

PLAN FOR COMPLIANCE LICENCE NO. NWB 3 BM-PAN 0810

PANGNIRTING PLAN FOR COMPLIANCE

License Condition	Status of Compliance	Short Term Plan for Compliance	Schedule for Implementation of Short Term Plan for Compliance (including funding status where applicable to municipal developments)	Long Term Plan for Compliance	Schedule for Implementation of Long Term Plan for Compliance (including funding status where applicable to municipal developments)
Part B: General Conditions					
B - 1 The Licensee shall file an Annual Report with the Board not later than March 31st of the year following the calendar year reported which shall contain the following information: a) tabular summaries of all data generated under the "Monitoring Program"; b) the monthly and annual quantities in cubic meters of fresh water obtained at the Water Supply Facilities; c) the monthly and annual quantities in cubic meters of each and all waste discharged; d) a summary of modifications and/or major maintenance work carried on the water Supply and Waste Disposal Facilities, including all associated structures and facilities; e) a list of unauthorized discharges and summary of follow-up action taken; f) a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year; g) Any updates or revisions for manuals and plans (i.e. Operation and Maintenance Manual) as required by changes in operation and/or technology; h) a summary of any studies or reports requested by the Board that relate to water use and waste disposal or restoration, and a brief description of any future studies planned.	In compliance. The Annual report for 2010 is attached	N/A	N/A	N/A	N/A
B - 2 The Licensee shall comply with the "Monitoring Program" described in this License, and any amendments to the "Monitoring Program" as may be made from time to time, pursuant to the conditions of this License.	Partially in compliance.	Solid waste management facility under a Water License is not engineered. This project was on hold almost a year and O&M is not available.	A consultant is retained for this project and they are going to start back working on the design from this month.	The consultant has to present a technology on waste management acceptable by the CGS and Hamlet.	O&M will be available once the new facility is built and commissioned. This is expected in 2014-15
B-3 The "Monitoring Program" and compliance dates specified in the License may be modified at the discretion of the Board.	Yes, it should be agreed upon by both the parties.	N/A	N/A	N/A	N/A
B - 4 Meters, devices or other such methods used for measuring the volumes of water used and waste discharged shall be installed, operated and maintained by the Licensee.	In compliance and presented to the Annual report for 2010 attached.	N/A	N/A	N/A	N/A
B - 5 The Licensee shall, within ninety (90) days after the first visit by the Inspector following issuance of this License, post the necessary signs to identify the stations of the "Monitoring Program". All signage postings shall be in the Official Languages of Nunavut.	In compliance.	N/A	N/A	N/A	N/A
B - 6 The Licensee shall immediately report to the 24-Hour Spill Report Line (867-920-8130) any spills of waste, which are reported to, or observed by the Licensee, within the municipal boundaries or in the areas of the Water Supply or Waste Disposal Facilities.	In compliance. Hamlet is aware about it.	N/A	N/A	N/A	N/A
B - 7 The Licensee shall ensure a copy of this License is maintained at the Municipal Office at all times. Any communication with respect to this License shall be made in writing to the attention of: (a) Manager of Licensing; (b) Inspector Contact and (c) Analyst contact.	In compliance. Hamlet maintains these requirements.	N/A	N/A	N/A	N/A

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B - 8 The Licensee shall submit one paper copy and one electronic copy of all reports, studies, and plan to the Board. Reports or studies submitted to the board by the Licensee shall include a detailed executive summary in Inuktitut.	In Compliance. This is being followed.	N/A	N/A	N/A	This requirement will be followed during the life time of this License.
B- 9 The Licensee shall ensure that all document (s) and correspondence submitted by the Licensee to the Board are received and Acknowledged by the Manager of Licensing.	Yes, This is being followed.	N/A	N/A	N/A	This requirement will be followed during the life time of this License.
B-10 The Licensee shall submit to the Board for approval, within ninety (90) days of License issuance or upon the filing of any application in relation to the License within that time, a Plan for Compliance that clearly demonstrates the measures the Licensee will undertake, including an implementation schedule, to achieve full compliance with the conditions of those License ., including the issues raised in the inspectors' reports.	This Plan for compliance is attached with the application.	N/A	N/A	N/A	This requirement will be followed during the life time of this License.
B-11 The Licensee shall, for all plans submitted under this License , include a proposed timetable for implementation. Plans submitted, cannot be undertaken without subsequent written Board approval and direction. The Board may alter or modify a Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan.	This direction will be followed.	N/A	N/A	N/A	This requirement will be followed during the life time of this License.
B-12 The Licensee shall, for all plans submitted under this License , implement the Plan as approved by the Board in writing.	Yes, this will be followed.	N/A	N/A	N/A	This requirement will be followed during the life time of this License.
B-13 Every Plan to be carried out pursuant to the terms and conditions of this License shall become a part of this License, and any additional terms and conditions imposed upon approval of a Plan by the Board become part of this License. All terms and conditions of the License should be contemplated in the development of a Plan where appropriate.	Hamlet will follow all the terms of conditions as per the License.	N/A	N/A	N/A	This requirement will be followed during the life time of this License.
B-14 This License is not assignable except as provided in Section 44 of the Act.	Yes, this will be followed.	N/A	N/A	N/A	This requirement will be followed during the life time of this License.

