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April 16, 2009

Northwest Territories Water Board  
P.O. Box 2531  
Inuvik, NT X0E 0T0

**Attn: Mike Harlow, Executive Director**

**RE: Municipal Water Licence (N7L3-1531)**

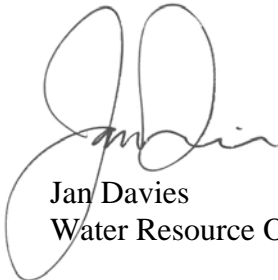
Dear Mr. Harlow,

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 FORM

<b>DATE:</b>	September 9, 2008	<b>COMPANY REP:</b>	Raymond Kaslak
<b>LICENCEE:</b>	Hamlet of Sachs Harbour	<b>LICENCE #:</b>	N7L3-1531

### WATER SUPPLY

Source:	Water Lake	Quantity Used:	>4400 m <sup>3</sup> *Exceeded Licence Limits, see below
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Owner/Operator: MACA / Hamlet of Sachs Harbour

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

Intake Facilities	A	Storage Structures	N/A	Treatment Systems	A	Chem. Storage	A
Flow Meas. Device	A	Conveyance Lines	A	Pumping Stations	A <sup>1</sup>		

Comments:

Concerns:

1. Backup generator not working properly, scheduled to be repaired.
2. Water usage according to available Hamlet records is ~4508 m<sup>3</sup> which is more than currently allotted in the Water Licence – 4400 m<sup>3</sup>. The Hamlet of Sachs Harbour needs to apply for an amendment to the Water Licence from the Northwest Territories Water Board to increase the quantity of water that can be used.

Notes:

- Intake fixed and was working at the time of inspection.
- Trouble with chlorination – pucks are being used but might switch to liquid chlorine
- Crushing pucks generates dust, dust masks are being used but it should be assessed whether breathing masks with cartridges should be worn.

### WASTE DISPOSAL

Sewage	Sewage Treatment System (primary, secondary, or tertiary)	Primary				
	Natural Water Body	✓	Continuous Discharge (land or water)		N/A - No sewage effluent discharged	
	Seasonal Disch.	N/A	Wetlands Treatment	✓	Trench	N/A
Solid Waste	Owner/Operator:	Hamlet of Sachs Harbour				
	Landfill	✓	Burn & Landfill	Conditionally acceptable	Other	N/A

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

Discharge Quality	A <sup>7</sup>	Construction	U <sup>2</sup>	Disch. Meas. Dev.	A	Freeboard	N/A
Decant Structures	N/A	O&M Plan	N/A	Dams, Dykes	N/A	Seepages	N/A
Dyke Inspections	N/A	A&R Plan	N/A	Erosion	U <sup>1</sup>	Spills	U <sup>2</sup>
Periods of Discharge	Sewage Lagoon does not appear to discharge.			Effluent Discharge Rate	N/A		

Comments:

Concerns:

1. Erosion is occurring around the sewage discharge chute at the Sewage Disposal Facility(SDF). Maintenance needs to occur around chute and area to prevent further erosion. Sewage truck needs a truck tire stop/barricade. (see Figure 1)
2. An old POL tank farm spill on the beach in front of the Hamlet has been excavated and dumped on a geotextile liner. It was requested by the Hamlet to remove the soil to the Solid Waste Disposal Facility(SWDF). Contaminated soil has been transported to the SWDF. During the inspection it was mentioned that there should be a berm/liner at the SWDF for the contaminated soil. The presence of contaminated soil at the SWDF occurred as a modification without notification of the Northwest Territories Water Board and without proper containment is unacceptable and could lead to further contamination. The Hamlet needs to comply with the Water Licence Part E: Conditions Applying to Modifications and provide proper containment for the contaminated soil. (see Figures 2 and 3)
3. Continued improvement on waste segregation is needed. 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).
4. Burning of non-segregated Municipal Solid Waste (MSW) is still occurring. Burning of non-segregated MSW remains an unacceptable option for the management of MSW. 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)

5. There was no place for waste animal parts. Waste animal debris was seen at the landfill and needs proper disposal.
6. Many barrels present that need proper disposal. Some on pallets waiting to be removed.
7. Sewage Disposal Facility(SDF) does not appear to discharge, however INAC Water Resources Division – Catherine Mallet took water samples from two locations and they were within Water Licence effluent quality standards.
8. It is evident that more space is needed at the Solid Waste Disposal Facility (SWDF) for additional solid waste cells. The current solid waste cell needs to be properly maintained and covered which would assist with preventing windblown debris.

Note:

- Waste oil – used oil collected by NT Power Corp. Hamlet has a waste oil burner which is not being used
- Batteries are collected in the Hamlet then shipped out.
- Area surrounding the SWDF had been cleaned up of windblown debris, better fence around solid waste cell.
- There are still materials/debris on the area of the old SWDF site and are being moved to the new SWDF.

**FUEL STORAGE**

Owner:	MACA	Operator:	Hamlet	Condition of tanks:	good
Berms & Liners	A	Water within Berm:	some present	Evidence of Leaks:	None
Drainage Pipes	A	Pump Station and Catchment Berm	A		
Pipeline Condition	A	Not Applicable:	N/A		

Comments:

Notes

- Drip pan inside emergency generator shed had some heating oil in it. There was no evidence of leaks, drips etc.
- Fuel storage tank berm – some rusting where water located.

**SURVEILLANCE NETWORK PROGRAM**

Samples Collected	Hamlet	No samples taken.	
	DIAND	Samples were taken from sewage entry point and suspected discharge location (SNP 1531-2) by INAC Water Resources Division – Catherine Mallet.	
Signs Posted: SNP	None present but need to indicate the areas where sampling occurs.	Warning	Signage needed for Sewage Lagoon, Water Treatment Plant and the Solid Waste Disposal Facility to assist with waste segregation.
Record & Reporting	No recent reports have been submitted		
Geotechnical Inspection	N/A		

Comments:

Concerns:


1. Sampling needs to occur as per the Surveillance Network Program to monitor water quality at the Sewage Disposal Facility.
2. Ensure Annual Reports are submitted as per Water Licence Criteria Part B1.

Notes:

- All indications are that the Sewage Disposal Facility(SDF) is a natural water body and is the lowest elevation in the immediate area and does not appear to discharge. The opposite side of the SDF from the sewage discharge chute would be where any discharge would occur as this is a low lying wetland area.

<b>Non-Compliance of Act or Licence:</b>	Violations of Water Licence N7L3-1531 1. Part B1, 2004, 2005, 2006, 2007, 2008 Annual Reports not submitted. 2. Part C3, Annual quantity of water has exceeded current Licence Limits of 4,400 m <sup>3</sup> 3. Part E1, 2, 3, Modification of SWDF to include Hydrocarbon Contaminated Soil Area.
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Inspector's Signature:





## WATER LICENCE INSPECTION REPORT Pg. 3 (Continued)

Date:	September 9, 2008	Licence #:	N7L3-1531
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### Inspection Images:

**Figure 1**

Erosion occurring at the sewage discharge chute. Truck tire stop/barricade is needed.



**Figure 2**

Contaminated soil pile from the tank farm spill excavation with no visible containment at Solid Waste Disposal Facility.



**Figure 3**

Contaminated soil pile with visible geotextile liner at the excavation site.



**Figure 4**

Burning of non-segregated Municipal Solid Waste is still occurring.

