

**SELF-ASSESSMENT OF CULTURAL HERITAGE
MCLEAN'S MOUNTAIN
RENEWABLE ENERGY PROJECT
MANITOULIN ISLAND**

F-000522-WIN-130-601
F-000520-WIN-130-601

Prepared for

**Dillon Consulting Ltd.
And
Northland Power**

for submission to
Ministry of the Environment

Prepared by

**SCARLETT JANUSAS
ARCHAEOLOGICAL AND HERITAGE
CONSULTING AND EDUCATION
269 Cameron Lake Road
Tobermory, Ontario N0H 2R0
phone and fax 519-596-8243 cell 519-374-1119
jscarlett@amtelecom.net**



April 4, 2011

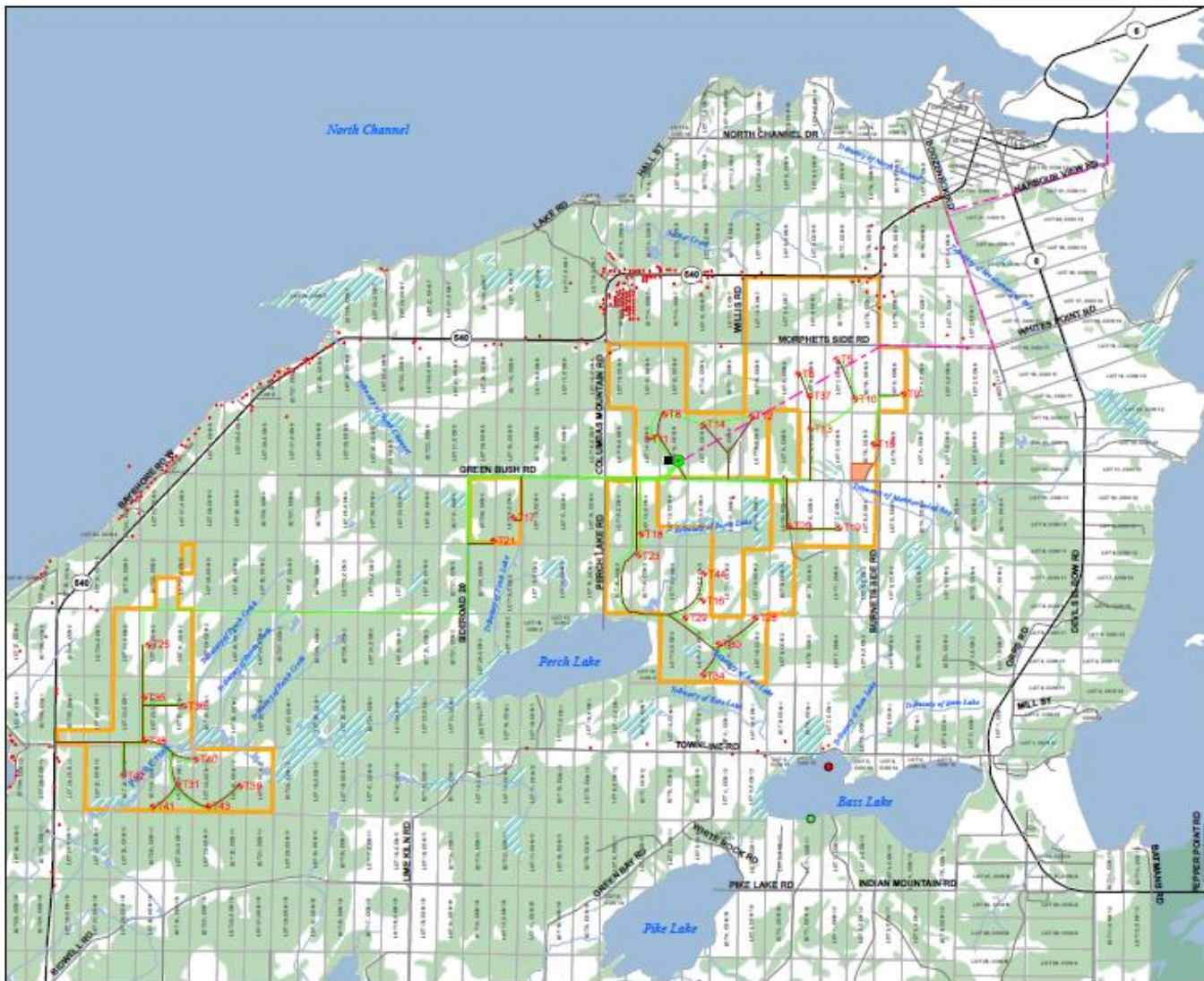

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1.0 Description of Project

Northland Power Inc. (NPI) proposes to develop the McLean's Mountain Wind Farm located south of the community of Little Current, in the Municipality of Northeastern Manitoulin and the Islands; geographic Township of Howland, and the geographic Township of Bidwell in the District of Manitoulin, Ontario. NPI intends to develop approximately 33 turbines (82 MW of electricity). Figure 1 presents the layout of the proposed wind energy project.

McLean's Mountain Wind Farm Turbine Locations

Legend

- Noise Receptors
- Local Roads
- Highway
- Optimized Properties
- Lots/Concessions
- Water Body
- Watercourse
- Woodland
- Unevaluated Wetland

Project Components

- Turbine
- Substation
- Operations Building
- Transmission Line
- Access Road
- Feeder Lines
- Construction Staging Area

Created By: SFG
 Checked By: DM
 Date Created: May 27, 2008
 Date Modified: March 31, 2011
 File Path: I:\GIS\01983 - Northland
 Power\Mapping\Turbine Locations.mxd

DILLON
 ENERGY

Scale: 1:55,000
 North Arrow

2.0 Qualifications

The self assessment of cultural heritage aspects of the McLean's Mountain Wind Farm was conducted by Scarlett Janusas of Scarlett Janusas Archaeological and Heritage Consulting and Education and by Dillon Consulting Ltd.

Scarlett Janusas holds a B.A., and M.A. in anthropology/archaeology, holds a current archaeological licence (P027), and is a member in good standing of the Association of Professional Archaeologists (currently holds position of President), the Canadian Association of Professional Heritage Consultants (CAPHC), the Council for Northeastern Archaeology, the Ontario Archaeological Society, and the Ontario Marine Heritage Committee. Ms. Janusas has over 30 years experience in the heritage field in Ontario.

