



## **NIRB Application for Screening #125632**

### **3BM-COR1521 Municipal Water Licence Renewal**

**Application Type:** New

**Project Type:** Municipal and Industrial Development

**Application Date:** 8/12/2021 3:01:35 PM

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

**Proposed Authorization:** from 0001-01-01 to 0001-01-01

**Project Proponent:** Elan Chalmers  
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**Personnel**

Personnel on site: 2

Days on site: 365

Total Person days: 730

Operations Phase: from 2021-09-30 to 2031-09-29

## Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Coral Harbour	Municipal and Industrial Development	Municipal	Municipality of Coral Harbour	Only the areas currently licensed under 3BM-COR1521 will continue to be used, no areas of archeological value will be impacted.	The activities under this licence are for Coral Harbour municipal water use and waste disposal.

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Coral Harbour	Leonie Pameolik	Municipality of Coral Harbour	2021-05-10

## Authorizations

Indicate the areas in which the project is located:

Kivalliq

### Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Water Board	A type B renewal application was submitted to NWB for the 3BM-COR1521 water licence for municipal water use and waste disposal. An additional application to amend the licence to Type A will be submitted.	Applied, Decision Pending		

### Project transportation types

Transportation Type	Proposed Use	Length of Use
Land	Wastewater and solid waste is transported by truck from municipal buildings to disposal areas.	

### Project accomodation types

Community

## Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Pump	N/A	N/A	Pumps used to draw raw water from source into water reservoir for storage until moving to the treatment plant for chlorination/disinfection, then moved into discharge arm for filling of the water trucks.
Collection Truck	1	2300 kg	Garbage collection

### Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Diesel	fuel	1	20	20	Liters	Fuel to power small portable pump for water withdrawal. Sourced from the hamlet.
Diesel	fuel	1	2000	2000	Liters	Fuel used to power water supply building is supplied by hamlet. Fuel tank size is estimated from the typical size of a building fuel tank.
Chlorine	hazardous	20	30	600	Kg	Chlorine used for disinfection of RAW water at the water treatment plant. Chlorine is stored by the hamlet in a space designed for chemical storage. Exact amount is unknown.

### Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
2000	Pump for approx. 25 days to resupply the raw water reservoir (in use since 1980) to sustain the municipality each year. There is no increase to the actual water withdrawal amount.	Post River. This location is already the licensed resupply location and water source. There is no increase to the actual water withdrawal amount.

# Waste

## Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Waste disposal	Combustible wastes	6 cubic meters/capita/yr	Landfill	Burning combustible waste
Waste disposal	Hazardous waste	0.6 cubic meters/capita/yr	Segregated and contained at landfill	Backhaul
Waste disposal	Sewage (human waste)	45,000 cubic meters	Trucked disposal into a sewage lagoon	Wetland treatment area

### Environmental Impacts:

The activities under the existing Coral Harbour water licence are essential municipal activities. The lagoon wetland system provides treatment for wastewater prior to effluent entering the final receiving environment. The solid waste site provides containment for waste generated by the municipality. The water use is not expected to increase beyond the volume previously licensed, in the next 10 years. This application is for the licence to reflect that up to 45,000 m<sup>3</sup> is pumped annually in approximately 25 days from Post River to the water treatment plant reservoir for the municipal water supply for the year.

# **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**

### **Description of Existing Environment: Biological Environment**

### **Description of Existing Environment: Socio-economic Environment**

### **Miscellaneous Project Information**

Water is pumped annually from Post River to fill the water reservoirs to provide municipal water service for the year. This annual resupply has taken place since at least 1980 when the first reservoir was constructed. This water licence amendment and renewal to a Type-A water licence is to reflect this resupply method.

### **Identification of Impacts and Proposed Mitigation Measures**

While this licence is proposed to change from a type-B water licence, which only allowed up to 300 cubic meters per day, to a type-A water licence with 2,000 cubic meters per day, there is actually no change in practice occurring. This has been how this system has operated since 1980, and is required to function in this fashion to provide the essential service of a potable water supply to the Community of Coral Harbour for the year.