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Part C: Conditions Applying to Water Use					
C-1	The Licensee shall obtain all fresh water from the Duval River using the Water Supply Facilities or as otherwise approved by the Board.	In compliance	N/A	N/A	This will be followed during the life time of the licensed facility.
C - 2	The annual quantity of water, used for all purposes, shall not exceed one hundred thousand (100,000) cubic meters.	In compliance	N/A	N/A	This will be followed during the life time of the licensed facility.
C-3	The Licensee shall equip all water intake hoses with a screen of an appropriate mesh size to ensure that fish are not entrained and shall withdraw water at a rate such that fish do not become impinged on the screen.	In compliance	N/A	N/A	This will be followed during the life time of the licensed facility.
C-4	The Licensee shall not remove any material from below the ordinary high water mark of any water body unless otherwise approved by the Board in writing.	In compliance	N/A	N/A	This will be followed during the life time of the licensed facility.
C-5	The Licensee shall not cause erosion to the banks of any water and shall provide necessary controls to prevent such erosion.	In compliance	N/A	N/A	This will be followed during the life time of the licensed facility.
C-6	Sediment and erosion control measures shall be implemented prior to and maintained during the operation to prevent entry of sediment into water.	In compliance	N/A	N/A	This will be followed during the life time of the licensed facility.
Part D: Conditions Applying to Waste Disposal					
D-1	The Licensee shall direct all Sewage to the Waste Water Treatment Plant or as otherwise approved by the Board.	In compliance	N/A	N/A	This requirement will be followed during the life time of this License and the facility.
D-2	All effluent discharged from the Waste Water Treatment Plant at Monitoring Program Station PAN-3 shall not exceed the following effluent quality limits: Faecal Coliforms: 1×10^3 CFU/100ml; BOD ₅ : 180mg/L; TSS: 120mg/L; Oil and Grease: No visible sheen; pH between 6 and 9	In compliance. Lab results are attached.	N/A	N/A	This requirement will be followed during the life time of this License and the facility.
D - 3	All effluent discharged from the Waste Water Treatment Plant at Monitoring Program PAN-3 shall be demonstrated to be not Acutely Toxic under the following tests to be conducted once annually: with a minimum of Six (6) months between samples: (a) Acute lethality to Rainbow Trout, <i>oncorhynchus mykiss</i> (as per Environment Canada's Environmental Protection Series Biological Test Method EPS1/RM/13); and (b) Acute lethality to the crustacean, <i>Daphnia magna</i> (as per Environment Canada's Environmental Protection Series Biological Test Method EPS1/RM/14.	Not in compliance. These were not tested.	Hamlet will start testing these parameters from this summer	N/A	This requirement will be followed during the life time of this License and the facility.
D - 4	The Licensee shall dispose of and contain all solid wastes at the Solid Waste Disposal Facility or as otherwise approved by three Board.	In compliance.	N/A	N/A	This requirement will be followed during the life time of this License and the facility.

