



November 29, 2012

STAGE 2 ARCHAEOLOGICAL ASSESSMENT

NextEra East Durham Wind Energy Additional Reporting Various Lots and Concessions Geographic Township of Glenelg, now West Grey Township, Grey County, Ontario

Submitted to:

Ms. Pat Becker
GENIVAR
600 Cochrane Drive, 5th Floor
Markham, Ontario
L3R 5K3

FIT Number: F-002177-WIN-130-601

Licensee: Irena Jurakic

License Number: P319

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ORIGINAL REPORT





Executive Summary

A Stage 2 archaeological assessment was conducted by Golder Associates Ltd. (Golder) for the proposed East Durham Wind Energy Centre on behalf of NextEra Energy Canada, ULC (NEEC) (Golder 2012). The Stage 2 assessment was undertaken in order to meet the requirements for an application for a Renewable Energy Approval, as outlined in Ontario Regulation 359/09 section 22(3) of the *Environmental Protection Act*. The additional Stage 2 assessment reported on herein includes three optional substation locations, a change in access road and options related to the collection lines crossing the Saugeen River. The Stage 2 assessment was conducted in accordance with the Ministry of Tourism, Culture and Sport's (MTCS) 2011 *Standards and Guidelines for Consultant Archaeologists* (Government of Ontario 2011).

A Stage 1 archaeological assessment previously conducted resulted in the determination that potential exists within much of the study area for the identification of pre-contact Aboriginal and Euro-Canadian sites. As a result, Stage 2 archaeological assessment was recommended for any areas to be impacted by turbine construction, access road construction or other infrastructure related activities (ASI 2010).

A Stage 2 archaeological assessment of the proposed project infrastructure was undertaken by Golder, on behalf of NEEC. The Stage 2 assessment focused upon the proposed wind turbine layout, including turbine sites, collection lines, access roads, construction roads, laydown areas and substations. A total of approximately 134.73 hectares were subject to Stage 2 archaeological assessment, the majority of which was assessed using the pedestrian survey method at an interval of five metres. Small areas of tree lines and wooded areas that could not be assessed using the pedestrian survey method were assessed using the test pit method at an interval of five metres. The Stage 2 archaeological assessment conducted by Golder resulted in the identification of three 19th century Euro-Canadian historic locations: Location 1 (BbHd-3), Location 2 (BbHd-4) and Location 3 (BbHe-2). Based on criteria established in the *Standards and Guideline for Consultant Archaeologists*, it was recommended these sites be subject to a Stage 3 archaeological investigation to further evaluate their cultural heritage value or interest (Golder 2012).

The Stage 2 assessment of the three optional substation locations was conducted on September 28, 2012 using the pedestrian survey method at five metre transects. The Stage 2 assessment of the change in access road was conducted on October 29, 2012 using the test pit method at five metre intervals. The Stage 2 assessment of the Saugeen River crossing area was conducted on November 20, 2012 using the test pit method at five metre intervals. No archaeological material or sites were identified and no further archaeological assessment is recommended for these areas.

The MTCS is asked to review the results presented and to accept this report into the Ontario Public Register of Archaeological Reports. The MTCS is also asked to issue a letter concurring that archaeological concerns related to the areas reported on herein have been addressed.

The Executive Summary highlights key points from the report only; for complete information and findings, as well as the limitations, the reader should examine the complete report. This additional report is intended to be read in conjunction with the previously submitted Stage 2 archaeological assessment report (Golder 2012).



Project Personnel

Project Manager	Jamie Davidson (R305)
Project Licensee	Irena Jurakic, M.A. (P319)
Licensed Field Director(s)	Chris Lemon, B.Sc. (R289), Jamie Davidson, B.A. (R305), Nancy Van Sas, B.A. (R323)
Field Technicians	Christine Yellowlees, B.Sc., Beth Henderson, Bryan Graul, Anne McKee
Report Production	Jamie Davidson, B.A. (R305)
Graphics Production	Mike Edwards
Senior Review	Carla Parslow, Ph.D. (P243)

Acknowledgments

Proponent Contacts	Thomas Bird, NextEra Energy Canada, ULC, Adam Rickel, NextEra Energy Canada, ULC, Pat Becker, GENIVAR
Ministry of Tourism, Culture and Sport	Robert von Bitter, B.A., Andrew Hinshelwood, M.A.
First Nations Monitors	David Root, Caleb Keeshig, Anthony Kahgee, Wendall Nadjiwon, Michele Desjardine
Saugeen Ojibway Nation Environmental Office	Dr. William Fitzgerald, Joselyn Keeshig and Jake Linklater



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1.0 PROJECT CONTEXT

1.1 Development Context

A Stage 2 archaeological assessment was conducted by Golder for the proposed East Durham Wind Energy Centre on behalf of NextEra Energy Canada, ULC (NEEC) (Golder 2012). The Stage 2 assessment was undertaken in order to meet the requirements for an application for a Renewable Energy Approval, as outlined in Ontario Regulation 359/09 section 22(3) of the *Environmental Protection Act*. The additional Stage 2 assessment reported on herein includes three optional substation locations, a change in access road and options related to the collection lines crossing the Saugeen River. The study area is located on parts of various lots and concessions in the Geographic Township of Glenelg, now Municipality of West Grey, Grey County, Ontario (Figure 1). Table 1 lists the relevant lots where additional archaeological assessment was undertaken.

Table 1: Optional Substations within the NextEra East Durham Wind Energy Centre, Grey County

Geographic Township	Property ID	Concession	Lot
Glenelg	EDU 1030	1 NDR	28
	EDU 1039	1 NDR	22
	EDU 1039	1 NDR	21
	EDU 1309	1 NDR	46
	N/A	4 NDR	17
	N/A	4 NDR	18
	N/A	5	17
	N/A	5	18

The *Green Energy Act* (2009) enabled legislation governing project assessments and approvals to be altered to allow for a more streamlined Renewable Energy Approval (REA) process. Under Section 22(1) of the REA, an archaeological assessment must be conducted if the proponent concludes that engaging in the project may have an impact on archaeological resources. It was previously determined that archaeological potential for the recovery of pre-contact Aboriginal and Euro-Canadian historic archaeological resources exists within the study area (ASI 2010). Currently, Ontario Regulation 359/09 of the *Environmental Protection Act* governs the REA process for renewable energy projects such as wind, anaerobic digestions, solar and thermal treatment facilities. This assessment was undertaken in order to meet the requirements for an application for a REA, as outlined in Ontario Regulation 359/09 section 22(3) of the *Environmental Protection Act*.

The East Durham Wind Energy Centre will include up to 14 turbines, with alternates (2) studied totaling 16 turbine sites studied, as well as associated infrastructure including collection lines, access roads, construction roads, 1-2 MET (meteorological) towers, one staging area and one substation (Golder 2012). Up to 16 GE model wind turbines are proposed for permitting with a maximum of 14 turbines ultimately being constructed. Permission to enter the option lots within the study area and remove archaeological resources was provided by Pat Becker of GENIVAR. The Stage 2 assessment was conducted in accordance with the Ministry of Tourism, Culture and Sport's (MTCS) *Standards and Guidelines for Consultant Archaeologists* (Government of Ontario