

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

YEAR BEING REPORTED: 2016

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-PAN1417 issued to the Hamlet of Pangnirtung.

- 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	4,220,339.90	Same
February 2016	4,213,613.59	Same
March 2016	4,539,453.00	Same
April 2016	4,090,608.46	Same
May 2016	4,536,487.06	Same
June 2016	4,025,558.95	Same
July 2016	3,290,694.36	Same
August 2016	3,694,136.81	Same
September 2016	2,925,920.46	Same
October 2016	4,117,566.88	Same
November 2016	4,002,907.99	Same
December 2016	3,714,856.08	Same
ANNUAL TOTAL	47,372,143.54	

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

ANNUAL REPORT FOR THE HAMLET OF PANGNIRTUNG, 2016

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;
-

Wastewater Treatment Plant (WWTP): The mechanical treatment plant has been optimized adding a membrane system. Also accommodating Fish plant effluent.

Water Treatment Plant: A new water Treatment plant was built and commissioned. The plant is being calibrated currently. The old plant is still there in case of emergency.

-
- v. A list of unauthorized discharges and summary of follow-up action taken;
Untreated sewage was discharged into the sea during WWTP maintenance for few days. A proper notification was given to INAC prior to start discharging untreated sewage into the sea. This was required for Plant maintenance period.
-

- 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 conducted during this reporting year. The old water Treatment Plant will be abandoned once the new plant functions satisfactorily.
-

- 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;
-

A Sill Contingency Plan (SCP) along with WWTP bypass technology has been developed and is planned to implement as required.

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

(1) Current waste management, (2) wastewater treatment and (3) water supply system were the concerns of the Nunavut Water Board. The items 2 and 3 are satisfied. The work is in progress for item 1 and expected the new project in next 3 to 4yrs.

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

The O&M manual of the Water Treatment Plant has been prepared and the

ANNUAL REPORT FOR THE HAMLET OF PANGNIRTUNG, 2016

Wastewater Treatment Plant has been updated. The O&M manual for the existing non engineered waste management facility will be kept as it is until the new project is built. This manual was sent to NWB already. The other two will be submitted to NWB along with the Type A Water Licence (WL) application. This (WL) renewal application is currently with NIRB for their screening process.

x. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

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

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 average annual water consumption is very close to 50,000 cubic meters. The actual water extraction volume annually might exceed or very close to 60,000 cubic meters. Therefore Hamlet is working with NPC, NIRB and NWB for renewal of the Water Licence from Type B to Type A.

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