

Appendix D

Information from Final Public Meeting

Northland Power

Welcomes You to the Final Public Meeting

*for the Abitibi Solar Project,
Empire Solar Project, and
Martin's Meadows Solar Project and
associated 115 kV Transmission Line*

Tuesday, August 21, 2012

7:30 pm - 9:30 pm

Tim Horton's Events Centre, 7 Tim Horton Drive
Cochrane, ON



Purpose of this Public Meeting

A public meeting to communicate project details and to solicit stakeholder input is an important aspect of the Renewable Energy Approval (REA) process and project planning.

This public meeting provides an opportunity to:

- Ask questions about the proposed Projects and the REA Project Documents
- Obtain more information about Northland Power
- Gain a greater understanding of the REA process
- Provide any further issues or concerns regarding the proposed Projects

How can I provide comments or concerns?

A number of methods are available for providing comments or concerns. You can:

- Fill out a comment form provided at this public meeting. This form can also be used to register your name and mailing address so you are included on the Projects mailing list.
- Discuss your comments or concerns with one of the representatives of Northland Power or Hatch present at this public meeting.
- Contact the Environmental Coordinator for the Project via the following information:

Sean Male, MSc
Environmental Coordinator
Hatch Ltd.

Address: 4342 Queen Street, Suite 500
Niagara Falls, Ontario, L2E 7J7

Phone: 905-374-0701 Ext 5280

Fax: 905-374-1157

Email: smale@hatch.ca

For more information please visit:

www.northlandpower.ca

Northland Power

Northland Power develops and operates clean and green power generation facilities, mainly in the provinces of Ontario and Quebec, with Saskatchewan being added to that list shortly. Our facilities produce about 870 MW of electricity. Northland Power has been in business since 1987 and has been publicly traded since 1997.

Sustainability is a core value at Northland Power. All of our development efforts and operational practices focus on providing long term benefits to our customers, investors, employees, communities and partners.

For Northland Power, sustainability has many dimensions:

Environmental: Northland Power was founded on the belief that clean and green energy sources are vital to the future of our planet. Our construction and operational practices are engineered to meet the highest environmental standards, even in jurisdictions where lower standards are legislated.

Community: Northland Power takes an active interest in its host communities to ensure they remain vibrant, healthy places to live.

Operational: Northland Power maintains and reinvests in their operating assets to achieve maximum efficiency and economic life.

Health and Safety: Ensuring that our staff has the knowledge, tools and time to work safely is Northland's first priority. Our culture of safety, respect and independence helps to ensure we attract and retain the people that we need to perform.

Financial: Northland Power consistently chooses long term success over short term gain. Northland Power only pursues projects that meet strict return thresholds and have creditworthy customers. As a result, we have paid stable monthly dividends since 1997.

HATCH™

Northland Power has retained Hatch Ltd. to undertake the Renewable Energy Approval (REA) process, subject to the provisions of the Environmental Protection Act Part V.0.1 and Ontario Regulation 359/09. Hatch is an Ontario-based consulting, engineering and management company with operations worldwide and a reputation for excellence acquired over 80 years of continuous service to its clients. Hatch will undertake the REA process from its Niagara Falls, Ontario office.

Solar Technology

A solar photovoltaic (PV) module (or panel, as they are often called) transforms the sun's energy into electrical energy. Silicon, a semi-conductor, is the material that transforms a ray of sunshine into electricity. The silicon is located within a grid (commonly made of metal) that conducts electricity. When the sunlight hits the silicon, electrons flow from the silicon into the grid, thereby producing electricity. The silicon and metallic grid are located beneath a layer of glass to provide weather protection. The glass has a special coating applied to maximize the capture of sunlight by the panel, thereby reducing glare.

Advantages of Solar Energy

Solar power has a multitude of advantages compared to most other power generation technologies.

- First and foremost, the fuel is free. As the cost of many fossil fuels is expected to increase in the future, having solar energy on the grid at a set price will give greater stability to future energy prices.
- Another key benefit is the absence of any green house gas emissions and other pollutants. This ensures that the local community will not have to live with poor air quality or noxious odours.
- Solar PV systems are comprised of safe, common materials that will not affect the lands on which they are located, allowing for easy remediation upon decommissioning.
- Most solar PV systems have no moving parts, unlike almost all other power generation technologies. Having no moving parts reduces the environmental impact, maintenance costs, and noise levels of this type of power generation.
- There is a natural supply/demand match that is inherent to solar power, as the sun rises and sets in parallel with society's general daily electricity demand pattern. This helps mitigate the need for the development of other technologies that traditionally meet peak electricity demand.



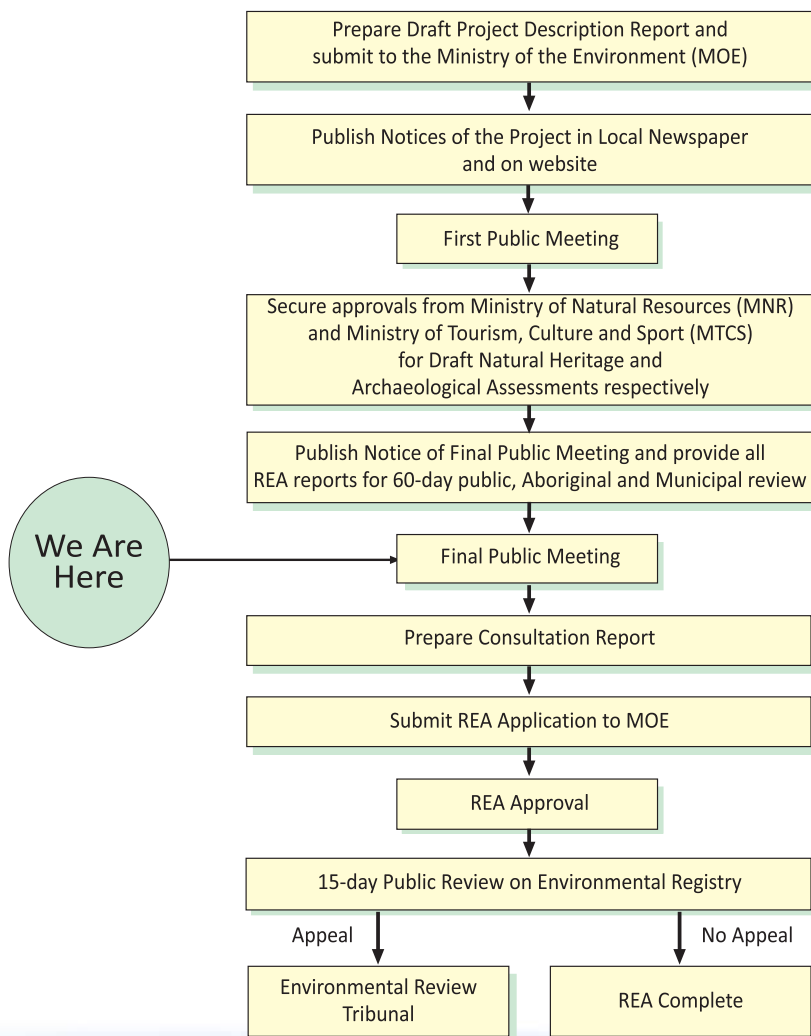
Ontario's Feed-in-Tariff (FIT) program was launched by the Ontario Power Authority on October 1, 2009 to encourage the development of renewable energy resources and to stimulate growth in green technology and renewable power industries.

The Ontario Power Authority awarded 184 FIT contracts to renewable power developers in Ontario on April 8, 2010. Northland Power was awarded a total of 13 contracts for proposed solar ground-mount developments throughout the province. These projects are currently proceeding through the REA process.

Renewable Energy Approval Process

The proposed Projects are subject to the Renewable Energy Approval (REA) process, and the provisions of Part V.0.1 of the Environmental Protection Act and Ontario Regulation 359/09. The REA process entails consideration of environmental aspects, including natural heritage features and water bodies, as well as heritage and archaeological resources. In addition, the REA process includes public, government agency and First Nation consultation.

The main components of the REA process are shown in the flow diagram.



Abitibi, Empire, Martin's Meadows Solar Projects

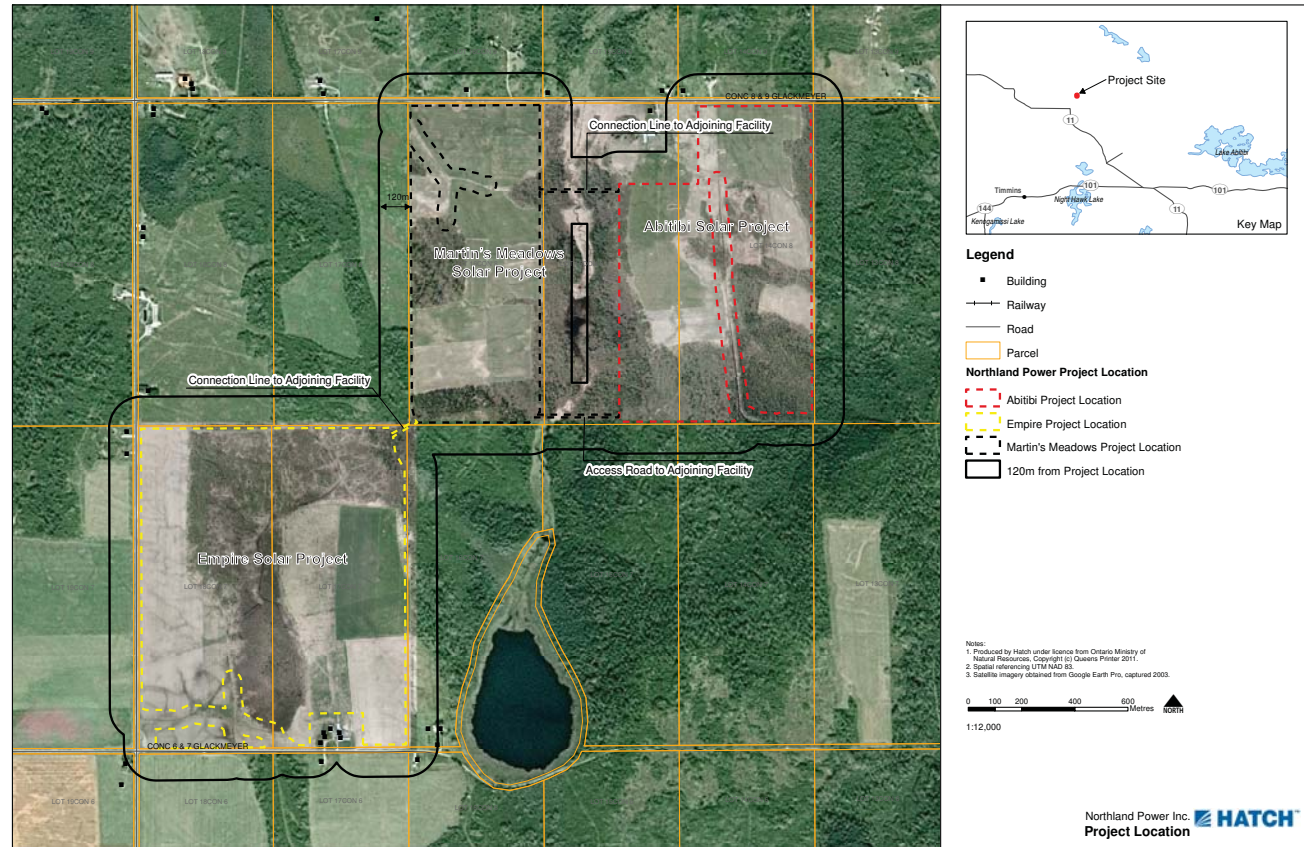
Project Location

Abitibi Solar Project and Martin's Meadows Solar Project are both located south of Concession 8 and 9 Glackmeyer. Empire Solar Project is located north of Concession 6 and 7 Glackmeyer. The proposed Projects, if approved, will be constructed on privately owned lands.

Project Description

The proposed Abitibi, Empire, Martin's Meadows Solar Projects are considered to be Class 3 solar facilities, as defined under the Environmental Protection Act (Act) Part V.0.1 and Ontario Regulation 359/09. Class 3 solar facilities are defined as having a name plate capacity of 10 kilowatts (kW) or greater and the solar panels are mounted on the ground. Specifically, these proposed Projects have nameplate capacities of 10 MW (ac).

