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VIA EMAIL

December 13, 2016

Licensing - licensing@nwb-oen.ca
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
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Re: Notification of modification to the 2AM-DOH1323 and 2BE-HOP1222 Windy Lake water intake line

As per Part H, Item 1 of the Type A Water License 2AM-DOH1323, TMAC Resources Inc. is providing written notification detailing a modification to the Windy Lake water intake line. TMAC intends to replace one of two existing lake intake lines with a longer one of the same design. The purpose of this modification is to reach deeper water that is less influenced by natural spring runoff, which currently causes elevated turbidity and consequential water treatment challenges during freshet.

The new line will run parallel to the existing line and will extend approximately 50 m from the shore. The new line will be a 4" insulated HDPE pipe equipped with heat trace to prevent freezing during the winter months. The line will be anchored to a series of concrete blocks (1m x 0.7m x 0.7m). Stainless steel anchor cables will be attached to the 4" line in order to keep the line submerged. The intake will be equipped with fish screen designed to ensure that no fish will become entrained, and to allow for an optimal pumping rate that will safeguard against fish becoming impinged on the screen itself. The overall design of the line will allow for it to be suspended above the lake bottom in order to reduce maintenance requirements. This design will provide more open area resulting in less debris being impinged on the screen surface.

The new line and anchoring system will be installed by placing it on top of the ice this winter and allowing it to melt through the ice and settle on the lake floor in spring.

The line that was installed in spring 2016 will be disconnected from its anchor and pulled out of the lake once the ice is fully melted. The concrete block anchor will be left in the lake. The original intake line will be left in place to act as a contingency in the event that there are issues or maintenance required on the new intake line.

If you have any questions or require clarification on any of the information provided please contact me.

Regards,



M. John Roberts
Vice-President Environmental Affairs
TMAC Resources Inc.

cc:
Eva Paul, INAC
Véronique D'Amours-Gauthier, DFO
John Roesch, KIA