



North Mackenzie District
P.O. Box 2100
Inuvik, NT X0E 0T0

Telephone: 867-777-8900
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September 22, 2011

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

Attn: Freda Wilson, Office and Finance Administrator

**RE: Municipal Water Licence N7L3-0714
CLASS B - MUNICIPAL**

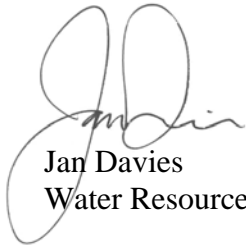
Dear Ms. Wilson,

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) 777-8909.

Sincerely,



Jan Davies
Water Resource Officer

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

Enclosure: Municipal Water Licence Inspection Report and Cover Letter (8 pages)



North Mackenzie District
P.O. Box 2100
Inuvik, NT X0E 0T0

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September 22, 2011

Incorporated Hamlet of Tuktoyaktuk
Box 120
Tuktoyaktuk, NT, X0E 1C0

Attn: Tom Matus

**RE: Municipal Water Licence N7L3-0714
CLASS B - MUNICIPAL**

Dear Mr. Matus,

An inspection was conducted of the Municipal Water Supply and Waste Disposal Facilities on September 8, 2011. Enclosed is a copy of the Water Licence Inspection Report.

The Hamlet is to be comended for their efforts to improve compliance by providing over due Annual Reports, collecting waste to ship out for recycling, seeking alternate locations for waste infrastructure, and taking samples for the Surveillance Network Program requirements. Unfortunately, there were a number of violations as depicted on page five of the Inspection Report. Some of the violations are administrative and/or simple in nature so they can be dealt with promptly. Please review and address the concerns throughout the Inspection Report.

While progress is being made on certain issues, there are terms and conditions of your Water Licence that are being neglected resulting in non-compliance/violations. Upon review of previous years Inspection Reports it is apparent that many of the violations and concerns outlined in the Inspection Report are consistent with those in previous years. Please address the aforementioned items as non-compliance with the Water Licence is a serious matter.

Please note that it is the Hamlet's responsibility to ensure compliance with all of the terms and conditions of its Water Licence. Aboriginal Affairs and Northern Development Canada looks forward to working with you as much as possible to achieve compliance.

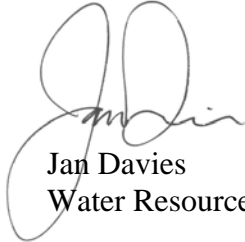
A copy of this report will be sent to the Northwest Territories Water Board for their review and public records.



MUNICIPAL WATER LICENCE INSPECTION FORM

If you have any questions/concerns regarding the enclosed, and/or if additional information is required, please do not hesitate to contact me at (867) 777-8909.

Sincerely,



Jan Davies
Water Resource Officer

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

Enclosure: Municipal Water Licence Inspection Report (6 pages)

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MUNICIPAL WATER LICENCE INSPECTION FORM

LICENCE #:	N7L3-0714	EXPIRY DATE:	November 20, 2013
LICENCEE:	Hamlet of Tuktoyaktuk	PREVIOUS INSPECTION:	September 3, 2010
COMPANY REP:	Tom Matus	INSPECTION DATE:	September 8, 2011

WATER SUPPLY

Source:	Kudlak Lake	Quantity Used:	41,769 m ³
Owner/Operator:	Hamlet of Tuktoyaktuk	Meter Reading:	68,506.43 m ³

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

Intake Facilities	N/I	Storage Structures	A	Treatment Systems	A ^{1,2}	Recycling	N/A
Flow Meas. Device	A	Conveyance Lines	A	Pumping Stations	A ^{1,2}	Chem. Storage	A ¹
						Modifications	N/A

Water Supply Comments:

Concerns:

1. There are a large amount of empty sodium hypochlorite(chlorine) containers that need to be disposed of (see Figure 1). Ensure they are properly cleaned and rinsed to get rid of any residuals so as to minimize risk to the environment and any possible future users. They are located by the day tank (fuel tank) located in the Water Treatment Plant (WTP).
2. No drip trays under the emergency generator but are suggested. Continue to monitor as regular operation and maintenance will require its use as eventually there will be oil present. For future operations please ensure that any maintenance activities on WTP equipment are cleaned up afterwards and pose no risk to the cleanliness of the facility.