The proposed Projects will use crystalline technology photovoltaic (PV) panels installed on ground-mounted rack structures made of steel and aluminum. The project will consist of approximately 50,000 panels and will be designed to optimize energy production.

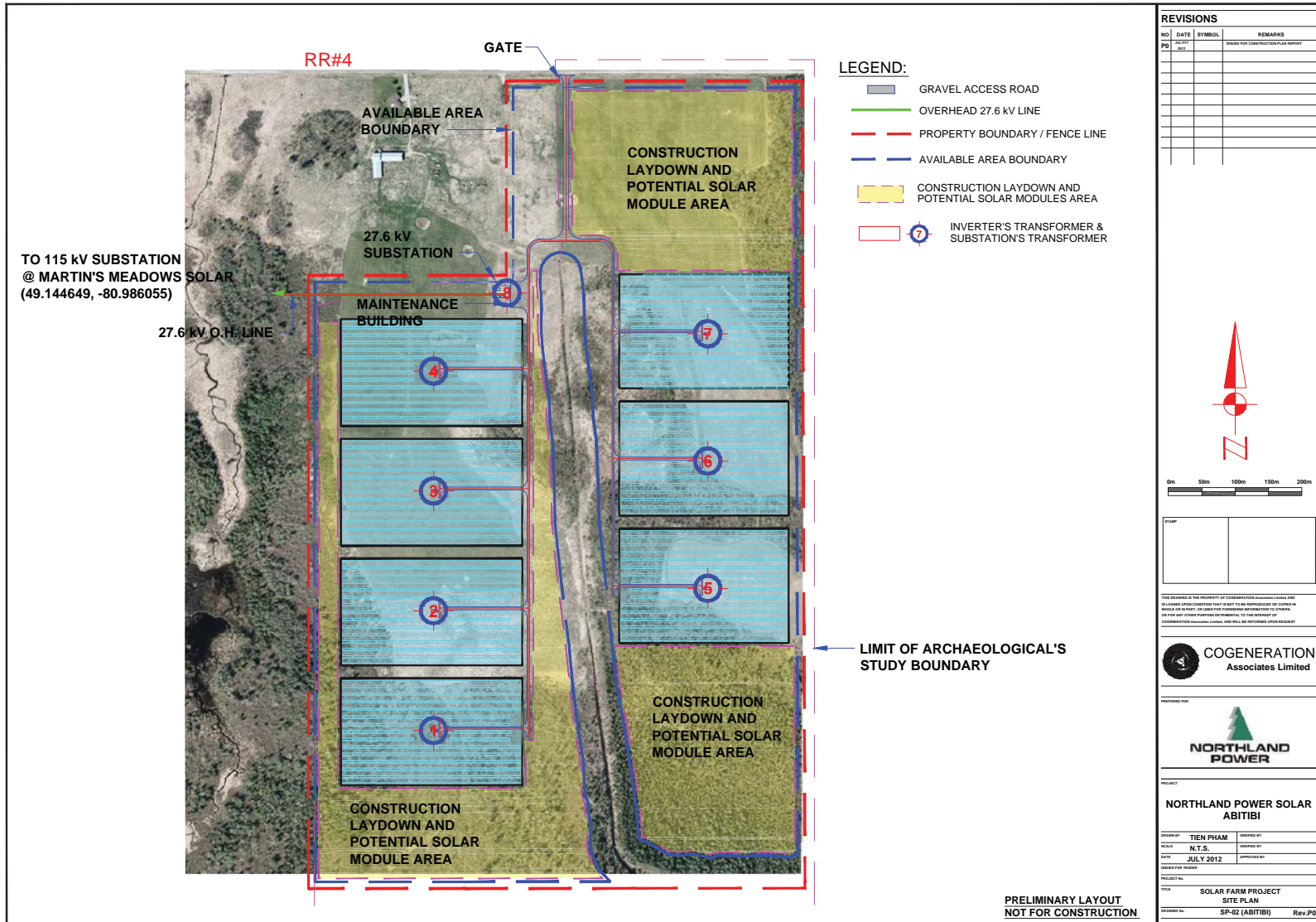


Project Schedule – Abitibi, Empire, Martin's Meadows Solar Projects

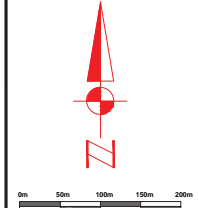
FIT Application – November 2009
Submission of Project Description to MOE – March 2011
FIT Contract Award – April 2010
First Public Meeting – July 2011
Final Public Meeting – August 2012
REA Application Submission – September 2012
REA Received – February 2013
Start of Construction – Early 2013
Commercial Operation Date – Fall 2013

For more information regarding these Projects please visit the Project website at: northlandpower.ca

Abitibi Solar Project - Site Layout

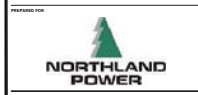


REVISIONS			
NO	DATE	SYMBOL	REMARKS
01			ISSUED FOR CONSTRUCTION PLAN PERMIT



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PROJECT
NORTHLAND POWER SOLAR ABITIBI

DESIGNED BY: TIEN PHAM CHECKED BY:
 DRAWN BY: N.T.S. VERIFIED BY:
 DATE: JULY 2012 APPROVED BY:

PROJECT No.:
 TITLE: SOLAR FARM PROJECT
 SITE PLAN
 DRAWING No.: SP-02 (ABITIBI) Rev. 00

PRELIMINARY LAYOUT
 NOT FOR CONSTRUCTION

Construction

Construction of the proposed Project is anticipated to start following the appropriate approvals, in 2013. The construction take approximately 6-9 months and will consist of:

- *Site Preparation*
- *Construction and Installation of the Facility*
- *Testing and Commissioning*
- *Site Restoration*

Each day construction will normally begin at 7:00 am and end at 5:00 pm. If a longer construction day becomes required, the Project will follow local requirements and minimize impacts to the local community.

Site preparation refers to activities such as:

- Surveying/staking, site clearing and grubbing (where required)
- Construction of access roads and drainage systems
- Installation of fencing, and construction of a laydown area

It is anticipated that these activities will require several months to complete

Construction and installation of the facility includes:

- Pouring of the concrete foundations for electrical equipment
- Installation of electrical equipment such as inverters and transformers, interconnection cable trenching
- Installation of PV panel supports and the racking systems
- Placement of PV panels

Testing and commissioning will be performed prior to start-up and connection to the power grid. Solar modules, inverters, collection system, and substation will be checked for system continuity, reliability, and performance standards.

Site restoration following construction the main objective will be to (i) establish ground cover and drainage within the solar panel footprint and (ii) re-instate temporarily disturbed areas to stable conditions. All construction material, equipment, temporary facilities, and waste will be removed from the site. Revegetation will include planting of native plants and hydro-seeding where required.

Operation

Following construction, the operations phase is expected to commence in Fall of 2013. Operations will consist of routine maintenance inspections and general up keep of the Project (e.g., panel cleaning and mowing). Otherwise, no on-site staff will be required.

Visual inspections of the transformers and erosion and sedimentation control measures are to occur monthly. Panel cleaning may or may not be required, depending on weather conditions, and if required, any water used will be brought to the site. No chemicals will be used for cleaning.

Vegetation, including underneath the panels, will be selected to minimize maintenance activities (e.g., mowing) and to provide ground cover to both protect and enhance the soil and to provide wildlife habitat. Presently, a mix of low growing, weed-resistant turf type fescues is proposed. Herbicides will not be used to control vegetation growth during operations.

Site security will consist of fencing and limited lighting near the entrance of the facility. Fencing will consist of a 2 meter high wire fence, with barb wire along the top of the fence.

For more information, please refer to the Project's *Design and Operation Report*



Decommissioning

It is anticipated that the Project will have a useful life of at least 20 years, the length of the existing FIT contract, which can be extended with proper maintenance, component replacement and repowering. Decommissioning will occur at the end of the useful life and consist of:

- *Equipment dismantling and removal*
- *Site restoration*

Equipment dismantling and removal will include the PV modules, electrical equipment, access roads and foundations as well as any other facility equipment. Equipment and material may be salvaged for resale, scrap value or disposal, depending on market conditions.

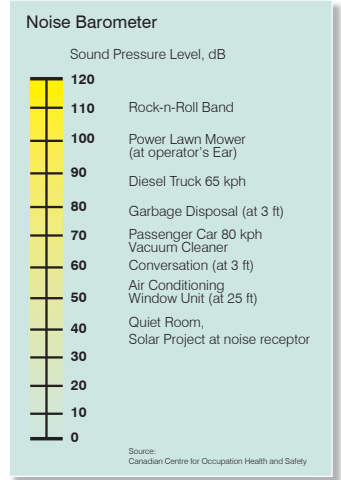
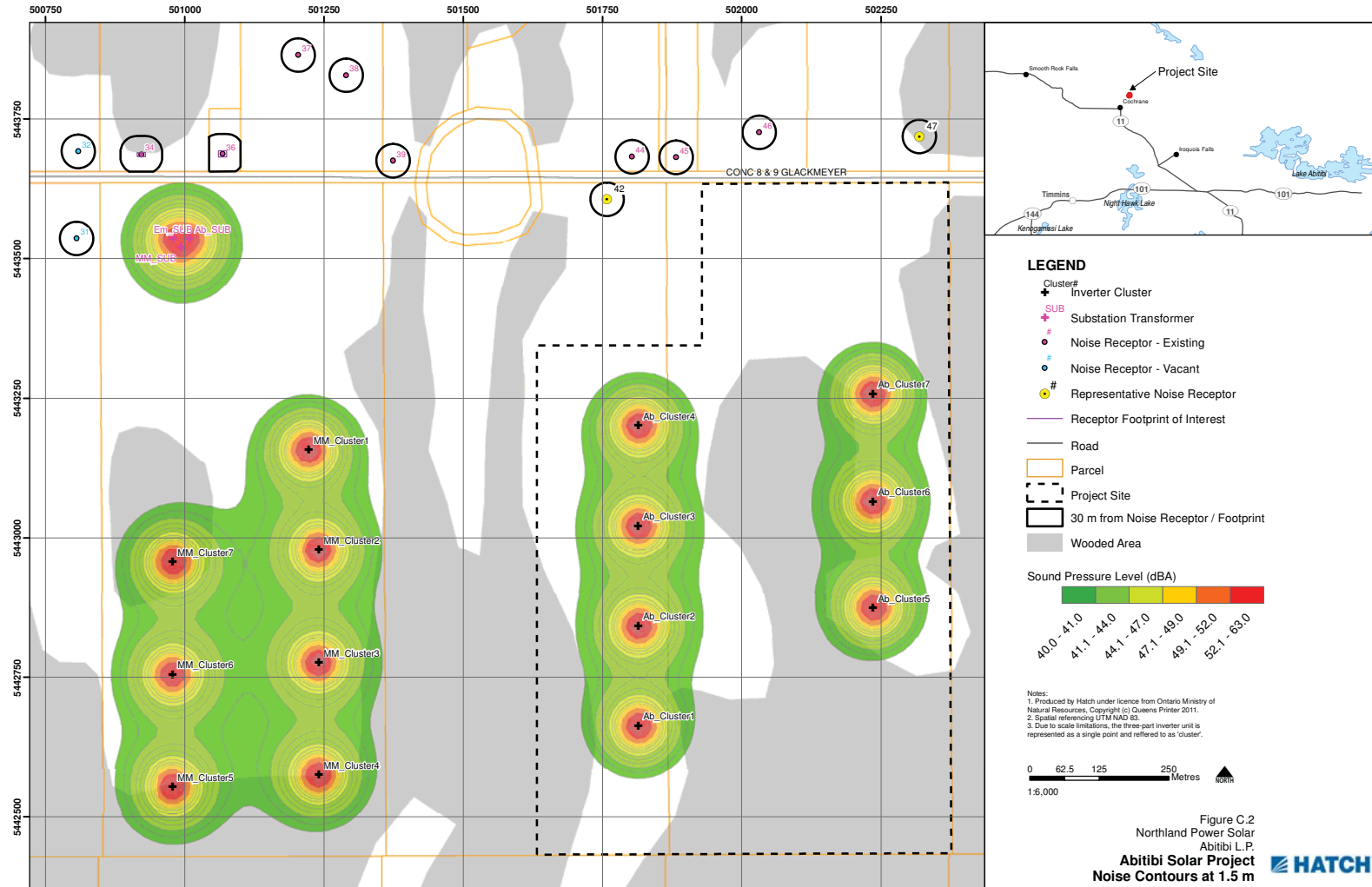
Site restoration will consist of the following, subject to environmental requirements and the wishes of the landowner:

