

Illumination

CULTURAL HERITAGE SCREENING



**SELF-ASSESSMENT
PROTECTED PROPERTIES, ARCHAEOLOGICAL
AND HERITAGE RESOURCES
ILLUMINATIONLIGHT LP SOLAR POWER PROJECT
FIT-F2MN89G-ILLUMINATIONLIGHT
F-001570-SPV-130-505**

Prepared for

SkyPower Limited

**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**



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1.0 Introduction

This report is a self-assessment of archaeological and/or heritage resources on the IlluminationLight Solar Facility located on private property in southcentral Ontario, Township of Scugog, Simcoe County (Figure 1). The assessment has been conducted by Scarlett Janusas, BA, MA, CAHP, of Scarlett Janusas Archaeological and Heritage Consulting and Education.

The self-assessment is allowed under the Renewable Energy Approvals regulation (O.Reg. 359/09) issued under the Environmental Protection Act (2009). A self-assessment will determine if there are archaeological or heritage resources at the project location, and confirm if there will be any anticipated, direct or indirect, impact on those resources. Written summaries of supporting documentation are provided in this report.

Project Name: IlluminationLight LP Solar Power Project

Project Location: The property is located on the south side of Regional Road 19, east of Shirley. The two geographic coordinates (centroids) for the property are: 44° 03' 43.50"N, 78° 51' 50.34" W. The proposed IlluminationLight Solar Facility is located in southern Ontario. This property is located on part of Lots 2 and 3, Concession 2, Township of Scugog, geographic Township of Cartwright, Town of Port Perry, Regional Municipality of Durham. The property is approximately 57.74 hectares in size.

Municipal address: 2580 and 2670 Regional Road 19

REA Project Identifier: FIT-F2MN89G-IlluminationLight, F-001570-SPV-130-505

Type and Classification of Project: Class 3 Solar Facility

Proponent Name: SkyPower Limited

Proponent Contact Information: Ms. Grace Pasceri – contact person
Project Planning and Implementation
SkyPower Limited
130 Adelaide Street West, 30th Floor
Toronto, Ontario
M5H 3P5
416-979-4625
Fax 416-981-8686
GraceP@skypower.com

Project Size: total maximum name plate capacity of 10 MW

Project Description: (from IlluminationLight, Draft Project Description Report, Dillon, November 2011)

Solar Modules and Mounting System: Approximately 50,000 – 100,000 PV panels of between 60 – 300 watts each will be installed for IlluminationLight, depending on the final selection of panel type and manufacturer subject to Ontario content requirements...The panels will be aligned in rows approximately 4 – 10 m apart and will be mounted on fixed racking systems which will be attached to galvanized steel support structures....The type of foundation will be determined based on geotechnical studies.

Inverters and Electrical Collector System: DC electricity generated from the panels will be transmitted through underground wires connected to combiner boxes where a number

of incoming wires from the racks will be combined into a single outgoing cable. From the combiner box, the DC current will be transmitted below ground to one of ten inverter stations which will convert the DC electricity into AC electricity suitable for distribution to the local grid. Each inverter station contains two 500 kW inverters. The number of inverters used may vary based on electrical engineering and interconnection requirements. Updated information and further detail will be available at a later date.

Access Roads: The site will be accessed from Regional Road 19. Internal on-site granular access roads will be developed. The location of the access roads and their nature (permanent or temporary) has yet to be determined. Row to row rack spacing will be large enough such that service vehicles can access modules and wiring for maintenance. A central on-site road will allow a service vehicle to laterally access each inverter station directly.

Perimeter Fence and Communications Tower: A perimeter fence will be installed. This will be a chain link fence as required by the Electrical Safety Authority around the perimeter of the project location with gated entrances. A communications tower, approximately 25 metres in height will be constructed as stipulated by Hydro One.

Temporary Storage and Construction Areas: During construction it will be necessary to designate/construct temporary storage/laydown areas for equipment and components as well as parking spaces for facility workers. These areas form part of the project location.

2.0 Identification of Protected Properties at the Project Location

The checklist (MTC 2011: Appendix B) provided by the Ministry of Tourism and Culture addresses the identification of protected properties at the project location. There are no identified concerns addressed by the Ontario Heritage Trust or the Township of Scugog with respect to the checklist presented below.

Figure 1 illustrates the project area.

If you answer YES to any of the following questions you will require: either written authorization as set out in the Table in section 19 of O.Reg. 359/09, or written confirmation that written authorization is not required. Continue until all questions are answered for each property at the project location.			
Description of Property	YES	NO	Where information can be obtained.
Is the property subject to an Ontario Heritage Trust easement agreement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ontario Heritage Trust Local Land Registry Office (title search)
Has a notice of intention to designate been issued by a municipality for the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Municipal Clerk Ontario Heritage Trust
Is the property municipally designated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Municipal Clerk Ontario Heritage Trust Local Land Registry Office (Title search)
Is the property provincially designated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Please see Appendix G
Has a notice of intention to designate been issued by the Minister of Tourism and Culture for the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Please see Appendix G
Is the property subject to a municipal easement agreement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Municipal Clerk Local Land Registry Office (Title search)
Is the property located within a designated Heritage Conservation District?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Municipal Clerk Ontario Heritage Trust
Is the property designated as a historic site under Regulation 880?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Please see Appendix G

Appendix A presents the communication regarding items in the above checklist from the Ontario Heritage Trust.

Appendix B presents the communication regarding one item in the above checklist (i.e. “is the property subject to a municipal easement agreement?” from the Township of Scugog. The Township of Scugog could not identify any municipal easements, so an independent search of the land registry records was conducted SJAHCE for the two properties located at 2580 and 2670 Regional Road 19. The Land Registry office was checked by SJAHCE on January 9, 2012, and there are no municipal easements on either property.

The reference to Appendix G (MTC 2011: Appendix G) in the above checklist refers to the following questions from the Ministry document appendices:

Is the property provincially designated?

Has a notice of intention been issued by the Minister of Tourism and Culture for the property?

Is the property designated as a historic site under Regulation 880?

Appendix G of the MTC document refers to the following items. The response to each item, as it applies to the proposed IlluminationLight Solar Farm, is presented in bold and underlined.

Item 4 in Table included under Section 19 of O. Reg. 359/09. "Currently there are no properties designated by the Minister of Tourism and Culture under section 34.5 of the Ontario Heritage Act."

Item 4. There are currently no properties designated by the Minister of Tourism and Culture under section 34.5 of the OHA.

Item 5 in Table included under Section 19 of O. Reg. 359/09. "A Notice of Intention to Designate was given in accordance with section 34.6 of the Ontario Heritage Act on February 2, 2007 by the ministry for property known as Meldrum Bay Inn, located at 25959 Highway 540 in the unincorporated village of Meldrum Bay, in the Geographic Township of Dawson, in the District of Manitoulin."

Item 5. There is no intent by the proponent to develop a renewable energy project on the property identified in Item 5.

