NWB Tools

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Fwd: 1BR-BAK---- Water Licence Application for the Baker Lake Landfarm Project

Sylvia Ekelik <sylvia.ekelik@nwb-oen.ca> Wed, Aug 3, 2022 at 9:00 AM
Draft To: Richard Dwyer <richard.dwyer@nwb-oen.ca>

From: **Ayilara, Sulaimon** <SAyilara@gov.nu.ca>
Date: Fri, Jul 29, 2022 at 3:40 PM
Subject: RE: 1BR-BAK---- Water Licence Application for the Baker Lake Landfarm Project
To: Assol Kubeisinova <assol.kubeisinova@nwb-oen.ca>
Cc: licensing@nwb-oen.ca <licensing@nwb-oen.ca>, Richard Dwyer <richard.dwyer@nwb-oen.ca>

Hello Assol,

See response in red ink as below.

3. The application states GN will perform water treatment on the collected wastewater. Could you please provide the details on the process, such as any engineering drawings and quality of influent and effluent. The GN-PPD have a water treatment plant on site to treat hydrocarbon contaminated water, if need be. The water treatment system ensures treatment of impacted water to meet BTEX, F1 to F4 and other parameters to prevent water pollution and environment threat.
    1. Could you please provide the details on the process, such as any engineering drawings and quality of influent and effluent? See attached picture for the water treatment plant on site with influent with impacted water and effluent with treated water which is sampled and tested at the laboratory to ensure it meet environmental standards for discharge.

    2. Is the plant currently in use? If so, what is it treating now? Yes, water treatment plant presently on site for all contaminated water treatment from the cell berm that contain impacted water.

4. Where will the treated wastewater be released? Upon water treated and confirm be laboratory as good parameter of BTEX, F1 to F4, GN-PPD gets discharge permission from the CIRNAC before discharge to the environment outside the berm.
    1. The map shows that the landfarm is planned to be located next to a water body. Why was this location chosen? This is approved location by the Hamlet council for the proposed landfarm site.
    2. Is there any aquatic life in this water body? No aquatic at the water body around but there is aquatic life in the nearby lake which is 6km away.
    3. Are there any other users of this water body? No user of the water body.
    4. Is the treated water going to be released in the water body or away from it? The treated water is always release to the high-land area away from the water body.

5. The application notes that the quantity of wastewater is estimated at 500 L. What is the time period, during which this volume will be generated? Water inside the landfarm is usually generated through Ice melt during the spring/summer weather period and if contaminated, are being treated before discharging out of the berm. What is the time period, during which this volume will be generated - e.g., 500L/day or 500 L/month, etc.

    Total of +/- 500L is generated from ice melt and freshet for the spring/summer months of May/June/July/August (all 4 months together).

8. Could you please provide a standalone spill contingency plan prepared in the format set out by the Consolidation of Spill Contingency Planning and Reporting Regulations R-068-93? See attached

1. Could you please provide the actual procedures of containing and cleaning up a spill into the plan?

SPILL CONTAINMENT AND CLEAN-UP PROCEDURES

1. Ensure that the spill is properly contained for public safety.

2. Assess the spill site with Department of Environment to establish a clean-up plan.

3. Activate the clean-up plan utilizing local equipment, local personnel and obtaining clean-up materials. These resources are available through Department of Environment, Community and Government Services, the local Fuel Delivery Contractor, and local Heavy Equipment Contractors.

2. Could you please indicate the persons responsible for containing and cleaning up a spill?

PPD have local Fuel Delivery Contractor, local Heavy Equipment Contractors in every 25 Nunavut communities and responsible for containing and cleaning up any spill.

The PPD Environmental Service Specialist supervise the spill activities.

9. The application package included engineering drawings; however, the drawings are illegible. Could you please provide them in a better resolution? See attached IFC stamped drawing You mentioned groundwater monitoring wells that will be installed. Could you please provide their locations on a map in reference to the landfarm?

See test pit drawing attached with TP-1, TP-2, TP-3. All these test pits serve as groundwater monitoring which primary purpose of groundwater monitoring systems is to monitor the quality of groundwater. Periodic water level measurements at various 3 TP locations are essential for assessing and observing groundwater levels and flow conditions, obtaining samples for determining groundwater safety.

Thanks.

Sulaimon Ayilara

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