PLAN FOR COMPLIANCE LICENCE NO. NNB 3 BM-PAN 0810

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D - 5 The Licensee shall segregate and securely store all hazardous materials and/or hazardous waste within the Solid Waste Disposal Facility in a manner as to prevent the deposit of deleterious substances into any water until such a time as proper disposal arrangements are made.	Not in compliance. These were not done.	Nil	Nil	A feasibility study was completed by Dillon Consulting Ltd in 2007 and a new site was identified. In 2010 a different consultant was hired to start design work but this project was put on hold. Recently the project was started back working on the design work on the new technology to treat the solidwaste of the community. They will also do design works for the decommissioning of the solid waste site.	This process is expected to be completed in 2014.
D - 6 The Licensee shall dispose of and contain all fish processing wastes at the Solid Waste Disposal Facility. In a pit excavated below the active layer-permafrost interface. Fish wastes deposited at the Solid Waste Disposal Facility shall be treated with lime, and covered with soil prior to the onset of the annual Spring freshet and then weekly thereafter during June, July, August and September.	Not in Compliance.	Nil	Nil	Hamlet is waiting for the design of the acceptable technology for treating all the different types of wastes. Since the project was put on hold, no physical work was done on fish wastes.	The consultant is working on the design works right now. Once design is agreed by Hamlet and CGS and finally approved by NNB, the facility will be constructed. The existing landfill site will be decommissioned soon after the new facility is commissioned. Therefore Hamlet is waiting for this design. The entire exercise is expected to be completed some time in 2013-14.
D-7 The Licensee shall implement measures to control wind-blown litter at the Solid Waste Disposal Facility.	Not in compliance.	Nil	Nil	The facility is not fenced all four sides. Due to the land configuration of the community and location of the existing land fill site, wind can not be unidirectional. It works like cyclonic action. As a result it is difficult to control wind-blown litter at the solid waste facility even though it will be fenced all around.	The Consultant is working on the design works right now. They will present a suitable and acceptable arrangement to deal this situation. Hamlet is waiting for that direction which is not far from today.
D - 8 The Licensee shall implement measures to control surface runoff from the Solid Waste Disposal Facility.	Not in compliance.	Nil	Nil	Hamlet had made a commitment to NNB dated May 15, 2008. Initiation was made but the Bridge was collapsed and Community was declared Emergency. All the attentions were given to the emergency works and this particular issue was totally ignored. Later on a consultant was retained and their works were put on hold. Now the consultant has been advised to start working on the revised scope of works.	The consultant will be conducting a waste audit and developing the best adaptable technology for managing all the different types of solid wastes of the community. This new approach is scheduled to be implemented by 2014.
Part E: Conditions Applying to Modification and Construction					
E-1 The Licensee shall submit to the Board for approval, design drawings stamped and signed by a qualified Engineer registered in Nunavut, prior to the construction of any dams, dykes or structures intended to contain, withhold, divert or retain water or wastes.	In compliance	Nil	Nil	Currently two consultants are working in the Community. One for water supply project and another one for waste management. Both are at the preliminary stage. Once designs are completed, reviewed and accepted by Hamlet and CGS, these will be submitted to NNB approval.	The construction will proceed once final designs are approved by NNB. The final design are expected in 2013.
E-2 The Licensee shall submit to the Board for review, following the emergency remediation work resulting from flooding in 2008, as built drawings of water and waste related facilities constructed.	During emergency, no new construction for water and wastewater facilities were carried out. A new bridge was constructed.	Nil	Nil	Nil	Nil

