



NWB Tools

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

[Licensing] FW: 3BM-IGL1520

Cynthia Ene <cynthia.ene@nwb-oen.ca>

Mon, Dec 14, 2015 at 7:43 AM

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

Hello, can you please place the below email on the ftp site, **application folder** for **2015 Amendment** for 3BM-IGL1520. Please pdf the below email and name it as:

150805 3BM-IGL1520 Email Correspondence for Amendment Application -

Thanks,

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

From: **Roy, Bhabesh** <BRoy@gov.nu.ca>

Date: Sat, Aug 8, 2015 at 12:45 PM

Subject: FW: FW: 3BM-IGL1520

To: "cynthia.ene@nwb-oen.ca" <cynthia.ene@nwb-oen.ca>, "licensing@nwb-oen.ca" <licensing@nwb-oen.ca>

Cc: "Ruediger, Ralph" <RRuediger@gov.nu.ca>, "Roy, Bhabesh" <BRoy@gov.nu.ca>

Cynthia

Please see below my responses in **green**:

I am here today with AANDC inspector Justin Hack and I explained him about this project.

Please contact me if you have any more question and confirm once you receive the O&M document of the WTFS.

Thanks.

Bhabesh

From: Cynthia Ene [cynthia.ene@nwb-oen.ca]

Sent: August 5, 2015 2:15 PM

To: Roy, Bhabesh

Subject: Re: FW: 3BM-IGL1520

Bhabesh, both AANDC and now the NWB has expressed that the current O&M used by the existing

facility is inadequate and needs to be reivesed, in the least for the safe day to day operation of the facilities. I understand that new facilities are going to be constructed, however in the mean time the current/existing facilities need to have appropriate O&M and Spill Contingency plans in place. The email I sent details the required revisions, the updates were required by June 2015.

For the O&M specifically

Updates to the Water Storage and Distribution Facility Operation and Maintenance (O&M) Plan; Amendments required include:

- i. An improved description of the technology and process;

No improvement yet. Still using the existing facility following the existing O&M manual.

- i. A detailed breakdown of maintenance work and schedule of work required for the system equipment (including the submersible pumps, intake screens, and valves);

Nothingh will be changed or replaced right now because the new facility is expected to tender this year for construction.

- i. Revisions to the faded Intake Screen and Reservoir Fill Line Drawings (Drawing No. 78-IB7-101 to 106);

About 2km feed line with intake screen is fine and working good. No drawings is existing. Under the forth coming capital project, this will be optimized and drawings will be prepared.

and

- i. Submitted O &M details 1979 Service Contracts for the operating pumps, if these Service Contracts are still required please renew and update the submitted information.

No, it is no more an requirement. A consultant is being recruited to conduct a bathymetric surveys of this water storage reservoir to calculate existing volume, capacity and seepage quantity.

Please call me or email if my email is not clear,

thanks,

On Thu, Jul 30, 2015 at 12:42 PM, Roy, Bhabesh <BRoy@gov.nu.ca> wrote:

Cynthia,

Please see my reply in **green**. I am available to discuss at any time.

Thanks.

Bhabesh

From: Cynthia Ene [cynthia.ene@nwb-oen.ca]

Sent: July 20, 2015 5:46 PM

To: Roy, Bhabesh
Cc: Licensing Department
Subject: 3BM-IGL1520

Good Afternoon Bhabesh,

Thank you for the email, as a follow-up to my previous email sent to you on June 30th. Attached are the 2 files from DFO and AANDC. For your convince, listed below is a summary of the questions and submissions required for the Igloolik amendment application.

Can you please provide a response to the following:

Taking into account the review of the application and comments received for the renewal application earlier this year, 90 days from licence issuance (i.e by 15th of June 2015) in accordance with Part F, Item 1 of the Licence, the following submissions are outstanding:

- a. Updates to the Water Storage and Distribution Facility Operation and Maintenance (O&M) Plan; Amendments required include:
 - i. An improved description of the technology and process;
 - ii. A detailed breakdown of maintenance work and schedule of work required for the system equipment (including the submersible pumps, intake screens, and valves);
 - iii. Revisions to the faded Intake Screen and Reservoir Fill Line Drawings (Drawing No. 78-IB7-101 to 106); and
 - iv. Submitted O & M details 1979 Service Contracts for the operating pumps, if these Service Contracts are still required please renew and update the submitted information.

Answer: No revision was made because the facility remains same. O&M manual remains same as well. Whereas the design of the new Water Truckfill station is ready to build. Optimize the 2km long intake pipe line is also part of the upgrade.

