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DECISION

LICENCE NUMBER: NWB3CHE0308

This is the decision of the Nunavut Water Board (NWB) with respect to an application for a Licence dated June 17, 2003, made by:

Hamlet of Chesterfield Inlet

to allow for the use of water and disposal of waste for the Hamlet at Chesterfield Inlet, Nunavut. With respect to this application, the NWB gave notice to the public that the Hamlet had filed an application for a water licence.

DECISION

After having been satisfied that the application was exempt from the requirement for screening by the Nunavut Impact Review Board in accordance with S. 12.3.2 of the *Nunavut Land Claim Agreement* (NLCA), the NWB decided that the application could proceed through the regulatory process. After reviewing the submission of the Applicant and written comments expressed by interested parties, the NWB, having given due regard to the facts and circumstances, the merits of the submissions made to it and to the purpose, scope and intent of the *Nunavut Land Claims Agreement* and of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NWNSRTA), decided to waive the requirement to hold a public hearing and furthermore to delegate its authority to approve the application to the Chief Administrative Officer pursuant to S. 49(a) of the NWNSRTA and determined that:

Licence Number NWB3CHE0308 be issued subject to the terms and conditions contained therein. (Motion #: 2003-10-05)

SIGNED this _	15th	_ day of December	2003 at Gjoa Haven, NU.
Original signed	by:		
Philippe di Pizz	0		
Chief Administr	ative Off	icer	

TABLE OF CONTENTS

DEC	ISION		i
TAB	LE OF CONTE	NTS	ii
I.	BACKGRO	UND	1
II.	PROCEDUI	RALHISTORY	1
III.	A. Term of t B. Water Us	he Licenceeeof Waste	
IV.	LICENCE	NWB3CHE0308	5
	PART A:	SCOPE AND DEFINITIONS	
	PART B:	GENERAL CONDITIONS	8
	PART C:	CONDITIONS APPLYING TO WATER USE	10
	PART D:	CONDITIONS APPLYING TO WASTE DISPOSAL	11
	PART E:	CONDITIONS APPLYING TO MODIFICATIONS AND	
		CONSTRUCTION	12
	PART F:	CONDITIONS APPLYING TO OPERATION AND	
		MAINTENANCE	13
	PART G:	CONDITIONS APPLYING TO ABANDONMENT AND	
	D + D = 11	RESTORATION	
	PART H:	CONDITIONS APPLYING TO THE MONITORING PROGRA	M14

I. BACKGROUND

The Hamlet of Chesterfield Inlet is located on a small bay on the south shore of Chesterfield Inlet, which is on the west shore of Hudson Bay. Chesterfield Inlet is located at 63°20' N and 90° 42'W, and is 101 km northeast of Rankin Inlet and 1,147 air km's east of Yellowknife. The predominant local topography of Chesterfield Inlet, which is located on a low and narrow coastal strip, is low and rolling, with low granite outcrops and numerous inland lakes. The average annual precipitation in Chesterfield Inlet consists of 14.6 cm of rainfall and 112 cm of snowfall. The mean high in July is 13.1 degrees with a mean low of 4.6 degrees. In January, the mean high is -27.8 degrees and a mean low of -35.2 degrees.

II. PROCEDURAL HISTORY

On June 17, 2003, an application for a water licence was filed by the Hamlet of Chesterfield Inlet, which was previously un-licensed by the NWB. The Nunavut Water Board publicly posted notice of this application, in accordance with the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* S.55.1 and Article 13 of the *Nunavut Land Claims Agreement*, on October 10, 2003. An assessment of the Hamlet's request for a municipal water licence for water use and waste disposal activities within the Hamlet was then undertaken, so that the Board could make a fully informed decision on the merits of application. This assessment process included the referral of the application to a variety of Federal, Territorial and local organizations for their review and comment. As no public concern was expressed, the NWB waived the requirement to hold a public hearing for the application.

Based upon the results of the detailed assessment, which was completed, including consideration of any potential accidents, malfunctions, or cumulative environmental effects that the overall project might have in the area, the Board delegated to the Chief Administrative Officer authority to approve the application pursuant to S. 13.7.5 of the *Agreement*.

