



Telephone: 867-587-7203  
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September 26, 2017

The Charter Community of Délı̨nę  
P.O. Box 180, Deline  
Northwest Territories, X0E 0G0

<b>Attention:</b>	<b>David Little</b>
<b>File Number</b>	<b>S12L3-006</b>
<b>Type of Operation</b>	<b>CLASS B - MUNICIPAL</b>
<b>Location</b>	<b>Délı̨nę</b>

Dear David Little,

An inspection of The Charter Community of Délı̨nę's Water Licence #S12L3-006 was conducted on September 20<sup>th</sup>, 2017. Specifically, the Water Licence was inspected to ensure that the terms and conditions of the licence were met. Enclosed is a copy of the Inspection Report for your review and records.

A copy of this report will be sent to the Sahtu Land and Water Board for their review and public records. If you have any questions/concerns regarding the enclosed, please do not hesitate to contact me at (867) 587-7203.

Sincerely,

**Original Signed**

Alex Lynch  
Sahtu Regional Water Resource Officer  
Environment and Natural Resources



## WATER LICENCE INSPECTION REPORT

Cc: Jeff Walker – Superintendent, GNWT ENR Sahtu Region  
Sabrina Sturman – Regulatory Specialist, Sahtu Land and Water Board

Enclosure: Water Licence Inspection Report (5 pages)

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### WATER LICENCE INSPECTION REPORT

<b>LICENCE #:</b>	<b>S12L3-006</b>	<b>EXPIRY DATE:</b>	<b>December 04, 2017</b>
<b>LICENCEE:</b>	<b>Charter Community of Délı̨nę</b>	<b>PREVIOUS INSPECTION:</b>	<b>July 27, 2015</b>
<b>COMPANY REP:</b>	<b>David Little</b>	<b>INSPECTION DATE:</b>	<b>September 20, 2017</b>

#### GENERAL CONDITIONS/REPORTS/PLANS

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

C &R Plan	N/A	Records & Reporting	U	Final Report	N/A
Geotechnical Inspection	N/A	Posting, Signage	U	Contingency Plan	N/A
Restorations Activities	N/A	Spills	A	O&M Plan	N/A
Maintenance	N/A	Modifications	N/A	Annual Report	N/A

#### **General Condition Comments:**

On Thursday, September 20<sup>th</sup>, 2017, Water Resource Officer (Inspector) Alex Lynch inspected The Charter Community of Délı̨nę’s Water Licence #S12L3-006 (expiry December 4, 2017) and associated terms and conditions.

#### WATER SUPPLY

<b>Source:</b>	Great Bear Lake	<b>Quantity Used:</b>	N/A
<b>Owner/Operator:</b>	Charter Community of Délı̨nę	<b>Meter Reading:</b>	N/A

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

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

#### **Water Supply Comments:**

The water treatment facility was inspected and was found to be clean and well organized. All record keeping was up-to-date by the water treatment operator. There were no concerns noted with chemical storage, as the water treatment plant uses UV as their disinfectant method with no additional chemicals in their treatment process. The operator was keeping daily records of flow and basic water quality parameters. The flow meter being used was operational for tracking total water usage as per the licence. As per Part B, #5 of the Water Licence, the Licensee should have a sign to inform the public of the 'Water Supply Facility' on the outside of the water treatment plant.



## WATER LICENCE INSPECTION REPORT

### WASTE DISPOSAL - SEWAGE

Disposal Method		Sewage Lagoon					
Mechanical	N	Camp Sump	N	Natural Water Body	N	Wetland Treatment	N
Continuous Discharge	N	Intermittent Discharge	Y	Seasonal Discharge	N	Land Spread	N
Accelerated Biological	N	Other					

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

Discharge Quality	A	Decant Process & Structures	A	Discharge Measurement Device	A
Freeboard	A	Sludge Disposal Method	A		
Periods Of Discharge	N/A			SNP Samples Collected	N/A
Effluent Discharge Rates	N/A				

