

Ministry of Tourism,
Culture and Sport

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de la Culture et du Sport

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September 18, 2012

Penn Energy Renewables, Ltd.
1 Yonge St. Suite 1801
Toronto, ON M5E 1W7

Attn.: Glen Tomkinson [glen@pennrealestategroup.com]

RE: Ridgefield Solar Project

Part Lot 5, Concession 10, Geographic Township of Fenelon, City of Kawartha Lakes

FIT Application: FIT #FITFRZ1

FIT Contract: F-001549-SPV-130-505

MTC File HD000678

MTC PIFs P025-223-2011 & P025-245-2012

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 or the 2011 Standards and Guidelines for Consultant Archaeologists (whichever apply). Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the report(s).*

Archaeological Assessment Report Entitled, *Stage 1 and 2 Archaeological Assessment of the Penn Energy - Ridgefield Solar Project, Part Lot 5, Concession 10, Geographic Township of Fenelon, City of Kawartha Lakes (FIT - FITFRZI)*, dated December 20, 2011, received MTCS Toronto Office, December 23, 2011, recommends the following:

The presence of a single diagnostic artifact does not constitute a site or warrant further archaeological investigation as per Standard 1, Section 2.2 of the 2011 MTC Standards and Guidelines. As no other material was found, either associated with the artifact recovered or otherwise, it is therefore the recommendation of this report that full clearance of the subject property as outlined in this report be granted.

Archaeological Assessment Report Entitled, *Additional Stage 2 Archaeological Assessment of the Penn Energy - Ridgefield Solar Project, Part Lot 5, Concession 10, Geographic Township of Fenelon, City of Kawartha Lakes. FIT Application # FIT-FITFRZ1 FIT Contract F-001549-SPV-130-505*, dated June 06, 2012 received by MTCS September 18, 2012, recommends the following:

As there were no archaeological materials recovered during this assessment, it is the recommendation of this report that full clearance of the subject property as outlined in this report be granted.

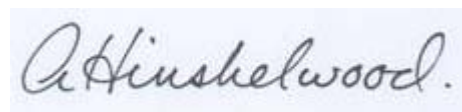
The Ministry is satisfied with these recommendations.

