

**PLAN FOR COMPLIANCE LICENCE NO: NWB 3CLY 0308  
MUNICIPALITY OF CLYDE RIVER**

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
License condition	Status of compliance	Short term Plan of Compliance	Schedule of Implementation of short term Plan for Compliance (including funding status where applicable to Municipal development)	Long Term Plan of Compliance	Schedule of Implementation of long term Plan for Compliance (including funding status where applicable to Municipal development)
<b>Part B: General Condition</b>					
B-1 The Licensee shall file an annual Report with the Board not later than March 31st of the year reported which shall contain the following information	Submitted for 2009 and attached 2010 report	N/A	N/A	The schedule of annual report submission will be maintained.	Will be followed in each year.
B-1-a tabular summaries of all data generated under the " Monitoring Program".	Lab test results attached	N/A	N/A	This monitoring procedure will be continued.	Will be maintained as required.
B-1-b modifications to the "monitoring program"	New Sewage lagoon is completed, the old one is still in progress. Monitoring stations are established.	Shown in as built and O&M documents	Satisfied by December 31, 2010	The Facilities will be completed 100% in summer 2011.	The effective life expectancy is 20 yrs.
B-1-c the monthly and annual quantities in cubic meters of fresh water obtained at the Water Supply Facilities.	The quantity is estimated on the basis of consumption record daily.	The records are kept in order.	In Compliance	Will be maintained	During the period of life expectancy
B-1-d the monthly and annual quantities in cubic meters of each and all waste discharged	Shown in the annual report same as water consumption.	In compliance	In schedule	Will be maintained	During life expectancy of the facility.
B-1-e the annual quantities in cubic meters and tones of sludge removed from the sewage Disposal Facility along with the treatment, storage and disposal provided.	Not applicable	N/A	N/A	N/A	N/A
B-1-f the results of sampling and analysis of sewage sludge	This was done and attached.	Follow consultant's recommendation	Summer 2011	N/A	N/A
B-1-g 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.	Nil for water supply Sewage lagoons completed Solid waste waste is on hold	Not applicable	Not applicable	Not applicable	Not applicable
B-1-h a list of unauthorized discharges and summary of follow-up action taken	Not applicable	N/A	N/A	N/A	N/A
B-1-i a summary of abandonment and restoration work completed during the year and an outline by changes in operation and /or technology	The solid waste project is on hold, the existing site is active	The abandonment will take place once the new solid waste facility is built	Funding is available for the project. The Design will follow the direction of the feasibility study in 2011 once available.	The new facility is expected to be built in 2012	Construction completion and commission in 2012
B-1-j any updates or revisions for manuals and Plans as required by changes in operation and /or technology, detailed minutes of any public consultation and participation with local	For water supply, no change. New manual for sewage Lagoons are attached. Solid waste project is on hold.	The New Manual for sewage lagoon has been seen completed along with the as-built drawings.	These documents are available.	The manual for Solid waste management will be developed once design and construction will be completed.	The operational specifications for solid waste management will be ready in 2012.
B-1-k detailed minutes of any public consultation and participation with local organizations and the residents of the community regarding license amendments	N/A	N/A	N/A	N/A	N/A
B-1-l 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 and	Yes, Board has asked for monitoring wells in solidwaste site.	Design was completed	Design is attached (Shown in the as built and manual)	Design of Solid waste site is expected to start in 2011	The new facility will be built in 2012
