



## **Preliminary Information**

Installation of One New Hydrometeorological Station

Hydro-Québec Production, Direction stratégiques et projets de production

Prepared by: Équipe soutien environnemental Nord-Ouest

March 2021

## 1. APPLICANT NAME AND CONTACT INFORMATION

<b>1.1 Promoter identification</b>
Name: Hydro-Québec Production, direction stratégiques et projets de production
Street address: 75, boul. René Lévesque Ouest
Name and title of signatory(ies) authorized to submit the application: Patrice Fillion, chef projets des installations de production
Telephone No.: 514-289-2211 poste 4349
Email address: filion.patrice@hydro.qc.ca
<b>1.2 Enterprise number</b>
Québec enterprise number (NEQ): 8811141181

## 2. PROJECT LOCATION AND SCHEDULE

<b>2.1 Identification and location of project and project operations</b>
The planned hydrometeorological station is located in the Baie-James region, on the territory governed by the <i>James Bay and Northern Québec Agreement</i> .
Land categories (I, II or III): The hydrometeorological station is located on Category III lands.
<b>2.2 Description of project site</b>
The station will be built on land.
<b>2.3 Schedule</b>
The work will take place in summer 2021.
<b>2.4 Location maps</b>
Attached are an aerial photo showing the location of the hydrometeorological station and a more detailed location map for the station. The location map gives the corresponding geographic coordinates.

## 3. PROJECT OVERVIEW

<b>3.1 Project title</b>
Project for the installation of the hydrometeorological station: Lac Winsh
<b>3.2 Site subjection</b>
The hydrometeorological station is being installed in a "gray area."

### 3.3 Summary of project and alternative installation methods

#### Description of work

- Clearing of an 13-m radius for the building location
- Installation of a prefabricated fiberglass building and measuring instruments
- Installation of a wooden helipad (clearing of a 20-m radius if necessary)

#### Work methods

- The sites are accessed by helicopter and vehicle. All necessary materials and equipment will be transported by vehicle.
- Manual clearing using a chainsaw
- No work or clearing of the buffer strip
- A mini-excavator lubricated with vegetable oil will be used to excavate for the concrete pilings and the measuring instruments.
- The concrete will be mixed using a small electric mixer and poured manually using a pail.
- A trench 1-m deep will be excavated between the building and the measuring instruments for burying the cables and will then be backfilled with excavation material.
- The helipad will be manually assembled on site (pieces of wood fastened with screws) and positioned on concrete slabs or anchored in the rock, depending on local soil type.

### 3.4 OTHER RELEVANT INFORMATION

Appendix 1 contains a series of photographs illustrating the work methods used, as well as the location map of the planned hydrometeorological station.

### 3.5 Project objectives and justification

Hydrometeorological stations collect data that Hydro-Québec uses for operations, generation planning, the environment, safety and civil engineering. That data is also shared with outside partners, such as the Ministère de l'Énergie et des Ressources naturelles, the Centre d'expertise hydrique du Québec and SOPFEU.

#### 4.1 Information and consultation activities

Hydro-Québec has taken steps to consult the Mistissini tallyman concerned by this project.

#### 5.1 Description of main project issues

No issues have been identified.

#### 5.2 Description of primary anticipated impacts on the host environment

The anticipated environmental impacts related to the installation of hydrometeorological stations are minimal in view of the work methods used. Furthermore, the Ministère de l'Environnement considers that the installation of meteorological stations by Hydro-Québec does not require a certificate of authorization under Section 22 of the *Environment Quality Act*.

#### 6.1 Greenhouse gas emissions

The site of the planned hydrometeorological station is accessible by helicopter and vehicle, and this entails greenhouse gas emissions. However, solar panels are used to provide the electric power for each installed station.

Appendix 1 – Photo illustrations of work methods  
(Shown here: installation of Chevalier hydrometeorological station near  
Outardes-3 generating station)



After a potential site has been identified, there is a helicopter search for a suitable spot to land and make preparations.



That spot must then be partially cleared to build a helipad and a platform for the shed that will house the measuring equipment.





The crew has to prepare the construction equipment for transportation to the station site.

The prefabricated building and the mini-excavator are brought in by helicopter.