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E-3 The Licensee may, without written approval from the Board, carry out modifications to the Water Supply and Waste Disposal Facilities provided that such modifications are consistent with the terms of this License and the following requirements are met: (a) the Licensee has notified the Board in writing of such proposed modifications at least sixty (60) days prior to beginning the modifications; (b) these modifications do not place the Licensee in contravention of the License or the Act; (c) the Board has not, during the sixty (60) days following notification of the proposed modifications, informed the Licensee that review of the proposed will require more than sixty (60) days; and (d) the Board has not rejected the proposed modifications.	In Compliance. The NWB was notified about the medication and upgradation of WWTP without disturbing the process management.	Nil	Nil	Water supply and Solid waste management projects are at the preliminary stage.	The Design documents will be sent to NWB prior to construction for approval. This is expected in 2013.
E-4 Modifications for which all of the conditions referred to in Part E, Item 4, have not been met may be carried out only with written approval from the Board. The Licensee shall provide as -built plans and drawings of the Modifications referred to in this License within ninety (90) days of completion of the Modification. These plans and drawings shall be stamped by an Engineer.	In Compliance. The as built drawings stamped and signed by the Engineer for the WWTP is attached.	This item is still not application for Water supply and solid waste management projects because their designs are at the preliminary stages.	Nil	Solid waste will be a new project and this clause is not applicable.	Only Truck fill station is planned to be replaced. As built drawings is expected in 2014.
E-5 All activities shall be conducted in such a way as to minimize impacts on surface drainage and the Licensee shall immediately undertake any corrective measures in the event of any impacts on surface drainage.	In Compliance. A new bridge was constructed over Duval River without disturbances of the surface flow of the River.	Surface runoff in the landfill site was committed in a letter to the NWB on May 15, 2008 but it was not materialized due to the bridge collapse.	Nil	Nil	This issue is planned to address during decommissioning of the entire facility (land fill site). This is expected in 2014.
E-6 The Licensee shall ensure that the sediment and erosion control measure are implemented prior to and maintained during activities carried out under this Part to prevent the release of sediment and minimize erosion.	In Compliance. This is a single span bridge supported by the two banks of the river and it has no disturbances of flow, erosion or sediment deposition at the bed of the river.	Nil	Nil	Nil	The Bridge will be maintained through out its life expectancy.
Part F: Conditions Applying to Operation and Maintenance					
F-1 The Licensee shall submit to the Board for approval, within ninety (90) days of issuance of the License, an Operation and Maintenance (O&M) Manual, prepared where appropriate in accordance with the Guidelines for the Preparation of an Operation and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories, 1996. The Manual shall take into consideration the comments received during the application review process, as well as Inspector Reports, and shall contain the following plans: a) Water Distribution, Facility Operation and Maintenance (O&M) Plan; b) Waste Water Treatment Plant Operation and Maintenance (O&M) Plan; c) Fish Processing Plant Waste Management Plan; d) Sewage Sludge and Screening Management Plan; e) Solid Waste Disposal Facility Operation and Maintenance (O&M) Plan f) Spill Contingency Plan and g) Monitoring Program Quality Assurance/Quality Control Plan (QA/QC Plan).	The items of a, b and g are only in compliance.	Nil	Nil	The items c, d, e and f will be dealt together once the solid waste management technology is established and implemented.	This is expected in 2014.
F-2 The Licensee shall review the O&M Manual referred to in this Part F, Item 1 as required by changes in operation and/or technology and modify accordingly. Revisions are to be submitted in the form of an Addendum to be included with the Annual Report.	Yes, this will be followed.	Nil	Nil	Nil	Nil
F-3 An inspection of all engineered facilities related to the management of water and waste shall be carried out annually in July, by a Geotechnical Engineer. The engineer's report shall be submitted to the Board within sixty days of the inspection, including a covering letter from the Licensee outlining an implementation plan addressing each of the Engineer's recommendations.	In compliance. The consultant and the contractor worked on the WWTP until last year. Currently a consultant is working on water supply project.	This item is not applicable to WWTP because it is a mechanical process.	Nil	The consultant will address in their design report on water supply project if there is any geotechnical issue on the water storage reservoir.	This design report is expected at the end of 2011.
F-4 The Licensee shall perform more frequent inspections of the engineered facilities at the request of an Inspector.	In compliance.	Hamlet is inspecting the water. Licensed facilities on regular basis. CGS Municipal Engineer is inspecting on annual basis.	Nil	The consultants are retained in water supply and waste management projects.	The Consultant along with the CGS staffs are visiting the facilities as they need to develop the design documents.