B-1-m any other details on water or waste disposal requested by the Board by November 31st of the year reported.	N/A	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.	Followed as per the License	QA/QC is being prepared ( Part of O&M manual)	This report is ready.	N/A	N/A
B-3 The "Monitoring Program" and Compliance dates specified in the License may be modified at the discretion of the Board.	Hamlet committed to submit compliance plan by Dec. 2010.	Plan of compliance (This is the same document)	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.	No meter or device is installed. Water volume is measured based on consumption record	Wastewater volume is estimated as the same volume of water consumed.	A meter in the truck fill station can be activated to measure quantity of water obtained from the source.	It is in the discussion table to install a device with the truck to measure wastewater volume.	No schedule is fixed yet.
B-5 The Licensee shall, within 90 ( ninety ) 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 the signage postings shall be in the official language of Nunavut.	The signage was installed in Water lake. The signages will be installed in the monitoring stations of the sewage lagoons and dump site.	The signages for sewage lagoon will be installed separately.	This will be done in summer 2011.	The signages will be installed as well for the New solid waste site.	This will be done in 2012.
B-6 The Licensee shall post signs in the appropriate areas to inform the public of the location.	This was done in all facilities.	Not applicable	Not Applicable	Not Applicable	Not Applicable
B-7 The Licensee shall immediately report to the 24-Hour Spill Report Line (867-930-8130) any spills of waste, which are reported to or observed by the Licensee, within the municipal boundaries or in the areas of the waste supply or Waste Disposal Facilities.	Hamlet knows and follows the procedures	Not applicable	Not Applicable	Not Applicable	Not Applicable
B-8 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: Nunavut Water Board P.O. Box 115 Gjoa Haven, NU X0B 1A0 Telephone: (867) 360-6338 Fax: (867) 360-6369 Email: licensing@nunavutwaterboard.org (b) Inspector Contact: Water Resources Officer Nunavut District, Nunavut Region P.O. Box 120 Iglood, NU X0A 0N0 Telephone: (867) 975-4295 Fax: (867) 975-6445 (c) Analyst Contact: Taiga Laboratories Department of Indian and Northern Affairs 4601 – 52 Avenue, P.O. Box 1500 Yellowknife, NT X1A 2K3 Telephone: (867) 669-2783 Fax: (867) 669-2718	Yes, this is in the Hamlet office.	Not applicable	Not Applicable	Not Applicable	Not Applicable
B-9 The Licensee shall submit one paper copy and one electronic copy of all reports, studies, and plans to the Board. Reports or studies submitted to the Board by the Licensee shall include a detailed executive summary in fulltext.	Yes, this is being done always.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
B-10 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, it is followed.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
B-11 The Licensee shall, for all Plans submitted under this license include a proposed timetable for implementation. Plans submitted , can not be undertaken without subsequent written Board approval and direction. The Board may alter or modify Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan.	Yes, it is followed.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
B-12 The Licensee shall, for all Plans submitted under this License, implement the Plan as approved by the Board in writing.	This will be followed	Not Applicable	Not Applicable	Not Applicable	Not Applicable
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 condition 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.	This will be maintained	Not Applicable	Not Applicable	Not Applicable	Not Applicable
B-14 This License is not assignable except as provided in Section 44 of the Act.	License belongs to Hamlet and they are responsible for compliance.	Not Applicable	Not Applicable	Not Applicable	Not Applicable

