



Long Lake Solar Farm

January 13, 2014

The Ministry of the Environment
Director, Environmental Assessment and Approvals Branch
2 St. Clair Avenue West, Floor 12A,
Toronto, ON M4V 1L5

Attention: Mr. Vic Schroter, Director, EPA Section 47.5

**Re: Long Lake Solar Farm Project
Renewable Energy Approval (REA) #8430-9AEQ6M - Amendment**

Northland Power Inc's Long Lake Solar Farm has recently just commenced site clear activities, preparing for construction in the near future. This amendment request is to submit three Archaeological studies which were conducted in the fall of 2013. As part of completing design discussions with Hydro One, a minor change to the sub-station layout is required and also additional construction preparation/lay-down land has been requested by our Contractor. These lands were already included in the main Project lands, but had not been assessed fully by the archaeologist.

Please find attached: an amendment cover letter/report (modification document) on Hatch letterhead dated December 17, 2013, which includes a description of the amendment request, revised site plans and a completed Application form; an application fee cheque in the amount of \$300; and three reports completed by T. Keith Powers, of The Archaeologists Inc.

A copy of this amendment application has been couriered to the MOE, District Office, as well.

Should you have any questions about the attached documents, please feel free to contact me at 416 662 1437.

Yours truly,

Jim Mulvale
Manager EH&S
Northland Power Inc.
Jim.mulvale@northlandpower.ca

Cc: MOE Timmins District Manager

Attach: Hatch Cover Letter Report/Modifications Document
which includes Renewable Energy Approval Amendment Application
Stage 1,2 and 3 Archaeological Reports (under Tabs 1, 2 and 3)

December 17, 2013

Agatha Garcia-Wright, Director
Ministry of the Environment
2 St. Clair Avenue, Floor 12A
Toronto, ON M4V 1L5

Dear Ms. Garcia-Wright:

**Subject: Proposed Project Design Changes
Renewable Energy Approval (No. 8430-9AEQ6M)
Long Lake Solar Project**

As you are aware, Northland Power Solar Long Lake L.P., has begun construction of the Long Lake Solar Project facility, located on Calder Concession Road 8/9, in the unorganized township of Calder, near the community of Hunta.

The Ministry of the Environment (MOE) issued a Renewable Energy Approval (REA) for the Project (No. 8430-9AEQ6M) on August 29, 2013. Recently, Northland Power decided to complete some additional archaeological surveys as described below:

- Stage 1 and 2 archaeological surveys along the proposed transmission line. Previous surveys had been restricted to the public right-of-way, and the line has now been relocated approximately 50 m south onto private lands in order to reduce the extent of overhead line required for the Project and to remove any potential or perceived encumbrance on public road right-of-ways.
- Stage 1 and 2 archaeological surveys within the southern portion of the Project location. Though permitted in the REA for the Project (as shown in the NHA and REA reports), previous designs did not show any Project works occurring within this part of the Project location. This area may now be used for construction laydown areas/stockpiling of excess native materials resulting from site grading activities.
- Stage 3 archaeological survey along the northern boundary of the Project location in order to remove a previous setback from an archaeological resource identified during the Stage 2 assessment.

As such, Northland Power Solar Long Lake L.P. would like to submit an amendment to the REA to take these additional archaeological surveys and proposed changes into consideration.

This letter summarizes the proposed changes to the Project, including the rationale for each change, and identifies the amendments to each of the supporting documents prepared for the REA application to incorporate the proposed Project changes. This letter also provides an assessment of the potential for new negative effects not addressed in the initial REA supporting documentation.

1. Proposed Project Changes

The proposed changes are as follows:

- Use of the southern portion of the Project location for construction laydown areas, or temporary stockpiling of excess native materials resulting from site grading.
- Relocation of the transmission line approximately 50 m south from the public right-of-way onto private lands.
- Use of the previously identified area of archaeological concern along the northern boundary of the Project location.

It should be noted that Project reports, including the natural heritage and water body assessments, considered that the full Project location would be used, including the lands in the southern portion of the Project location.

Table 1.1 provides a description of each proposed change, the rationale for the change, an assessment of potential for altered environmental effects and any additional mitigation or monitoring required.

Table 1.1 Table of Proposed Changes, Rationale for Change, Altered Effects and Additional Mitigation Measures and Monitoring

| Change | Change Details | Rationale for Change | Altered Effect | Additional Mitigation Required | Additional Environmental Effects Monitoring |
|--|--|--|---|--------------------------------|---|
| Use of the southern portion of the Project location | Portions of the southern part of the Project location may be cleared for construction laydown areas, or stockpiling of excess native materials resulting from site grading | Discussions with the Engineering Procurement and Construction (EPC) Contractor have indicated a desire to be able to use this area for laydown of construction materials. In addition, detailed geotechnical reports have identified peat across the Project location, which will need to be removed in order to permit construction. This will be temporarily stockpiled in the southern portion of the Project location. | Use of this area was previously considered within the various Project reports, outside of the archaeological assessment. No archaeological features were found during the course of the investigations and no additional survey work is required. | N/A | N/A |
| Use of the area of archaeological concern along the northern boundary of the Project | The area of archaeological concern was previously to be protected by a setback, however now a Stage 3 assessment | The area will be used for temporary construction laydown. | Though this area was previously shown on Project mapping as outside of the Project location, this area was assessed as part of site | N/A | N/A |

| Change | Change Details | Rationale for Change | Altered Effect | Additional Mitigation Required | Additional Environmental Effects Monitoring |
|--|--|---|---|--------------------------------|---|
| | was completed. | | investigations and there would be no change in impacts to identified natural heritage or water body features. The results of the Stage 3 assessment were that the area was of no further cultural heritage value or interest and should not be subject to Stage 4 mitigation. | | |
| Relocation of the transmission line onto private lands | The line has been relocated approximately 50 m south | Relocating the line will result in a decrease in the amount of overhead line required for the Project by allowing the line to run straight from the transformer substation to the switchyard at the connection point. | There are no new natural heritage features or waterbodies found in or within 120 m of this revised location that were not previously assessed. No archaeological features were found during the course of the investigations and no additional survey work is required. | None | None |

As noted above, there are no additional net negative environmental effects.

Additional archaeological assessments were conducted in order to survey these additional areas. No archaeological findings were discovered during the course of the surveys and the Ministry of Tourism, Culture and Sport (MTCS) provided acceptance letters for these investigations (Appendix A). Further, additional project documentation was provided to the Ontario Ministry of Natural Resources (Appendix B).

Based on the above, the proposed changes are determined to be Project Design Changes (Minor).

2. Summary of Revisions to REA Supporting Documents

This section identifies the amendments to each of the supporting documents submitted with the original REA Application that are required to address the proposed Project changes.

In order to assess the archaeological potential, additional archaeological assessment reports were completed, as listed below:

- Stage 1 and 2 Archaeological Assessment for Long Lake Solar Project (Additional Lands) – Solar Switching Station Part of Lot 2 & 3, Concession 8, Town of Calder, District of Cochrane, Ontario – dated November 12, 2013.
- Stage 1 and 2 Archaeological Assessment for Long Lake Solar Project – Solar Switching Station Part of Lot 1 & 28, Concessions 8 & 9, Town of Calder, District of Cochrane, Ontario – dated September 16, 2013.
- Stage 3 Site-Specific Archaeological Assessment of Historic Site DgHi-1, Northland Power – Long Lake Solar Project, Part Lot 2, Concession 8, Township of Calder, District of Cochrane, Ontario.

These reports are provided under separate cover.

As previously mentioned, the REA supporting documents assessed the southern portion of the Project location. Therefore, revisions as a result of this proposed change are limited to the site layout. This change, as well as other documentation requires changes to the following reports are required:

- Construction Plan Report
- Design and Operations Report
- Water Body Assessment Documentation
- Natural Heritage Assessment Documentation.

Several studies do not require any revisions, these include the following:

- Decommissioning Plan Report
- Protected Properties Assessment
- Noise Assessment Study
- Project Description Report
- Previous Stage 1 and 2 Archaeological Assessments.

The following sections identify the amendments to each of the REA supporting documents as a result of the proposed Project changes. For each amended report, a table is provided identifying the original text, the amended text and the original page and section of the text being amended. The tables provide the text submitted with the original REA application, the application to amend the REA and the most recent revisions in response to the currently proposed Project changes.

2.1 Construction Plan Report

Table 2.1 identifies the amendments to the Construction Plan Report, as a result of the changes discussed in this letter.

Table 2.1 Construction Plan Report Amendments

| Page | Section | Original Text | Amended Text |
|------|------------|---------------|---|
| 27 | Appendix A | Site Layout | Revised Site Layout (Appendix B of this report) |

2.2 Design and Operations Report

Table 2.2 identifies the amendments to the Design and Operations Report, as a result of the changes discussed in this letter.

