



**ACC**

ARCHAEOLOGICAL  
CONSULTANTS CANADA

# Stage 1 & 2 Archaeological Assessment

Proposed Residential Development

11507 Beach Road East, Part of Lot 15, Concession 1, Geographic Township of  
Wainfleet, Welland County, Regional Municipality of Niagara, Ontario

Original Report

Prepared for:

**Ontario Ministry of Citizenship and Multiculturalism**

Prepared by:

Archaeological Licensee: Kristy O'Neal, M.A., P066

**Archaeological Consultants Canada**

1042 Garner Road West, Unit A101

Ancaster, ON L9G 3K9

[www.onarch.ca](http://www.onarch.ca)

[info@onarch.ca](mailto:info@onarch.ca)

289.683.7844

PIF #: P066-0480-2025 (Stage 1)

P066-0570-2025 (Stage 2)

Project No. 268-12-25

August 20, 2025

## EXECUTIVE SUMMARY

Archaeological Consultants Canada (ACC) was contracted by the Proponent to conduct a Stage 1 & 2 archaeological assessment, including background research and property survey, for a proposed residential development. An archaeological assessment was conducted during the pre-approval process and was required under the *Planning Act, R.S.O 1990*. The assessed area, or the “subject property”, is located at municipal address 11507 Beach Road East and is legally described as Part of Lot 15, Concession 1, Geographic Township of Wainfleet, Former County of Welland, now in the Regional Municipality of Niagara, Ontario. The subject property measures 0.03 hectares (ha). The Proponent verified the subject property limits as defined within this report.

The Stage 1 & 2 assessment was conducted under Professional Archaeological License P066, held by Kristy O’Neal. Fieldwork was conducted under the direction of Delaney Parent (R1349). The Ontario Ministry of Citizenship and Multiculturalism (MCM) assigned Project Information Form (PIF) number P066-0480-2025 (Stage 1) & P066-0570-2025 (Stage 2) to this project. The licensee of ACC received permission from the Proponent to access the property and to conduct all required archaeological fieldwork activities including the removal of artifacts, as necessary. The property was accessed on July 7, 2025.

Stage 1 background research indicated that the subject property has general archaeological potential due to the following factors:

- The subject property is largely comprised of well-drained land that is suitable for human habitation and agriculture
- Lake Erie is located adjacent to the subject property.
- There are 10 archaeological sites registered within 1 km of the subject property.
- The Niagara Region’s archaeological management plan indicates that the subject property has archaeological potential.

The subject property measures 0.03 ha. A visual property inspection determined that 0.02 ha of the subject property has been previously disturbed by modern construction activities and has low to no archaeological potential.

0.01 ha of the subject property retained archaeological potential and was recommended for Stage 2 assessment. 0.01 ha of the subject property consisted of manicured lawn and was assessed by test pit survey at 5 m intervals.

The following recommendation is provided for consideration by the Proponent and by the MCM:

1. No artifacts or other archaeological resources were identified during the Stage 1 & 2 archaeological assessment. The subject property has now been fully assessed according to MCM’s 2011 *Standards and Guidelines for Consultant Archaeologists*. No further archaeological assessment of the property is required.



## TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	2
LIST OF ABBREVIATIONS .....	5
PROJECT PERSONNEL.....	6
1.0 PROJECT CONTEXT .....	7
1.1 Development Context .....	7
1.2 Historical Context .....	8
1.2.1 Background Research .....	8
1.2.2 A Cultural Chronology for Southern Ontario .....	8
1.3 Archaeological Context .....	11
1.3.1 Natural Environment.....	11
1.3.2 Current Land Use .....	12
1.3.3 Previous Archaeological Investigations.....	12
1.3.4 Historical Plaques .....	14
1.3.4 Archaeological Master Plans .....	14
1.3.6 Cemeteries.....	15
2.0 FIELD METHODS .....	16
3.0 RECORD OF FINDS.....	17
3.1 Soils .....	17
3.2 Archaeological Resources.....	17
3.3 Documentary Record .....	17
4.0 ANALYSIS AND CONCLUSIONS .....	18
4.1 Potential for Archaeological Resources .....	18
4.2 Discussion .....	19
5.0 RECOMMENDATIONS.....	21
6.0 ADVICE ON COMPLIANCE WITH LEGISLATION .....	22
7.0 CLOSURE .....	23



8.0 BIBLIOGRAPHY AND SOURCES .....	24
9.0 IMAGES .....	27
10.0 FIGURES .....	30

#### LIST OF TABLES

---

1. General Cultural Chronology for Southern Ontario	9
2. Registered Archaeological Sites within 1 km of the Subject Property	13
3. Inventory of Documentary and Material Record	17

