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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

Licence No: **3AM-GRA1631**

October 26, 2023

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**RE: NWB Technical Review of 2022 Annual Report for the Municipal Water Licence
No: 3AM-GRA1631 for the Municipality of Rankin Inlet**

Dear Mr. Flynn and Ms. Collins,

The Nunavut Water Board (NWB or Board) has completed a technical review of the 2022 Annual Report submission for the above stated Water Licence. On March 27, 2023, the Board acknowledged receipt of the 2022 Annual Report, and provided them to the Kivalliq distribution list for information. On April 25, 2023, the Board acknowledged receipt of the revised 2022 Annual Report, and provided them to the Kivalliq distribution. Comments were received from CIRNA on June 23, 2023, with follow-ups on August 22, 2023 and August 30, 2023. ECCC submitted comments on June 27, 2023. GN-CGS provided responses on August 15, 2023, August 23, 2023 and September 8, 2023. The table below summarizes the comments received:

Crown-Indigenous Relations and Northern Affairs		
#	Comment	GN-CGS response
1	Clarify the units of Table 2 of the 2022 Annual Report and recommendation to include the daily quantities of water withdrawn from Lower Landing Lake in the 2022 Annual Report, and specify if any daily rates exceeded 10,000 cubic metres.	Error has been rectified and the daily logs have been included in the appendices.
	<u>Follow-up:</u> CIRNAC acknowledges the updates to Table 2 of the 2022 Annual Report. CIRNAC recommends that GN-CGS clarify the 2022 pumping start date from Lower Landing Lake and specify if any daily rates exceeded 10,000 cubic metres.	Daily logs are taken from a flow meter. This is a continuous record since the installation. To calculate the daily quantities, we have performed a subtraction equation. $244,719 \text{ (July 20)} - 239,250 \text{ (July 19)} = 5,469 \text{ m}^3$

2	CIRNAC recommends GN to submit the water quality monitoring results for Stations: GRA-1, GRA-3, GRA-4, GRA-5, and GRA-7 or specify if none were collected in 2022. Provide a summary table comparing results of GRA-1 and GRA-7 with CCME WQG for Protection of Freshwater Aquatic Life.	No sampling was done in 2021 due to COVID apart from GRA-3 and in 2022 there was a bottle shortage at the lab. Correspondence of this shortage has been attached to the report.
	<u>Follow-up:</u> CIRNAC acknowledges inclusion of email correspondence of bottle shortage. CIRNAC recommends that GN-CGS clarify in the 2022 Annual Report if the bottle shortage issue has been resolved, and if the Licensee is conducting sampling in compliance with the water licence.	Bottle shortage has been resolved for 2023. Although the bottle shortage was not favourable, the current lab that is used, is the best and closest option for providing services to the Kivalliq Region.
3	CIRNAC recommends GN indicate the timeframe when flow was observed at GRA-3 in 2022, and provide an explanation as to why sampling was not conducted or analytical results were not provided as per Schedule J, Table 2 of the water licence.	It is assumed the recommendation is referring to the single missed sampling event. As above there was a bottle shortage and therefore the fourth sampling event could not take place.

Environment and Climate Change Canada		
#	Comment	GN-CGS response
1	ECCC recommends that the Proponent provide a description of the QA/QC procedures/sampling utilized in the 2021 and 2022 sample collections. If QA/QC procedures/sampling was not conducted, ECCC recommends that the Proponent provide rationale for exclusion, as well as a description of how QA/QC omissions will be prevented in future sampling.	The QA/QC sample summary in Appendix A has been taken from the Certificate of Analysis (COA) shown in Appendix C.
2	ECCC recommends that the Proponent clarify whether sampling occurred at the GRA-3 SNP station in 2021. Furthermore, ECCC recommends that all samples be accurately labelled, and all sample results be compiled into the monitoring summary table for the year.	Noted that labelling in the COA is incorrect. This should be labelled GRA-3 and will be in future to save confusion.

3	ECCC recommends that a table summarizing all monitoring results, for all SNP stations, be provided for the 2022 report, and for future reports. Furthermore, ECCC recommends that the laboratory certificates for 2022 be moved out of Appendix D and into Appendix C.	Appendix A is the summary table for GRA-3. Due to a bottle shortage, sampling events in 2022 were not completed. This has been added to the report to reflect this. Report has been resubmitted with the Appendices corrected.
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The NWB strongly recommends that the Licensee consult the comments submitted by CIRNA and ECCC on the issues identified. This information is attached for your consideration¹. The Board is aware of the Written Warning² letter sent to the Licensee by CIRNA Water Resource Officer. The Board advises the Licensee to inform the NWB of corrective steps taken to comply.

Should you have any questions, please feel free to contact the undersigned at (867) 360-6338 (extension 33) or ali.shaikh@nwb-oen.ca, at your earliest convenience.



Mohammad Ali Shaikh
Nunavut Water Board,
Technical Advisor

Enclosure: Comments – CIRNA, ECCC

Cc: Distribution List – Kivalliq

¹ Crown Indigenous Relations and Northern Affairs Canada (CIRNA), June 27, 2023; Environment and Climate Change Canada (ECCC), June 27, 2023.

² Written Warning, File: 2022-KIV14-KA, Crown Indigenous Relations and Northern Affairs Canada (CIRNA), December 12, 2022.