

**ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY (AIRPORT), 2012**

YEAR BEING REPORTED: 2012

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water License # NWB 3YRB 0308 (Airport) 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 (Char Lake only) (Litres) Estimated	Quantity of Sewage Waste Discharged (Truck Discharge volume only) Litres (Estimated)
January 2012	3,245,014.28	2,431,463.80
February 2012	3,245,014.28	2,431,463.80
March 2012	3,245,014.28	2,431,463.80
April 2012	3,245,014.28	2,431,463.80
May 2012	3,245,014.28	2,431,463.80
June 2012	3,245,014.28	2,431,463.80
July 2012	3,245,014.28	2,431,463.80
August 2012	3,245,014.28	2,431,463.80
September 2012	3,245,014.28	2,431,463.80
October 2012	3,245,014.28	2,431,463.80
November 2012	3,245,014.28	2,431,463.80
December 2012	3,245,014.28	2,431,463.80
ANNUAL TOTAL	38,940,171.36	29,177,565.60

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Note: The Char Lake is the only Community potable water source from where water is being extracted by pumping system. Water is being treated by the Water Treatment Plant located at Signal Hill. From this Treatment Plant, treated water is being delivered to Airport and its associated facilities by trucking system only. Wastewater is also being collected from these facilities and dumped into the Airport Sewage lagoon for natural treatment. There is no meter existing at the discharge pipe of the Sewage Truck. Therefore the monthly average discharge volume is considered equal to the monthly average consumption volume 2,431,463.80L by the Airport and its associated facilities.

- 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;

Remedial works were carried out in the pump house, water treatment plant and water storage tanks. This facility is licensed to CGS and being maintained by a CGS contractor ATCO on daily basis. ATCO is also delivering treated water to Airport and its associated facilities by Water Trucks. Also they are collecting sewage from these facilities by a Sewage truck and dump into the Airport Sewage Lagoon for natural treatment.

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

Lagoon effluent gets final treatment in the wetlands prior merging into 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 Airport Sewage Lagoon will be abandoned and restored once the new WWTP is built and commissioned. At that very time, entire liquid wastes of the community will be treated only in the WWTP.

- 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 studies on Nunavut wide solid waste management was completed recently by Arktis Solutions Inc. The new guidelines have been developed. The entire solid wastes of the Community will be dealt under the same guidelines once the new Waste Management facility is built and commissioned.

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

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Airport Sewage Lagoon and present waste management are the concerns of the Nunavut Water Board. Airport Sewage Lagoon was originally licensed to ED&T.

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

O&M manual will be prepared once the entire utilidor system is upgraded including Construction of the new WWTP. O&M for solid waste site will be ready once it is built and ready to commission.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

CGS is working with the NWB to resolve issues and concerns of the Water License.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

A consulting firm Arktis Solutions Inc. is engaged to assist CGS to address AANDC Inspector's concern on waste management. CGS has engaged a contractor ATCO for extended sampling and testing program for water, wastewater and leachate coming out from the landfill site for Water License Compliancy.

The Test Results for 2012:



B12-26731_R.pdf



B12-23825_R.pdf



B12-14979_R.pdf