

From: [Wendy Bidwell](#)
To: [Susan Christie](#)
Cc: [Clifford - Works Department](#); [Erica Janes](#); [Heather Scott](#); [Michael Kant](#); [Crystal Collins](#)
Subject: RE: Spring 2021 Water Licence Inspection Follow-up
Date: Tuesday, July 6, 2021 6:30:40 PM
Attachments: [210826 - 2122 - FINAL REPORT.PDF](#)
Importance: High

Hi Susan,

I have reviewed the results (see attached) from the June 11, 2021 samples collected at water licence SNP 1412-2-Site of Compliance and all results meet water licence criteria. **The Hamlet is approved to proceed with emergency decant operations at Cell #5 of the Sewage Disposal Facilities commencing on Tuesday July 6, 2021.**

When I was conducting the spring water license inspection on June 8, 2021, the lagoons had less than the licence minimum of freeboard then (1 metre) and I relayed to you that a request for decant should be made. I am approving this decant in order to avoid an uncontrolled spill, or overtopping of the lagoons, regardless of the pre-decant sample results, as I noted in an inspection follow-up email. I expect the Hamlet to stay on top of monitoring the sewage disposal facilities to ensure this emergency request does not happen again.

In addition, **please let me know when decant commences and ends. If decant is longer than a week, a weekly sample will be required for every week that the Hamlet decants as per the licence.** Clifford should request more sample bottles from the lab, if it is anticipated that decant will take longer than a week. Total effluent discharge volumes will need to be included in the annual water licence report, so it's important that this information is tracked and recorded as well.

If you have any questions regarding emergency decant operations, don't hesitate to contact me.

Please keep me posted.

Regards,

Wendy

Mársı | Kinanāskomitin | Thank you | Merci | Hą́ı' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi
Wendy Bidwell

Pronouns: she/her/hers

Senior Water Resource Officer

South Slave Region

Department of Environment and Natural Resources

Government of the Northwest Territories

Highway #5

PO Box 900

Fort Smith, NT X0E 0P0

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From: Susan Christie [mailto:sao@fortprovidence.ca]
Sent: Tuesday, July 06, 2021 11:52 AM
To: Wendy Bidwell
Cc: Clifford - Works Department
Subject: RE: Spring 2021 Water Licence Inspection Follow-up
Importance: High

EXTERNAL: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender's name and email address and know the content is safe.

Hi Wendy,

Just left you a voicemail message on your cell. We are waiting for approval to begin decanting.

We had sent in the samples and have received the lab results.

Clifford has been away a fair bit on medical, but is now back.

Can you please have someone give us the go ahead to start decanting (based on lab results).

Thanks,

Susan
Hamlet of Fort Providence

From: Wendy Bidwell <Wendy_Bidwell@gov.nt.ca>
Sent: June 9, 2021 9:09 PM
To: Susan Christie <sao@fortprovidence.ca>
Cc: Clifford - Works Department <works@fortprovidence.ca>; ejanas@mvlwb.com; Michael Kant <Michael_Kant@gov.nt.ca>; Crystal Collins <Crystal_Collins@gov.nt.ca>
Subject: Spring 2021 Water Licence Inspection Follow-up
Importance: High

Hi Susan,

Thanks for meeting with me yesterday. Further to our post-inspection follow-up call, I have summarized the operational water licence issues that need addressing below:

Water Treatment Plant

- I could not get a raw water sample at the plant. No flow through the sample hose. I left some extra sample bottles in the Plant for Clifford. They are sample bottles for SNP samples 1412-1 (Raw Water), 2016-2 (Leachate at Landfill) & 2016-3 (Ponded water at Large Construction Waste area). Clifford is welcome to use these.