3.0 Applicable Legislation

There are two pieces of applicable legislation: the **Ontario Heritage Act** – Ontario Regulation 9/06 – Criteria for Determining Cultural Heritage Value or Interest; and the **Environmental Protection Act** – Ontario Regulation 359/09, Part IV, Renewable Energy Approvals, Section 19.

Under Section 19 (1) of the Environmental Protection Act – O. Reg. 359/09 (Government of Ontario 2009:19), the following table is to be used with respect to determining if the project location is located on a protected property. Based on this table, it has been determined that the study area is not located on any of the identified types of protected properties.

Table 1 – Protected Properties

Item	Column 1	Column 2
	Description of property.	Project location
1.	A property that is the subject of an agreement, covenant or easement entered into under clause 10 (1) (b) of the <i>Ontario Heritage Act</i> .	NO
2.	A property in respect of which a notice of intention to designate the property to be of cultural heritage value or interest has been given in accordance with section 29 of the <i>Ontario Heritage Act</i> .	NO
3.	A property designated by a municipal by-law made under section 29 of the <i>Ontario Heritage Act</i> as a property of cultural heritage value or interest.	NO
4.	A property designated by order of the Minister of Culture made under section 34.5 of the <i>Ontario Heritage Act</i> as a property of cultural heritage value or interest of provincial significance.	NO
5.	A property in respect of which a notice of intention to designate the property as property of cultural heritage value or interest of provincial significance has been given in accordance with section 34.6 of the <i>Ontario Heritage Act</i> .	NO
6.	A property that is the subject of an easement or a covenant entered into under section 37 of the <i>Ontario Heritage Act</i> .	NO
7.	A property that is part of an area designated by a municipal by-law made under section 41 of the <i>Ontario</i>	NO

