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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

File No: **3BM-CHE1523**

October 1, 2020

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**RE: NWB Technical Review of 2018 and 2019 Annual Reports for the Hamlet of Chesterfield Inlet; Water Licence No: 3BM-CHE1523**

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Dear Ms. Collins and Mr. Mullins:

The Nunavut Water Board (NWB or Board) has completed its technical review of the 2018 and 2019 Annual Reports (Reports) submitted to the Board on September 3, 2019 and June 1, 2020, respectively, to fulfill the requirements of Part B of Water Licence No: 3BM-CHE1523 (Licence). Following receipt, the Reports were made available through the Kivalliq distribution list for information. No comments have been received to date.

The technical review of the Reports determined that the information provided addresses the general monitoring requirements of the Licence. However, some of the other Licence requirements were not addressed.

The NWB notes that the 2018 Inspection Report<sup>1</sup> indicated that *the flow meter at the fresh water intake was broken at the time of the inspection* and that *the conveyance line from Puiksuk Lake to the water reservoir has a number of holes*, which caused water loss. Therefore, it is unclear how the fresh water intake volumes were calculated prior to the flow meter repairs and whether the water lost through the holes in the conveyance pipe was accounted for in the Reports. The Board would like to remind the Licensee that all fresh water drawn from the source should be reported within the Annual Reports and requests that the Licensee, within sixty (60) days from the date of issuance of this letter, provide further clarification to the aforementioned questions regarding the fresh water volumes reported in the 2018 and 2019 Annual Reports.

Additionally, the Board notes that the 2019 Annual Report mentioned that *the new water reservoir supply line is planned to be constructed in 2020* and that the design drawings for this

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<sup>1</sup> Crown-Indigenous Relations and Northern Affairs (CIRNA) Water Licence Inspection Report, August 17, 2018

water line were submitted to the Board on April 18, 2019<sup>2</sup> in the document entitled *Water Transmission Line Design, Chesterfield Inlet, Nunavut, dated March 5, 2019*. The Board would like to remind the Licensee that, in accordance with **Part E, Item 4** of the Licence, a Construction Summary Report along with stamped as-built drawings should be submitted to the NWB within ninety (90) days of completion of the construction work.

The Board also notes that the Reports did not provide a summary of the inspections of all engineered facilities related to the management of Water and Waste, as required under **Part B, Item 1 (j)** and **Part F, Item 6** of the Licence. The NWB would like to remind the Licensee that the condition included under **Part F, Item 6** of the Licence allowing for such annual inspections to be completed and summarised by a Municipal Engineer was included specifically at the request of the Licensee. Therefore, the Board requires an explanation as to why this commitment was not adhered to, within sixty (60) days from the date of issuance of this letter.

Additionally, the NWB notes that the information on the fish-bearing status of the Wetland area required under **Part D, Item 5** of the Licence has not been provided to the NWB to date. The Board would like to remind the Licensee that, as per the correspondence<sup>3</sup> received from the Department of Fisheries and Oceans (DFO) on September 11, 2014, the *DFO [was] unable to confirm if the wetland area is fish-bearing due to limited information* and recommended that *an environmental consultant with expertise in fish sampling and fish habitat assessment in the north be retained [...] to confirm fish presence or absence*, stressing that *generally a minimum of two (2) years of fish sampling is required to confirm whether a waterbody is fish-bearing*. The Licensee is asked to provide this outstanding information to the Board, or an explanation as to why it has not been provided yet, within sixty (60) days from the date of issuance of this letter.

The NWB also notes that the following documents required by the Licence, and also requested within the NWB 2017 Annual Report technical review, have not been provided to the Board to date:

- **Part E, Item 5:**

The Licensee shall submit to the Board for review within ninety (90) days of Licence issuance, stamped, as-built drawings and a **Construction Summary Report for the Water Supply Facility** pump-house upgrades that occurred in 2010, as described in the Application submitted February 25, 2015.

- **Part F, Item 1:**

The Licensee shall submit to the Board for approval in writing by August 31, 2015, a stand-alone **Water Supply Facilities Operations and Maintenance Plan**, which includes appropriate conditions and operating procedures to accommodate the upgrades that occurred to the Water Supply Facility in 2010, and an assessment of the

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<sup>2</sup> M. Lusty (GN-CGS) to the NWB Licensing Department, Letter, RE: Chesterfield Inlet Notice of Modification, Water Licence No. 3BM-CHE1523; April 18, 2019

<sup>3</sup> S. Niven (DFO) to M. Lusty (GN-CGS) Letter, RE: Type B Water Licence Renewal; Hamlet of Chesterfield Inlet; September 11, 2014

storage capacity of the Water Supply reservoir, to ensure that it can properly accommodate the maximum Water-use volume allowed under this Licence.

- **Part F, Item 2:**

The Licensee shall update and resubmit as a stand-alone document, the **Solid Waste Disposal Facilities Operation and Maintenance Manual** by August 31, 2015, to the Board for approval in writing. The Plan shall be 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 (GNWT-MACA, 1996)*, and the *Guidelines for the Planning, Design, Operations and Maintenance of Modified Solid Waste Sites in the Northwest Territories (GNWT-MACA, 2003)*. This updated Manual shall include but not be limited to the following:

- a) Solid Waste Disposal Facilities Operation and Maintenance Plan;
- b) Hazardous Waste Management Plan;
- c) Monitoring Program Station descriptions and locations—including GPS.

- **Part F, Item 3:**

The Licensee shall update and resubmit as a stand-alone document the **Sewage Waste Management Plan** by August 31, 2015, to the Board for approval in writing. The Plan shall be 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 (GNWT-MACA, 1996)*. This updated Manual shall include but not be limited to the following:

- a) Sewage Disposal Facilities Operation and Maintenance Plan;
- b) Sewage Sludge Management Plan;
- c) Monitoring Program Station descriptions and locations—including GPS.

- **Part F, Item 4:**

The Licensee shall update and resubmit as a stand-alone document the **Emergency Response and Spill Contingency Plan** by August 31, 2015, to the Board for approval in writing. The Plan will be prepared where appropriate in accordance with the *Guidelines for Spill Contingency Planning (AANDC, 2007)*.

- **Part H, Item 10:**

The Licensee shall submit to the Board for information, within ninety (90) days following Licence issuance, a **Quality Assurance/Quality Control Plan** based on 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 include a cover letter from an accredited laboratory confirming acceptance of the Plan for the monitoring and analyses to be performed under the Licence.

Additionally, the NWB has no record of receiving the 2016 Annual Report, which was due on March 31, 2017. The Board reminds the Licensee that the annual reporting requirements of the Licence should be adhered to at all times, so as to help maintain full compliance with respective terms and conditions of the Licence.

The Licensee is requested to submit to the Board all outstanding information listed above, or an explanation as to why it was missing along with the timeline advising when these outstanding submissions will be provided to the NWB, within sixty (60) days from the date of issuance of this letter.

Should you have any questions, please feel free to contact the undersigned at (867) 360-6338 (extension 29) or [sergey.kuflevskiy@nwb-oen.ca](mailto:sergey.kuflevskiy@nwb-oen.ca), at your convenience.

Sincerely,



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Sergey Kuflevskiy  
Technical Advisor  
**NUNAVUT WATER BOARD**

Cc: Distribution List – Kivalliq