Sewage Disposal Facility

- All five cells are full with less than 1m freeboard. **I recommend an emergency decant at Cell #5.** Please sample and set-up equipment for decant as soon as possible. In order to avoid overtopping of the facility berms, I'll authorize an emergency decant prior to receiving pre-decant sample results. **This is a priority item that requires immediate attention.**

Landfill

- There is copious windblown waste at site because the active domestic waste is full and has not been covered, or compacted in a while. **This issue must be addressed as soon as possible.** This is a serious wildlife attractant and is the main reason there have been so many habituated bears at site. As mentioned during our meeting, if you would like to close the cell and start a new one, please notify the Board and myself.
- As noted last year, the facility fencing has been compromised and is open at the southwest corner and along most of the west perimeter. Game trails were noted at all of these access points during the inspection. Bears have been entering through these areas and scavenging on the domestic waste. Lots of bear sign (scat and tracks) was observed on the berms around the active domestic waste cell. The fencing needs to be repaired and raised to a suitable height in order to keep wildlife from entering the facility. **This fencing issue must be addressed as soon as possible.**
- I noted a hydrocarbon spill from an old fuel drum in the Hazardous Waste area. This needs to be cleaned up and containerized. There was also an open fuel drum full of waste hydrocarbon oil in the Waste Oil area. This needs a proper top cover, or to be put in an appropriate container. All hydrocarbon odours are wildlife attractants, and these wastes (i.e. fuel, oil, lubes) must be appropriately stored to prevent odours. **This spill must be cleaned up and the waste oil must be appropriately stored, and shipped out for proper disposal.**
- The Oversized, Construction/Demolition Waste area is almost at capacity and has not been compacted, or covered in a few years. There is mixed waste in this area and no segregation. **This area must be compacted and covered as soon as possible.**
- I noticed ponded leachate from the domestic waste area flowing from inside the landfill to the roadside ditching outside of the main gate. I recommend Clifford sample this and based on results-potentially request a discharge.
- End-of-Life vehicles must all be located in one designated area. ~ 15 vehicles were noted at

various locations in the landfill. These vehicles will require decommissioning of hazardous wastes.

The issues above in **red** are a priority require immediate attention and action. If you have any questions regarding the above, please don't hesitate to contact me. I can also arrange a call with you and Clifford to discuss the above. Please let me know when you are both available.

Regards,

Wendy

Mársı | Kinanāskomitin | Thank you | Merci | Hǫı' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsı

Wendy Bidwell

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
210826

- FINAL REPORT -

Prepared For: Hamlet of Fort Providence

Address: General Delivery
Fort Providence, NT
X0E 0L0

Attn: Susan Christie

Facsimile: (867) 699-4624

Final report has been reviewed and approved by:

Glen Hudy
Quality Assurance Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
 - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - Environment Canada
 - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate: Friday, June 25, 2021

Print Date: *Friday, June 25, 2021*

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Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
210826

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **1412-2**

Taiga Sample ID: **001**

Client Project:

Sample Type: Water

Received Date: 11-Jun-21

Sampling Date: 11-Jun-21

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	28.4	0.005	mg/L	17-Jun-21	SM4500-NH3:G	
CBOD	16	2	mg/L	11-Jun-21	SM5210:B	
Phosphorous, Total	8.38	0.002	mg/L	15-Jun-21	SM4500-P:D	
<u>Inorganics - Physicals</u>						
pH	8.42		pH units	11-Jun-21	SM4500-H:B	
Solids, Total Suspended	88	3	mg/L	15-Jun-21	SM2540:D	
<u>Major Ions</u>						
Nitrate as Nitrogen	0.05	0.01	mg/L	11-Jun-21	SM4110:B	
Nitrite as Nitrogen	< 0.01	0.01	mg/L	11-Jun-21	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	13	1	CFU/100mL	11-Jun-21	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2.0	mg/L	16-Jun-21	EPA1664A	

ReportDate: Friday, June 25, 2021

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **1412-2**

Taiga Sample ID: **001**

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

ReportDate: Friday, June 25, 2021

Print Date: *Friday, June 25, 2021*

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