Notes:

- Whole WTP looks well kept, tidy and chemicals kept in the designated area. A clean facility. The WTP has been operational for a while and appears to be working well. WTP has a bathtub floor and floor drain with a sump pump leading to the facility waste tank.
- No warning signs at WTP noted. "No Unauthorized Access" signage would be appropriate given the importance the WTP serves for water supply for the Hamlet and public safety.
- No recent geotechnical inspection on the Hamlet reservoir but in 2009 Divers came and inspected the reservoir bottom and looked at the sediment buildup. The Hamlet wanted to see if they would clean it out but the divers said it was fine. GNWT – MACA - Lorie Fyfe(Inuvik) has the information about the inspection.
- Water Rervoir looks to be almost back up to fill capacity. There are pumps backfilling from the intake located in Kudlak Lake. However, at the time of Inspection there appeared to be issues with the water being pumped from the lake.
- Due to the spill that occurred in 2004 at the Kudluk Lake (Spill #04-572) water intake facility 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.
- Intake Facility located at Kudluk Lake inspected on March 19, 2010, conditions were acceptable.

WASTE DISPOSAL

Well Waste:	Off-Site Removal	N/A	Drilling Sump	N/A	Downhole	N/A	Land spread	N/A
Solid Waste:	Open Dump	N/A	Landfill	A ^{7,9-20}	Burn & Bury	Conditionally acceptable	Under ground	N/A
	Owner / Operator	Hamlet of Tuktoyaktuk	Sludge Disposal	N/A	Other	N/A		
Tailings:	Tailings Pond	N/A	Natural Lake	N/A	Under ground	N/A		
Sewage:	Sewage Treat. System	A ^{1,2,3,4,5}	Camp Sump	N/A	Natural Water Body	A	Wetland Treatment	A
	Continuous Discharge	N/A	Inter. Discharge	N/A	Seasonal Discharge	A	Trench	N/A

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

Discharge Quality	A ⁴	Construction	N/A	Disch. Meas. Dev.	A	Freeboard	U ^{4,13}
Decant Structures	A	O&M Plan	U ⁶	Dams, Dykes	A	Seepages	N/A
Dyke Inspections	N/A	A&R Plan	N/A	Erosion	A	Spills	A ^{3,8}
Conveyance Lines	N/A	Pond Treatment	N/A	Runoff Diversion	N/A	Sump Treatment	N/A
Sump Liners	N/A	SNP Samples Collected		Yes ⁴			
Periods of Discharge	Late fall decant.	Effluent Discharge Rate		Equal to pump rate			

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MUNICIPAL WATER LICENCE INSPECTION FORM

Waste Disposal Comments:

Concerns:

