



**Environment Environnement
Canada Canada**

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Our file: 4703 001

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Via email at licensingtrainee@nwb.nunavut.ca

RE: NWB 1BR-IAD – Nunavut Airports – Culvert and Ditch Repair Project

On behalf of Environment Canada (EC), I have reviewed the information submitted with the above-mentioned application. The following specialist advice has been provided pursuant to Environment Canada's mandated responsibilities for the enforcement of the *Canadian Environmental Protection Act*, Section 36(3) of the *Fisheries Act*, the *Migratory Birds Convention Act*, and the *Species at Risk Act*.

The Government of Nunavut is proposing to undertake a project to repair a drainage ditch located at the Iqaluit airport. The proposed project includes clearing accumulated sediment and repairing/replacing culverts in order to restore drainage and prevent overflows during spring runoff. The removal of the existing abandoned utilidor is occurring under NWB 1BR-UTI. Soil sampling results indicate that all samples taken were below CCME Soil Quality guidelines for coarse grained soils in industrial areas.

Environment Canada requests the following information in order to facilitate our review of this application:

- The EBA letter dated February 13, 2006 indicates that contract documents state that all ditch material is to be stockpiled on site at a location determined by the Engineer. Environment Canada requests information regarding the location where sediment to be excavated from the ditch will be stockpiled, especially in relation to any waterbodies.
- An approximate volume of material to be excavated.
- Environment Canada requests information regarding the final use and/or disposal location of sediment excavated from the ditch.
- Information is required regarding erosion protection measures that will be utilized to prevent sedimentation of surrounding or downstream waterbodies during ditch rehabilitation and while the material is stockpiled.
- The proponent should provide information regarding how any water encountered excavation will be handled. If the existing utilidor has already been removed, does the proponent plan to install a temporary diversion ditch to reroute drainage during the rehabilitation of the existing ditch?

Environment Canada recommends that the following conditions be applied throughout all stages of the project:

- The proponent shall not deposit, nor permit the deposit of any fuel, wastes or sediment into any water body. According to the Fisheries Act, Section 36(3), the deposition of deleterious



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- substances of any type in water frequented by fish, or in any place under any conditions where the deleterious substance, or any other deleterious substance that results from the deposit of the deleterious substance, may enter any such water, is prohibited.
- Soil samples were only taken from 3 areas identified to be of concern by the Iqaluit Airport Manager, due to frozen conditions. Samples were analyzed for hydrocarbons and metals. Of these samples, only 1 sample was tested for polyaromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs). Environment Canada has concerns that the number of samples may not be representative of contamination. Environment Canada recommends that the material be further sampled prior to long term storage and/or disposal in order to verify the accuracy of the sampling results.
 - The proponent shall ensure that erosion protection measures are employed to prevent sedimentation of downstream and surrounding waterbodies during operations.
 - Excavated materials should not be stockpiled below the highwater mark of any waterbody, and should be stored such that sedimentation of surrounding or downstream waterbodies cannot occur.
 - **All spills** shall be documented and reported to the 24 hour Spill Line at (867) 920-8130

If there are any changes in the proposed project, EC should be notified, as further review may be necessary. Please do not hesitate to contact me with any questions or comments with regards to the foregoing at (867) 975-4639 or by email at colette.spagnuolo@ec.gc.ca.

Yours truly,

Original signed by

Colette Spagnuolo
Environmental Assessment / Contaminated Sites Specialist

cc: (Stephen Harbicht, Head, EA North, Environment Canada, Yellowknife)