

HAMLET OF WHALE COVE - PLAN FOR COMPLIANCE
NWB LICENCE NO. 3BM-WHA0914
16/01/2015

Licence Condition		Status of Compliance	Short Term Plan for Compliance	Responsibility	Schedule of Implementation	Long Term Plan for Compliance
PART B	<u>GENERAL CONDITIONS</u>					
B-1	The Licensee shall file an Annual Report with the Board no later than March 31st of the year following the calendar year reported.	Annual Reports for 2009, 2010 and 2013 have not been submitted (NWB Letter re: Renewal-Amendment Application April 24, 2014).	Complete Annual Reports for 2009, 2010 and 2013.	Hamlet of Whale Cove with assistance from CGS as needed	Annual Reports for 2009, 2010 and 2013 submitted with the Amendment/Renewal Application.	Annual Reports will be submit prior to the March 31st deadline each year.
B-4	Meters, devices or other such methods as approved by the Board in writing, used for measuring the volumes of water used and waste discharged shall be installed, operated and maintained by the Licensee.	Failure to meter water from the source (AANDC Inspection July 8, 2014).	Install a new meter to measure all fresh water drawn from the intake pump at First Lake and record daily water used.	CGS	A picture of the meter will be provided to the inspector before July 15, 2015.	Records will be kept of the fresh water use. The meter will be repaired/replaced as necessary.
B-5	The Licensee shall maintain the necessary signs to appropriately identify the stations of the Monitoring Program. Signs are to be posted in the Official Languages of Nunavut, following confirmation of location by the Inspector.	Failure to install and maintain monitoring station signage (AANDC Inspection July 8, 2014).	Signage for the Monitoring Program Stations will be ordered over the winter for installation summer 2015.	Hamlet of Whale Cove with assistance from CGS	Signage will be installed by August 30, 2015.	Signage will be checked annually and repaired/replaced as needed. Notice of repair/replacement will be included in the Annual Report.
B-11	The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.	Failure to implement Plans as approved by the Board (AANDC Inspection July 8, 2014).	Plans previously submitted to the NWB will be reviewed and implemented as outlined.	Hamlet of Whale Cove	Ongoing	Future plans will be implemented as approved by the NWB.
B-12	Every plan to be carried out pursuant to the terms and conditions of this License shall become a part of this Licence, 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 this Licence should be contemplated in the development of a plan where appropriate.	Failure to carry out plans to full extent (AANDC Inspection July 8, 2014).	Plans previously submitted to the NWB will be reviewed and implemented as outlined.	Hamlet of Whale Cove	Ongoing	Future plans will be implemented as approved by the NWB.
PART D	<u>CONDITIONS APPLYING TO WASTE DISPOSAL</u>					
D-4	The Licensee shall maintain at all times, a freeboard of at least 1.0 metre, or as recommended by a qualified geotechnical engineer and as approved by the Board in writing, for all dams, dykes or other structures intended to contain, withhold, divert, or retain water and wastes.	Failure to maintain freeboard for all water management structures (AANDC Inspection July 8, 2014).	The planned sewage lagoon expansion will ensure freeboard minimums are met.	CGS	Construction of the sewage lagoon expansion is scheduled for 2015.	Annual decanting of the sewage lagoon will ensure freeboard minimums are met.