1. In the sewage lagoon a sheen was below the sewage discharge chutes on the northern edge of the lagoon (see Figure 2). It appeared that the sheen and scum layer were at the one end due to prevailing winds/wave action. A sample for oil and grease was taken as part of the sampling for the sewage lagoon discharge. The results can be assessed then if it is still within discharge criteria.
2. Tire stops should be used as some erosion occurring at the sewage discharge chute. Adequate clearance with the sewage trucks is needed so distances should be measured out before tire stops are installed. This would protect against infrastructure damage and also prevent further erosion which over time will need to be repaired.
3. Oil staining present at turn around pad for sewage discharge chutes. The leaking oil from the sewage trucks needs to be assessed and repaired. It is not acceptable to have leaking equipment that are working with water related infrastructure.
4. At the time of Inspection the sewage lagoon was around 0.5 metres freeboard at the berm, which is less than the required 1.0 metres freeboard for its operation which is a violation of Part D: Conditions Applying to Waste Disposal, Item 6, in the Water Licence. Samples were taken for the planned sewage discharge and the results had not come back from Taiga Lab. A fuel tank had already been mobilized to the berm/discharge area. Also the Hamlet of Tuktoyaktuk should apply to the Northwest Territories Water Board to have the Water Licence amended and receive approval to installed a weir or decant structure such that there can be a constant discharge of the sewage lagoon in a controlled small amount year round.
5. Please note that during the Inspection it was learned that the Hamlet was planning to discharge the sewage lagoon. Samples were collected and some equipment mobilized. It is important for the Hamlet to maintain compliance with Part D: Conditions Applying to Waste Disposal, Item 3, in the Water Licence which states: "The Licensee shall advise an Inspector at least ten (10) days prior to initiating and decant of the Sewage Disposal Facilities." There can easily be a phone call to the Inspector when a decant is planned for the fall and even before samples are taken to continue compliance with this condition.
6. The SWDF and Sewage Disposal Facility Operation and Maintenance Plans(O&M Plans) need to be updated and it is apparent that components of the currently approved Plans are not being followed which is a violation of Part E: Conditions Applying to Operation and Maintenance, Item 4, of the Water Licence. Ensure that Hamlet staff are familiar with the current O&M Plans and that they are being properly implemented. A copy must be onsite and readily available. **A Sewage Treatment Plan is due January 31, 2012 and A Municipal Solid Waste Operations and Maintenance Plan (O&M Plan) is due June 30, 2012.**
7. There are hazardous wastes (oil/fuel containers, drums, batteries (some cracked), etc.) located throughout the SWDF (see Figure 3) but need to be segregated in a designated temporary storage area that needs to have a berm so as to ensure containment for the hazardous waste. The blue building present on site could easily fulfill this requirement if all the hazardous was stored and contained there (see Figure 4). The roof over head provides an excellent cover for a bermed area as well. It would be important to store full and empty drums separately to aid in any future waste disposal activities. All these procedures would aid in ensuring wastes are collected in an organized and secure fashion that would then be ready for shipping out for disposal. Since the hazardous wastes are not stored in a bermed temporary storage area, this is a violation of Part D: Conditions Applying to Waste Disposal, Item 23, of the Water Licence.
The Hamlet needs to make certain hazardous wastes (oil/fuel containers (are sealed and made secure), batteries, etc.) are collected and properly stored. The Hamle Foreman mentioned collecting used oil and batteries at an old shop in the Hamlet. In the containment/storage areas these materials need to be collected, consolidated, prepared and either shipped to an approved facility for disposal or burned (fuel and/or oil) in approved equipment. This will ultimately maintain the SWDF in a well managed state that encourages public participation and assistance. There needs to be regular checks at the SWDF for leaks and subsequent repairs including containment of leaking drums, containers, materials to prevent spills and further contamination of the environment. Ensure drums are secure, contained, properly segregated and fluids are unable to leak from containers (strong drum, bung in place, no holes). If required, fluids should be transferred to secure and approved containers.
8. A Spill Contingency Plan was not provided by January 31, 2011 to the Northwest Territories Water Board and is a violation of Part E: Conditions Applying to Operation and Maintenance, Item 1, of the Water Licence.
9. Black geotextile liner that smelled of hydrocarbons, located by the bulk metal waste area on the north side of Solid Waste Disposal Facility (SWDF). This waste is not to be in the bulk metal waste area and needs to be properly disposed of with the domestic waste.
10. There are segregated bulk metal waste on the north side of the SWDF but it still needs to be sent out for disposal. These are remnants of a Inuvialuit Land Administration program for collecting the waste material but it is still awaiting disposal. There have been issues with the waste presence because it is over and above what would have normally come to the Tuktoyaktuk SWDF.
11. There were wooden sea crates of contaminated soil in geotextile liners sealed and stored at the SWDF (see Figure 5). It needs to be sent to a proper contaminated soil remediation and/or disposal facility. Since this soil was located at the SWDF without notification of the Inspector this is a violation of Part D: Conditions Applying to Waste Disposal, Item 21, in the Water Licence which states: "The Licensee shall notify an Inspector when any cotaminated soil or contaminated snow is deposited at the Solid Waste Disposal Facilities." It is encouraging to see the soil is properly contained and secured but notification should have occurred. Now the waste is needing proper disposal as it will continue to be a potential risk of contamination.
12. There needs to be improved management of the SWDF as it appears that material is being piled/collected where its convenient and not where it should go. Waste segregation has not been maintained thus various waste streams are getting mixed. Thus space is not being used efficiently. Signage was present for dog disposal and honey bag pit. Waste segregation signage at each specific area and the continued use of barriers are needed in the SWDF to further increase public guidance. This would aid in ensuring that waste goes in the proper location and saves against improperly sorted waste that ends up getting moved by Hamlet staff. Ensure signage is in the appropriate location and continually maintained to further increase public guidance and assistance.
If waste is disposed of in the wrong area it should be moved before other waste accumulates there as well. Signage should be present for but not limited to the following: bulk metal waste, white metal waste (fridges, washers/dryers, etc.), hazardous waste (drums, batteries, etc.), empty drums, fuel tanks, tires, vehicles/ATVs/ skidoos, honey bag pit, waste animal pit, domestic/household garbage, paper/wood/cardboard- designated burning area, etc. Segregation will aid in an organized site that residents will respect and help maintain. This will also keep costs down in the future when it is time to recycle waste or abandon and restore the site which will eventually happen because the Hamlet is assessing new locations for a SWDF.
13. The freeboard at the SWDF lagoon was between ¾ -1 metre which is approaching the freeboard limit criteria (0.5 metres) in the Water Licence for the SWDF lagoon. The lagoon appears quite full of water and there has not been a decant for some time. Previously results were acceptable for decanting but time ran out for it to occur. If a wider range of time is needed for the decant to be allowed to occur, the Hamlet will need to apply to the Northwest Territories Water Board for an amendment to the Licence.