**Part C: Conditions applying to Water Use**

C-1	The Licensee shall obtain all fresh water from a natural Lake using the Water Supply Facilities or as otherwise approved by the Board in writing	Hamlet is obtaining fresh water from the approved natural lake.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
C-2	The annual quantity of water, used for all purposes, shall not exceed 38,000 cubic metres.	Limit is maintained. Shown in the annual report.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
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	This is not a fish bearing body. Intake screen is not an issue. But there is a stainless steel drum screen preventing larger solids from entering intake line.	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
C-5	The Licensee shall not cause erosion to the banks of any body of water and shall provide necessary controls to prevent such erosion.	This is a natural lake and slope stabilized	Not Applicable	Not Applicable	Not Applicable	Not Applicable
C-6	Sediment and erosion control measures shall be implemented prior to and maintained during the operation to prevent entry of sediment into water.	This natural lake collects water from snow melt within the catchment area.	Not Applicable	Not Applicable	Not Applicable	Not Applicable

**Part D: Conditions applying to waste disposal**

D-1	All Effluent discharged from the Sewage Disposal Facility at Monitoring Program Station CLV 4 shall not exceed the following Effluent quality limits: (see license <b>NW03 3CLV 0308</b> )	Lab Test results attached	The process will be maintained	Not Applicable	Not Applicable	Not Applicable
D-2	A Freeboard limit of 1.0 meter, or as recommended by a qualified geotechnical Engineer and as approved by the Board in writing, shall be maintained at all dams, dikes, or structures intended to contain, withhold, divert or retain water or wastes.	The community has a new facility and this criteria will be followed.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
D-3	The Licensee shall provide at least ten (10) days notification to an Inspector, prior to initiating any decant of the sewage lagoon.	This is being always followed	This will be maintained	Not Applicable	Not Applicable	Not Applicable
D-4	The Sewage Disposal Facility shall be maintained and operated, in such a manner as to prevent structural failure.	The community now has new facility. Maintenance is very minimum.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
D-5	The Licensee shall dispose of and permanently contain all Solid Wastes at the Solid Waste Disposal Facility or as otherwise approved by the Board in writing.	Currently the Community is managing wastes in the existing site. The New facility will be designed and built soon.	Due to Nunavut wide feasibility study, this capital project is on hold.	The design is expected to start in 2011	The new facility is expected to build in 2012 and decommission the existing facility soon after that.	Commission the new facility in 2013 and decommission the existing one in also in 2013.
D-6	The Licensee shall segregate and store all hazardous materials and/or hazardous waste, including waste oil, 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	The community is working towards that direction.	The Community will be monitoring ground water quality using three different wells.	The ground water monitoring wells are expected to be functional in summer, 2011	In the new waste management, there will a cell for managing hazardous wastes including waste oil.	This arrangement is expected to be available in 2013.
D-7	The Licensee shall implement measures to control wind-blown litter at the Solid Waste Disposal Facility.	The community burns solidwaste following wind direction and bury them.	The community will continue this practice.	This practice is on at present	The New facility will be fenced	The new Fenced facility will be ready to use in 2013.
D-8	The Licensee shall use clean material for construction, operation, and maintenance activities that is obtained from an approved source and which has been demonstrated not to produce acid rock drainage and to be non-metal leaching.	The granular source has been approved by NIRB.	The quality of material, operation and maintenance activities are maintained.	This is being implemented to all the construction works.	New Quarry sources will be identified.	Sources of Quarry materials, quality, quantity and accessibility will be established once Capital Dollars are available.
D-9	For any approved source of material within the municipality, the Licensee shall submit to the Board for approval sixty (60) following license issuance, a quarry management plan that includes the the following: a. Confirmation that the quarry material does not produce acid rock drainage and is non-metal leaching; b. An assessment of any potential impacts to freshwater quality; and c. Mitigation measures.	The item D-9 was followed and obtained NIRB approval for the current quarry deposit.	The existing quarry site will be used until finish.	The contractor will follow NIRB direction and Quarry permit agreement with the Hamlet.	The Future Quarry site shall be approved by NIRB.	A study will be conducted once the Quarry Funds are available in near future.

**Part E: Conditions applying to Modification and Construction**

E-1	The Licensee shall implement the recommended options identified in the Water License Application document entitled Recommended Sewage Treatment Upgrades for the Hamlet of NAME dated DATE, and shall follow the design as provided in the signed and stamped drawings numbered Cover; SP-1; SP-2; TD-1; DE-1; DE-2; and T-1 (total 7 sheets) by Trow associates inc. In the event of a conflict between the conditions of this License and the above referenced document, the conditions of this License shall prevail.	The consultant's recommended option has been supported by the Hamlet and approved by the Water Board. This option has been designed and built.	The New facility is in Compliance	The as built drawings and O&M manuals are attached.	Maintain the conditions of water License.	The facility life expectancy is 20 yrs to satisfy the water License compliancy.
E-2	The Licensee shall submit to the Board for approval, design drawings stamped and signed by a qualified engineer registered in Nunavut, 6 months prior to the construction of any dams, dikes or structures intended to contain, withhold, divert or retain water or wastes.	This process was followed before the facility was built.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
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 proposal will require more than sixty (60) days; and d. the Board has not rejected the proposed modification	Not Applicable	Not Applicable	Not applicable	Not Applicable	Not Applicable
E-4	Modifications for which all of the conditions referred to in Part E, item 3, have not been met, may only be carried out upon 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.	As built drawings are attached.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
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.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
E-6	The Licensee shall ensure that sediment and erosion control measures are implemented prior to and maintained during activities carried out under this Part to prevent the release of sediment and minimize erosion.	This has been followed in Sewage Lagoon Berm construction. The Berms have been stabilized from erosion.	Not Applicable	Not Applicable	Inspection and Monitoring will be continued.	Life time of the facility.
E-7	The construction or disturbance of any stream/lake bed or banks of any definable water course are not permitted, unless authorized by the Board in writing.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