Item	Column 1	Column 2
	<i>Heritage Act</i> as a heritage conservation district.	
8.	A property designated as a historic site under Regulation 880 of the Revised Regulations of Ontario, 1990 (Historic Sites) made under the <i>Ontario Heritage Act</i> .	NO

4.0 Archaeological Potential

A Stage 1 archaeological resource assessment (background research and field visit) was conducted by Dr. P. Julig, Archaeological Survey of Laurentian University in 2009. Areas of archaeological potential were identified in the report.

A Stage 2 archaeological resource assessment (field assessment) re-evaluated the identified areas of archaeological potential, and added some additional areas based on proximity to water sources. The Stage 2 archaeological resource assessment was conducted in the summer of 2010 by Scarlett Janusas Archaeological and Heritage Consulting and Education. No archaeological or cultural heritage resources were located during the Stage 2 assessment.

The McLean Mountain Wind Farm layout was modified in the late fall of 2010. A modified Stage 2 (an addendum to the Stage 2 report) was conducted that identified areas of archaeological potential based on proximity to water sources. These areas have been identified by Northland Power as having been subject to development disturbance. The Ministry of Tourism and Culture requires verification of this disturbance in relation to the areas of archaeological potential. A Stage 2 field assessment will be conducted in 2011 to meet this requirement.

Julig, Patrick

2009 Report on Stage 1 Archaeological Assessment of the Manitoulin Island Wind Farm, by Northland Power, in Northeast Manitoulin and the Islands. Report on file with the Ministry of Tourism and Culture.

Scarlett Janusas Archaeological and Heritage Consulting and Education

2010 Stage 2 Archaeological Resource Assessment, McLean's Mountain Wind Farm (Part of Lots 21 and 22, Concession 12; Part of Lot 3, Concession 8; Part of Lot 20, Concession 11; Part of Lot 9, Concession 6; Part of Lots 7-8, Concession 5; Part of Lot 7, Concession 4; Part of Lots 11-13, Concession 2; Part of Lot 14, Concession 3; Part of Lot 19-20, Concession 4; Part of Lot 31, Concession 1; part of Lots 22-23, 25-26, Concession 12), Geographic Township of Howland, Northeastern Manitoulin and the Islands (NEMI), District of Manitoulin. On file with the Ministry of Tourism and Culture.

Scarlett Janusas Archaeological and Heritage Consulting and Education

2011 Stage 2 Archaeological Resource Assessment, McLean's Mountain Wind Farm: Addendum. On file with the Ministry of Tourism and Culture.

5.0 Screening for Impacts to Built Heritage and Cultural Heritage Landscapes

Screening for Impacts to Built Heritage and Cultural Heritage Landscapes

This check list will help identify potential cultural heritage resources, determine how important they are and indicate whether a cultural heritage impact assessment is needed.

