

# LITTLE LONG DAM SAFETY PROJECT

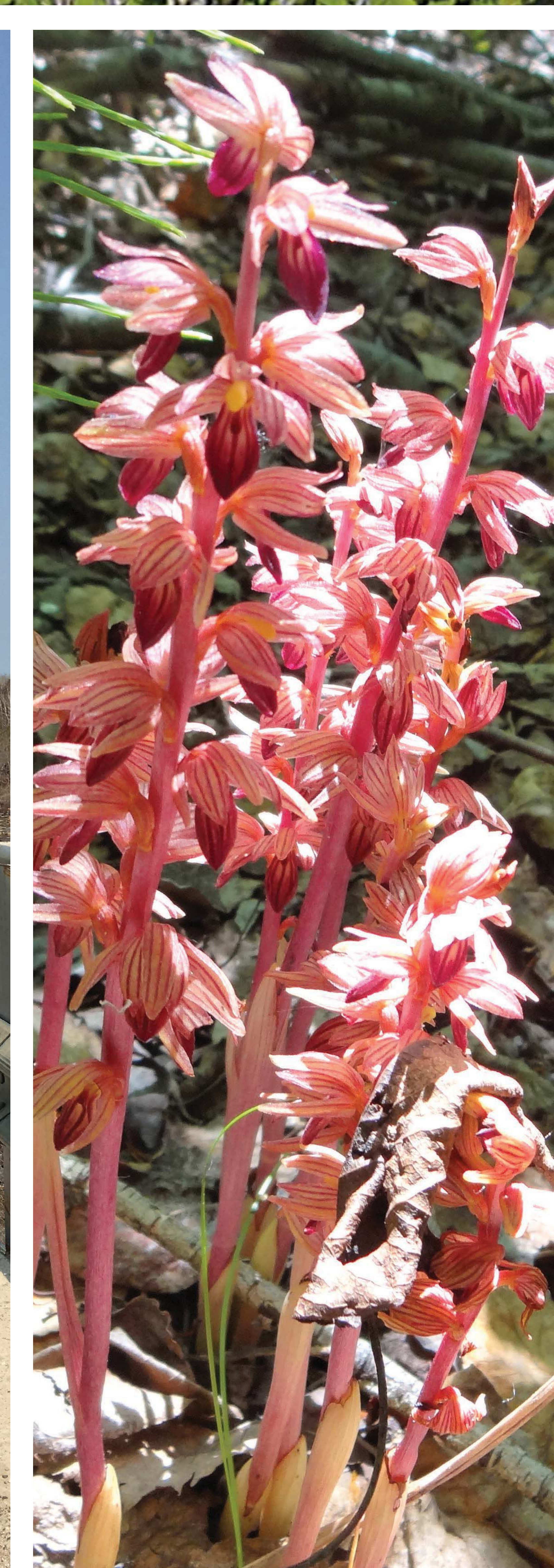