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,

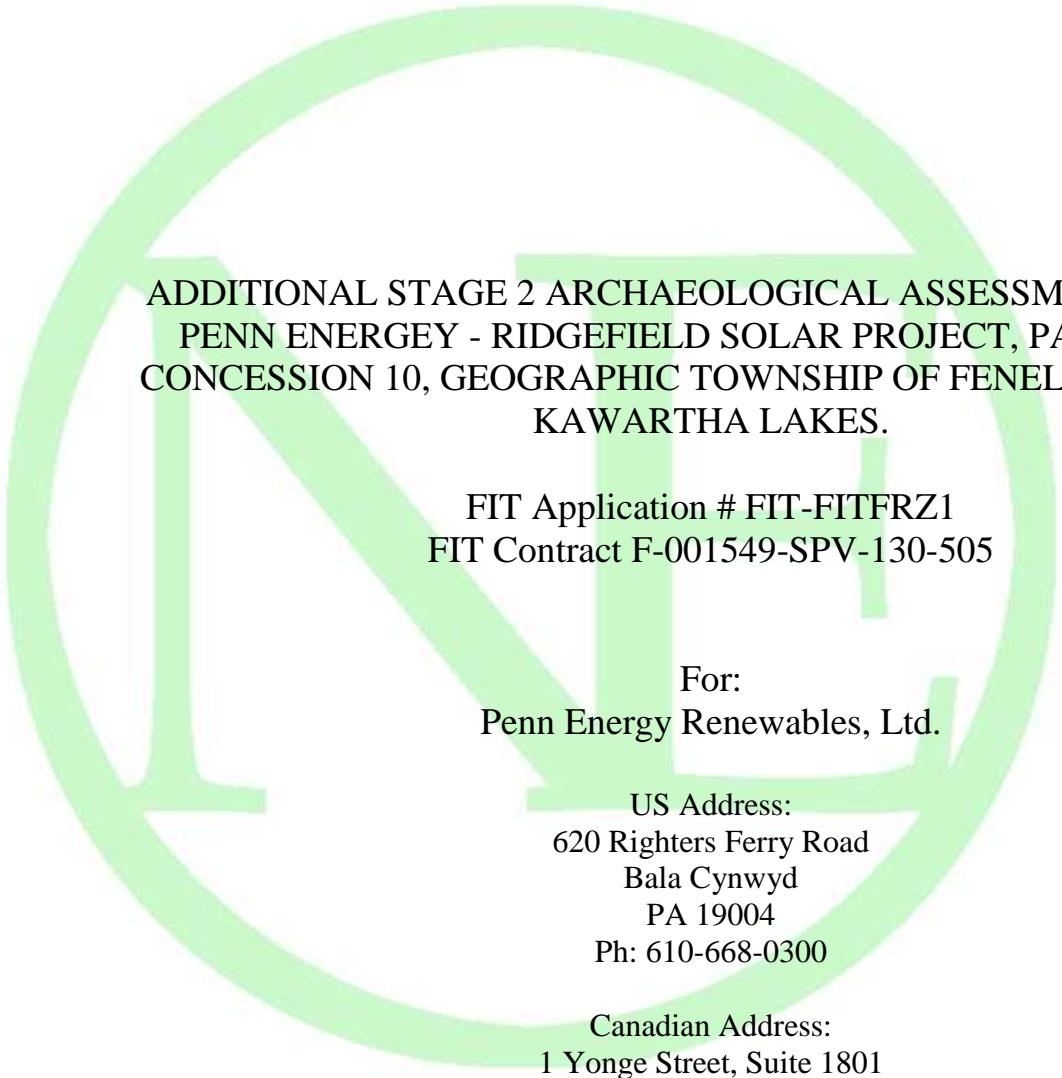


Andrew Hinshelwood
Archaeology Review Officer

cc. L. Jackson
Northeastern Archaeological Associates
PO Box 493
Port Hope, ON L1A 3Z4

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* 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.



ADDITIONAL STAGE 2 ARCHAEOLOGICAL ASSESSMENT OF THE
PENN ENERGY - RIDGEFIELD SOLAR PROJECT, PART LOT 5,
CONCESSION 10, GEOGRAPHIC TOWNSHIP OF FENELON, CITY OF
KAWARTHA LAKES.

FIT Application # FIT-FITFRZ1
FIT Contract F-001549-SPV-130-505

For:
Penn Energy Renewables, Ltd.

US Address:
620 Righters Ferry Road
Bala Cynwyd
PA 19004
Ph: 610-668-0300

Canadian Address:
1 Yonge Street, Suite 1801
Toronto, Ontario
M5E 1W7

From:
Northeastern Archaeological Associates Ltd.
Licenced to: Dr. Lawrence Jackson (P-025)
PIF#: P-025-245-2012

June 06, 2012

Northeastern Archaeological Associates Limited
P.O. Box 493,
Port Hope, Ontario
L1A 3Z4
905-342-3250

