



Nunavut Regional Office  
P.O. Box 2200  
Iqaluit, NU, X0A 0H0

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August 25, 2003

Phyllis Beaulieu  
Licensing Administrator  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU, X0E 1J0

Sent by email to:

[licensing@nwb.nunavut.ca](mailto:licensing@nwb.nunavut.ca)

**Indian and Northern Affairs Canada's Environmental Assessment Screening Decision  
Municipality of Kugluktuk Water Licence Application**

The Nunavut Water Board (NWB) acknowledged the application by the Municipality of Kugluktuk for a Water Licence on July 23, 2003. The NWB requested that all comments on this application be submitted to the Board by August 25, 2003. The Municipality of Kugluktuk is located approximately 67°50' N and 115°15' W.

In order to facilitate our environmental review of this project, we have conducted an environmental screening in conjunction with other federal departments. The project proposal was reviewed by INAC's Water Resources in collaboration with the Department of Fisheries and Oceans (DFO), Environment Canada (EC), and Health Canada (HC). Comments were also requested from the Government of Nunavut, the Kitikmeot Inuit Association, and the Kitikmeot Hunters and Trappers Organization.

Based on the results of the screening, INAC has concluded that the project is not likely to cause significant adverse environmental effects. The incorporation of appropriate conditions in the new water licence will help mitigate the current environmental effects caused by Kugluktuk's waste disposal facilities.

The application states that the Municipality of Kugluktuk plans on improving their sewage retention pond, increasing the size and reinforcing the berms. Additional proposed changes include replacing to aging water storage tanks. Finally, the honeybag pit will be abandoned in the near future when the last house to use honeybags is converted to a flush system.

The following water licence conditions are provided for the NWB's consideration:

- Ensure compliance with section 36 (3) of the *Fisheries Act* which prohibits the deposition of deleterious substances of any type in waters frequented by fish.

- Locate all waste disposal areas at least 450 metres from any building used for human habitation or for the storage of food, as per the *General Sanitation Regulations, Public Health Act*.
- Sample lagoon effluent annually (as a minimum), during periods of flow, as per the *Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories* (1992). The effluent must, at the very least, meet the criteria presented in those guidelines, which are:

Total Suspended Solids	120 mg/L
BOD	100 mg/L
Oil and Grease	no visible sheen
pH	6 to 9
Fecal Coliforms	100,000 CFU/L
Ammonia	monitor only

- Ensure compliance with the *Freshwater Intake End-of-Pipe Fish Screen Guidelines* (DFO, 1995), available upon request from DFO.
- The plans and designs of all proposed modifications relating to the expansion, upgrade, and/or major maintenance of water intake, sewage disposal or waste disposal facilities should be submitted to the NWB and all other relevant stakeholders for review (and possibly approval, as required) before proceeding with the work. Likewise, the plans and designs for the restoration of abandoned sites should also be distributed to the NWB and other appropriate stakeholders for review (and approval, as required).
- Emplacement of warning signs for public health and safety reasons around the water source/intake area, as well as downstream/downslope of the sewage disposal and solid waste disposal sites.
- Locate all waste, sewage contaminants, and fuel caches a minimum of 30 metres from the normal high water mark of any water body, and be sufficiently bermed or otherwise contained to ensure that deleterious substances do not enter any water body.
- Requirements for the submission of an Operation and Maintenance Plan, Spill Contingency Plan, and Abandonment and Restoration Plan; the plans must include provisions for the water treatment and waste disposal facilities.
- Hazardous wastes, such as (but not necessarily limited to) petroleum or batteries, should be segregated from the normal waste and stored/disposed of in an appropriate manner.

- Ensure completion of appropriate training of municipal staff to ensure quality control in sampling collection and preparation.
- Report all spills of oil, fuel, or other deleterious material immediately to the 24-Hour Spill Line at (867) 920-8130.
- Emplacement of a proper fence around the solid waste disposal sites to assist in the containment of wastes, and for public safety.
- Implement and maintain sediment and erosion control measures prior to, and during work to prevent sediment entry into the water during a spring thaw.
- Control all activities, including maintenance procedures and refueling, to prevent the entry of petroleum products or other deleterious substances into the water.
- Upon completion of work, all disturbed areas should be stabilized and re-vegetated as required, and restored to a pre-disturbed state.
- No material should be left on ice when there is potential for that material to enter the water (i.e. spring break-up).

If you have any concerns or questions, please feel free to contact me.

Sincerely,

***Original Signed By: Michael Roy***

Michael Roy  
 Qikiqtani Regional Coordinator, Water Resources  
 INAC - Nunavut Regional Office  
 P.O. Box 100, Iqaluit, NU, X0A 0H0  
 (867) 975-4555  
 fax: (867) 975-4276  
[roymjp@inac-ainc.gc.ca](mailto:roymjp@inac-ainc.gc.ca)