- Any damage to existing tile drainage system, if applicable, will be repaired/restored
- Any excavation and/or trench will be backfilled and graded to existing contours
- Should the subsoil be negatively affected and compromise the future productive use of the land, the following will be implemented: first the topsoil will be removed and stockpiled; then the subsoil may be ripped and tilled prior to grading it; topsoil will then be replaced and revegetated
- Should the soil be negatively affected and compromise the future productive use of the land, nutrients may be added or fertilizers deployed
- Topsoil and compost will be blended where required, spread and replaced to original depth
- Hydroseeding with approved seed mixture and mulching during the appropriate seasonal conditions

For more information, please refer to the Project's *Decommissioning Plan Report*



Noise - Abitibi Solar Project



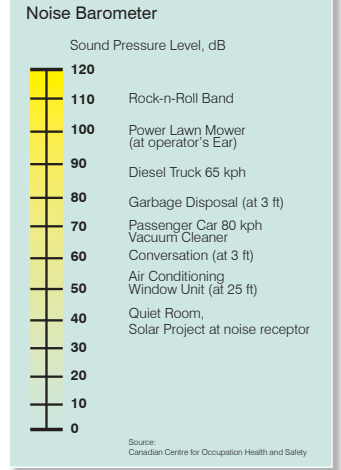
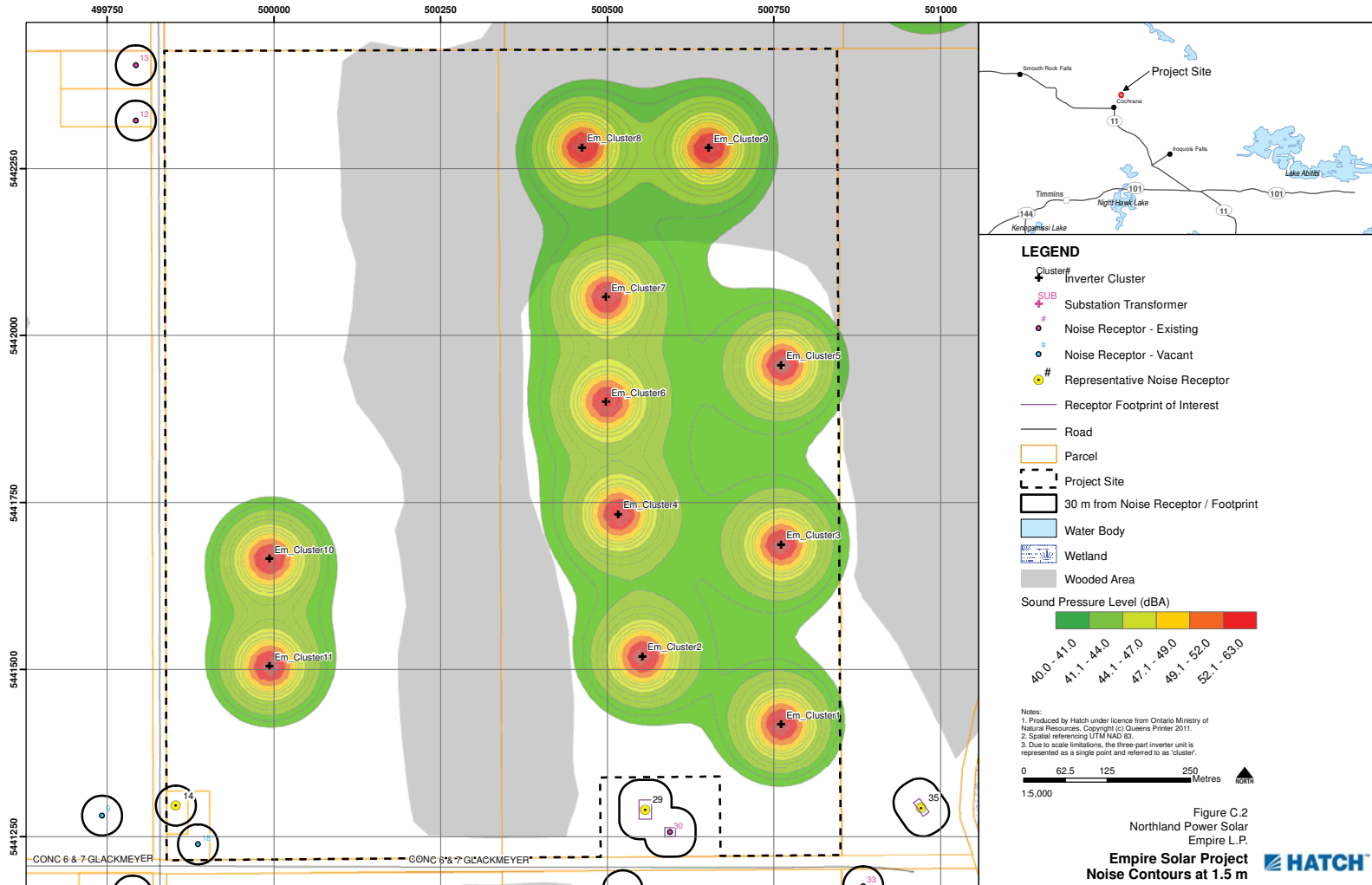
Notes:
 1. Produced by Hatch under licence from Ontario Ministry of Natural Resources, Copyright (c) Queens Printer 2011.
 2. Spatial referencing UTM NAD 83.
 3. Due to scale limitations, the three-part inverter unit is represented as a single point and referred to as 'cluster'.



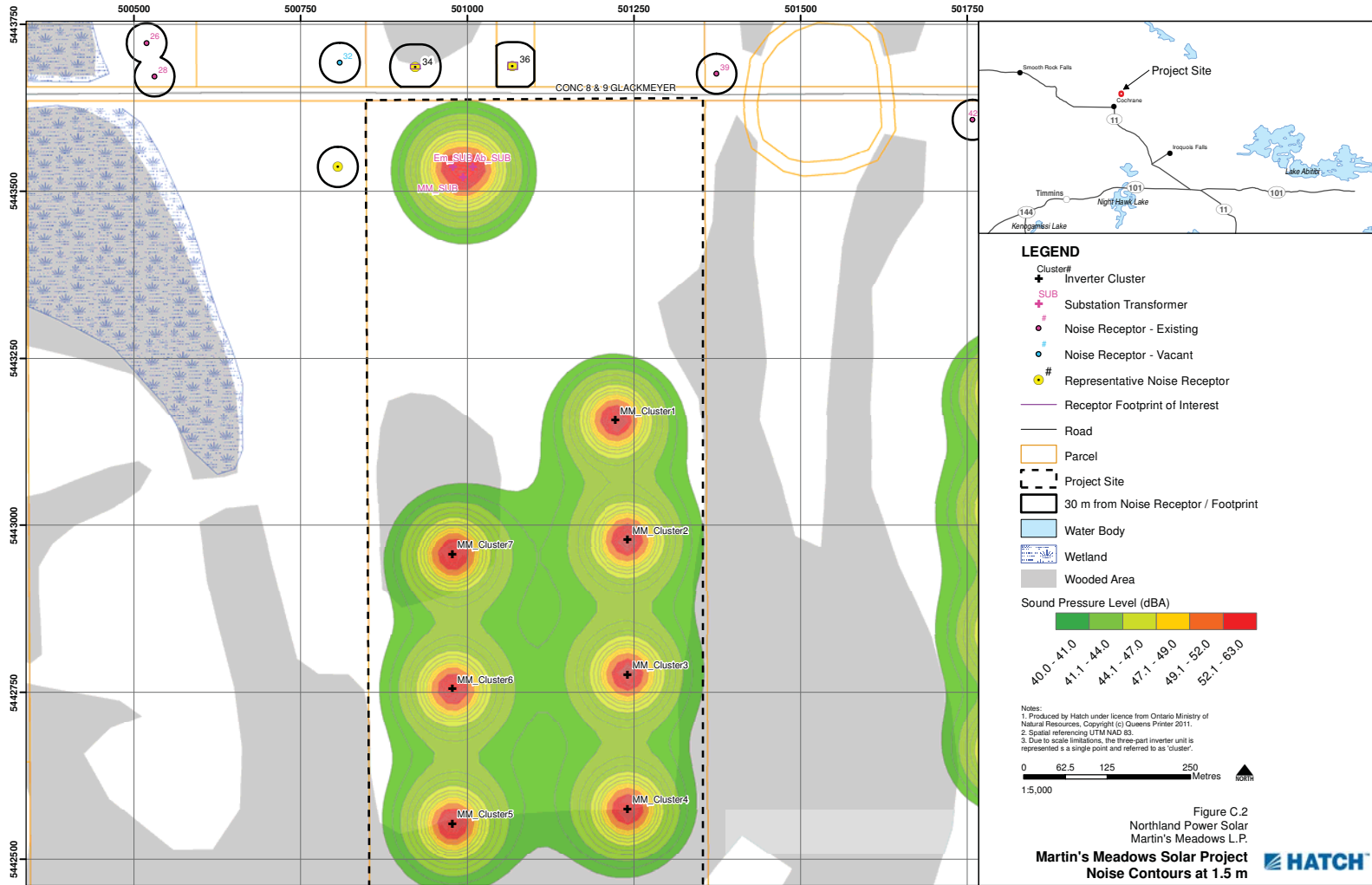
Figure C.2
 Northland Power Solar
 Abitibi L.P.
 Abitibi Solar Project
 Noise Contours at 1.5 m



Noise - Empire Solar Project



Noise - Martin's Meadows Solar Project



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Abitibi, Empire, Martin's Meadows Solar Projects

Natural Heritage Assessment for Solar Panel Locations

Abitibi Solar Project

- Project location is composed of mainly agricultural fields with occurrences of provincially significant wetlands communities on and within 120 m.
- Significant wildlife habitat for waterfowl nesting habitat and wetlands providing amphibian breeding habitat are located on and within 120 m.
- Significant animal movement corridor is associated with Monroe Creek and its riparian habitat.

Empire Solar Project

- Project location is composed of mainly agricultural fields with occurrences of significant wetlands and woodlands located on and within 120 m.
- Provincially significant wetland complex has been identified on and within 120 m of the Project location, which extends for several hundred metres from the Project location.

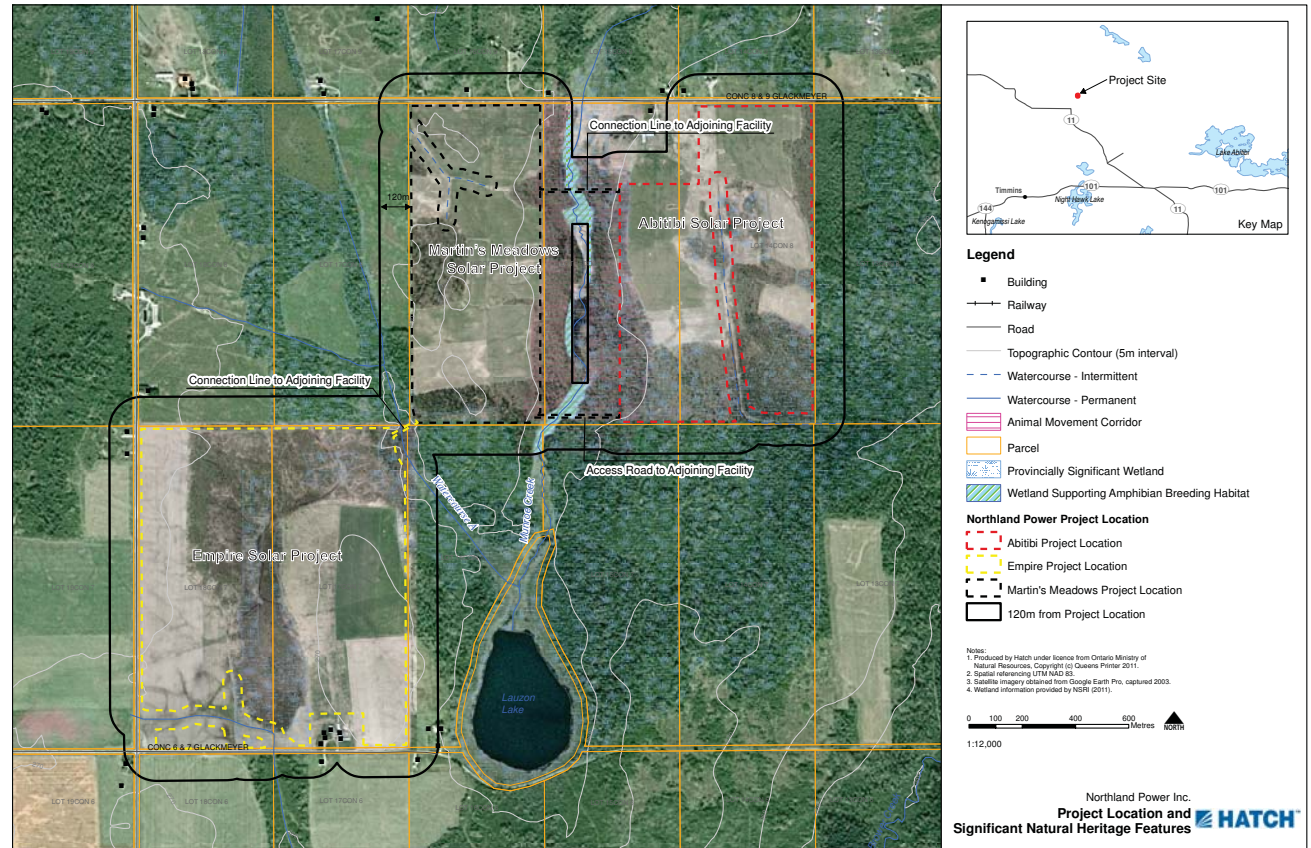
Martin's Meadow's Solar Project

- Project location is composed of mainly agricultural fields with occurrences of provincially significant wetlands and woodlands located on and within 120 m.
- Significant wildlife habitat providing amphibian breeding habitat are located around Monroe Creek.
- Animal movement corridor associated with the creek and riparian habitat.