Therefore current system has been working as it was prior to renewal of the licence.

- b. Sewage Disposal Facility Operation and Maintenance (O&M) Plan (including the Sewage Sludge Management Plan);

Answer: A O&M manual was submitted as the requirement to renew the licence. The structure remains same without changing the O&M manual.

- b. Solid Waste Disposal Facility Operation and Maintenance (O&M) Plan; and
- c. Spill Contingency Plan;

Answer: A O&M manual along with Spill contingency Plan was submitted as the part to renew the water licence. Nothing was changed afterwards.

- 1. Within 90 days of licence issuance, i.e by 15th of June 2015: A Quality Assurance/Quality Control Plan that conforms to the guidance document Quality Assurance (QA) and Quality Control (QC) Guidelines For Use by Class "B" Licensees in Collecting Representative *Water Samples in the Field and for Submission of a QAQC Plan* INAC (1996). The Plan shall be acceptable to an accredited laboratory and include a covering letter from the accredited laboratory confirming acceptance of the Plan for analyses to be performed under the Licence.

Answer: QA/QC plan will be part of the O&M manual of the New structure once built and commissioned. The existing facility is not engineered and no record document, as built or QA/QC exists.

1. Hamlet of Igloolik amendment application states that some pipes will be installed and in order to install them, the contractor will have to do some dewatering. Are there any fish in the dewatering area and what will occur mitigation measures will be put in place to avoid any impact to fish and fish habitat if there are fish present?

Answer: This is a surface runoff. We do not have any record for fish habitation.

1. Section 23 of the submitted Water Licence Amendment Application Form and Section 3.3 of the Design Brief make reference to a geotechnical investigation report that was prepared by Exp Services Inc in 2010 and included in the application. However, a copy of this report cannot be found.

Answer: exp was asked to explore this report and send to us ASAP.

1. Section 4.4 of the Design Brief describes the need for the new and rehabilitated lagoons to be designed in a way that will allow for the storage of sludge (settled solids) to ensure that this sludge will not be released to the environment during decanting operations. The document recommends that these lagoons allow 0.5 m of depth for sludge storage. The storage requirements provided in Sections 4.1 and 5 of the Design Brief do not include dedicated volumes for sludge storage within the lagoons (i.e., 124,220 m³ of total storage: 111,570 m³ for effluent storage and 12,650 m³ for precipitation and evaporation). The Hamlet should confirm whether the storage of sludge has been considered in the design of the new and rehabilitated sewage lagoons
- 2.

Answer: The sludge will be remained at the bed of the new and rehabilitated lagoons until the last day of the life time of these facilities. But sludge will be removed from the bed of the existing lagoon cells to the 1st unused cell prior to starting any rehabilitation works. In fact, there are four existing cells. The first cell will accommodate sludge removed from other three cells and used for sludge storage purposes.

1. Section 23 of the submitted Water Licence Amendment Application Form and Section 3.3 of the Design Brief make reference to a geotechnical investigation report that was prepared by Exp Services Inc in 2010 and included in the application. However, a copy of this report cannot be found on the NWB public registry.

Answer: Exp was asked to submit us this report ASAP for NWB.

1. The Hamlet should confirm whether it will rehabilitate an existing sewage lagoon cell to manage sludge during the rehabilitation of the existing lagoons and throughout the operation of an expanded and rehabilitated sewage treatment system. Please provide the following when available in order to obtain NWB approval before depositing sludge into a dedicated lagoon cell:
 - Design drawings of the sludge management lagoon; Please see the site plan showing the 1st cell which will be sludge management plan.
 - A summary of how the sludge management lagoon will be rehabilitated (e.g., re-enforced berms, lining, etc.); not rehabilitated. Just spread sludge at the bed and build up.
 - How effluent that accumulates within the sludge management lagoon will be managed; The sludge will be dry condition during deposited into the sludge management cell. The effluent will be pumped out into the next rehabilitated sewage lagoon cell.
 - Drawings that reference the sludge management cell relative to the planned new sewage lagoon and rehabilitated sewage lagoons; Please see the site plan.
 - The testing that will be applied to sewage sludge and criteria for landfill disposal; No testing is done. No plan to remove sludge elsewhere.
 - How sludge will be disposed in the landfill: No plan for that because sewage sludge might not be environmentally friendly.

Please do not hesitate to call or email if you have any further questions or comments.

Sincerely,