



November 6, 2019

File: 3AM-IQA1626

Attention: Richard Dwyer
Manager of Licensing
Nunavut Water Board
[via email: richard.dwyer@nwb-oen.ca]

Reference: Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC)/Nunavut Water Board (NWB) comments on the City of Iqaluit's 2018 Annual Report for Water Licence No. 3AM-IQA126

Dear Mr. Dwyer,

Please accept the City of Iqaluit's response to CIRNAC/NWB Comments on the 2018 Annual Report for Water License No. 3AM-IQA1626.

- 1. West 40 Landfill:** The missing containment pond was drained due to a fire in 2014 at the Landfill. The previous location of the containment pond is now being used as a disposal area at the landfill. The proposed Wood Waste Processing area was built but did not cover the containment pond. The Wood Waste Processing area also burnt down in 2014 and was not re-built. Site drainage at the West 40 Landfill is presently being managed as per the approved Landfill O&M manual, and Environmental Monitoring Program and QA/QC Plan – see Figure 1 below for reference.

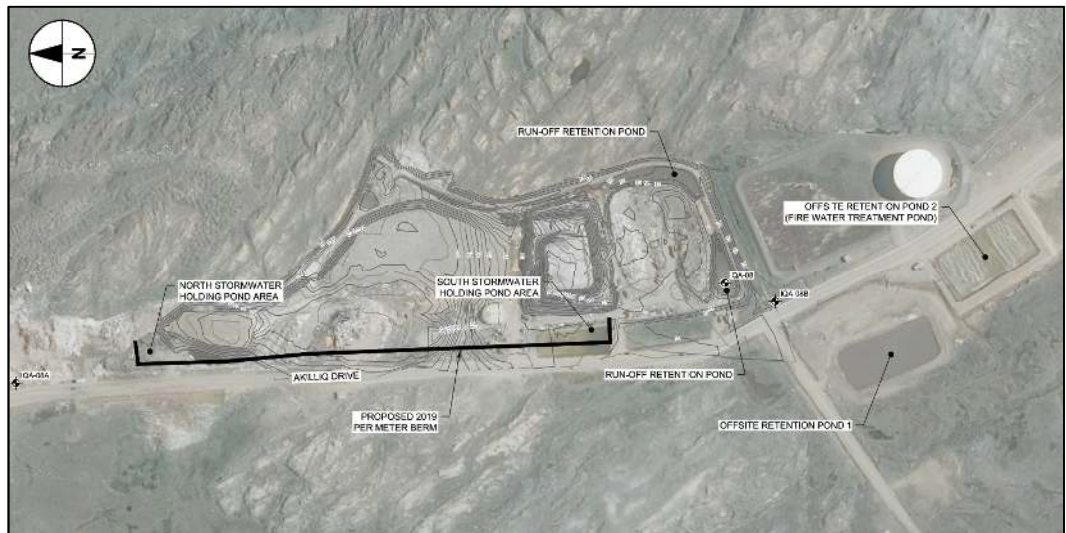


Figure 1 - West40 Landfill Containment Ponds

- 2. Deposit of Waste at the end of Federal Road:** The City of Iqaluit does not own the land on Federal Road where the waste is being stored. It is the understanding of the City of Iqaluit that this is Commissioner's land and that the waste is a legacy of prior land uses, principally military. The City will continue to work with CIRNAC and the Commissioner to confirm the agency with responsibility for the waste at this location.
- 3. Surface Water Management Plan:** The City of Iqaluit has recently completed a Master Drainage Plan that describes the current drainage system of the City. CIRNAC and NWB have confirmed that the Master Drainage plan is an adequate means of

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describing the City's Surface Water Management Plan. A copy of the Master Drainage Plan can be downloaded from this link -

<https://colliers.sendthisfile.com/QKoATqV5KyoCXIV70wkP10DL>

NOTE: The link above will expire on November 13, 2019.

4. **Spill Report not Submitted:** There was no spill in the City on February 12, 2018. A spreadsheet from the Government of Nunavut Spill database has been attached to this communication. It lists all the spills in Iqaluit from February 1, 2018, to March 31, 2018. There were no spills recorded in the database on February 12, 2018.

5. **Concerns Raised in Inspection Reports**

- The addition of a remote surveillance camera is recommended – **The addition of a remote surveillance camera is being captured under the Dam Safety Management Program. The Dam Safety Management Program includes preparing a new Operation, Maintenance and Surveillance Manual.**
- The Permanent Record File, Logbook, and Operation and Surveillance manual require updating for 2015. – **The Permanent Record File, Logbook and Operations and Surveillance manuals have been updated.**
- The Emergency Preparedness Plan (EPP) reportedly prepared by others for the City should be reviewed and any incomplete items resolved, and the document added to the permanent document file. – **The Emergency Preparedness Plan has been reviewed and added to the permanent record file.**
- A new DSI is required in 2016 – **A new DSI was performed in November 2015, September 2017 and August 2018.**
- A new Dam Safety Review (DSR) will be required in 2018. – **A Dam Safety Management program is currently ongoing. The dam safety management program will assist in the preparation of a new Dam Safety Review.**
- Consideration should be given to implementing a pore water pressure monitoring program leading up to the next DSR in 2018, to assist with seepage and deformation assessments – **The pore water pressure monitoring system has not been implemented.**
- It is recommended that a Seismic Hazard Assessment (SHA) be conducted prior to the next DSR (2018). – **A Seismic Hazard Assessment is currently being performed under the Dam Safety Management Program.**