EXECUTIVE SUMMARY

In the spring of 2012, Northeastern Archaeological Associates Limited was contacted by Penn Energy Renewables Ltd. requesting that, in compliance with the requirements outlined by the MTC and the Renewable Energy Approval Regulation (O.Reg. 359/09), an archaeological assessment be conducted in part of Lot 5, Concession 10 in the Geographic Township of Fenelon, City of Kawartha Lakes, Ontario, at the location of the proposed 25 hectare Ridgefield Solar Energy Generation Facility. This contract was for additional work resulting from changes to the original project boundary defined in report P-025-223-2011. The property is located north of the Town of Lindsay on Kennedy Bay Road. Stage 1 research conducted in relation to this property indicates that it is of high archaeological potential, as outlined by the *Ministry of Tourism, Culture and Sport*, due to its topography, proximity to water sources, and areas of historic development. All Stage 2 testing on this property therefore took place at high potential (5 meter) intervals. The proposed development lands consist of small overgrown grassland areas between the farm's pastures and two collapsed barn structures. The property was therefore test-pit surveyed up to within one meter of the barn structures in accordance with Ministry standards (MTCS S&G, 2011). Testing was conducted under clear and visible conditions in the spring of 2012. This survey did not result in the recovery of any culturally significant artifacts. Consequently, it is the recommendation of Northeastern Archaeological Associates Limited that the development property be cleared for development. If any archaeological resources should be discovered during the course of development, all excavation must stop immediately and an archaeologist must be contacted.

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1.0 PROJECT PERSONNEL

Project Director:	Dr. Lawrence Jackson (P-025)
Field Supervisor:	Justin Tighe (R-421), Marika Atfield (R-333)
Field Assistants:	Myles Allen (Northeastern Arch.)

2.0 PROJECT CONTEXT

2.1 Development Context

In compliance with the Ontario Ministry of Tourism and Culture requirements regarding land development, a contract to carry out a pre-approval Stage 1 and 2 archaeological assessment of the proposed Ridgefield Solar Generation Facility was awarded to Northeastern Archaeological Associates Limited by Penn Energy Renewables on May 10, 2012. The property in question consists of approximately 0.5 of a hectare of overgrown grasslands and laneway between the farm's previously assessed pastures and two collapsed, fenced in timber frame barns in the process of being removed the current landowner/farmer, as shown in Map 10.2. The proposed development includes installation of solar arrays over the bulk of the entire property's open areas as shown in the development plan (Map 10.2). Permission to enter the property was granted by the proponent. This report represents a complete record of all additional activities conducted in relation to the site.

2.2 Historical Context

The subject property is the former Township of Fenelon, Victoria County, Ontario. There is no name listed on the 1881 Historic Atlas map for the subject property or the majority of the surrounding parcels (see Map 10.4). (Belden & Co. 1881, Alexander Pub. 2000). The 1892 Rural Directory for Victoria County for the Township of Fenelon lists James Brien as the freeholder of Lot 5, Concession 10. This is consistent with the 1916 Fenelon map which shows a Jas O'Brien as the owner (Belden & Co. 1881, Alexander Pub. 2000). These are very probably the same person, as there is only a slight difference in the names.

2.3 Archaeological Context

The subject property is located in the Peterborough Drumlin Field physiographic region of southern Ontario (Chapman and Putnam 1973). The Peterborough Drumlin Field is a rolling till plain of about 1,750 square miles lying between the Oak Ridges Moraine and the shallow overburden on the Black River Limestone Plain. With the City of Peterborough as its geographic center, it includes about 3,000 drumlins as well as numerous drumlinoid hills and surface flutings of glacial drift cover. Trenton limestone underlies most of the area. Dominant area soils are Otonabee Loam and Bondhead Loam.

Soils are generally stony due to uplifting of the calcareous lower horizon by ploughing. Locally, the subject property is in an area of drumlinized till plain, just south of the Dummer Moraine till plain, and east of a large glacial esker. (Chapman and Putnam 1973). Limestone bedrock is very close to the surface over much of the property and is visible on exposed slopes to the north, north-west, and south-east of the development area.

A search of the archaeological sites data base of the Ontario Ministry of Tourism and Culture by data co-ordinator Robert von Bitter on May 02, 2011 did not reveal the existence of any registered sites within a 2km radius of the subject property.

3.0 FIELD METHODS

This property is considered high potential according to the 2011 standards set out for Consultant Archaeologists by the Ministry of Tourism, Culture and Sport due to its proximity to Sturgeon Lake, as well as its elevated topography and proximity to areas of historic development. In accordance with these standards, all testable portions of the property were surveyed at a high potential 5 meter test interval up to within 1 meter of the barn structures as per Section 2.1.2, Standard 4, MTCS 2011. Testing methodology and location/orientation of work photos are illustrated in Maps 10.2 and 10.3.