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MUNICIPAL WATER LICENCE INSPECTION FORM

14. A reminder that if there is any planned decant for the SWDF lagoon please allow for compliance with Part D: Conditions Applying to Waste Disposal, Item 9, in the Water Licence which states: “The Licensee shall notify an Inspector at least thirty (30) days prior to any discharge of water from the Solid Waste Disposal Facilities.” There can easily be a phone call to the Inspector before both a decant is thought to be occurring in the Fall or samples are taken, in order to continue compliance with this condition. Please note that discharging may commence upon receipt of an Inspector’s approval as per Part D: Conditions Applying to Waste Disposal, Item 10, in the Water Licence. **An assessment of the effects of the Solid Waste Disposal Facilities on the small bay adjacent to the facilities is due July 31, 2013.**

15. In conversations with the Hamlet Foreman during inspections and in previous Inspection Reports it was noted that the floating intake used while decanting the SWDF lagoon has difficulty because the line is so heavy once full of water and consequently plywood is used under the intake instead. The Hamlet of Tuktoyaktuk is reminded to apply to the Northwest Territories Water Board for an ammendment to the Water Licence specifically Part D: Conditions Applying to Waste Disposal, Item 17. This will allow for the Hamlet to remain in compliance with the Licence and allow for the current method of decanting.

16. There is too much waste (garbage, building debris, containers of all kinds, domestic waste, equipment, etc) in amongst the water and surrounding land at the SWDF. There was even a Caterpillar excavator piece of equipment located in the lagoon. Waste is all along the containment berm on the west side of the SWDF. The various waste streams present in amongst the SWDF lagoon are unacceptable and is a violation of Part D: Conditions Applying to Waste Disposal, Item 25, in the Water Licence. It needs to be cleaned up, removed, segregated and properly disposed of in a waste cell. The whole area needs clean up initiated as it will take a long time to occur and any proper maintenance now will mean less work later on when it comes time to abandon and restore the site.

It is proactive to have a fence surrounding the perimeter of the site (none present on the west side by the ocean but should be installed to further contain waste). Windblown debris continues to be a rampant problem throughout the SWDF. Solid waste cell capping, regular intermittent covering with fill and improved area fencing are measures needed to control windblown debris. Fill material is needed to cover the whole facility as it is clear this has not been occurring for some time. It is understood that the new source 177 gravel quarry is now accessible. There needs to be a proper cell, berm, cap etc constructed for the SWDF as this will be needed to have waste properly contained. Maintenance of the SWDF needs to start in order to catch up on this problem and before initiating the process to properly abandon and restore the whole area as per Part H: Conditions Applying to Abandonment and Restoration, Item 1, before a new SWDF is constructed.

17. All ground water wells need maintenance – any excess pipe needs to be cut off, ensure well cap securely closes, and each well is locked (see Figure 6). This also prevents any possible contamination of groundwater and/or any future samples to be collected.

18. It was commented by the Hamlet Foreman about waste coming from a Shingle Point cleanup and going into the Tuktoyaktuk SWDF. There was large bulky waste present which is inappropriate as the Hamlet already struggles with its own waste. If there are cleanups going on the waste should be sent south for recycling and disposal.

19. Under the SWDF blue building were some unique hazardous waste materials present – 5 gallon pails/metal buckets (see Figure 4). The identity of these containers and contents needs to be confirmed, stored appropriately, and the materials disposed of properly.

20. There was pooled water present in amongst the SWDF waste cell area near the entrance of the facility (see Figure 6). Drainage water needs to be prevented from going through the cell area where the current domestic waste etc. is piled up. The drainage ditches and other possible sources of water need to be maintained and have water moving away from the site.