Mitigation Measures for Natural Heritage Features

- Avoidance of encroachment, and provision of setbacks, from many of the significant features.
- Demarcation of work areas to prevent encroachment beyond designated sites.
- Construction outside of bird breeding season, where possible.
- Visual search following completion of fence for trapped animals.
- Visual monitoring of work areas, equipment and access roads prior to start of each work day to search for wildlife species.

There will be no change to the existing environment outside of the Project location.



Abitibi, Empire, Martin's Meadows Solar Projects

Water Body Assessment for Solar Panel Locations

Abitibi Solar Project

- Munroe Creek is a permanent water body located within 120 m west of the Project that flows through wetland communities (i.e., narrow leaved emergent marsh, tall shrub swamp) and woodlands dominated by trembling aspen, black spruce and balsam fir.
- Watercourse A is both an intermittent (for the initial 100 m) and permanent stream that originates in an agricultural field on the north-central portion of the Project.

Empire Solar Project

- An unnamed water body originates in the open field approximately 30 m west of the Project and flows in an easterly direction.
- A tributary of Monroe Creek originates to the north of the Project location in an agricultural field and drains through a wooded area in the northeast corner of the property, before draining into Lauzon Lake, approximately 350 m east of the Project.

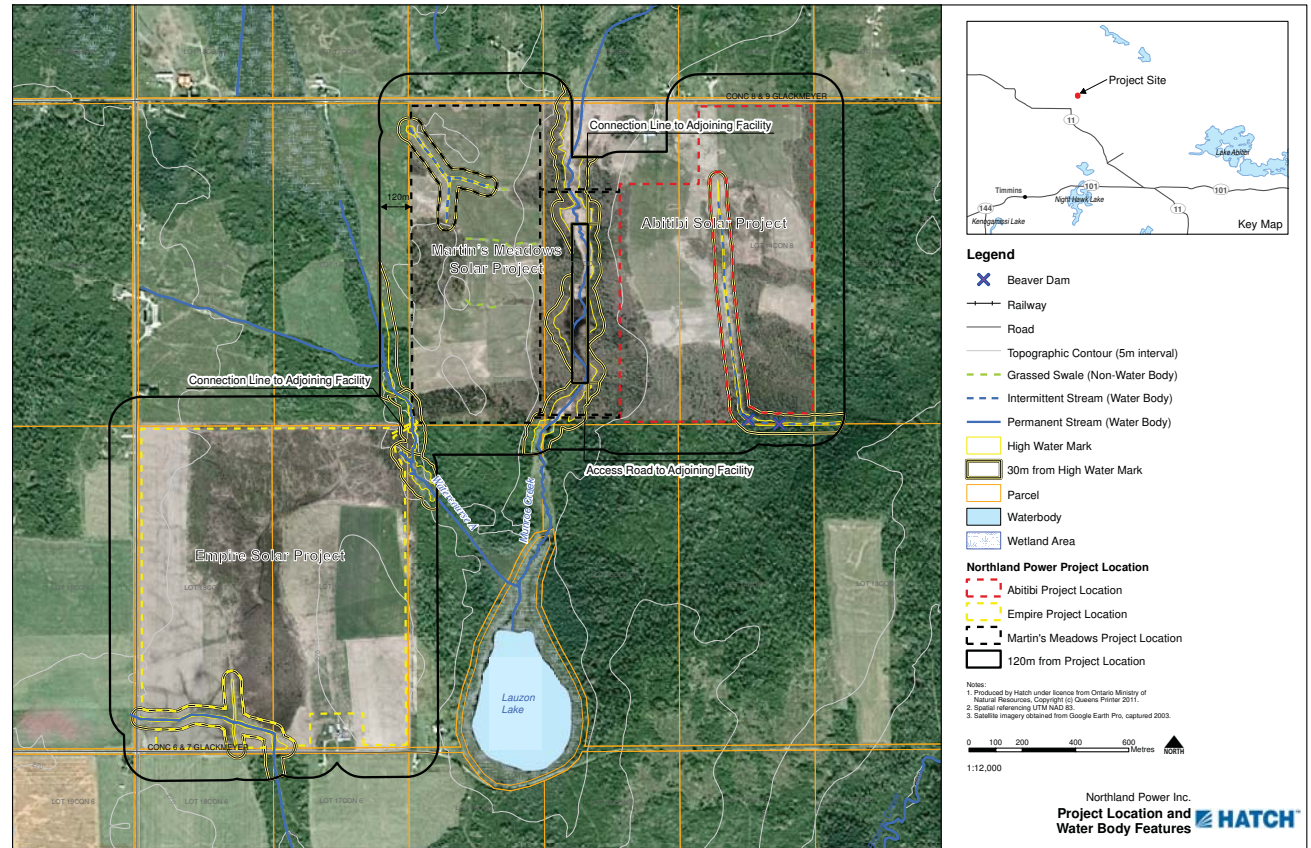
Martin's Meadow's Solar Project

- Munroe Creek is a permanent stream located in a relatively wide, low lying valley, with abundant wetland vegetation, surrounding by wooded areas adjacent to the agricultural fields east of the Project.
- An intermittent tributary of Munroe Creek passes within 30 m of the southwest corner of the Project.

Mitigation Measures for Natural Heritage Features

- Sediment and erosion controls (e.g., silt fencing, site stabilization and construction phasing).
- Stormwater management plans (e.g., site re-vegetation, enhanced vegetated swales).
- Spill prevention and response measures (e.g., handling protocols, secured storage areas, clean up materials on hand).
- Dust control measures (e.g., watering of access roads, tarping of stock piles).

There will be no change to the existing environment outside of the Project location.



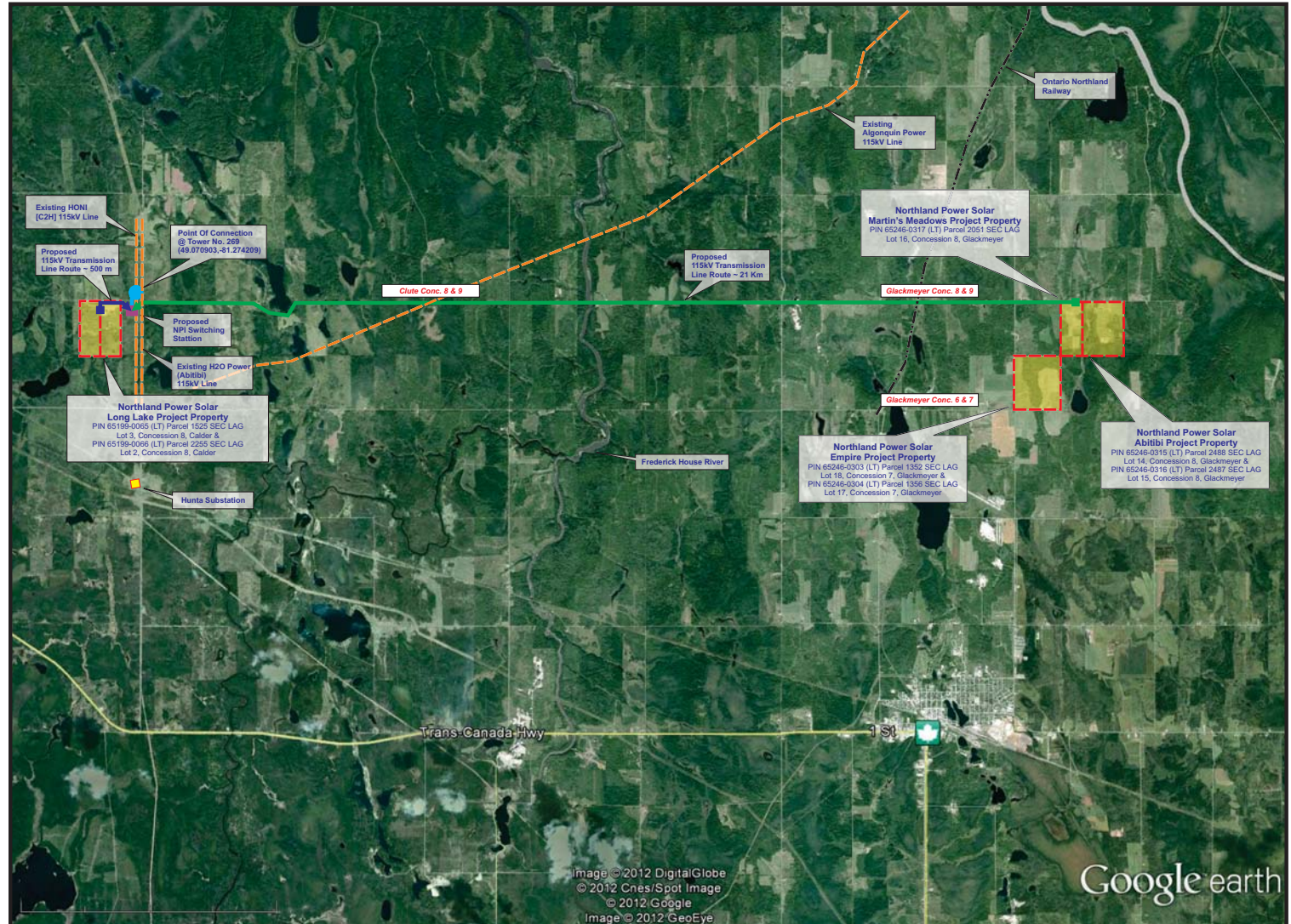
115kV Transmission Line

In order to connect the Abitibi, Empire and Martin's Meadows Solar proposed Projects to the existing Hydro One transmission system circuit (C2H), Northland will construct an approximately 22 km 115 kV single-circuit transmission line. The line will run from the three step up transformers located on the Martin's Meadows Project location to the connection point located near the intersection of Highway 688 and Clute Concession 8 & 9 that is located north of Hunta. In addition, there will be an approximately 800 metre section of 115 kV line to connect the Long Lake Solar Project to tie in this project.

Additional information on the transmission line is provided below:

- There will be a small switch station (approximately 75m x 75 m) on either privately owned or Crown (MNR) land at the connection point
- The line will be above ground, except where it crosses the existing Hydro One and H2O transmission lines, where it will be buried underground
- The 115 kV transmission line will be supported through either single or double poles.
- The transmission will be largely contained within municipal road rights-of-way, but some private property will be crossed. Northland may approach some private landowners for small easements for guy wires.
- The transmission line will also cross the Ontario Northland Railway (ONR), an existing Algonquin Power transmission line, and several watercourses including the Frederick House River.

Northland is also permitting the transmission line through parallel process with the Ontario Energy Board (such as "Leave to Construct") and Ministry of Natural Resources (such as land use permits, easements, and work permits under the Public Lands Act; a Forest Resource License will be required for removal of trees from Crown Land, if needed).