#### LIST OF FIGURES

---

1. Location of the Subject Property on a Topographic Map	
2. Location of the Subject Property on Tremaine's 1862 Map of the County of Welland	
3. Location of the Subject Property on H.R. Page & Co.'s 1876 Illustrated Historical Atlas Map of Wainfleet Township, County of Welland	
4. Location of the Subject Property on a Map of Niagara Region Soils	
5. Current Land Use of the Subject Property	
6. Previous Archaeological Assessments Conducted within 50 m of the Subject Property	
7. Location of the Subject Property on Niagara Region's Archaeological Potential Map	
8. Aerial Imagery Showing the Results of the Stage 1 & 2 Archaeological Assessment of the Subject Property	



## LIST OF ABBREVIATIONS

The following is a list of abbreviations and acronyms used throughout this report.

ACC	Archaeological Consultants Canada
CHVI	Cultural Heritage Value or Interest
cm	centimetre
ha	hectares
km	kilometre
m	metre
MCM	Ministry of Citizenship and Multiculturalism
OASD	Ontario Archaeological Sites Database
OHA	Ontario Heritage Act
PIF	Project Information Form
%	percent



## PROJECT PERSONNEL

Project Manager:	Matthew Muttart, M.A., P1208
Professional License:	Kristy O’Neal, M.A., P066
Field Director:	Delaney Parent B.Sc., R1349
Field Technicians:	Jaxson Parent Nicole Cholewka
Indigenous Representatives:	Sylas Brown (DOCA) Jackie Porter (ECO)
Report Preparation:	Zack Cousineau, B.A., R1335
Graphics:	Zack Cousineau, B.A., R1335



# Stage 1 & 2 Archaeological Assessment

## Proposed Residential Development

11507 Beach Road East, Part of Lot 15, Concession 1, Geographic Township of Wainfleet, Welland County, Regional Municipality of Niagara, Ontario

## 1.0 PROJECT CONTEXT

### 1.1 Development Context

Archaeological Consultants Canada (ACC) was contracted by the Proponent to conduct a Stage 1 & 2 archaeological assessment, including background research and property survey, for a proposed residential development. An archaeological assessment was conducted during the pre-approval process and was required under the *Planning Act, R.S.O 1990*. The assessed area, or the “subject property”, is located at municipal address 11507 Beach Road East and is legally described as Part of Lot 15, Concession 1, Geographic Township of Wainfleet, Former County of Welland, now in the Regional Municipality of Niagara, Ontario. The subject property measures 0.03 hectares (ha). The Proponent verified the subject property limits as defined within this report.

The objective of a Stage 1 background study is to provide information about the subject property’s geography, history, previous archaeological fieldwork, and current land conditions. A Stage 1 study evaluates the subject property’s archaeological potential in order to recommend appropriate strategies for the Stage 2 survey.

The objective of a Stage 2 property assessment is to document all archaeological resources present on the property and to make a determination about whether these resources, if present, have Cultural Heritage Value or Interest (CHVI). Archaeological resources consist of artifacts (Indigenous stone tools, pottery and subsistence remains as well as Euro-Canadian objects), subsurface settlement patterns and cultural features (post moulds, trash pits, privies, and wells), and sites (temporary camps and special purpose activity areas, plus more permanent settlements such as villages, homesteads, grist mills and industrial structures). If any archaeological resources are present that exhibit CHVI, a Stage 2 survey will determine whether these resources require further assessment and, if necessary, recommend appropriate Stage 3 strategies for identified archaeological sites.

The Stage 1 & 2 assessment was conducted under Professional Archaeological License P066, held by Kristy O’Neal. Fieldwork was conducted under the direction of Delaney Parent (R1349). The Ontario Ministry of Citizenship and Multiculturalism (MCM) assigned Project Information Form (PIF) number P066-0480-2025 (Stage 1) & P066-0570-2025 (Stage 2) to this project. The licensee of ACC received permission from the Proponent to access the property and to conduct

all required archaeological fieldwork activities including the removal of artifacts, as necessary. The property was accessed on July 7, 2025.

All fieldwork and reporting were completed using MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. This report documents the research, the field methods and results, and the conclusions and recommendations based on the Stage 1 & 2 archaeological assessment. All documents and records related to this project will be curated at the offices of ACC, in accordance with subsection 66(1) of the *Ontario Heritage Act* (OHA).

