

ANNUAL REPORT FOR THE HAMLET OF CHESTERFIELD INLET

YEAR BEING REPORTED: 2009

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License (NWB3CHE0308) issued to the Hamlet of Chesterfield Inlet.

- 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;

Water quantity results for monitoring stations CHE-1 and CHE-3 are provided in the table below. Samples for detailed chemical, physical and biological analysis required at CHE-2 and CHE-4 (for the months of May to September, inclusive) were not taken by the Hamlet in 2009 and results are not available.

Table 1 – Water quantity data for the water and sewage systems at Chesterfield Inlet, NU

Month Reported	Quantity of Water Obtained from all sources (m ³) ^a	Quantity of Sewage Waste Discharged (m ³) ^{b,c}
January	780.5 ^d	780.5
February	888.3 ^d	888.3
March	1,069.6 ^d	1,069.6
April	989.4 ^d	989.4
May	880.5 ^d	880.5
June	1,042.4	1,042.4
July	1,179.3	1,179.3
August	1,243.2	1,243.2
September	1,166.8	1,166.8
October	1,160.8	1,160.8
November	1,165.3	1,165.3
December	1,065.2	1,065.2
ANNUAL TOTAL	12,631.3 ^{e,f}	12,631.3 ^{e,f}

NOTES ON WATER QUANTITY TABLE:

^a Quantity of water obtained is equivalent to water quantity monitoring station CHE-1

^b Quantity of sewage waste discharge is equivalent to water quantity monitoring station CHE-3

^c Quantities of sewage discharged not provided; assumed to be equal to quantity of water

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- consumed
- ^d Meter was reportedly not working properly; volume is potentially underestimated
- ^e Total annual volumes potentially underestimated due to January to May meter malfunction
- ^f Total annual volume of water consumed in 2009 is below the licensed maximum permitted quantity of 20,000 m³

- 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;

NONE

- v. a list of unauthorized discharges and summary of follow-up action taken;
- Spill Reports (obtained from GNWT/GN Spills Database):

2009093 – 75 to 100 L of furnace fuel spilled due to broken fuel line on exterior fuel tank; approximately 10 to 12 m² was impacted. The impacted area was covered with snow; the following day the snow was removed and disposed of at the solid waste facility.

2009315 – approximately 2 L of furnace fuel was spilled; the Hamlet water truck was backing up and broke fitting inside a residence. Approximately 2 ft by 2 ft was impacted. The spill was cleaned up with bleach.

2009371 – 25 L of P-50 heating oil was spilled outside of the Hamlet tradeshop due to a rusted bottom on the holding tank. The fuel was pumped out of the tank and put into four drums. The hole on the bottom of the tank was plugged with Magic Patch obtained from the local conservation officer. Contaminated soil was excavated.

- vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

NONE

- 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;

NONE

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

NONE

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

Operation & Maintenance Manual currently being developed (April 2010)

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Construction of improvements to the sewage treatment tundra wetland are expected in mid 2010.

Construction of a new pumphouse, including a new filtering and chlorination system for the water distribution system is expected in mid 2010.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS: