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Licence No. 3BM-ARC0810

1 message

Sean Joseph <sean.joseph@nwb-oen.ca>

Tue, Feb 18, 2014 at 10:52 AM

To: broy@gov.nu.ca

Cc: Phyllis Beaulieu <phyllis.beaulieu@nwb-oen.ca>, sao_ab@qiniq.com

Hi Bhabesh:

As mentioned in our telephone conversation, the Nunavut Water Board (NWB or Board) received, during the period 2010 – 2013, several submissions in support of the renewal application for the Hamlet of Arctic Bay (Hamlet) water licence and/or as requirements under water licence 3BM-ARC0810.

However, because of the time that has elapsed since the submissions were received, the information contained in some of the documents is no longer current. In addition, some of the documents included in the submissions are not directly related to the Hamlet renewal application.

To ensure that interested parties are able to readily access the most current information and/or information that is relevant to the licence renewal, the NWB requests that the proponent address the following items and/or provide confirmation where appropriate that the specific requirements have been addressed:

A: Application Documents to should be Revised and Resubmitted

1. Water Licence Application Form

The information under the following sections of the water licence application form should be revised: description of the undertaking (Block 4), studies undertaken to date (Block 13), proposed time schedule (Block 15) as well as any other relevant information.

2. Application Cover Letter

A new application cover letter should be provided that reflects the current scope of undertakings and activities associated with the Hamlet's renewal application. In addition **all of the documents** that the Hamlet wants the NWB **to consider as part of the application** should be explicitly stated in this letter.

3. QA/QC of Wastewater Quality Monitoring of the Hamlet of Arctic Bay, Baffin Region, Nunavut

An updated version of this document should be submitted in accordance with the terms and conditions in the licence.

4. QA/QC of Water Supply to the Hamlet of Arctic Bay

An updated version of this document should be submitted in accordance with the terms and conditions in the licence.

5. Spill contingency Plan Draft 2010

An updated version of this document should be submitted in accordance with the terms and conditions in the licence.

6. Technical Report of the Environmental facilities in Arctic Bay – English and Inuktitut

Updated version of this document should be submitted in accordance current scope of activities and undertakings associated with the Hamlet of Arctic Bay Water Licence.

7. Arctic Bay Waste Water Facility Arctic Bay, Nunavut, Operations and Maintenance Manual Volumes. 1 and 2

There are several copies of Operations and Maintenance (O&M) Manuals that are on file for this licence. Confirmation should be provided as to which O & M Manual that should be considered for review under the licence renewal application in the context of the licence requirements and the NWB's August 10, 2012 correspondence to GN-CGS and the Hamlet of Arctic Bay.

8. A copy of the most recent compliance plan developed for the Hamlet of Arctic Bay Water Licence.

B: Requirements Pertaining the Licence 3BM-ARC0810/Amendment No.1

1. Monitoring Results for 2012 and 2013 reporting periods as required under Part B, 1(iv) – The Annual Reports for both reporting periods included embedded PDF files believed to contain the monitoring results for the reporting periods in question; however, these files appear to be corrupted.

2. Part D, Item 10

The Licensee shall submit to the Board for review within thirty (30) days of the issuance of this Licence amendment, a report identifying each Final Discharge Point of the existing Sewage Disposal Facility. The report shall at least include:

- a. Plans, specifications, geographic coordinates and a general description of each Final Discharge Point; and
- b. A description of how each Final Discharge Point is designed and maintained.

3. Part E, Item 10

The Licensee shall submit to the Board for approval in writing, prior to commencing construction or procurement of construction materials from the quarry, a Spill Contingency Plan that specifically addresses the quarry site operations and existing facilities. This Plan is to be incorporated into the Operations and Maintenance Manual referred to in Part F Item 1.

4. Part E, Item 11

Licensee shall, within sixty (60) days of completion of Construction of the Wastewater Treatment Facility, submit to the Board a Construction Summary Report along with stamped as-built plans and record drawings, providing explanation to reflect the deviations from construction drawings taking into account construction and field decisions and how they may affect the performance of the engineered facility. This Report is to include information on the following:

- i. The as-built drawings must identify the areas where field changes were made from the original design drawings, preferably in the form of a revision bubble and a brief note in the revisions section of the title block;
- ii. Details of the fill materials specifications for dike and key trench construction;

- iii. The final location for the lined key trench and reasons for selecting the final location;
- iv. Confirmation regarding the requirement for a spillway including a rationale;
- v. Details regarding the installation of impermeable liners including the type of liner, how the liners were incorporated into the cell to prevent seepage, and a discussion of the quality assurance/quality control measures applied during installation.

5. Part F, Item 1

The Licensee shall submit to the Board for approval in writing, within sixty (60) days of issuance of this Licence Amendment, an Operations and Maintenance Manual prepared where appropriate, in accordance with the Guidelines for the Preparation of an Operation and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories; 1996.

This Manual shall take into considerations comments received during the application review process as well as any Inspector reports, and shall contain the following plans:

- a. Water Supply Facilities Operation and Maintenance Plan;
- b. Solid Waste Operation and Maintenance Plan;
- c. Sewage Operation and Maintenance Plan for the existing Sewage Disposal Facility and the new Wastewater Treatment Facility;
- d. Sewage Sludge Management Plan;
- e. Hazardous Waste Management Plan;
- f. Spill Contingency Plan including a Spill Response Plan for Aggregate deposits;
- g. Monitoring Program Quality Assurance/Quality Control Plan including a diagram that references Monitoring Program Station Numbers; and
- h. Instrumentation Monitoring and Surveillance Plan (This Plan is due within 30 days of issuance of this Licence Amendment. See Part H Item 16)

6. Part F, Item 3

An inspection of all engineered facilities related to the management of water and waste shall be carried out annually in July or August by a Geotechnical Engineer. The inspection shall be conducted in accordance with the Canadian Dam Safety Guidelines where applicable and shall include the decommissioned Sewage Disposal Facility. The engineer's report shall be submitted to the Board within sixty (60) days of the inspection, including a covering letter from the Licensee outlining an implementation plan addressing each of the Engineer's recommendations.

7. Part G, Item 5

The Licensee shall, within sixty (60) days of completion of decommissioning of the existing Sewage Disposal Facility, submit to the Board a Decommissioning Summary Report. This Report shall include stamped as-built plans and record drawings, providing explanation to reflect any deviations from original plans.

8. Part H, Item 13

The Licensee shall submit to the Board upon approval by an Analyst, for inclusion in the Operations and Maintenance Manual, required under Part F Item 1(g), a Quality Assurance/ Quality Control Plan. The Plan shall include up to date sampling methods to all applicable standards, acceptable to an accredited laboratory as required by Part H Item 8 and Part H Item 9. The Plan shall include a covering letter from the accredited laboratory and Analyst, confirming acceptance of the Plan for analyses to be performed under this Licence.

9. Part H, Item 16

The Licensee shall submit to the Board for approval in writing, within thirty (30) of issuance of this Licence Amendment, a detailed Instrumentation Monitoring and Surveillance Plan for inclusion in the O&M Manual, required under Part F Item 1(h). This Plan shall include:

- i. Details of the proposed instrumentation plan, the frequency of measurements and trigger values or observations for remedial action;
- ii. A review of geothermal monitoring plans including the number of thermistors to be installed, the location of thermistor installations, the installation of thermistors within the key trench, the depth of thermistor strings in subgrade soils, justification for the final chosen depth of thermistor strings, and the final detailed design of thermistor strings, taking into consideration reviewer comments; and
- iii. Details of settlement monitoring at the upstream and downstream toes of the berms.

If you have any questions regarding the above, Please contact me at your earliest convenience.

Regards,

Sean



Sean Joseph- ᓄᓐ ᓇᓂᓂᓐ

Technical Advisor- Conseiller technique

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