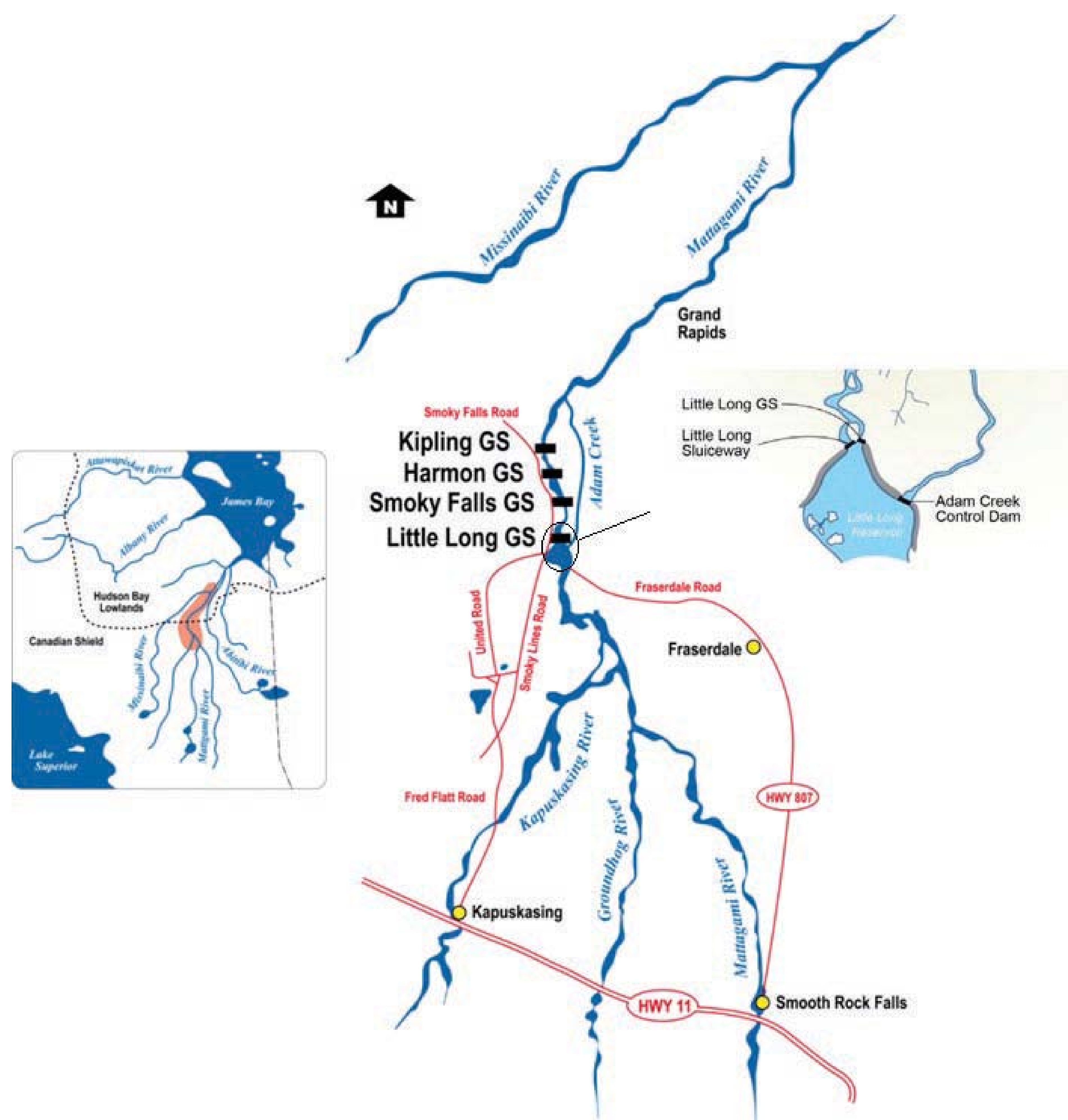
## Benefits

