



NWB Tools

Ida Porter <ida.porter@nwb-oen.ca>

Fwd: Meliadine - Update - Licence No. 2BB-MEL1424

Karén Kharatyan <karen.kharatyan@nwb-oen.ca>

Fri, May 27, 2016 at 9:53 AM

To: Ida Porter <ida.porter@nwb-oen.ca>

Ida, please save the communication under Waste disposal.



Karén Kharatyan, Ph. D- ԵՂԵՐԵՐԻՆԻ

Technical Advisor- Conseiller Technique

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NUNAVUT WATER BOARD - OFFICE DES EAUX DU NUNAVUT
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 Merci de penser à l'environnement avant d'imprimer ce courriel / Thank you for thinking of the environment before printing this email

----- Forwarded message -----

From: **Christine Wilson** <Christine.Wilson@aadnc-aadnc.gc.ca>

Date: Thu, Apr 14, 2016 at 6:04 AM

Subject: Re: Meliadine - Update - Licence No. 2BB-MEL1424

To: jamie.guesnel@agnicoeagle.com, karen.kharatyan@nwb-oen.ca

Cc: Christine Wilson <Christine.Wilson@aadnc-aadnc.gc.ca>, jeffrey.pratt@agnicoeagle.com, manon.turmel@agnicoeagle.com, dirlands@kivalliqinuit.ca

Jamie could you call me this morning?

8672226482

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Jamie Quesnel

Sent: Thursday, April 14, 2016 6:45 AM

To: karen.kharatyan@nwb-oen.ca

Cc: Christine Wilson; Jeffrey Pratt; Manon Turmel; dirlands@kivalliginuit.ca

Subject: RE: Meliadine - Update - Licence No. 2BB-MEL1424

OK. I will be In Rankin then and possibly we can have the call from Christines office?

Also, could you advise me the requirements/process for an emergency release of water to protect the integrity of these structures?

Thanks, Jamie

From: Karén Kharatyan [mailto:karen.kharatyan@nwb-oen.ca]
Sent: Wednesday, April 13, 2016 12:50 PM
To: Jamie Quesnel
Cc: Christine Wilson; Jeffrey Pratt; Manon Turmel; dirlands@kivalliqinuit.ca
Subject: Re: Meliadine - Update - Licence No. 2BB-MEL1424

A conference call would be possible yes, and April 25 the will be ok for me.

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On Wed, Apr 13, 2016 at 5:05 AM, Jamie Quesnel <jamie.quesnel@agnicoeagle.com> wrote:

Good day:

Thanks for your email and the additional information.

I think it would be best if we have a conference call or have a meeting to discuss this further. I will be back in Rankin on April 25th and we could schedule a meeting at that time or sometime next week.

Regards, Jamie

From: Karén Kharatyan [mailto:karen.kharatyan@nwb-oen.ca]
Sent: Tuesday, April 12, 2016 11:44 AM
To: Jamie Quesnel
Cc: Christine Wilson; Jeffrey Pratt; Manon Turmel; dirlands@kivalliqinuit.ca
Subject: Re: Meliadine - Update - Licence No. 2BB-MEL1424

Good morning Jamie,

Thank you for the provided information. Based on the provided information AEM plans to use these ponds to accommodate the spring freshet. When reviewing the provided information the following question is raising: are these ponds to accommodate only the surface drainage or also to contain effluent from portal sump?

I would like to bring to your attention that Part D Item 21 of Licence 2BB-MEL0914 requested:

The Licensee shall submit to the Board for approval, at least sixty (60) days prior to the discharge of Effluent from the primary containment area and/or portal sump, proposed Effluent quality discharge criteria taking into consideration the comments made by Environment Canada during the review of the Amendment application to expand underground bulk sampling.

This condition wasn't included within the renewal licence, the renewal application scope didn't include any potential discharge of effluent from primary containment area and portal sump.

The Board notes that in its submission to the Board on October 20, 2010, the ECCC stated that *it would be more appropriate to use the CCME protocol to develop site-specific guidelines* regarding the discharge from primary containment area and portal sump.

In its submission to the Board of April 4, 2011, The Licensee stated that

The available water quality data is again insufficient to derive site-adapted water quality objectives Once sufficient data has been collected, AEM will be in better position to propose a site-adapted water quality objective for As using the methods suggested by Environment Canada. But before calculating the objective, AEM would want to discuss with Environment Canada on how these objectives would be used.

The Board is unaware of results and outcome of discussion between ECCC and Licensee.

