



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

NWB File: 3BM-CHE0308
CIDMS #: 415329

July 14, 2010

**Re: 3BM-CHE0308 – Water License Renewal Application – Hamlet of
Chesterfield Inlet**

Please be advised that Indian and Northern Affairs Canada (INAC) has completed a review of the renewal application for water license 3BM-CHE0308 (Hamlet of Chesterfield Inlet) submitted by Nunami Stantec on behalf of the Hamlet of Chesterfield Inlet. The NWB circulated the additional documents of the renewal application for comments on June 14, 2010. All documents related to the application posted on the NWB ftp site under 3BM-CHE0308 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) 979-4282 or by email at Ian.Parsons@inac.gc.ca.

Sincerely,

Original signed by

Ian Parsons
Water Resources Technician

Cc. Lou-Ann Cornacchio, Manager of Water Resources – Indian and Northern
Affairs Canada, Nunavut Regional Office



Technical Review Memorandum

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

From: Ian Parsons – Water Resources Technician, Indian & Northern Affairs Canada.

Re: 3BM-CHE0308 – Water License Renewal Application – Hamlet of Chesterfield Inlet

Background

On September 9, 2008 the Hamlet of Chesterfield Inlet applied to the Nunavut Water Board (NWB or Board) for a renewal of their current Type 'B' Water Licence (3BM-CHE0308). On October 15, 2008 the Board requested additional information concerning the renewal application.

The Hamlet was encouraged by the Board (correspondence dated January 14, 2009) to first apply for a renewal of their expired water licence, and then after the water licence is approved, apply for an amendment to the licence to include a road to Josephine Lake.

On February 24, 2009, after additional information was sent to the Board by Nunami Jacques Whitford Ltd. on behalf of the Hamlet of Chesterfield Inlet, it was determined that there was enough information to go forward with the renewal application. However, the Board decided that the development of the road to Josephine Lake would be processed separately, and at a different time (as and amendment).

On May 14, 2009 the NWB distributed the water license renewal application for comments on the condition that the Hamlet of Chesterfield Inlet address the deficiencies in the renewal application before the deadline for comments. However, this information was not received prior to the deadline for comments and the licensing process was put on hold until the Hamlet of Chesterfield Inlet submitted the proper documentation.

On June 3, 2010 the NWB was provided the additional documentation, by Nunami Stantec, to address the outstanding issues and continue with the renewal application.



On June 14, 2010 the NWB distributed the additional documents for comments from interested parties.

Recommendations/Comments

INAC recommends that a renewal of five years is sufficient to determine compliance with the water license requirements (monitoring, plans, etc).

INAC notes that the proponent failed to include in the Annual Reports (**Part B Item 1 item i**) for the years of 2007, 2008 and 2009 any monitoring data generated under **Part H – Conditions Applying to the Monitoring Program**. This is a non-compliance of the water license.

INAC notes in the Annual Reports of 2007 and 2009 spills have occurred. However the annual report fails to indicate where these spills occurred. INAC recommends that spill reporting include GPS coordinates of the location of the spill.

The correct contact information for INAC personnel is as indicated below:

INAC recommends that the proponent add INAC contact information as follows: Peter Kusugak – INAC Manager of Field Operations, phone: 867-975-4295, fax 867 975-6445, in the reporting procedure of the spill plan.

INAC notes that at this time there is no sewage retention system (lagoon) in place for the Hamlet of Chesterfield Inlet and raw sewage is discharged directly into the wetland area for treatment.

INAC also notes that the new sewage treatment design plans include two new holding cells; the plan indicates that from the dumping stations to the holdings cells the raw sewage will still be discharged directly onto the land, albeit a designed riprap area.

INAC recommends that the Hamlet submit to the Board, a Surveillance Network Program (SNP) for water quality monitoring at the holding cells and other relevant sites down gradient from the holding cells to verify that the holding cells and wetland treatment area are working as they were intended.

This program should also include, but not be limited to, maps and GPS coordinates of the SNP water sampling sites (raw water, sewage effluent and landfill leachate).

INAC also recommends that the Hamlet ensure that the water bodies included in the wetland treatment area are not fish bearing.



INAC recommends that Hamlet of Chesterfield Inlet become more diligent in their segregation practices at the municipal solid waste (landfill) facility. INAC also recommends that the solid waste facility be completely fenced,

INAC recommends that the hazardous wastes and the bulky waste areas, to ensure public safety and limiting contamination to the environment, should be completely fenced and have acceptable storage facilities for the each waste.

Cc. Lou-Ann Cornacchio, Manager of Water Resources – Indian and Northern Affairs Canada, Nunavut Regional Office
Peter Kusugak, District Manager – Indian and Northern Affairs Canada, Nunavut Regional Office