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admin@city.iqaluit.nu.ca www.iqaluit.nu.ca June 2, 2014

Sean Joseph Technical Advisor Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

Re: City of Iqaluit – Northwest Granular Deposit

Dear Mr. Joseph:

In 2005, Indian and Northern Affairs of Canada (now Aboriginal and Northern Development of Canada, AANDC) commissioned a granular aggregate assessment covering a 10 km radius of the City of Iqaluit. Target areas with the best potential to yield economically viable aggregate resources were visited. The extent and volume of the deposit was identified and the general physiography of the area was identified to determine ease of access. Ground Penetrating Radar (GPR) data was collected to investigate the character of the subsurface deposits.

Through this investigation, the Northwest Area (includes Trail Area Deposit and Northwest Iqaluit Granular Deposit) was determined to contain high quality gravel, with minimum volume estimates of 1,000,000 cubic meters of gravel alone and well in excess of 4,000,000 cubic meters of combined sand and gravel. It was determined that the total potential reserves in the Northwest Area could reach in excess of 14,000,000 cubic meters. This investigation also determined that the Tarr Inlet Area contain an estimated 762,289 cubic meters of undifferentiated sediments. As a result of this work, the City identified the Northwest Deposit its next long-term granular source and proceeded with developing the Trail Area Deposit (which is located on route to the Northwest Iqaluit Granular Deposit) as an interim source.

In 2007, the City constructed a road from Upper Base to the Trail Area Deposit. In 2010, the City developed the Trail Area Deposit to provide private contractors with designated lots for extraction. The Trail Area Deposit is now nearing depletion and the Northwest Iqaluit Granular Deposit needs to be developed as soon as possible. This deposit must by developed and operational by July 2015 at the latest. Please see figure 1 that has been attached to show the location of the Northwest Iqaluit Granular Deposit and the preliminary location of the road to the deposit.

The City of Iqaluit has recently hired **exp** Services Inc. to prepare and complete a geotechnical review of the Northwest Iqaluit Granular Deposit and complete the design of the road to the Northwest Iqaluit Granular Deposit and develop a portion of the Northwest Iqaluit Granular Deposit. The first part of this project consists of completing detailed geotechnical study to confirm the viability of the Northwest Iqaluit Granular Deposit as a long term source. The geotechnical investigation will involve taking an air-rotary drill and

heavy equipment to the site following an ATV path (there currently is no road to this site) and drill boreholes. **Exp** Services is required to minimize the disturbance of the site during the geotechnical investigation.

The second part of this project is to design and build an access road to the Northwest Iqaluit Granular Deposit and develop a portion the quarry. A preliminary road will be constructed to allow access to the Northwest Iqaluit Granular Deposit. The permanent road will then be constructed, utilizing the granular material from the quarry.

As stated in the background, the present granular source's supply is nearly exhausted and the Northwest Iqaluit Granular Deposit needs to be developed quickly to ensure the City can provide the required granular material to continue with projects within the City.

A detailed project schedule has been attached to this letter for your review and to provide a better understanding of the tight timelines we will be experiencing throughout the limited construction timeframe.

The City is requesting direction from the Nunavut Water Board on how to proceed with the approval process for this project given the fact that the current Water License is expired. The City needs to access to the granular material from the quarry to continue projects that the Nunavut Water Board requires the City to complete, in order to come into compliance.

Sincerely,

## Richard J. Sparham

Project Officer Engineering Department

City of Iqaluit Box 460, Iqaluit, NU XOA 0H0

PROPOSED ROAD TO
NORTHWEST AGGREGATE DEPOSIT SP1 **PRELIMINARY** CITY OF IQALUIT SITE PLAN CERALDINE UPPER BASE ROAD ROAD TO TRAIL AREA DEPOSIT TRALL APEA DEPOSIT

Figure 1: Proposed Road – Preliminary Design