## 1.2 Historical Context

### 1.2.1 Background Research

Stage 1 background research was conducted to determine the potential for finding and identifying archaeological resources including sites within the current subject property and to determine the necessity of conducting a Stage 2 survey. This is done by reviewing geographic, archaeological, and historical data for the property and the surrounding area. The background research was conducted to:

- amass all the readily available information on any previous archaeological surveys in the area.
- determine the locations of any registered and unregistered sites within and around the subject property.
- develop an historical framework for assigning levels of potential significance to any new sites discovered during fieldwork.

### 1.2.2 A Cultural Chronology for Southern Ontario

Over their thousands of years of occupation in the general region, Indigenous peoples have left behind, to a greater or lesser degree, physical evidence of their lifeway activities and settlements at many locations. Based upon a published synthesis of Indigenous cultural occupations (Wright, 1968). Table 1 is a general outline of the cultural history of southern Ontario that is applicable to the subject property. Ellis and Ferris (1990) provide greater detail of the distinctive characteristics of each time period and cultural group. It should be noted that this general outline uses longstanding labels that are used to describe the archaeological record in North America. Archaeological terms like Paleoindian, Archaic, and Woodland, are used here as a way to divide time and should be treated as such.

It is likely that Ontario was occupied soon after the retreat of the Ice Age glaciers. The earliest known human occupation in the area was during the Paleoindian period (between 12,000 and 9,500 years ago) wherein small groups of nomadic peoples hunted big game such as caribou in a cool sub-arctic climate. Sites are typically found near glacial features such as the shorelines of glacial lakes or kettle ponds which would have allowed access to the low-lying environments that were favoured by caribou and other wildlife. These people were few and their small, temporary campsites are relatively rare. Paleoindian sites are recognized by the presence of



distinctive artifacts such as fluted projectile points, beaked scrapers, and gravers and by the preference for light colored chert, such as Collingwood chert. The Paleoindian Period is divided into two sub-periods, Early Paleoindian, and Late Paleoindian.

Table 1: General Cultural Chronology for Southern Ontario

PERIOD	SUBDIVISION I	SUBDIVISION II	YEARS BEFORE PRESENT	COMMENTS
PALEOINDIAN	Early Paleoindian	Fluted Point Horizon	12,000-10,500	big game hunters
	Late Paleoindian	Holcombe & Hi-Lo Horizons	10,500-9,500	small nomadic groups
ARCHAIC	Early Archaic	Side Notched Horizon	10,000-9,700	nomadic hunters and gatherers
		Corner-Notched Horizon	9,700-8,900	
		Bifurcate Horizon	8,900-8,000	
	Middle Archaic	Middle Archaic I/Stemmed Horizon	8,000-5,500	territorial settlements
		Middle Archaic II	5,500-4,500	polished ground stone tools
	Late Archaic	Narrow Point Horizon	4,500-3,500	
		Broad Point Horizon	4,000-3,500	
		Small Point Horizon (including Haldimand and Glacial Kame Complexes)	3,500-2,800	burial ceremonialism
	Early Woodland	Meadowood Complex	2,900-2,400	introduction of pottery
		Middlesex Complex	2,500-2,000	
WOODLAND	Middle Woodland	SW Ontario: Saugeen	2,300-1,500	long distance trade networks
		Western Basin: Couture	2,300-1,500	
	Transitional Woodland	SW Ontario:		
		Princess Point	1,500/1,400-1,200	incipient agriculture
		Western Basin:		
		Riviere au Vase	1500/1400-1200/1100	
	Late Woodland: Ontario Iroquois Tradition	Early: Glen Meyer	1200/100-750/700	transition to village life
		Middle I: Uren	720/700-710/670	large villages with palisades
		Middle II: Middleport	710/670-670/600	wide distribution of ceramic styles
		Late: Neutral	600-450	
	Late Woodland: Western Basin Tradition	Younge Phase	1200/1100-800	
		Springwells Phase	800-600	
		Wolf Phase	600-450	
HISTORIC	SW Ontario Iroquois	Historic Neutral	450-350	tribal warfare
	European Contact	Initial Contact	380-300	tribal displacement
		European Settlement	200 >	European settlement
		First Nations Resettlement	200 >	

(Compiled from Adams, 1994, Ellis *et al.*, 1990, Wright, 1968)

During the Archaic period (*circa* 10,000 to 2,800 years ago) people were still primarily nomadic hunters, but they adapted to a more temperate climate. Groups were dispersed during winter months and converged around watercourses from the spring to fall in large fishing campsites. The Archaic period is characterized by the appearance of ground stone tools, notched, or



stemmed projectile points. The Archaic Period is divided into three sub-periods, Early, Middle, and Late Archaic. During the Archaic Period, groups began to establish territorial settlements and introduce burial ceremonialism. There is a marked increase in the number and size of sites, especially during the Late Archaic period.

