

Project Dashboard

3BM-REP1520 Municipal Water Licence Amendment and Renewal (149792)

Proposal Status: Conformity Determination Issued

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Project Overview

Type of application: **Amendment**

Proponent name:	Mayor
Company:	Hamlet of Naujaat

Schedule:

Start Date:	2021-01-27
End Date:	2031-01-26
Operation Type:	Annual

Project Description:

This application is to amend the 3BM-NAU2126 water license to include the construction of a new lagoon upstream of the current wastewater discharge point and wetland-treatment-area and to amend the compliance point treatment objective parameters at REP-6 to CBOD/TSS 100/120 mg/L. All previous information submitted for this water license remains the same; there are no changes to the water supply or solid waste disposal infrastructure as authorized under 3BM-NAU2126.

Summary of Modifications:

This application is being submitted by the Government of Nunavut on behalf of the Municipality of Naujaat is to amend the 3BM-NAU2126 water license to include the construction of a new lagoon upstream of the current wastewater discharge point and wetland-treatment-area. Currently the Municipality discharges waste into a natural depression in a valley that acts as a permeable holding cell from which sewage passively flows through a series of wetlands and ponds before entering Hudson Bay. The new lagoon will be designed with a working volume of 104,550 cubic meters to hold 12-months of wastewater, precipitation, and sludge accumulation for a design life of 20-years, based on projected population growth. The wetland-treatment-area, and discharge point into the wetland-treatment-area will remain the same. An extension to the current lagoon access road to reach the new lagoon is also required. The road is proposed to be 4 m in width with a grade of 2.5%. Where the road meets the lagoon, a truck turning pad with a turning radius of 17.5 m will need to be constructed. Side slopes for the access road will be 3:1. Additionally, the Licensee is requesting to change the effluent treatment parameter limits to CBOD = 100 mg/L and TSS = 120 mg/L at the REP-6 compliance point based on the best available wastewater treatment research conducted in Nunavut. The license holder is also requesting to amend the license term to 10-years.

Personnel:

Persons:	2
Days:	365

Project Map

List of all project geometries:

ID	Geometry	Location Name
8860	point	Naujaat, Nunavut
8885	polygon	Lagoon

8889	polygon	Access Road
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Planning Regions:

Kitikmeot

Affected Areas and Land Types

Municipal

Settlement Area

Keewatin Planning Region

Project Land Use and Authorizations

Project Land Use

Other

Licensing Agencies

NWB: Type B Licence

Other Licensing Requirements

No data found.

Material Use

Equipment

Type	Quantity	Size	Use
Pump	1	N/A	Annual decant of effluent into the adjacent wetland treatment area

Fuel Use

Type	Container(s)	Capacity	UOM	Use
No records found.				

Hazardous Material and Chemical Use

Type	Container(s)	Capacity	UOM	Use
No records found.				

Water Consumption

Daily Amount (m ³)	Retrieval Method	Retrieval Location
230	Pump	Fish Lake

Waste and Impacts

Environmental Impacts

Release of raw sewage and greywater into a sewage lagoon for settling, and release of effluent into a wetland for treatment before discharge into the Hudson Bay.

Waste Management

Waste Type	Quantity Generated	Treatment Method	Disposal Method
Greywater	104,550 m ³	Effluent is treated in the lagoon and wetland-treatment-area	Release of raw sewage and greywater into a sewage lagoon for settling, and release of

effluent into
a wetland for
treatment
before
discharge
into the
Hudson Bay