Table 2.2 Design and Operations Report Amendments

| Page | Section | Original Text | Amended Text |
|------|------------|---------------|--|
| 21 | Appendix A | Site Layout | Revised Site Layout (Appendix B of this report). |

2.3 Water Body Records Review Report

Table 2.3 identifies the amendments to the Water Body Records Review Report, as a result of the changes discussed in this letter.

Table 2.3 Water Body Records Review Report Amendments

| Page | Section | Original Text | Revised Text |
|------|------------|---------------|--|
| 5 | Figure 1.1 | Figure | Revised Figure 1.1 (Appendix D of this report) |

2.4 Water Body Site Investigation Report

Table 2.4 identifies the amendments to the Water Body Site Investigation Report, as a result of the changes discussed in this letter.

Table 2.4 Water Body Site Investigation Report Amendments

| Page | Section | Original Text | Revised Text |
|------|------------|---------------|--|
| 5 | Figure 1.1 | Figure | Revised Figure 1.1 (Appendix E of this report) |

2.5 Water Body Environmental Impact Study Report

Table 2.5 identifies the amendments to the Water Body Environmental Impact Study, as a result of the changes discussed in this letter.

Table 2.5 Water Body Environmental Impact Study Amendments

| Page | Section | Original Text | Revised Text |
|------|------------|---------------|--|
| 5 | Figure 1.1 | Figure | Revised Figure 1.1 (Appendix E of this report) |
| 32 | Appendix A | Site Layout | Revised Site Layout (Appendix B of this report). |

2.6 Natural Heritage Assessment Documentation

Correspondence was provided to the MNR with respect to the proposed changes and potential impacts on the Natural Heritage Assessment and Environmental Impact Study documentation. A copy of this correspondence is attached (Appendix C). A response from the MNR has not been received to date, however once a response is received this will be provided to MOE as supplemental information relating to this application.

2.7 Archaeological Assessment Reports

Additional archaeological assessments have been completed for this Project, as identified in Section 2. These reports concluded that no archaeological resources were discovered during the surveys and no additional surveys are required. These reports are provided under separate covers, along with the acceptance letters provided by the MTCS to date (Appendix A). An acceptance letter for the Stage 3 work has not been received to date, however this is not required for the amendment to the Renewable Energy Approval.

2.8 Consultation

In order to ensure that the public, Aboriginal communities, and the Hunta Local Roads Board are aware of the proposed changes, we propose, once confirmed by MOE, to notify these stakeholders via letter of the proposed change to the Project.

Once you have had an opportunity to review the information contained herein, if you have any questions relating to the proposed amendment, please do not hesitate to contact me at 905-374-0701, Ext. 5280.

Yours truly,



Sean K. Male, M.Sc.
Environmental Coordinator
SM:srg

cc: J. Mulvale, Northland Power
R. Miller, Northland Power
D. Durocher, Ministry of the Environment, South Porcupine

| For Office Use Only | | |
|---------------------|--------------|----------|
| Reference Number | Date (y/m/d) | Initials |

Application Summary

Project Name *(Project identifier to be used as a reference in correspondence)*
Long Lake Solar Project

Project Description Summary
(This summary should reflect the description in the documents upon which consultation has been completed and if it does not, the difference should be highlighted)

The proposed facility is a 10 MW solar generating facility located within the unorganized Township of Calder. The project will generate electricity using photovoltaic panels mounted on fixed racking structures, with in-ground foundations. Electricity generated by solar photovoltaic panels will be converted from direct current to alternating current by an inverter, and subsequently stepped-up (via transformer) to 115 kV prior to being connected to the transmission system. Other project components include access roads, a control building and site fencing.

This amendment is being submitted in order to use the southern portion of the Project area for construction lay down areas, relocation of the transmission line from the public right of way onto private lands and use of the previously identified archaeological area of concern for the Project.

| Required Information | Completed (yes or no) |
|--|-----------------------|
| <input checked="" type="checkbox"/> Project Name & Description | Yes |
| <input checked="" type="checkbox"/> Section 1: Applicant Information | Yes |
| <input checked="" type="checkbox"/> Section 2: Project Information | Yes |
| <input checked="" type="checkbox"/> Section 3: Site Information | Yes |
| <input checked="" type="checkbox"/> Section 4: Required Documents | Yes |

Application Status: FORM COMPLETE.

Summary:

| | |
|---|--|
| Type of Application Amendment to REA 8430-9AEQ6M | Type of Renewable Energy Generation Facility Solar Photo Voltaic Class 3. |
| Total Maximum Name Plate Capacity 10 MW | |
| Total Expected Generation Capacity 10 MW | |


Section 1: Applicant Information

Form ID: 2210389

| | |
|---|--|
| <input checked="" type="checkbox"/> 1.1 Applicant Information (Owner of works/facility) | |
| Applicant Name (legal name of individual or organization as evidenced by legal documents) Northland Power Solar Long Lake L.P. | Business Identification Number 191204528 |
| Business Name (the name under which the entity is operating or trading - also referred to as trade name) <input checked="" type="checkbox"/> same as Applicant Name Northland Power Solar Long Lake L.P. | |
| Applicant Type: <input type="checkbox"/> Corporation <input type="checkbox"/> Federal Government <input type="checkbox"/> Individual <input type="checkbox"/> Municipal Government <input checked="" type="checkbox"/> Partnership <input type="checkbox"/> Provincial Government <input type="checkbox"/> Sole Proprietor <input type="checkbox"/> Other (describe): | North American Industry Classification System (NAICS) Code 221119 Other Electric Power Generation |
| Business Activity Description (a description of the business endeavour, this may include products sold, services provided or machinery/equipment used, etc.) Northland Power specializes in the development and operation of renewable energy facilities, including solar power projects. | |

| | |
|---|---|
| <input checked="" type="checkbox"/> 1.2 Applicant Physical Address | |
| Civic Address - Street information (includes street number, name, type and direction) 30 St. Clair Avenue West | |
| Unit Identifier (i.e. apartment number) 12th Floor | |
| Survey Address (Not required if Street Information is provided) | Lot Conc. Part Reference Plan |
| Municipality /Unorganized Township Toronto | County/District Province/State Country Postal Code Ontario Canada M4V 3A1 |
| Telephone Number (include area code & ext.) (647)288-1273 ext. | Fax Number (include area code) (416)962-6266 |
| Mobile Number (include area code) | E-mail Address jim.mulvale@northlandpower.ca |

| | |
|--|--|
| <input checked="" type="checkbox"/> 1.3 Applicant Mailing Address | |
| Same as Applicant Physical Address? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If no, please provide site address information below) | |
| Civic Address - Street information (civic numbering and street information including street number, name, type and direction) 30 St. Clair Avenue West | |
| Unit Identifier (i.e. apartment number) 12th Floor | |
| Delivery Designator | Delivery Identifier Postal Station |
| Municipality /Unorganized Township Toronto | Province/State Country Postal Code Ontario Canada M4V 3A1 |

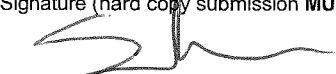
| | |
|--|---|
| <input checked="" type="checkbox"/> 1.4 Statement of Applicant | |
| I, the undersigned hereby declare that, to the best of my knowledge: | |
| <ul style="list-style-type: none"> • The information contained herein is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184(2) of the <i>Environmental Protection Act</i>. • I understand that by submitting this form, I am guaranteeing the completeness and accuracy of all the information provided on this form and included in the draft reports. Failure to submit the correct information will result in an incomplete application being returned. • The Project Technical Information Contact identified below is authorized to act on my behalf for the purpose of obtaining approval under section 47.3 of the EPA for the Project identified herein. | |
| Name of Signing Authority (please print) Jim Mulvale | Title Manager, EH&S |
| Telephone Number (including area code & extension) (647)288-1273 ext. | Fax Number (including area code) (416)962-6266 |
| Mobile Number (including area code) (416)662-1437 | E-mail Address jim.mulvale@northlandpower.ca |
| Signature  | Date (y/m/d) 2013/12/20 |