Approximately 30% of the additional property assessed consisted of two collapsed timber frame barns in the process of being removed by the current landowner/farmer, as well as a gravel roadway. The remaining 70% of the additional property was fenced in grassland, and was therefore shovel tested to within 1 meter of the barn structures, as per Sec. 2.1.2, Standard 4, MTCS 2011. Please refer to Images 9.1 through 9.5. All shovel tests were of a minimum diameter of 30cm, and were excavated into the first 5cm of sterile subsoil. Test-pits were examined for evidence of cultural features, stratigraphy, or signs of disturbance. Soil from test-pits was processed using 6mm mesh rocker screens. All units were backfilled. The assessment was carried out under conditions of clear visibility on May 21, 2012. There were no archaeological materials recovered during this additional assessment. Fieldwork for this assessment generated a total of 12 photos, and 1 page of field notes.

4.0 RECORD OF RECOVERED ARCHAEOLOGICAL MATERIALS

There were no archaeological materials recovered from the subject property as a result of this assessment.

5.0 ANALYSIS AND CONCLUSIONS

Additional Stage 2 archaeological testing in the spring of 2012 of the subject property conducted in accordance with the Standards and Guidelines outlined by the Ministry of Tourism, Culture and Sport did not result in the recovery of any archaeological materials.

6.0 RECOMMENDATIONS

As there were no archaeological materials recovered during this assessment, it is the recommendation of this report that full clearance of the subject property as outlined in this report be granted.

7.0 ADVICE ON COMPLIANCE WITH LEGISLATION

- a.** This report is submitted to the Minister of Tourism and Culture as a condition of licencing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Tourism and Culture, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.
- b.** It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licenced archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.
- c.** Should previously undocumented archaeological resources be discovered, they may be a new 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 licenced consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*.
- d.** The *Cemeteries Act*, R.S.O. 1990 c. C.4 and the *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.

Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the *Ontario Heritage Act* and may not be altered, or have artifacts removed from them, except by a person holding an archaeological licence.



8.0 REFERENCES CITED

Belden, H. and Co.

1881 **Illustrated Historical Atlas of the Counties of Northumberland and Durham, Ont.** Toronto.

2000 Millennium Edition with additions, Edited by E. Phelps, Alexander Publishing, Ancaster, ON.

Chapman, L.J. and D.F. Putnam

1973 **The Physiography of Southern Ontario.** 2nd Edition, Toronto.

MTC

2010, **Standards & Guidelines for Consultant Archaeologists.** Queens Printer for Ontario.

Northeastern Archaeological Associated Limited.

2011 **Stage 1 and 2 Archaeological Assessment of the Penn Energy – Ridgefield Solar Project, Part Lot 5, Concession 10, Geographic Township of Fenelon, City of Kawartha Lakes.** MTC report files.

9.0 IMAGES



Image 9.1: Oriented N, View of Shovel Testing in West End of Property.



Image 9.2: Oriented N, Test-Pit Survey North of Barn Foundation.