The Little Long Dam Safety Project will allow OPG to meet dam safety legal requirements, avoid infrastructure and operational impacts to the four generating stations on the Lower Mattagami River and reduce impacts to the environment in the event of a very large scale flood.

This project will also provide local employment and commercial opportunities.

## What is OPG Proposing to Do?

The discharge capacity at the Adam Creek Sluiceway will be increased in order to safely pass a rare large flood type event. The proposed project will not result in changes to day-to-day water levels and flows for the Little Long Main Dam. *OPG will be adding more capacity to control the water but not more water.*



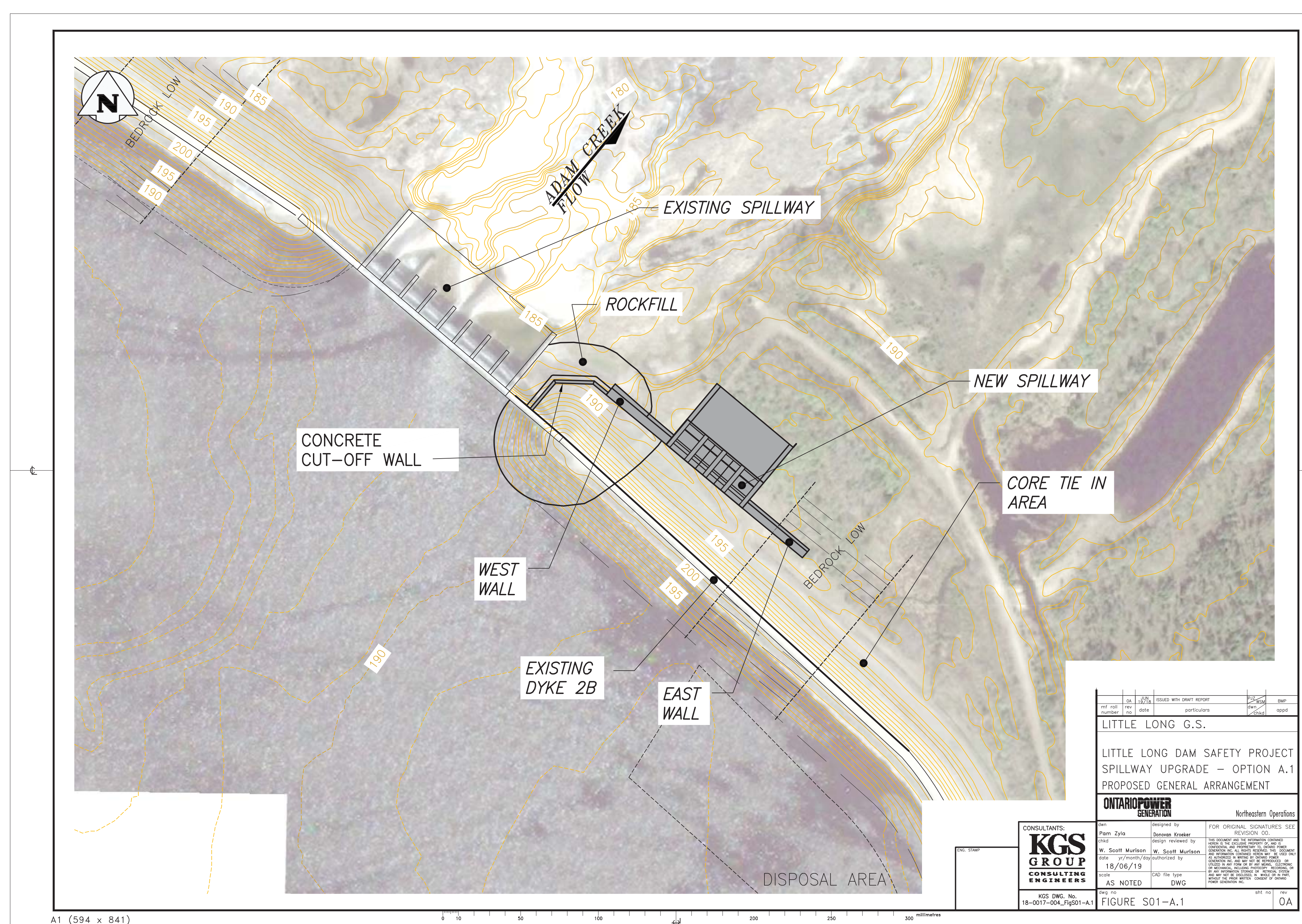
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## DESCRIPTION

### Additional gates will be added to the Adam Creek Sluiceway.

Initial studies indicate that the preferred location is on the southeast side of the existing Adam Creek Sluiceway and conceptual designs for the Project are shown below.