III. ISSUES

Term of the Licence

In accordance with the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* S. 45, the NWB may issue a licence for a term not exceeding twenty-five years. In determining an appropriate term of a water licence, the Board considers a number of factors, including the results of the annual Department of Indian Affairs and Northern Development (DIAND) site inspection and the compliance record of the Applicant. Specifically, the September 4, 2002 DIAND Inspection Report indicated:

- 1. The lagoon contains considerable amounts of refuse (including drums), which should be removed from the treatment lagoon;
- 2. The reservoir supply line requires maintenance, as sediment produced by leakage has a potential to impact on the First Lake water source;
- 3. Concentrations of ammonia exceeded the levels recommended in the *Canadian Guidelines* for the Protection of Freshwater Aquatic Life; and
- 4. Levels of Total Suspended Solids and BOD exceeded the *Municipal Wastewater Effluent Quality Guidelines*.

The NWB has imposed the requirement to produce an Annual Report. These Reports are for the purpose of ensuring that the NWB has an accurate annual update of municipal activities during a calendar year. This information is maintained on the public registry and is available to any interested parties upon request. The Licensee's attention is drawn to the attached standard form for completing the Annual Report (see Attachment I).

The NWB has also imposed on the Licensee the requirement to produce an Operations and Maintenance Manual for their sewage and solid waste operations. The purpose of an Operation and Maintenance Manual is to assist Hamlet staff in the proper operation and maintenance of their waste disposal facilities. The manual should demonstrate to the Nunavut Water Board that the Hamlet is capable of operating and maintaining all waste disposal sites adequately. The Plan should be completed using the *Guidelines for the Preparation of an Operations and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories* (Duong and Kent, 1996; see Attachment II).

In review of the application DIAND, has recommended that a licence term of five (5) years. The NWB concurs that a term of five (5) years is appropriate, and will allow enough time for the Hamlet to establish a consistent compliance record with the terms and conditions of its licence. It will also ensure that sufficient time is given to permit the Licensee to develop, submit, and implement the plans required under its licence to the satisfaction of the NWB.

Water Use

The Municipality currently receives water from the First Lake water supply located 4.2 km west of the Hamlet. This run-off water is stored in a 33,000 m³ reservoir located 1 km west of the Hamlet, adjacent to the truck fill station. The water receives a chlorine treatment and is then distributed to the community by truck. Water requirements for 2003 were reported as 11,379 m³. Demand for 2008 was not reported in the application. Utilizing the water demand formula developed by the Department of Municipal and Community Affairs (Government of the Northwest Territories), projected demand requirements for 2008 were calculated at 17,248 m³.

No concerns were expressed by the parties in their written submissions as to the amount of water required by the Applicant or the manner in which this water will be used. Based upon the projected

requirements of the Hamlet, the Board has set the terms and conditions in the water licence, which govern water usage. The maximum permitted usage of water by the Hamlet of Chesterfield Inlet, over the term of the water license and for all purposes, has been set at 20,000 m³ annually.

Deposit of Waste

Sewage

The Hamlet of Chesterfield Inlet utilizes a Sewage Disposal Facility approximately 3.1 km west of the Municipality. This Sewage Disposal Facility is located at the Solid Waste Disposal Facility, and consists of a simple truck offload discharge area which is directed to a natural depression which functions to contain sewage. The effluent from this containment area proceeds downstream to the marine environment through natural wetlands along a 900 m flow path prior to entering Hudson Bay. The total area of the wetland is 165,000 m².

Specific comments relevant to sewage disposal operations in the Hamlet were provided by DIAND, and Environment Canada. DIAND and Environment Canada recommended that the Hamlet develop appropriate Operations and Maintenance and Spill Contingency Plans. Environment Canada further recommended that the Hamlet take steps to remedy capacity and effluent quality issues currently evidenced at the Sewage Disposal Facility.

Additionally, DIAND provided recommendations concerning effluent discharge criteria, which are consistent with the *Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories* (Northwest Territories Water Board; 1992), as well as specific recommendations concerning the Monitoring Program. This Program is established to collect data on water quality to assess the effectiveness of treatment for protection of public health and to assess potential impacts to the environment associated with the municipal facilities. The Board concurs with these recommendations, which are reflected in the terms and conditions of the Water Licence. The Board also draws the attention of the Licensee to their requirements to implement the Quality Assurance/Quality Control (QA/QC) Plan to be provided by the NWB. The purpose of the QA/QC Plan is to ensure that samples taken in the field as part of the Monitoring Program will maintain a high quality, so as to accurately represent the physical and chemical nature of the samples being taken. It should also be noted that while minimum sampling requirements have been imposed, additional sampling may be requested by an Inspector.