Environmental Features

Waterbodies

A total of 38 water bodies are crossed by the transmission line, including 14 permanent waterbodies and 24 intermittent waterbodies.

Mitigation Measures

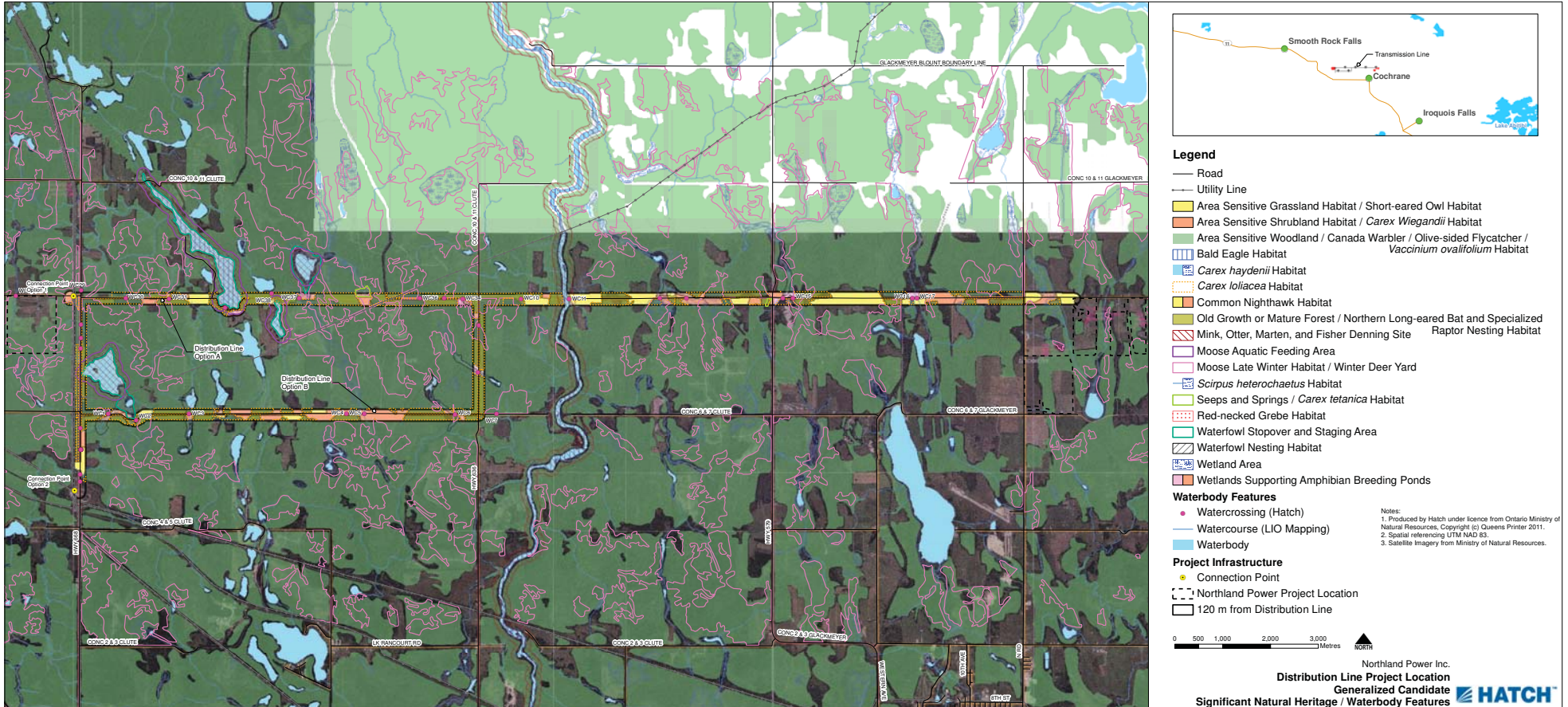
- Mitigation measures outlined in the Ontario Operational Statement for Overhead Line Construction, will be used, mitigation measures include:
- timing machinery fording to avoid sensitive reproductive periods, including those of cold water species such as Brook Trout, which may be present in the small watercourses along the proposed transmission line route
 - operating heavy equipment from outside the watercourse and minimizing disturbance to the watercourse banks
 - avoid working during wet or rainy conditions
 - stabilizing waste materials (e.g., stripped topsoil, grubbed material) above the high water mark

Natural Heritage

The proposed transmission line contains a variety of wildlife habitats as well as occurrences of significant wetlands, animal movement corridors are associated with several waterbodies.

Mitigation Measures

- Construction to be timed to occur outside of the breeding wildlife period (May through July), with preference for construction to occur within the winter months to minimize potential impact to vegetation communities within the right of way.
- Trees will be felled into previously cleared areas, and cleared and grubbed material will be piled away from remnant vegetation prior to removal.
- When waterbodies are crossed measures outlined in the "Ontario Operational Statement for Overhead Line Construction" (e.g., transmission poles or other structures to not be placed below the normal high water mark, heavy equipment to be operated from outside the watercourse to minimize disturbance to the watercourse banks) is to be used.



Next Steps

- Following the completion of this Final Public Meeting, all comments and concerns will be incorporated into the REA Project Documents and the Project proposals. Then a submission to the Ministry of the Environment will be made to obtain a Renewable Energy Approval.
- Following the acceptance of the REA submission, the Ministry of the Environment will post on the Environmental Registry;
(<http://www.ebr.gov.on.ca/ERS-WEB-External/>) a proposal notice for public comment and review. Comments can then be submitted directly to the Ministry of the Environment.
- Lastly, the Ministry of the Environment provides a decision notice of the Projects. If no appeals are received, the Project can move forward with construction, pending any further required approvals.



**Thank you for attending this
Final Public Meeting**

*Your opinion is
important to us*

**Please Fill Out A
Comment Form**

Welcome to the Public Meeting for the Long Lake Solar Project and 115-kV Transmission Line



August 21, 2012



Agenda

Presentation – 4:30 pm to 5:00 pm

- Introduction
- Long Lake Solar Project
- Transmission Line
- Next Steps

Question and Answer Period – 5:00 pm to 5:30 pm

Open House – 5:30 pm to 6:30 pm

Northland

Introduction

A large-scale solar farm with rows of blue photovoltaic panels under a clear blue sky. The panels are arranged in neat, parallel rows, extending into the distance. The sky is a vibrant, clear blue, and the overall scene is bright and sunny.

Purpose of this Public Meeting

- To communicate project details and to solicit stakeholder input
- You Can:
 - Ask Questions
 - Obtain information
 - Gain a greater understanding of the Project and the REA process
 - Express any comments or concern
- Comments or Concerns can be provided:
 - In a comment form
 - Through discussions with the representatives in attendance
 - Or contact the Environmental Coordinator, Sean Male, after the meeting

Northland Power Inc.

Northland Power develops and operates clean and green power generation facilities, mainly in the provinces of Ontario and Quebec. Our facilities produce about 870 MW of electricity. Northland Power has been in business since 1987 and has been publicly traded since 1997.

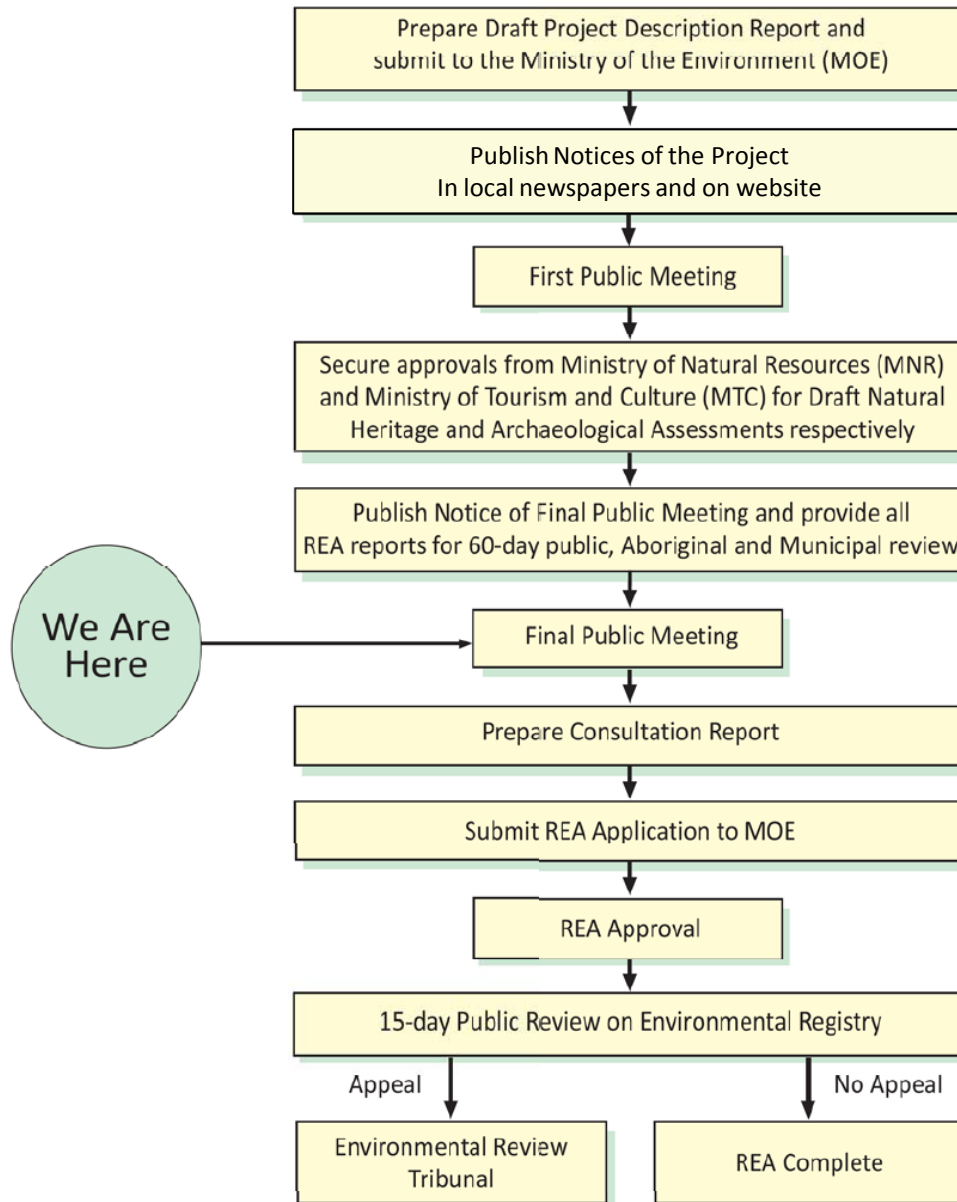
Sustainability is a core value of Northland Power Inc. Sustainability has many dimensions including:

- Environmental
- Community
- Health and Safety
- Financial
- Operational

Benefits of Solar Energy

- Advantages of solar energy include:
 - Fuel is free
 - No pollutants or green house gases
 - Components are safe and non-toxic
 - Low environmental impact due to low maintenance costs
 - Power production matches supply and demand patterns

