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May 22, 2018

Hamlet of Ft. Macpherson

P.O. Box

Ft. Macpherson NT

XOE OJO

**Attention: Ernie Firth**

**RE: Controlled Sewage Lagoon Decant Request**

**File Number: Ft Macpherson Water License G03L3 – 001**

Dear Mr. Firth

It is understood that Hamlet of Ft Macpherson wishes to start the spring decant for their sewage lagoon( the lagoon). The purpose of this decant is to lower water levels in the Lagoon to achieve and maintain the required freeboard limit as defined in Part D, Section three(3)and six(6), and also section five(5) in the Water License G03L3 – 001(the license). It is understood that this decant must occur to maintain the structural integrity of the lagoon may be at risk and could lead to an eventual uncontrolled discharge.

Further, the Lagoon was sampled on May 14, 2018 to provide for a decant. When the results came back from the lab, the sewage analysis was all within the Water License discharge criteria.

Upon review of the preliminary results and the concern about the structural integrity of the Lagoon, it was decided to conduct the spring decant to maintain the required freeboard and ultimately prevent uncontrolled discharge. The Hamlet of Ft Macpherson is authorized to discharge. This decision is based on the following:

1. An adequate freeboard (less than 1 m) jeopardises 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, furthermore, do not fully open the sewage decant control structure during discharge
2. Only decant to the permitted freeboard of 1 m

If you have any questions or concerns, or if additional information is required, please do not hesitate to contact myself at (867) 678 6676

Regards,



Lloyd Grubbe

Water Resources Officer, Inuvik Region

Dept of ENR

P. O. Box 2749, Shell Lake

Inuvik NT X0E 0T0

Cc: by email  
Norman Snowshoe Superintendent, Dept of Environment and Natural Resources  
AlecSandra MacDonlad, Regulatory Specialist, GLWB