

Kyle Amsel
Water Resource Officer
Crown-Indigenous Relations and Northern Affairs
Kivalliq Regional Office
Ikingutigiit Center Suite 1, PO Box 129
Rankin Inlet, NU XOC 0G0

March 28, 2022

RE: 3AM-ARV1016 Arviat Sewage Lagoon Emergency Decant

Dear Kyle,

As per Part D, Item 4 of the Hamlet of Arviat Water Licence No. 3AM-ARV1016, this is notification of plans to discharge waste from the sewage lagoon. An emergency decant of the sewage lagoon is needed to maintain freeboard and protect berm stability.

The sewage lagoon in Arviat has filled to the top of the berm (see Figure 1). The sewage lagoon is designed with an exfiltration berm on the south side that releases effluent once the berm thaws over the course of the summer. To prevent catastrophic failing of the berm, an emergency decant to 1 m below the top of the berm (minimum freeboard as per Part D, Item 3 of the Licence) needs to occur. Samples will be taken during the decant for comparison to effluent criteria set out in Part D, Item 2 of Water Licence No. 3AM-ARV1016, and reported to Crown-Indigenous Relations and Northern Affairs (CIRNAC).

An emergency decant has taken place each spring since 2018. A 10-day notification has been submitted to CIRNAC in each instance and CIRNAC has given acknowledgement the same day and allowed the decant to proceed immediately rather than waiting 10-days, understanding the urgency (Appendix A).

The Government of Nunavut, Department of Community and Government Services (GN-CGS) has identified that the Municipality of Arviat sewage lagoon is undersized and the project to upgrade and expand the wastewater infrastructure has been approved by NIRB, is being reviewed as part of the ongoing 3AM-ARV1016 water licence renewal and amendment process, and is entering the design phase in spring 2022.

Your prompt response to this letter is appreciated. Thank you for your consideration. Please do not hesitate to contact me with any questions or concerns.

Regards,

Elan Chalmers Municipal Planning Officer Government of Nunavut Community and Government Services

Phone: 867-975-5461

Email: echalmers@gov.nu.ca



Figure 1 Current lagoon level

Appendix A

Lusty, Megan

From: Shouldice, Atuat (AADNC/AANDC) < atuat.shouldice@canada.ca>

Sent: April 19, 2018 3:07 PM

To: Collins, Sarah

Cc: Lusty, Megan; sao@arviat.ca; licensing@nwb-oen.ca; Allain, Erik (AADNC/AANDC)

Subject: RE: Premission Request - Emergency Decant of Arviat Sewage Lagoon

Hello Sarah

You have permission to decant the Arviat sewage lagoon 1 meter below top of berm.

Thank you

Atuat Shouldice Phone: 867-645-2840 Atuat.Shouldice@canada.ca

From: Collins, Sarah [mailto:SCollins@GOV.NU.CA]

Sent: Thursday, April 19, 2018 1:47 PM To: Shouldice, Atuat (AADNC/AANDC)

Cc: Lusty, Megan; sao@arviat.ca; licensing@nwb-oen.ca; Allain, Erik (AADNC/AANDC)

Subject: Premission Request - Emergency Decant of Arviat Sewage Lagoon

Hello Atuat,

Please find the attached letter requesting permission to do an emergency decant of the sewage lagoon in Arviat to 1 m below the top of berm.

Please contact me with any questions.

Thank you,

Sarah Collins Municipal Planning Engineer Community and Government Services Kivalliq Region, Government of Nunavut

Phone: 867-645-8176