Step 1 – Screening Potential Resources		
		<p>Built heritage resources</p> <p>Does the property contain any built structures, such as:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Residential structures (e.g. house, apartment building, trap line shelter) <input type="checkbox"/> Agricultural (e.g. barns, outbuildings, silos, windmills) <input type="checkbox"/> Industrial (e.g. factories, complexes) <input checked="" type="checkbox"/> Engineering works (e.g. bridges, roads, water/sewer systems) existing roads/laneways
YES	NO	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<p>Cultural heritage landscapes</p> <p>Does the property contain landscapes such as:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Burial sites and/or cemeteries <input type="checkbox"/> Parks <input type="checkbox"/> Quarries or mining operations <input type="checkbox"/> Canals <input type="checkbox"/> Other human-made alterations to the natural landscape
YES	NO	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Step 2 – Screening for Potential Significance		
		<p>A property's heritage significance may be identified through the following:</p> <ol style="list-style-type: none"> 1. Is it designated or adjacent to a property designated under the Ontario Heritage Act? 2. Is it listed on the municipal heritage register or provincial register (e.g. Ontario Heritage Bridge List)? 3. Is it within or adjacent to a Heritage Conservation District? 4. Does it have an Ontario Heritage Trust easement or is it adjacent to such a property? 5. Is there a provincial or federal plaque? 6. Is it a National Historic Site? 7. Does documentation exist to suggest built heritage or cultural heritage landscape potential? (eg. research studies, heritage impact assessment reports, etc.) 8. Was the municipality contacted regarding potential cultural heritage value? Were any concerns expressed? 9. What are the dates of construction? Are the buildings and/or structures over 40 years old? Is it within a Canadian Heritage River watershed? 10. Is a renowned architect or builder associated with the property?
YES	NO	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Note: If you answer "yes" to any of the questions in Step 2, a heritage impact assessment is required.

Step 3 – Screening for Potential Impacts		
YES	NO	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Destruction of any, or part of any, significant heritage attribute or feature.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Alteration that is not sympathetic, or is incompatible, with the historic fabric or appearance.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shadows created that alter the appearance of a heritage attribute or change the visibility of a natural feature or plantings, such as a garden.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Isolation of a heritage attribute from its surrounding environment, context or a significant relationship.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Direct or indirect obstruction of significant views or vistas from, within, or to a built and natural feature.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A change in land use such as rezoning a battlefield from open space to residential use, allowing new development or site alteration to fill in the formerly open spaces.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Land disturbances such as a change in grade that alters soils and drainage patterns that adversely affect an archaeological resource.

The checklist was verified by employees of Dillon Consulting, and for some areas, by employees of SJAHCE.

6.0 Agency Consultation

Ministry of Tourism and Culture, Alejandro Cifuentes, July 12th, 2010.

Renewable Energy Facilitation Office, Petra Fisher, July 14, 2010.

Ontario Heritage Trust – email August 9 – 10, 2010 re: conservation easements.

Town of Northeastern Manitoulin and the Islands (NEMI), Ms. Kristin Luoma, Economic Development Officer re: heritage properties.

7.0 Summary

Archaeology – A Stage 1 archaeological resource assessment was completed in 2009. A Stage 2 archaeological resource assessment was completed in 2010. Modifications to parts of the layout will be subject to a Stage 2 archaeological resource assessment in 2011. No archaeological resources were located during the Stage 2 (2010) archaeological assessment.

Cultural Heritage – the screening for impacts to the built heritage and cultural heritage landscape indicate that there are no heritage concerns.

Appendix A – MTC Letters of Concurrence (Stage 2 ARA)

Ministry of Tourism and Culture

Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James St., Suite 334
Thunder Bay, ON P7E 6S7
Tel.: 807 475-1632
Fax: 807 475-1297

Ministère du Tourisme et de la Culture

Unité des programmes culturels
Direction des programmes et des services
Division de culture
Bureau 334, 435 rue James sud
Thunder Bay, ON P7E 6S7
Tél.: 807 475-1632
Télééc.: 807 475-1297



February 1, 2011

Don McKinnon
Dillon Consulting Ltd.
235 Yorkland Blvd., Suite 800
Toronto, ON M2J 4Y8

RE: McLean's Mountain Wind Farm

Part of Lots 21 and 22, Concession 12; Part of Lot 3, Concession 8; Part of Lot 20, Concession 11; Part of Lot 9, Concession 6; Part of Lots 7-8, Concession 5; Part of Lot 7, Concession 4; Part of Lots 11-13, Concession 2; Part of Lot 14, Concession 3; Part of Lot 19-20, Concession 4; Part of Lot 31, Concession 1; Part of Lots 22-23, 25-26, Concession 12, Geographic Township of Howland, Northeastern Manitoulin and the Islands (NEMI), District of Manitoulin

