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Kivalliq Inuit Association

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February 23rd, 2021

Richard Dwyer

Manager of Licensing

Nunavut Water Board

P.O. Box 119

Gjoa Haven, NU, XOB 1J0

Sent via email: licensing@nwb-oen.ca

Dear Richard

RE: Amaruq Phase 2 IVR WRSF Pumping System Design Report, License 2AM-WTP1830

The Amaruq Phase 2 IVR WRSF Pumping System Design Report has been reviewed by the Kivalliq Inuit Association (KivIA).

The KivIA has the following comments and questions:

1. Section 2.0 Contact/Surface Water Management, page 2, paragraph 3

The report states that "water from IWC sump will be pumped to a highest point (El 176 m) to the east of the IVR WRSF and discharged within the same catchment area of the IVR Attenuation Pond. From there, water shall follow the natural topography an gravity flow toward IWE sump (former A54 lake) and then overflow to toward the IVR Attenuation Pond. Alternatively, water from the IWC could also be transferred toward IWA."

The KivlA would prefer the alternative solution with water from the IWC being transferred toward IWA. The KivlA is of the opinion that this would minimize the footprint related to any TSS impacts for the catchment area. In addition, it should allow for better control of surface runoff during spring freshet.



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2. Section 3.2 Access Ramp and Pumping Pad, page 4, Table 3-2

The KivIA would like to see the value for the "Safety Berm Height included in Table 3-2.

3. Section 3.4.1 Culvert Results, page 8

The report states that "a culvert system with three (3) CSP's of 800 mm diameter would be able to pass the design flow at partially full capacity (85% diameter)."

The KivIA has the following questions regarding the capacity, installation and inspections of the culverts:

- i) Does the design flow at partially full capacity for the 800 mm, or 900 mm, diameter culverts included peak flow during freshet?
- ii) At what elevation within the IVR WRSF ring road will the culverts be placed?
- iii) Will all culverts be placed at the same elevation in the IVR WRSF ring road, or will they be placed at different elevations?
- iv) Will there be regular inspections of the culverts during winter and spring to ensure that the culvert(s) are not packed with snow and/or ice?
- v) Will snow removal from the IVR WRSF ring road be completed in such a manner as to not plug the culverts, or the area immediately adjacent to the culverts, with snow?

Regards

Luis Manzo

Director of Lands

Kivalliq Inuit Association