

**ANNUAL REPORT
FOR THE HAMLET OF SANIKILUQ, 2016**

YEAR BEING REPORTED: 2016

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-SAN1520 issued to the Hamlet of Sanikiluaq.

- 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 2016	2,700,609.40	Same
February 2016	2,684,229.50	Same
March 2016	2,815,013.10	Same
April 2016	2,788,528.80	Same
May 2016	2,919,922.90	Same
June 2016	2,797,189.80	Same
July 2016	2,280,267.80	Same
August 2016	3,079,768.90	Same
September 2016	2,962,064.50	Same
October 2016	3,128,119.10	Same
November 2016	3,240,568.60	Same
December 2016	3,199,559.00	Same
ANNUAL TOTAL	34,595,841.40	34,595,841.40

Note: The water consumption volume is considered equal to the discharge volume

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because there is no meter at the end of the discharge pipe.

- 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;
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Sanikiluaq source water and treated water have shown higher degree of sodium concentration. The consultant is investigating the possible reason to rectify the problem.

No structural modification or repair was done to any of the structures under this water licence during this reporting period.

- v. A list of unauthorized discharges and summary of follow-up action taken;
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Sanikiluaq is treated their wastewater in the natural lagoon and this facility has a capacity issue. During the summer season, this lagoon overflows to the wetland and the effluent is being further treated in the wetland prior to reaching the receiving body about 3km away.

- vi. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
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No abandonment and restoration work was conducted during this reporting year. The existing solid waste sites will be decommissioned and abandoned once the new facility is built and commissioned. No work in the waste site is expected next year. However, the existing water treatment process is expected to be upgraded by adding a storage tank.

- 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;
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The planning for the better waste management in the Community is in progress.

The source water quality is monitored on bi-weekly basis. The Secondary water source, Windy Lake, is being investigated at 8 km away. The design of the storage tank next to WFS is moving slowly because a long term sustainability plan is being studied to permanently improve the water quality and upgrade the water distribution system in Sanikiluaq.

- 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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The existing waste management is a big concern. Right now Hamlet is segregating

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wastes in proper manner. Batteries are being stocked in the sea scan.

RO Units were installed in the buildings belong to housing department and water quality is being monitored to identify the efficiency of these RO units.

Dalhousie has completed the field works and will be presenting the final report on the wetland efficiency in 2017.

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

The O&M manuals of the water supply, waste management and wastewater treatment facilities were already submitted to NWB. No update or revision is required at this stage.

x. **ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**

Hamlet has started extended sampling and testing program. They have segregated wastes already. They are interested to implement the CGS report card to closely monitor and maintain the Environmental facilities more productively.

Dalhousie University will be completing the wetland efficiency study in 2017. Following the recommendation of this study, the O&M manual of the wastewater treatment system might be upgraded.

xi. **FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**

Hamlet is working closely with the Water Licence Compliance Group (WLCG) and receiving direction to move forward in order to renew or amend the Hamlet water licence.

The Hamlet has currently an active water licence

The Test Lab Results for 2016 are submitted in a separate document.