Solid Waste

The Hamlet's solid waste management site is located adjacent to the Sewage Disposal system, approximately 3.1 km from the community. Waste is segregated, with a generic landfill area, a bulky wastes area, and a segregated for hazardous wastes. Combustible wastes are burned regularly, and the landfill is compacted and covered annually.

Recommendations relevant to solid waste disposal operations in the Hamlet were provided by DIAND and Environment Canada. DIAND and Environment Canada recommended that the Hamlet develop appropriate Operations and Maintenance and Spill Contingency Plans. This Operations and Maintenance Plan would include specific measures to control the deposition of litter into the Hamlet Sewage Disposal Facility. DIAND further recommended that the Hamlet segregate hazardous materials such as waste oils and batteries from municipal solid waste, and that these materials be disposed of off-site in an approved facility. Environment Canada and DIAND recommended the appropriate management of waste oil at the solid waste site, so as to prevent the deposition of hydrocarbons into water in contravention of the Fisheries Act. Finally, DIAND recommended that the Hamlet take steps to control and monitor the dumping of commercial/industrial waste by construction contractors. These steps could include the enactment of Municipal Bylaws, to compel contractors to segregate their waste, and place it within designated areas within the landfill. DIAND also indicated that the Hamlet was within their rights to strictly regulate, and if necessary to refuse to accept, hazardous wastes from commercial interests. DIAND also indicated that such a Bylaw could include levying additional fees to offset the additional burdens (on staff and facilities) of managing commercial/industrial waste. The Board concurs with these recommendations, which are reflected in the terms and conditions of the Water Licence.

LICENCE NWB3CHE0308

Pursuant to the Nunavut Waters and Nunavut Surface Rights Tribunal Act and the Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada, the Nunavut Water Board, hereinafter referred to as the Board, hereby grants to

HAML	ET OF CHESTERFIELD INLET
(Licensee)	
of CHESTER	FIELD INLET, NUNAVUT, X0A 0J0
(Mailing Address)	
hereinafter called the Licensee, the rig restrictions and conditions contained w	ght to alter, divert or otherwise use water for a period subject to ithin this licence:
Licence Number	NWB3CHE0308
W. day Managara Anna	NUNAVUT 06
Location	CHESTERFIELD INLET, NUNAVUT
Purpose	WATER USE AND WASTE DISPOSAL
Description	MUNICIPAL UNDERTAKINGS
Quantity of Water Not to be Exceeded	20,000 CUBIC METRES ANNUALLY
Date of Licence	DECEMBER 15, 2003
Expiry Date of Licence	DECEMBER 31, 2008
Dated this <u>15th</u> of December 2003	B at Gjoa Haven, NU.
Original signed by:	
Philippe di Pizzo Chief Administrative Officer	

PART A: SCOPE AND DEFINITIONS

1. Scope

- a. This Licence allows for the use of water and the disposal of waste for municipal undertakings at the Hamlet of Chesterfield Inlet, Nunavut (63°21' N; 90° 42'W);
- b. This Licence is issued subject to the conditions contained herein with respect to the taking of water and the depositing of waste of any type in any waters or in any place under any conditions where such waste or any other waste that results from the deposits of such waste may enter any waters. Whenever new Regulations are made or existing Regulations are amended by the Governor in Council under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*, or other statutes imposing more stringent conditions relating to the quantity or type of waste that may be so deposited or under which any such waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations, to be subject to such requirements; and;
- c. Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of all applicable Federal, Territorial and Municipal legislation.

2. <u>Definitions</u>

In this Licence: NWB3CHE0308

"Act" means the Nunavut Waters and Nunavut Surface Rights Tribunal Act;

"Amendment" means a change to original terms and conditions of this licence requiring correction, addition or deletion of specific terms and conditions of the licence; modifications inconsistent with the terms of the set terms and conditions of the Licence:

"Analyst" means an Analyst designated by the Minister under Section 85 (1) of the Act;

"Appurtenant undertaking" means an undertaking in relation to which a use of waters or a deposit of waste is permitted by a licence issued by the Board;

"Average Concentration" means the arithmetic mean of the last four consecutive analytical results for contained in composite or grab samples collected from the Waste Disposal Facility's final discharge point;

