

**ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY AIRPORT SEWAGE LAGOON 2015**

YEAR BEING REPORTED: 2015

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 2015	181,186	Same
February 2015	381,196	Same
March 2015	533,774	Same
April 2015	407,671	Same
May 2015	439,114	Same
June 2015	441,832	Same
July 2015	444,974	Same
August 2015	479,637	Same
September 2015	320,779	Same
October 2015	210,0890	Same
November 2015	179,791	Same
December 2015	190,251	Same
ANNUAL TOTAL	4,210,285	4,210,285

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. Truck water is received from the Signal Hill Water treatment plant.

**ANNUAL REPORT
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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;

A significant Sewage overflow occurred during the entire winter season. It was diluted in summer in the wetland area prior to meeting the sea water.

- 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 entire sewage produced in the Hamlet of Resolute Bay will be directed to the Mechanical waste water treatment plant (WWTP) once it is built. A study is also under way to find out the possible reception of truck sewage somewhere in the sewer system and start receiving truck sewage until the mechanical WWTP is built and commissioned. This interim arrangement is expected to be implemented soon to stop overflow during winter season.

- 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 INAC and NWB. A study is underway to divert the truck sewage into the Utilidor sewer line during winter season to stop flow.

- 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 the Department of Economic Development and Transportation (ED&T) of the Government of Nunavut is the licensee of this facility.

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

ANNUAL REPORT FOR THE HAMLET OF RESOLUTE BAY AIRPORT SEWAGE LAGOON, 2015

An O&M manual has been prepared and will be submitted to NWB along with Water Licence renewal application within few months.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

GN-CGS is working closely with INAC and NWB for water licence compliancy. Winter over flow will be dealt very soon to prevent from any future spill.

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 and monitoring program as established by CGS will be implemented to satisfy the requirements of the Water Licence.

Lab Chemical analysis of wastewater in 2016 will be conducted



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