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Building *Nunavut* Together
Nunavut iuqatigiingniq
Bâtir le *Nunavut* ensemble

November 3, 2023

Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1L0

Attention: Robert Hunter, Licensing Administrator

RE: 3AM-IGL2131 – Municipality of Igloolik – Response to ECCC and CIRNAC Reviews of the 2022 Annual Report for Water Licence 3AM-IGL2131

Dear Mr. Hunter,

The Government of Nunavut Department of Community and Government Services (CGS), on behalf of the Municipality of Igloolik, has prepared the attached response to reviews received from Environment and Climate Change Canada (ECCC) and Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) on the 2022 Annual Report for Water Licence 3AM-IGL2131 from the Municipality of Igloolik.

The Municipality of Igloolik is the licensee. When offering recommendations, these should be directed to the Municipality and not the Government of Nunavut. CGS does however offer assistance to the municipalities with reporting.

Regards,

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Agency	Comment	Recommendation	Licensee Response
ECCC	01	ECCC recommends GN-CGS clarify the location (SNP station) for the monitoring results provided in Appendix A of the annual report.	<p>Appendix A referred to the effluent quality limits listed in Part E, Item 3 for IGL-4 and IGL-5, final effluent control points and final effluent discharge points, respectively. As the Municipality of Igloolik did not sample at these sites during the 2022 monitoring program, sample results taken from IGL-3 were used for comparison to the effluent quality standards to demonstrate results were below effluent quality limits.</p> <p>While it is not possible to retroactively provide results from the 2022 monitoring program that were not sampled that year, the Municipality of Igloolik will strive for full compliance in the 2024 monitoring program year, with the continued support of CGS.</p>
ECCC	02	ECCC recommends GN-CGS provide a description of overall monitoring completed in 2022, including, whether sampling occurred at IGL-2, IGL-4, and IGL-5. If monitoring did not occur, rationale should be provided. If monitoring did occur, results should be provided.	All available monitoring results were included in the 2022 Annual Report. The Municipality of Igloolik is responsible for completing the monitoring program, however CGS will continue to offer support.
ECCC	03	ECCC recommends GN-CGS clarify whether a CIRNAC inspection occurred in 2022, and if so, provide the report.	Apologies for the typographical error. This section should have read “no CIRNAC inspection in 2022”. Requests for CIRNAC inspection reports should be directed to CIRNAC.
ECCC	04	ECCC recommends GN-CGS describe the QA/QC procedures/sampling that were included during the 2022 sample collection. If QA/QC was not included, provide rationale for exclusion and a description of how omissions of QA/QC will be prevented in future sampling.	QA/QC was not included in the 2022 sampling collection. Municipality of Igloolik will strive for full compliance of the approved QA/QC Plan in the 2024 monitoring program year, with the continued support of CGS.

CIRNAC	01	CIRNAC recommends the Government of Nunavut provide the name or origin of the undefined sources of water tabulated in the 2022 Annual Report. In compliance with the water licence, CIRNAC recommends the daily, monthly, and annual quantity of freshwater withdrawn from South Lake at Monitoring Station No: IGL-1 is recorded and subsequently reported in the 2022 Annual Report, and specify if any daily rates exceeded 299 cubic metres.	The water source is South Lake, the primary water source of the Municipality of Igloolik. Table 1 is a summary of water usage based on billing records from the municipality. This is water that has been obtained from the engineered reservoir and delivered to residential and commercial properties in the community.
CIRNAC	02	CIRNAC recommends the Government of Nunavut devise a reporting system for measuring the quantity of any discharges to the Sewage Disposal Facility at Monitoring Station IGL-3.	Sewage quantities are conservatively measured based on water delivery billing records for all Municipalities with trucked sewage collections. This has been the long established reporting system for all Municipalities across Nunavut with lagoon systems.
CIRNAC	03	CIRNAC recommends the Government of Nunavut specify where the 2022 sludge removal measurements are reported.	Sludge was not removed. Statement that no sludge removal to report will be added to future Annual Reports.
CIRNAC	04	CIRNAC recommends the Government of Nunavut clarify that cell #2 and cell #3 correspond to lagoon B and C, respectively. CIRNAC recommends the Government of Nunavut include the dates of discharge from the Sewage Disposal Facility. CIRNAC recommends the Government of Nunavut include the 2022 analytical results for Station IDs IGL-4A, IGL-4B, IGL-4C, IGL-5A, IGL-5B, and IGL-5C in the 2022 Annual Report to remain in compliance with the water licence terms and conditions or provide an explanation as to why it was not done.	Confirmed, cell #2 and cell #3 correspond to lagoon B and C, respectively. All available monitoring results were included in the 2022 Annual Report. While it is not possible to retroactively provide results from the 2022 monitoring program that were not sampled that year, the Municipality of Igloolik will strive for full compliance in the 2024 monitoring program year, with the continued support of CGS.

CIRNAC	05	<p>CIRNAC recommends the Government of Nunavut submit the 2022 Engineer's report for the structural integrity of the Sewage Disposal Facility with the 2022 Annual Report.</p> <p>CIRNAC recommends the Government of Nunavut submit a status update on the amount of daily seepage from cell A, the spill containment measures employed, and response to if repairs will be completed prior to the 2023 water licence inspection.</p>	<p>The Igloolik Wastewater Treatment Facility – Sewage Lagoon Berm 2022 Dam Safety Inspection (DSI) is provided. There is not yet a timeline for repairs. CGS is pursuing funding and will move forward with this as soon as feasible.</p> <p>No 2022 daily seepage. Following DSI recommendation, Table 7-1, seepage from cell A is being avoided by maintaining lagoon levels around 150mm below the 1 m freeboard level.</p>
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