**Part F: Conditions Applying to Operation and Maintenance**

F-1	The Licensee shall submit to the Board for approval, within ninety (90) days following issuance of the License, an Operation and Maintenance O&M Manual for the Sewage Disposal Facility and Solid Waste Disposal Facility, 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.	The construction of new Sewage Lagoon is completed as original plan. The new lagoon is commissioned. The Old lagoon is in progress.  The solid waste project is on hold.	The draft O&M manual of the Sewage Lagoon is attached.	The O&M manual of the Sewage Lagoon is ready and attached.  Final hard copy is available in Dec:2011	The design of Solid waste Project will be completed in 2012 and draft O&M manual will be available at the same time.	The new facility is expected to be built in 2012 and final O&M will be ready afterwards.
F-2	The Licensee shall review the O&M Manual referred to in Part F, Items 1 and 2 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.	The project consists of a new lagoon and a old lagoon. The new lagoon was built and commissioned. The existing one is expected to complete in summer 2011	O&M as built are attached for the works completed up to the end of 2010	The O&M final document will be ready by December 31, 2011.	The Current solid waste is a non Engineered facility.	The New Solid waste site will have a O&M document to operate in 2013.
F-3	An inspection of all engineered facilities related to the management of water and waste shall be carried out annually in July or August by a a Geotechnical Engineer. The engineer's report shall be submitted to the Board within sixty (60) days of the inspection, including a covering letter from the Licensee outlining an implementation plan addressing each of the Engineer's recommendations.	Water supply is in good shape. Sewage lagoon was recently built. Solid waste Project design is on hold.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
F-4	The Licensee shall perform more frequent inspections of the engineered facilities at the request of an Inspector.	Hamlet Foreman and COS staff frequently inspect these facilities.	Not Applicable	Not Applicable	Will be continued.	During the life time of the facility.
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 Clyde River. b. report the incident immediately via the 24-Hour Spill Reporting Line at (867) 930-8330 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.	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**Part G Conditions Applying to Abandonment and Restoration**

G-1	The Licensee shall submit to the Board for approval an Abandonment and Restoration Plan, at least six (6) months prior to a) abandoning of any any facilities and b) 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 and waste disposal sites and facilities; d. petroleum and chemical storage areas; e. any site affected by waste spills; f. leachate prevention; g. an implementation schedule; h. maps delineating all disturbed areas; and site facilities; i. consideration of altered drainage patterns; j. 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.	This item is not applicable to sewage Lagoon and water supply but applicable to solid waste management for this community.	The Plan of abandonment and restoration is on hold until Nunavut wide feasibility study on waste management is published.	Not applicable	Abandonment and restoration works will be completed of the solidwaste facility in 2013.	The existing waste management facility will be decommissioned in 2013 soon after the new facility is commissioned.
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**Part H: Conditions Applying to the Monitoring Program**