#### Concept 1

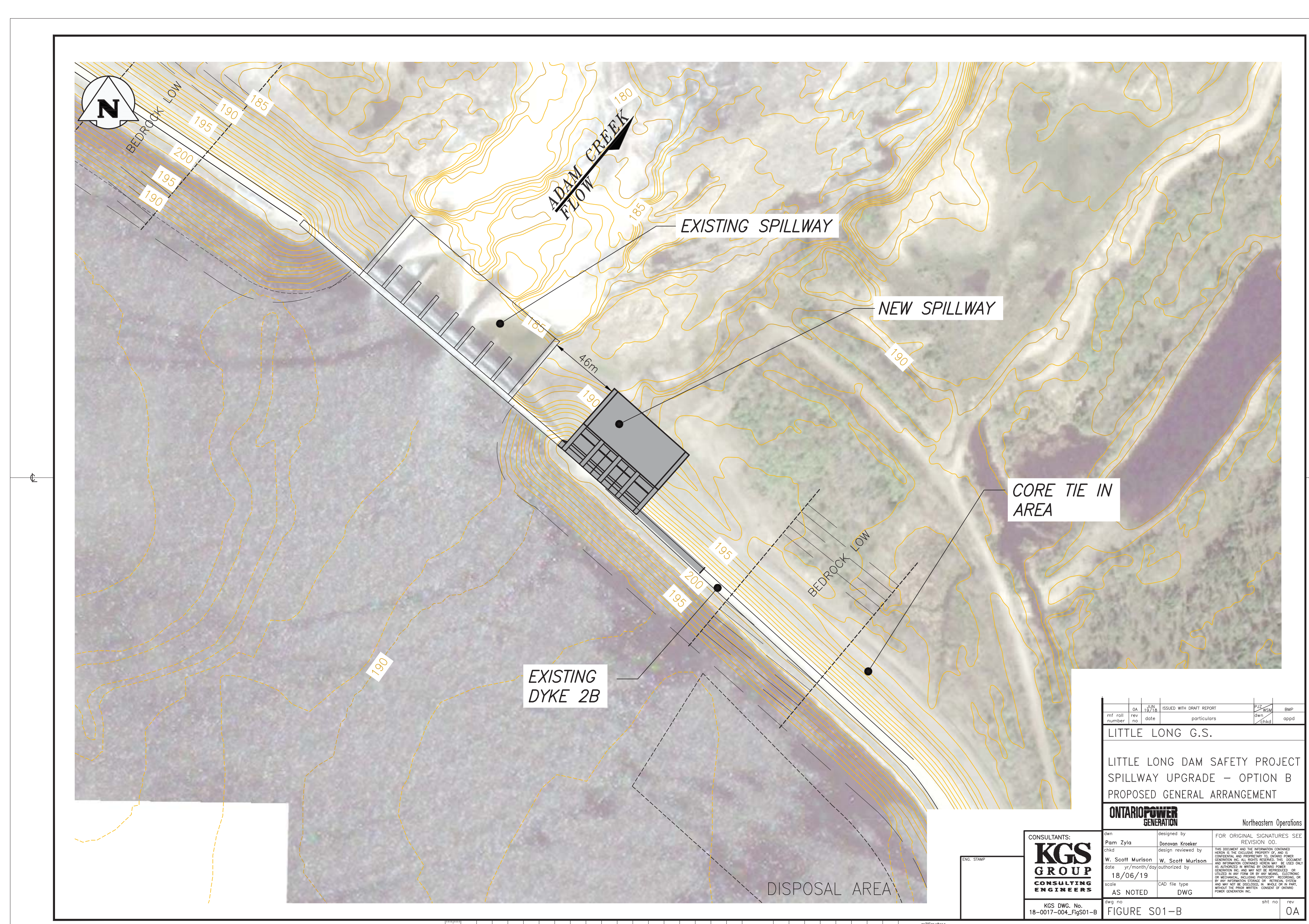


The Project will also require some other minor modifications to the Little Long Dam and also includes upgrading the existing transmission line used to provide power to the Adam Creek Sluiceway.

