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Fisheries Protection Program

The Fisheries Act Fisheries Protection Program objective is to protect Canada's commercial, recreational and Aboriginal fisheries and those species that support fisheries by avoiding serious harm (death of fish and/or permanent alteration/destruction of fish habitat)

[illegible]

Canada

Technical Comments:

Duval River: Water Withdrawal Impact Assessment

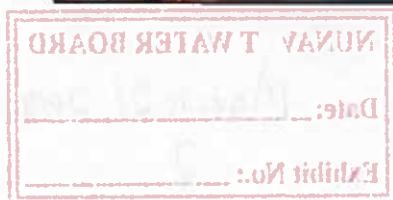
- Based on the hydrological assessment of Duval River discharge data, the Proponent meets DFO's framework for water withdrawal
 - Fisheries and Oceans Canada, Canadian Science Advisory Secretariat, Science Advisory Report: [A Framework for Assessing Ecological Flow Requirements to Support Fisheries in Canada](#), 2013/017

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Canada



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Technical Comments:

Duval River: Water Withdrawal Impact Assessment

- Based on a pumping rate of 32 L/s, cumulative water withdrawal will not exceed 10% of instantaneous flow at any time and no water will be withdrawn when instantaneous flow is below 30% of the mean annual discharge (MAD)

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 $\dot{C}-C\sigma^b/s-CL\sigma^b$, $b\eta^C < C\Delta\sigma^C$
 $\Delta L\Delta^b\Delta\sigma^C \sim 10\%$ $d\delta^{5b}C\Delta\sigma^{5b}\eta^C \sim 32$
 $10\%-F^b d\delta^{5b}C\Delta\sigma^{5b}\eta^C$
 $5b\eta^C \sim 10\%$ $d\delta^{5b}C\Delta\sigma^{5b}\eta^C$
 $\Delta L\Delta^b\Delta\sigma^C \sim 30\%$ $d\delta^{5b}C\Delta\sigma^{5b}\eta^C$
 30% $C\Delta\sigma^C < C\Delta\sigma^C$ $d\delta^{5b}C\Delta\sigma^{5b}\eta^C$
 $d\delta^{5b}C\Delta\sigma^{5b}\eta^C$ $d\delta^{5b}C\Delta\sigma^{5b}\eta^C$ (MAD)

Canada

Δεν είναι δυνατόν να γίνει:

Technical Comments:

Duval River: Water Withdrawal Impact Assessment

- Recommendation
 - Should the Duval River be subject to levels of cumulative water withdrawal greater than 10% of instantaneous flow or when instantaneous flow is below 30 % of the MAD, a more rigorous level of assessment is required to evaluate potential impacts

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- [illegible]

Canada

ΔC₂H₆O Δ⁹TJHΔ:

Technical Comments:

Duval River: Water Withdrawal Impact Assessment

- Recommendation

- Water should be withdrawn during higher flow periods in July and August to minimize the requirements to withdraw water during low flow periods

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Canada

Δεν είναι ορθό να πούμε:

Technical Comments:

Duval River: Water Withdrawal Impact Assessment

- Recommendation

- DFO recommends that instantaneous flow be monitored (i.e. gauged reference system) daily in a way to ensure water withdrawal does not exceed 10% of instantaneous flow and water is not withdrawn when flow is at or lower than 30% of the mean annual discharge (MAD).

[illegible]

- ΔC_pΔT_{ad}ΔT_{amb}

- [illegible]

Canada

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Technical Comments:

Duval River: Water Withdrawal Impact Assessment

- DFO supports the inclusion of a license condition to conduct a hydrology study of the Duval River to help understand the current conditions and long term sustainability of the water supply for the Hamlet of Pangnirtung

[illegible][illegible]

Canada

$\Delta C_n \triangleleft \Delta C^c \triangleright \Delta C^b \triangleright \Delta C^d$

Technical Comments:

Portable Pump Intake Screen Sizing

- Recommendation
 - Given the lack of fish information available, DFO recommends that the Proponent should ensure, if required, that a fish screen is installed on water intakes that meets DFO "Freshwater End-of Pipe Fish Screen Guideline" (1995)

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(1995).

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DFO Determination:

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Questions or Comments?

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Thank You

$\rho_L^{\text{max}} = \frac{1}{\sqrt{2}}$

Canada