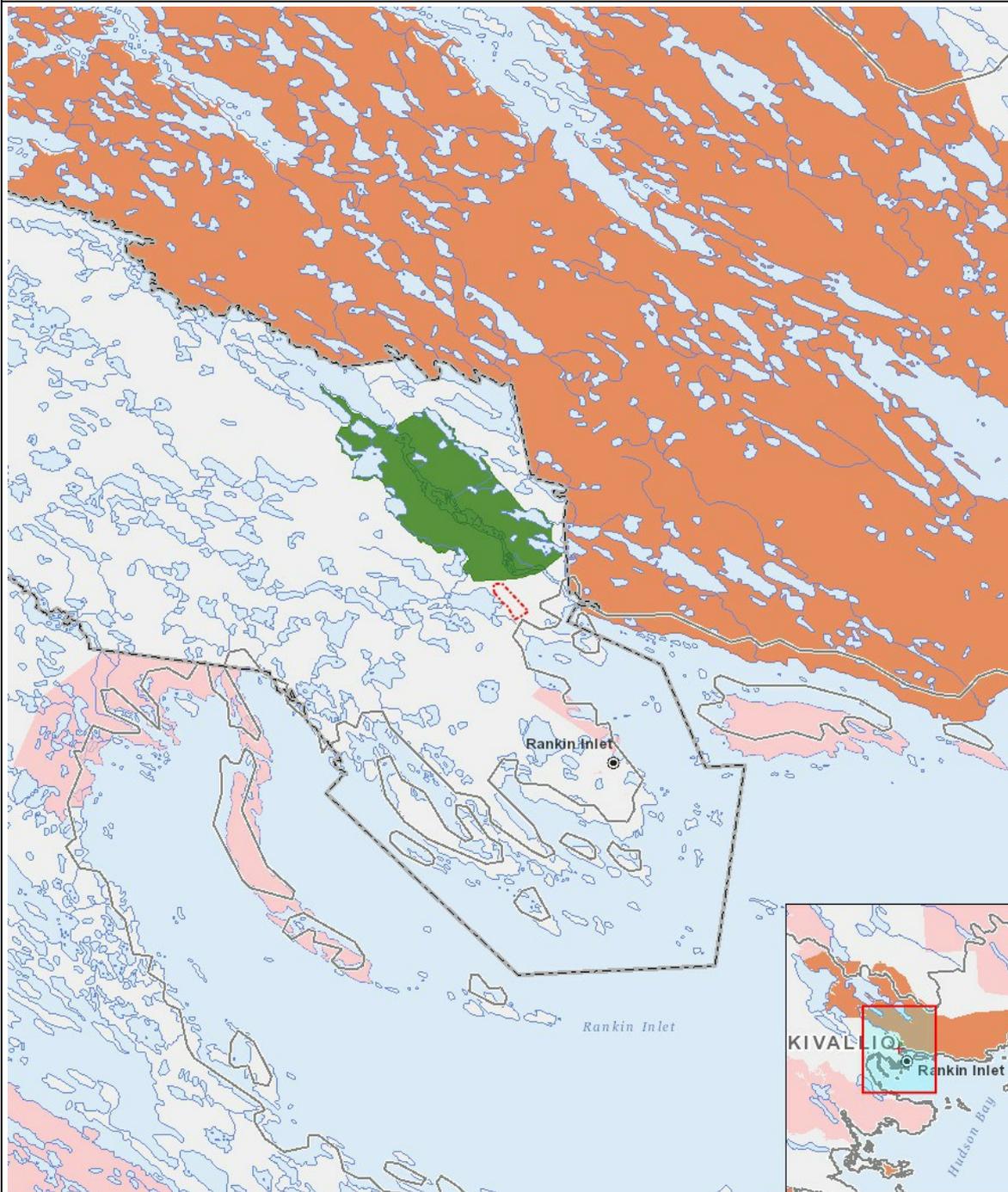
# Impacts

## Identification des répercussions environnementales

	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
<b>Construction</b>																									
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<b>Exploitation</b>																									
Quarry/Borrow pit	-	U	U	-	-	-	-	-	U	U	-	-	N	-	N	-	-	-	-	-	-	P	P	P	-
<b>Désaffectation</b>																									
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(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

Site du projet



Liste des géométries de projet

1	polyline	Rankin Inlet Sand Pit boundary
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