Section 2: Project Information

2.1 Application Type

| | | | |
|---|--|---|---|
| Type of Application: | | | |
| <input type="checkbox"/> New Renewable Energy Approval | Where Applicable provide Existing Renewable Energy Approval Number: | | |
| <input checked="" type="checkbox"/> Amendment to Renewable Energy Approval | 8430-9AEQ6M | | |
| Application Initiated by: | | | |
| <input checked="" type="checkbox"/> Proponent | <input type="checkbox"/> Environmental Assessment and Approvals Branch | <input type="checkbox"/> Provincial Officer Order (attach copy) | <input type="checkbox"/> Other (specify): |
| Current Certificate(s) of Approval <i>(please attach a separate list if more space is required)</i> | | | |
| Certificate of Approval Number | Date of Issue (yyyy/mm/dd) | Certificate of Approval Number | Date of Issue (yyyy/mm/dd) |
| | | | |
| Certificate of Approval Number | Date of Issue (yyyy/mm/dd) | Certificate of Approval Number | Date of Issue (yyyy/mm/dd) |
| | | | |
| Current Permit(s) to Take Water <i>(please attach a separate list if more space is required)</i> | | | |
| Permit Number | Date of Issue (yyyy/mm/dd) | Permit Number | Date of Issue (yyyy/mm/dd) |
| | | | |
| Permit Number | Date of Issue (yyyy/mm/dd) | Permit Number | Date of Issue (yyyy/mm/dd) |
| | | | |
| Project Schedule | | | |
| Estimated date for start of construction/installation (yyyy/mm/dd) | | Estimated date for start of operation (yyyy/mm/dd) | |
| 2013/12/01 | | 2014/12/01 | |

2.2 Statement of Project Technical Information Contact

| | | | |
|---|---------------------------------------|--|--|
| Is the Project Technical Information Contact the same as the Applicant (identified in Section 1)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| I, the undersigned hereby declare that, to the best of my knowledge: | | | |
| <ul style="list-style-type: none"> • The information contained herein and the information submitted in support of this application (electronically and in hard copy) is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184(2) of the <i>Environmental Protection Act</i>. • I understand that by submitting this form, I am guaranteeing the completeness and accuracy of this form and the draft documents. Failure to submit the correct information will result in the application being returned as incomplete. • That the information contained in the electronically submitted application form is the same as the information submitted in the hard copy submission. • I have used the most recent application form (as obtained from the "publications" section of the Ministry of the Environment website at www.ene.gov.on.ca or from the Environmental Assessment and Approvals Branch at 1-800-461-6290). | | | |
| Name of Project Technical Information Contact | | Company | |
| Sean Male | | Hatch | |
| Telephone Number <i>(include area code & ext.)</i> | Fax Number <i>(include area code)</i> | Mobile Number <i>(include area code)</i> | E-mail Address |
| (905)374-0701 ext. 5280 | (905)374-1157 | | smale@hatch.ca |
| Signature <i>(hard copy submission MUST be signed)</i> | | Date (yyyy/mm/dd) | |
|  | | 2013/12/20 | |
| Address Information: | | | |
| Same as Applicant Mailing Address? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(if no, please provide technical information contact address information below)</i> | | | |
| Civic Address - Street information <i>(civic numbering and street information including street number, name, type and direction)</i> | | | Unit Identifier <i>(i.e. apartment number)</i> |
| 4342 Queen Street | | | Suite 500 |
| Delivery Designator | Delivery Identifier | Postal Station | |
| | | | |
| Municipality /Unorganized Township | Province/State | Country | Postal Code |
| Niagara Falls | Ontario | Canada | L2E 7J7 |

2.3 Other Approvals for Facility – Please attach a separate list if more space is required

Separate list attached? Yes No

List all other environmental approvals/permits applied for related to this project or received in relation to this project

| Approval Number | Approval Date (yyyy/mm/dd) | Approval Number | Approval Date (yyyy/mm/dd) | Approval Number | Approval Date (yyyy/mm/dd) |
|-----------------|----------------------------|-----------------|----------------------------|-----------------|----------------------------|
| | | | | | |
| | | | | | |
| | | | | | |

Ontario Power Authority (OPA) Registration ID (if applicable) _____ Ontario Power Authority (OPA) Reference Number (if applicable) **FIT-FE8GSGA**

2.4 Type of Renewable Energy Generation Facility (select all that apply)

| Wind Facility | Biofuel / Biogas / Other | Anaerobic Digestion Facility | Thermal Treatment Facility | Solar Photo Voltaic Facility |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---|
| <input type="checkbox"/> Class 2 | <input type="checkbox"/> Biofuel | <input type="checkbox"/> Class 1 | <input type="checkbox"/> Class 1 | <input checked="" type="checkbox"/> Class 3 |
| <input type="checkbox"/> Class 3 | <input type="checkbox"/> Biogas | <input type="checkbox"/> Class 2 | <input type="checkbox"/> Class 2 | |
| <input type="checkbox"/> Class 4 | <input type="checkbox"/> Other | <input type="checkbox"/> Class 3 | <input type="checkbox"/> Class 3 | |
| <input type="checkbox"/> Class 5 | If other, please describe: | | | |

2.5 Generation of Electricity

| Total Maximum Name Plate Capacity | Total Expected Generation Capacity |
|--|--|
| 10 MW (1 MW = 1000 kW / 1 kW = 0.001 MW) | 10 MW (1 MW = 1000 kW / 1 kW = 0.001 MW) |
| Days and Hours of Operation | |
| 365 d/yr, sunlight hours | |

Section 3: Site Information



3.1 Project Location - (the site/location where project will be located)

| | | | | | |
|--|-----------------|-------------------|------------------------|----------------|---|
| Same as Applicant Physical Address? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If no, please provide site address information below) | | | | | |
| Civic Address- Street information (includes street number, name, type and direction) | | | | | Unit Identifier (i.e. apartment number) |
| n/a | | | | | n/a |
| Survey Address <i>(Legal description of the site)</i> | Lot | Conc. | Part | Reference Plan | |
| | Part Lots 2 & 3 | 8 | n/a | n/a | |
| Municipality / Unorganized Township | | County/District | | Postal Code | |
| Township of Calder | | Cochrane district | | P0L 1C0 | |
| Non Address Information (where the project spans many locations or a large rural area, specify how the project area relates to the address provided) | | | | | |
| The Project is located on approximately 123.1 ha of land on a property associated with the above address. UTM below is the facility's main transformer location. | | | | | |
| Geo Reference (southwest corner of property) | | | | | |
| Map Datum | Zone | Accuracy Estimate | Geo Referencing Method | UTM Easting | UTM Northing |
| NAD83 | 17 | +/- 10 m | GIS mapping | 479583.5 | 5443554.4 |



3.2 Municipal or local authority Information - (List all municipal or board authorities where the project is located)

| | | |
|---|---------------------------------|-----------------------------|
| Local Municipality / Unorganized Township (Include each Single Tier or Lower Tier in which the project location is situated. Attach a separate list if more space is necessary) | | |
| Name of Municipality | Address | Phone |
| Unorganized Township of Calder | Not Applicable | (999)999-9999 |
| Clerk's Name | Clerk's Phone/Fax | E-Mail Address |
| Not Applicable | (999)999-9999 | notapplicable@notapplicable |
| Is the project location situated in one or more Upper Tier Municipality? (i.e., county, regional or district municipality.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| List all Upper Tier Municipalities that the project location is situated in. Attach a separate list if more space is necessary | | |
| Name of Municipality | Address | Phone |
| | | |
| Clerk's Name | Clerk's Phone/Fax | E-Mail Address |
| | | |
| Is the project location situated in a Local Roads Area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| List all Local Roads Areas that the project location is situated in. Attach a separate list if more space is necessary | | |
| Name of local roads board | Address | Phone |
| Hunta Local Roads Board | 249 5th Street, Cochrane, ON | (705)272-6314 |
| Secretary-treasurer's Name | Secretary-treasurer's Phone/Fax | E-Mail Address |
| Evelyn Schier | (705)272-6314 | 05shier@puc.net |
| Is the project location in a Local Service Board area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| List all Local Service Board areas the project location is situated in. Attach a separate list if more space is necessary | | |
| Name of Local Service Board | Address | Phone |
| | | |
| Secretary's Name | Secretary's Phone/Fax | E-Mail Address |
| | | |

3.3 Site Information - (information about the site/location where project will be located)

| | |
|---|-------------------------|
| Site Name | MOE District Office |
| Long Lake Solar Project | Timmins District Office |
| Is in any portion of the Project location on federally owned land or a reserve? | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Is in any portion of the Project location on Crown Land? | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Is the Project location that is the subject of this application owned by the Applicant? | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no, please attach the owner's name, address and a signed letter granting consent for the installation and operation of the facilities</i> | |
| Is the Applicant the operating authority of the facility that is the subject of this application? | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no, please attach the operating authority name, address and phone number</i> | |
| Is the Project location in the area of the Niagara Escarpment Plan? | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Is the Project location in the area subject to the Oak Ridges Moraine Conservation Plan? | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Is the Project location in the Protected Countryside as shown in Schedule 1 to the Greenbelt Belt Plan? | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Is the Project location in the Lake Simcoe Watershed as defined in the Lake Simcoe Protection Act, 2008? | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Is the Project location in the Central Pickering Development Planning Area as shown in Schedule 1 to the Central Pickering Development Plan? | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Has an Archaeological Report (s. 22) been prepared as part of the complete submission? | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Has a Heritage Report (s.23) been prepared as part of the complete submission? | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Has an Environmental Impact Study Report (s.38, s. 41 or s. 43) been prepared as part of the complete submission? | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Has a Water body Report (s.39, s. 40, s.44 s. 45) been prepared as part of the complete submission? | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |

Appendix A

Correspondence from the Ontario Ministry of Tourism, Culture and Sport

Ministry of Tourism, Culture and Sport

Culture Programs Unit
Programs and Services Branch
Culture Division
401 Bay Street, Suite 1700
Toronto ON M7A 0A7
Tel.: (807) 475-1628
Email: Paige.Campbell@ontario.ca

Ministère du Tourisme, de la Culture et du Sport

Unité des programmes culturels
Direction des programmes et des services
Division de culture
401, rue Bay, bureau 1700
Toronto ON M7A 0A7
Tél. : (807) 475-1628
Email: Paige.Campbell@ontario.ca



Dec 10, 2013

T. Keith Powers (P052)
The Archaeologists Inc. - Toronto
790 Exceller Newmarket ON L3X 1P6

RE: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "Stage 1 and 2 Archaeological Assessment for Long Lake Solar Project – Solar Switching Station Part of Lot 1 & 28, Concessions 8 & 9, Town of Calder, District of Cochrane, Ontario", Dated Sep 16, 2013, Filed with MTCS Toronto Office on Nov 21, 2013, MTCS Project Information Form Number P052-453-2013, OPA Reference Number FIT-FE8GSGA

Dear Mr, Powers:

This office has reviewed the above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. ¹ This review has been carried out in order to determine whether the licensed professional consultant archaeologist has met the terms and conditions of their licence, that the licensee assessed the property and documented archaeological resources using a process that accords with the 2011 Standards and Guidelines for Consultant Archaeologists set by the ministry, and that the archaeological fieldwork and report recommendations are consistent with the conservation, protection and preservation of the cultural heritage of Ontario.²

The report documents the assessment of the study area as depicted in Map 3 of the above titled report and recommends the following:

The report recommends that no further archaeological assessment of the subject property is required.

Based on the information contained in the report, the ministry is satisfied that the fieldwork and reporting for the archaeological assessment are consistent with the ministry's 2011 Standards and Guidelines for Consultant Archaeologists and the terms and conditions for archaeological licences. This report has been entered into the Ontario Public Register of Archaeological Reports. Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.

Should you require any further information regarding this matter, please feel free to contact me.

Sincerely,

Paige, Campbell
Archaeology Review Officer

cc. Archaeology Licensing Officer
Rob Miller, Northland Power

¹This letter constitutes the Ministry of Tourism, Culture and Sport's written comments where required pursuant to section 22 of O. Reg. 359/09, as

amended (Renewable Energy Approvals under the Environmental Protection Act), regarding the archaeological assessment undertaken for the above-captioned project. Depending on the study area and scope of work of the archaeological assessment as detailed in the report, further archaeological assessment reports may be required to complete the archaeological assessment for the project under O. Reg. 359/09. In that event Ministry comments pursuant to section 22 of O. Reg. 359/09 will be required for any such additional reports.

²In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

Ministry of Tourism, Culture and Sport

Culture Programs Unit
Programs and Services Branch
Culture Division
401 Bay Street, Suite 1700
Toronto ON M7A 0A7
Tel.: (807) 475-1628
Email: Paige.Campbell@ontario.ca

Ministère du Tourisme, de la Culture et du Sport

Unité des programmes culturels
Direction des programmes et des services
Division de culture
401, rue Bay, bureau 1700
Toronto ON M7A 0A7
Tél. : (807) 475-1628
Email: Paige.Campbell@ontario.ca



Dec 10, 2013

T. Keith Powers (P052)
The Archaeologists Inc. - Toronto
790 Exceller Newmarket ON L3X 1P6

RE: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "Stage 1 and 2 Archaeological Assessment for Long Lake Solar Project (Additional Lands) – Solar Switching Station Part of Lot 2 &3, Concessions 8, Town of Calder, District of Cochrane, Ontario", Dated Nov 12, 2013, Filed with MTCS Toronto Office on Nov 22, 2013, MTCS Project Information Form Number P052-0525-2013, OPA Reference Number FIT-FE8GSGA

Dear Mr, Powers:

This office has reviewed the above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. ¹ This review has been carried out in order to determine whether the licensed professional consultant archaeologist has met the terms and conditions of their licence, that the licensee assessed the property and documented archaeological resources using a process that accords with the 2011 Standards and Guidelines for Consultant Archaeologists set by the ministry, and that the archaeological fieldwork and report recommendations are consistent with the conservation, protection and preservation of the cultural heritage of Ontario.²

The report documents the assessment of the study area as depicted in Map 2 of the above titled report and recommends the following:

The report recommends that no further archaeological assessment of the subject property is required.

Based on the information contained in the report, the ministry is satisfied that the fieldwork and reporting for the archaeological assessment are consistent with the ministry's 2011 Standards and Guidelines for Consultant Archaeologists and the terms and conditions for archaeological licences. This report has been entered into the Ontario Public Register of Archaeological Reports. Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.

Should you require any further information regarding this matter, please feel free to contact me.

Sincerely,

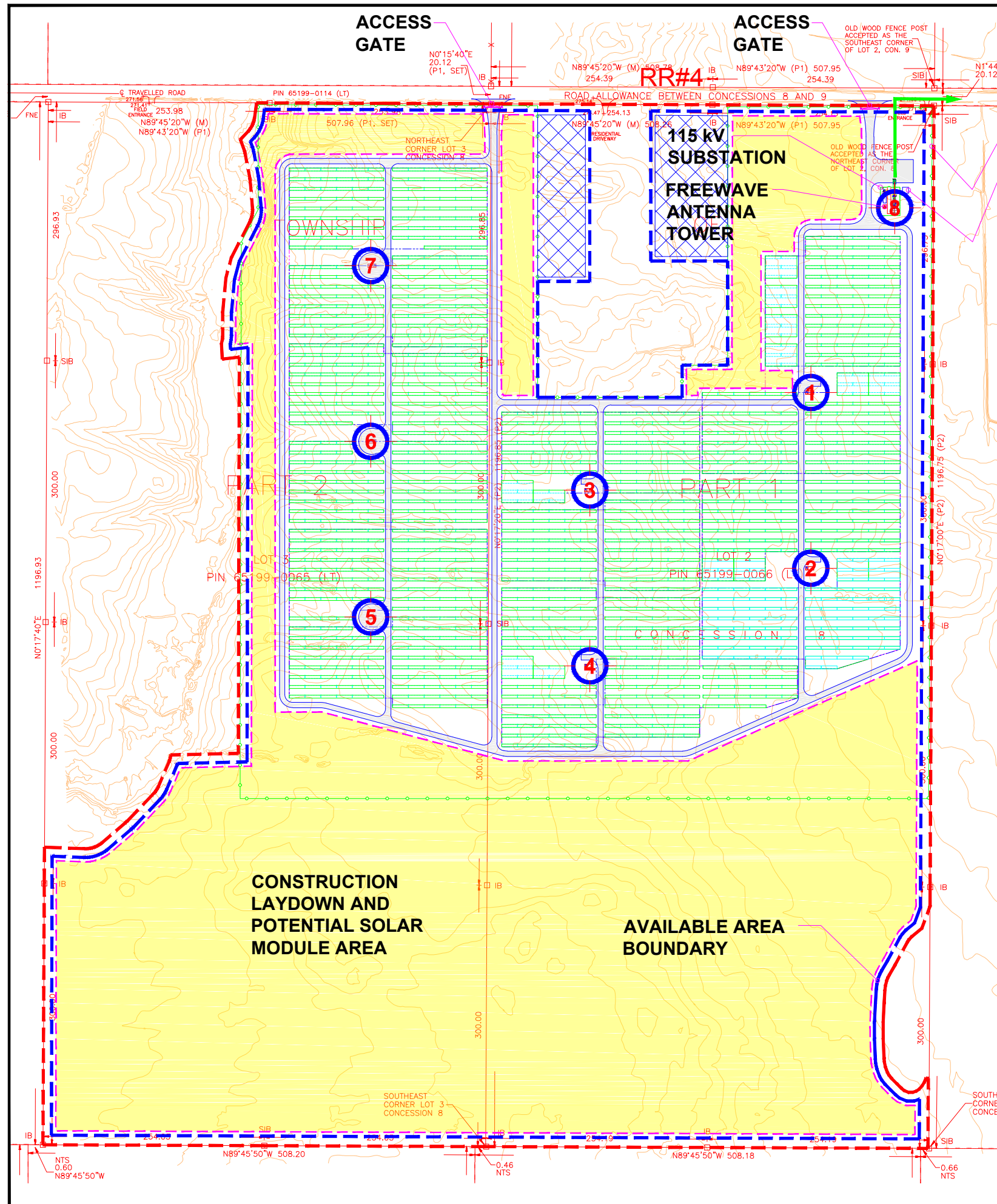
Paige, Campbell
Archaeology Review Officer

cc. Archaeology Licensing Officer
Robert Miller, Northland Power
Ramona Afante, Ministry of the Environment

¹This letter constitutes the Ministry of Tourism, Culture and Sport's written comments where required pursuant to section 22 of O. Reg. 359/09, as amended (Renewable Energy Approvals under the Environmental Protection Act), regarding the archaeological assessment undertaken for the above-captioned project. Depending on the study area and scope of work of the archaeological assessment as detailed in the report, further archaeological assessment reports may be required to complete the archaeological assessment for the project under O. Reg. 359/09. In that event Ministry comments pursuant to section 22 of O. Reg. 359/09 will be required for any such additional reports.

