

From: [Coleman Sadler](#)
To: [Joshua Gauthier](#)
Cc: [Kenneth Akerenwi Seh](#); [Aileen Stevens](#); [Candace Bryks](#); [Rebekka Lindskoog](#); [Daniel Leonard](#); [Don Plenderleith](#); [Patrick Cove](#); [Tyree Mullaney](#); [Wendy Bidwell](#)
Subject: Re: HREDP - Stockpile Area 1 Sump Water - Means of Disposal
Date: Wednesday, October 25, 2023 8:17:24 AM
Attachments: [image001.png](#)

Hello Joshua,

Yes, we were comparing the sump results to the “Process Effluent Discharged to Municipal Systems” you’ve linked here as a reference. The CCME Water Quality Guidelines for the Protection of Aquatic Life were included based on contract wording, but wouldn’t be considered applicable in this case based on intended means of discharge.

We collected an additional sump water sample on October 21 and will get the results this week. Will send you the results once received. As of yesterday, the sump had about 2” of surficial ice. Based on the geometry of the sump (i.e., shallow) it would be impractical to pump out this season. It seems the path forward will have to be leaving the sump in place and reassessing during/after freshet.

We will follow up with the project team with your input and come up with a path forward.

Thanks again,

On Tue, Oct 24, 2023 at 5:36 PM Joshua Gauthier <Joshua_Gauthier@gov.nt.ca> wrote:

Hi Coleman,

Thank for sending the weekly analytical results of the sump water within Stockpile Area 1. My apologies in the late response. The weekly analytical report showed several outlined exceedances in reference to the CCME Aquatic Water Quality Guidelines. When you are referencing the Municipal Effluent Criteria, are you referring to the standards for [Process Effluent Discharged to Municipal Systems](#)? My recommendation currently is to leave the water within the containment area until it meets criteria or dissipates further as outlined in prior monitoring [documents](#). The sump water is likely frozen at this point anyways and does not impede on equipment or access to my knowledge but please let me know if this is ultimately your direction you would like to take with pooled water in sump area #1 in the spring.

Do you know if there will be another weekly analysis report or was this the last one for the season? In terms of the erosion and sediment control plan, it states that passive dewatering at the temporary storage sites is the main method of removing water from containment areas. If this is not working and you would like to discharge, just summarize your plans to mitigate any erosion from occurring during the process (i.e. clean rock diffuser, low pressure hose system, etc.) and we can go from there.

If you have any questions or require further discussion, please reach out to me at your convenience.

Thank you,

Mársı | Kinanāskomitin | Thank you | Merci | Hai' | Quana | Qujannamiik | Quyanainni |
Máhsı | Máhsı | Mahsi

Joshua Gauthier

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From: Coleman Sadler <csadler@outcomeinc.ca>

Sent: Wednesday, October 18, 2023 3:08 PM

To: Joshua Gauthier <Joshua_Gauthier@gov.nt.ca>

Cc: Kenneth Akerenwi Seh <Kenneth_Akerenwi-Seh@gov.nt.ca>; Aileen Stevens <Aileen_Stevens@gov.nt.ca>; Candace Bryks <bryksc@ae.ca>; Rebekka Lindskoog <lindskoogr@ae.ca>; Daniel Leonard <dleonard@westmaradvisors.com>; Don Plenderleith <dplenderleith@outcomeinc.ca>; Patrick Cove <Pcove@rowes.ca>

Subject: HREDP - Stockpile Area 1 Sump Water - Means of Disposal

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Hello Joshua,

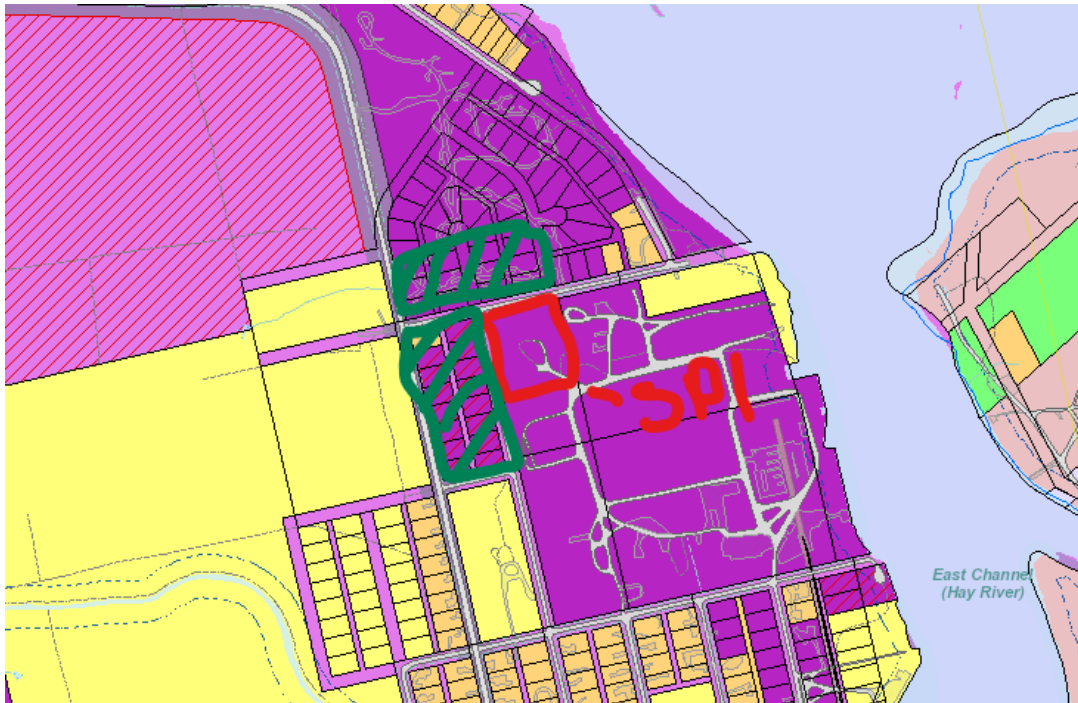
Please see attached for the latest analytical results from the sump at Stockpile Area 1. The sample had exceedances for a number of metals for CCME WQG FAL and had elevated turbidity levels compared with the GNWT Effluent Discharge Criteria. We're planning to take another sample this week to confirm the results.

A screenshot from the GNWT Atlas website has been attached for reference. The areas in purple represent GNWT properties, while yellow represents the Town of Hay River.

The project team has been discussing the means of disposal for the sump water and was hoping to discharge to the vegetated area immediately west of Stockpile Area 1. The Area north of Stockpile 1 is also being considered if the western area is unable to absorb the water.

We've added a comparison with the GNWT Effluent Discharge Criteria for sewage systems as reference. As the analytes are below GNWT Effluent Discharge Criteria (with the exception of TSS), do you see any concerns with discharging the water onto the aforementioned locations? Also what measures would you need implemented for this to take place?

The water license states we need approval from an Inspector before discharging any water related to this project therefore we'll need to find a mutually acceptable means of disposal.



Regards,

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