The Woodland period is distinguished by the introduction of pottery vessels for storage and cooking. Sites of the Woodland period (*circa* 3,000 to 400 years ago) are usually the most numerous because the population levels in southern Ontario had significantly increased, especially along the shores of Lakes Erie and Ontario. The Woodland Period is also marked by the establishment of complex long distance trading networks. The Woodland Period is divided into three sub-periods, Early, Middle and Late Woodland. During the Late Woodland Period, there is increasing sedentarism and the establishment of horticulture, a reliance on tribal warfare, and the introduction of semi-permanent villages with large protective palisades. The Late Woodland period also envelops the emergence of Iroquoian tribes and confederacies.

The historic period (from A.D. 1650 to 1900) begins with the arrival of Euro-Canadian groups. Sites of this period document European exploration, trade, and the displacement and devastation of native groups caused by warfare and infectious disease. The most common sites of this period include Euro-Canadian homesteads, industries, churches, schools, and cemeteries.

While North America had been visited by Europeans on an increasing scale since the end of the 15<sup>th</sup> century, the first European to venture into what would become southern Ontario was Étienne Brûlé. Brûlé was sent by Samuel de Champlain in the summer of 1610 to consolidate an emerging relationship between the French and the First Nations, and to learn their languages and customs. Other Europeans would subsequently be sent by the French to train as interpreters. These men played an essential role in communications with the First Nations (Gervais and Rothe, 2004:182).

The late 17<sup>th</sup> and early 18<sup>th</sup> centuries saw the growth and spread of the fur trade, with the establishment and maintenance of trading posts along the Great Lakes. In 1754, hostilities over trade and the territorial ambitions of the French and the British led to the Seven Years' War, which ended when the French surrendered in 1760 (Smith, 1987:22). In addition to cementing British control over the Province of Quebec, the British victory over the French also proved pivotal in catalyzing the Euro-Canadian settlement process.

During pre-contact and early contact times, the vicinity of the subject property would have contained a mixture of deciduous trees, coniferous trees, and open areas. In the early 19<sup>th</sup> century, Euro-Canadian settlers arrived via easily accessible colonization routes and began to clear the forests for agricultural purposes. In the 19<sup>th</sup> and early 20<sup>th</sup> centuries, the subject property and surrounding land were primarily used for agricultural purposes. Mixed farming was common, with wheat crops and beef cattle dominating the landscape (Chapman and Putnam, 1984:177).

The subject property was historically located on Part of Lot 15, Concession 1, in the Geographic Township of Wainfleet, County of Welland. In 1791, the provinces of Lower Canada and Upper Canada were created from the former province of Quebec by a British parliamentary act. Colonel

John Graves Simcoe was appointed as the Lieutenant Governor of Upper Canada and was tasked with governing and directing its settlement, as well as establishing a constitutional government based on Britain's model (Coyne et al, 1895:33).

Welland County was formed in 1851, when land from the southern section of Lincoln County broke away (Mika & Mika, 1983). The county was named after the Welland River, which, in turn, was named by John Graves Simcoe, after a stream in Lincolnshire, England (Middleton & Landon, 1927). The townships in this county were among the earliest settlements in Upper Canada, made up of United Empire Loyalists who came to the area after the American Revolutionary war (Carter, 1984). The building of the first Welland Canal in the 1820's also helped stimulate the growth of settlement in the area (Mika & Mika, 1983). The earliest recorded European visitor to the county is Father Louis Hennepin, who explored the area as a missionary in 1678. He is best known for publishing an account of his travels, which include the first written description of Niagara Falls, published in 1689 (Page, 1876).

The Township of Wainfleet was named in 1798 after Wainfleet All Saints in Lincolnshire, England (Rayburn, 1997). Settlement of the township was slower than in other in the area, but by 1817 there were 72 inhabited houses and a sawmill within Wainfleet Township (H.R. Page & Co., 1876). By 1841, the population of the township of the township was 1,147 – mainly comprised of Canadian born residents, with a few Dutch, Irish, and English families (Smith, 1846).

Historical records and mapping were examined for evidence of early Euro-Canadian occupation within and near the subject property in the mid- to late 19<sup>th</sup> century. Tremaine's 1862 *Map of the County of Welland* indicates that at that time there is no owner depicted owning the portion of the lot that contains the subject property (Figure 2). The subject property is located adjacent to Lake Erie.

