



Water Resources Division  
Nunavut Regional Office  
Iqaluit, NU X0A 0H0

**Your File: 3BM-GRI0308**  
**Our File/CIDM's #: 310750**

February 20, 2009

Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU, X0A 1J0

**Re: 3BM-GRI0308 – Hamlet of Grise Fiord – Water License Renewal Application**

Please be advised that Indian and Northern Affairs Canada (INAC) has completed a review of a Type "B" Water License Renewal Application for the Hamlet of Grise Fiord, located in the Qikiqtani Region. All associated documents related to this license posted on your ftp site under 3BM-GRI were included in my review (see attached Technical Review Memo).

Should you have any questions or comments, please do not hesitate to contact me at (867) 975-4738 or by email at [Andrea.Cull@ainc-ianc.gc.ca](mailto:Andrea.Cull@ainc-ianc.gc.ca)

Yours truly,

*Original Signed By*

Andrea Cull  
Water Management Specialist



## **Technical Review Memo**

**To:** Phyllis Beaulieu – Manager of Licensing, Nunavut Water Board

**From:** Andrea Cull – Water Management Specialist, Indian & Northern Affairs Canada

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**Re: 3BM-GRI0308 – Hamlet of Grise Fiord – Water License Renewal Application**

The application for renewal submitted by Mr. Grant Scott, interim SAO of the Hamlet of Grise Fiord was received on September 29, 2008 by the Nunavut Water Board.

**Project:**

According to the application information provided, the Hamlet will require 16.99 cubic meters of water per day and generate 14.28 cubic meters of sewage per day. This meets the Type “B” water license criteria for Municipal Undertakings, Schedule VI, Northern Territories Water License Regulations.

As a result of the review INAC recommends that the Nunavut Water Board impose applicable standard conditions suitable for municipal projects of this size and magnitude. In addition the following comments/recommendations are provided for your consideration in the license approval process.

**Recommendations/Comments:**

**1. Plans and Information**

- Prior to issuing an approved renewal, the Hamlet should provide up to date copies of all Operational Plans and license information relevant to municipal undertakings associated with water use and waste disposal. As an alternative such documents could be submitted to the NWB within three (3) months of the issuance of any renewal. With the renewal of a water license these plan and other pertinent license information should include but not be limited to the following:
  - Freshwater Intake Design,
  - Waste Water Treatment Facility Design,
  - Solid Waste Treatment Facility Design,
  - Fuel Containment Facility Design (if applicable),
  - Quarry design(s) (if applicable),
  - Abandonment and Restoration Plan,
  - Quality Assurance/Quality Control (QA/QC) Plan (relative to sampling),
  - Operation and Maintenance (O&M) Manual for Solid Waste Management and Sewage Disposal Areas (including a sample monitoring program),
  - Spill Contingency Plans,
  - Applicable as built design drawings, diagrams and maps.



It should be noted that it is difficult to review the application due to the fact that this type of supporting information has not been provided.

## **2 (a). Sewage Lagoon**

- The sewage lagoon is located approximately 1.4 km west of the Municipality, near the solid waste disposal site. Sewage is collected from the Municipality by truck and deposited off into the sewage lagoon.
- INAC recommends that fencing be installed around the sewage lagoon to prevent unauthorized access. (Safety)
- No drawings were provided for this review so capacity may be an issue with this facility.

## **(b). Solid Waste**

- The solid waste disposal site is located near the sewage lagoon. The solid waste site consists of separate areas for bulky items/scrap metals and any hazardous wastes.
- INAC recommends that fencing be installed around the solid waste disposal site to stop unauthorized entrance to the area and windblown rubbish from leaving the site.
- There should be no open burning of plastics, wood treated with preservatives, electrical wire, Styrofoam, asbestos or painted wood. This is to prevent the deposition of waste materials from incomplete combustion and/or leachate from contaminated ash residues from impacting any surrounding waters.
- In the INAC-Municipal Water Use Inspection Report dated August 19, 2006, it was noted that there were approximately 100 drums containing unknown liquids (likely waste) deposited in three different areas within or near the solid waste disposal area.
- Hazardous waste materials stored on-site should be clearly labelled so they will be visible under all conditions, in all seasons. This recommendation is intended to prevent possible damage to the containers.
- Unless otherwise specified by the water resources inspector or licence -issuing agency, all hazardous materials should be removed from the site on a regular basis to prevent large accumulations. This type of waste must be disposed of at an approved facility outside of the Territory of Nunavut (no known facilities within Nunavut). All transfer of this type of waste must be in accordance with the GN "Guideline for General Management of Hazardous Waste - January, 2002". In



addition hazardous wastes should be stored within a lined secondary containment structure to prevent any off site impacts.

### **3. Spills**

- Any spill or unauthorized discharge from the sewage lagoon or solid waste disposal area must be reported to the Nunavut Spill Report Line and include a faxed copy of the Nunavut Spill Report Form. This form can be obtained from the Nunavut Water Board public registry at <http://www.nunavutwaterboard.org>. Please note that the 24-hour Spill Report Line telephone number is (867) 920-8130 and facsimile number is (867) 873-6924. Furthermore, INAC requests the proponent report all spills to Peter Kusugak, INAC Manager of Filed Operations, phone: 867-975-4295, fax 867 975-6445 as well as the Nunavut Spill Report Line.

*Cc. Kevin Buck, Manager of Water Resources – Indian and Northern  
Affairs Canada, Nunavut Regional Office*