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Department of Environment

Ministère de l'Environnement

Jan. 5, 2008

Phyllis Beaulieu
Manager of Licensing
Nunavut Water Board

via Email to: licensing@nunavutwaterboard.org

**RE: NWB FILE # 3BM-ARC – HAMLET OF ARCTIC BAY – WATER LICENSE
RENEWAL APPLICATION**

Dear Ms. Beaulieu:

The Government of Nunavut, Department of Environment (DOE) has reviewed the renewal water license application from the Hamlet of Arctic Bay. In addition to the terms and conditions outlined in the existing license (NWB3ARC0207) dated Nov. 1, 2002, and additional terms and conditions dated Mar. 2, 2005 for an amendment application for the same license, the DOE further recommends the following regarding the new sewage lagoon proposed, based on the DOE mandate under the *Environmental Protection Act*

SEWAGE LAGOON

The applicant proposes to construct a new sewage lagoon in 2008 to replace the existing lagoon, but there are no details submitted for review related to the new lagoon. The DOE recommends information related but not limited to the following is submitted for review.

- Design drawings for the new lagoon signed off by a professional engineer registered in Nunavut, should be submitted;
- Design details related to the landfill should be discussed. For example, what technology and methodology will be utilized to construct the lagoon and to ensure integrity of the lagoon so contaminants are contained within the lagoon and will not enter the environment?
- Operation & maintenance procedures;

- Monitoring details for sewage effluent quality should be included, such as monitoring locations, monitoring frequency and timing, and effluent discharge criteria to be used;
- Details related to the treatment wetland proposed as part of the overall sewage treatment should be discussed. Details should include wetland design, and operation & maintenance;
- Details related to treatment or/and management of sewage sludge should also be included;
- A spill contingency plan should be provided for review. The applicant is referred to DOE's *Spill Contingency Planning and Reporting Regulations* and *Spill Reporting in Nunavut: a Guide to the New Regulations*;
- A preliminary abandonment & restoration plan related to the new sewage lagoon should also be submitted for review.

The DOE thanks the NWB for giving us the opportunity to review and provide comments on the Arctic Bay Hamlet's renewal water license application. Please contact us if you have any questions or comments.

Yours sincerely,

Original signed by

Helen Yeh
Environmental Assessment Coordinator
Department of Environment
Government of Nunavut