H.R. Page & Co.'s 1876 map of Wainfleet Township in the *Illustrated Historical Atlas of the Counties of Lincoln and Welland* indicates that an A. Kinnard now owns the southern portion of Lot 15, Concession 1 that contains the current subject property (Figure 3). The subject property is still located adjacent to Lake Erie.

It should be noted that while no structures are illustrated within the subject property on the historical atlas maps, it does not necessarily mean that one or more structures were not present at that time, earlier or later. Not all features of interest were mapped systematically on the Ontario series of historical maps and atlases, given that they were financed by subscription, and subscribers were given preference regarding the level of detail provided on the maps (Caston, 1977:100).

## 1.3 Archaeological Context

### 1.3.1 Natural Environment

The subject property is located within the Haldimand Clay Plain physiographic region (Chapman and Putnam, 1984:113). Lying between the Niagara Escarpment and Lake Erie, this area is made up of a series of parallel belts that were once submerged in Lake Warren. The highest ground

adjoins the Niagara Escarpment. The main part of Welland County is characterized by level topography and poor drainage and several square miles are covered in peat bogs. The drainage in the belt is controlled by several parallel streams, such as Twenty Mile Creek, Forty Mile Creek, and the Welland River (Chapman and Putman, 1984:157).

The *Soils of the Regional Municipality of Niagara* (Kingston and Presant, 1989) indicates that the subject property is not mapped as it is within a built-up area along Lake Erie (Figure 4).

Water has been identified as the major determinant of site selection and the presence of potable water is the single most important resource necessary for any extended human occupation or settlement. Primary water sources include, among others, lakes, rivers, creeks, and streams. Secondary water sources include intermittent streams, creeks, springs, marshes, and swamps. Past water sources, such as raised beach ridges, relic water channels, and glacial shorelines are also considered to have archaeological potential. Swamps and marshes are also important as resource extraction areas, and any resource areas are considered to have archaeological potential. The nearest water source is Lake Erie located along the southern edge of the subject property.

### 1.3.2 Current Land Use

Figure 5 provides the current land use of the subject property. The subject property is currently used for residential purposes. Surrounding properties are comprised of residential/cottage buildings. Lake Erie is located directly south of the property

Fieldwork for the project was conducted on July 7, 2025.

### 1.3.3 Previous Archaeological Investigations

#### 1.3.3.1 Registered Archaeological Sites

Previously registered archaeological sites can be used to indicate archaeological potential. To determine if any previous assessments have yielded archaeological sites, either within or surrounding the current subject property, two main sources were consulted. These include the *Ontario Archaeological Sites Database* (OASD) and the *Public Register of Archaeological Reports*, both of which are maintained by MCM.

The OASD contains archaeological sites registered within the Borden system (Borden, 1952). The Borden system divides Canada into 13 km by 18.5 km blocks based on longitude and latitude. Each Borden block is designated with a four-letter label and sites identified within the block are numbered sequentially as they are registered. The subject property is located within the *AfGu* Borden block.

According to the OASD, no archaeological sites have been registered within the subject property, however, 10 sites have been registered within 1 km of the subject property (MCM, 2025a). The nearest of these sites is over 300 m from the current subject property. Two sites are of Euro-Canadian cultural affiliation and include a farmstead. Two sites are of Indigenous cultural affiliation and include a hunting site. Six of the sites are of unknown cultural affiliation.

Table 2 lists the sites within 1 km along with the current CHVI for each site. CHVI is a term used by MCM and consultant archaeologists to describe archaeological resources that meet one or more criteria that recommend further fieldwork in MCM's *Standards and Guidelines for Consultant Archaeologists*. Under the OHA and its regulations, archaeological resources that have been determined to possess CHVI are protected as archaeological sites under Section 48 of the act. Information in Table 2 is provided by MCM through the OASD (MCM, 2024a).

Table 2: Registered Archaeological Sites within 1 km of the Subject Property

REG. #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AfGu-98	Burnaby South	Pre-Contact	Indigenous	hunting	No Further CHVI
AfGu-97	Burnaby North	Pre-Contact	Indigenous	hunting	Further CHVI
AfGu-96	Minor-Schooley	Post-Contact	Euro-Canadian	farmstead	Further CHVI
AfGu-59	Lakeshore Beaches Property	Post-Contact	Euro-Canadian	Unknown	No Further CHVI
AfGu-58	Harbourview 6				Further CHVI
AfGu-57	Harbourview 5				Unknown CHVI
AfGu-56	Harbourview 4				Unknown CHVI
AfGu-55	Harbourview 3				Unknown CHVI
AfGu-54	Harbourview 2				Unknown CHVI
AfGu-50	AfGu-50				Unknown CHVI

Information concerning specific site locations is protected by provincial policy and is not fully subject to the *Freedom of Information Act*. The release of such information in the past has led to looting or various forms of illegally conducted site destruction. Confidentiality extends to all media capable of conveying location, including maps, drawings, or textual descriptions of a site location. MCM will provide information concerning site location to the party or an agent of the party holding title to a property, or to a licensed archaeologist with relevant cultural resource management interests.