- It is recommended that the monthly berm monitoring program be implemented to monitor the observed active leakage identified in previous DSI's. – **A monitoring program is being implemented under the Dam Safety Management Review.**
 - Maintenance and repairs to the north access road is recommended. – **This work has not been performed.**
6. Additional ballast/rip rap- **This work has been performed as part of the Lake Geraldine Underwater Dam Repairs Project.**

Thank you for your understanding of the situation and ongoing assistance.

Sincerely,



Matthew Hamp

*Director of Public Works and Engineering
City of Iqaluit*

CC: Derek Donald – Technical Advisor, Nunavut Water Board
Bridget Campbell – Coordinator, Water Resources, Nunavut Regional Office, CIRNAC
Godwin Okonkwo – Manager, Water Resources, CIRNAC
Matthew Hamp – Director of Public Works & Engineering, City of Iqaluit
Josip Deronja – Acting Manager of Engineering, City of Iqaluit (Colliers Project Leaders)

Attachments: Spill Report – Government of Nunavut (February 1, 2018 – March 31, 2018)

Spill	Occurance Date	Spill Region	Location	Location Description	Product Spilled	Quantity	Measurement	Spill Cause	Lead Agency
spill-2018124	24-Mar-18	Baffin	Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Damage due to weather	GN - Government of Nunavut
spill-2018106	23-Mar-18		Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Other	GN - Government of Nunavut
spill-2018123	23-Mar-18	Baffin	Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Other	GN - Government of Nunavut
spill-2018135	21-Mar-18	Baffin	Iqaluit, Community, Nunavut	MH65 Around House 128	Wastewater (sewage, mine tailings)	Unknown Quantity		Damage due to weather	GN - Government of Nunavut
spill-2018134	18-Mar-18	Baffin	Iqaluit, Community, Nunavut	house 128	Wastewater (sewage, mine tailings)	Unknown Quantity		Breakage	GN - Government of Nunavut
spill-2018086	13-Mar-18	Baffin	Iqaluit, Community, Nunavut		Petroleum - fuel oil (jet A, diesel, turbo A, heat)	400	Litres	Pipe Leaks	GN - Government of Nunavut
spill-2018078	09-Mar-18	Baffin	Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Damage due to weather	GN - Government of Nunavut
spill-2018082	09-Mar-18	Baffin	Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Damage due to weather	GN - Government of Nunavut
spill-2018069	07-Mar-18	Baffin	Iqaluit	Iqaluit Tank Farm (adjasent to tank 15)	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	0	Litres	Fitting Leak	INAC - Indigenous and Northern Affairs Canada
spill-2018077	04-Mar-18	Baffin	Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Damage due to weather	GN - Government of Nunavut
spill-2018081	04-Mar-18	Baffin	Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Damage due to weather	GN - Government of Nunavut
spill-2018074	04-Mar-18	Baffin	Iqaluit	Lift Station #1	Wastewater (sewage, mine tailings)	0	Litres	Other	GN - Government of Nunavut
spill-2018080	03-Mar-18	Baffin	Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Other	GN - Government of Nunavut
spill-2018057	27-Feb-18	Baffin	Iqaluit	Iqaluit Creek, 63 45 03N 68 31 57W	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	0	Litres	Unkown Cause	GN - Government of Nunavut
spill-2018067	27-Feb-18	Baffin	Iqaluit	SEWER DUMP STN BY LAGOON	Wastewater (sewage, mine tailings)	0	Litres	Other	GN - Government of Nunavut
spill-2018068	24-Feb-18	Baffin	Iqaluit	SEWER DUMP STN BY LAGOON	Wastewater (sewage, mine tailings)	0	Litres	Other	GN - Government of Nunavut
spill-2018079	18-Feb-18	Baffin	Iqaluit, Community, Nunavut		Wastewater (sewage, mine tailings)	Unknown Quantity		Damage due to weather	GN - Government of Nunavut
spill-2018075	18-Feb-18	Baffin	Iqaluit	House 525	Wastewater (sewage, mine tailings)	0	Litres	Other	GN - Government of Nunavut
spill-2018055	06-Feb-18	Baffin	Iqaluit	Federal Road	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	10	Litres	Overflow Event	GN - Government of Nunavut
spill-2018058	05-Feb-18	Baffin	Iqaluit	City of Iqaluit Aquatic Center	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	5	Litres	Overflow Event	INAC - Indigenous and Northern Affairs Canada
spill-2018054	03-Feb-18	Baffin	Iqaluit, Community, Nunavut	Behind RL Hanson's Building	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	30	Litres	Fitting Leak	GN - Government of Nunavut