



South Mackenzie District
41 Capital Drive #203
Hay River, NT X0E 1G2

Telephone: 867 874-6994
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September 2, 2011

Hamlet of Fort Liard
General Delivery
Fort Liard, NT X0G 0A0

Attn: John McKee, Senior Administrative Officer

**RE: Municipal Water Licence MV2009L3-0025
CLASS B - MUNICIPAL**

Dear Mr. McKee,

An inspection of the above noted operation was conducted on August 17, 2011 by Resource Management Officer Jayda Robillard .

Enclosed is a copy of the Municipal Water Licence Inspection Report. The Inspector would like to acknowledge the assistance and information provided by Mr. Bernie Bonnetrouge during the inspection, as well as the information provided by yourself and Mr. Alan Harris.

If you have any questions, please contact me at 867 874-6994.

Sincerely,

ORIGINAL SIGNED

Jayda Robillard
A/Water Resource Officer

Cc: Water Resource Div.
Mackenzie Valley Land and Water Board



MUNICIPAL WATER LICENCE INSPECTION FORM

LICENCE #:	MV2009L3-0025	EXPIRY DATE:	February 29, 2020
LICENCEE:	Hamlet of Fort Liard	PREVIOUS INSPECTION:	New
COMPANY REP:	John McKee, Senior Administrative Officer	INSPECTION DATE:	August 17, 2011

WATER SUPPLY

Source:	Underground Well (3)	Quantity Used:	To be Determined
Owner/Operator:	Hamlet of Fort Liard	Meter Reading:	See Comments

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

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

Water Supply Comments:

Outflow Meter Reading: 66 337 905 L
Truckflow Meter Reading: 5 853 942 L

The Water Treatment Facility has undergone upgrades in the past year, including new greensand filters, a chlorine injection pump system, UV treatment, a small day tank (25 gallons) inside a berm was installed in the building, a meter for measuring the water usage of the building and a cardlock system for the trucked water dispenser.

There are inconsistencies with the flow meters readings, the Hamlet has identified this as a deficiency in the plant upgrade and expects this issue to be resolved as part of the completion of the plant upgrade. SNP stations within the plant require labelling, the Hamlet is also expecting this to be completed as part of the treatment plant upgrade. Storage of chemicals used in water treatment for both disinfection and softening were found to be satisfactory. The plant was neat and tidy at the time of inspection.

The Inspector appreciates the assistance of Mr. Bernie Bonnetrouge, Acting Municipal Works Manager during the inspection of the water treatment facility.

WASTE DISPOSAL

Well Waste:	Off-Site Removal		Drilling Sump		Downhole		Land spread	
Solid Waste:	Open Dump		Landfill	New Facility being constructed.	Burn & Bury		Under ground	
	Owner / Operator	Hamlet of Fort Liard	Sludge Disposal		Other			
Tailings:	Tailings Pond		Natural Lake		Under ground			
Sewage:	Sewage Treat. System	Primary - Three Cell Lagoons	Camp Sump		Natural Water Body		Wetland Treatment	
	Continuous Discharge		Inter. Discharge		Seasonal Discharge	To Land	Trench	

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

Discharge Quality		Construction		Disch. Meas. Dev.	N/I	Freeboard	A
Decant Structures		O&M Plan		Dams, Dykes	A	Seepages	
Dyke Inspections		A&R Plan		Erosion		Spills	



MUNICIPAL WATER LICENCE INSPECTION FORM

Conveyance Lines		Pond Treatment		Runoff Diversion		Sump Treatment	
Sump Liners		SNP Samples Collected		Not collected.			
Periods of Discharge	Seasonal	Effluent Discharge Rate		Approx. 29,171,000 litres in 2010.			

Waste Disposal Comments:

There is minimal segregation occurring at the current Fort Liard landfill, clean unpainted wood and the small amount of waste oil generated by the community. A new landfill is being constructed to the north of the old landfill site. There are a few items that remain to be completed at the new site. The Hamlet is hoping to have approval from the MVLWB to be able to use the new site this winter enabling them work on closing the current landfill.

Sewage Lagoon Cells 2 & 3 were not inspected due to muddy conditions preventing accessibility to those areas. Waste was being deposited in Cell 1 by the Sewar Truck during the inspection. A pump was setup between Cells 1 & 2 but was not in operation at the time of inspection. Decant from Cell 3 was not occurring at the time of inspection. The last decant at Cell #3 occurred in July. The next decant is expected to take place in the spring/summer of 2012.

FUEL STORAGE

Owner:		Operator:		Condition of tanks:	
Berms & Liners		Water within Berm:		Evidence of Leaks:	
Drainage Pipes		Pump Station and Catchment Berm		Runoff Diversion	
Pipeline Condition		Not Applicable:			

Fuel Storage Comments:

Not inspected.

SURVEILLANCE NETWORK PROGRAM

Samples Collected Hamlet	June 28, 2011 for SNP 1478-9 in preparation for Lagoon Cell #3 decant. Sample slightly exceeded the effluent quality standards for pH (between 6 and 9), results were 9.59.				
Samples Collected DIAND	Not collected.				
Signs Posted: SNP	Stations in the Water Treatment Plant will have proper signage upon completion of the plant upgrade.	Warning			
Record & Reporting	2010 Annual Report was received by the MVLWB on March 2, 2011.				
Geotechnical Inspection					

Surveillance Network Program Comments:

General Conditions Comments:

The inspection conducted on August 17th was satisfactory. The Hamlet is expecting to have the SNP signage completed and the issues with the water meters within the treatment plant resolved upon completion of the plant upgrade. Please note that the Sewage testing results for samples collected on June 28th from Cell #3 of the Lagoon slightly exceeded the effluent quality standards for pH in the Water Licence for this station. Please ensure that future samples meet the Water Licence Effluent Quality Standards prior to decant.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

None at the time of inspection.

Inspector's Signature: _____ Original Signed _____



MUNICIPAL WATER LICENCE INSPECTION FORM

Inspection Images:



Figure 1
Hamlet of Fort Liard Water Treatment Plant.



Figure 2
A new card lock reader has been installed as part of the water truck fill station at the water treatment plant.



MUNICIPAL WATER LICENCE INSPECTION FORM



Figure 3

A new 100L day tank with a berm has been installed in the plant.

Date:	August 17, 2011	Licence #:	MV2009L3-0025	Page No:	4
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From: [Kathleen Graham](mailto:Kathleen.Graham@mlwb.com)
To: permits@mlwb.com
Subject: FW: Water Licence Inspection Reports
Date: September-30-11 10:51:33 AM
Attachments: [MV2009L3-0025 Hamlet of Ft.Liard Aug 17 2011.pdf](#)
[MV2003L3-0006 Town of Ft Smith Aug 29, 2011.pdf](#)
[MV2009L3-0005 Town of Hay River Aug 25, 2011.pdf](#)

From: Jayda Robillard [mailto:Jayda.Robillard@aandc-aadnc.gc.ca]
Sent: September-30-11 10:38 AM
To: Kathleen Graham
Subject: Water Licence Inspection Reports

Hi Kathleen,

Attached are copies of the following water licence inspection reports for your files.

MV2009L3-0025 Hamlet of Ft. Liard
MV2003L3-0006 Town of Ft. Smith
MV2009L3-0005 Town of Hay River

Regards,
Jayda

Jayda Robillard
Resource Management Officer II
Aboriginal Affairs and Northern Development Canada (AANDC)
South Mackenzie District

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