

ANNUAL REPORT FOR THE MUNICIPALITY OF ARVIAT, 2013

YEAR BEING REPORTED: 2013

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence **3AM-ARV1015** issued to the Hamlet of Arviat.

- 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 |
|---------------------|--|-------------------------------------|
| January 2013 | 7,140,851.10 | Same |
| February 2013 | 6,460,473.40 | Same |
| March 2013 | 6,928,125.40 | Same |
| April 2013 | 6,619,917.76 | Same |
| May 2013 | 6,777,028.53 | Same |
| June 2013 | 6,607,188.00 | Same |
| July 2013 | 6,853,929.90 | Same |
| August 2013 | 6,942,504.00 | Same |
| September 2013 | 6,768,278.40 | Same |
| October 2013 | 7,188,547.10 | Same |
| November 2013 | 7,256,243.70 | Same |
| December 2013 | 7,535,727.50 | Same |
| ANNUAL TOTAL | 83,078,814.79 | 83,078,814.79 |

NB: No meter is existing to measure the sewage discharge volume. Therefore water consumption volume is considered as equal volume to the Sewage discharge volume.

ANNUAL REPORT FOR THE MUNICIPALITY OF ARVIAT, 2013

- 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;
- no major maintenance or modifications work has been undertaken during 2013
 - A RO unit was procured to treat one million litres of sea water, lake water or brackish water every day. Original supplier was contacted in the fall of 2012 for making RO unit as plug and Play so that it can be easily transported by air to any of the communities in case of emergency.
-
- v. a list of unauthorized discharges and summary of follow-up action taken;
Spills:
2013005, 2013-01-10, 4 miles East of Arviat, Helicopter
2013091, 2013-03-19, near the Arctic College, Hydraulic oil, 60L.
2013183, 2013-06-03, Arviat High School, Heating Fuel, 300L
2013187, 2013-06-04, lot 493, Heating fuel, 15L
2013241, 2013-07-08, Bay 2 Garage, Heating Fuel, 50L
2013274, 2013-08-02, Hydraulic oil, 200L
-
- 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 or restoration work completed in 2013 and none planned for 2014
-
- vii. 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;
-
- An engineering consultant ARKTIS Solutions Inc. has completed a feasibility study on Nunavut Communities waste management facilities and recommended new guidelines. CGS is planning to implement these new standard and criteria for the future waste management projects as the GN guidelines.
William Engineering Ltd is conducting water quality study on the existing water source and the proposed secondary water source. This study will be completed in 2014.
-
- viii. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and updates or revisions to the approved Operation and Maintenance Plans.

ANNUAL REPORT

- O&M plans will be updated as the facilities are updated and modified or the new construction takes place.
- No specific instruction was received for any of the items under this License on O&M plan.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Attached to this report are the lab analysis results that were collected, submitted and analysed from the sewage lagoon as required by the licence. Weekly water sample results that are collected and submitted to test for total coliform and E. coli are available.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

The Hamlet is working closely with CGS to satisfy the requirements of Water Licence and the demand of the AANDC inspector.

The 2013 Lab Test Results are attached:



L1323023_COA.PDF



L1341687_COA.PDF



L1351289_COA.PDF