



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

NWB File: 3BM-BAK1015  
CIDMS #: 477407

Aug 26, 2011

**Re: 3BM-BAK1015 – Abandonment and Restoration (A&R) Plan for the Water Supply System, Sewage Disposal System, Solid Waste Disposal Facility and Spill Contingency Plan – Hamlet of Baker Lake**

Please be advised that the Water Resources Division of Aboriginal Affairs and Northern Development Canada (AANDC) have completed a review of the A&R Plan for Water Licence 3BM-BAK1015 that was submitted by Nunami Stantec on behalf of the Hamlet of Baker Lake. The NWB circulated the A&R Plan for comments on July 29, 2011. All documents related to the application posted on the NWB ftp site under 3BM-BAK1015 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) 975-4282 or by email at [Ian.Parsons@aandc-aadnc.gc.ca](mailto:Ian.Parsons@aandc-aadnc.gc.ca).

Sincerely,

*Original signed by*

Ian Parsons  
Regional Coordinator



## **Technical Review Memorandum**

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

From: Ian Parsons – Regional Coordinator, Aboriginal Affairs & Northern Development Canada.

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**Re: 3BM-BAK1015 – Abandonment and Restoration (A&R) Plan for the Water Supply System, Sewage Disposal System, Solid Waste Disposal Facility and Spill Contingency Plan – Hamlet of Baker Lake**

### **Background**

The Hamlet of Baker Lake has a population of approximately 1,900 and is located on the Northwestern shore of Baker Lake adjacent to the mouth of the Thelon River in the Kivalliq Region of Nunavut.

### **Recommendations/Comments**

#### **Water Treatment Facility**

AANDC recommends that the proponent not enter the water source (Baker Lake) with equipment when attempting to remove the water supply intake. AANDC reminds the proponent that this is the water supply source for the Hamlet of Baker Lake as well as being a fish bearing water body.

#### **Sewage Disposal Facility**

AANDC notes that there are some discrepancies within the A&R Plan that should be clarified. These discrepancies are more Operational and Maintenance based then they are A&R based.

Section 2.1 of the A&R Plan states that a second short-term holding cell, separate from the initial holding cell, was constructed and completed in the fall of 2010. This was to add retention time to the lagoon facility thus enhancing treatment of the effluent. Figure 2 also supports the idea of a second separate



holding cell. However in correspondence with AANDC field inspectors it was confirmed, through conversation and photographic evidence, that there is only one holding cell.

Although there have been upgrades made to this holding cell, such as reinforcing the berm and increasing the size of the lagoon it is evident that there is only one holding cell related to the sewage lagoon system.

#### Solid Waste Disposal Facility

AANDC recommends that efforts should be made to segregate the different types of wastes being deposited into the solid waste facility as well as properly storing and disposing of all hazardous wastes as per the Government of Nunavut Environmental Guideline for General Management of Hazardous Waste in Nunavut.

AANDC notes that the 2010 inspection report references no control or attempt to control several leaks and spills from the hazardous wastes area within the solid waste facility.

AANDC recommends that the spill contingency plan be employed whenever leaks occur.

The recommendations made above will only enhance the effectiveness of the A&R plan, as such the proponent should undertake all recommendations provided above.

Cc. David Abernethy, A/Manager of Water Resources – Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office  
Andrew Keim, Water Resources Officer - Field Operations – Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office