



Inspection Report

License #: 3BM-ARV

Inspector: A. Keim

CIDMS # 370730

Client	Municipality of Arviat		
Mailing Address	Box 150		
Inspection site location	Arviat , Nunavut		
Contact name	Ed Murphy	Title	A/ Hamlet Foreman
Last inspection date	July 31 st 2008		
Inspection start date	August 4 2009		
Region	Kivalliq		



INAC, Nunavut District
P.O. Box 100
Building 918
Iqaluit, NU, X0A 0H0

Submitted Via E-Mail

Our File: 3BM-ARV0308 **EXPIRED**

Your File: _____

CIDM # 370730

December 7, 2009

Ed Murphy
A/ Hamlet Foreman
Box 150
Arviat, Nunavut
XOC OEO

RE: August 4, 2009 Municipal Water Licence Inspection 3BM-ARV0308 – Expired

The following inspection report was generated on an inspection conducted to determine compliance with the terms and conditions of the water license (expired) issued to the Municipality of Arviat by the Nunavut Water Board (NWB).

The report references the applicable parts of the current Water License (3BM- ARV0308) and the findings observed under each of those Parts. During the writing of this report a review was undertaken of the documents located on the Nunavut Water Board's FTP site.

It is noted that on January 5th, 2009 the Nunavut Water Board received an application from the Licensee for a Type A water license for the community.

The Inspector would like to thank Mr. Ed Murphy, the acting hamlet foreman during the period of the Inspection, for taking the time to meet and accompany the Inspector during the Inspection.

N.B: It was noted by the Inspector that the Municipality of Arviat does not provide the potable water services within the community. Instead there is a Government of Nunavut, Department of Community and Government Services employee who maintains the system within the community. The Inspector calls on the board to provide clarification as to why the Municipality has this service included within the scope of the issued license. If the Government of Nunavut is responsible for the operations and maintenance of the Potable Water delivery service and infrastructure a license should, as past practice would dictate, be issued in the name of the Government of Nunavut.

Previous findings:

The community of Arviat's water license (3BM-ARV0308) expired on December 31st, 2008. An application for renewal for the expired Type B license was submitted by Nuna Burnside, on behalf of the Hamlet of Arviat.

The application was found to be incomplete by the Nunavut Water Board and a request for missing information was sent out on May 15th, 2009. Additionally it was noted by the Nunavut Water Board that as per the information provided in the application the required license now falls into a Type A category and that would be how the Board would be proceeding on the file. The file is currently being held by the board pending the submission of the required information to enable them to proceed with the application.

Currently the Hamlet of Arviat is unlicensed.



Issues noted in previous Inspections;

- Sewage treatment in the community is below an acceptable standard.
- Failure to collect and submit for analysis samples as required under the Monitoring Program.
- Failure to undertake such works as directed to prevent the continued erosion of the lagoon system into waters downstream.
- Failure to undertake such works as required for control of the spread of runoff from the waste management area into the wetlands area below the lagoon system.
- Failure to develop and submit an Operation and Maintenance Manual, as associated plans.
- Failure to submit as required all annual reports (it is noted a 2008 Annual report was submitted).
- Failure to submit the required abandonment and restoration plan.
- Failure to provide clarification on the roles and responsibilities of the licensee and the government of Nunavut in relation to Potable water treatment and delivery in the community.
- Failure to develop and submit a Quality Assurance/ Quality Control Plan.

During the period of the 2009 Inspection the following issues were identified by the Inspector;

- Failure to file a complete 2008 annual report. (report was found to be incomplete)
- Failure to take steps to prevent and control the migration off site of runoff from the Solid Waste Management Facility.
- Failure to comply with the monitoring program by collecting samples for analysis.
- Failure to undertake such works as is required to restore/ remediate the two currently abandoned Sewage lagoons.
- Failure to address the continued seepage and release of contact water from the old and now abandoned lagoons.

Samples collected from water outside but adjacent to the lagoon by the Inspector returned the following results;

Parameter:	Result	NWTELS ¹ Criteria
Manganese	225 µg/L	50 µg/L
Iron	2860 µg/L	300 µg/L

(It was noted by the Inspector that the samples collected outside the lagoon had an obvious odour of sewage however samples did not arrive at the lab within the required time limit for testing for fecal coliform colonies.

Samples collected from water from Bulk Metals Waste Management Area by the Inspector returned the following results;

Parameter:	Result	PAL ² (CCME)
Iron	385 µg/L	300 µg/L
Manganese	658 µg/L	50 µg/L

Non-Compliance: Issues identified during the August 4th, 2009 inspection and/or review of relevant material

¹ NWT Limits for Effluent Parameters for specific Discharges Criteria

² Protection of Aquatic Life– Canadian Council of Ministers of the Environment – Canadian Environmental Quality Guidelines



Issues with a known or anticipated human health impacts;

- Failure to address concerns identified by the Inspector regarding effluent leaking from the Sewage Lagoon.
- Failure to address concerns identified by the Inspector concerning Water Management within the Waste Management areas.
- Failure to collect and submit for analysis the samples required on the Monitoring Program.

Issues where there is a known or anticipated environmental impairment;

- Failure to take steps to control and mitigate runoff from the Solid Waste Management Facility.
- Failure to develop a Solid Waste Disposal Operations and Maintenance Manual.

Issues where there is a known or suspected violation of a requirement of the Water License;

- Failure to submit required Annual reports. (Part B (i through viii)) (it is noted that an Annual report for 2008 was submitted with the renewal application to the Nunavut Water Board and was found to be incomplete)
- Failure to maintain the appropriate Surveillance Network Program. (SNP)(Part B (5))
- Failure to notify the Inspector prior to decant as required. (Part D(4))
- Failure to identify and submit the Final discharge points for the current lagoon system. (Part D (8))
- Failure to submit as required documents and drawings properly certified of the “new lagoon” as required under (Part E (4)).
- Failure to submit as required the appropriate Abandonment and Restoration Plans. (Part G (1))
- Failure to implement the requirements listed under the Monitoring Program. (Part H)
- Failure to develop and submit a QA/QC Plan. Part H (6))
- Failure to Maintain the Sewage lagoon to the satisfaction of the inspector. (Part D(5))

The Municipality of Arviat continues to operate in Non-conformity with those terms and conditions of the Water License issued in 2003 and now expired. The licensee and the Government of Nunavut are strongly encouraged to contact the Nunavut Water Board and the Inspector to determine next steps as are required to achieve and maintain compliance with a license and the Act.

A. Keim

Inspector's Name

Inspector's Signature

Cc:

Peter Kusugak - Manager Field Operations Section- Indian and Northern Affairs Canada
Phyllis Beaulieu – Manager Licensing – Nunavut Water Board



