### **Sewage Comments:**

The old sewage lagoon was inspected and is no longer being used by the community (Figure #1). The old lagoon is in the process of being decommissioned, but remains in good condition with no slumping or erosion of the lagoon containment walls (Figure #1). There are two Surveillance Network Program (SNP) sampling locations at the old sewage lagoon that will need to be moved to the new sewage lagoon to reflect the requirement for SNP station #0555-2. The new SNP location should be located at the discharge point of the secondary sewage lagoon, as required by the water licence #S12L3-006, under the Surveillance Network Program, Station Number #0555-2. The exact location will be determined during a follow-up inspection (October 2017) by the GNWT Water Resource Officer in collaboration with Deline Got'ine Government. There are no concerns with the new sewage lagoon as it is structurally sound and well maintained (Figure #2).

### WASTE DISPOSAL - SOLID WASTE

Disposal Method		Open Dump					
Open Dump	Y	Landfill	N	Burn & Landfill	N	Underground	N
Offsite Removal	N	Other					
Owner / Operator	Charter Community of Délı̄nę						

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



## WATER LICENCE INSPECTION REPORT

Runoff Diversion	U	SNP Samples Collected	No SNP site at old landfill
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**Solid Waste Comments:**

The current landfill being used is well passed capacity and it's anticipated that the community will start to use their new landfill in spring/summer 2018. The new and old landfill should have designated locations to allow for the proper segregation of wastes (wood, household, metal, hazardous wastes, etc.). Hazardous wastes should also be stored in secondary containment and prepped on a regular basis to be shipped to a proper disposal facility (Figure #5). Furthermore, waste oil should be separated and stored in proper containers and staged to be disposed of properly. Household wastes should be buried and covered on a regular basis to reduce the amount of windblown waste leaving the site. The old landfill has a large amount of windswept waste at the household waste site and should be collected at least twice per year (Figure #4).

**SURVEILLANCE NETWORK PROGRAM**

Samples Collected Licencee	
Samples Collected ENR	<p>Department of Environment and Natural Resources (Water Resource Officer) will be returning to conduct SNP sampling training with the community's Water Treatment Operator (Clarence Tutcho) in October 2017. New/revised SNP locations (with GPS coordinates) will be determined at this time. The following amendments are recommended to the Surveillance Network Program:</p> <p>0555-2: A new SNP location will be established at the new sewage lagoon to reflect requirement of the Licence;</p> <p>0555-3: SNP location will be moved as the current location is difficult to access;</p> <p>0555-4: A new SNP location will be established at the new landfill to capture surface runoff from the site.</p>

**Surveillance Network Program Comments:**

Signage will be required to identify new SNP locations at the new landfill (SNP #0555-4) and new sewage lagoon (SNP #0555-2).

Appropriate signage should be installed at the water treatment facility to identify SNP 0555-1 as the sampling point for the raw water supply from Great Bear Lake at the pump house.

The current sign identifying SNP #0555-3 location should be moved to the new proposed site closer to the boat launch at Airplane Lake (exact location to be determined in October 2017).



## WATER LICENCE INSPECTION REPORT

### NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

Annual Reports are required March 31<sup>st</sup> of the year following the calendar year being reported. This is required as per Part B, #1 of the General Conditions section of the water licence. Annual Reports are missing from 2016 and were required as of March 31<sup>st</sup>, 2017. Please provide these reports to the Sahtu Land and Water Board as soon as possible. Please refer to Part B, General Conditions of the water licence to review the requirements of what should be included in the submission to the Sahtu Land and Water Board.

Inspector's Signature: \_\_\_\_\_ **Original Signed** \_\_\_\_\_

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## WATER LICENCE INSPECTION REPORT

### INSPECTION IMAGES

**Figure 1 – Old Sewage Lagoon**



**Figure 2 – New Sewage Lagoon**



**Figure 3 – Old Landfill Household Debris**



**Figure 4 – Windswept Debris at Old Landfill**



**Figure 5 – Old Landfill Hazardous Wastes**



**Figure 6 – Proposed location SNP 0555-4**





## WATER LICENCE INSPECTION REPORT

Figure 7 – Old Landfill Pooling Water

