



Phyllis Beaulieu <phyllis.beaulieu@nwb-oen.ca>

[Licensing] Re: 3BM-CHE1013

1 message

Brady MacCarl <brady.maccarl@nwb-oen.ca>
To: Licensing Department <licensing@nwb-oen.ca>

Fri, Apr 24, 2015 at 4:46 PM

Robin,

Please file these responses and attachments to the Renewal Application Folder for 3BM-CHE1013.

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

From: **Lusty, Megan** <MLusty@gov.nu.ca>
Date: Fri, Apr 24, 2015 at 4:01 PM
Subject: RE: 3BM-CHE1013
To: Brady MacCarl <brady.maccarl@nwb-oen.ca>

Hi Brady,

Please see my response to your questions below in red.

As discussed earlier this week, the Hamlet uses the discharge chute at Detention Cell #1 and it is from Detention Cell #1's effluent that CHE-3 is sampled (for quality). Both Detention Cell #1 and #2 are adjacent to Pond #1. Detention Cell #2 is not used because the discharge chute faces into the prevailing winds, making it difficult to offload the sewage without it spraying back. However, this discharge location should not be removed from the licence in case it is needed during abnormal circumstances, such as extreme snow drifting at Detention Cell #1. The discharge at Detention Cell #2 will be checked weekly during the sampling season and will be sampled in addition to the effluent from Detention Cell #1 when this cell has been used and water is present.

If you have any other questions/concerns regarding this Licence, please let me know.

Did you receive any submission from external parties that require a response?

Thanks,

Megan

Megan Lusty, EIT

Municipal Planning Engineer-In-Training
Community and Government Services
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From: Brady MacCarl [<mailto:brady.maccarl@nwb-oen.ca>]
Sent: April-10-15 12:02 PM
To: Lusty, Megan
Subject: 3BM-CHE1013

Hi Megan,

As you are likely aware the Technical Review period concludes for 3BM-CHE1013 on Monday. As I will be away on duty travel next week, I wanted to touch base on the Application before I left. I would be grateful if you could elaborate on the following issues:

1. Licence 3BM-CHE1013, and the O&M Plan, both reference a decommissioned solid waste site next to the wetland area (not to be confused with the decommissioned sewage lagoon referenced in the last licence, which you have indicated never existed), and the previous licence expresses concern over potential leachate to the Wetland. What is the status of the decommissioned landfill? Was a decommissioning report completed? Is it adjacent to the current solid waste disposal area, or rather, would potentially leachate be recognized in the results of Monitoring Station CHE-2?

The Old Solid Waste Site was used as a combined site for honey bags, sewage and solid waste. Sewage continued to be discharged at this location, up to and including the present with the addition of Detention Cells and diversion berms in the wetlands area, however the disposal of solid waste was moved down the road to the current Solid Waste Site in the early 90s. I have not found any record of a decommissioning report for the Old Solid Waste Site. Because the Old Solid Waste Site is within the wetlands area, any leachate from the Old Solid Waste Site would be recognized at Monitoring Station CHE-2, as well as CHE-4 prior to discharge to Finger Bay.

2. Regarding Hazardous Waste, the O&M Manual refers to two fuel drum storage areas, one which is unlined and one which is lined. It recommends that the drums from the unlined location be removed to an approved disposal facility, and that the lined area should become the Hamlet's Hazardous Waste Area (with proper fencing and signage). The 2011 Inspection states that drums are stored in an unlined containment area. The Executive Summary submitted with the application, and the 2014 AANDC Inspection Report indicates the community uses seacans for some of its hazardous waste. The 2014 Inspection Report indicates that the solid waste area has two areas with secondary containment (I assume these are the two fuel drum storage areas?), however, the majority of drums are stored outside of the secondary containment.

Does the Hamlet have a designated Hazardous Waste Storage Area? Is it lined and properly accommodated (fencing and signs)? Have the drums referred to in the O&M Plan be removed?

There are two seacans within the Solid Waste Site that are used for household hazardous waste (ie. batteries, paint, etc.). The only area with secondary containment within the Solid Waste Site are the two cells of the landfarm licenced under 1BR-CIL1217. The Hamlet does not put hazardous waste in the landfarm.