Item 8 in Table included under Section 19 of O. Reg. 259/09. "The following three sites are designated as Historic Sites under Regulation 880 of the Revised Regulations of Ontario, 1990:

- Cahiague Historic Site, Township of Medonte, County of Simcoe, Lot 11, Concession 14;
- Penetanguishene Military and Naval Establishments Historic Site, Township of Tay, County of Simcoe, Lots 122-124, Concession I; Lot 124, Concession II; road allowance Concession I and II; and
- Willow Fort Historic Site, Township of Vespra, County of Simcoe, Lot 14, Concession 11.

Item 8. There is no intent by the proponent to develop a renewable energy project on any of these properties.

Figure 1 shows that none of the protected properties listed above (Items 4, 5 and 8) are located at the project location.

The project infrastructure and areas of direct and indirect impact are not located on any protected property. SJAHCE contacted all of the appropriate bodies or people and determined that the project is not located on that type of protected property. Responses from the Ontario Heritage Trust and Municipal/Deputy Clerk are appended to this report.

In addition, a property inspection was conducted by SJAHCE to ensure that there were no properties, protected, or of potential heritage significance or interest, on the areas of proposed infrastructure or areas of indirect impact. There are two properties abutting the project area, however, neither is more than 40 years of age, and neither have been identified as properties of interest by either the Ontario Heritage Trust or the municipality.

3.0 Consideration of Archaeological Resources at the Project Location – Self-Assessment Checklist

Screening questions	Yes	No	Guidance to Applicant
1. Will any activity related to the project result in ground disturbance?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Keep in mind that if your project requires temporary storage or work areas, or will build temporary roads to enable installation, there may be ground impacts.
If you answered YES, continue to question 2. Documentation to support an answer of YES is not required.			
If you answered NO, an archaeological assessment is not required . Appropriate documentation from the Project Description, Construction, and Operation and Decommissioning Reports demonstrating no ground disturbance will take place, must be included as part of the written summary. It is not necessary to complete the remaining questions in the checklist.			
2. Is there a known archaeological resource on or within 250 metres of the property?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Ministry of Tourism and Culture maintains a database of known archaeological sites in Ontario. Contact the Archaeological Data Coordinator for information about archaeological sites at archaeologicalsites@ontario.ca .
If you answered YES, an archaeological assessment is required . The archaeological assessment reports and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist.			
If you answered NO, a copy of correspondence from MTC's Archaeological Data Coordinator confirming that there are no known sites on or within 250 meters must be included with the written summary. Continue to question 3.			
3. Does the municipality where the project is located have an archaeological management plan that covers the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Several municipalities have developed archaeological management plans (AMP). Contact the clerk of each local municipality and upper-tier (or single-tier) municipality in which the project location is situated to determine if there is a municipal AMP.
If you answered YES, continue to question 4. Documentation to support this answer is not required.			
If you answered NO, a copy of correspondence from the municipality confirming that no AMP exists must be included with the written summary. Continue to question 5.			
4. Is the project located in an area of archaeological potential marked on a municipal archaeological management plan?	<input type="checkbox"/>	<input type="checkbox"/>	AMPs identify areas of archaeological potential that would require an archaeological assessment should development be proposed for the area.
not applicable			
If you answered YES, an archaeological assessment is required . The archaeological assessment reports and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist.			
If you answered NO, a copy of correspondence from the municipality stating that the project is not located in an area of archaeological potential marked on an AMP must be included in the application. Continue to question 5.			
5. Is the total project area smaller than 400 square metres?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If the total project area is less than 400 square meters it is unlikely that it will impact archaeological resources.
If you answered YES, an archaeological assessment is not required . A map of the project area, including a calculation of project area demonstrating that it is less than 400 square meters must be included as part of the written summary. It is not necessary to complete the remaining questions in the checklist.			
If you answered NO, continue to question 6.			
6. Can it be confirmed that the entire project area has been subjected to recent (post-1960) extensive and deep disturbance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Examples include areas subject to: <ul style="list-style-type: none"> Quarrying; Major landscaping involving grading below topsoil; Building footprints and associated construction envelope; Infrastructure development such as sewer lines, gas lines, underground hydro lines, roads and any associated trenches, ditches, interchanges; Heavy-duty vegetation clearing, and depositing large amounts of fill. Activities limited to the topsoil layer such as agricultural ploughing and tilling are not considered deep disturbance.
If the applicant answered YES, an archaeological assessment is not required . The applicant must include a written summary and photographs of previous activity at the project area as part of the written summary.			
If the applicant answered NO, an archaeological assessment is required .			

The above checklist applies to the entire IlluminationLight LP Solar Project.

The proponent is undertaking archaeological assessments for the project.

Scarlett Janusas Archaeological and Heritage Consulting and Education (SJAHCE) was retained to conduct a Stage 1 and 2 archaeological assessment of the IlluminationLight project area. A report of the results of the Stage 1 and 2 archaeological assessment has been accepted into the Ministry of Tourism, Culture and Sport's (MTCS) Public Registry, after undergoing review by the MTCS. The MTCS reviewer agreed with the recommendations of the report, that is, that a Stage 3 archaeological assessment be conducted for three identified archaeological sites. Plans to undertake the Stage 3 archaeological assessment are scheduled for 2012.

4.0 Consideration of Heritage Resources at the Project Location – Self-Assessment

The checklist below and on following pages is a self-assessment tool provided by the Ministry of Tourism, Culture and Sport to determine if the current project will impact a heritage resource. The checklist presents questions with respect to potential heritage resources at the project location.

Screening Question	Yes	No	Guidance to Applicant
Part A: Recognized Cultural Heritage Value:			
1. Is the project area abutting a protected heritage property as described in the table in section 19 of O. Reg. 359/09?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>An abutting protected property is a strong indication that there may be heritage resources at the project location. Therefore, the heritage assessment is needed to identify and evaluate all potential heritage resources at the project location, in addition to evaluating project impacts to the abutting protected properties.</p> <p>The sources of information for this question are the same as those used to address section 19 of O. Reg. 359/09. Refer to Appendix E of this Bulletin.</p>
If you answered YES , a heritage assessment is required. The heritage assessment report and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist.			
If you answered NO , a copy of the correspondences required for Appendix E must be submitted as part of the application. Continue to question 2.			
2. Is the subject property listed on the municipal heritage register, or a provincial register/list?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>Check with the Municipal Clerk, Heritage Planning staff, or the Municipal Heritage Committee to determine if a property is listed on a municipal register.</p> <p>MTC maintains a list of Provincial Heritage Properties.</p>
If you answered YES , a heritage assessment is required. The heritage assessment report and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist.			
If you answered NO , a copy of printouts/screenshots of all relevant queries must be submitted as part of the application. Continue to question 3.			
3. Is there a municipal, provincial or federal plaque on or related to the subject property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>Heritage resources are often recognized with formal plaques or markers. Plaques are erected by municipalities, provincial or federal ministries or agencies, or by local non-government or non-profit organizations.</p> <p>The Municipal Heritage Committee may be a source of information on the location of plaques in their community. Local heritage organizations may also have information on plaques they erected. For information on what local heritage organizations exist in the community, contact the Ontario Historical Society: www.ontariohistoricalsociety.ca</p> <p>The Ontario Heritage Trust (OHT) erects plaques to commemorate Ontario's history. For more information about OHT plaques: www.heritagetrust.on.ca/Resources-and-Learning/Online-Plaque-Guide.aspx</p> <p>The National Historic Sites and Monuments board erects plaques to commemorate Canada's history. For more information: http://www.pc.gc.ca/apps/lhn-nhs/index_e.asp</p>
If you answered YES , a heritage assessment is required. The heritage assessment reports and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist.			
If you answered NO , a copy of correspondence from the municipality and printouts/screenshots of all relevant queries must be submitted as part of the application. Continue to question 4.			