Notes:

- There are plans to relocate the SWDF and the Sewage Disposal Facilities down along the new source 177 gravel quarry access road. Potential sites have been identified and further work is occurring. The current SWDF has been around for more than 24 years according to the Hamlet Foreman, while the berm for its lagoon has been around approx. 15-20 yrs.
- There is a project being conducted by the Inuvialuit Land Administration to bring waste metal from off the land to the SWDF for preparation in order to be sent out for disposal.
- During the September 3, 2010 Inspection there were propane and welding tanks present which present a hazard. Please see that these forms of waste are appropriately emptied, deactivated (even by the source/owners of the waste) so they can be disposed of properly, and/or shipped out for proper disposal
- Burn bin (old tank cut in half) on the north side of the SWDF, is used to burn personal items from estates, paper etc.
- Batteries collected by the Hamlet to send out with a contractor.
- The sewage lagoon was a dark green colour which indicates the system operations are acceptable.
- There are approximately 8-9 truckloads of sewage taken to the sewage lagoon daily.
- More gravel was present on the berm at the sewage discharge area which filled in the erosion that was occurring from before
- During past Inspections there were fuel and oil leaks present on and by the pump for the sewage decant and needed to be prevented/cleaned up. Ensure a spill kit and drip pads are present for the operation of the pump(and it’s associated fuel tank) used for the sewage lagoon and Solid Waste Disposal Facility (SWDF) lagoon decants. Drips and spills are possible sources of contamination to nearby water bodies and need to be prevented.
- **A Sewage Treatment Plan is due January 31, 2012**
- **A Municipal Solid Waste Operations and Maintenance Plan is due June 30, 2012.**
- **Assessment of the effects of the Solid Waste Disposal Facilities on the small bay adjacent to the facilities is due July 31, 2013.**

FUEL STORAGE

Owner:	Hamlet of Tuktoyaktuk	Operator:	Hamlet of Tuktoyaktuk	Condition of tanks:	A
Berms & Liners	N/A	Water within Berm:	N/A	Evidence of Leaks:	None
Drainage Pipes	A	Pump Station and Catchment Berm	N/I	Runoff Diversion	N/A
Pipeline Condition	A ¹	Not Applicable:	N/A		

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MUNICIPAL WATER LICENCE INSPECTION FORM

Fuel Storage Comments:

Concerns:

1. There appears to be some weeping from pipe connections in amongst the fuel pipeline corners along the floor of the Water Treatment Plant (WTP). Continue to monitor in case a larger issue is revealed and repairs are needed.

Notes:

- As part of the new WTP there are new fuel tanks inside and outside the WTP - new double walled fuel storage tank outside with a day tank inside the facility with a metal berm. Day tank has venting going outside; continue to monitor so as to prevent any spills if there is a malfunction. Both look great and no issues were noted.
- Valves for the outside tank have been removed to protect against vandalism and theft.
- Flex pipe for outside fuel tank and pipeline looked straight with no signs of movement, however, continue to monitor the current setup against the seasonal changes which could shift infrastructure etc over time.

SURVEILLANCE NETWORK PROGRAM

Samples Collected Hamlet	Samples have been collected from the sewage lagoon for a decant but results are not yet available from the lab.		
Samples Collected DIAND	No samples were collected at the time of inspection.		
Signs Posted: SNP	SNP signage is N/A. Maps have not been provided. ²	Warning	Water Treatment Plant sign – Tuktoyaktuk Truckfill Station. Signage is still needed for remaining Water Supply Facilities, Solid Waste Disposal Facilities, and Sewage Disposal Facilities. ¹
Record & Reporting	<ul style="list-style-type: none"> - 2010 Annual Report was due by April 30, 2011 and has not been submitted.³ - 2009 Annual Report was never submitted.³ - 2003-2008 Annual Reports were submitted on November 4, 2009. - A Spill Contingency Plan has not been submitted.⁴ 		
Geotechnical Inspection	N/A - but an inspection of the berms for the water reservoir, sewage lagoon, and Solid Waste Disposal Facilities lagoon by an engineer after all these years would be proactive to ensure they structurally sound and to prevent any infrastructure issues.		