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F-5	If during the period of this license, an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall: (a) employ the appropriate contingency measures as approved under the Operation and Maintenance Manual for the Hamlet of Pangnirtung; (b) report the incident immediately via the 24-Hour Spill Reporting Line at (867) 920-8130 and to the Inspector at (867) 975-4295, and (c) submit to the Inspector, a detailed report on each occurrence, not later than thirty (30) days after initially reporting the event, that provides the necessary information on the location (including the GPS coordinates), initial response action, remediation/Clean-up, status of response (ongoing, complete), proposed disposal options for dealing with contaminated materials and any preventative measures to be implemented.	In compliance. During emergency, an unauthorized wastewater discharge was allowed to the community until all the arrangements were put in place to tackle the emergency situation.	This was called territorial emergency and all the concerned GN and Federal departments were involved.	Nil	Nil	The construction of the new Bridge had facilitated the transportation system in the Community and compromised the emergency situation in 2008.
<u>Conditions Applying to Abandonment and Restoration</u>						
G-1	The Licensee shall submit to the Board for approval, within six (6) months of License issuance, a Abandonment and Restoration Plan for the old Sewage pump out station.	Not in Compliance	Hamlet committed on May 15, 2008 for A&R plan of the old lagoon. But due to the emergency, it was not materialized	Nil	The A&R plan will be addressed at the same time for the decommissioning of the existing waste management site (land fill)	This program is expected to be scheduled sometime in 2014
G-2	The Licensee shall submit to the Board for approval an Abandonment and Restoration Plan, at least six (6) months prior to abandoning any facilities or upon submission of the final design drawings for the construction of new facilities to replace existing ones. Where applicable, the Plan shall include information on the following: (a) Solid waste facility; (b) water intake facilities; (c) the water treatment and waste disposal sites and facilities; (c) the water treatment and waste disposal sites and facilities; (d) petroleum and chemical storage area; (e) any site affected by waste spill; (f) leachate prevention; (f) an implementation schedule; (h) maps delineating all disturbed areas, and site facilities; (i) consideration of alternate drainage patterns; (i) type and source of cover materials; (k) future area use; (l) hazardous wastes; and (m) a proposal identifying measures by which restoration costs will be financed by the Licensee upon abandonment	Not in compliance	Hamlet committed on May 15, 2008 addressing few issues on the existing land fill site. But due to the emergency, it was not materialized	Nil	A feasibility study was completed by Dillon consulting Ltd in 2007 and a new site was identified. In 2010 a different consultant was retained to start design work but this project was put on hold. Recently the project was open and the same consultant started working on the acceptable technology. Once the new facility is built and commissioned, the A&R plan of the existing land fill site will be implemented	This is expected in 2014/15.
<u>Conditions Applying to the Monitoring Program</u>						
H-1	The Licensee shall maintain Monitoring Stations at the following locations: PAN-1: raw water supply intake at Duval River PAN-2: raw sewage from pump-out truck PAN-3: effluent from Waste Water Treatment Facility PAN-4: Runoff from Sludge disposal area PAN-5: Runoff from the Solid Waste Disposal Facility	Monitoring stations at PAN-1, PAN-2 and PAN-3 are in compliance. And PAN 4 and PAN 5 are not.	Nil	Nil	Monitoring stations at PAN 4 and PAN 5 concern Land fill site. Since this project was entirely on hold, no activities were carried out by the Hamlet.	The existing land fill site is scheduled to be decommissioned sometime in 2014-15. From now until it is decommissioned, Hamlet will take necessary measures to prevent leachate from running out into the sea.
H-2	The Licensee shall sample at Monitoring station PAN-3 monthly during operation, and discharge of effluent. Samples shall be analyzed from the following parameters.	In Compliance. Test results are attached	Nil	Nil	Nil	This process will be continued during the life time of the WWTP
H-3	The Licensee shall sample at Monitoring Program Stations PAN-4 and PAN-5 once at the beginning, middle and near the end of the season when flow is observed. Samples shall be analyzed for the parameters listed in Part H, Item 2.	Not in Compliance	Nil	Nil	The existing land fill site which contains Monitoring stations PAN-4 and 5 was decided to decommission by now. Since this project was put on hold, these have not been implemented.	Hamlet is planning for sampling this summer 2011.
H-4	The Licensee shall report all results of acute toxicity as required under Part D, Item 3 within the Annual Report as per Part B, Item 1.	Not in compliance	Nil	Nil	Hamlet is planning to conduct this monitoring program from summer 2011.	The process will be continued until this site is decommissioned. It is expected in 2014.
H-5	The Licensee shall measure and record in cubic meters, the monthly and annual quantities of water pumped at Monitoring Program Stations PAN-1, for all purposes.	In Compliance. This is recorded as the same volume of consumption volume.	Nil	Nil	This will be continued as it is today.	This process will be continued during the life time of this license.

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H - 6	The Licensee shall measure and record, in cubic meters, the monthly and annual quantities of raw effluents from trucks at Monitoring Program Station PAN-2.	In Compliance. This is being recorded daily.	Nil	Nil	Nil	This will be continued during the life time of this facility.
H - 7	Additional Monitoring Stations . sampling and analysis may be requested by an inspector.	N/A	N/A	N/A	N/A	N/A