

Telephone: 867 – 678 – 6676

Fax: 867 – 678 – 6699

Aug 28, 2018

Hamlet of Tuktoyaktuk

P.O. Box 120

Tuktoyaktuk, NT X0E0T0

Attention: Davy Krengnektak, Municipal Works Manager

Re: Controlled Sewage Lagoon Decant Request

File number: NSL3 – 0714

Type of Operation Type B – Municipal

Dear Mr. Krengnektak,

It is understood that the Hamlet of Tuktoyaktuk wishes to decant at the Sewage Disposal Facility (Sewage Lagoon). The purpose of this decant is to lower water levels in the sewage lagoon to achieve and maintain the required freeboard limit as defined in Part D, item 4 Water License N5L3 – 0714. It is understood that this decant must occur to maintain the structural integrity of the sewage lagoon and to prevent an eventual uncontrolled discharger.

Further, the sewage lagoon was sampled on August 21, 2018 to provide for decant. The results were reviewed by Environment and Natural Resources Inuvik Region Office and it was found that the sewage analysis are all within Water License discharge criteria as defined in Part d, item 2.

Upon review of the preliminary results and the concern about the structural integrity of the sewage lagoon, it is decided to allow for the controlled decant to maintain the required freeboard and the ultimately prevent uncontrolled discharge, **the Hamlet of Tuktoyaktuk is authorized to discharge.**

This decision is based on the following:

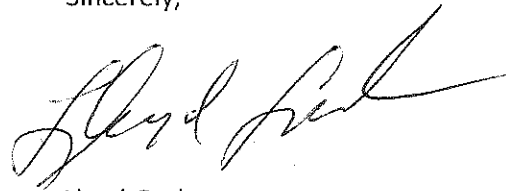
1. An adequate freeboard (less than 1 m) jeopardizes the structural integrity of the lagoon.

The discharge is subject to the following conditions:

1. Discharge as slow as possible and in a regulated manner. This will allow for high dilution as sewage water slowly moves through the system:
2. Only decant to the permitted freeboard of 1m (Part D, Item 4 in the Water License). This will ensure the structural integrity of the lagoon: and
3. The Hamlet must adhere to all other applicable conditions in the Water License.

If you have any questions or concerns regarding this enclosed, and/or if additional information is required please contact me at (867) 678 – 6676.

Sincerely,



Lloyd Gruben

Water Resource Officer

Environment and Natural Resources

Inuvik Region

CC: Norman Snowshoe – Superintendent, GNWT ENR Inuvik Region

Mardy Semmler – Executive Director, Inuvialuit Water Board

Bijaya Adhikari – Science and Regulatory Coordinator, Inuvialuit Water Board



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

Taiga Batch No.:
180785

- PRELIMINARY REPORT -

Prepared For: Hamlet of Tuktoyaktuk

Address: P.O. Box 120
Tuktoyaktuk, NT
X0E 1C0

Attn: Davy Krengnektak

Facsimile: (867) 977-2110

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:

Print Date: *Monday, August 27, 2018*

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Taiga Batch No.:
180785

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **Sewage Lagoon (SNP-0714-2)**

Taiga Sample ID: **001**

Client Project:

Sample Type: Water

Received Date: 21-Aug-18

Sampling Date: 21-Aug-18

Sampling Time: 8:15

Location:

Report Status: Preliminary

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen		0.005	mg/L		SM4500-NH3:G	
Biochemical Oxygen Demand		2	mg/L		SM5210:B	
<u>Inorganics - Physicals</u>						
pH	8.39		pH units	21-Aug-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	22-Aug-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	33000	1000	CFU/100mL	21-Aug-18	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	4.5	2.0	mg/L	23-Aug-18	EPA1664A	

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*** 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

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