Surveillance Network Program Comments:

Concerns:

1. The Water Treatment Plant had a sign stating – Tuktoyaktuk Truckfill Station. There was a sign located at the Sewage Disposal Facility along the fence near the sewage discharge chutes that needed to be repaired. It was a very well worded sign for the site and its associated hazards/requirements. The Intake Facility located at Kudluk Lake was inspected on March 19, 2010 and no signage was present. Signs are to be posted to inform the public of the Solid Waste Disposal Facilities, Sewage Disposal Facilities, and remaining aspects of the Water Supply Facilities. Since these signs are missing this is a violation of Part B: General Conditions, Item 5, in the Water Licence.
2. Since SNP signage is no longer required it is now necessary for the Hamlet to provide a map or drawing indicating the locations of the SNP sampling locations. In light of the recent workshop that occurred with the Northwest Territories Water Board in August 2011 there was a SNP map provided to the Hamlets and would fulfill the SNP map requirement by the Water Licence. Since the Hamlet has not provided a map, this is a violation of Part B: General Conditions, Item 4, of the Water Licence.
3. Both the 2010 and 2009 Annual reports have not been submitted and should be done to maintain the positive record flow that was already started. Since these reports have not been provided this is a violation of Part B: General Conditions, Item 1, of the Water Licence. If data is limited the Annual Report should be sent with what information is known so there are records available. The Hamlet is to be commended for providing the 2003-2008 Annual Reports on November 4, 2009.
4. A Spill Contingency Plan was not provided by January 31, 2011 to the Northwest Territories Water Board and is a violation of Part E: Conditions Applying to Operation and Maintenance, Item 1, of the Water Licence.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

Part B: General Conditions, Item 1,

"The Licensee shall file an Annual Report with the Board and an Inspector no later than April 30th of the year following the calendar year reported..."

Part B: General Conditions, Item 4,

"The Licensee shall, within 60 days of the issuance of this Licence, submit to the Board for approval a map or drawing indicating the location of all Surveillance Network Program sampling stations."

Part B: General Conditions, Item 5,

"The Licensee shall, within 60 days of issuance of the Licence, post signs in the appropriate areas to inform the public of the Water Supply, Waste Disposal Facilities and the segregated temporary storage of Hazardous waste areas. All postings shall be located and maintained to the satisfaction of an Inspector."

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MUNICIPAL WATER LICENCE INSPECTION FORM

Part D: Conditions Applying to Waste Disposal, Item 6,

“A Freeboard limit of 1.0 metres or as recommended by a qualified Geotechnical Engineer and as approved by the Board, shall be maintained at all dykes and earthfill structures associated with the Solid Waste Disposal Facilities.”

Part D: Conditions Applying to Waste Disposal, Item 21,

“The Licensee shall notify an Inspector when any contaminated soil or contaminated snow is deposited at the Solid Waste Disposal Facilities.”

Part D: Conditions Applying to Waste Disposal, Item 23,

“The Licensee shall segregate and store hazardous Waste in a temporary storage area, to the satisfaction of an Inspector.”

Part D: Conditions Applying to Waste Disposal, Item 25,

“The Licensee shall ensure that any unauthorized Wastes associated with the municipal undertaking do not enter any Waters.”

Part E: Conditions Applying to Operation and Maintenance, Item 1,

“The Licensee shall submit to the Board for approval by January 31, 2011 a Spill Contingency Plan in accordance, for example, with the Guidelines for Spill Contingency Planning, April 2007, developed by INAC-Water Resources Division.”

Part E: Conditions Applying to Operation and Maintenance, Item 4,

“The Licensee shall implement the Spill Contingency Plan, the Sewage Treatment Plan, and the Municipal Solid Waste Operations and Maintenance Plan as and when approved by the Board.”

Inspector's Signature: _____

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MUNICIPAL WATER LICENCE INSPECTION FORM

Inspection Images:



Figure 1

A large amount of empty sodium hypochlorite (chlorine) containers that need disposal. Ensure they are properly cleaned and rinsed to get rid of any residuals so as to minimize risk to the environment and possible future users.



Figure 2

Seen below the sewage discharge chutes and northern edge of lagoon. A sample for oil and grease was taken as part of the sampling for the sewage lagoon discharge.



Figure 3

A pile of batteries located by the SWDF lagoon berm that need to be properly segregated from the other waste, stored and prepared for proper disposal.



Figure 4

There are hazardous wastes located throughout the SWDF that need segregation in a temporary storage area with a berm to ensure containment for the waste. The blue building present on site would fulfill this requirement and the roof over head provides a great cover for a bermed area as well.



Figure 5

There were wooden sea crates of contaminated soil in geotextile liners sealed and stored at the SWDF. It needs to be sent to a proper contaminated soil remediation and/or disposal facility.



Figure 6

All ground water wells need maintenance – any excess pipe cut off, ensure well cap securely closes, and locked. This also prevents any possible contamination of groundwater and/or any future samples to be collected. Drainage water needs to be prevented from going through the SWDF cell area where the current domestic waste is piled up.