H-1	The Licensee shall maintain Monitoring Program Stations and implement the program as described in the table below and the conditions under this Part.	The community already started monitoring program in all three facilities under Water license.	The Community is in compliance for water supply and wastewater treatment facilities.	Part of the compliance issues for solid waste management site has been addressed.	Ground water monitoring wells will be constructed in 2010 and contaminated soil will be tested at the same time.	The existing solid waste site will be decommission soon after the new facility is built and commissioned in 2013
H-2	The Licensee shall confirm the locations and GPS coordinates for all monitoring stations referred to in Part H item 1 with an Inspector.	These are not available in the ground right now.	These will be presented in the O&M document.	O&M manual is ready, GPS location will be established in summer 2011.	The monitoring program will be continued.	Duration shall be life time of the facility.
H-3	The Licensee shall collect samples at Monitoring Program Stations CLY-4, CLY-5, CLY-6a,CLY-6b and CLY-7 three times annually, once upon commencement, once approximately mid-way through discharge, and once prior discharge ending. Samples shall be analysed for the following parameters: Biochemical Oxygen Demand – BOD5, Faecal Coliforms, Total Suspended Solids, pH, Conductivity, Nitrate-Nitrite Oil and Grease (visual), Total Phenols, Magnesium, Calcium, Sodium, Potassium Chloride, Sulphate, Total Hardness, Total Alkalinity, Ammonia, Nitrogen, Total Zinc, Total Cadmium, Total Iron, Total Cobalt, Total Manganese, Total Chromium, Total Nickel, Total Copper, Total Lead, Total Aluminum, Total Arsenic, Total Mercury, Total Organic Carbon (TOC), Total Petroleum Hydrocarbons.	The new sewage lagoon was commissioned in summer 2010.	The monitoring program is presented in the O&M manual.	This program will be implemented from summer, 2011.	The monitoring program will be continued.	The period shall be life time of the facility.
H-4	The Licensee shall measure and record in cubic meters, the monthly and annual quantities of water pumped from Monitoring Program Station CLY-1 for all purposes and effluent pumped or discharged from Monitoring Program Stations CLY-4 and CLY-5.	Currently the consumption volume recorded from financial record is considered the same volume.	The intake volume can be metered but the discharge volume is still estimated.	The information is attached in the annual Report.	This will be maintained	Duration will be the life time of the facility.
H-5	The Licensee shall sample and analyze sludge in accordance with the approved Operations and Maintenance Manual referred to in Part H item 9.	Sludge was tested in the accredited lab	The test results are attached.	This was done in summer 2010	Sludge will be tested again	Duration shall be life time of the facility.
H-6	The Licensee shall measure and record the annual quantities of sludge removed from the Sewage Disposal Facility along with the methods of treatment, storage, and disposal provided.	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
H-7	Additional monitoring stations, sampling and analysis may be requested by an Inspector.	Not applicable	Not applicable	Not applicable	Not applicable	This will be followed as instructed.
H-8	All sampling, sample preservation and analyses shall be conducted in accordance with methods prescribed in the current edition of Standard Methods for the Examination of Water and Wastewater, or as approved by the Board in writing.	Followed	Will be followed	Implemented	Will be followed	Period shall be life time of the facility.
H-9	All analyses shall be performed by a laboratory certified by the Canadian Association of Environmental Analytical Laboratories (CAEAL), or as otherwise approved by an Analyst.	Yes, Used Caduceon Environmental Laboratories, an accredited lab in Ottawa, ON	Conducted sampling and testing of samples of the old lagoon and wetland.	Implemented	Will be continued for the new lagoon and wetlands	Period shall be life time of the project.
H-10	The Licensee shall include all of the data and information required by the Monitoring Program as well as an indication of wastewater treatment levels upstream and downstream of the Wetland Area in the Licensee's Annual Report, as required per Part B, item 1, or as requested by an Inspector.	The information established in the ground and presented in the final O&M manual.	This will be followed for the new facility and wetlands.	Summer 2011	Will be continued	Period shall be life time of the project.
H-11	The Licensee shall, within sixty (60) days of License issuance, submit to the Analyst for approval, a Quality Assurance/ Quality Control (QA/QC) Plan, which addresses both field and laboratory requirements. The Plan shall be submitted to the Board upon approval by the Analyst for inclusion with the O&M Manual, required under Part F, Item 2(e).	Currently the hamlet is following QA/QC of the lab.	The Consultant presented QA/QC guidelines in the O&M manual.	This is part of the O&M manual.	Will be followed	Period shall be life time of the facility.
H-12	Modifications to the Monitoring Program may be made only upon written approval from the NWB.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	This will be followed if required.