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October 19, 2007

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

Attn: **Vicki Losier, Executive Assistant**

RE: **Municipal Water Licence (N3L3-0570)**

COPY	
BOARD	5
G. W.	1
E. A.	1
W. RES.	OKIG.
NMDO	—
FILE	0570

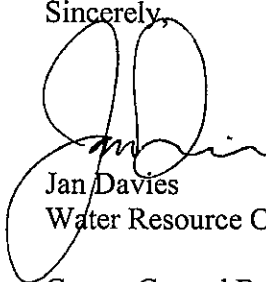
Dear Ms. Losier,

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





WATER LICENCE INSPECTION REPORT

DATE:	August 1, 2007	COMPANY REP:	Archie Arey – DPW, Dean Arey - Hamlet
LICENCEE:	Hamlet of Aklavik	LICENCE #:	G99L3-003 and N3L3-0570

WATER SUPPLY

Source:	Peel Channel - Mackenzie River	Quantity Used:	~20,000 Gallons/day
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Owner/Operator: Dept. of Public Works

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

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

Comments:

Concerns

1. There were holes in the wooden floor of the chemical storage room from spills from chemical storage drums. One drum was on it's side and there was a hole where the contents had been eating away at the wooden floor. The drum was upright and instructions given to replace the wooden floor panel that had holes in it. There is the possibility that some material has seeped/eaten through the floor and spilled on to the ground below.
2. Some different chemical storage containers consisting of polyelectrolyte bags, chlorine(hypochlorite solution) and aluminum sulphate were mixed amongst each other. Different chemical storage containers need to be stored in separate specific areas and not mixed amongst each another. This will decrease the possibilities of the chemicals reacting with one another and causing problems.

Notes

-From some old pictures that were available on site it appears that the initial screen for the water intake hose is not equipped with a screen in accordance with the most current edition of the Freshwater Intake End-of-Pipe Screen Guideline by Fisheries and Oceans Canada. It could not be confirmed if there was secondary intake screen that did comply with the Guideline. Upon discussion with DPW, the Water Supply Facility and Intake Facilities are being upgraded in 2010.

-Spilled filter sand on the ground from torn filter sand bags on a storage pallet should be cleaned up.

-There should be a spill kit on site due to fuel storage.

-There were empty oil containers by the Water Fill Station, from the water truck. It is important to properly dispose of these materials since this is the Hamlet's Water Supply facility.

WASTE DISPOSAL

Sewage	Sewage Treatment System (primary, secondary, or tertiary)	Natural primary Lagoon					
	Natural Water Body	A	Continuous Discharge (land or water)			A	
	Seasonal Disch.	N/A	Wetlands Treatment	A	Trench	N/A	
Solid Waste	Owner/Operator:	Hamlet of Aklavik					
	Landfill	U ¹	Burn & Landfill	No longer permitted	Other	N/A	

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

Discharge Quality	U ²	Construction	U ³	Disch. Meas. Dev.	A	Freeboard	N/A
Decant Structures	A	O&M Plan	U ⁴	Dams, Dykes	N/A	Seepages	N/A
Dyke Inspections	N/A	A&R Plan	N/A	Erosion	N/A	Spills	A
Periods of Discharge	Continuous		Effluent Discharge Rate		Natural outflow from lagoon		

Comments:

Concerns:

1. Burning of non-segregated Municipal Solid Waste is no longer allowed. 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).
2. Discharge Quality is unknown as SNP samples are not being collected.
3. Recent berm construction around the Bulky Metal Waste Area in the spring of 2007 occurred as a modification without notification of the Northwest Territories Water Board. (figure 1)
4. An updated Operational and Maintenance Plan has not been received. Please see records and reporting under "SNP" below.

5. 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.).
6. Spillage of used oil was noticed in the waste oil storage area. Please ensure that all hazardous materials are stored properly. When there has been spillage, make sure the soil is cleaned up, contained and properly disposed of.
7. Hazardous waste(waste oil, batteries etc.) areas are becoming permanent storage areas. Effort should be taken to dispose of this material appropriately. Long term storage of this material is not recommended.
8. Berm for the Honey Bag Pit needs to be lengthened and maintained so it surrounds the whole pit. (figure 2)
9. After the initial inspection with the Hamlet foreman a sheen was noticed on water in the wetland area and ditch along the road outside of the berm on the East Side of the Bulky Metal Waste Area. Water samples need to be taken to identify this sheen. (figure 3)

Notes:

- Used oil containers along with garbage were seen at the sewage inflow structure and should be taken to the Solid Waste Disposal Site.
- Discharge Measuring Device consists of using the amount of potable water delivered to the Hamlet as an estimation of sewage that is discharged from the sewage lagoon.

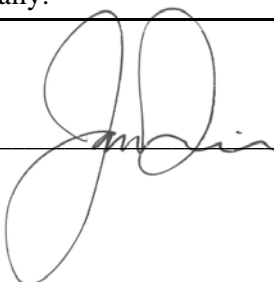
FUEL STORAGE

Owner:	Department of Public Works	Operator:	Department of Public Works	Condition of tanks:	Excellent
Berms & Liners	N/A Double Walled Tank	Water within Berm:	N/A	Evidence of Leaks:	None
Drainage Pipes	N/A	Pump Station and Catchment Berm	N/A		
Pipeline Condition	Excellent	Not Applicable:	N/A		

SURVEILLANCE NETWORK PROGRAM

Samples Collected		HAMLET	No samples collected by Hamlet	
		DIAND	Samples collected from SNP 570-3 by Water Resources	
Signs Posted:	SNP	570-4, unable to confirm 570-3	Warning	Some signage present, more needed
Record & Reporting	<p>- 2004, 2005 and 2006 Annual Reports not received.</p> <p>- 2003 Annual Report was received but was deemed incomplete by this office. The report did not include SNP data as required by Water Licence N3L3-0570. Please ensure that all sections of Annual Report requirements as indicated in Part A, section 3 (a through e) are addressed.</p> <p>- Updated & Recent O & M Plan was due December 30, 1999 as per Water Licence N3L3-0570 Part B, section 8. The latest O & M Plan currently on file at this office is dated 1985 and was produced by AESL of Alberta. This Plan was approved in 1995 by the NWT Water Board.</p>			
Geotechnical Inspection	N/A			
Non-Compliance of Act or Licence:	<p>Violations of Water Licence N3L3-0570</p> <ol style="list-style-type: none"> 1. Part A3, 2004, 2005, 2006 Annual Reports not submitted. 2. Part A3, 2003 Annual Report incomplete. 3. Part A4, Non compliance with Surveillance Network Program 4. Part B8, O&M Plan due December 30, 1999. 5. SNP B1, Surveillance Network Program sampling not conducted. 6. SNP D1, Information generated by Surveillance Network Program not submitted annually. 			

Inspector's Signature:





WATER LICENCE INSPECTION REPORT Pg. 3 (Continued)

Date:	August 1, 2007	Licence #:	G99L3-003 and N3L3-0570
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Inspection Images:

Figure 1
Berm around the Bulky Metal Waste Disposal Area.



Figure 2
Honey Bag Pit needs to have the berm lengthened so it surrounds the whole pit.



Figure 3
Sheen in the wetland area and ditch by Bulky Metal Waste Disposal Area.



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.