²In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

Appendix B Site Layout



**TO 115 kV CONNECTION POINT
APROX. 875 METERS
(49.145303, -81.274923)**

FENCE LINE

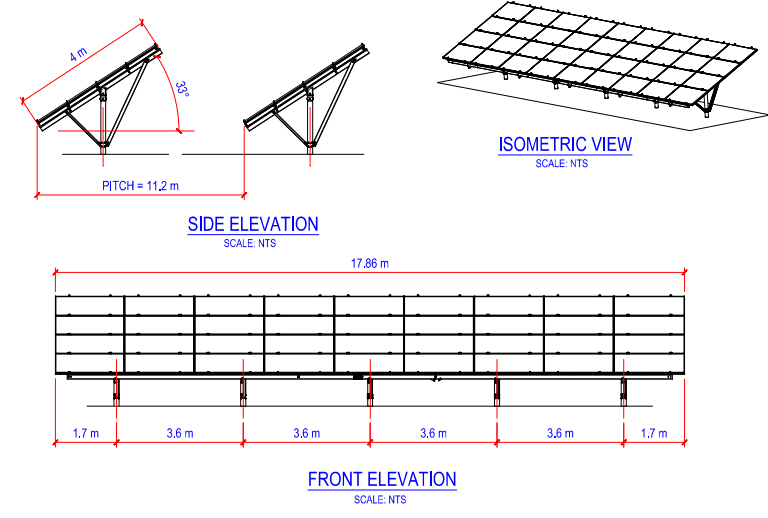
MAINTENANCE BUILDING

LEGEND:

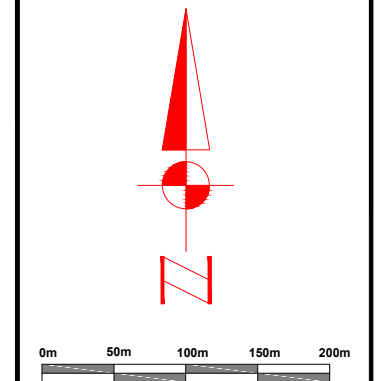
- GRAVEL ACCESS ROAD
- OVERHEAD 115 kV LINE
- PROPERTY BOUNDARY / FENCE LINE
- AVAILABLE AREA BOUNDARY
- AVAILABLE AREA BOUNDARY
- CONSTRUCTION LAYDOWN AND POTENTIAL SOLAR MODULES AREA
- AREA SHALL REMAIN UNDISTURBED AND IS NOT AVAILABLE FOR ANY CONSTRUCTION RELATED ACTIVITY
- 7** INVERTER'S TRANSFORMER & SUBSTATION'S TRANSFORMER

| INVERTER'S TRANSFORMER (UTM Co-ordinate) | | |
|---|-----------|------------|
| 17 U | X (m E) | Y (m N) |
| P1 | 479487.24 | 5443342.60 |
| P2 | 479487.24 | 5443141.00 |
| P3 | 479233.84 | 5443230.60 |
| P4 | 479233.84 | 5443029.00 |
| P5 | 478982.46 | 5443085.00 |
| P6 | 478982.46 | 5443286.60 |
| P7 | 478982.46 | 5443488.20 |

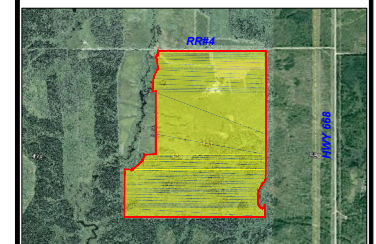
| 115 kV SUBSTATION'S TRANSFORMER (UTM Co-ordinate) | | |
|--|-----------|------------|
| 17 U | X (m E) | Y (m N) |
| P8 | 479583.51 | 5443554.44 |



| REVISIONS | | | |
|-----------|------------|--------|--|
| NO | DATE | SYMBOL | REMARKS |
| P0 | APR29 2013 | | ISSUED FOR EPC BID |
| P1 | AUG01 2013 | | RELOCATION OF 115kV SUBSTATION'S TRANSFORMER LOCATION |
| P2 | AUG08 2013 | | UNDISTURBED AREA ADDED |
| P3 | OCT18 2013 | | REVISED TO PROPERTY LINE & REAL BOUNDARY, AND CONSTRUCTION LAYDOWN |



**PRELIMINARY LAYOUT
NOT FOR CONSTRUCTION**



STAMP

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PROJECT

**NORTHLAND POWER SOLAR
LONG LAKE**

DRAWN BY **TIEN PHAM** VERIFIED BY _____

SCALE **N.T.S.** VERIFIED BY _____

DATE **APR 2013** APPROVED BY _____

ISSUED FOR TENDER

PROJECT No. _____

TITLE **LONG LAKE SOLAR PROJECT
LONG LAKE PROPERTY - SITE PLAN**

DRAWING No. **SP-01 (LONG LAKE) Rev.P3**

Appendix C

Correspondence with the Ontario Ministry of Natural Resources

December 12, 2013

Jennifer Telford
Ontario Ministry of Natural Resources
Cochrane District Office
2 Third Avenue, Box 730
Cochrane, ON P0L 1C0

Dear Ms. Telford:

Subject: Northland Power Solar Long Lake L.P. - Revision to the Project layout

Northland Power Solar Long Lake L.P. is commencing construction of the 10-MW Long Lake Solar Project north of the community of Hunta, Ontario. The Natural Heritage Assessment and Environmental Impact Study documents were previously provided to the Cochrane District office of the Ontario Ministry of Natural Resources (MNR) for review. A confirmation letter with respect to that assessment was received from the MNR on April 18, 2012 with respect to the Project.

Since that time, detailed design of the Project has identified a need to make two minor modifications to the proposed undertaking, discussed separately below.

1. Use of Southern Portion of the Project Location

Though the previously provided site plan showed that no Project activities would occur within the southern portion of the Project location, Northland has identified a need to use this area for temporary construction uses, as well as for stockpiling of excess native materials resulting from site grading activities. Though the use of this portion of the Project location was not contemplated within the site plan included in the Natural Heritage Environmental Impact Study, the mapping and text of that report considered that these lands would be used for the Project, and therefore there is no change in either the anticipated environmental effects of the project or mitigation measures required. A revised site plan is provided as Attachment A for your records.

2. Location of Transmission Line

The location of the transmission line from the Project to the switchyard was initially proposed to occur within the road right-of-way along the south side of Concession 8&9 Calder. Since that time, Northland has determined that in order to minimize the extent of line required, they would prefer to run the line approximately 50 m south of the road right of way, in a straight line from the Project substation to the



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H334844-0000-90-218-0222, Rev. 0

switchyard. This change is shown on a revised figure showing the significant natural heritage features in the area, provided as Attachment B.

This area was previously considered during the Project site investigations, and the relocation of the line will not result in construction in or within 120 m of any previously unidentified natural features. As a result, the sole change with respect to natural heritage features will be the relocation of the line within the wetland community. In order to minimize any impacts on the provincially significant wetland, construction and maintenance of the line will be timed, wherever possible, to occur during the winter months when ground conditions are frozen and the potential for damage to the underlying wetland vegetation communities is reduced. The relocation of the line will result in a potential environmental benefit to avian communities by reducing the amount of overhead line, and therefore associated collision risk found with the Project.

Please advise if you required any further information with respect to this proposed change to the Project. If acceptable, we would request that you provide some form of written correspondence that can be included with our application to the Ontario Ministry of the Environment for an amendment to the Renewable Energy Approval for the Project.