### 1.3.3.2 Previous Archaeological Reports

A review of archaeological reports within the *Public Register of Archaeological Reports* indicated that no reports detailing previous archaeological fieldwork within the subject property have been entered into MCM's register at the time this report was written (MCM, 2025b). There are two reports detailing previous fieldwork within 50 m of the subject property within the register. Reports were searched based on registered site information, historic lots and concessions, and nearby streets. Figure 6 shows the location of these assessments in relation to the current subject property.

***Stage 1 & 2 Archaeological Assessment, Proposed Development of 11507 Beach Road, Part of Lots 14 & 15, Concession 1, Geographic Township of Wainfleet, Regional Municipality of Niagara, Ontario. Archaeological Consultants Canada, 2023. PIF P1208-0215-2023.***

ACC conducted a Stage 1 & 2 archaeological assessment of a 0.04 ha property located directly north of the current subject property. The entirety of the subject property was determined to retain archaeological potential was subject to test pit survey at 5 m intervals. No archaeological resources were discovered, and no further fieldwork was recommended (ACC, 2023).

***Stage 1-2 Archaeological Assessment, Proposed Development of Part of Lot 14, Concession 1, Geographic Township of Wainfleet, Regional Municipality of Niagara, Ontario. Archaeological Consultants Canada, 2025. PIF P066-0574-2025.***

ACC conducted a Stage 1 & 2 archaeological assessment of a 0.19 ha property located 40 m north of the current subject property. The entirety of the subject property was determined to retain archaeological potential was subject to test pit survey at 5 m intervals. No archaeological resources were discovered, and no further fieldwork was recommended (ACC, 2025).

#### 1.3.4 Historical Plaques

MCM's *Standards and Guidelines for Consultant Archaeologists* (MCM, 2011:17) stipulates that areas of early Euro-Canadian settlement (including places of early military pioneer settlement, pioneer homesteads, isolated cabins, farmstead complexes, early wharf or dock complexes, pioneer churches, and early cemeteries) are considered to have archaeological potential. There may be commemorative markers of their history, such as local, provincial, or federal monuments, plaques, cairns, or heritage parks. Early historical transportation routes (trails, passes, roads, railways, portage routes), properties listed on a municipal register or designated under the OHA or a federal, provincial, or municipal historic landmark or site, and properties that local histories or informants have identified with possible archaeological sites, historical events, activities, or occupations are also considered to have archaeological potential.

There are no plaques or commemorative markers within or near the subject property (Ontario Provincial Plaques, 2025).

#### 1.3.4 Archaeological Master Plans

As part of the official planning process, Niagara Region developed an archaeological management plan. The document, *Niagara Region Archaeological Management Plan*, provides information about the archaeological history of the region, the Ontario archaeological assessment process, and sets out the process for integrating the archaeological assessment and development review processes (Niagara Region, 2024). The document also includes an Archaeological Potential Model for Niagara Region which highlights the lands within the Region that contain archaeological potential. Potential for lands to contain archaeological resources is based on the proximity of those lands to features such as water, well drained soils, known archaeological sites, and early Euro-Canadian settlements. The potential model takes into consideration deep and extensive land alterations that have removed archaeological potential from the Region (Niagara



Region, 2024). A review of this potential model indicates that the current subject property is in a zone considered to have archaeological potential (Figure 7).

#### 1.3.6 Cemeteries

A search of the subject property and surrounding area determined that there were no cemeteries located within or near the subject property. The Bereavement Authority of Ontario's Public Register does not list any cemeteries within the subject property (Bereavement Authority of Ontario, 2025).





## 2.0 FIELD METHODS

The subject property measures 0.03 ha. The Stage 1 & 2 assessment were conducted concurrently on July 7, 2025, with advance permission to enter the subject property obtained from the Proponent. Weather conditions during the assessment were excellent, with clear skies and maximum daily high temperature of 38 degrees Celsius.

The Stage 1 assessment of the subject property began with an on-site property inspection to gain first-hand knowledge of the geography, topography, and current condition of the property. The entirety of the subject property was accessible and was inspected. Appropriate photographic documentation was taken during the visual inspection. Coverage of the property was sufficient to identify the presence or absence of features of archaeological potential, meeting the requirements of Section 1.2 Standard 1 of the *Standards and Guidelines for Consultant Archaeologists*.

