



NIRB File No.: 17WN058

NPC File No.: 148586

Transport Canada File No.: 2017-195

June 14, 2017

Megan Lusty
Government of Nunavut – Community and Government Services
P.O. Box 490
Rankin Inlet NU, X0C 0G0

Sent via email: mlusty@gov.nu.ca

Re: Notice of Screening for the Government of Nunavut – Community and Government Services “3AM-ARV1016 Water Reservoir Cell #3” Project Proposal

Dear Megan Lusty;

On May 18, 2017 the Nunavut Impact Review Board (NIRB or Board) received a referral to screen Government of Nunavut – Community and Government Service’s (GN-CGS) “3AM-ARV1016 Water Reservoir Cell #3” project proposal from the Nunavut Planning Commission (NPC or Commission), with an accompanying positive conformity determination with the Keewatin Regional Land Use Plan. The NPC noted that the previous conformity determination issued on January 28, 2010 for the activities associated with the current proposal continues to apply and has determined that the project proposal is a significant modification to the project because the quantity of water in the license is to be more than doubled to 175,000 cubic metres.

Pursuant to Article 12, Sections 12.4.1 and 12.4.4 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada* (Nunavut Agreement) and section 87 of the *Nunavut Planning and Project Assessment Act* (NuPPAA), the NIRB has commenced screening this project proposal and has assigned it file number **17WN058**.

INFORMATION REQUEST

Following a preliminary completeness check, the NIRB determined that the proposal as submitted did not contain the necessary information for the NIRB to carry out its screening. Pursuant to subsection 144(1) of the NuPPAA, on May 23, 2017 the NIRB requested that the additional information from the GN-CGS be provided to the Board. The NIRB followed up with the Proponent on June 6, 2017 noting that the NIRB required additional information in order to carry out the screening of the project proposal. On June 12, 2017 the NIRB received the

requested additional information and commenced the screening pursuant to Part 3 of the NuPPAA.

PROJECT OVERVIEW

Project Scope:

The proposed “3AM-ARV1016 Water Reservoir Cell #3” project is located in the Kivalliq region, within the municipal boundaries of the Hamlet of Arviat. The Proponent intends to construct and operate a new water treatment plant and drinking water storage reservoir (Cell #3) for the Hamlet of Arviat as well as increase the amount of water required to meet the demands of a growing community. Equipment mobilization is proposed to take place in summer 2017, with construction and operations proposed to begin in 2018. The project anticipated to meet the Hamlet’s water needs until 2038.

According to the project proposal, the scope of the project includes the following undertakings, works or activities:

- Construction supplies brought in to Arviat via sealift;
- Construction of a new water treatment facility, containing a reconditioned pump house and a new pump house, a treated water storage tank, and a wastewater storage tank;
- Construction of a new 103,427 cubic metre (m³) water storage reservoir (Cell #3) and excavated material to be used for berm construction;
- Use of heavy equipment for construction and use of approximately 110,000 litres (L) of diesel fuel which would be sourced locally via fuel truck;
- Addition of new fencing, berms, drainage ditches, and seasonal overland pipe to extend existing structures;
- Water retrieval from current source, Wolf Creek increasing from original withdrawal rates to approximately 175,000 m³ annually;
- Treatment of water in the water treatment facility using strainers, pressure media filtration, cartridge filtration, ultraviolet disinfection, chlorine disinfection, flocculation if necessary, and fluoridation;
- Storage of approximately 800 L of granular calcium hypochlorite and 300 L of hydrofluosilicic acid for water treatment stored on site;
- Use of Hamlet’s water and sewage trucks to fill and empty storage tanks in treatment facility, accessing site by existing Hamlet road and new proposed truck turn-around space;
- Deposition of treatment wastewater in the community sewage lagoon;
- Storage of approximately 36,253 L of fuel onsite for heating and for the back-up generator which would be sourced locally by fuel truck; and
- Proper handling of fuels, chemicals, and waste (Operation and Maintenance Plans, Environmental Management Plan, and Environmental Contingency Plans provided).

At this time, the NIRB has identified no additional works or activities in relation to the project proposal. As a result, the NIRB will proceed with screening the project based on the scope as described above.

REQUEST FOR COMMENTS

All documents received and pertaining to this project proposal can be obtained from the NIRB's online public registry at www.nirb.ca by using any of the following search criteria:

- Project Name: 3AM-ARV1016 Water Reservoir Cell #3
- NIRB File No.: 17WN058
- Application No.: 125135

The documents received include:

- *NPC Screening Referral and Conformity Determination*
- *NPC Application and Conformity Questionnaire*
- *NIRB's Online Application Form*
- *Non-technical Project Proposal summary in English and Inuktitut*
- *Maps noting project location*
- *Environmental Monitoring Plan*
- *Environmental Emergency Contingency Plan and addendum*
- *Final Schematic Design Report*
- *Engineering sketches detailing the earth berm, water treatment, reservoir site plan, water supply facility, and subdrain.*
- *Geotechnical Investigation Report*
- *Solid Waste Management Facility Operation and Maintenance (O&M) Plan Hamlet of Arviat*
- *Sewage Treatment Facility Operation and Maintenance (O&M) Plan Hamlet of Arviat*
- *Government of Nunavut – Department of Economic Development and Transportation (Nunavut Airports division) approval for the proposed project*
- *Transport Canada's Aeronautical Assessment for Obstacle Evaluation and determination email*

The NIRB will copy you on screening process related correspondence and upload related documents to the NIRB's online registry for public access. The NIRB may request additional information at any time during the process.

The NIRB is copying parties and municipalities potentially affected by the GN-CGS's project proposal with this letter, and we invite interested parties to comment directly to the NIRB by **July 5, 2017**.

The NIRB would like parties to provide comments regarding:

- Whether the project proposal is likely to arouse significant public concern; and if so, why;
- Whether the project proposal is likely to cause significant adverse eco-systemic or socio-economic effects; and if so, why;
- Whether the project proposal is likely to cause significant adverse impacts on wildlife habitat or Inuit harvest activities; if so, why;

- Whether the project proposal is of a type where the potential adverse effects are highly predictable and mitigable with known technology, (please provide any recommended mitigation measures); and
- Any matter of importance to the Party related to the project proposal.

CONTACT INFORMATION

Please send your comments to the NIRB via email at info@nirb.ca, via fax at (867) 983-2594 or via the individual project dashboard for this assessment on the NIRB's online public registry at www.nirb.ca by using any of the following search criteria:

- Project Name: 3AM-ARV1016 Water Reservoir Cell #3
- NIRB File No.: 17WN058
- Application No.: 125135

If you have any questions or require clarification, please contact the undersigned at 867-983-4607 or at sthompson@nirb.ca.

Sincerely,



Shanley Thompson, PhD
Technical Advisor II
Nunavut Impact Review Board

cc: Distribution List
Karén Kharatyan, Nunavut Water Board
Luis Manzo, Kivalliq Inuit Association
Maria Serra, Kivalliq Inuit Association
Ralph Ruediger, Government of Nunavut-Community and Government Services
Darren Flynn, Government of Nunavut-Community and Government Services
Randy Mercer, Government of Nunavut-Community and Government Services
Tracey McCaie, Indigenous and Northern Affairs Canada
Charlotte Lamontagne, Indigenous and Northern Affairs Canada
Georgina Williston, Environment and Climate Change Canada

Enclosures (4): Public Notice of Screening (English and Inuktitut)
Comment Forms (English and Inuktitut)