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D-6	The Licensee shall treat, to the Treatment Objective, Type B Soil in the Landfarm Facility, in a manner in accordance with the Plans submitted to the Board by the Licensee on June 2, 2006, with supplemental information and any subsequent revisions approved by the Board in writing.	Failure to meet treatment objectives in Landfarm (AANDC Inspection July 8, 2014)	The current state of the Landfarm and soil within will be reviewed and a plan for improvement submitted to the NWB within 6 months.	CGS	Report on the current status of the Landfarm and plan for improvement will be submitted by July 15, 2015.	Implemented items on the plan for improvement to the Landfarm will be documented in the Annual Report.
D-13	The Licensee shall dispose of and permanently contain all solid wastes at the Solid Waste Disposal Facilities or otherwise approved by the Board in writing.	Failure to permanently contain waste within the Solid Waste Disposal Facility (AANDC Inspection July 8, 2014).	The Solid Waste Site fencing was repaired fall 2014.	Hamlet of Whale Cove	The Solid Waste Site operation will ensure waste is properly segregated and contained within the site.	Fencing will be inspected and repaired as necessary.
D-14	The Licensee shall segregate and store all hazardous materials and/or hazardous waste within the Solid Waste Disposal Facilities in a manner to prevent the deposit of deleterious substances into any water, until such a time that the materials have been removed for proper disposal at an approved facility.	Failure to segregate hazardous waste (AANDC Inspection July 8, 2014).	Hazardous waste will be segregated from household waste and properly stored.	Hamlet of Whale Cove	A seacan will be moved to the Solid Waste Site to store old batteries in battery boxes by July 15, 2015.	Ongoing segregation and proper storage of hazardous waste will occur. Details will be included in the report outlined in Item F-1.
D-15	The Licensee shall implement measures to ensure leachate from the Solid Waste Disposal Facility does not enter water.	Failure to contain leachate from entering water (AANDC Inspection July 8, 2014).	Solid Waste Site berms will be inspected annually as per Item F-4.	Hamlet of Whale Cove with assistance from CGS	Repairs to berms will be made as necessary during summer 2015.	Berm inspection report will be included in the Annual Report, along with details on any berm repair or other measures taken to prevent leachate from entering the water.
PART E	<u>CONDITIONS APPLYING TO MODIFICATION AND CONSTRUCTION</u>					
E-4	The Licensee shall provide to the NWB for review, as-built plans and drawings, stamped and signed by an Engineer, within ninety (90) days of completion of construction or, if already constructed, as is the case for the Landfarm, within ninety (90) days or issuance of this Licence.	Failure to submit as-built drawings for the Landfarm Facility (AANDC Inspection July 8, 2014).	As-built drawings of the Landfarm will be included within the Landfarm review and improvement plan report outlined in Item D-6.	CGS	Report on the current status of the Landfarm, including as-built drawings, and plan for improvement will be submitted by July 15, 2015. As-built drawings of the sewage lagoon expansion will be submitted to the NWB upon completion.	As-built drawings for future projects will be submitted to the NWB within ninety (90) days of completion of construction.
PART F	<u>CONDITIONS APPLYING TO OPERATION AND MAINTENANCE</u>					
F-1	Licensee shall submit to the Board for review, a Solid Waste Disposal Facilities Update Report and photographic record by October 31, 2009, which demonstrates the implementation of the measures recommended in the <i>Solid Waste Management Facility O&M Plan</i> , to improve the existing current facility.	Copy of the Solid Waste Disposal Facilities Update Report required (NWB Letter re: Renewal-Amendment Application April 24, 2014).	The Solid Waste Disposal Facilities Update Report was not completed in 2009. Within 6 months a report on the current status of the Solid Waste Site and plan for improvement will be submitted to the NWB.	Hamlet of Whale Cove with assistance from CGS	Report on the current status of the Solid Waste Site and plan for improvement will be submitted by July 15, 2015.	Implemented items on the plan for improvement to the Solid Waste Site will be documented in the Annual Report.

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F-2	<p>The Licensee shall submit to the Board with the 2009 Annual Report no later than March 31, 2010, an updated consolidated Operations and Maintenance (O&M) Manual, consisting of the previously submitted Plans:</p> <p>a. <i>Environmental Emergency Contingency Plan Hamlet of Whale Cove</i> (December 2008);</p> <p>b. <i>Environmental Monitoring Program & QA/QC Plan Hamlet of Whale Cove</i> (December 2008);</p> <p>c. <i>Sewage Treatment Facility O&M Plan Hamlet of Whale Cove</i> (December 2008);</p> <p>d. <i>Solid Waste Management Facility O&M Plan Hamlet of Whale Cove</i> (December 2008);</p> <p>e. <i>Water Supply Facility O&M Plan Hamlet of Whale Cove</i> (December 2008);</p> <p>and prepare 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 updated Manual shall take into consideration the comments received during the application review process and include the following:</p> <p>f. Updated sampling locations, parameters and timing required under the Licence;</p> <p>g. Updated <i>Environmental Emergency Contingency Plan</i> to include the information requirements under Part H, Item of Licence 3BM-WCL0712;</p> <p>h. A <i>Landfarm Management Plan</i>;</p> <p>i. A <i>Sewage Sludge Management Plan</i>;</p> <p>j. An approved QA/QC Plan as required by Part H, Item 13.</p>	<p>Copy of the updated, consolidate O&M Manual consisting of the previously submitted plans required. The updated manual should take into consideration the proposed expansion of the Waste Water Treatment Facility (NWB Letter re: Renewal-Amendment Application April 24, 2014).</p>	<p>The O&M Manual will be reviewed, updated and consolidated within 6 months. The Sewage Treatment Facility section will be further revised upon completion of the lagoon expansion project.</p>	<p>Hamlet of Whale Cove with assistance from CGS</p>	<p>The updated and consolidated O&M Manual will be submitted by July 15, 2015. The revised Sewage Treatment Facility section will be submitted upon completion of the lagoon expansion project.</p>	<p>The O&M Manual will be reviewed annually and any modifications will be documented in the Annual Report.</p>
F-4	<p>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 Geotechnical Engineer. The engineer's report shall be submitted for review 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.</p>	<p>Copies of reports generated from annual inspections conducted by a Geotechnical Engineer for all facilities associated with water and waste as required/Failure to carry out annual geotechnical inspections (AANDC Inspection July 8, 2014).</p>	<p>No annual inspections were conducted by a Geotechnical Engineer from 2009-2014 therefore no reports can be provided to the NWB.</p>	<p>CGS Rankin Inlet Municipal Engineer</p>	<p>Annual inspection of the sewage lagoon berms will be completed by the CGS Municipal Engineer upon commissioning the new sewage lagoon.</p>	<p>Annual inspection of the sewage lagoon berms to be completed by the CGS Municipal Engineer. If any issues are found with the berm, appropriate measures will be taken for further study or repair of the berms. The annual berm inspection and any follow-up measure taken will be reported in the Annual Report.</p>