4. Is the subject property a National Historic Site or a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>For more information on National Historic Sites: www.pc.gc.ca/progs/lhn-nhs/index_e.asp</p> <p>A UNESCO World Heritage Site is a place listed by UNESCO as having outstanding universal value to humanity. In order to retain the status of World Heritage Site, each site must maintain its character defining features. For more information on World Heritage Sites in Canada: http://www.pc.gc.ca/eng/progs/spm-whs/index.aspx</p> <p>Currently, the Rideau Canal is the only World Heritage Site in Ontario.</p>
If you answered YES , a heritage assessment is required. The heritage assessment report and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist.			
If you answered NO , a copy of printouts/screenshots of all relevant queries and project area information indicating that it is not within the Rideau Canal Corridor must be submitted as part of the application. Continue to question 5.			
Part B: Potential Cultural Heritage Value			
Built heritage resources. These are defined as significant buildings, structures, monuments, installations or remains associated with architectural, cultural, social, political, economic or military history and are identified as being important to a community.			
5. Can it be confirmed that buildings at the project location are less than forty years old ? Consideration should include:			The land registry office can provide information on the recent history of a property. Historical source materials can also be helpful in determining the age of structures, these include: Directories, photographs, historical atlases, fire insurance maps, and business records.
a) Residential structures (e.g. house, apartment building, shanty or trap line shelter)	<input type="checkbox"/> n/a	<input type="checkbox"/> n/a	<p>For more information on researching the age of buildings or properties, refer to Section 5: Researching a Property of the Ministry of Tourism and Culture's publication "Heritage Property Evaluation, Section 5: Researching a Property at: http://www.mtc.gov.on.ca/en/publications/HPE_Eng_large.pdf</p> <p>A 40 year old threshold is commonly used as an indicator of potential when conducting a preliminary survey for identification of cultural heritage resources. While the presence of a built feature that is 40 or more years old does not automatically signify cultural heritage value, it does make it more likely that the property could have cultural heritage value or interest. Similarly, if all the built features on a property are less than 40 years old, this does not automatically mean the property has no cultural heritage value. Note that age is not a criterion for designation under the Ontario Heritage Act.</p> <p>No structures located on the project area.</p>
b) Farm buildings (e.g. barns, outbuildings, silos, windmills)	<input type="checkbox"/> n/a	<input type="checkbox"/> n/a	
c) Industrial, commercial or institutional operations (e.g. a factory, school, quarries, mining, etc.)	<input type="checkbox"/> n/a	<input type="checkbox"/> n/a	
d) Engineering works (e.g. bridges, water or communications towers, roads, water/sewer systems, dams, canals, locks, earthworks, etc.)	<input type="checkbox"/> n/a	<input type="checkbox"/> n/a	
e) Monuments or Landmark Features (e.g. cairns, statues, obelisks, fountains, reflecting pools, retaining walls, boundary or claim markers, etc.)	<input type="checkbox"/> n/a	<input type="checkbox"/> n/a	
If you answered YES a written summary of historic source materials consulted (with bibliography) must be submitted as part of the application. Continue to question 6.			
If you answered NO , to any part, a heritage assessment is required. The heritage assessment report and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist			

<p>Cultural heritage landscapes. These are defined geographical areas of heritage significance that human activity has modified and that a community values. Such an area involves a grouping(s) of individual heritage features, such as structures, spaces, archaeological sites, and natural elements, which together form a significant type of heritage form distinct from that of its constituent elements or parts. Examples include: villages, parks, gardens, battlefields, mainstreets and neighbourhoods, cemeteries, trails, and industrial complexes of cultural heritage value.</p>		
<p>6. Is there a known burial site and/or cemetery located at or abutting the project location?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <p>The presence of a cemetery can be confirmed through a site visit. Additionally, information on registered cemeteries may be obtained from the Registrar of Cemeteries, Ministry of Consumer Services. The Cemeteries Regulation Unit maintains a database of registered cemeteries: www.consumerbeware.mgs.gov.on.ca/eseach/cemeterySearch.do?eformId=0</p>
<p>If you answered YES to any part, a heritage assessment is required. The heritage assessment report and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist.</p>		
<p>If you answered NO, a copy of printouts/screenshots of the database query indicating that there are no known cemeteries must be submitted as part of the application. Continue to question 7.</p>		
<p>7. Is the project location within a Canadian Heritage River watershed?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <p>The Canadian Heritage Rivers System is a national river conservation program. It promotes, protects and enhances the best examples of Canada's river heritage. Canadian Heritage Rivers must have, and maintain, outstanding natural, cultural and/or recreational values, and a high level of public support. More information is available at http://www.chrs.ca/Main_e.htm</p> <p>Questions regarding the boundaries of a watershed should be directed to the applicable Conservation Authority or municipal staff.</p>
<p>If you answered YES to any part, a heritage assessment is required. The heritage assessment report and MTC's written comments must be included in the application. It is not necessary to complete the remaining questions in the checklist.</p>		
<p>If you answered NO, a map or correspondence from the appropriate conservation authority or municipal staff indicating that the project area is not located within a Canadian Heritage River watershed must be submitted as part of the application. Continue to Part C.</p>		
<p>Part C: Other considerations</p>		
<p>The presence/existence of the following at or abutting the project location is an indicator of cultural heritage value or interest. However, they may be more difficult to verify definitively. Many cultural landscape features are readily visible and could be identified during a site visit.</p>		
<p>Is the property or an abutting property associated with a known architect, landscape architect, planner or builder?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <p>If, over the course of researching the project lands, an association with a known designer/builder is discovered, please indicate so here. This information may arise during public consultation or during conversations with municipal staff.</p>
<p>Is the property or an abutting property associated with a historic road or rail corridor?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <p>Information on historic roads and rail corridors is available on the Canadian County Atlas Digital Project website: http://digital.library.mcgill.ca/countyatlas/SearchMapframes.php</p>
<p>Is the property or an abutting property a park or planned/designed recreational or community space?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <p>These cultural heritage landscapes are readily visible and could be identified during a site visit, or through consultation with the municipality.</p>
<p>Is there accessible documentation to indicate built heritage or cultural heritage landscape potential?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <p>Examples of documentation include: books, local histories, a local recognition program, heritage resource or cultural heritage landscape inventory studies, etc.</p>

Is the subject property or an abutting property associated with a person or event of historic interest?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If, over the course of researching the project lands, an association with a person or event of historic interest is discovered, please indicate so here. This information may arise during public consultation or during conversations with municipal staff.
<p>If YES to any of the above questions, a heritage assessment is required. If uncertain, additional research is required to make this determination, and a heritage assessment is required. The heritage assessment report and MTC's written comments must be included in the application.</p> <p>If NO to all of the above questions, a heritage assessment is not required.</p>			

With respect to number 5 on the above checklist – there were no buildings, monuments, etc. of any kind located on the subject property.

