

שפרים הפרימביש עלילליטויטי

Department of Community and Government Services Nunalingni Kavamatkunnilu Pivikhaqautikkut Ministère des Services Communautaires et gouvernementaux

Richard Dwyer
Manager of Licensing
Nunavut Water Board
P.O. Box 119, Gjoa Haven, NU X0B 1J0

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Phone: (867) 360-6338, Ext. 27, Fax: (867) 360-6369

Email: Richard.dwyer@nwb-oen.ca : licensing@nwb-oen.ca

Subject: Seeking approval for the Renewal of the Type A Water Licence of the Resolute Bay Utilidor System for 20 yrs. Term.

Dear Mr. Dwyer.

I am writing you following the TC/PHC on July 14 and our commitments made in the meeting that we are expecting the term of the new Type A Water Licence for 20 yrs. instead of 10 yrs.

## The Justification for longer term Water Licence of the Utilidor System of the Municipality of Resolute Bay is as follows.

The Utilidor System has been serving the small town Resolute Bay since 1978. A Macerator unit located close to the sewage outfall was built at that time in order to grind the suspended solids into smaller particles prior to discharge into the sea. A mechanical wastewater treatment plant was planned and a building was constructed at that time next to the Macerator Unit. Unfortunately, this building was unused since then because no WWTP was built inside.

Also, the Airport sewage Lagoon was built and has been maintaining since 1978 or prior to that to serve the airport and its surrounding facilities.

In a very small Town like Resolute Bay, the wastes water is collected by truck in the airport area and sewer system in the town area following two different modes of collection systems and treatment methods. Both systems have been functioning well for last more than 40 yrs.

As time goes and technology develops, the government of Nunavut has taken a massive capital program to update the entire Utilidor system into four phases:



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Phase 1: Construct a new Water Storage Tank at Signal Hill next to the Water Treatment Plan. This project was completed in 2012.

Phase 2: Upgrade the main Utilidor system which consists of the water line, sewer line, fire hydrants, check vaults etc. This phase was completed in 2015. Currently no leak is experienced in the whole system.

Phase 3: Construction of the New Pump station at Char Lake and upgrade of the Water Treatment Plant at Signal Hill. This project is on going and expected to be completed in 2021.

Phase 4: Design and Construction of the new Waste Water Treatment Plant (WWTP).

The Preliminary design of this new plant was submitted to the Board in 2012. Recently a site was selected to build the new plant, which is exactly at the same location where, the existing unused building is standing next to the Macerator unit. The anticipated schedule to design, construction and commission of this new Plant is 2024.

The Government of Nunavut (GN) is planning to shut down the Airport Sewage Lagoon and divert the truck sewage into the new WWTP to get treated there.

Currently the GN is contracted with experienced operator ATCO Frontec Ltd. to manage and maintain GN owned water supply and wastewater infrastructure including the Utilidor. The GN is committed to operate and maintain these facilities to satisfy the Water Licence compliancy.

This Utilidor system is the example of the sign of the development of Nunavut and GN feels to get renewed the Type A water licence for 20 yrs. Term to minimize and avoid of the future admin time of the Water licence renewal process.

The Current Water Licence was expired as of March 29,2020. The 20 yrs. term will be expired on March 29, 2040. The Water Permit of the new Type A Water Licence is requested for 216,528 cubic metres annually.



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## The Following documents are attached:

- 1. Updated Renewal application for 20 yrs. Term
- 2. The Water Permit Volume calculation for 2040
- 3. Environmental Management Plan of the construction of the new Pump Station.
- O&M manual of the Macerator Unit

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NIRB screening Decision, May 6,2020.

If you have any questions or concerns, Please contact me at any time.

Bhabesh Roy, M.A.Sc., P.Eng.

Municipal Planning Engineer Community Government Services Baffin Region, Government of Nunavut P.O.Box 379, Pond Inlet, X0A 0S0 Ph-867 899 7314; cell 867 899 1345

Fax-867 899 7328

E-mail: broy@gov.nu.ca