Sincerely,



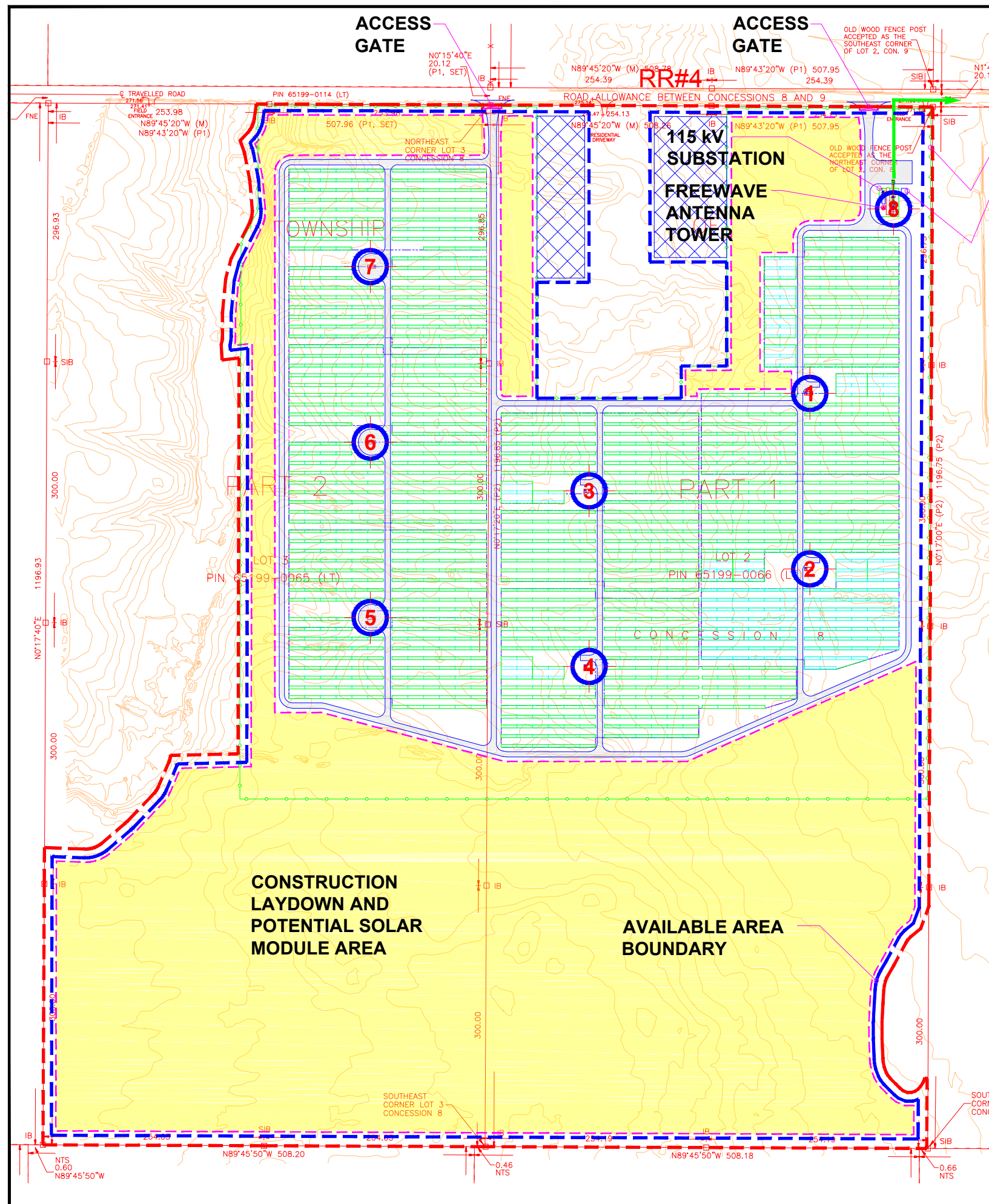
Sean K. Male, M.Sc.
Environmental Coordinator
SKM:skm

Attachment(s)

Attachment A – Revised Site Plan

Attachment B – Figure showing the locations of significant natural features in relation to the Project location

cc: R. Miller, Northland Power



**TO 115 kV CONNECTION POINT
APROX. 875 METERS
(49.145303, -81.274923)**

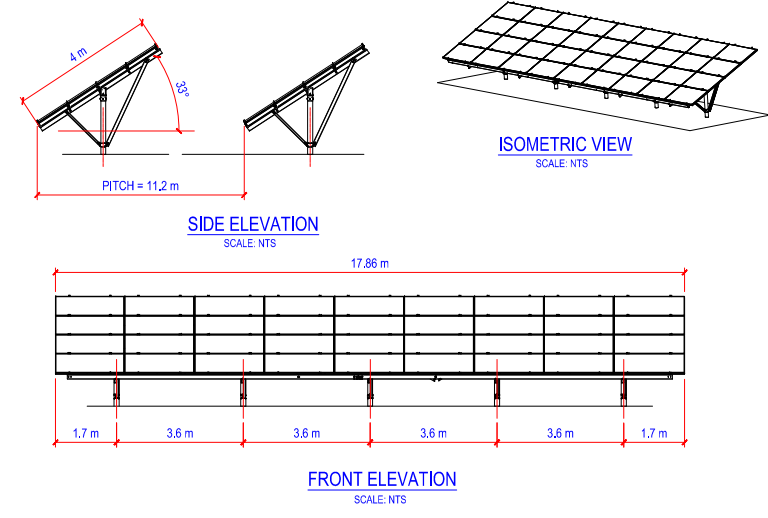
**FENCE LINE
MAINTENANCE BUILDING**

LEGEND:

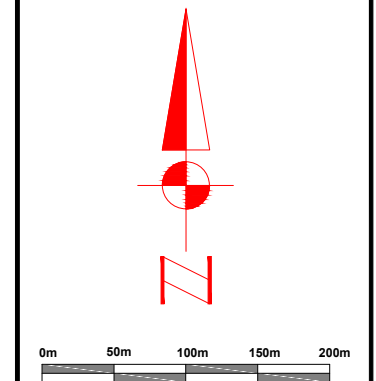
- GRAVEL ACCESS ROAD
- OVERHEAD 115 kV LINE
- PROPERTY BOUNDARY / FENCE LINE
- AVAILABLE AREA BOUNDARY
- AVAILABLE AREA BOUNDARY
- CONSTRUCTION LAYDOWN AND POTENTIAL SOLAR MODULES AREA
- AREA SHALL REMAIN UNDISTURBED AND IS NOT AVAILABLE FOR ANY CONSTRUCTION RELATED ACTIVITY
- INVERTER'S TRANSFORMER & SUBSTATION'S TRANSFORMER

| INVERTER'S TRANSFORMER (UTM Co-ordinate) | | |
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| P1 | 479487.24 | 5443342.60 |
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| P3 | 479233.84 | 5443230.60 |
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| P6 | 478982.46 | 5443286.60 |
| P7 | 478982.46 | 5443488.20 |

| 115 kV SUBSTATION'S TRANSFORMER (UTM Co-ordinate) | | |
|--|-----------|------------|
| 17 U | X (m E) | Y (m N) |
| P8 | 479583.51 | 5443554.44 |



| REVISIONS | | | |
|-----------|------------|--------|--|
| NO | DATE | SYMBOL | REMARKS |
| P0 | APR29 2013 | | ISSUED FOR EPC BID |
| P1 | AUG01 2013 | | RELOCATION OF 115kV SUBSTATION'S TRANSFORMER LOCATION UNDISTURBED AREA ADDED |
| P2 | AUG08 2013 | | |
| P3 | OCT18 2013 | | REVISED TO PROPERTY LINE & REAL BOUNDARY, AND CONSTRUCTION LAYDOWN |