Appendix A and B provide the correspondence for Part A, Question 1.

The Township of Scugog does have a Municipal Heritage Committee.

Mr. Peter Wokral

Chairperson

Heritage Scugog Committee

c/o Craig Belfry, Manager Culture & Recreation

181 Perry St, Box 780

Port Perry, ON L9L 1A7

Tel: 905-985-8698 Ext. 102

Fax: 905-985-1931

Email: cbelfry@scugog.ca

Website: www.township.scugog.on.ca/Heritage_Scugog_.103.php

The Township of Scugog, Mr. Don Gordon, indicated that there are no structures/vistas in the project area that are listed on a municipal heritage register (Appendix B and C).

Appendix D provides print outs for a search for the property indicating that the property is not on a provincial register/list.

Appendix E is a print out from the Ontario Heritage Trust site for historic plaques. There are no plaques directly on the study property. Appendix F is the print out from the Parks Canada site showing that there are no identified properties of interest listed with the National Historic Sites and Monuments Board.

The study area is not part or close to a UNESCO designated World Heritage Site (Figure 1). Appendix G speaks to the only World Heritage Site in Ontario.

There are no structures located directly on the property. A visual assessment of the property confirmed that this is true.

There are no known burial sites or cemeteries located at or abutting the project location. A site visit was conducted by SJAHCE in May of 2011 to verify this aspect of the self-

assessment. The Cemeteries Regulation Unit database of registered cemeteries did not indicate a cemetery on the study property (Appendix H).

There are no nominated or designated heritage river systems within or near the study area (Appendix I).

Appendix J provides the credentials of Scarlett Janusas, of Scarlett Janusas Archaeological and Heritage Consulting and Education.

5.0 Identification of Protected Properties Abutting A Project Location

The following checklists pertains to abutting properties.

If you answer YES to any of the following questions a heritage assessment is required.			
Description of Property	YES	NO	Where information can be obtained.
Is there an abutting property that is subject to an Ontario Heritage Trust easement agreement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ontario Heritage Trust Local Land Registry Office (Title search)
Is there an abutting property for which a notice of intention to designate has been issued by a municipality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Municipal Clerk Ontario Heritage Trust
Is there an abutting property that has been municipally designated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Municipal Clerk Ontario Heritage Trust Local Land Registry Office (Title search)
Is there an abutting property that has been provincially designated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Appendix G
Is there an abutting property for which a notice of intention to designate has been issued by the Minister of Tourism and Culture?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Appendix G
Is there an abutting property that is subject to a municipal easement agreement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Municipal Clerk Local Land Registry Office (Title search)
Is there an abutting property that is part of a designated Heritage Conservation District?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Municipal Clerk Ontario Heritage Trust
Is there an abutting property designated as a historic site under Regulation 880?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Appendix G

Appendix A and B provide information provided by the Ontario Heritage Trust and the Municipal Clerk.

6.0 Conclusions

Scarlett Janusas Archaeological and Heritage Consulting and Education (SJAHCE) was retained to conduct a Stage 1 and 2 archaeological assessment of the IlluminationLight project area. A Stage 1 and 2 archaeological assessment has been completed, reviewed, and accepted into the provincial register by the Ministry of Tourism, Culture and Sport. A recommendation was made to conduct Stage 3 archaeological assessment on three of the four identified archaeological sites.

A property visit was conducted by SJAHCE in the spring and summer of 2011. No buildings or structures were located directly on the project area.

All areas that were to be impacted by access roads, laydown areas, solar panels and infrastructure within the project area were subject to the property visit and review of archival material. It was determined that there were no buildings, structures, monuments, etc. of any kind located on the proposed development areas.

There were no identified areas of cultural heritage concern, as determined by the checklist system of the MTC (2011a) or by the property visit conducted by SJAHCE, other than the outstanding requirement to conduct three Stage 3 archaeological assessments.

