

ANNUAL REPORT FOR THE HAMLET OF IGLOOLIK, 2017

YEAR BEING REPORTED: 2017

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM –IGL1520 issued to the Hamlet of Igloolik.

- 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 2017	4,616,668.40	Same
February 2017	4,413,932.20	Same
March 2017	4,357,648.40	Same
April 2017	3,847,452.60	Same
May 2017	4,100,935.30	Same
June 2017	3,391,878.20	Same
July 2017	3,889,061.30	Same
August 2017	3,857,935.00	Same
September 2017	4,390,755.00	Same
October 2017	4,549,730.80	Same
November 2017	4,302,961.10	Same
December 2017	4,304,041.20	Same
ANNUAL TOTAL	50,023,000.10	50,023,000.10

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

ANNUAL REPORT FOR THE HAMLET OF IGLOOLIK, 2017

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

The Practical scenario was different.

The water storage reservoir was expanded during last summer. During construction, the reservoir was made empty. Once the construction was completed, it was filled up. The estimated quantity of water required was about 126,440,000 litres. Also during construction, three Trucks were filled daily directly from the south lake for 30 days and extracted roughly 10,440,000 litres.

Therefore total extracted volume in 2017 from South lake was estimated about 136,880,000 Litres.

- 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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The construction of the new sewage lagoon cell began in 2016 and will be completed in 2018.

The water intake pipe line was replaced in 2016 and the construction of the new water treatment plant (WTP) and water reservoir were completed in 2017. The water Treatment plant was in testing phase.

- v. A list of unauthorized discharges and summary of follow-up action taken;
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The cells of the existing sewage lagoon functioned as exfiltration process. The effluent then partially was treated in the wetland prior to reaching the receiving body. This happened prior to start construction works.

- 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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Once the new solid waste management facility is built and commissioned, the existing site will be abandoned and restored. No abandonment and restoration work was conducted during this reporting year.

In 2017, the rehabilitation of the existing three cells lagoon began. Three cells will be converted into two containment cells lagoon and these are expected to be completed in 2018.

- 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 water licence was amended to accommodate the expansion of the water Reservoir and construction of the new water treatment plant in order to improve the

ANNUAL REPORT FOR THE HAMLET OF IGLOOLIK, 2017

water quality and water distribution system in the community. The design of the new waste management facility is still on hold.

- 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 improvement of water supply system and wastewater treatment facility is expected to be completed in 2018.

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

Hamlet is planning to install a flow meter and a Fish screen with the intake pipe which is used to extract water from the South Lake in the summer in 2018 prior to start extracting water from the lake.

- ix. Updates or revisions to the approved Operation and Maintenance Plans.
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The Sewage Lagoon and Waste Management site are non-engineered facilities. However, O&M manuals for both facilities were developed and submitted to NWB. The existing manual of the water truck fill station was also sent to NWB at the same time.

The O&M Manuals for the WTP and Wastewater treatment facility will be upgraded once the entire construction is completed in 2018.

The new O&M manual will be prepared once the new waste site is built. This project is in the planning process.

x. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Hamlet started extended sampling and testing program already. They have segregated wastes and stock piled batteries in the sea can. They are also planning to implement the CGS report card soon to closely monitor and maintain Environmental facilities more productively.

Hamlet constructed more than 2km intake water pipe line from South Lake to the water storage Reservoir in 2016. The water treatment plant and the water storage reservoir were completed in 2017. Whereas the entire construction of lagoon cells is expected to be completed in 2018.

xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Hamlet is working closely with the Water Licence Compliance Group (WLCG) and

**ANNUAL REPORT
FOR THE HAMLET OF IGLOOLIK, 2017**

receiving direction to move forward in order to renew or amend the Hamlet water licence.

Fish Lake is considered as the Hamlet's secondary water source.

Hamlet has an active water licence.

The Test Lab Results for 2017 are submitted in a separate document.