

**ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY AIRPORT SEWAGE LAGOON 2014**

YEAR BEING REPORTED: 2014

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water Licence # 3BM-YRB 0308 issued to the Hamlet of Resolute Bay.

- 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 2014	204,934	Same
February 2014	409,049	Same
March 2014	677,272	Same
April 2014	690,220	Same
May 2014	386,986	Same
June 2014	367,573	Same
July 2014	609,640	Same
August 2014	540,897	Same
September 2014	274,445	Same
October 2014	189,214	Same
November 2014	180,111	Same
December 2014	218,686	Same
ANNUAL TOTAL	4,749,032	4,749,032

Note: The average consumption volume is considered equal to the discharge volume in each month because there is no meter in the Sewage discharge pipe.

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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;

This licence deals only with Airport sewage Lagoon. No modification was made to sewage lagoon during this reporting period.

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

Spill: Sewage overflow occurred during the entire winter season, roughly over 300,000 litres monthly to the wetlands. It was diluted in summer prior to meeting the sea water. Lab tests were taken during emergency.

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

The existing Sewage lagoon will be scheduled to decommission once the new wastewater treatment plant will be built and commissioned. At that time, the entire sewage produced in the Hamlet of Resolute Bay will be treated in the Mechanical plant only.

- 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 low capacity of the existing sewage lagoon and every winter overflow are the concerns of AANDC and NWB.

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

The initial water licence consisted of sewage Lagoon, Water Truck fill station and Waste site located next to the Lagoon. However, Water truck fill station was abandoned and waste site was removed from this licence leaving sewage lagoon as a standalone facility under the licence. Currently this licence is belongs to Government of Nunavut and is on hold until new water licence of the Utilidor system is issued.

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

O&M manual of the sewage lagoon initially submitted to NWB was not adequate. Sewage lagoon is a non- engineered facility. A new O&M manual will be prepared and

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submitted to NWB as the requirement to renew the water licence of this facility.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

GN-CGS is working closely with AANDC and NWB for water licence compliancy. We are maintaining extended sampling and testing program in order to meet the requirements of the monitoring program established in the Licence. We are planning to implement our report card in 2015 to productively operate this facility.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

We are working closely with the recently formed Water Licence Compliance Group (WLCG) to deal with inspector's concerns of the water licence compliancy. Sampling monitoring signs were installed in 2014 and Facility Sign will be installed in summer 2015.

Lab Test Results for Chemical analysis of wastewater in 2014 are submitted in the separate document.



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