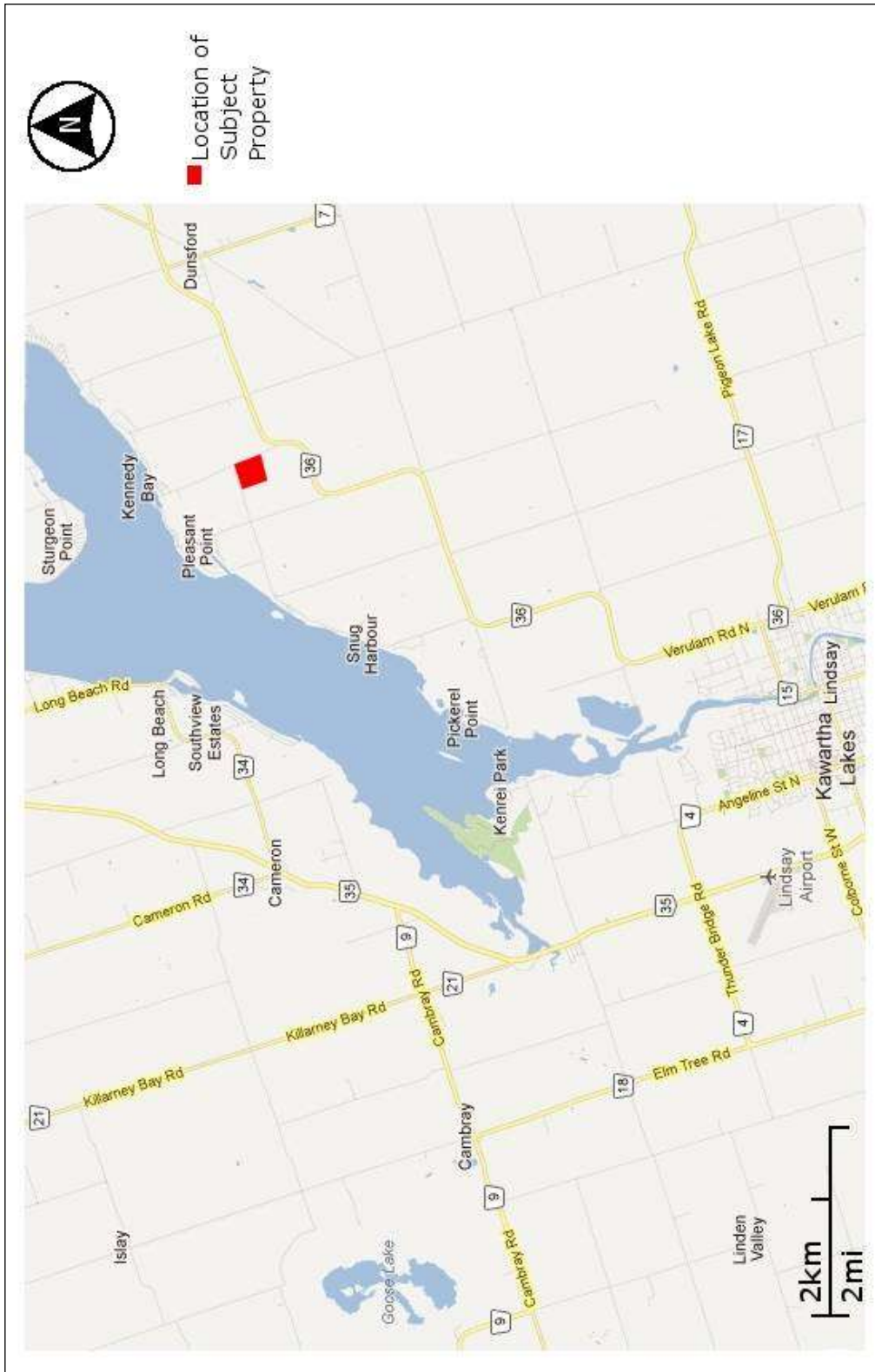


Image 9.3: Oriented SE, Test-Pit Survey in Northern Paddock Area.



Image 9.4: Oriented S, View of Shovel Testing North of Barn Foundation.