FIT#: F-000522-WIN-130-601 and F-000520-WIN-130-601

IRIMS: HD00045

PIF: P027-093-2010

Dear Proponent:

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the report(s) you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines. Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the Report(s).*

The report(s) recommends the following:

- It is recommended that the property be cleared of archaeological concerns; however,
- Should previously undocumented archaeological resources be discovered, they may be an archaeological site and therefore subject to Section 48(1) of the Ontario Heritage Act. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed archaeologist to carry out archaeological fieldwork, in compliance with sec. 48(1) of the Ontario Heritage Act.;
- The Cemeteries Act requires that any person discovering human remains must notify the police or coroner and the Registrar of cemeteries, Ministry of Small Business and Consumer Services.

Further, an amendment to the report received January 26, 2011 and concerning two realigned access roads recommends the following:

- During construction of these areas for use as access roads, archaeological supervision of the construction (ground disturbance) be conducted.

The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the Ontario *Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

Please feel free to contact me if you have questions or require additional information.

Sincerely,



Andrew Hinshelwood
Archaeology Review Officer

cc. Scarlett Janusas
SJAHCE
269 Cameron Lake Road
Tobermory, ON N0H 2R0

** In 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 and Culture

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Division de culture
Bureau 334, 435 rue James sud
Thunder Bay, ON P7E 6S7
Tél.: 807 475-1632
Télééc.: 807 475-1297



February 1, 2011

Scarlett Janusas
Scarlett Janusas Archaeological and Heritage Consulting
269 Cameron Lake Road
Tobermory, ON N0H 2R0

Dear Scarlett,

Re: Review and acceptance into the provincial register of reports the archaeological assessment report entitled "Stage 2 Archaeological Resource Assessment McLean's Mountain Wind Farm Part of Lots 21 and 22, Concession 12; Part of Lot 3, Concession 8; Part of Lot 20, Concession 11; Part of Lot 9, Concession 6; Part of Lots 7-8, Concession 5; Part of Lot 7, Concession 4; Part of Lots 11-13, Concession 2; Part of Lot 14, Concession 3; Part of Lot 19-20, Concession 4; Part of Lot 31, Concession 1; Part of Lots 22-23, 25-26, Concession 12, Geographic Township of Howland, Northeastern Manitoulin and the Islands (NEMI), District of Manitoulin" written on July 23, 2010, received on July 28, 2010. Includes Addendum report entitled "Stage 2 Archaeological Resource Assessment McLean's Mountain Wind Farm Addendum" written on January 26, 2011, received January 26, 2011.

PIF: P027-093-2010

MTC: HD00045

FIT File#: F-000522-WIN-130-601 and F-000520-WIN-130-601

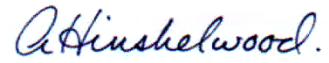
This office has reviewed the above-mentioned report, which has been submitted to this Ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c. 18). This review is to ensure that the licensed professional archaeological consultant has met the terms and conditions of their archaeological license, that archaeological sites have been identified and documented according to the 1993 technical guidelines set by the Ministry, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.

The report recommends that the subject property, specifically the locations subject to Stage 2 archaeological assessment, as illustrated in the map, Figure 1 and in detailed maps found throughout the report, be cleared of archaeological concerns. The Ministry of Tourism and Culture concurs with these recommendations and accepts this report into the provincial register of archaeological reports.

The addendum further recommends that the initial (ground disturbance) phase of road construction for the two alignments revised since the initial report was reviewed (Figure 1 and Figure 2 of the addendum report) be monitored by a licensed archaeologist to confirm the extent and depth of existing disturbance, and to carry out necessary assessment of undisturbed portions.

Please feel free to contact me with any concerns or questions regarding this letter.

Yours,

A handwritten signature in blue ink that reads "A Hinshelwood." The signature is written in a cursive style with a large initial 'A'.

Andrew Hinshelwood
Archaeology Review Officer

cc. D. McKinnon, Dillon Consulting Ltd. (416) 229-4692