7.0 References

Dillon Consulting Limited

2011 Draft IlluminationLight, Draft Project Description Report. November 2011.
Accessed on line.

Government of Ontario

1974 Ontario Heritage Act

2009 Environmental Protection Act

Ministry of Tourism and Culture

2011 Standards and Guidelines for Consulting Archaeologists. MTC web page.

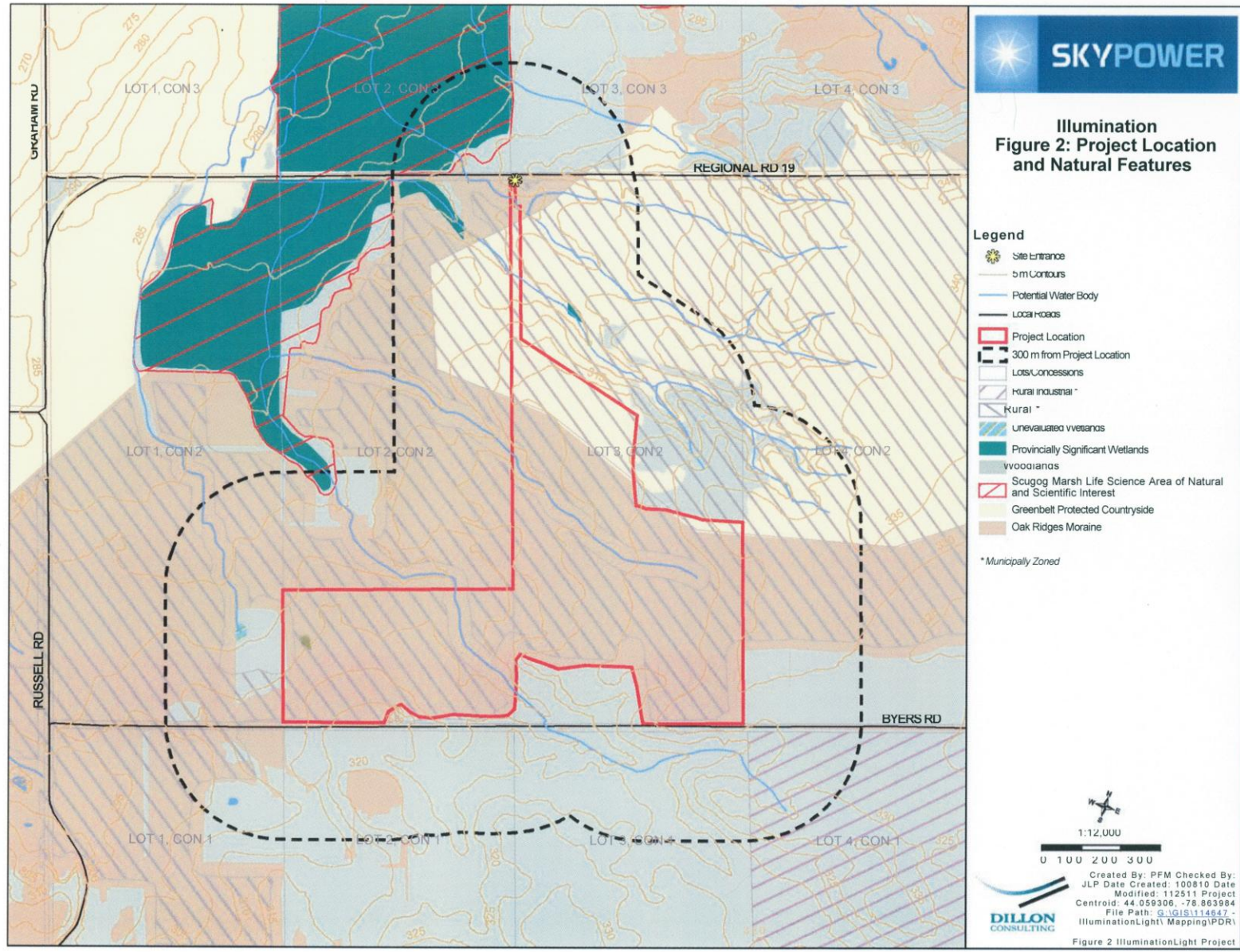
2011 Protected Properties, Archaeological and Heritage Resources: An Information Bulletin for Applicants Addresssign the Cultural Heritage Component of Projects Subject to Ontario Regualtion 359/09 Renewal Energy Approvals. MTC web page.

Scarlett Janusas Archaeological and Heritage Consulting and Education

2011 Stage 1 and 2 Archaeological Assessment, Illumination Light Solar Farm, Part Lot 2 and 3, Concession 2, Part 1, 3 and 4, 40R15034, Part Lot 3, Concession 2, Part 2, 40R15034, Geographic Township of Cartwright, Township of Scugog, Town of Port Perry, Regional Municipality of Durham.

FIGURES

Figure 1 Project Location of IlluminationLight LP Solar Farm



Appendix A – Ontario Heritage Trust Correspondence



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

November 1, 2011

Mr. Jeremy Collins
Acquisitions and Dispositions
Ontario Heritage Trust
10 Adelaide Street East
Toronto, Ontario
M5C 1J3

Via email

Dear Mr. Collins:

**Re: Proposed IlluminationLight Solar Facility
Located on South Side of Regional Road 19
Part Lots 2 and 3, Concession 2, Part 1, 3 and 4, 40R15034
Part Lot 3, Concession 2, Part 2, 40R15034
Geographic Township of Cartwright
Township of Scugog, Town of Port Perry
Regional Municipality of Durham**

I have been retained by SkyPower Limited to conduct the heritage screening (self-assessment) of the proposed IlluminationLight Solar Facility. As part of this study, I am required to obtain information regarding the following from the Ontario Heritage Trust:

1. Has a notion of intention to designate any properties within the study boundaries or abutting the study area been filed by the province for a property?
2. Is the property of abutting area subject to a provincial easement agreement?
3. Is the property of abutting area located within a designated Heritage Conservation District?
4. Are any structures/vistas in the project area listed on a provincial heritage register?
5. Is there a provincial plaque on the subject or abutting area?
6. Any additional concerns regarding this property?

Your assistance in answering these questions is very much appreciated. I have attached a map of the study area for your convenience, and a notice of project update meeting. I have attached a specific map for the proposed solar facility, in addition to the notice of proposal.

Sincerely

A handwritten signature in blue ink that reads "Scarlett Janusas". The signature is written in a cursive, flowing style.

Scarlett E. Janusas, BA, MA, CAHP
President, SJAHCCE



An agency of the Government of Ontario

10 Adelaide Street East
Toronto, Ontario M5C 1J3

Telephone : 416-325-5000
Fax : 416-325-5071
www.heritagetrust.on.ca

VIA MAIL AND EMAIL

January 12, 2012

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

Dear Ms. Janusas:

Re: Illumination Light Solar Facility, Townships of Cartwright and Scugog, Town of Port Perry, Durham Region

We are in receipt of your email dated [date] and the attached Notice of Proposal to Engage in a Renewable Energy Project which identifies the above-noted, proposed renewable energy project and its study area.

As the Province's lead heritage agency, the Ontario Heritage Trust is mandated to preserve, protect and promote the conservation of the Province's rich natural and cultural heritage. In carrying out the above mandate, the Trust protects many significant cultural heritage and natural heritage sites across Ontario through ownership and conservation easements. The Trust also promotes appropriate measures to protect heritage resources which may be affected by large-scale undertakings.

Further to your request for information under s.19 of O. Reg. 359/09, we advise the following:

1. The Trust does not protect any property within or abutting the study area through a provincial conservation easement entered into pursuant to the *Ontario Heritage Act*.
2. To date, the Trust does not possess any record of a section 29 designation (or notice of intention to designate) under the *Ontario Heritage Act* affecting or adjacent to the study area.
3. To date, the Trust does not possess any record of a section 41 designation (or notice of intention to designate) under the *Ontario Heritage Act* affecting the property.
4. No properties in the study area are listed on the provincial heritage register.
5. The Trust's provincial plaque records are formatted by subject, theme and municipality -- a search of these records to determine the location of the plaque can be conducted on-line

at the Trust's website: <http://www.heritagetrust.on.ca/Resources-and-Learning/Online-Plaque-Guide.aspx> Instructions for conducting a search are set out at that location.

In addition to your inquiries with the Trust concerning the possible municipal heritage protection of the property under sections 29 (individual property designation) or 41 (Heritage Conservation District designation) of the *Ontario Heritage Act*, we strongly recommend that you confirm information with the respective municipal clerks for the Township of Cartwright, the Township of Scugog and the Town of Port Perry.

On a final note, we encourage you to contact the Ministry of Tourism, Culture and Sport, if you have not already done so, in order to determine if there are any other cultural heritage interests which may be affected by this project.

Should you have any questions, please contact me at 416 325-5019.