10.0 MAPS



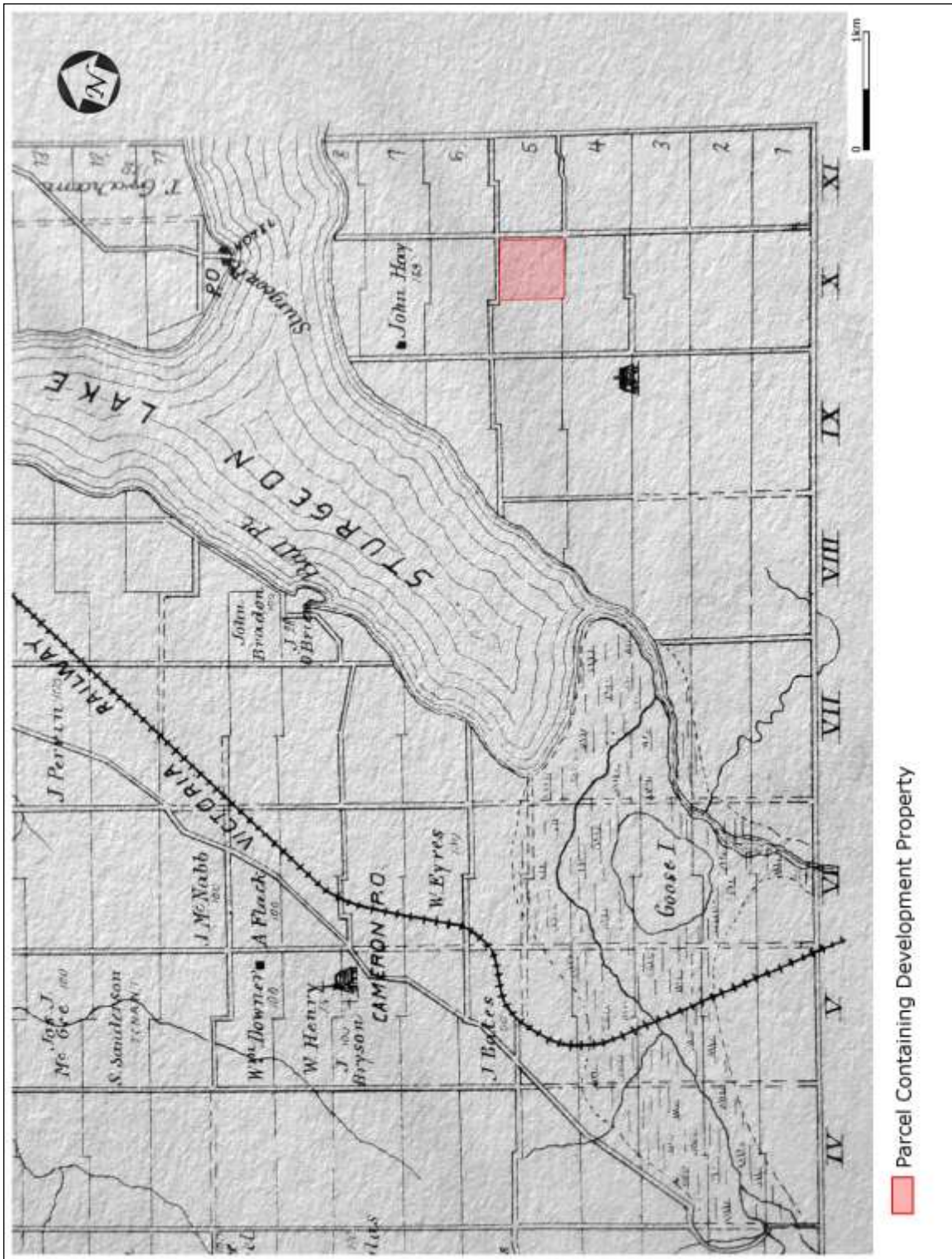
Map 10.1: Location of Subject Property on SE side of Sturgeon Lake.