- "Average Concentration For Faecal Coliforms" means the geometric mean of the last four consecutive analytical results for faecal coliforms contained in composite or grab samples collected from the Waste Disposal Facility's final discharge point;
- "Board" means the Nunavut Water Board established under the *Nunavut Land Claims Agreement*;
- "Chief Administrative Officer" means the Executive Director of the Nunavut Water Board;
- "Commercial Waste Water" means water and associated waste generated by the operation of a commercial enterprise, but does not include toilet wastes or greywater;
- "Composite Sample" means a water or wastewater sample made up of four (4) samples taken at regular periods over a 24 hour period;
- "Effluent" means treated or untreated liquid waste material that is discharged into the environment from a structure such as a settling pond or a treatment plant;
- "Final Discharge Point" means an identifiable discharge point of a Waste Disposal Facility beyond which the Licensee no longer exercises care and control over the quality of the Effluent;
- "Freeboard" means the vertical distance between water line and crest on a dam or dyke's upstream slope;
- "Grab Sample" means a single water or wastewater sample taken at a time and place representative of the total discharge;
- "Greywater" means all liquid wastes from showers, baths, sinks, kitchens and domestic washing facilities, but does not include toilet wastes;
- "Inspector" means an Inspector designated by the Minister under Section 85 (1) of the Act;
- "Licensee" means the holder of this Licence;
- "Modification" means an alteration to a physical work that introduces new structure or eliminates an existing structure and does not alter the purpose or function of the work, but does not include an expansion, and changes to the operating system that are consistent with the terms of this Licence and do not require amendment;
- "Monitoring Program" means a monitoring program established to collect data on surface water and groundwater quality to assess impacts to the freshwater aquatic environment of an appurtenant undertaking;

- "Nunavut Land Claims Agreement" (NLCA) means the "Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada", including its preamble and schedules, and any amendments to that agreement made pursuant to it; "Sewage" means all toilet wastes and greywater;
- "Sewage Disposal Facilities" comprises the area and engineered lagoon and decant structures designed to contain and treat sewage as described in the Application for Water Licence filed by the Applicant on June 17, 2003;
- "Solid Waste Disposal Facilities" comprises the area and associated structures designed to contain solid waste as described in the Application for Water Licence filed by the Applicant on June 17, 2003;
- "<u>Toilet Wastes</u>" means all human excreta and associated products, but does not include greywater;
- "Waste" means, as defined in S.4 of the *Act*, any substance that, by itself or in combination with other substances found in water, would have the effect of altering the quality of any water to which the substance is added to an extent that is detrimental to its use by people or by any animal, fish or plant, or any water that would have that effect because of the quantity or concentration of the substances contained in it or because it has been treated or changed, by heat or other means;
- "Waste Disposal Facilities" means all facilities designated for the disposal of waste, and includes the Sewage Disposal Facilities and Solid Waste Disposal Facilities, as described in the Application for Water Licence filed by the Applicant on June 17, 2003; and
- "Water Supply Facilities" comprises the area and associated intake infrastructure at the First Lake Water Supply, as described in the Application for Water Licence filed by the Applicant on June 17, 2003.

PART B: GENERAL CONDITIONS

- 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:
 - i. tabular summaries of all data generated under the "Monitoring Program";
 - ii. the monthly and annual quantities in cubic metres of fresh water obtained from all sources;
 - iii. the monthly and annual quantities in cubic metres of each and all waste discharged;

- 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;
- v. a list of unauthorized discharges and summary of follow-up action taken;
- vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
- vii. a summary of any studies, reports and plans (e.g., Operation and Maintenance, Abandonment and Restoration, QA/QC) requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;
- viii. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and
- 2. The Licensee shall comply with the "Monitoring Program" described in this Licence, and any amendments to the "Monitoring Program" as may be made from time to time, pursuant to the conditions of this Licence.
- 3. The "Monitoring Program" and compliance dates specified in the Licence may be modified at the discretion of the Board.
- 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 to the satisfaction of an Inspector.
- 5. The Licensee shall, within ninety (90) days after the first visit of the Inspector, post the necessary signs, where possible, to identify the stations of the "Monitoring Program." All signage postings shall be in the Official Languages of Nunavut, and shall be located and maintained to the satisfaction of an Inspector.
- 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.
- 7. The Licensee shall ensure a copy of this Licence is maintained at the municipal office at all times.
- 8. Any communication with respect to this Licence shall be made in writing to the attention of:

(i) Chief Administrative Officer:

Executive Director Nunavut Water Board

P.O. Box 119

Gjoa Haven, NU X0B 1J0 Telephone: (867) 360-6338

Fax: (867) 360-6369

(ii) Inspector Contact:

Water Resources Officer

Nunavut District, Nunavut Region

P.O. Box 100

Iqaluit, NU X0A 0H0

Telephone: (867) 975-4298 Fax: (867) 979-6445

(iii) Analyst Contact:

Taiga Laboratories

Department of Indian and Northern Affairs

4601 - 52 Avenue, P.O. Box 1500

Yellowknife, NT X1A 2R3

Telephone: (867) 669-2781 Fax: (867) 669-2718

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 Inuktitut.