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PART H	CONDITIONS APPLYING TO THE MONITORING PROGRAM					
H-1	<p>The Licensee shall maintain Monitoring Program Stations at the following locations:</p> <p>WHA-1 - Raw water supply at Fish Lake - Active (volume) WHA-2 - Runoff from the Solid Waste Disposal Facilities - Active WHA-3 - Final Discharge Point for the effluent from the Sewage Disposal Facilities prior to the wetland area - Active</p> <p>WHA-4 - Effluent outfall area from the wetland area - Active (new) WHA-5 - Soil entering the Landfarm - (previously WCL-1) Active WHA-6 - Effluent discharge from the Landfarm Facility containment sump at the controlled point of release - (previously WCL-2) Active</p> <p>WHA-7 - Monitoring well located up gradient of the Solid Waste Disposal Facilities - (previously WCL-3) Active WHA-8 - Monitoring well located down gradient of the Solid Waste Disposal Facility - (previously WCL-4) Active</p>	Failure to fulfil monitoring requirements (AANDC Inspection July 8, 2014).	Required sampling will occur at the Monitoring Program Stations described.	Hamlet of Whale Cove with assistance from CGS	Sampling results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.	Sampling will take place annually and results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.
H-2	<p>The Licensee shall measure and record, in cubic meters, the monthly and annual quantities of water pumped at Monitoring Program Station WHA-1, for all purposes.</p>	Failure to fulfil monitoring requirements (AANDC Inspection July 8, 2014).	The monthly and annual quantities of water pumped at WHA-1 will be recorded.	Hamlet of Whale Cove with assistance from CGS	Monitoring results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.	Monitoring results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.
H-3	<p>The Licensee shall sample monthly at Monitoring Program Station WHA-2, WHA-3 and WHA-4 during periods of observed flow and annual discharges, to be analyzed for the following parameters: Biochemical Oxygen Demand (BOD5), Fecal Coliforms, Total Suspended Solids, pH, Conductivity, Total Phenols, Oil and Grease (visual), Calcium, Magnesium, 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.</p>	Failure to fulfil monitoring requirements (AANDC Inspection July 8, 2014).	Weekly checks of the Monitoring Stations will begin in May and continue until the end of August. When flow is present, monthly samples will be taken. May-August checks and a summary of sample analysis will be submitted with the Annual Report.	Hamlet of Whale Cove	Weekly checks of Monitoring Stations will begin May 2015 and continue until August 2015. Samples will be taken monthly when flow is present. Results of the sampling program will be included with the 2015 Annual Report.	Weekly checks of Monitoring Stations will begin in May and continue until August each year. Samples will be taken monthly when flow is present. Results of the sampling program will be included with the Annual Report.

