

From: Wendy Bidwell
To: sao@fortprovidence.ca; provwork@ssimicro.com
Cc: [Erica Janes](#)
Subject: Sewage Lagoon (Cell #5) Decant Operations and Licence SNP Sampling Requirements
Date: Tuesday, July 3, 2018 9:38:39 AM
Attachments: [Re Emailing 180382 - 1819 - FINAL REPORT.pdf 180382 - 1819 - FINAL REPORT.xls.msg](#)
[180382 - 1819 - FINAL REPORT.PDF](#)
Importance: High

Good morning,

Further to my phone conversation with Susan last week, from what I understand decant operations commenced on Friday (June 29). I have attached the pre-decant sample results and my email approving decant operations. I just wanted to provide a friendly reminder to ensure the Hamlet (Clifford or Dale) collects the required SNP samples during decant operations.

In addition to the pre-decant sample that Clifford collected, the licence requires that the Hamlet **must collect the same sample on a weekly basis while lagoon decant is occurring** (See Annex A: SNP Table-SNP 1412-2 pg. 20 of licence - [Fort Providence Licence](#) , or table below). So, if the Hamlet discharges for 3-4 weeks, Clifford will have to **send a sample to the lab every week until decant is completed**. I typically recommend taking the sample on the same day you did last time, that way you know the samples will make it to the lab on time.

SNP station	Location	Sampling Frequency	Sampling Parameters	Rationale
1412-2	Sewage effluent from the Sewage Disposal Facilities	Prior to discharge and weekly during discharge	pH, CBOD ₅ , Total Suspended Solids, Ammonia, Total Phosphorus, Nitrate, Nitrite, Faecal Coliforms, Oil and Grease	Site of compliance. To monitor final effluent quality prior to discharge to the Receiving Environment.

Clifford, if you or Susan are unclear on anything I have noted above, please let me know. Give me a call if you have any questions.

Regards,

Wendy

Mársi | Kinanaskomitin | Thank you | Merci | Hą́ı' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi

Wendy Bidwell

Water Resource Officer

South Slave Region

Department of Environment and Natural Resources

Government of the Northwest Territories

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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.:
180382

- 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:

Judy Mah
Client Service 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: Tuesday, June 26, 2018

Print Date: *Tuesday, June 26, 2018*

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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.:
180382

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **1412-2**

Taiga Sample ID: **001**

Client Project: MV2016L3-0001

Sample Type: Water

Received Date: 13-Jun-18

Sampling Date: 13-Jun-18

Sampling Time:

Location:

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	11.8	0.005	mg/L	20-Jun-18	SM4500-NH3:G	
CBOD	13	2	mg/L	13-Jun-18	SM5210:B	
Phosphorous, Total	6.21	0.002	mg/L	18-Jun-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
pH	8.48		pH units	13-Jun-18	SM4500-H:B	
Solids, Total Suspended	22	3	mg/L	18-Jun-18	SM2540:D	
<u>Major Ions</u>						
Nitrate as Nitrogen	0.61	0.01	mg/L	15-Jun-18	SM4110:B	
Nitrite as Nitrogen	0.96	0.01	mg/L	15-Jun-18	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	80	10	CFU/100mL	13-Jun-18	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2.0	mg/L	25-Jun-18	EPA1664A	

ReportDate: Tuesday, June 26, 2018

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180382

- 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: Tuesday, June 26, 2018

Print Date: *Tuesday, June 26, 2018*

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From: Wendy Bidwell
To: [Susan Christie: provwork@ssimicro.com](mailto:Susan_Christie:provwork@ssimicro.com)
Cc: [Erica Janes](mailto:Erica_Janes)
Subject: Re: Emailing: 180382 - 1819 - FINAL REPORT.pdf, 180382 - 1819 - FINAL REPORT.xls

Hi Susan et al,

I think these are the results for the lagoon pre-decant sample Clifford collected on the 13th. If so, they meet licence EQC and the Hamlet can proceed with decant of cell #5. This operation should commence soon as there was not acceptable freeboard in cell #5 at the time of inspection. We want a controlled release of the effluent above all. Please let me know the Hamlet intends to start decant operations.

Wendy Bidwell

Sent from my iPhone

> On Jun 26, 2018, at 4:35 PM, taiga <taiga@gov.nt.ca> wrote:

>

> Hello,

>

> Please see attached for final report 180362.

>

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> Have a good afternoon,

> Judy

>

>

>

> Mársi | Kinanaskomitin | Thank you | Merci | Hą́ı́' | Quana | Qujannamiik | Quyanainni | Máhsı́ | Máhsı́ | Mahsi

>

> Taiga Environmental Laboratory

> Environment and Natural Resources

> Government of the Northwest Territories

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