

APPENDIX-‘A’

Annual Reports: 2011 and 2012

Hamlet of Gjoa Haven

ANNUAL REPORT

YEAR BEING REPORTED: 2011

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water Licence # **NWB3GJO-0409** issued to the **Gjoa Haven**

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	3,119,195	Same
February	2,723,180	Same
March	3,045,389	Same
April	2,891,030	Same
May	2,943,596	Same
June	2,850,732	Same
July	2,941,163	Same
August	2,841,695	Same
September	2,836,964	Same
October	2,913,852	Same
November	2,420,308	Same
December	2,539,230	Same
ANNUAL TOTAL	31,229,370	Same

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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;

- Existing water supply system in operation, SCADA updating and pumps at intake system maintained with the feedback time to time.
 - New sewage lagoon facility in design stage including wetland connection. Lagoon berm repair and increasing in Free-board height has been carried during the year 2010-11. Such repair prevents the possibility of overflow and prevents leakage of sewage effluent from the current Lagoon during the summer time. Also increase in height increases the ability of the Lagoon in full capacity as it was designed for.
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v. a list of unauthorized discharges and summary of follow-up action taken;

- No unauthorized discharge listed during this year.
 - No unauthorized discharge also happened during the period 2009-2010
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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 abandoned or restoration for water system, sewage waste and solid waste facilities for this year, but expecting an abandonment & restoration plan for current sewage lagoon sometime in summer 2013 once the new sewage lagoon be completed and operation.

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;

Existing Lagoon was losing capacity due to erosion of the berm and lowering freeboard. Board requested to review the Lagoon situation and effluent quality discharging into wetland (INAC report 2010)

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

Water Licence remains expired with NWB as reported by INAC report 2011 for non-Compliance of certain items such as 'Monitoring program, annual reports with quantity of water drawn and waste disposal, QA/QC plan for sewage and solid waste sites, Operation and Maintenance manual of sewage and solid waste facilities, spill contingency and emergency response plan on existing sewage lagoon and solid waste site.

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

Existing Operation and Maintenance manuals are still in effect. But Board has notified the Hamlet that such O & M manual not yet submitted. Licence condition requires the O & M manual to be submitted with the Board within six months of the Licence approval. Since long time expires of the License status, the hamlet is proposing to have updated manuals instead for facilities those were upgraded by this time.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Dillon Consultants has been working on sewage lagoon issue which has been addressed for water licensing renewal requirements. Reports requiring lagoon improvement as well as water licensing information expecting to be received by the end of 2012

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Attempted for waste sampling in compliance with the regulation, but too late for this season

YEAR BEING REPORTED: 2012

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water Licence Number **NWB3GJO-0409** issued to the **Gjoa Haven**

- 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	2,769,115	Same
February	2,820,137	Same
March	2,817,192	Same
April	3,162,236	Same
May	2,875,617	Same
June	2,578,271	Same
July	3,072,103	Same
August	3,225,301	Same
September	2,999,728	Same
October	3,440,088	Same
November	3,152,038	Same
December	(estd.) 3,140,530	Same
ANNUAL TOTAL	32,911,826	Same

Note: Tabular summaries of all data generated under "Monitoring Program" are attached with this Report in separate pages. (Refer to the attached files)

- 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:
- Existing water supply system, transmission line, re-heating stations and treatment system remains in operation with same as below and volume of water uses:

Water intake from Swan lake, 2-standalone generator sets, two pumps with remotely off/on system from Treatment plant using SCADA monitoring, twin truck-fill facility at the treatment plant and alternate emergency truck-fill facility at the outside of intake pumphouse. 150mm diameter HDPE transmission line housed in another 50 mm diameter hot water circulation line, two re-heating station in between and two re-heating facilities at the pumphouse & at the entrance of water to treatment plant.

- New sewage lagoon facility in design stage including wet land extension for effluent discharge from new Lagoon.

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

No unauthorized discharge listed by the Board to follow up

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 abandoned or restoration work completed during the year 2012.

But construction for new sewage lagoon and improvement of wet land in process starting late 2012 and expected completion in 2013. Decommissioning of existing sewage lagoon will take place once new lagoon start in operation.

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;

- NWB has advised to propose for a 'Short Term Plan and undertaking with regard to the part G, item 1, for Abandonment & Restoration plan, O & M manual for Sewage lagoon and Solid Waste Sites, Spill contingency Plan be completed six (6) months prior to decommissioning of existing lagoon.
- Capital program for new sewage lagoon construction project expected completion by end of 2013. Construction of new sewage lagoon still in progress, so as Operation and Maintenance Plan and other plans. Once finally determined the completion date, abandonment and restoration plan of existing sewage lagoon will be completed and submitted to NWB for review. Meanwhile, preparation for "short Term Plan for compliance" is compiling to the Board.
- Capital program is not included the Solid Waste facility improvement, unless a separate project undertaken which are already in proposal and waiting for Federal Funding or Donor assistance. However, annual monitoring and maintenance are continued since summer 2012 including waste dump separation, segregation of metals and toxic materials, retention of leachate & effluent, sampling/decant of leachate/effluent, prevention of illegal dumping and security of facility access. Short Term Plan will be covered also such activities and comprehensive training.

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

Water licence remains expired with NWB since February 01, 2009 as reported without

amendment and extension for non-compliances. The Board has requested to submit the Annual Reports (missing since 2010), O & M update for sewage & solid waste site and operators training schedule as a part of monthly monitoring program. Hamlet is submitting such reports with the Board for review.

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

Not at this stage, but expecting a new O & M manual for sewage and solid waste site facilities by the end of Dec 2013 once new sewage lagoon will start operation and EXP complete the survey & preparation of O & M manual for solid waste site including full training program for operators.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Dillon Consultants has been working on current sewage lagoon abandonment and restoration plan; activities of this current lagoon will be taken over by the new engineered lagoon which is currently under construction. Such abandonment and restoration plan will be updated with the Board by Oct 2013 once the new lagoon construction completion expected by the end of Dec 2013.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Annual Reports 2011 and 2012 of water drawn and sewage disposal are submitting to the Board for review which has been missing and were not included in the previous reports of INAC (AANDC) and NWB. Also details of last monitoring program, sample results and information on training schedule are submitting with the compliance plan for board review.
