



**Indian and Northern
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November 2, 2007

Northwest Territories Water Board
P.O. Box 1326
Yellowknife, NT X1A 2N9

Attn: Vicki Losier, Executive Assistant

RE: Municipal Water Licence (N7L3-0714)

Dear Ms. Losier,

Please find the enclosed Inspection Report for your review and/or records.

An electronic copy (un-editable Adobe pdf.) has also been provided by e-mail.

If you have any questions or concerns regarding the enclosed, and/or if additional information is required please contact me at 867-777-3662.

Sincerely,

Jan Davies
Water Resource Officer

Cc: Conrad Baetz, District Manager, North Mackenzie District, Inuvik, NT
Inuvik Sub-District

Enclosure: Water Licence Inspection Report (3 pages)
Municipal Solid Wastes Suitable for Open Burning Document

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DATE:	August 2, 2007	COMPANY REP:	Peter Nogosak
LICENCEE:	Incorporated Hamlet of Tuktoyaktuk	LICENCE #:	N7L3-0714

WATER SUPPLY

Source:	Kudlak Lake	Quantity Used:	Unknown due insufficient reports
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Owner/Operator: Hamlet of Tuktoyaktuk

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Intake Facilities	N/I	Storage Structures	A	Treatment Systems	A	Chem. Storage	A
Flow Meas. Device	A	Conveyance Lines	N/I	Pumping Stations	N/I		

Comments:

Note:

- Intake Facilities, Conveyance Lines, Pumping stations located at Kudluk Lake were not inspected. The Conveyance Lines, Pump Station located at the Raw Water Reservoir and Truckfill Station were inspected and found to be Acceptable.
- Water meter is broken but use flow meter on pipe at roof level and records are being kept.
- There has been adequate clean up and remediation of Spill 04-572 to date.
- Due to the spill that occurred in 2004 at the Kudluk Lake water intake and pump station there are a number of measures being used. A propane motor is being used to run the pump and there is a diesel backup. The Raw Water Reservoir is filled over a 3 week period during which time there is a 24hr watch of the pump station a Kudluk Lake and it is checked 3 times a day.

WASTE DISPOSAL

Sewage	Sewage Treatment System (primary, secondary, or tertiary)			primary lagoon			
	Natural Water Body	A	Continuous Discharge (land or water)		N/A		
	Seasonal Disch.	A	Wetlands Treatment	N/A		Trench	N/A
Solid Waste	Owner/Operator:	Hamlet of Tuktoyaktuk					
	Landfill	U ^{1,4,5}	Burn & Landfill	Conditionally acceptable	Other	N/A	

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Discharge Quality	A	Construction	N/A	Disch. Meas. Dev.	A	Freeboard	U ⁴
Decant Structures	U ⁷	O&M Plan	U ⁶	Dams, Dykes	U ^{2,4}	Seepages	A
Dyke Inspections	N/A	A&R Plan	N/A	Erosion	U ²	Spills	U ³
Periods of Discharge	Late Fall		Effluent Discharge Rate		Equal to pump rate		

Comments:

Concerns

1. Signage was present at the Solid Waste Disposal Site however, additional signage is needed to further increase public guidance and waste segregation. Signs should be posted for but not limited to the following areas: domestic garbage, waste tires, waste appliances(washers/dryers, etc.), wood waste, bulky metal wastes, empty drums, honey bag pit, and hazardous waste(waste oil, batteries etc.).
2. There was visible erosion on the southside of the Sewage Lagoon and will need to be dealt with before greater erosion and damage to the dyke occurs. (see figure 1)
3. There was oil staining present at the sewage dump off in addition to the dyke surrounding the Sewage Lagoon. There is potential for this to contaminate water in the area. This contaminated soil needs to be removed and sent to a proper disposal facility. Leaks from vehicles need to be repaired to prevent further problems. (see figure 2)
4. There is less than 0.5 metres of freeboard maintained at the Solid Waste Lagoon. The dyke needs to be built up to ensure there is a proper freeboard. A freeboard limit of 0.5 metres shall be maintained at all times at all dykes and earthfill structures.(see figure 3)
5. There was a burn bin located on the north side of the Solid Waste Disposal Facilities. Burning of non-segregated Municipal Solid Waste(MSW) remains an unacceptable option for the management of MSW. Municipal Solid Wastes that are conditionally suitable for open burning are paper products, paperboard packaging and untreated wood wastes according to the document from the GNWT Department of Environment and Natural Resources titled 'Municipal Solid Wastes Suitable for Open Burning' (Please see enclosed document). (see figure 4)
6. A draft O&M Plan was submitted in October 2005 for the Solid Waste Disposal Facilities. There is no indication

- There has been adequate clean up and remediation of spill 0714-2 to date.
- Only the Sewage Lagoon was decanted in 2006, while both the Sewage Lagoon and Solid Waste Lagoon were decanted in 2005
 - Used oil goes to E-Grubens Transport
 - More signs were present on site at one time but some have been damaged.
 - Groundwater monitoring wells all around the Solid Waste Disposal Facility should be properly maintained. Monitoring wells should be covered and locked to prevent contamination of groundwater and future samples.