Yours truly,



Sean Fraser
Manager, Acquisitions and Conservation Services

Copy: Chris Schiller, Manager, Culture Services Unit, Ontario Ministry of Tourism, Culture and Sport

Appendix B – Municipal Clerk Correspondence

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
iscarlett@amtelecom.net

November 4, 2011

Municipal Clerk
 Township of Scugog
 Municipal Office
 181 Perry Street, Box 780
 Port Perry, ON
 L9L 1A7

Dear Sir or Madam:

Re: Proposed IlluminationLight Solar Farm
Located on South Side of Regional Road 19
Part Lots 2 and 3, Concession 2, Part 1, 3 and 4, 40R15034
Part Lot 3, Concession 2, Part 2, 40R15034
Geographic Township of Cartwright
Township of Scugog, Town of Port Perry
Regional Municipality of Durham

I have been retained by SkyPower Limited to conduct the heritage screening (self-assessment) of the proposed IlluminationLight Solar Farm. As part of this study, I am required to obtain from the municipal clerk/deputy clerk a letter or email verifying the following:

1. Has a notion of intention to designate any properties within the study boundaries or abutting the study area been filed by the municipality for a property?
2. Is the property of abutting area subject to a municipal easement agreement?
3. Is the property of abutting area located within a designated Heritage Conservation District?
4. Does the municipality have an archaeological master plan that covers the project area?
5. Are any structures/vistas in the project area listed on a municipal heritage register?
6. Is there a municipal plaque on the subject or abutting area?
7. Is the property abutting a park or planned designed recreational community or community space?

Your assistance in answering these questions is very much appreciated. I have attached a map of the study area for your convenience.

Sincerely

A handwritten signature in blue ink that reads "Scarlett Janusas". The signature is written in a cursive style with a large, stylized 'S' at the beginning and a long, sweeping underline.

Scarlett E. Janusas, BA, MA, CAHP
President, SJAHCE

Scarlett Janusas

From: Don Gordon <dgordon@scugog.ca>
Sent: Thursday, December 22, 2011 3:03 PM
To: Scarlett Janusas
Cc: Kim Coates; Craig Belfry; Diane Knutson
Subject: RE: Proposed Illumination Solar Farm

The following are responses to your November 4, 2011 letter concerning the above noted matter:

1. A notice of intention to designate properties within the study boundaries or abutting the study area has not been filed by the municipality.
2. We are unable to confirm whether or not properties within the study area boundaries or abutting are subject to a municipal easement agreement. You would need to do a title search of the property to confirm this.
3. The properties within the study area boundaries or abutting are not located within a designated Heritage Conservation District.
4. The Township does not have an archaeological master plan that covers the project area.
5. No structures/vistas in the project area are listed on a municipal heritage register.
6. There is no municipal plaque on the subject properties or abutting area.
7. The property abutting is not a park or planned/designated recreational or community space.


Donald F. (Don) Gordon, MCIP, RPP
Director of Community Services
Township of Scugog
181 Perry St., Box 780
Port Perry, ON L9L 1A7
905-985-7346 ext. 153

Appendix C – Municipal Heritage Advisory Committee

Scugog Township does have a municipal heritage committee and municipal heritage register. The Director of Community Services, Mr. Don Gordon, has indicated that there are no structures/vistas in the project area on a municipal heritage register (refer to Appendix B).

Appendix D: Canada's Register for Historic Places Search

Data request for Township of Scugog – none of the results are located on or abutting the subject lands.

 Lieux patrimoniaux
du Canada

Une collaboration fédérale-provinciale-territoriale

Sorry! We could not find any results - please try another search using the map above or the form on the side.

ADVANCED SEARCH REGISTER

Keywords

Province / Territory

Location (city)

Jurisdiction

Three-character postal code

Function category

Function



Managed by Parks Canada

Appendix E – Ontario Heritage Trust Plaques

A plaque was identified for the Township of Scugog, but does not have direct bearing on the project location.

Online Plaque search results

1 results have been returned in the order of relevance.

[James Llewellyn Frise](#)

A self-taught illustrator, Frise (1891-1948), who was born on Scugog Island, created the popular cartoon strip "Life's Little Comedies". The strip was subsequently called "Birdseye Center" and appeared in the Star Weekly for more than 25 years.

Appendix F – National Historic Sites and Monuments Board

Search for Township of Scugog - by geographic location and by keyword - 0 results



Parks
Canada

Parcs
Canada

Canada



[Home](#) > [National Historic Sites](#) > [Directory of Designations of National Historic Significance](#) > Search
by Geographic Location

• **Directory of Designations of National Historic Significance**

○ **Introduction**

Directory of Designations of National Historic Significance of Canada

No documents found. [Return](#)

■ = National Historic Site

● = National Historic Person

▲ = National Historic Event

Date Modified: 2005-02-22



Parks
Canada

Parcs
Canada

Canada



[Home](#) > [National Historic Sites](#) > [Directory of Designations of National Historic Significance](#) > Search
by Keyword

• **Directory of Designations of National Historic Significance**

○ **Introduction**

Directory of Designations of National Historic Significance of Canada

No documents found for **township of scugog**. [Return](#)

■ = National Historic Site

● = National Historic Person

▲ = National Historic Event

Appendix G – UNESCO World Heritage Site

Rideau Canal Waterway - World Heritage Site Designation

Page 1 of 4



**World
Heritage**

Quick Menu

Your location: [Rideau Region](#) > [Rideau Waterway Home](#) > [World Heritage Site Designation](#)

Rideau Canal World Heritage Site

On June 27, 2007, the Rideau Canal and Kingston Fortifications were inscribed as a UNESCO World Heritage Site by UNESCO's World Heritage Committee.

The site is made up of six elements, the **Rideau Canal** (lockstations and waterway), and the fortification sites in Kingston which consist of **Fort Henry**, **Fort Frederick**, **Cathcart Tower**, **Shoal Tower**, and **Murney Tower**. The boundaries of the Rideau Canal consist of the high water mark of the slackwater canal sections and the Parks Canada Agency's property at the twenty four lockstations. The boundaries of the Kingston fortifications are defined by Parks Canada Agency and Department of National Defence property. The buffer zone is a 30 metre wide zone adjacent to the boundaries of the site.

UNESCO Designation Information:

Date of Inscription: 2007

Criteria: (i)(iv)

Core zone: 21454.81 ha

Buffer zone: 2363.2 ha

Province of Ontario

N44 59 39.79 W75 45 54.45

Ref: 1221

The Rideau Canal was selected based on two of UNESCO's World Heritage criteria. These are Criteria (i); to represent a masterpiece of human creative genius, and Criteria (iv); to be an outstanding example of a type of building, architectural or technological ensemble or landscape which illustrates (a) significant stage(s) in human history.

UNESCO Statement of Outstanding Universal Value :

The Rideau Canal is a large strategic canal constructed for military purposes which played a crucial contributory role in allowing British forces to defend the colony of Canada against the United States of America, leading to the development of two distinct political and cultural entities in the north of the American continent, which can be seen as a significant stage in human history.

Criterion i: The Rideau Canal remains the best preserved example of a slackwater canal in North America demonstrating the use of European slackwater technology in North America on a large scale. It is the only canal dating from the great North American canal-building era of the early 19th century that remains operational along its original line with most of its original structures intact.