Areas of low to no archaeological potential include lands that have been previously disturbed, lands that have steeply sloping topography, and lands that are low-lying and permanently wet. 0.02 ha, 66% of the subject property, has been previously disturbed by intensive and extensive modern soil alterations, including for construction of a residential home and driveway with utilities.

The remainder of the subject property, totaling 0.01 ha, 33%, was determined to retain archaeological potential and require Stage 2 archaeological assessment. 0.01 ha, 33%, of the subject property consists of manicured lawn. As these lands could not be ploughed, Stage 2 archaeological assessment was conducted by test pit survey at 5 m intervals in accordance with Section 2.1.2 of the *Standards and Guidelines for Consultant Archaeologists*. Each test pit was dug by hand and was 30 centimetres (cm) in diameter and was dug to at least 5 cm into the subsoil or to a sufficient depth to confirm deep disturbance if subsoil was not preserved. Test pits were examined for stratigraphy, cultural features, or evidence of fill. Test pits were dug to within one m of all disturbances and other areas of low archaeological potential. All soil was screened through 6-millimetre mesh to maximize the potential for artifact recovery. Appropriate photographic documentation was taken, and all test pits were backfilled upon completion. As no artifacts were observed during the test pit assessment no intensified survey was conducted.

There were no weather, ground, or lighting conditions detrimental to the recovery of artifacts. As such, it is confirmed that the Stage 2 assessment met Section 1.2 Standard 2 and Section 2.1 Standard 3 of the *Standards and Guidelines for Consultant Archaeologists* regarding weather and lighting.

The entirety of the subject property was assessed. The results of the Stage 1 & 2 assessment are shown in Figure 8. Images of the assessment are provided in Section 9.0.



## 3.0 RECORD OF FINDS

### 3.1 Soils

Test pits contained approximately 20 to 60 cm of mixed and mottled soil. All soil encounters were previously disturbed and included, concrete and other unnatural materials. Subsoil was comprised of beach sand subsoil (Images 7 & 8).

### 3.2 Archaeological Resources

No artifacts or other archaeological resources were observed during the Stage 1 & 2 assessment of the subject property.

### 3.3 Documentary Record

All fieldwork-related activities were documented and kept, including field notes and observations and detailed maps. Appropriate photographic records were kept of the assessment and all image descriptions were recorded in a photo log.

A detailed list of field records is presented in Table 3. All digital items have been duplicated and all paper items have been scanned and stored as digital documents. All items are housed in the corporate offices of ACC.

Under Section 6 of Regulation 881 of the OHA, ACC will keep in safekeeping all objects of archaeological significance that are found under the authority of the license and all field records that are made in the course of the work authorized by the license, except where the objects and records are donated to His Majesty the King in right of Ontario or are directed to be deposited in a public institution under subsection 66 (1) of the Act.

Table 3: Inventory of Documentary and Material Records

PROJECT INFORMATION		
ACC project number	268-12-25	
Licensee	Kristy O'Neal	
MCM PIF numbers	P066-0480-2025 (Stage 1) & P066-0570-2025 (Stage 2)	
DOCUMENT/MATERIAL	NUMBER	DESCRIPTION
field notes & photo logs	1	pages (paper, with digital copies)
maps	1	aerial imagery of subject property
photographs	7	digital colour photographs

## 4.0 ANALYSIS AND CONCLUSIONS

### 4.1 Potential for Archaeological Resources

Archaeological potential is defined as the likelihood of finding archaeological sites within a subject area. For planning purposes, determining archaeological potential provides a preliminary indication that significant sites might be found within the subject area, and consequently, that it may be necessary to allocate time and resources for archaeological survey and mitigation.

The framework for assigning levels of potential archaeological significance is drawn from provincial guidelines found in the *Standards and Guidelines for Consultant Archaeologists* (MCM, 2011: Sections 1.3.1 and 1.3.2). The following are features or characteristics that can indicate archaeological potential:

