

**ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY, (UTILIDOR SYSTEM) 2013**

YEAR BEING REPORTED: 2013

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License # 3BM-RUT 1012 (Utilidor System) 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): Only from Char Lake	Quantity of Sewage Waste Discharged (Estimated, litres): From the Pipe Only
January 2013	7,559,542	Same
February 2013	6,845,970	Same
March 2013	8,825,572	Same
April 2013	7,007,084	Same
May 2013	7,114,714	Same
June 2013	7,029,067	Same
July 2013	8,654,269	Same
August 2013	7,181,824	Same
September 2013	6,712,087	Same
October 2013	7,532,699	Same
November 2013	7,445,601	Same
December 2013	7,535,074	Same
ANNUAL TOTAL	89,443,503	Same

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Note: Char Lake is the only drinking water source from where water is being extracted by Pumping system and treated in the Signal Hill Water Treatment Plant prior to distribution to the Community by Utilidor system and Trucking to the Airport facilities and other Government buildings. The annual volume of water delivered by Utilidor system and recorded by Hamlet housing meters was 12,966,978.41 L. The total volume of water extracted from the Char Lake in 2013 and recorded by the pumphouse flowmeter was 89,443,503L. The total truck delivery volume of water to the Government and Airport facilities has been accounted for only 5,002,107 L .It shows a huge loss for 71,474,417.59L which is unaccounted. The water permit under this licence is 126,020,000L.

- 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;

Some rehabilitation works were carried out in the pump house, water treatment plant, water storage tanks and Utilidor system. This facility is licensed to CGS and being maintained by a CGS contractor ATCO on daily basis. CGS's AMD is managing ATCO's contract.

A contract is being awarded soon for major rehabilitation of the entire Utilidor system and also building a new WWTP. Work on the Utilidor will start this summer 2014.

- v. a list of unauthorized discharges and summary of follow-up action taken;
Spill #2013297, dated 8/5/2013; Jet A, 20L, Cunningham inlet
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- vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

An Engineering consulting firm, exp. Services Inc., has been hired for detailed design for the replacement of the existing Utilidor system. The design is complete. Tender packages were developed, advertised and right now in the process of hiring a contractor to start construction this summer 2014. Poor and aged pipe lines will be replaced and stockpiled at an enclosed area located next to the Airport Sewage Lagoon. Later on a decision is made if the old piping will be backhauled south.

- 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 design of the waste management of this Community is complete. Design is required Water Board approval prior to proceed construction. The solid

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Waste management site will be licensed to the Hamlet once built and commissioned. The Hamlet of Resolute Bay is being served entirely by the Utilidor system with the exception of RCMP building, Airport site and the polar shelf project along with other scattered govt. buildings will remain on the trucked system. The Consultant is working on the optimization of the entire system for better services.

- 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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Once Utilidor system is optimized, the sewage lagoon will be decommissioned. No Sewage lagoon will exist. All raw sewage of the Community will be treated in the new Wastewater Treatment Plant once built and commissioned. The WWTP will have its own O&M manual prepared by exp Services Inc.

- ix. updates or revisions to the approved Operation and Maintenance Plans.
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O&M manual will be prepared once the entire utilidor system is upgraded. O&M for Solid waste site will also be prepared by Arktis solution Inc. and ready once it is built and commissioned.

x. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

CGS is working with the partners to resolve issues and concerns of all the Environmental facilities including all types of waste management of the Community. CGS is also working forward dealing with AANDC inspection report and Water Licence compliancy with NWB.

xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

The Consulting Engineering firm exp. Services Inc. is engaged to assist CGS to address NWB concerns and Water License compliancy. Extended sampling and testing Program for water, wastewater and Leachate coming out from the landfill site are being managed by CGS contractor ATCO. CGS is implementing a new Report Card in 2014 which will help to closely monitor the operation of the system.

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The Lab Test Results for 2013 are as follows:



B13-18916_R.pdf



B13-18913_R.pdf



B13-13868_R.pdf



B13-28163_R.pdf



B13-21854_R.pdf



B13-21846_R.pdf



B13-28166_R.pdf



B13-28166_R.pdf

B12-14979_R.pdf