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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

File No.: **3BM-RUT1520**

July 12, 2018

Martha Kalluk  
Acting Senior Administrative Officer  
Hamlet of Resolute Bay  
P.O. Box 60  
Resolute Bay, NU X0A 0V0

Bhabesh Roy, M.A.Sc., P.Eng.  
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Community and Government Services  
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**RE: NWB Technical Review of 2017 Annual Report for the Hamlet of Resolute Bay;  
Water Licence No. 3BM-RUT1520**

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Dear Ms. Kalluk and Mr. Roy:

The Nunavut Water Board (NWB) has completed a technical review of the 2017 Annual Report along with the additional submission provided with the Annual Report. The Annual Report submission included June 17, 2014 correspondence from exp Services Inc. to Bhabesh Roy.

On March 9, 2018, the NWB acknowledged receipt of the Annual Report and the additional submission and provided them to the Qikiqtani distribution list for information. No comments have been received to date.

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

- Part H, Item 4:

The Licensee shall measure and record in cubic metres, the daily, monthly and annual quantities of Water extracted for all purposes at Monitoring Program Station RUT-1.

The Annual Report did not provide daily quantities or quantities in cubic metres for RUT-1. Monthly and annual quantities from the On Tap Water Delivery System were provided in Litres. While the On Tap Delivery System can act as an effective surrogate for RUT-1, it should be explicitly explained in the Annual Report.

The NWB also notes that the water use by the Hamlet of Resolute Bay Airport Sewage Lagoon is authorized under Licence 3BM-RUT1520. While the Annual Report noted this in the annual values, the monthly quantities should be reported under 3BM-RUT1520

rather than 3BM-YRB1621 (the airport's Licence) which is only Licenced for use of 1 cubic metre per year for sampling purposes.

- Part H, Item 5:

The Licensee shall measure and record the daily, monthly and annual volume of all Effluent discharged from the Sewage Disposal Facility at RUT-2.

The Annual Report did not provide daily quantities for RUT-2. Monthly and annual quantity estimates of sewage based on the On Tap Water Delivery System was provided in Litres. While the On Tap Delivery System can act as an effective surrogate for RUT-2, it should be explicitly explained in the Annual Report.

- Part H, Item 6:

The Licensee shall sample monthly at Monitoring Program Station RUT-2.

The Annual Report did not provide analytical data explicitly labeled as from RUT-2. The analytical data provided was labelled as from the 'Sewage Outfall' and "Sewer Outfall". This is likely for RUT-2, but it should be explicitly explained in the Annual Report.

Please provide this information in the 2018 Annual Report/Other Report Titles] 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 provided; and
- Steps being made to provide it in the future.

The NWB notes that the Licensee has not provided all the submissions previously required by the Licence:

- Part D, Item 4 (Main Licence):

The Licensee shall conduct a **site specific study for the determination of a Fecal Coliform limit for Sewage Disposal Facility Effluent** that maintains the quality of the receiving waters within reasonable and acceptable limits and submit a Report of the site specific study to the Board for approval by December 1, 2015. The study shall take into considerations the receiving water quality objectives provided in the Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories, 1992 and the Report shall provide recommended fecal coliform limits for inclusion in Part D, Items 2 and 3.

To date, the NWB has no record of receiving this information which was due on December 1, 2015.

The NWB notes that the 2017 Annual Report states: "The Licensee conducted a site specific study for the determination of a Fecal Coliform limit for Sewage Disposal Facility

during the last summer. The Report is attached.” The NWB acknowledges that a report was attached to the 2017 Annual Report. However, the report attached to the submission was 2014 correspondence about fecal coliforms.

- Part F, Item 1 (Main Licence):

The Licensee shall submit to the Board for approval in writing, within ninety (90) days of issuance of the Licence, **Operation and Maintenance (O&M) Manual for the Water Supply Facilities, Utilidor, and Sewage Disposal Facility** 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”. The Manual shall take into consideration the comments received during the application review process and shall contain the following plans:

- a. O&M Plan for the Water Supply Facility;
- b. O&M Plan for the Utilidor;
- c. O&M Plan for the Sewage Disposal Facility;
- d. Abandonment and Restoration Plan
- e. Spill Contingency Plan; and
- f. Quality Assurance/Quality Control (QA/QC) Plan required by Part H, Item 9 of the Licence.

To date, the NWB has no record of receiving this information which was due on September 28, 2015.

The NWB strongly recommends that the Licensee address issues identified in 2017 by the Inspector<sup>1</sup>. The NWB notes the significant discrepancy between

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.

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<sup>1</sup> Indigenous and Northern Affairs Canada (INAC) Inspection Report, June 23, 2017.

Should you have any questions, please feel free to contact us at (867) 360-6338, at your earliest convenience.

Sincerely,

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Richard Dwyer  
Nunavut Water Board,  
Manager of Licensing

Cc: Distribution List – Qikiqtani