

**ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY AIRPORT SEWAGE LAGOON, 2017**

YEAR BEING REPORTED: 2017

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License # 3BM-YRB1621 issued to ED&T of the Government of Nunavut.

- 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 | 286,313 | Same |
| February | 451,519 | Same |
| March | 646,455 | Same |
| April | 392,783 | Same |
| May | 495,616 | Same |
| June | 506,345 | Same |
| July | 617,815 | Same |
| August | 655,002 | Same |
| September | 517,892 | Same |
| October | 269,584 | Same |
| November | 175,934 | Same |
| December | 158,659 | Same |
| Annual Total | 5,173,917 | 5,173,917 |

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

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- 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;

Strip Lake is kept under this Licence # 3BM-YRB 1621 as the water source. The annual chemical analysis of Strip Lake is monitored by the Hamlet of Resolute Bay.

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

The Sewage Lagoon overflows every winter. The sewage becomes frozen in the wetland and starts melting once temperature warms up. Ultimately the sewage becomes highly diluted and naturally treated before reaching the receiving body about 2km 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;

No abandonment and restoration work was completed this reporting report and no plan also for the next year.

- 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 annual water quality monitoring program of Strip Lake raw water is still kept under this new licence. Hamlet is monitoring the raw water quality in summer and winter seasons.

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

Additional summer sampling points for sewage effluent have been added and monitored under the new Water Licence # 3MB-YRB 1621. This facility will be kept active until the new WWTP is built and commissioned.

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

The existing sewage lagoon is a non-engineered facility. An O&M manual was already sent to NWB.

- x. **ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**
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GN-ED&T owns this facility. This facility will be decommissioned and truck sewage will be redirected to the new WWTP once it is built and commissioned, which is expected in 2021/22.

xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

GN-ED&T is the owner and Licensee of this Facility. GN-ED&T is working closely with CGS for the compliancy of this Licence.

The Lab test results for 2017 are submitted in a separate document.