

**ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY UTILIDOR, 2018**

YEAR BEING REPORTED: 2018

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-RUT1520 issued to the Government of Nunavut.

- i) - iii) tabular summaries of all data generated under the “Monitoring Program”; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste based on quantities used.

Month Reported	Quantity of Water Obtained from all sources (litres)	Quantity of Sewage Waste Discharged (Estimated)
January	12,521,355	Same
February	11,371,960	Same
March	13,909,093	Same
April	13,858,559	Same
May	13,771,796	Same
June	11,679,340	Same
July	11,276,542	Same
August	12,043,383	Same
September	11,008,418	Same
October	12,969,791	Same
November	12,776,037	Same
December	14,875,762	Same
ANNUAL TOTAL	152,062,035	152,062,035

Note: The water consumption volume is considered equal to the discharge volume because there is no meter at the end of the discharge pipe.

**ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY UTILIDOR, 2018**

- iv. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;

The entire buried pipes along with the fire hydrants of the utilidor system was replaced and upgraded. The Pump station at Char Lake and the Signal hill water plant are going to be upgraded this summer.

-
- v. A list of unauthorized discharges and summary of follow-up action taken;

In absence of a WWTP, sewage is highly diluted and run into the sea without any further treatment. The Macerator unit is partially working. This process will be continued until the new WWTP is built and commissioned.

- vi. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

All the fire hydrants and Valves were replaced along with the liner systems.
Once the new WWTP is built, the Macerator unit will be abandoned and replaced.

-
- vii. A summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;

The upgrading plan of the Pump station at Char Lake and WTP at Signal Hill is moving forward. The replacement of 2km intake water line from the pump station to WTP was completed. The consultant is working on the contaminated soil remediation Plan at the existing Pump station

- viii. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

The Licensee shall conduct a site specific study for the determination of a Fecal Coliform limit for Sewage Disposal Facility Effluent that maintains the quality of the Receiving waters within reasonable and acceptable limits and submit a Report of the site Specific study to the Board for approval by December 1, 2015. The study shall take into Considerations the receiving water quality objectives provided in the *Guidelines for the discharge of Treated Municipal Wastewater in the Northwest Territories*, 1992 and the Report shall provide recommended fecal coliform limits for inclusion in Part D, Items 2 and 3.

ANNUAL REPORT FOR THE HAMLET OF RESOLUTE BAY UTILIDOR, 2018

The sewer line was under construction at the end of the last summer season. As a result, continuous sewage testing was not possible. However, Sewage effluent flow was monitored and a numerical value for E-coli at the end of the sewer pipe has been established.

The consultant's report was submitted to Nunavut Water Board.

ix. Updates or revisions to the approved Operation and Maintenance Plans.

The O&M manual of the liner system was revised and upgraded. Each unit has its own O&M manual. The new O&M manual of the WTP and Pump station will be available once these are upgraded.

x. **ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**

GN-CGS contracted out this facility to ATCO. They are operating this system and maintaining water quality for the safety of the public health and to comply with the requirements of the Water Licence.

A bypassing system could be implemented at the pump station location as and when required to avoid contaminated water to get into the Utilidor system.

xi. **FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**

GN-CGS is the owner and Licensee of the Utilidor system. The status of this licence is active at present.

GN technical team is working closely with the CIRNAC's inspector and the Water Board to keep this water licence into compliancy.

The Test Lab Results for 2018 are submitted in a separate document.