



December 16, 2014

Shawn Fitzgerald,
A/ Senior Administrative Officer
Hamlet of Pangnirtung
PO BOX 253
Pangnirtung NU X0A 0R0

Dear Mr. Fitzgerald:

On December 11, 2014, Aboriginal Affairs and Northern Development Canada (AANDC) Water Resource Officers, Field Operations received a request from Mr. Ralph Rudiger, Director of Community Development, and Mr. Bhabesh Roy, Municipal Planning Engineer, both of the Government of Nunavut, Department of Community & Government Services (CGS) to extend the sewage 'bypass' for the sewage treatment plant in the Hamlet of Pangnirtung until February 28, 2015 due to operational issues. This request was made to facilitate the commissioning and proper 'seeding' of the bacterial agents required to treat waste water and meet acceptable water quality discharge standards.

Background

As quoted directly from the accompanying memorandum, Project # OTT-00204430-A0/File No:3.1 written by **exp**;

"The temporary bypass of screened wastewater at the Pangnirtung WWTP will be required until the new biological treatment system is capable of accepting all of the wastewater. It is anticipated that the initial plant start-up will allow the system to begin accepting a small component of the total wastewater flow. A particular challenge for the Pangnirtung system, and indeed any similar systems in the north, is the acquisition of viable seed sludge for initial plant start-up. For the Pangnirtung system, a dry seed product will be introduced into the system but will require several weeks of growth before a sufficient and stable biological population can be developed to treat the entire daily flow rate. The system will be slowly ramped up in flow rate over an estimated period of 5-6 weeks. During this period, partial system bypass will still be required. With respect to a specific timeline for the bypass, this will depend heavily on the construction schedule, biological growth rates after initial seed, and potential issues during

the first few weeks of operation. However, barring any unforeseen delays or other major issues, an estimate of the work remaining (with estimated completion dates) and the duration of temporary wastewater bypass is as follows:"

Activity	Estimated Completion Date	Bypass (% of total daily flow)
Treatment plant construction	mid-October, 2014	100%
System testing (clean water only)	early December, 2014	100%
Reactor seeding and system start-up	early December, 2014	100%
Start Accepting Wastewater	mid-December, 2014	85 – 100%
Ramp-up wastewater flow to reactor (5-6 wks)	mid-January, 2015	20 – 85%
Finish plant start-up	mid/late-January, 2015 ***	0%

*** This date will now extend to mid/late February due to operational issues as outlined in second memorandum from **exp**, Project OTT-00204430-A0/File No:3.1, dated December 10, 2014 that I have attached to the email that is sending this document.

Determination

It has been determined by AANDC that there is a requirement to conduct a temporary bypass in the Hamlet of Pangnirtung in order to commission the waste water treatment plant.

It is also important to note that Environment Canada was notified about the bypass occurring in the Hamlet of Pangnirtung. Environment Canada has not provided authorization to conduct the bypass but has requested that notification be posted in the Hamlet of Pangnirtung while the bypass is being conducted.

Please be aware that the Hamlet of Pangnirtung, **exp.**, Government of Nunavut, Department of Community & Government Services and all contractors or employees involved with the bypass process in the Hamlet of Pangnirtung may be held responsible where acts or omissions that do not exercise due diligence occur. This includes but is not limited to uncontrolled spills or discharges of waste water or other substances.

This letter does not exempt those persons or parties conducting the bypass in the Hamlet of Pangnirtung, or the project in whole from following or meeting other relevant legislation and it must be understood that one or more federal or territorial agencies may stop the bypass prematurely where events occur that require early intervention.

Sincerely,



Robert Savard
Water Resources Officer
Aboriginal Affairs and Northern Development Canada
Iqaluit, Nunavut.

- cc. Erik Allain, Manager, Field Operations, AANDC Iqaluit.
Ralph Rudiger, Director of Community Development, CGS
Bhabesh Roy, Municipal Planning Engineer, CGS
Curtis Didham, Enforcement Officer, Environment Canada
Phyllis Beaulieu, Nunavut Water Board