Some temporary construction facilities will be required to implement the project. These will likely include:

- Cofferdam(s) on the downstream and/or upstream side of the Adam Creek Sluiceway.
- Construction laydown areas for equipment, materials and construction activities.
- Construction camp near Adam Creek or in the location of the previous camp at Smoky Falls.
- Sediment Control Pond to reduce sediment in water before release back to the natural environment.

#### Concept 2



**We are here today to answer your questions and listen to your comments and concerns.**

Other ways to provide feedback:

- Comment Sheet
- Email [christopher.iledo@opg.com](mailto:christopher.iledo@opg.com) or [Phil.Shantz@arcadis.com](mailto:Phil.Shantz@arcadis.com)

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## CULTURAL HERITAGE AND SOCIO-ECONOMIC CONSIDERATIONS

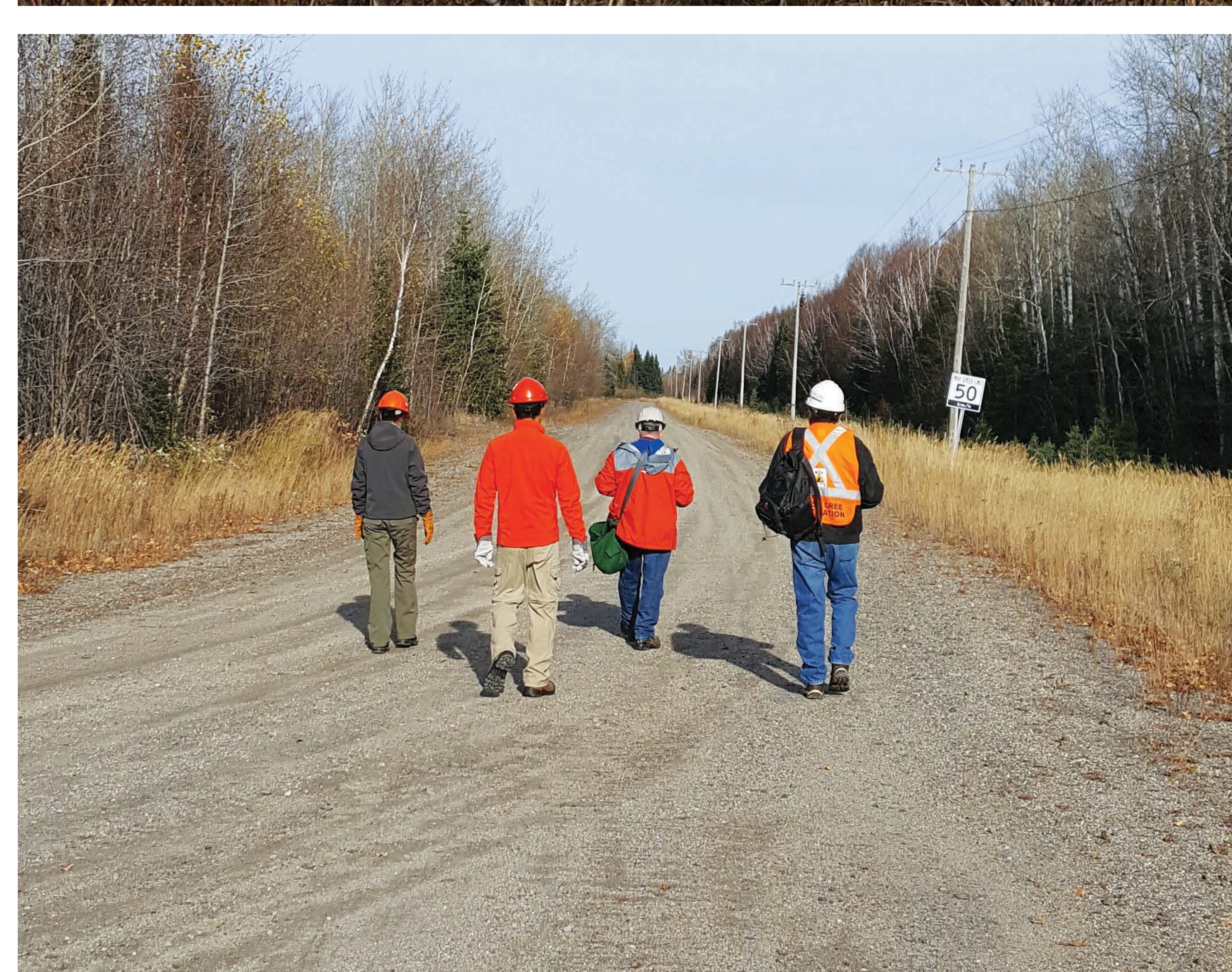
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### Cultural Heritage

