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SLWB File: S13L1-007

Bonnie Bergsma
Sahtu Land and Water Board
P.O. Box 1
Fort Good Hope, NT X0E 0H0

**RE: Water Licence S13L1-007
Approval for Bear Island to Goose Island Depth of Cover Repairs – January 2016**

Dear Ms. Bergsma,

Imperial Oil Resources N.W.T. Limited (Imperial) is submitting a project plan entitled "Design of Flowline Protection – Bear Island to Goose Island", which outlines the depth of cover repair work planned for the winter of 2016.

Imperial plans to complete repairs on a 110m stretch of the Bear Island to Goose Island flowline bundle, using armouring. The width of this work will be 40m. The intent of this work is to increase depth of cover along the entire reach of the flowline bundle, providing optimum protection and enhancing the stability against ice movement.

The Bear Island to Goose Island flowline bundle is located in a channel of the Mackenzie River where water depth is approximately 7m. Imperial anticipates the section of river where the work is to take place will not be frozen to bottom. It is anticipated that there will be 1-1.5m of ice thickness, and a depth of water of approximately 5m. Armouring will be completed in 5m sections by placing Class D rock, while minimizing the armour profile and the overall flow and depth characteristics of the Mackenzie River. Included in the enclosed Project Plan are safety and environmental considerations, along with efforts to be made by Imperial to minimize impact on the Mackenzie River.

Imperial is requesting the Board's approval to complete this work towards the end of January 2016. It is expected that the work will take approximately 7 weeks to complete. Imperial is also requesting approval from the National Energy Board (on behalf of NEB and Transport Canada) and making notification to the Department of Fisheries and Oceans Canada prior to commencing this work.

Please refer to the attached Project Plan for all details pertaining to the proposed work. Any additional questions or concerns please contact Lindsay Hollands at (867) 587-3215.

Sincerely,

Alana Phelps
Cold Lake & Conventional Environment and Regulatory Supervisor

Encl.: "Design of Flowline Protection – Bear Island to Goose Island" - Worley Parsons 2015
cc: J. Watson Operations Superintendent, Norman Wells Operation