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Department of Community and Government Services Nunalingni Kavamatkunnilu Pivikhaqautikkut Ministère des Services Communautaires et gouvernementaux

Nunavut Water Board

December 16, 2020

Re: Licence No: 3AM-GRA1624 – KIVALLIQ REGION – HAMLET OF Rankin Inlet – WATER LICENSE AMENDMENT AND RENEWAL

To Whom It May Concern:

Thank you for your review of the 2020 Annual Report for 3AM-GRA1624 Completeness Check. Please see the below table with response and action items to be undertaken by the Hamlet and CGS.

No	Intervener Recommendation / Concern	Response by CGS
CIDI	NT A	
CIRNA 1 Water Pumping Rate		Noted.
	Recommendation: CIRNAC recommends that the impacts of abstracting water from Lower Landing Lake at the proposed rates on flow in the Char River be discussed during the technical review	Troica.
2	Timing of pumping from Lower Landing Lake Recommendation: Explain why they are requesting permission to pump only in July and August, when this pumping might have the most impact on flows in Char River	This is a mistake. Pumping will occur during the full thawed season – June – September. The request for up to 10,000m/day is to account for delays in start up/breakdowns and other delays.
3	Recommendation: Provide an updated Water Pumping Plan. It may not to be adaptive, but should reflect the proposed pumping location. The plan should include measures to be taken to prevent sediment from entering water during pipeline installation and de-installation over the river each year, as well as monitoring to confirm effectiveness of measures taken	 To clarify, the 12 inch steel carrier pipe installed over Char River will remain in place, and only the 10 inch water pipe is removed and reinstalled each year. There will be no impact to the riverbanks from feeding the water pipe into the installed steel pipe. An updated Water Pumping Plan for pumping from Lower Landing Lake can be submitted within one year of this licence in order to address all



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		aspects of the pumping location. Recommendations for the pumping plan have already been given during the 2016 Nipissar Lake and Lower Landing Water Balance Assessment (attached to email). The findings from this assessment will inform the pumping plan.
4	Modifications to Monitoring Program	It is understood that potential
	 Recommendation: 4.1) CIRNAC recommends any renewed water license modify monitoring requirements at station GRA-6. Water monitoring could be reduced to those parameters typically measured during construction activities and limited to periods when work is occurring. The samples should be taken downstream of work and may require addition of a 6b station. Water quantity monitoring may also need to be modified, following discussions on abstraction rates 4.2) Reviewing possible modifications to monitoring requirements at station GRA-7 after the technical discussion for recommendation 1, on potential impacts of Lower Landing Lake water withdrawal on Char River flow 	impacts to Char River from pumping at Lower Landing Lake need to be considered. The Water Balance Assessment has considered these impacts and made recommendations to inform a pumping and monitoring plan for Lower Landing Lake and Char River. This information will become part of the Water Pumping Plan, which will describe pumping and monitoring plans. • As there are no construction activities planned to take place near Char River (steel carrier pipe is in place and not being moved), is sampling for this type of activity still recommended?
5	Reclamation Plans for Old Intake	The intake on Char River was a
	 Comment: Reclaiming old facilities is necessary when they are replaced by new ones. CIRNAC was unable to find any information on what would happen to the old water intake in Char River Recommendation: Describe what they plan to do with the old water intake on Char River. If appropriate, any renewed water 	removable 8 inch poly hose with strainer. It has been already been moved from the site, with no impact to the river.
	license should include the requirement to	
	submit a reclamation plan within a	
	specified period	
6	Term of Amended Licence	This is acceptable to GN. An update on
	Recommendation: CIRNAC recommends the applicant provide a tentative schedule for steps towards upgrading the wastewater treatment plant. Furthermore, should the Nunavut Water Board extend the term of a	activities that took place over the last year and planned activities for the next year for the WW treatment plant could be included in the annual report, or annually as a stand-alone document.



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	renewed licence, we recommend the addition of a condition to report on progress towards upgrading wastewater treatment, with explanations for deviations from the tentative schedule	Tentative schedule is as follows. Note that contract award and construction years are dependant on success during funding applications: 2021 – Field studies (geotechnical, Environmental, wind/snow) 2022 – funding applications for design/build contract 2023 – Award design/build 2024/2025 – Construction/commissioning
1	Water Quantity, Pumping Rates and Char River Flow Recommendation: To provide discussion on how flow will be monitored and maintained in the Char River to ensure it is not significantly impacted and ecological integrity is maintained.	The attached Water Balance Assessment has considered impacts on Char River from pumping at Lower Landing Lake, and has recommended an approach to pumping to ensure longevity of the river ecological integrity. It is proposed that this be included in an updated Water Pumping Plan and Monitoring Plan, to be submitted within 1 year.
2	Water Pumping Adaptive Management Plan Recommendation: Provide an amended Plan to reflect the new pumping location and management practices that will ensure water quantity and quality are maintained in lower Landing Lake and the Char River	An amended Water Pumping Plan to be updated and submitted within one year.

If there are any questions or concerns, please contact me at scollins@gov.nu.ca or (867)975-5478.

Sincerely,

Sarah Collins P. Eng

1) Collins

Municipal Planning Engineer

Community and Government Services

Government of Nunavut