



## Demande de la CNER faisant l'objet d'un examen préalable #125743

### Application for the Water Licence Amendment of the Municipality of Kimmirut #3BM-KIM1929

**Type de demande :** New

**Type de projet:** Municipal and Industrial Development

**Date de la demande :** 11/29/2022 3:55:58 PM

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

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

**Promoteur du projet:** Department of Community and Government Services, Bhabesh Roy  
Department of Community and Government Services, Bhabesh Roy  
P.O. Box 379, Pond Inlet, NU X0A 0S0, Phone: 867-899-7314, Email: broy@gov.nu.ca  
Pond Inlet Nunavut X0A 0S0  
Canada  
Téléphone :: 867-899-7314, Télécopieur :: 867-899-7330





## 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
sewage lagoon	Municipal and Industrial Development	Municipal	shallow fresh water lake	site has no archeological or paleontological value	proximity to the town 1.3 km

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

Collectivité	Nom	Organisme	Date de la prise de contact
Information is not available			

## Autorisations

Indiquez les zones dans lesquelles le projet est situé:

South Baffin

### Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Office des eaux du Nunavut	water license 3BM-KIM1929	Active	2019-05-27	2029-05-26

### Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Land	SEWAGE TRUCKS	

### 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
excavator	1	heavy duty	excavation
crusher	1	heavy duty	aggregate production
screener	1	heavy duty	aggregate screening
dump truck	2	heavy duty	aggregate and construction material ground transportation
front loader	1	heavy duty	loading aggregate and construction materials
heavy duty compactor	2	heavy duty	aggregate compaction
grader	1	heavy duty	grading
dewatering pumps	2	heavy duty	surface water management and diversion
water truck	1	12000 L	aggregate material compaction

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
unknown	hazardous	0	0	0	Liters	Not applicable
Diesel	fuel	1	12000	12000	Liters	PPD fuel truck

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0		

## 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 :

presently community sewage disposal practice is direct discharge into marine environment. this project will improve environmental impacts by providing proper sewage containment and treatment.

# **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**

1. Municipality sewage disposal facility is identified as Municipal Capital Facility. Project consists of Sewage Lagoon and wetland construction. Daily service provision service consists of Collecting raw sewage from businesses and private housing, trucking and disposing the raw sewage into sewage lagoon. Once a year sewage will be decanted into wetland area. To construct new sewage lagoon, local quarry material will be used. Produced quarry aggregate will be trucked to the construction site. Recommended but not limited to, PPE in sewage disposal consists of gloves, eye protection, hard hat, steel toe boots, tyvek coverall and face respirator. There is no safety requirement to have fire fighting equipment installed at the sewage lagoon facility. Fire extinguishers are located within sewage trucks. Sewage truck engine and sewage pump are the Noise sources during sewage disposal process. Ear plugs are recommended.

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

Presently Kimmirut sewage disposal is uncontrolled direct sewage discharge into the wetland area, directly connected with marine environment. Access road to existing sewage discharge area will be upgraded. There are no designated recreational, harvesting or park areas in vicinity.

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

Existing shallow fresh water lake to be converted into sewage lagoon does not house any aquatic species. It is not recognized spot as a critical habitat or residence of any species. Locals have not noticed any migration or spawning patterns of any species.

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

Existing area has been used as an unregulated sewage disposal for decades. There are no land or marine harvesting activities in sewage disposal area.

### **Miscellaneous Project Information**

Presently raw sewage collection from private homes and businesses is carried out daily with sewage truck. Upon filling the sewage truck to the capacity, raw sewage is discharged into sewage lagoon where primary influent treatment occurs. During summer months sewage is transferred/decanted into wetland area. Initial sewage decanting flow into wet land is actuated by sewage transfer gas powered pump. As soon as syphoning transfer starts, sewage pump is disconnected and removed from the site. Sewage decanting/transfer process from lagoon cell into wetland takes on an average 6-8 weeks. Sewage final effluent polishing treatment is completed in the wet land prior to entering the marine environment. Gravel supply for all road upgrades and new road built, will be supplied from existing quarry. Aggregate volumes required for sewage lagoon construction and truck turn around area are estimated @ 34 000 m<sup>3</sup>. Estimated existing quarry gravel supply is 70 000m<sup>3</sup>.

