ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY AIRPORT SEWAGE LAGOON, 2018

YEAR BEING REPORTED: 2018

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-YRB 1621 issued to ED&T of 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	312,772	Same
February	626,907	Same
March	741,014	Same
April	335,048	Same
May	418,241	Same
June	479,159	Same
July	571,445	Same
August	615,542	Same
September	463,702	Same
October	251,399	Same
November	187,754	Same
December	136,838	Same
ANNUAL TOTAL	5,139,821	5,139.821

Note: The water consumption volume is considered equal to the discharge volume. This is the Truck delivery annual quantity.

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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 current Water Licence # 3BM-YRB 1621 has included Strip Lake as the potable water source and Airport Sewage lagoon. The annual chemical analysis of Strip Lake raw water is kept under this licence.
No modifications and or major maintenance work was carried out during this reporting period.

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

Historically, the Sewage Lagoon has a capacity issue because liquid volume varies during the year due to increasing the population growth in the neighbourhood of the airport area. During winter season, the lagoon overflows to the wetland every year. The sewage becomes frozen there and starts melting once temperature warms up. Ultimately the sewage is highly diluted and naturally treated before reaching the receiving body about 2km away.

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

No abandonment and restoration work was carried out during this reporting period. This sewage lagoon will be abandoned and restored when the new wastewater Mechanical Treatment Plant is commissioned.

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 annual water quality monitoring program of the Strip Lake raw water is still remaining under this new licence. Hamlet is conducting sampling and testing of the Strip Lake raw water on annual basis

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

Hamlet has started an aadditional summer sampling of sewage effluent in each summer.

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

The existing sewage lagoon is a non-engineered facility. The existing O&M manual will be followed until any modification takes place to this Sewage Lagoon or the new Mechanical Wastewater Treatment plant is built and commissioned.

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

GN-ED&T owns this facility. This facility will be decommissioned and truck sewage will be redirected to the new WWTP once it is built and commissioned which is expected in 2021/22. This plan is still active.

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

GN-ED&T is working closely with CGS technical staffs and CIRNAC inspector and follow their advice to keep this facility into compliancy.

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The Lab test results for 2018 are submitted in a separate document.