# YEAR BEING REPORTED: 2013

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence 3AM-GRA1015 issued to the Rankin Inlet Utilidor System.

.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	50,642.64m3	Same
February 2013	49,601.36m3	Same
March 2013	51,131.95m3	Same
April 2013	51,536.89m3	Same
May 2013	52,557.54m3	Same
June 2013	50,964.36m3	Same
July 2013	46,589.25m3	Same
August 2013	47,954.21m3	Same
September 2013	49,357.54m3	Same
October 2013	51,946.65m3	Same
November 2013	50,984.25m3	Same
December 2013	49967.96m3	Same
ANNUAL TOTAL	603,234.60m3 OR 603234600 Liters	603,234.60m3 OR 603234600 Liters

NB: The Waste water discharge volume is considered to the equal volume of drinking water consumption volume since no metering system exists.

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:

#### **Water Source:**

Nipissar Lake Replenishment Pipeline is complete. Pipeline has been tested but
yet not being utilized due to pending regulatory approvals. Design consultant was
Stantec Architecture Ltd.

### **Utilidor System:**

- Sewage Treatment Plant Phase 1 completed- installed monster auger & effluent pumps
- Sewage Treatment Plant Phase 2 will be completed in summer 2014- installed 2<sup>nd</sup> monster auger, similar to Phase 1, extension of building, external bypass for Nuvuk and upgrades to HVAC and heating system and address concerns raised by WSCC inspection
- Sewer outfall pipe repair assessment completed in 2011, repair completed with some deficiencies summer 2013, deficiencies will be removed in summer 2014.
- Utilidor District Metering upgrades completed.
- Area 5 phases 1& 2 Utilidor mains and services completed in summer of 2012, Phase 3A, design is complete, tender ready by exp services Inc., an engineering consulting company.
- In 2012 CGS purchased and installed district water meters to identify potable water losses. These meters were installed and commissioned in 2013.
- v. a list of unauthorized discharges and summary of follow-up action taken;

### Spills:

2013161, 2013-05-19, kissaruk Coop: Diesel, 250L

2013164, 2013-05-21, Housing Authority, Diesel fuel, 1200L

2013185, 2013-06-04, 202-66D, Imagsug street, Diesel fuel, 20L

2013192, 2013-06-03, Unit 532, Diesel fuel, 113L

2013193, 2013-06-06, NCC blue row housing-66<sup>th</sup> Avenue, P-50, 378 L

2013242, 2013-07-08, Behind Hamlet garage, Oil or hydraulic Oil, 205L

2013262, 2013-07-23, Rankin inlet housing association, Diesel Fuel, 14L

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vi. 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 were carried out this year and no anticipation 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;

Yes.

**Monitoring Program:** Winnipeg based an Environmental accredited Lab ALS is being used for testing all water and wastewater samples.

Water License: Part H: GRA-1: Raw water supply prior to treatment: It is being followed and Lab Test results are attached.

**Part H: GRA-5:** Water Level gauge in Nipissar Lake: Water level was monitored and the monitoring data is attached.

Part H: Effluent discharge from Sewage Treatment Facility: Lab test Results are attached.

**Study:** A study on water quality surveys is in progress on the Nipissar Lake and future Secondary sources. This study will be completed in 2014/15. The Engineering Consulting company is William Engineering Ltd.

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

- The Utilidor Water Licence deals with water supply and wastewater treatment Systems. The current source of water is Nipissar Lake and the Pump station is located at the source.
- The Winnipeg based accredited lab ALS is being used for testing water, sewage and leachate samples following their QA/QC plan.
- A meter will be activated to measure the wastewater effluent once design is finalized and construction is complete.
- ix. updates or revisions to the approved Operation and Maintenance Plans.

The Operation and Maintenance Plans for the Water distribution system and Wastewater collection system will be revised and updated once water distribution system and wastewater collection system are optimized along with the WWTP.

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### ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

- The Licensed facilities are being maintained and operated in such a manner as to prevent structural failure to the satisfaction of the inspector.
- Follow approved "Environmental Emergency Contingency Plan"
- Follow National Drinking Water guidelines
- Continue extended sampling and testing program for water and wastewater
- Follow Spill Contingency Plan

### FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

The GN-CGS is the Licensee of the Utilidor system. CGS successfully addressed the concerns of the inspector, Inspection dated August 2, 2011:

- Annual reporting
- Water Level gauge
- Extended monitoring program.
- Extensive sampling and testing program will be followed as per the Water Licence since 2014.

The attachments are as follows:

1. Lab results of the bacteria tests of treated water

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