PART C: CONDITIONS APPLYING TO WATER USE

- 1. The Licensee shall obtain all fresh water from the First Lake Water Supply using the Water Supply Facilities or as otherwise approved by the Board.
- 2. The annual quantity of water used for all purposes shall not exceed 20,000 cubic metres.
- 3. The Licensee shall maintain the Water Supply Facilities to the satisfaction of the Inspector.

4. The water intake hose used on the water pumps shall be equipped with a screen with a mesh size sufficient to ensure no entrainment of fish.

PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

- 1. The Licensee shall direct all Sewage to the Sewage Disposal Facilities or as otherwise approved by the Board.
- 2. All Effluent discharged from the Sewage Disposal Facilities at Monitoring Program Station CHE-4 shall meet the following effluent quality standards:

Parameter	Maximum Average Concentration
Faecal Coliforms	1 x 10 ⁴ CFU/dl
BOD_5	80 mg/L
Total Suspended Solids	100 mg/L
Oil and grease	No visible sheen
pH	between 6 and 9

- 3. A Freeboard limit of 1.0 metre, or as recommended by a qualified geotechnical engineer and as approved by the Board, shall be maintained at all dams, dykes or structures intended to contain, withhold, divert or retain water or wastes.
- 4. The Licensee shall advise an Inspector at least ten (10) days prior to initiating any decant of the sewage lagoon.
- 5. The Sewage Disposal Facility shall be maintained and operated, to the satisfaction of an Inspector in such a manner as to prevent structural failure.
- 6. The Licensee shall dispose of and contain all solid wastes at the Solid Waste Disposal Facilities or as otherwise approved by the Board.
- 7. The Licensee shall implement measures to ensure hazardous materials and/or leachate from the Solid Waste Disposal Facility does not enter water.
- 8. The Licensee shall submit to the Board for review within six (6) months of the issuance of this license a report identifying each Final Discharge Point. The report shall at least include:

- a. Plans, specifications and a general description of each Final Discharge Point together with its specific geo-referenced location;
- b. A description of how each Final Discharge Point is designed and maintained.
- 9. If, during the term of this Licence, additional Final Discharge Points are identified, the Licensee shall submit the information as required by Part D, Item 8 for each new Final Discharge Point within 30 days after the discharge point is identified and at least 60 days prior to depositing Effluent from the new Final Discharge Point and/or proposed changes are made to a Final Discharge Point.
- 10. The Licensee shall implement measures to control the deposition of waste from the Solid Waste Disposal Facility into the Sewage Disposal Facility.

PART E: CONDITIONS APPLYING TO MODIFICATION AND CONSTRUCTION

- 1. The Licensee shall submit to the Board for approval design drawings stamped 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.
- 2. 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 Licence and the following requirements are met:
 - i. the Licensee has notified the Board in writing of such proposed modifications at least sixty (60) days prior to beginning the modifications;
 - ii. said modifications do not place the Licensee in contravention of the Licence or the *Act*;
 - iii. 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
 - iv. the Board has not rejected the proposed modifications.
- 3. Modifications for which all of the conditions referred to in Part E, Item 1, have not been met may be carried out only with written approval from the Board.
- 4. The Licensee shall provide as built plans/drawings of the modifications referred to in this Licence within ninety (90) days of completion of the modifications.