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H-4	The Licensee shall carry out inspections at Monitoring Program Stations WHA-2 and WHA-4 weekly from May to August inclusive, to determine effluent or water flow in order to fulfill the monitoring requirements of Part H, Item 3. A record of inspections shall be retained and made available to an Inspector upon request.	Failure to fulfil monitoring requirements (AANDC Inspection July 8, 2014).	Weekly checks of the Monitoring Stations will begin in May and continue until the end of August. When flow is present, monthly samples will be taken. May-August checks and a summary of sample analysis will be submitted with the Annual Report.	Hamlet of Whale Cove with assistance from CGS as needed	Weekly checks of Monitoring Stations will begin May 2015 and continue until August 2015. Samples will be taken monthly when flow is present. Results of the sampling program will be included with the 2015 Annual Report.	Weekly checks of Monitoring Stations will begin in May and continue until August each year. Samples will be taken monthly when flow is present. Results of the sampling program will be included with the Annual Report.
H-5	The Licensee shall measure and record the volume of all soil, from all locations entering the Landfarm Facility at Monitoring Program Station WHA-5.	Failure to fulfil monitoring requirements (AANDC Inspection July 8, 2014).	Volumes of all soil entering the Landfarm will be recorded.	CGS	Monitoring results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.	Monitoring results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.
H-6	The Licensee shall asses and record the concentration of petroleum hydrocarbon contaminated soil entering the Landfarm Facility (WHA-5) from all sources, as per the CCME <i>Canada-Wide Standard for Petroleum Hydrocarbons in (PHC) in Soil</i> .	Failure to fulfil monitoring requirements (AANDC Inspection July 8, 2014).	Petroleum hydrocarbon contamination of all soil entering the Landfarm will be assessed.	CGS	Monitoring results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.	Monitoring results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.
H-8	The Licensee shall install groundwater monitoring wells at the Landfarm Facility. These wells shall be located with at least one located upstream of the facility for background data collection (WHA-7) and at least one downstream of the facility (WHA-8).	Failure to fulfil monitoring requirements (AANDC Inspection July 8, 2014).	The current state of the Landfarm, including groundwater monitoring wells, and soil within will be reviewed and a plan for improvement submitted to the NWB within 6 months.	CGS	Report on the current status of the Landfarm and plan for improvement will be submitted by July 15, 2015.	Implemented items on the plan for improvement to the Landfarm will be documented in the Annual Report.
H-9	The Licensee shall sample at Monitoring Program Stations WHA-7 and WHA-8 once annually in the summer, giving consideration to adequate ground thaw and obtaining a representative groundwater sample. Samples shall be analyzed for the following parameters: Biochemical Oxygen Demand (BOD5), Fecal Coliforms, Total Suspended Solids, pH, Conductivity, Nitrate-Nitrite, Oil and Grease, Total Phenols, Magnesium, Calcium, Sodium, Potassium, Chloride, Sulphate, Total Mercury, Total Hardness, Total Alkalinity, Ammonia Nitrogen, Total Zinc, Total Cadmium, Total Iron, Total Aluminum, Total Manganese, Total Chromium, Total Nickel, Total Copper, Total Lead, Total Arsenic, TPH (Total Petroleum Hydrocarbons), PAH (Polycyclic Aromatic Hydrocarbons), BTEX (Benzene, Toluene, Ethylbenzene, Xylene).	Failure to fulfil monitoring requirements (AANDC Inspection July 8, 2014).	Weekly checks of the Monitoring Stations will begin in May and continue until the end of August. When flow is present, monthly samples will be taken. May-August checks and a summary of sample analysis will be submitted with the Annual Report.	Hamlet of Whale Cove with assistance from CGS as needed	Weekly checks of Monitoring Stations will begin May 2015 and continue until August 2015. Samples will be taken monthly when flow is present. Results of the sampling program will be included with the 2015 Annual Report.	Weekly checks of Monitoring Stations will begin in May and continue until August each year. Samples will be taken monthly when flow is present. Results of the sampling program will be included with the Annual Report.

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H-13	The Licensee shall submit to the Board upon approval by an analyst, for inclusion with the O&M Manual, required under Part F, Item 2(j), a Quality Assurance/Quality Control (QA/QC) Plan. The plan shall include up to date sampling methods to all applicable standards, acceptable to an accredited laboratory as required by Part H, Item 11 and Part H, Item 12. The Plan shall include a covering letter from the accredited laboratory and analyst, confirming acceptance of the Plan for analyses to be performed under this Licence.	Copy of Quality Assurance/Quality Control (QA/QC) Plan required (NWB Letter re: Renewal-Amendment Application April 24, 2014).	Submission of the QA/QC Plan will be included in the updated O&M Plan, which will occur within six months.	CGS with assistance from Hamlet of Whale Cove	The QA/QC Plan, with cover letter from an accredited lab confirming acceptance, be submitted by July 15, 2015 as part of the updated and consolidated O&M Manual outlined in Item F-2.	The QA/QC will be reviewed annual and the NWB will be notified of any changes/updates in the Annual Report.
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