Renewable Energy Approval (REA) Process

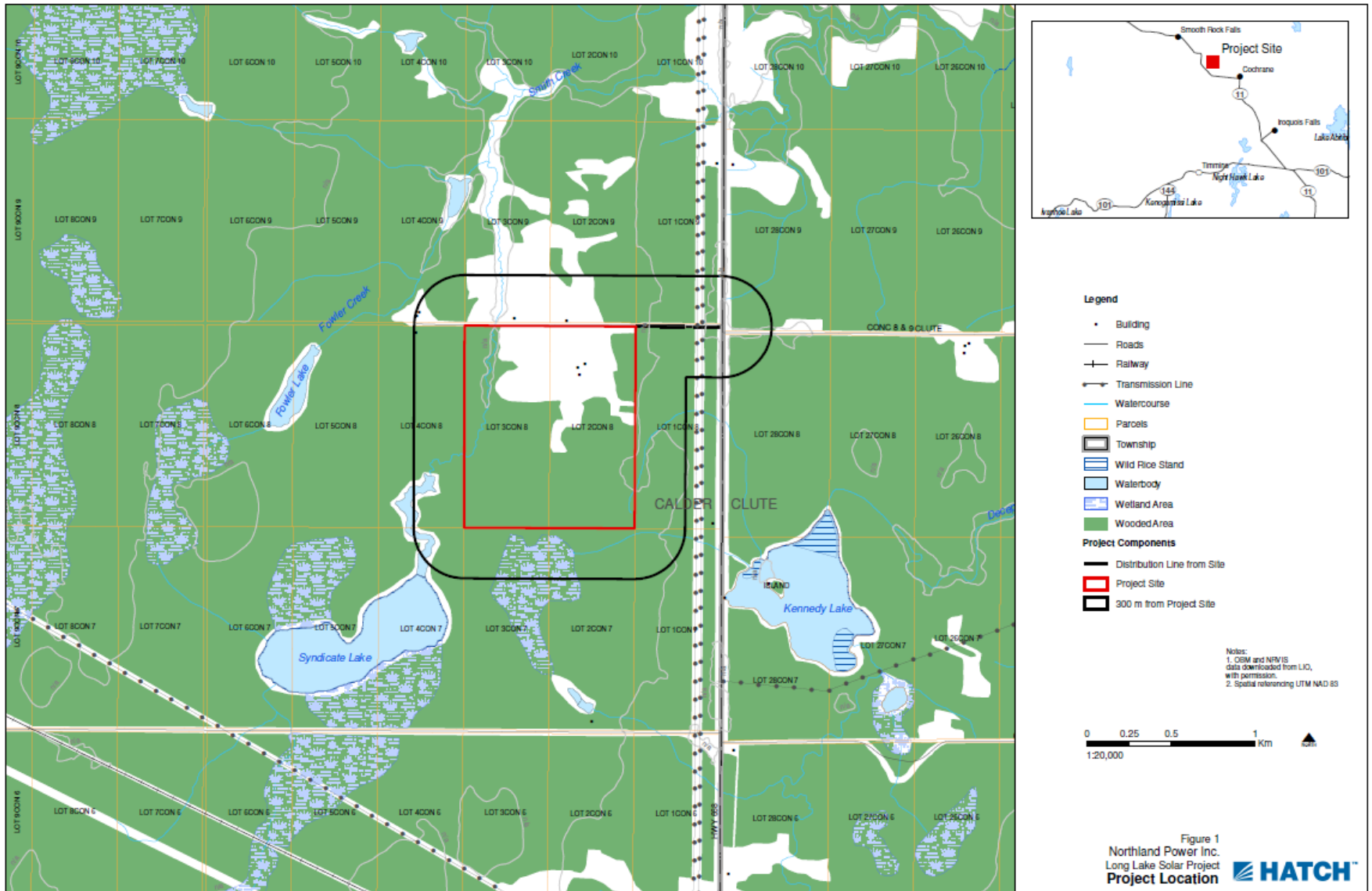


Northland

Long Lake Solar Project

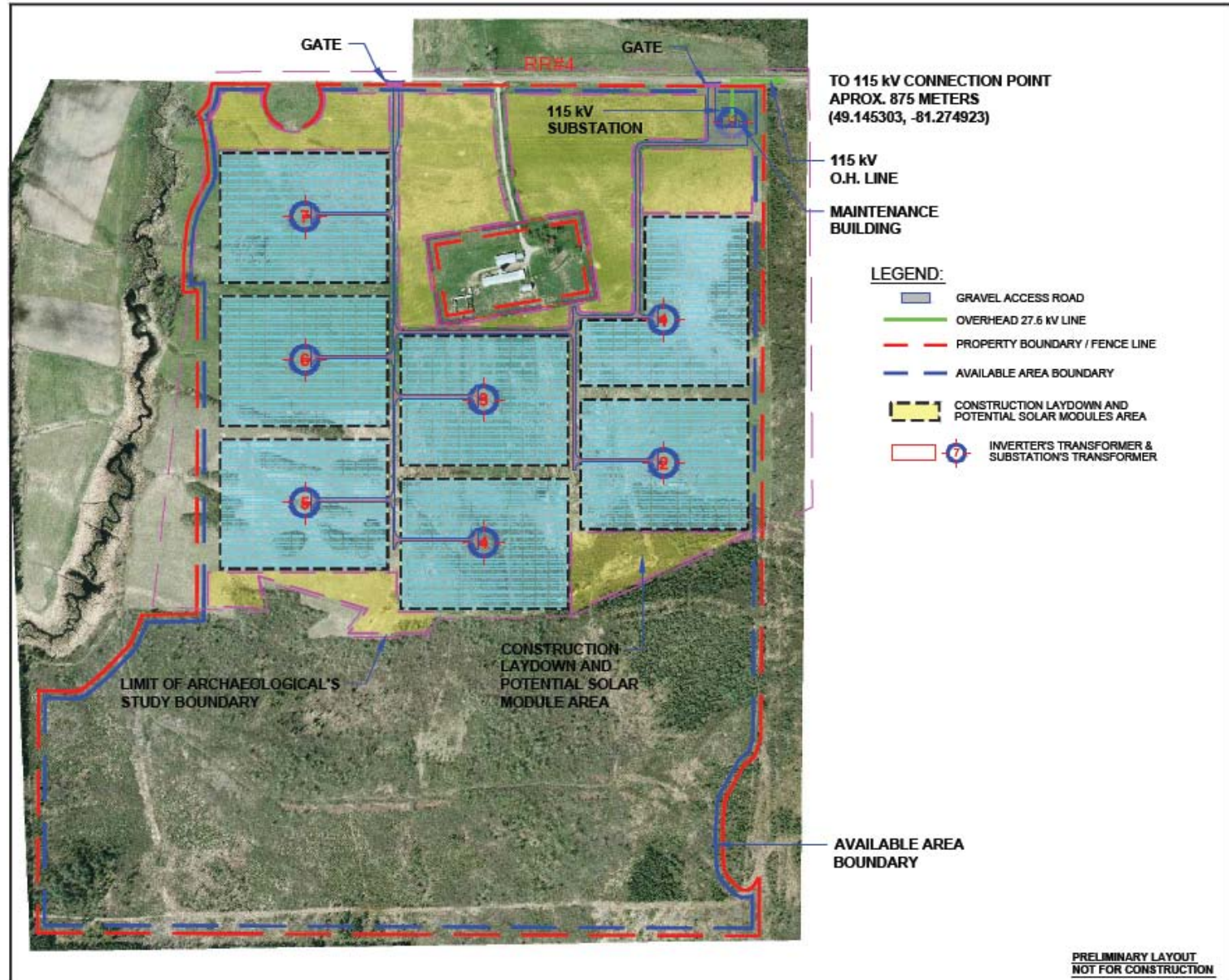


Long Lake – Project Location



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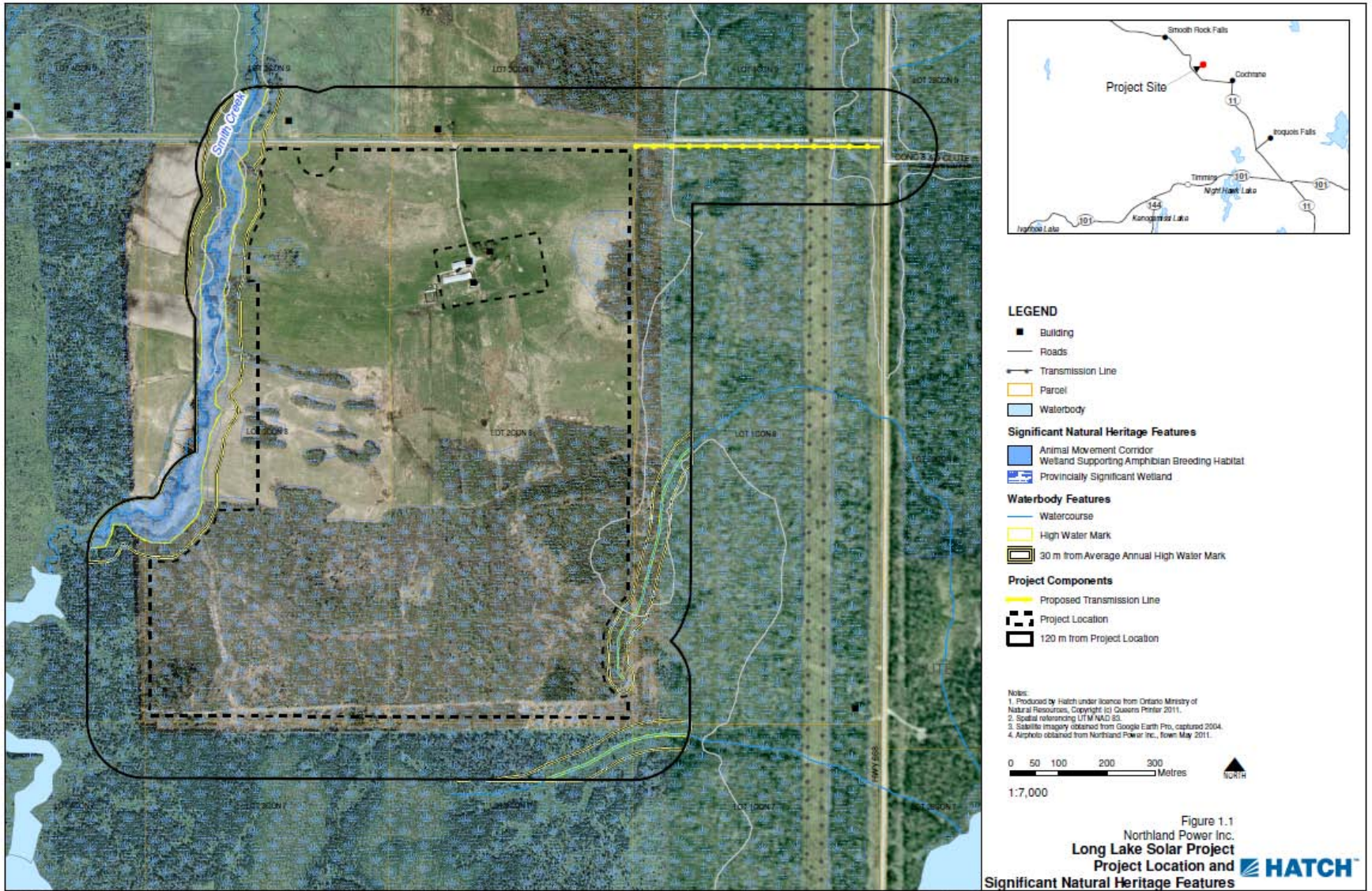
Long Lake – Proposed Project Layout



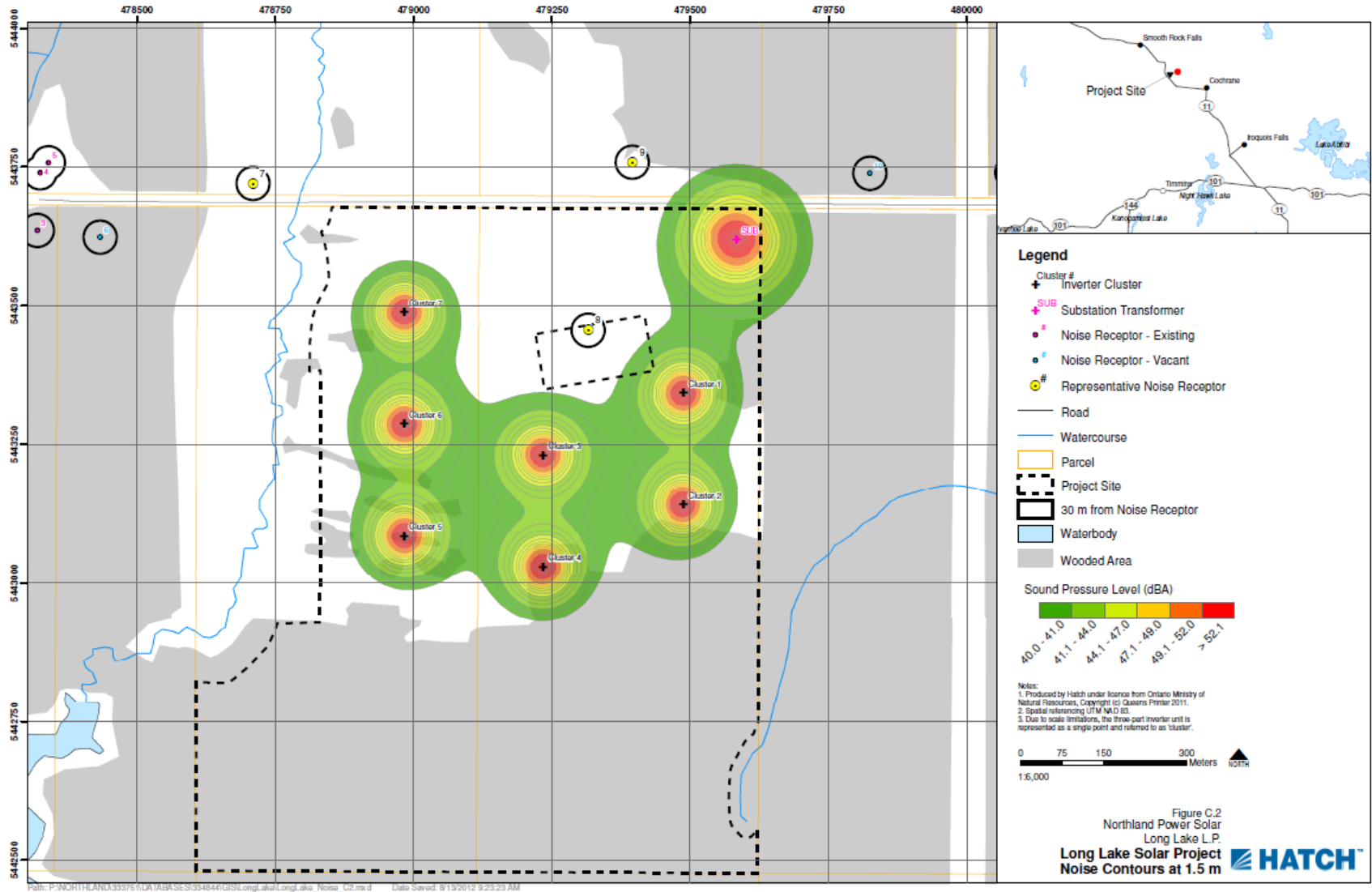
Long Lake - Anticipated Project Schedule