### **Cumulative Effects**

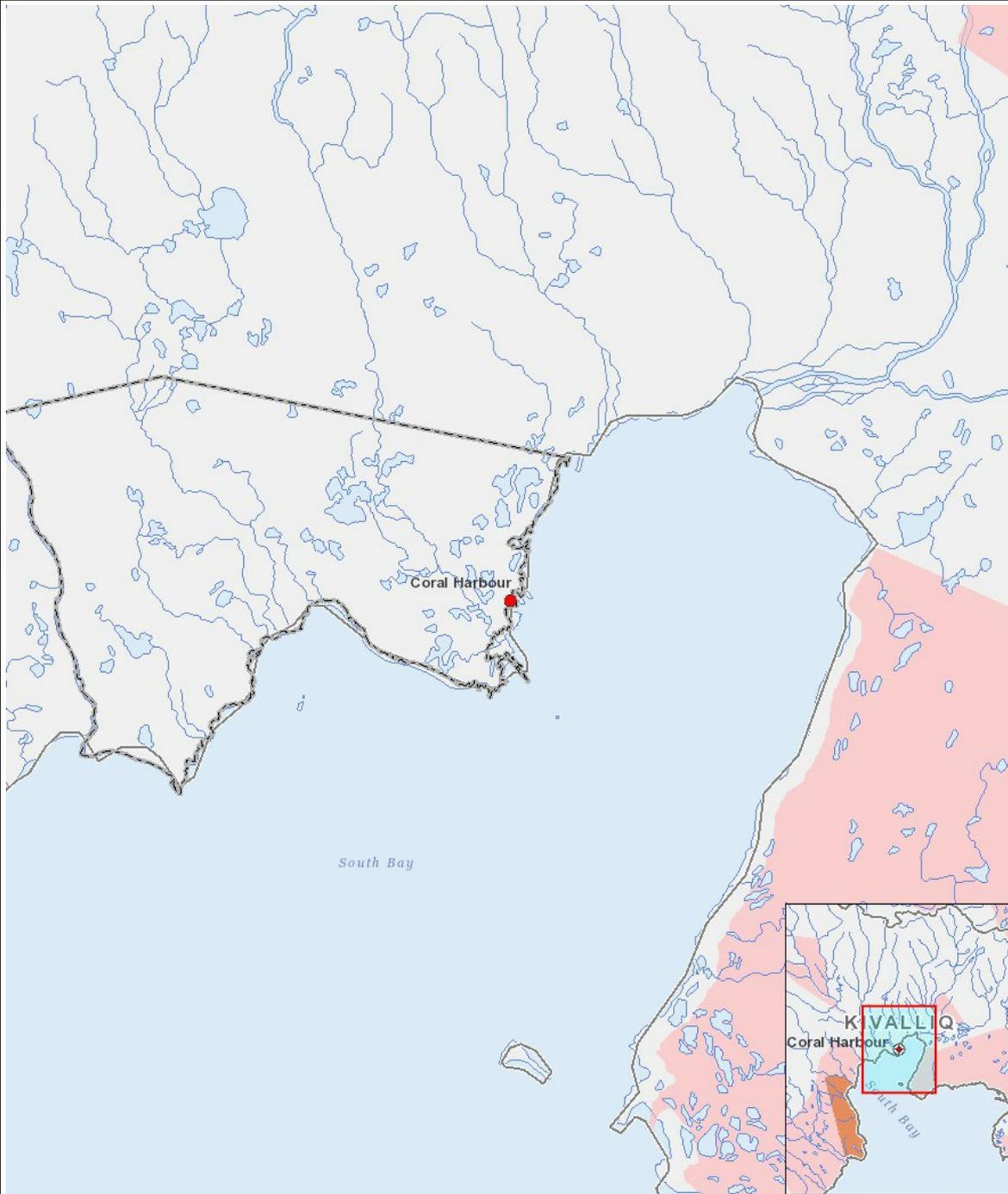
# Impacts

## 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
<b>Construction</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Operation</b>																									
Municipal and Industrial Development		-	-	-	-	P	-	-	-	-	-	-	-		-	-	-	-	-		-	P	P	P	P
<b>Decommissioning</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Project Location



List of Project Geometries

1	point	Coral Harbour
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