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

Constructing the new waste water treatment disposal facility ( sewage lagoon) will significantly improve land and aquatic environment

### **Répercussions cumulatives**

Monitored and regulated new sewage disposal facility will have significant positive impact on environment

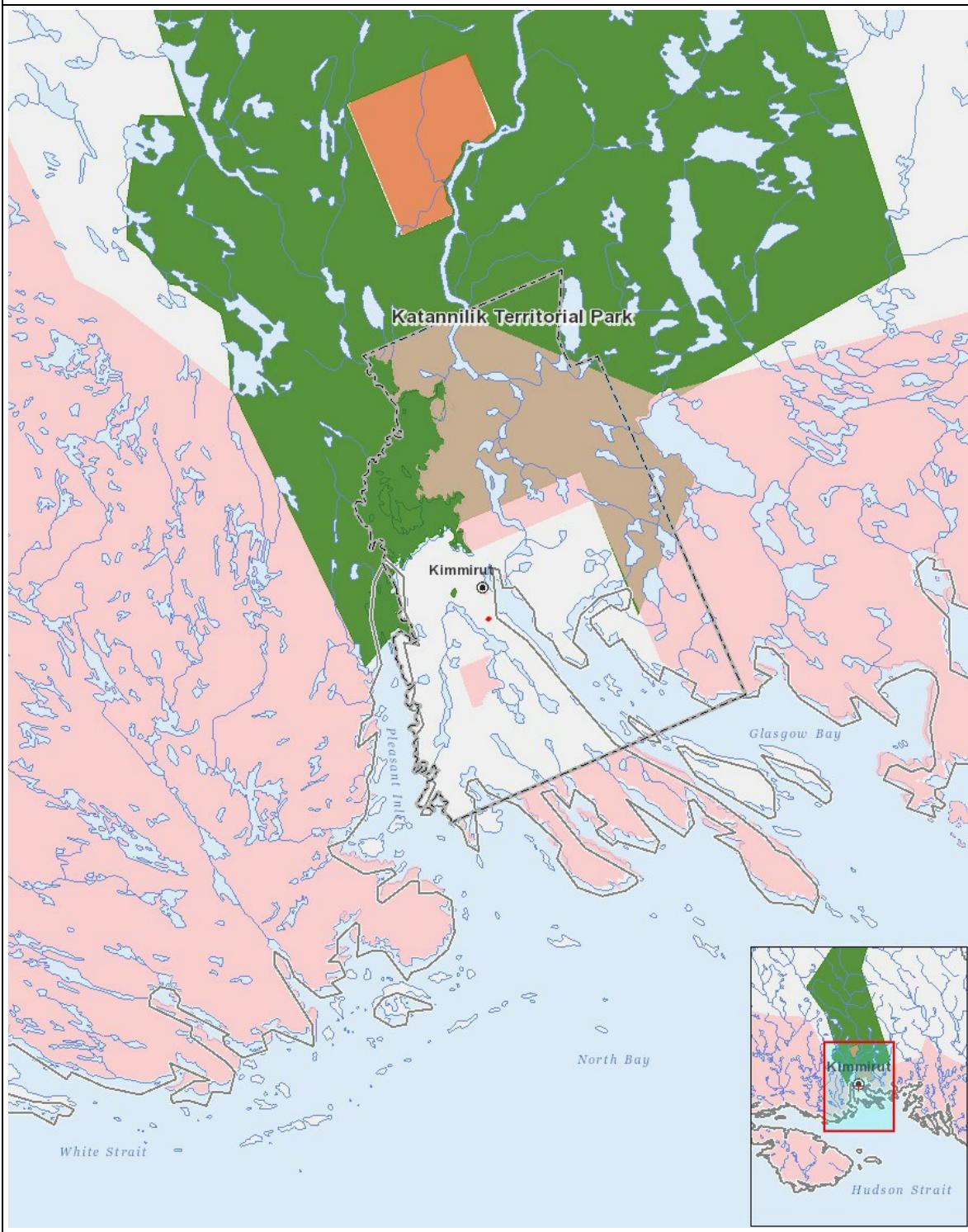
# Impacts

## 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															

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

## Site du projet



## Liste des géométries de projet

1	polygon	sewage lagoon
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