- Submission of Renewable Energy Approval – September 2012
- Renewable Energy Approval Received – February 2013
- Construction Begins – February 2013
- Construction Complete – September 2013

Long Lake – Environmental Features



Long Lake – Noise Assessment

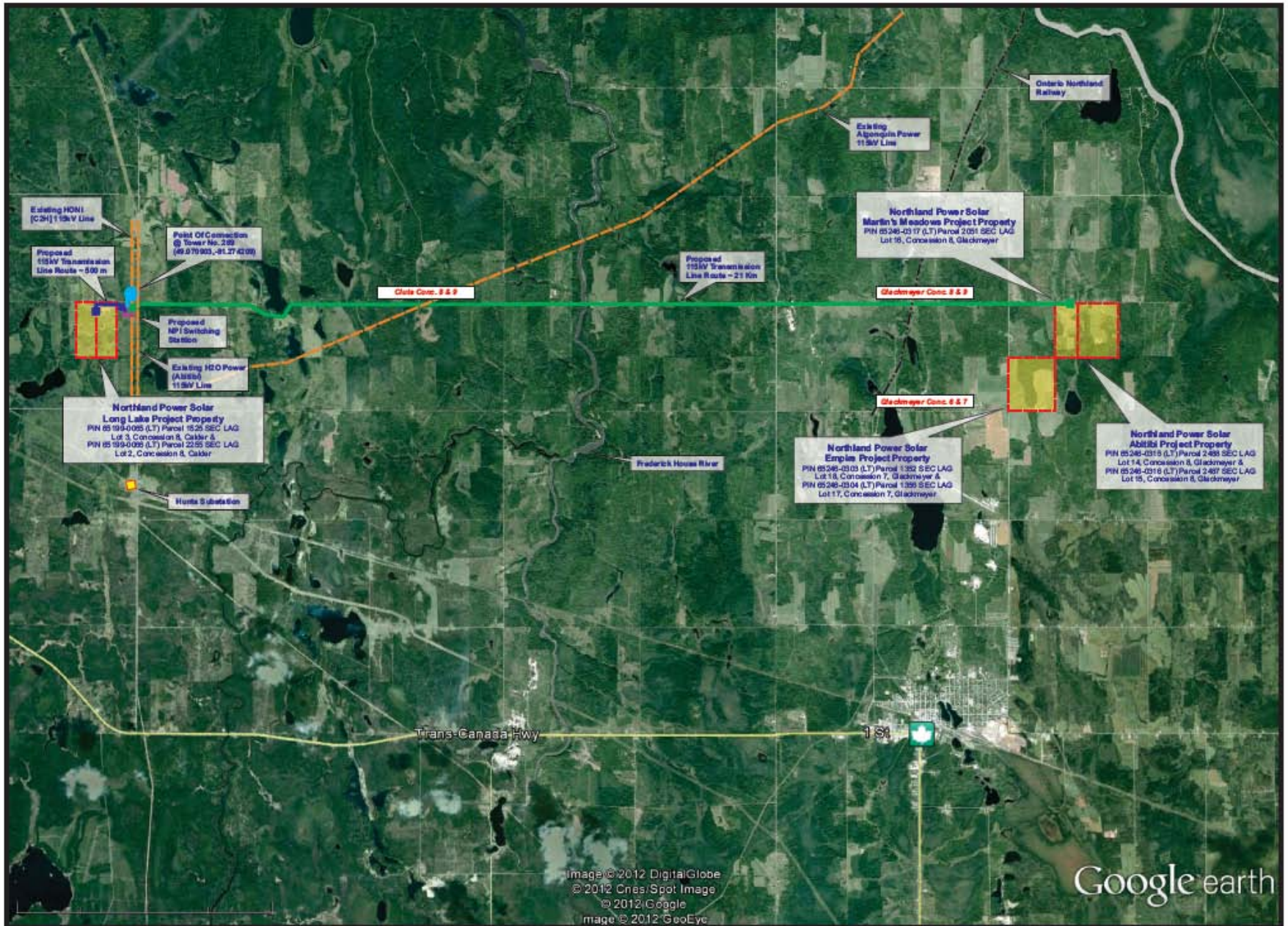


Northland

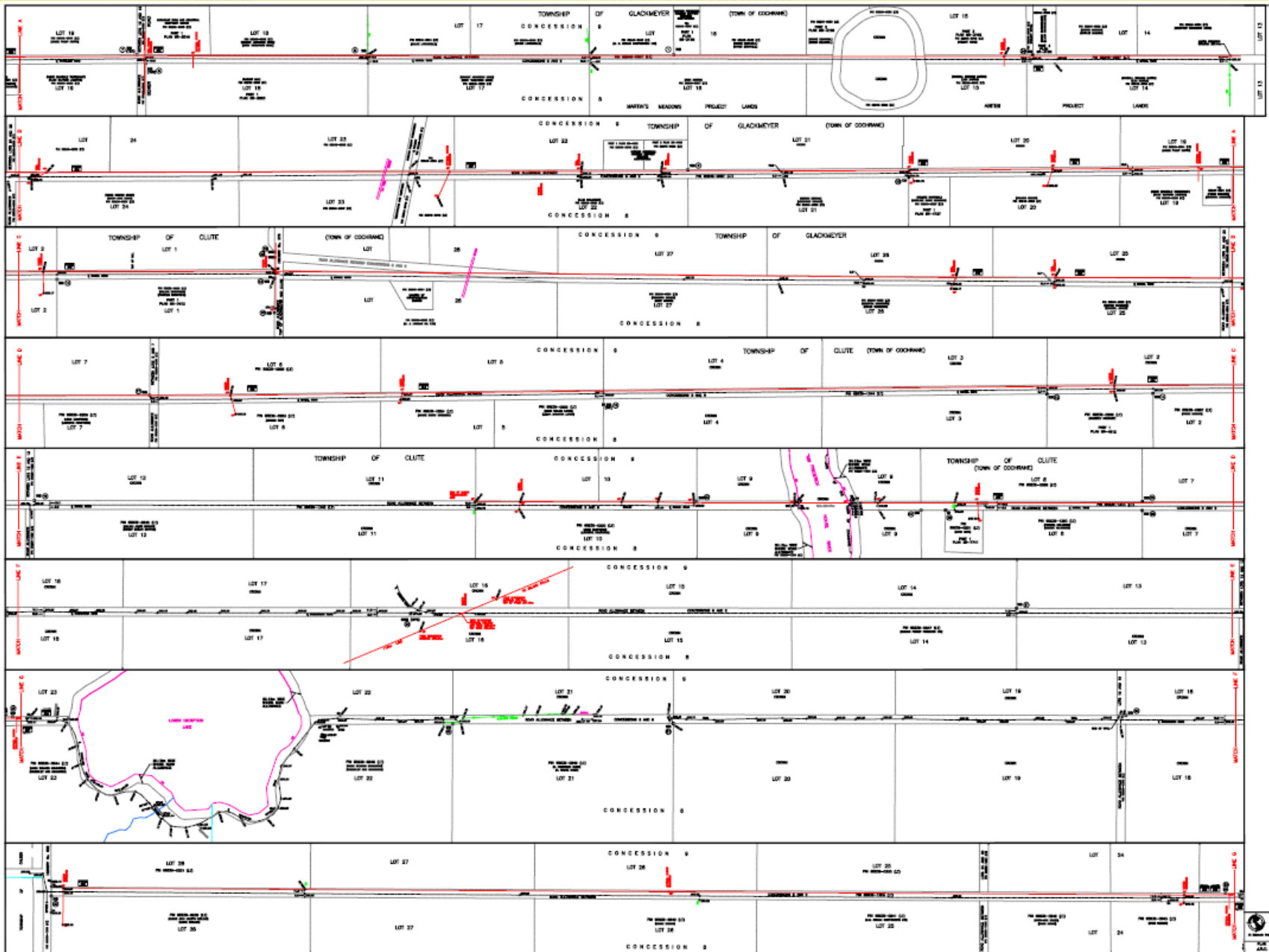


115 kV Transmission Line

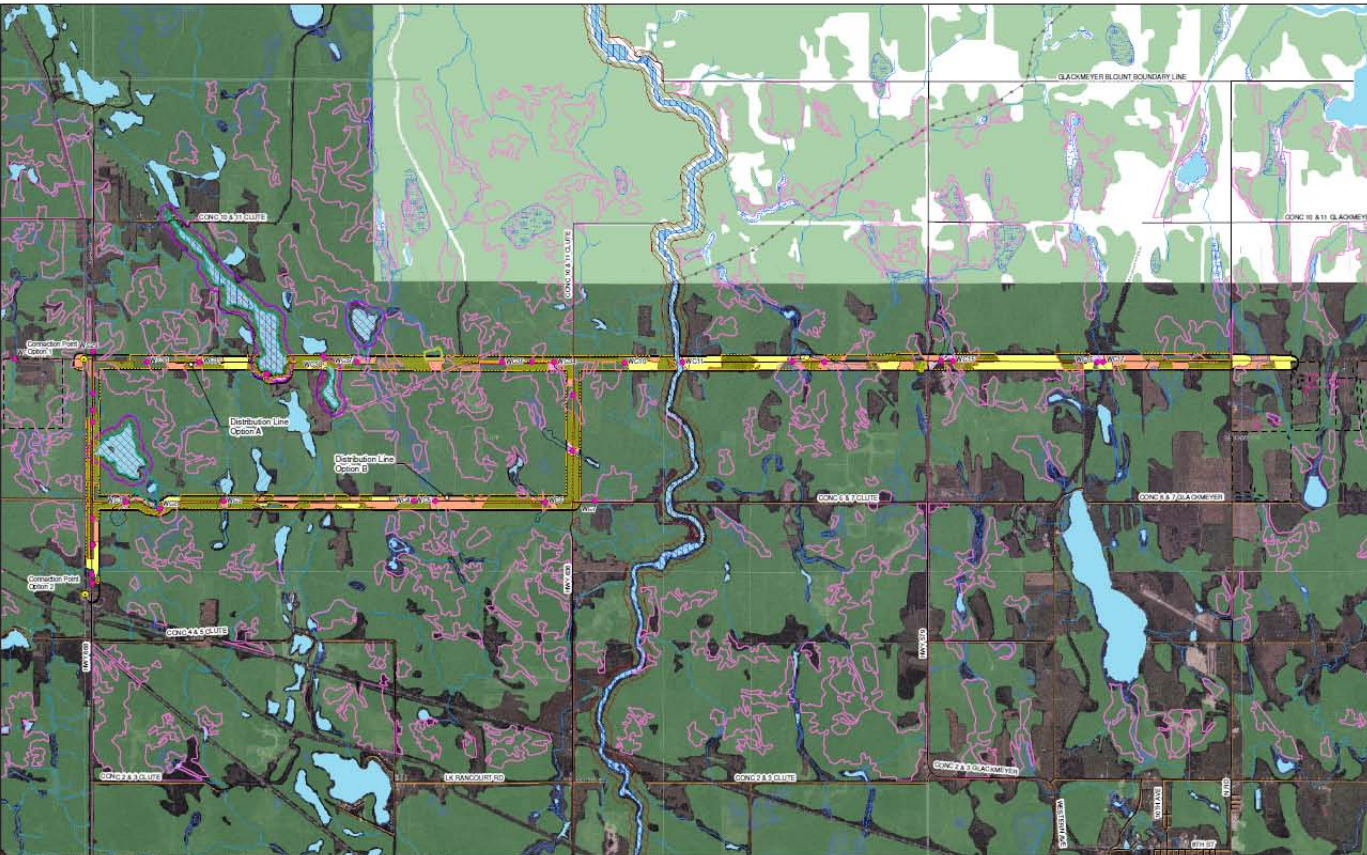
115 kV Transmission Line – Preferred Route