**PRELIMINARY LAYOUT
NOT FOR CONSTRUCTION**



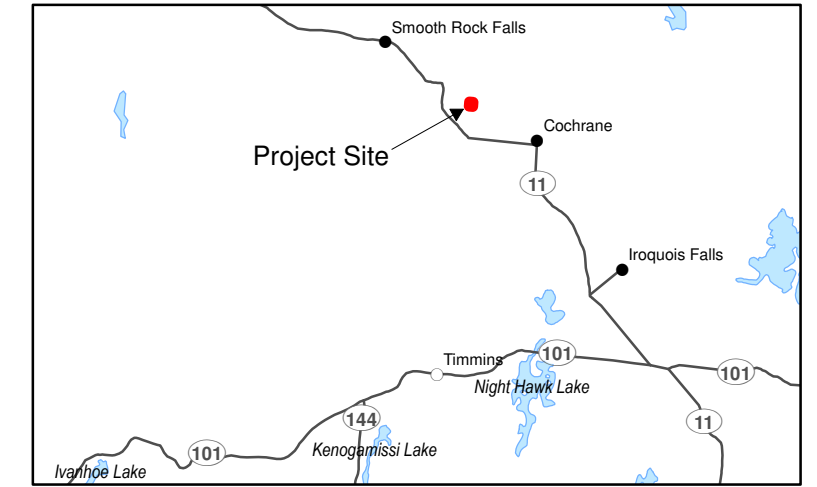
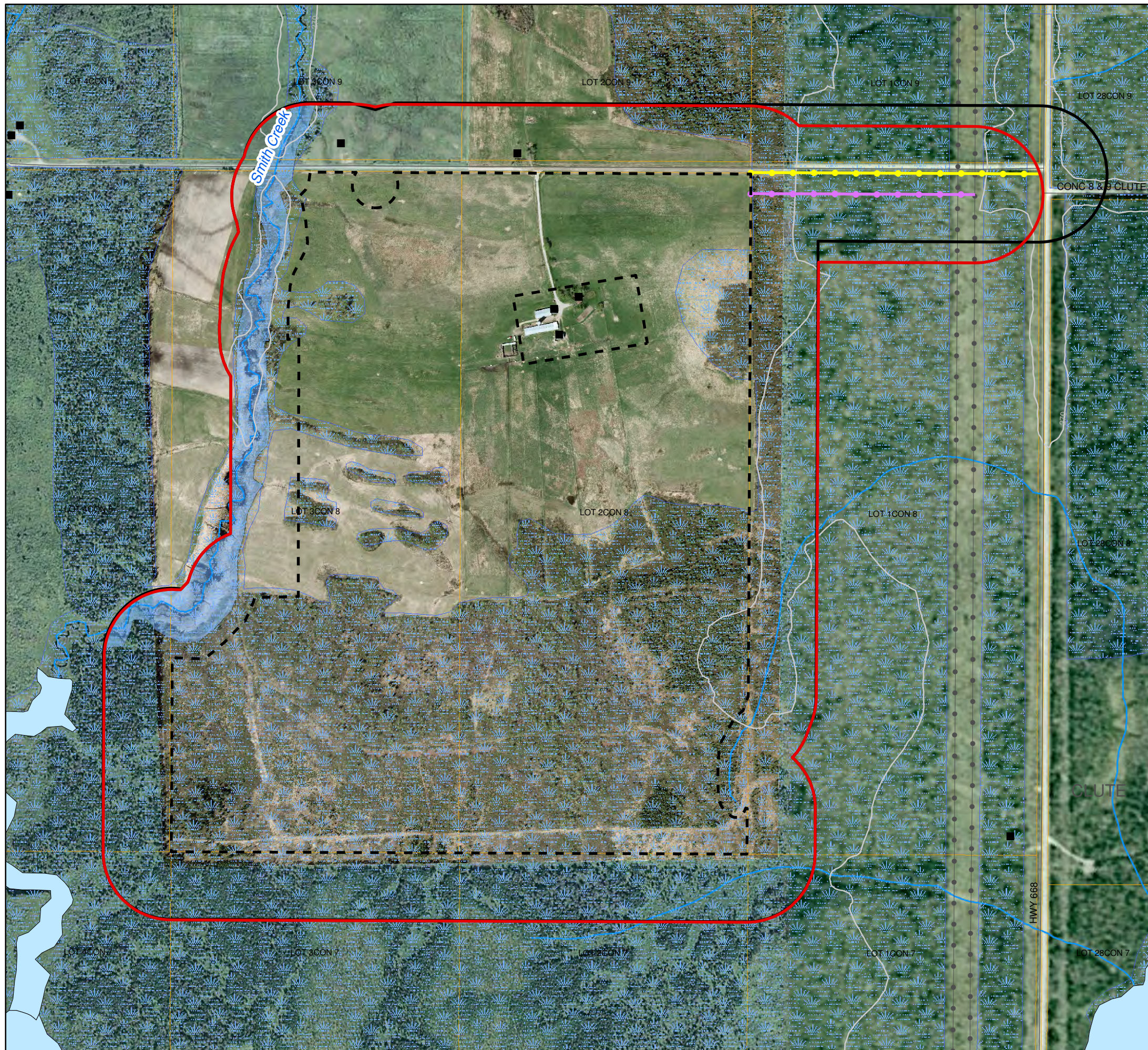
KEY PLAN

| | |
|-------|--|
| STAMP | |
|-------|--|

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| | |
|--|-------------|
| PROJECT | |
| NORTHLAND POWER SOLAR LONG LAKE | |
| DRAWN BY TIEN PHAM | VERIFIED BY |
| SCALE N.T.S. | VERIFIED BY |
| DATE APR 2013 | APPROVED BY |
| ISSUED FOR TENDER | |
| PROJECT No. | |
| TITLE LONG LAKE SOLAR PROJECT LONG LAKE PROPERTY - SITE PLAN | |
| DRAWING No. | Rev.P3 |



LEGEND

- Building
- Roads
- Transmission Line
- Watercourse
- ▭ Parcel
- ▭ Waterbody

Significant Natural Heritage Features

- ▭ Animal Movement Corridor
- ▭ Wetland Supporting Amphibian Breeding Habitat
- ▭ Provincially Significant Wetland

Project Components

- Proposed Transmission Line
- Proposed Transmission Line (2013)
- ▭ Project Location
- ▭ 120 m from Project Location (2012)
- ▭ 120 m from Project Location (2013)

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. Satellite imagery obtained from Google Earth Pro, captured 2004.
 4. Airphoto obtained from Northland Power Inc., flown May 2011.

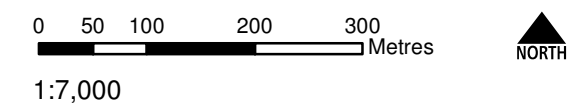
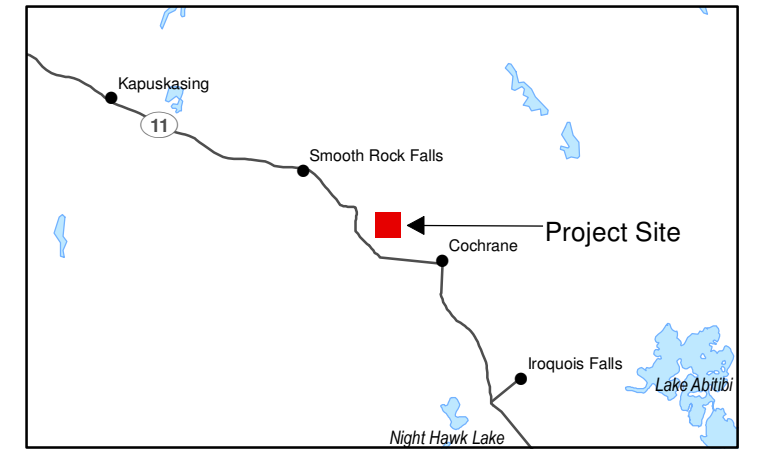
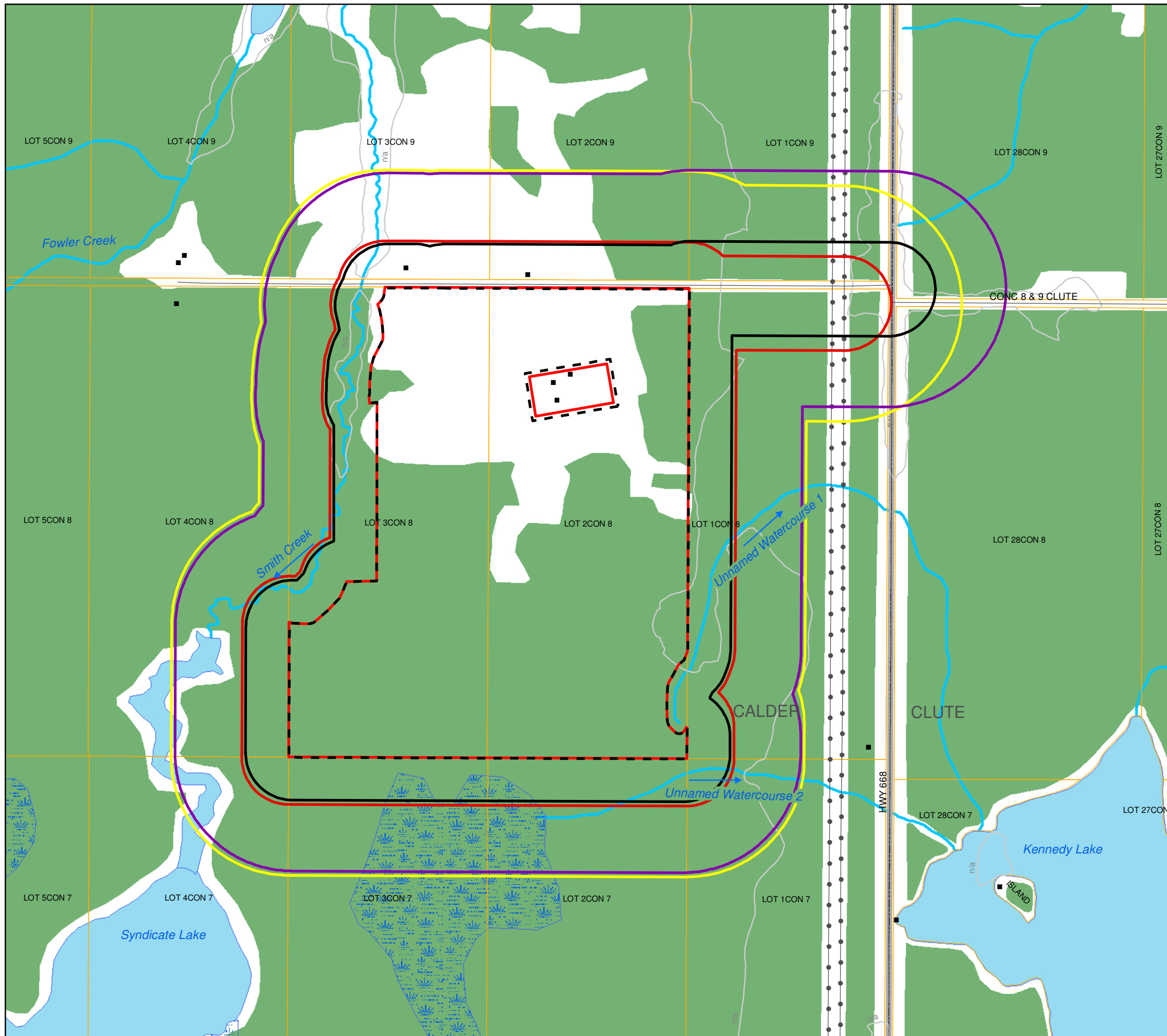


