



Fisheries and Oceans Canada  
Pêches et Océans Canada

**Eastern Arctic Area**

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June 9, 2008

Dillon Project No. 07-8107  
DFO File: 08-HCAA-CA7-00018

Sudhir Jha  
Government of Nunavut  
Community and Government Services  
Bag 200  
Cambridge Bay, NU  
X0B 0C0

Dear Mr. Jha:

**Subject:** Proposal not likely to result in impacts to fish and fish habitat provided that additional mitigation measures are applied.

Fisheries and Oceans Canada - Fish Habitat Management Program (DFO) received your proposal on April 23, 2008. Please refer to the file number and title below:

DFO File No.: 08-HCAA-CA7-00018  
Title: Water Intake, Canso Lake, Taloyoak, Kitikmeot Region

Your proposal has been reviewed to determine whether it is likely to result in impacts to fish and fish habitat which are prohibited by the habitat protection provisions of the *Fisheries Act*.

Our review consisted of:

- the report regarding the Taloyoak Water Treatment Plant prepared by Joseph Van Humbeck (Dillion Consulting), dated March 28, 2008;
- the drawing entitled, "Intake Profile and Sections", Sheet No. 105, prepared by Dillion Consulting, dated April 11, 2008; and
- the email regarding the Taloyoak Water Treatment Plant, written by Joseph Van Humbeck (Dillion Consulting), dated June 6, 2008.

We understand that you propose to:

- install two raw water intake pipes (each 300mm diameter insulated HDPE) along the bed of Canso Lake;
- grade the near shore area to accommodate the alignment of the pipes which will extend to a depth of approximately 8 metres, below the October 2007 survey water surface;

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- place riprap (minimum 200mm diameter) to a thickness of 2 metres over the pipes and over existing rocky substrate;
- meet the criteria indicated in Fisheries and Oceans Canada's Freshwater Intake End-of-Pipe Fish Screen Guideline which includes the placement of the intake screens, constructed of Type 304 stainless steel, with slot opening widths of 2.54mm at the end of the water intake pipes; and,
- isolate the work area by means of a sediment curtain followed by salvaging fish in the isolated area.

To reduce potential impacts to fish and fish habitat we are recommending the following mitigation measures be included into your plans:

- No in-water work should occur from August 15 to June 30 to protect the fish species in Canso Lake during critical spawning and rearing periods.
- A qualified biologist or environmental inspector should be on site during all in-water construction, to ensure implementation of the designs as intended in the Plan.
- All materials and equipment used for the purpose of site preparation and project completion should be operated and stored in a manner that prevents any deleterious substance (e.g. petroleum products, silt, debris, etc.) from entering the water.
  - Any stockpiled materials should be stored and stabilized above the ordinary high water mark of any water body.
  - Vehicle and equipment re-fuelling and maintenance should be conducted above the ordinary high water mark of any water body.
  - Any part of equipment entering the water should be free of fluid leaks and externally cleaned/degreased to prevent any deleterious substance from entering the water.
- Only clean material that is non acid generating, non metal leaching and free of fine particulate matter should be placed in the water.
- Material used for habitat compensation features should not be taken from below the ordinary high water mark or shoreline of any water body.
- Sediment and erosion control measures should be implemented prior to work, and maintained during the work phases, including decommissioning and restoration phases, to prevent entry of sediment into the water or the movement of re-suspended sediment.

- All sediment and control measures should be inspected regularly to ensure that they are functioning properly and are maintained and/or upgraded as required to prevent entry of sediment into the water.
- All disturbed areas should be stabilized upon completion of work and restored to a pre-disturbed state or better.
- Sediment and erosion control measures should be left in place and maintained until all disturbed areas have been stabilized.
- The floating silt curtain should be deployed so as to confine total suspended solids released during construction to the area defined by the footprint of the water intake pipe.

Provided that the additional mitigation measures described above are incorporated into your plans, DFO has concluded that your proposal is not likely to result in impacts to fish and fish habitat.

You will not need to obtain a formal approval from DFO in order to proceed with your proposal.

Please notify this office at least 10 days before starting the work. A copy of this letter should be kept on site while the work is in progress.

If the plans have changed or if the description of your proposal is incomplete you should contact this office to determine if the advice in this letter still applies.

Please be advised that any impacts to fish and fish habitat which result from a failure to implement this proposal as described or incorporate the additional mitigation measures included in this letter could lead to corrective action such as enforcement.

If you have any questions please contact myself at our Eastern Arctic Area - Iqaluit office at (867) 979-8007, by fax at (867) 979-8039, or by email at Amy.Liu@dfo-mpo.gc.ca.

Yours sincerely,



Amy Liu  
Habitat Management Biologist  
Fisheries and Oceans Canada

Copy: Keith Pelley – Fisheries and Oceans Canada  
Joseph Van Humbeck – Dillon Consulting  
Phyllis Beaulieu – Nunavut Water Board