The drum storage areas are outside of the Solid Waste Site fence. No drums have been removed to an approved disposal facility and this area does not have fencing or signage. As outlined in the O&M Manual and the 2014 AANDC Inspection Report, one of the storage areas has a geomembrane.

3. What is the state of fencing at the Solid Waste Site? The Compliance Plan states that fencing will be installed at the Solid Waste Site, whereas the O&M Manual and a number of the AANDC Inspections indicate that there is fencing at the Solid Waste Site. Are new sections to be installed, or repairs to damaged sections?

There is fencing at the Solid Waste Site. The fencing referenced to be installed in the Compliance Plan are in areas where the fencing was damaged and needs to be replaced or repaired

4. For consistency, what is the correct name for your water source, First Lake, or Puiqsuk Lake? The term changes in between documents.

Both names are correct for the drinking water source, however it can be referred to as First Lake for the sake of consistency. Future revisions of the O&M Manual will reflect this.

5. Both the "Community Background" document submitted with the Application, and the O&M Manual refer to upgrades to the Water Supply Facility in 2010. Specifically, the O&M Manual States"

The GN-CGS is planning to complete upgrades to the pumphouse and truck fill system at Chesterfield Inlet in the summer of 2010. These upgrades include a new reservoir intake pump, a second pumphouse building housing a new filtration and chlorination system, and a new truck fill line. As part of this upgrade project, a new O&M Manual specific to the new pumphouse and systems will be completed. For operations and maintenance procedures for the new pumphouse systems, please refer to the O&M manual developed by Nuna Burnside Engineering and Environment Limited (2010). However until this new pumphouse O&M manual is available, the 1991 O&M manual for the pumphouse and truck fill should be referred to (UMA 1991).

The NWB does not have any record of design drawings, as-built drawings or a construction report having been submitted for the new pump house. Also, the NWB does not appear to have received the O&M Manual developed by Nuna Burnside. Do you have any record of this Plan been submitted and approved by the Board?

If not, and considering the Technical Review period will be concluding soon for the file, we may have to explore other options moving forward with the O&M Manual.

I have not been able to find any documentation related to notifying the NWB of the new pumphouse construction. I have attached the As-Built drawings for this project. Please note that the drawings contain a "Future Expansion" section for a filtration system. This has not been constructed. As with other past projects, the As-Built drawings are not signed/stamped. Signed and stamped as-built drawings will be submitted to the NWB for all future construction related to the Water System, Sewage Disposal System, or Solid Waste Site. The new pumphouse replaced the old pumphouse and did not change the water intake from First Lake since it is located at the reservoir.

The O&M Manual submitted by Nunami Stantec references the new pumphouse O&M Manual to be developed by Nuna Burnside (the consultant on the new pumphouse project) – this is the technical document that is kept on site at the pumphouse which includes the specifications for every component of the new pumphouse (ie. valves, pumps, etc.). This document is different and separate from the Water Licence O&M Manual.

Because the new pumphouse was a replacement building and did not change the process of drawing water from the reservoir, chlorinating, and truck fill, the details for the water system in the O&M Manual are still applicable. The updated O&M Manual to be submitted later this year will add relevant information of the new pumphouse. As previously discussed, the O&M Manuals and Plans will be submitted as separate documents when updated.

Are you available early this afternoon for a quick phone conversation, possibly around 1 pm? I hope to start drafting the Licence during any spare time next week and it would help if I knew where the Hamlet was at with the Water Supply O&M Plan.

Lastly, there is still a chance that some additional issues will be raised as comments come in from external parties on Monday, however, with the high volume of applications coming in recently, I wanted to touch base before I left for duty travel any additional material began to pile up.

Regards,



Brady MacCarl, MSc- ᐅᑦᐱᐅᐅ ᐱᑦᑲᑦᑕ

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4 attachments

- 1472-EL-100 Chesterfield Inlet - Controls - Rev-02.pdf**
1162K
- 1472-EL-101 Chesterfield Inlet - Domestic Booster Controls - Rev-02.pdf**
180K
- 1472-EL-102 Chesterfield Inlet - Fan Controls - Rev-02.pdf**
345K
- 1472-PI-101 Chesterfield Inlet - P&ID - REV-06.pdf**
546K