- A Stage 1 Archaeological Assessment has been completed and has identified that the area was previously disturbed by the original construction of the Lower Mattagami Complex in the 1950s and 1960s.
- As the area was previously disturbed there is little potential for archaeological resources to be found and therefore construction can proceed with no further archaeological study.
- Should any archaeological resources be found during construction, work will be stopped in the immediate area and the find will be investigated.
- A Cultural Heritage Evaluation for Little Long Generating Station, including Adam Creek Sluiceway, is being undertaken. This evaluation will provide a heritage classification for the property and form the basis of a strategic conservation plan.
- Do you have any feedback to share on heritage related to this property? We would like to hear from you.

### Socio-Economic Considerations

- Adam Creek Sluiceway is a dangerous waterway area and as such there are no human uses that occur in the immediate area. Therefore, there will be no impact on human uses.
- In order for construction to occur, the Little Long Road over Adam Creek will need to be closed for the duration of the project. However, the Fred Flatt Road from Kapuskasing to the Lower Mattagami Complex area will remain open.
  - Do you have any concerns about the closure of the Little Long Road?
  - How can we best notify you about the closure?
- Economically, the Project is approximately one tenth the size of the Lower Mattagami River Project.
- The majority of this work will involve civil construction with the Project providing employment and contracting opportunities through the design build contractor.
- Please take a fact sheet to learn about employment and contracting processes.



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## ENVIRONMENTAL CONSIDERATIONS

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### Existing Environment – Adam Creek Sluiceway

- Assessment of the plant community, wildlife habitat and species at risk in 2017 and 2018 revealed that the area of the proposed construction was previously disturbed by the original Adam Creek construction in the 1950s and 1960s. No species at risk were identified.
- While the entire area has been disturbed there are many locations where the forest cover has returned and former borrow pits have filled with water and created wildlife habitat for waterfowl and other species.
- Relocation of Lake Sturgeon at Adam Creek occurs on an annual basis after freshet (freshet: the flood of the river from heavy rain or melted snow).
- Erosion has and continues to occur.

### Minimizing/Eliminating Construction Impacts

- A variety of environmental permits will be required for construction and include terms and conditions to protect the environment.
- As the project will occur in an area already disturbed by the original construction and on-going Adam Creek operations, the impact of construction activities to the natural environment will be negligible.
- Project activities to be limited as much as possible to minimize any potential habitat disturbance and to avoid areas that were originally disturbed but have become naturalized with secondary habitat (i.e. wetlands).
- Project will be developed to minimize erosion during construction and prevent sediment laden waters from being discharged directly to Adam Creek.
- During construction OPG is committed to minimizing in-water work as much as possible to reduce potential effects on the aquatic environment.
- An environmental management plan will be prepared and implemented for the construction period of the Project and will include all permit terms and conditions.

### Post Construction

- A site restoration plan will be implemented to ensure areas are restored appropriately. Some areas disturbed by the construction will remain as part of the infrastructure (i.e. parking, roads).
- OPG is exploring opportunities to address existing concerns within the vicinity of the Adam Creek Sluiceway. These are:
  - Installing gates that would reduce the likelihood of Lake Sturgeon entering Adam Creek.
  - Minimizing localized erosion by using energy dissipation barriers, shoreline armoring and/or changing flow direction.
- Lake Sturgeon relocation program in Adam Creek will continue to operate.