Criterion iv: The Rideau Canal is an extensive, well preserved and significant example of a canal which was used for a military purposes linked to a significant stage in human history - that of the fight to control the north of the American continent.

Description of Property:

Serial ID Number	Name & Location	Coordinates	Area

1221-001	Rideau Canal Province of Ontario, Canada	N44 59 39.79 W75 45 54.45	Core zone: 21427.07 Ha Buffer zone: 2334.78 Ha
1221-002	Fort Henry, Kingston Province of Ontario, Canada	N44 13 51.41 W76 27 35.7	Core zone: 23.9 Ha Buffer zone: 11.88 Ha
1221-003	Fort Frederick, Kingston Province of Ontario, Canada	N44 13 40.64 W76 28 10.61	Core zone: 3.1 Ha Buffer zone: 3 Ha
1221-004	Cathcart Tower, Cedar Island Province of Ontario, Canada	N44 13 31 W76 27 14	Core zone: 0.25 Ha Buffer zone: 9.15 Ha
1221-005	Shoal Tower, Kingston Province of Ontario, Canada	N44 13 43.88 W76 28 41	Core zone: 0.32 Ha Buffer zone: 1.68 Ha
1221-006	Murney Tower, Kingston Province of Ontario, Canada	N44 13 19.71 W76 29 25.22	Core zone: 0.17 Ha Buffer zone: 2.71 Ha

UNESCO's Site Description:

The Rideau Canal, a monumental early 19th-century construction covering 202 km of the Rideau and Cataraqui rivers from Ottawa south to Kingston Harbour on Lake Ontario, was built primarily for strategic military purposes at a time when Great Britain and the United States vied for control of the region. The site, one of the first canals to be designed specifically for steam-powered vessels, also features an ensemble of fortifications. It is the best-preserved example of a slackwater canal in North America, demonstrating the use of this European technology on a large scale. It is the only canal dating from the great North American canal-building era of the early 19th century to remain operational along its original line with most of its structures intact. (from: whc.unesco.org/en/list/1221/)

Background:

The Rideau Canal was built by the British government, between 1826 and 1832, under the supervision of Lt. Colonel John By, a Royal Engineer. The engineering design of the canal was done by Lt. Col. By and his fellow Royal Engineers. It was constructed using independent contractors who hired workforces consisting of tradesmen (masons, carpenters, blacksmiths) and labourers, primarily French-Canadian and immigrant Irish. Most of the work was done by hand (picks, shovels, wheelbarrows) with the aid of some draft animals. An unknown number of the workforce died of disease and accident.

The logistical and engineering challenges they faced were severe: the proposed canal was a 202 kilometre-long waterway composed of a series of rivers and lakes, linked by 47 large stone locks. Dams were built to raise the water level to navigation depth (slackwater canal system), and weirs constructed at most lockstation to control the water levels. For defensive purposes, a series of blockhouses and later, defensible lockmasters' houses, was erected along the route. All of this work was done in the largely unsettled, often swampy wilderness between the Ottawa River and Lake Ontario. The canal was completed in the winter/spring of 1831/32. With the addition of the Grenville Canal on the Ottawa River, completed in 1834, steam vessels could travel from the port of Montréal up the Ottawa River to Ottawa (then called Bytown), through the Rideau Canal to Lake Ontario at Kingston. Here, Fort Henry (built 1832-36) protected the southern approaches to the Rideau Canal and the important British naval base at Kingston.

The purpose of the canal was clear: it was designed to fill one key gap in Britain's colonial

military defences by providing a safe, defensible inland route for the transportation of troops and military supplies between Montréal and the Great Lakes in times of conflict. Because the St. Lawrence River was exposed to American attack, the Rideau Canal offered a viable means of defending Britain's hold on its colonies north of the United States against possible military attack, while encouraging settlement and commercial trade opportunities in the region.

Although the Rideau Canal provided an effective military deterrent, it never had to be used in wartime. It immediately took on a more commercial role as a significant trade route between the Great Lakes and Montréal. It also became the main transportation route for immigration into Upper Canada. The completion of canals in the late 1840s along the St. Lawrence River meant that, by the 1860s, the Rideau's role had changed from a central transportation artery to an important local communications and trade route for Eastern Ontario. The rise of tourism, pleasure boating, and the cottage phenomenon in the late 19th century gave the canal a recreational function which now constitutes its primary use.

The Rideau Canal was designated a National Historic Site of Canada in 1925 because it constitutes a unique historical environment within the Canadian canal system. An early and important example of the construction of that system, it is distinguished by the survival of a large number of original canal structures, including locks, blockhouses, dams, weirs and original lockmasters' houses, and is notable for the high degree of integrity of most of its lockstations.

In 2000, it was designated as a Canadian Heritage River for its outstanding historical and recreational values. Originally built for military use, it quickly became the "highway" for early settlement and commercial traffic. It has an absolutely unique assemblage of working historical buildings and engineering structures that is unequalled anywhere in Canada. The Rideau Waterway is unique to the Canadian Heritage Rivers System in that it is the first waterway based on a Heritage Canal to be recognized as a Canadian Heritage River.

The Rideau Canal truly deserves its "Triple Crown" designation as a National Historic Site of Canada, a Canadian Heritage River and a UNESCO World Heritage Site. These designations will help to preserve and enhance the heritage integrity of the canal for generations to come. The reason why this is important was perhaps best stated by the Auditor General of Canada, in her 2003 report concerning the upkeep/preservation of heritage structures such as the Rideau Canal:

"These places recall the lives and history of the men and women who built this country, and they foster awareness of how Canadian society evolved. They help us to better understand the present and prepare for the future. They contribute in important ways to Canadians' sense of belonging to their community. When important parts of Canada's built heritage are lost, future generations of Canadians are deprived of access to key moments of their shared history."

For more information about the Rideau's World Heritage designation:

UNESCO's site description:
whc.unesco.org/en/list/1221

Parks Canada's World Heritage Nomination Document:
www.pc.gc.ca/lhn-nhs/on/rideau/plan/plan2_e.asp

Appendix H – Cemetery Record

for Lot 2, Concession 2



MINISTRY OF CONSUMER SERVICES

[Data last updated on Jan 7, 2012 at 09:56 hours]

Search Results

Your search result on County/District: **DURHAM, REGIONAL MUNICIPALITY OF**, Municipality: **SCUGOG, TWP OF**, Lot: **2**, Concession: **2**, requested on Jan 7, 2012 returns 0record. Please verify your search criteria or [click here for search tips](#).

Lot 3, Concession 2



[Skip to content](#) [Ontario.ca](#) [Français](#)

MINISTRY OF CONSUMER SERVICES

[Data last updated on Jan 7, 2012 at 09:56 hours]

Search Results

Your search result on County/District: **DURHAM, REGIONAL MUNICIPALITY OF**, Municipality: **SCUGOG, TWP OF**, Lot: **3**, Concession: **2**, requested on Jan 7, 2012 returns 0record. Please verify your search criteria or [click here for search tips](#).

