



Water Testing for 1BH-IBF----

Dave Baines <dave.baines@nwb-oen.ca>

Wed, May 9, 2018 at 1:05 PM

To: Jacob Saunders <jacob_saunders@inukshukconstruction.ca>

Cc: Licensing Department <licensing@nwb-oen.ca>, andrewmedeiros@trentu.ca

Jacob.

Based on Andrew's response, he was not intending that there be an 'approval' process involved in water release. Could you please clarify what you are looking for from an 'approval' process or provide a short discussion on what you would be looking for from the data and any potential mitigation you would implement if you identified anything in the data? Please feel free to discuss this with Andrew or Maurice from QEC prior to providing a formal response.

All the best.

Dave

Dave Baines MSc EP
Technical Advisor
Nunavut Water Board
867-360-6338 x29



Dave Baines- $C\Delta^e < \Delta^{a_4}$

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On Wed, May 9, 2018 at 11:56 AM, Andrew Medeiros <andrewmedeiros@trentu.ca> wrote:

Hi Dave,

I don't believe I worded this as 'approved' in my letter. I am unsure of what this means either, whom would approve? what basis would form this approval? I suggested that the data be made publically

available as these lakes are in a watershed that is continuously monitored and the data would provide a good baseline. This information could easily be put on the NIRB ftp site..

There may be some changes to the water quality through this process albeit minor in my view. I would be concerned if water with low DO was pumped into the lakes after use without a bubbling process to reintroduce oxygen (e.g., return the water through a hose on a stick to create a fountain if DO is low). At any rate, I would have expected that concerns over water quality would be identified by whomever is conducting the analysis, these are very basic parameters afterall. I don't have much concerns over it from my end, but there could be potentially some issues depending on duration of time in the tank and amount of organic material in the water at the time of extraction.

thanks,
Andrew

From: Dave Baines <dave.baines@nwb-oen.ca>

Sent: May 9, 2018 12:54:38 PM

To: Andrew Medeiros; Jacob Saunders

Cc: Licensing Department

Subject: Water Testing for 1BH-IBF----

Andrew,

My name is Dave Baines. I'm the Technical Advisor from the Nunavut Water Board (NWB) working on the application for Hydrostatic Testing at the Iqaluit Power Plant Bulk Fuel Storage Upgrade (our file # 1BH-IBF----). You provided guidance to the Nunavut Impact Review Board (NIRB) on the same project. Your letter dated March 7, 2018 indicates that you recommend:

"Water should be tested for conductivity, pH, total suspended solids (TSS), dissolved oxygen, total phosphorus, and total nitrogen prior to withdrawal, as well as subsequently prior to discharge. These data should be made available to the public following this exercise."

In their recent application to the NWB, Inukshuk Construction has proposed to do this testing. However, their wording is slightly different:

*"Prior to returning the water to the source lakes, the water shall be tested again, **and the results approved.**" (emphasis added)*

I'm unclear if your intent was for there to be a release criteria imposed on the water or if the testing was for evaluation purposes. Could you please provide me and Inukshuk clarification on how you envisioned the water quality data being used and what controls could or should be imposed through the licencing process?

To be honest, if this water has sat in the tank, some of the values will change, but there are few vectors to introduce significant change to these values. I don't see how a release criteria, or 'approving' the DO value (for example) would be helpful.

Thanks,

Dave

Dave Baines MSc EP
Technical Advisor
Nunavut Water Board
867-360-6338 x29



Dave Baines- $\mathbb{C}\Delta^e \leq \Delta^{a_1}$

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