

NUNAVUT WATER BOARD	
Date:	<u>23/11/2000</u>
Exhibit No.:	<u>9</u>

## Intervention on the Iqaluit Municipal Water Licence Renewal Application

Department of Indian Affairs &  
Northern Development  
Fisheries and Oceans Canada  
Environment Canada

## Introduction

- Common concerns gave rise to a joint submission by DIAND, EC, and DFO
- Departmental mandates are described in the written submission

# Introduction

## ■ Items which will be discussed include:

- water use
- sewage disposal
- solid waste management
- operation and maintenance
- spill contingency planning
- monitoring, and
- abandonment and restoration issues.

# Water Use

## ■ Source and Volumes:

- Based on past consumption, the amount should remain at 1.1 million cubic metres per year
- The capacity of Lake Geraldine should be assessed, along with alternative sources
- Inspection of the reservoir dam is recommended to be done at least once during the licence term

## Waste Disposal - Sewage Lagoon

- The sewage lagoon will be used until the new plant is commissioned, and may be retained as a backup facility
- It is recommended that geotechnical inspections be done annually while in use, and any necessary repairs done

## Waste Disposal - New Sewage Plant

- The new Sewage Treatment Plant is expected to be operational in early 2001.
- The Departments recommend transition to the new plant by no later than Sept. 1, 2001.
- If delayed, the Town should be required to submit monthly progress reports to the NWB
- Options for sludge management should be identified and a plan submitted for approval

# Solid Waste Disposal

- The Town has made good progress with the “Solid Waste Management Planning Study”
- Submission of a final proposal for the new solid waste facility within 3 months of licence issuance is recommended
- A contingency plan should also be submitted for solid waste disposal during any period between facilities
- An A&R plan for the existing dump is needed

## Solid Waste Disposal - Hazardous Wastes

- It is recommended that the Town submit a plan for the management of hazardous wastes.
- Such a plan should include:
  - Characterization of the waste stream
  - provision for secure storage
  - handling & final disposal methods
- Land-farming of hydrocarbon contaminated soils should be investigated



## Operation and Maintenance

- The most recent plan approved was in 1995
- The Departments recommend that a revised O&M plan be submitted following issuance of this renewal licence
- One operational concern is the measurement of lagoon freeboard - installation of a gauge is needed.

## Spill Contingency Planning

- There is currently not an approved Spill Contingency Plan in place
- The Departments recommend that the licence conditions include the requirement for a revised plan to be submitted for approval within 3 months
- Annual updates should be done

## Abandonment & Restoration

- The existing sewage lagoon requires a practical closure plan which should be developed within 6 months, with implementation on approval
- The plan should consider:
  - interim remediation measures (supernatant treatment, runoff quality, sludge management)
  - potential use as a backup facility
  - long-term dyke stability
  - ways to reduce the lagoon footprint

## Abandonment & Restoration

- Plans submitted to date for remediation of the old landfill sites at Apex and West 40 have not been approved
- Appropriate A&R plans with implementation schedules should be submitted by specific dates under the new water licence.

## Monitoring and Licence Term,

- The Surveillance Network Program (SNP) should include field measurements
- Parameters and frequencies as specified in the 1999 water licence are acceptable
- A Quality Assurance/Quality Control Plan should be submitted under the SNP
- The requested Licence term of five years is acceptable

## Conclusion



The federal Departments thank the Board for this opportunity to participate in the development of a practical and environmentally-responsible renewal licence, and would be happy to answer any questions on our submission.