FUEL STORAGE

Owner:	Hamlet of Tuktoyaktuk	Operator:	Hamlet of Tuktoyaktuk	Condition of tanks:	Good
Berms & Liners	N/A	Water within Berm:	N/A	Evidence of Leaks:	None detected during inspection
Drainage Pipes	N/A	Pump Station and Catchment Berm		N/A	
Pipeline Condition	Corroded, no leaks detected	Not Applicable:		N/A	

Comments:

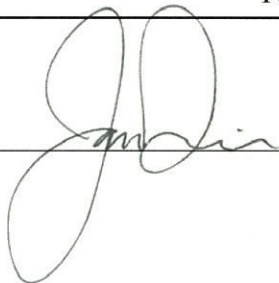
Notes

- It would be advisable to replace the corroded pipe from the fuel storage tank to eliminate the possibility of a spill.
- Since fuel is stored at the intake facilities it is recommended to have spill kits on site to respond to any spills that might occur.

SURVEILLANCE NETWORK PROGRAM

Samples Collected		Hamlet	Hamlet has collected samples	
		DIAND	Samples collected from SNP 0714-2 by Water Resources	
Signs Posted: SNP	Signs posted and correctly located		Warning	More signage needed throughout facilities. Need to identify the landfill and also where chemicals are stored.
Record & Reporting	2001-2006 Annual Reports not submitted			
Geotechnical Inspection	N/A			
Non-Compliance of Act or Licence:	<ol style="list-style-type: none"> 1. Part B, section 1. 2002-2006 Annual Reports not submitted. 2. Part B, section 4. Water meter is broken and not working. 3. Part C, section 2. As a result of not receiving the Annual Report the Annual Water usage is unknown. 4. Part D, section 3. A freeboard limit of 0.5 metres is not being maintained at all times at all dykes. 5. Part D, section 16. Water shall be removed from the Solid Waste Lagoon using a floating intake. 6. Part E, section 2. Written approval from the board is needed for a modification to the Decant Process and Structure. 7. Part H, section 1. No board approved O&M plan for the Solid Waste Disposal Facilities. 			

Inspector's Signature:



Date:	August 2, 2007	Licence #:	N7L3-0714
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Inspection Images:
Figure 1

Erosion present on dyke on the south side of the Sewage Lagoon.


Figure 2

Heavy staining present on Sewage Lagoon turnaround by offload chutes.


Figure 3

Less than 0.5 metres of freeboard maintained at the Solid Waste Lagoon.


Figure 4

Burn bin located on the north side of the Solid Waste Disposal Facilities.



Municipal Solid Wastes Suitable for Open Burning

Municipal solid wastes (MSW) that are conditionally suitable for open burning are paper products, paperboard packaging and untreated wood wastes only.

Conditions for this burning are:

- * The principle of source reduction should be utilized to reduce, reuse and recycle materials otherwise bound for landfill.
- * The appropriate materials are segregated and burned in a controlled manner and site which is separate from the working landfill so that the fire cannot spread. Standard burning conditions shall apply to burning such as on days where winds are light, blowing away from the community, in manageable volumes so that fires do not get out of control, having applicable permits and managed by an authorized, qualified person from the community. These are conditions also recommended in the Municipal and Community Affairs Solid Waste Modified Landfill Guidelines.
- * Building demolition wastes should not be burned unless they have been sorted to remove non-wood wastes such as roofing materials, electrical wire, plastics, asbestos and other non-wood wastes.
- * Waste wood treated with preservatives such as creosote, pentachlorophenol or heavy metal solutions shall not be burned. Examples of treated wood materials include railroad ties, telephone/hydro poles, pilings, cribbing and foundations.
- * Following a review of the specific landfill location, additional local conditions or controls may be applied.

Where geographic conditions do not allow for the proper operation of a modified landfill, such as because of limited availability of cover materials and unsuitable ground conditions, communities may have to assess other alternatives of MSW management ie: balefill, incineration. The open burning of non-segregated MSW remains an unacceptable option for the management of MSW. Continuation of this practise should not be allowed unless a site-specific assessment fails to identify a feasible and practical alternative. At that point some form of segregation will be required.