Figure 1.1
 Northland Power Inc.
 Long Lake Solar Project
 Project Location and
 Significant Natural Heritage Features **HATCH™**

Appendix D
Figure 1.1 from the Water Body
Records Review Report



Legend

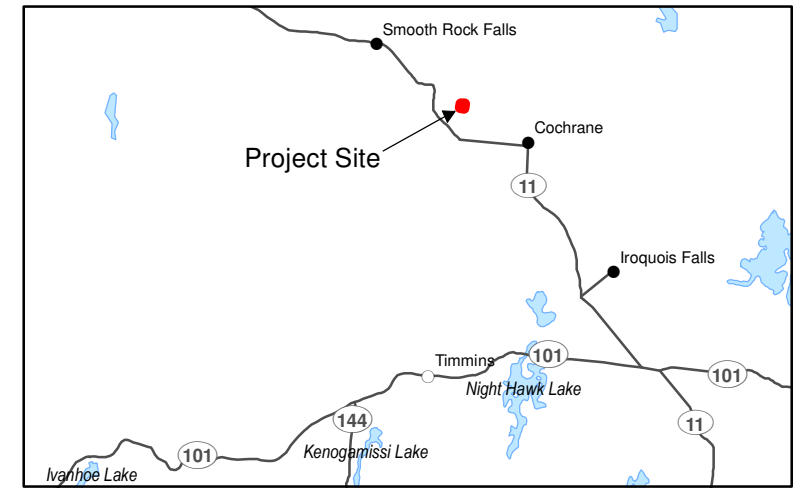
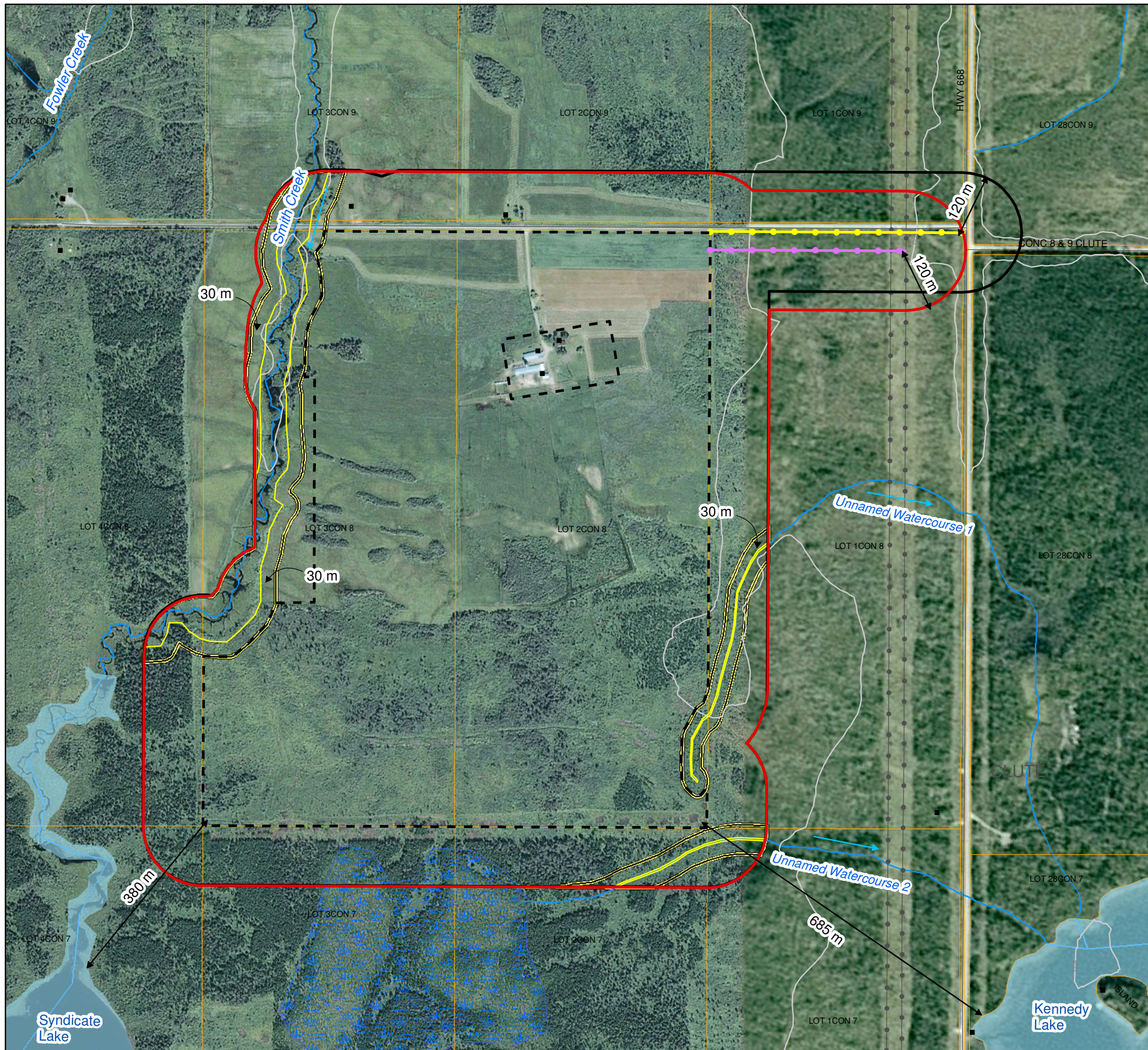
- Building
- Road
- +— Railway
- Topographic Contour (5m interval)
- Transmission Line
- Watercourse
- ▭ Parcel
- ▭ Project Location
- ▭ 120m from Project Location
- ▭ 300m from Project Location
- ▭ 120m from Project Location (2013)
- ▭ 300m from Project Location (2013)
- ▭ Project Site
- ▭ Township
- ▭ Water Body
- ▭ Wetland Area
- ▭ Wooded Area

Notes:
 1. Produced by hatch under license from Ontario Ministry of Natural Resources, Copyright (c) Queens Printer 2011.



Figure 1.1
 Northland Power Inc.
 Long Lake Solar Project
Water Body Features

Appendix E
Figure 1.1 from the Water Body Site
Investigation Report and
Environmental Impact Study



Legend

- Building
- Proposed Transmission Line (2012)
- Proposed Transmission Line (2013)
- Road
- Topographic Contour (5m interval)
- Watercourse
- ▭ 30 m from Average Annual High Water Mark
- ▭ Parcel
- ▭ Project Location
- ▭ 120m from Project Location (2013)
- ▭ 120 m from Project Location (2012)
- Waterbody
- Wetland Area

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. Satellite imagery obtained from Google Earth Pro, captured 2004.
 4. Air photo obtained ... NOTE!

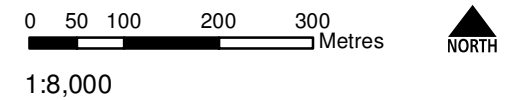


Figure 1.1
 Northland Power Inc.
Long Lake Solar Project
Water Body
Site Investigation Results