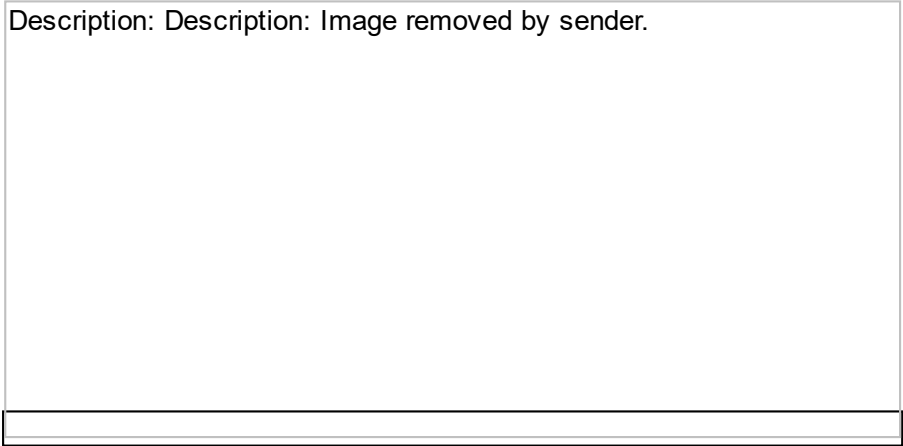
The Board is of opinion that if the purpose of these ponds is to also contain the effluent from portal sump, these additional facilities shall be considered as waste disposal facilities and at a minimum a modification request shall be submitted to the Board. And if a discharge of effluent is also intended from these "waste disposal facilities", the request shall be for an Amendment to the licence and shall also include criteria to be applied to the discharge of effluent. Proposed criteria shall take into account ECCC previous recommendations or discussions between the Licensee and ECCC.

If these containment facilities are only for the accommodation of surface discharge as advised in your email, it should still be noted that under S. 86 of Nunavut Waters and Nunavut Surface Right Tribunal Act the Inspector is powered to *examine any works, waters or waste, open any container that the inspector believes, on reasonable grounds, contains any waters or waste, and take samples*

of any such waters or waste, and much more.

I hope this makes sense,

Description: Description: Image removed by sender.



On Mon, Apr 11, 2016 at 6:57 PM, Jamie Quesnel <jamie.quesnel@agnicoeagle.com> wrote:

Hello Mr. Kharatyan:

This update is a follow-up to our letter of March 8th 2016.

We would like to advise NWB, as per Section Part E: Item 7 and 12 of the NWB Licence No. 2BB-MEL1424 we have initiated the corrective actions as listed below.

Part E of the Licence

PART E: CONDITIONS FOR CAMPS, ACCESS INFRASTRUCTURES AND OPERATIONS

7. The Licensee shall conduct all activities in such a way as to minimize impacts on surface drainage and the Licensee shall immediately undertake corrective measures in the event of any impacts on surface drainage.

12. The Licensee shall undertake appropriate corrective measures to mitigate impacts on surface drainage resulting from the Licensee's operations.

Corrective and Sustainable Actions

Agnico has initiated a series of corrective and sustainable actions. These actions include:

1. The immediate focus is to increase the storage capacity in containment pond P1 to accommodate the 2016 spring freshet and to limit to the greatest extent practical any seepage from containment pond P1 into Lake A54;
2. Completed an engineering review to find alternatives to construct a larger and tighter containment facility on surface at containment pond P1;
3. Increased frequency and more intensive sampling of the underground sources to allow for a better understanding of where the increased chloride and ammonia is coming from;
4. A review of explosives use practices in the underground to tighten up any wastage;
5. Engineering review to assess if the surface sump at the top of the exploration decline should be backfilled

and to re-route all water pumped from sump 1 located just inside the portal directly into containment pond 1;

6. A review of current practices to improve the management on surface of calcium chloride storage and the management of potentially contaminated snow; and,
7. Reviewing treatment options including use of evaporators.

Based on our previous communication, in order to obtain the required minimal capacity of 32,400 m³, the following items have been initiated:

1. Retained Tetra Tech to complete the design of the dykes plus field supervision
2. Retained a local contractor that abides with the IIBA.
3. The primary design will be a frozen core structure.
4. Pond 1 will be divided in two ponds (a new Pond 1 and a small Pond 2) and by adding Pond 3.
 - Pond 1 would be located at the northern area of the existing containment.
 - Pond 2 would be located at the southern area of the existing containment.
 - Pond 3 would be constructed downstream of the existing south road and would serve multi-purposes. It would serve firstly to collect any seepage that could come from pond 2 confining structure and its abutments. A pumping station would be installed to collect and pump any water to Pond 1.

I have attached two drawings for you review. The first drawing summarizes the location of the dykes (plan view) and the second drawing, highlights a typical cross-section of the dykes.

Please contact the undersigned if you have any questions.

Regards, Jamie

Jamie Quesnel
Environment Superintendent-NU

jamie.quesnel@agnicoeagle.com

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