PART F: CONDITIONS APPLYING TO OPERATION AND MAINTENANCE

- 1. The Licensee shall, within 6 months of the issuance of this license, submit to the Board for approval, a Plan for the Operation and Maintenance of the Sewage and Solid Waste Disposal Facilities in accordance with "Guidelines for Preparing an Operation and Maintenance Manual for Sewage and Solid Waste Disposal Facilities" (October 1996). In addition, this Plan shall specifically address hazardous waste disposal and operational issues at the Solid Disposal Facility.
- 2. The Licensee shall implement the Plan specified in Part F, Item 1 as and when approved by the Board.
- 3. The Licensee shall revise the Plan referred to in Part F, Item 1, if not acceptable to the Board. The revised Plan shall be submitted to the Board for approval within thirty (30) days of notification of the Board decision
- 4. If, during the period of this Licence, an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall:
 - i. employ the appropriate contingency plan as provided for in the Operation and Maintenance Plan;
 - ii. report the incident immediately via the 24-Hour Spill Reporting Line at (867) 920-8130 and to an Inspector; and
 - iii. submit to an Inspector a detailed report on each occurrence not later than thirty (30) days after initially reporting the event.
- 5. In the absence of a contingency plan contained within an approved Operation and Maintenance Plan, and should during the period of this Licence an unauthorized discharge of waste occur, or if such a discharge is foreseeable, the Licensee shall:
 - i. take whatever steps are immediately practicable to protect human life, health and the environment;
 - ii. without delay seek guidance from the Departments of Community Government and Transportation and Sustainable Development with regards to mitigation and remedial actions required to address the discharge;
 - ii. report the incident immediately *via* the 24-Hour Spill Reporting Line at (867) 920-8130 and to an Inspector; and
 - iii. submit to an Inspector a detailed report on each occurrence not later than thirty (30) days after initially reporting the event.

PART G: CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION

- 1. The Licensee shall submit to the Board for approval an Abandonment and Restoration Plan at least six (6) months prior to abandoning any facilities and the construction of new facilities to replace existing ones. The Plan shall include, but not be limited to where applicable:
 - i. water intake facilities:
 - ii. the water treatment and waste disposal sites and facilities;
 - iii. petroleum and chemical storage areas;
 - iv. any site affected by waste spills;
 - v. leachate prevention;
 - vi. an implementation schedule;
 - vii. maps delineating all disturbed areas, and site facilities;
 - viii. consideration of altered drainage patterns;
 - ix. type and source of cover materials;
 - x. future area use;
 - xi. hazardous wastes; and
 - xii. a proposal identifying measures by which restoration costs will be financed by the Licensee upon abandonment.
- 2. The Licensee shall implement the plan specified in Part G, Item 1 as and when approved by the Board.
- 3. The Licensee shall revise the Plan referred to in Part G, Item 1 if not approved. The revised Plan shall be submitted to the Board for approval within thirty (30) days of receiving notification of the Board's decision.
- 4. The Licensee shall complete the restoration work within the time schedule specified in the Plan, or as subsequently revised and approved by the Board.

PART H: CONDITIONS APPLYING TO THE MONITORING PROGRAM

1. The Licensee shall maintain Monitoring Stations at the following locations:

Monitoring Station

Description

CHE-1 Raw water supply at the First Lake Water Supply prior to treatment

CHE-2 Effluent discharge from the Final Discharge Point of the

Solid Waste Disposal Facilities

CHE-3 Raw Sewage at truck offload point

CHE-4 Effluent discharge from the Final Discharge Point of the

Sewage Disposal Facilities

2. The Licensee shall sample monthly at Monitoring Station CHE-2 and CHE-4 during the months of May to August, inclusive. Samples shall be analyzed for the following parameters:

BOD Faecal Coliforms pH Conductivity

Total Suspended Solids Ammonia Nitrogen Nitrate-Nitrite Oil and Grease (visual)

Total PhenolsSulphateSodiumPotassiumMagnesiumCalcium

Total Arsenic Total Cadmium
Total Copper Total Chromium
Total Iron Total Lead
Total Mercury Total Nickel

Total Zinc

3. The Licensee shall measure and record in cubic metres the monthly and annual quantities of water pumped from Monitoring Station CHE-1 for all purposes.

- 4. The Licensee shall measure and record in cubic metres the monthly and annual quantities of raw sewage offloaded from trucks at Monitoring Station CHE-3 for all purposes.
- 5. Additional sampling and analysis may be requested by an Inspector.
- 6. The Licensee shall conform to the Quality Assurance/Quality Control (QA/QC) Plan which shall be provided to the Licensee by the NWB within 120 days of the issuance of this license.
- 7. 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 by such other methods approved by the Board.
- 8. All analyses shall be performed in a Canadian Association of Environmental Analytical Laboratories (CAEAL) Certified Laboratory, or as otherwise approved by an Analyst.

- 9. The Licensee shall measure and record the annual quantities of sewage solids removed from the Sewage Disposal Facility.
- 10. The Licensee shall, unless otherwise requested by an Inspector, include all of the data and information required by the "Monitoring Program" in the Licensee's Annual Report, as required *per* Part B, Item 1.
- 11. Modifications to the Monitoring Program may be made only upon written approval of the Chief Administrative Officer.