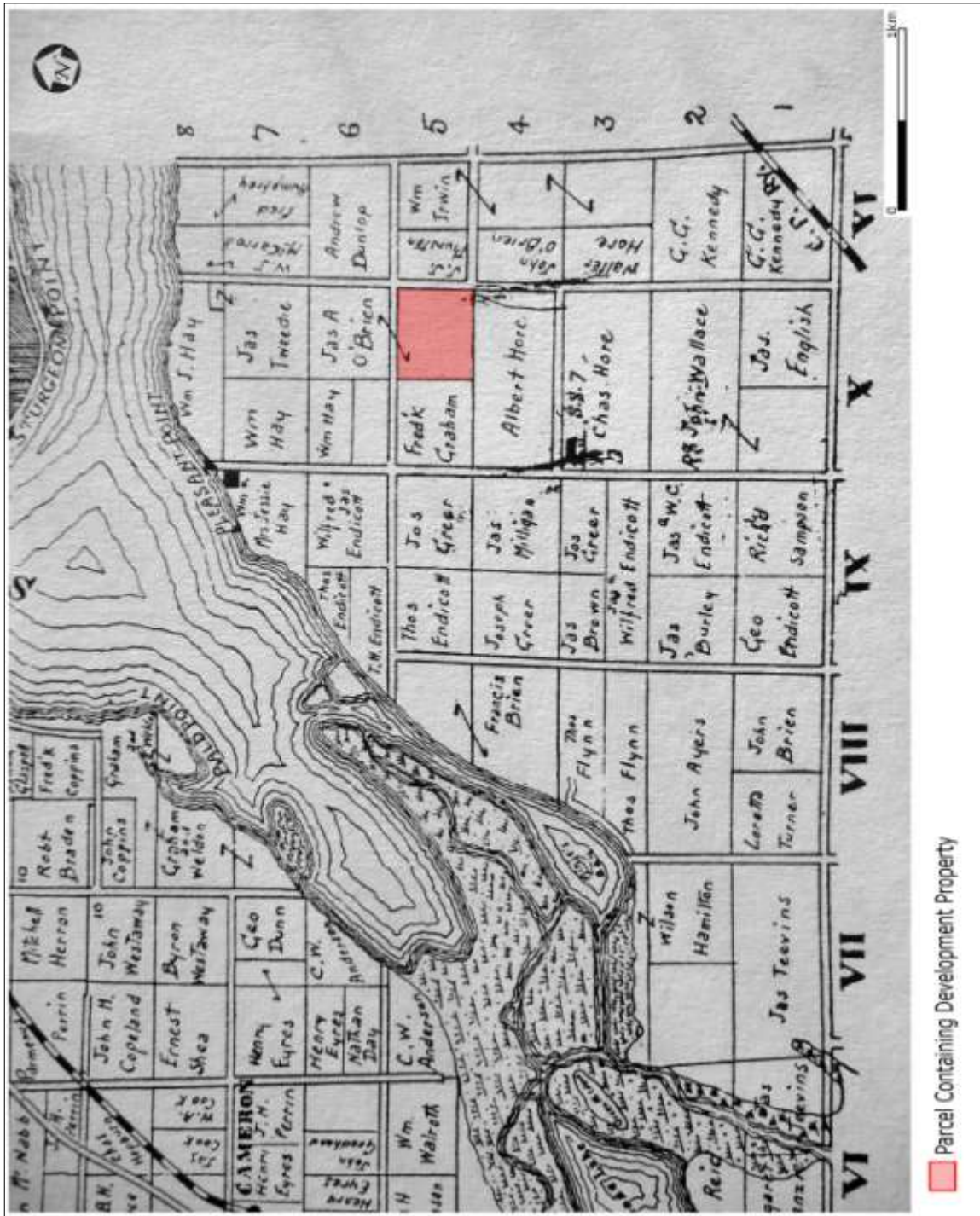
Map 10.2: Stage 2 Methodology Overlaid on Draft Plan
 Provided by Penn Energy Renewables, Ltd.



Map 10.3: Location and Direction of 2012 Survey Photos.



Map 10.4: 1881 Historic Atlas Map Showing Location of Development Property (After Belden & Co. 1881, Alexander Pub. 2000)



Map 10.5: 1916 Historic Atlas Map Showing Location of Development Property (After Belden & Co. 1881, Alexander Pub. 2000).