



Water Resources Division
Nunavut Regional Office
Iqaluit, NU
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NWB File: 3AM-GRA1015
CIDMS #: 1034262

February 26, 2016

Karen Kharatyan
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**Re: Type "A" Water Licence Renewal Application – Final Technical
Submission of Type "A" 3AM – GRA1015 - Hamlet of Rankin Inlet**

Please be advised that Indigenous and Northern Affairs Canada (the Department, or INAC) has completed a final review of the water licence application for 3AM-GRA1015 for the Hamlet of Rankin Inlet. The Nunavut Water Board (NWB) circulated the final review for comments on February 5, 2016. All associated documents related to this application posted on the NWB ftp site under 3AM-GRA1015 were included in this review (see attached Technical Review Memo).

Should you have any questions or comments, please do not hesitate to contact me at (867) 975-4282 or by email at Ian.Parsons@aandc-aadnc.gc.ca.

Sincerely,

Original signed by

Ian Parsons, B.Sc.
Regional Coordinator

Cc. Scott Burgess, A/Manager of Water Resources – INAC, Nunavut Regional
Office (NRO)
Erik Allain, Manager of Field Operations – INAC, NRO



Final Technical Review Memorandum

Re: Type “A” Water Licence Renewal Application – Final Technical
Submission of Type “A” 3AM – GRA1015 - Hamlet of Rankin Inlet

Comments/Recommendations

1) Sources:

- i) 2015 Water Licence Renewal Application for the Hamlet of Rankin Inlet Submitted to the Nunavut Water Board.
- ii) Water Balance Assessment Submitted to NWB February 2016
- iii) Water Pumping Adaptive Management Plan Submitted to NWB February 2016

Issue: AANDC notes that the applicant has indicated that they will be pumping water from Char River to supplement Nipissar Lake at a rate of 3485m³/day. The water balance assessment report and the water pumping adaptive management plan both indicate that in the future Char River will not be an adequate source for replenishing Nipissar Lake.

Recommendation #1: INAC recommends that the applicant move the pumping station location to Lower Landing Lake as soon as possible given that, the documentation submitted by the applicant indicates that in the future Char River will not be adequate to replenish Nipissar Lake and Lower Landing Lake is a suitable alternative.

2) Source: 2015 Water Licence Renewal Application - Updated Sewage Operation & Maintenance Plan

Issue: Deposit of Waste into Marine Environment (Domestic Sewage). INAC is seeking a legal determination, through the “Arctic Waters Pollution Prevention Act” and its associated regulations (AWPPA), and the Public Sewerage System Regulations which fall under the Public Health Act of Nunavut, on the authorizations required for this activity.



Recommendation #2: INAC suggests that the Board require the applicant to provide information and documentation on the approvals they have received, which would be necessary for the deposit of waste directly into a marine environment.

3) **Source:** 2015 Third and Fourth Quarter Report

Issue: In the absence of effluent quality parameters being set out in the water licence, INAC looks to the Canadian Council of Ministers for the Environment (CCME) Guidelines to be used as criteria for water quality, in this case, Water Quality Guidelines for the Protection of Aquatic Life - Marine Environment. As indicated in the 2015 third and fourth quarter reports submitted by the applicant, there are exceedances of copper in every quarter of 2015 as well as exceedances of cadmium (June and October) and the pH in June.

Recommendation #3: The applicant should submit to the Board an action plan which outlines how these exceedances were dealt with, and how they will maintain discharge levels to those set out in the CCME Protection of Aquatic Life - Marine Environment guidelines.