115 kV Transmission Line – Legal Survey



115kV Transmission Line – Environmental Features



Legend

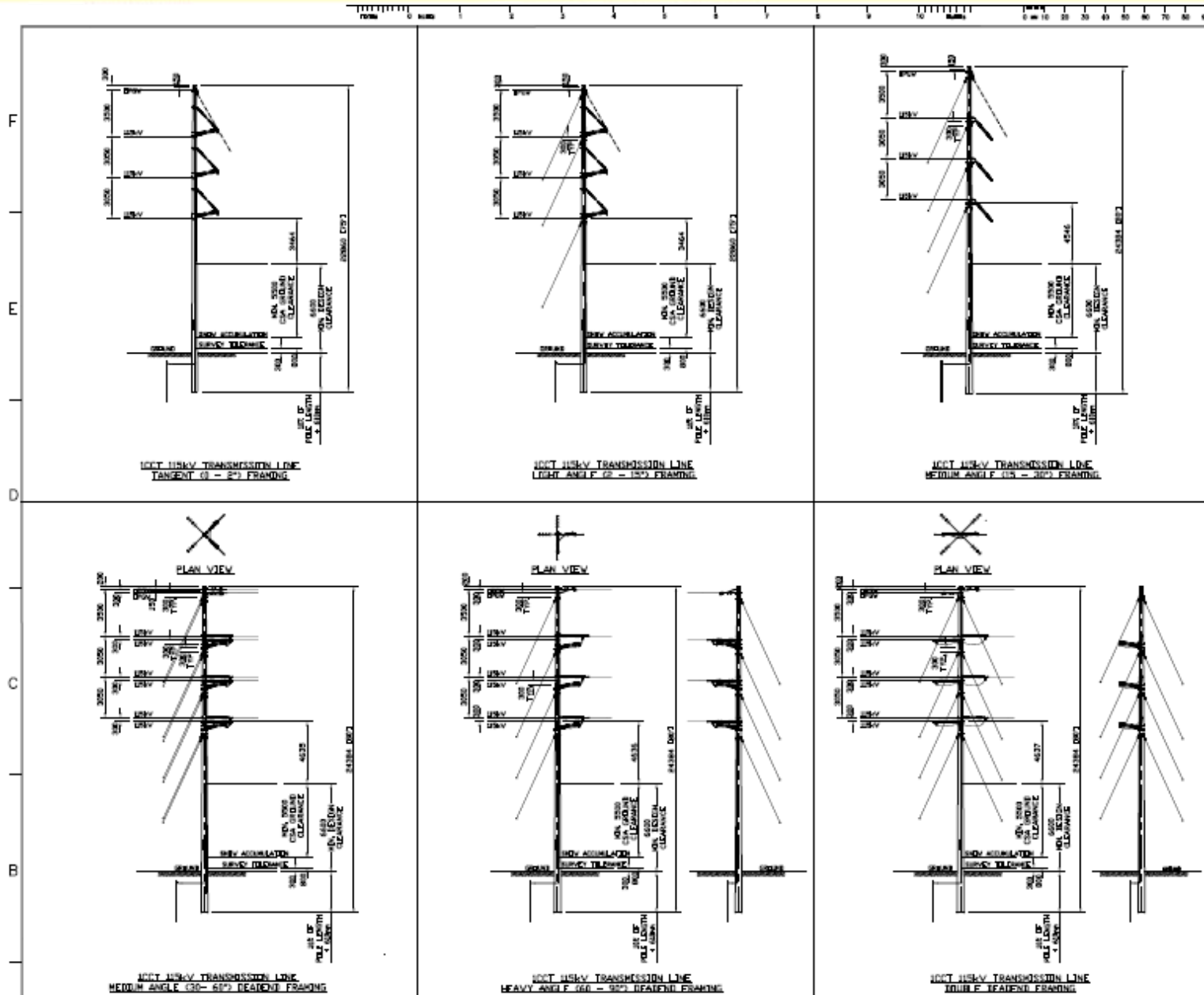
- Road
 - Utility Line
 - Area Sensitive Grassland Habitat / Short-eared Owl Habitat
 - Area Sensitive Shrubland Habitat / *Carex Wiegandii* Habitat
 - Area Sensitive Woodland / Canada Warbler / Olive-sided Flycatcher / *Vaccinium ovalifolium* Habitat
 - Bald Eagle Habitat
 - Carex haydenii* Habitat
 - Carex liliacea* Habitat
 - Common Nighthawk Habitat
 - Old Growth or Mature Forest / Northern Long-eared Bat and Specialized Mink, Otter, Marten, and Fisher Denning Site Raptor Nesting Habitat
 - Moose Aquatic Feeding Area
 - Moose Late Winter Habitat / Winter Deer Yard
 - Scirpus heterochaetus* Habitat
 - Seeps and Springs / *Carex tetanica* Habitat
 - Red-necked Grebe Habitat
 - Waterfowl Stopover and Staging Area
 - Waterfowl Nesting Habitat
 - Wetland Area
 - Wetlands Supporting Amphibian Breeding Ponds
- Waterbody Features**
- Watercrossing (Hatch)
 - Watercourse (LIO Mapping)
 - Waterbody
- Project Infrastructure**
- Connection Point
 - Northland Power Project Location
 - 120 m from Distribution Line

Notes:
 1. Produced by Hatch under license from Ontario Ministry of Natural Resources. Copyright © Queens Printer 2011.
 2. Spatial referencing UTM NAD 83.
 3. Satellite Imagery from Ministry of Natural Resources.

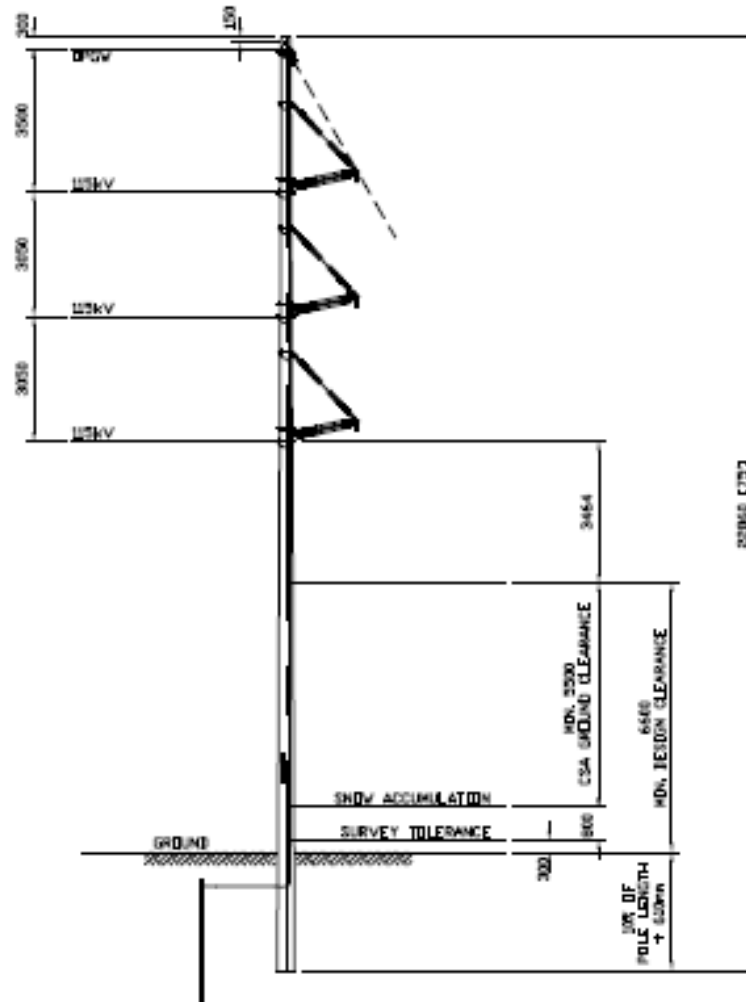


Northland Power Inc.
 Distribution Line Project Location
 Generalized Candidate
 Significant Natural Heritage / Waterbody Features **HATCH**

115kV Transmission Line – Structure Summary

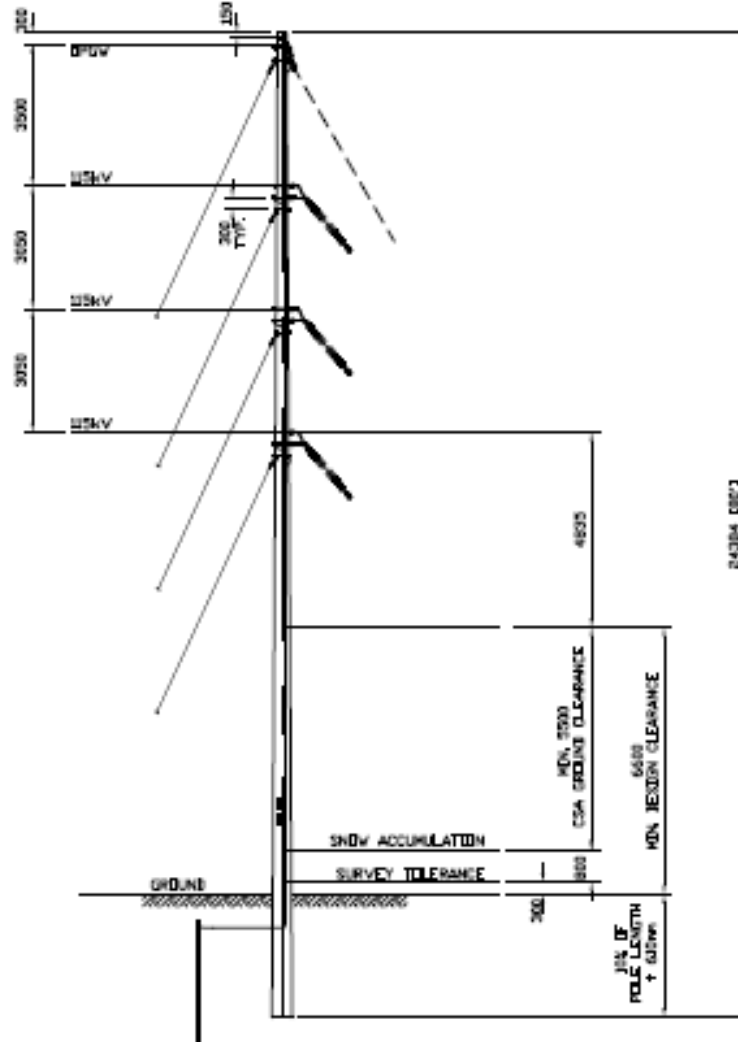


115kV Transmission Line – Design Option



10CT 115kV TRANSMISSION LINE
TANGENT (0 - 2°) FRAMING

115kV Transmission Line – Design Option



1CCT 115kV TRANSMISSION LINE
MEDIUM ANGLE (15 - 30°) FRAMING

Northland



Next Steps

Next Steps

- A consultation report will be prepared documenting results of this Public meeting
- An application for a Renewable Energy Approval will be submitted to the Ministry of Environment
- A Notice of Environmental Registry Posting will be published
- A Decision Notice will be issued from the Ministry of Environment

**For more
information, please
visit
northlandpower.ca**

Questions?

www.northlandpower.ca