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Appendix I – Canadian Heritage Rivers

No Canadian Heritage River in the subject area.



APPENDIX J – SUMMARY OF AUTHOR’S CREDENTIALS

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

COMPANY PROFILE

Scarlett Janusas Archaeological and Heritage Consulting and Education is a consulting firm with several area representatives in Sudbury, the Greater Toronto Area, Niagara-on-the-Lake, Kingston, and Tobermory, Ontario.

Staff and associates include:

- Ms. Scarlett Janusas, President of the company, and an experienced underwater and land based archaeologist, with experience in both prehistoric and historic archaeology, and over 30 years’ experience.
- Ms. Sue Bazely, archaeologist and education coordinator with over 30 years’ experience;
- Mr. John Grenville, cultural resource specialist with over 30 years of experience;
- Patrick Folkes, a recognized marine historian with over 40 years research experience;
- Mr. Rodolphe Fecteau, an archaeo-botanist with over 35 years’ experience;
- Mr. Douglas Sweiger, a material culture specialist in small arms and military history with over 30 years’ experience;
- Mr. David Gilchrist, a marine archaeologist and teaching specialist with over 30 years’ experience;
- Ms. Dalyce Newby, an historic researcher and black history specialist with over 25 years’ experience;
- Ms. Gina Martin, land conveyancer, historian, and genealogist with over 25 years’ experience;
- Mr. Rob Rouse, GIS specialist, with over 10 years’ experience;
- Access to sub-contractors such as McQuest Marine and Shark Marine for marine projects.

Our vast experience allows us to offer our clients a multitude of services including both land and underwater archaeology, prehistoric and historic archaeology, heritage screening and cultural heritage assessments. The company has licensed archaeologists under the requirements of the Ontario Heritage Act and is able to conduct Stage 1 (background research), Stage 2 (preliminary field assessment), Stage 3 (definitive field assessment) and Stage 4 (complete site mitigation) for all archaeological projects. In addition, we have the resources to offer our clients follow-up services such as development of interpretative displays, hands-on education, and educational course development.

SCARLETT JANSUAS

Scarlett E. Janusas – President, SJAHCE

Scarlett E. Janusas is a licensed consulting archaeologist under the Ontario Heritage Act, R.S.O. 1990 (P027); and is able to hold underwater archaeological permits as well. Scarlett Janusas is the project manager and field director for the various projects undertaken by the firm. She received her BA in Anthropology/Archaeology from the University of Western Ontario and an MA in Anthropology/Archaeology from Trent University. Scarlett has over 33 years of archaeological experience with private sector, federal, provincial and municipal governments. She has directed land-based and underwater archaeological projects for Scarlett Janusas Arch. & Her. Cons. & Education, Mayer Heritage Consultants Inc., Scarlett Janusas and Associates Inc., Golder Associates, the Regional Municipality of Waterloo, the Toronto Historical Board, the Canadian Parks Service and the London Museum of Archaeology. In those various capacities, she has undertaken more than 200 cultural impact assessments including site mitigation and development of cultural resource management plans for clients in Ontario and other parts of eastern Canada.

As the former Regional Archaeologist for the Regional Municipality of Waterloo, Ms. Janusas provided expert advice on archaeological matters regarding archaeological potential of the Regional, and planning and development policies to municipalities, developers, planners, engineers and archaeological consultants. She authored the R.M. of Waterloo Archaeological Master Plan and has been approached or met with various municipalities with regard to possibly implementing a similar plan in Hamilton-Wentworth, Peel, Halton, Niagara and Muskoka. She has undertaken research and special studies in support of management decisions on archaeological matters and acted as a liaison between the Regional Municipality and the Province (OMC). She also developed a regional policy for the management of archaeological resources and was a member of the Regional Official Policies Plan Management Team – review of heritage policies. She is currently (2004) updating the R.M of Waterloo's Archaeological Master Plan after its inception in 1989.

Ms. Janusas conducted the marine heritage component for the archaeological master plan for the Christian Island First Nations. She was the principal investigator in the Georgian Bay Submerged Prehistoric Shoreline Study working jointly with the Geological Survey of Canada and the Canadian Parks Service. She has completed three underwater projects in Kingston: the Stage 1 archaeological assessment for a proposed wind farm, submerged portion, a proposed Stage 1 and 2 archaeological assessment of a groin improvement in front of Macdonald Park for the City of Kingston; and, the inner harbour study of the Great Cataraqui River for a proposed bridge crossing. In addition, Ms. Janusas has conducted full excavation of a shipwreck in the St. Clair River, and a heritage assessment of a side wheeler in the Ottawa River. Additional projects include underwater heritage assessments near Barrie, Orillia, and Pembroke. Ms. Janusas also assisted in the archaeological excavation of a Spanish Basque whaling ship (1565) in Red Bay, Labrador.

She is currently involved in the Stage 1-4 assessments of multiple renewable energy projects across the province, and continues to conduct archaeological assessments for proposed subdivisions, condominium site plans, zone changes, recreational facilities, roads, golf courses, reservoirs, energy-related projects, transmission line projects, specific site impact studies, interpretation studies and cultural resource management plans. Scarlett has also actively conducted self-assessments for renewable energy projects and cultural heritage assessments for REA's and other development projects.

Some renewable energy clients include: Schneider Power Inc., Dillon Consulting, MacViro Consultants, Helimax, Genivar, SkyPower Limited, Penn Energy, Acres International, and M.K. Ince and Associates.

Heritage screening/self-assessments and full cultural heritage assessments have been conducted for METRUS (11960 and 11098 Dixie Road, Brampton, and 4 heritage properties in adjacent block); City of Mississauga (property on Eglinton Road), Glenarm Solar project – Helimax, Val Caron Solar Farm – Helimax, Northumberland County – Penn Energy, two solar projects; 13 solar projects in Eastern and central Ontario for SkyPower; two transmission lines for Dillon Consulting, Dufferin Wind Farm for Dillon Consulting, additional lands for Dillon Consulting. This is a sample of self assessments and cultural heritage assessments conducted by Scarlett Janusas.

A sample of SJAHCE's additional clients include: City of Kingston, Harold Sutherland Construction, BOT Construction, Henderson Paddon and Associates, DST Engineering Ltd., Superior Aggregates Inc., the Toronto and Area Conservation Authority, E.C. King Contracting, the City of Pembroke, DOW Chemical, Pollutech EnviroQuatics Ltd., Drysdale Aggregate Consulting, JL Richards and Associates, Toyboat Developments, Davis and McLay Developments, Metrus Developments, and the Township of Proton. Projects for these clients included Stage 1 - 4 archaeological assessments.

Unique among archaeologists, she is recognized as both a prehistoric and an historic archaeologist, and is therefore qualified to analyze and interpret sites of all ages. Ms. Janusas brings with her special skills allowing access to difficult sites such as those inundated or found in hard to reach places (certified SCUBA diver, rock-climbing certification, kayaking certification).