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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

File No.: **3BM-ARC1419**

May 24, 2018

Debbie Johnson  
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**RE: NWB Technical Review of 2017 Annual Report for the Hamlet of Arctic Bay; Water Licence No. 3BM-ARC1419**

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Dear Ms. Johnson and Mr. Roy:

The Nunavut Water Board (NWB) has completed a technical review of the 2017 Annual Report.

On May 24, the NWB acknowledged receipt of the Annual Report and provided it to the Qikiqtani distribution list for information. No comments have been received to date.

The technical review of the Annual Report found that additional information is necessary to meet the following requirements of the Licence:

- Part B, Item 1a:

tabular summaries of all data generated under the “Monitoring Program”, including an interpretation and discussion of wastewater treatment levels of the Waste Water Treatment Facility as well as the treatment efficiency of the Vegetated Filter Strip Wetland Area;

While the Annual Report provided tabular data summaries, it did not provide interpretation or discussion of the data or treatment levels.

- Part B, Item 1e:

an assessment of the geotechnical and geothermal performance of the Waste Water Treatment Facility including an analyses of the results from the thermistor, standpipe and settlement monitoring stations, as required in Part H Item 11;

The Annual Report did not provide information related to the geotechnical and geothermal performance of the Waste Water Treatment Facility.

- Part H, Item 2 and 3:

The Licensee shall sample water quality at Monitoring Program Stations ARC-3, ARC-4, ARC-6a, ARC-6b, and ARC-7 three (3) times annually (once at the onset of decant; once mid-way during decant; and once near completion of decant)...

The Licensee shall sample at Monitoring Program Stations ARC-7b and ARC-9 annually during periods of runoff or seepage...

The Annual Report provided analytical data for one sampling event at Station ARC-6 and three sampling events at Station ARC-8. The Annual Report did not provide data for all of the required sampling and might have mislabeled the stations (the Monitoring Program Station list in Part H, Item 1 does not include a Station ARC-6 and Station ARC-8 is sewage sludge).

Please provide this information in the 2018 Annual Report and all future reports. If for some reason data or information is not available, include a discussion indicating:

- What information is missing;
- Why it was not collected; and
- Steps being made to collect it in the future.

The NWB strongly recommends that the Licensee address issues identified in 2017 by the Inspector<sup>1</sup>. Please provide a brief summary of work done to address concerns or deficiencies listed in the inspection reports and/or compliance reports prepared by an Inspector or other parties in the 2018 Annual Report.

Should you have any questions, please feel free to contact me, Dave Baines, at (867) 360-6338 (extension 29), at your earliest convenience.

Sincerely,

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Dave Baines  
Nunavut Water Board,  
Technical Advisor

Cc: Distribution List – Qikiqtani

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<sup>1</sup> Indigenous and Northern Affairs Canada (INAC) Inspection Report, July 28, 2017