- previously identified archaeological sites
- water sources (It is important to distinguish types of water and shoreline, and to distinguish natural from artificial water sources, as these features affect site locations and types to varying degrees.).
  - primary water sources (e.g., lakes, rivers, streams, creeks)
  - secondary water sources (e.g., intermittent streams and creeks, springs, marshes, swamps)
  - features indicating past water sources (e.g., glacial lake shorelines indicated by the presence of raised sand or gravel beach ridges, relic river or stream channels indicated by clear dip or swale in the topography, shorelines of drained lakes or marshes, cobble beaches)
  - accessible or inaccessible shoreline (e.g., high bluffs, swamp or marsh fields by the edge of a lake, sandbars stretching into marsh)
- elevated topography (e.g., eskers, drumlins, large knolls, plateaus)
- pockets of well-drained sandy soil, especially near areas of heavy soil or rocky ground
- distinctive land formation that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases. There may be physical indicators of their use, such as burials, structures, offerings, rock paintings or carvings.
- resource areas, including:
  - food or medicinal plants (e.g., migratory routes, spawning areas, prairie)
  - scarce raw materials (e.g., quartz, copper, ochre or outcrops of chert)
  - early Euro-Canadian industry (e.g., fur trade, logging, prospecting, mining)



- areas of early Euro-Canadian settlement. These include places of early military or pioneer settlement (e.g., pioneer homesteads, isolated cabins, farmstead complexes), early wharf or dock complexes, pioneer churches and cemeteries. There may be commemorative markers of their history, such as local provincial, or federal monuments or heritage parks
- early historical transportation routes (e.g., trails, passes, roads, railways, portages)
- property listed on a municipal register or designated under the OHA or that is in a federal, provincial, or municipal historic landmark site
- property that local histories or informants have identified with possible archaeological sites, historical events, activities, or occupations

Archaeological potential can be determined not to be present for either the entire property or parts of it when the area under consideration has been subject to extensive and deep land alterations that have severely damaged the integrity of any archaeological resources. This is commonly referred to as “disturbed” or “disturbance” and may include:

- quarrying
- major landscaping involving grading below topsoil
- building footprints
- sewage and infrastructure development
- activities such as agricultural cultivation, gardening, minor grading, and landscaping do not necessarily affect archaeological potential.

## 4.2 Discussion

Section 1.3.1 of the *Standards and Guidelines for Consultant Archaeologists* (MCM, 2011) lists criteria indicative of archaeological potential. Stage 1 background research indicated that the subject property has general archaeological potential due to the following factors:

- The subject property is largely comprised of well-drained land that is suitable for human habitation and agriculture
- Lake Erie is located adjacent to the subject property.
- There are 10 archaeological sites registered within 1 km of the subject property.
- The Niagara Region’s archaeological management plan indicates that the subject property has archaeological potential.

Given the above criteria, background archival research indicates that the subject property exhibits general archaeological potential for the discovery of both pre/post-contact Indigenous and Euro-Canadian archaeological resources therefore, a Stage 2 archaeological assessment was required.



The subject property measures 0.03 ha. A visual property inspection determined that 0.02 ha of the subject property has been previously disturbed by modern construction activities and has low to no archaeological potential.

0.01 ha of the subject property retained archaeological potential and was recommended for Stage 2 assessment. 0.01 ha of the subject property consisted of manicured lawn and was assessed by test pit survey at 5 m intervals.

No artifacts or other archaeological resources were identified during the Stage 1 & 2 archaeological assessment.



## 5.0 RECOMMENDATIONS

Subject to acceptance of the results and approval of the recommendations, MCM is requested to deem this report compliant with ministry requirements for archaeological fieldwork and reporting and to issue a letter accepting this report into the *Ontario Public Register of Archaeological Reports*.

The following recommendation is provided for consideration by the Proponent and by the MCM:

1. No artifacts or other archaeological resources were identified during the Stage 1 & 2 archaeological assessment. The subject property has now been fully assessed according to MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. No further archaeological assessment of the property is required.



## 6.0 ADVICE ON COMPLIANCE WITH LEGISLATION

The following advice on compliance with current legislation is provided for consideration:

- a. This report is submitted to the Minister of Citizenship and Multiculturalism as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c O.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 Citizenship and Multiculturalism, 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 licensed 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 a 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 Archaeological 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 licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*.
- d. The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 (when proclaimed in force) requires that any person discovering human remains must notify the police or coroner and the Registrar, Burials Unit, at the Ministry of Public and Business Service Delivery and Procurement.



## 7.0 CLOSURE

This report was prepared for the exclusive use of the Proponent, unless otherwise expressly stated in the report or contract. This report documents work that was performed in accordance with the accepted professional standards at the time and location in which the services were provided.

The report is based solely on data and information collected during the archaeological assessment as described in this report. All information received from the Proponent or third parties in the preparation of this report has been assumed by ACC to be factual and accurate. ACC assumes no responsibility for any deficiency, misstatement, or inaccuracy in information received from others. ACC disclaims any obligation to update this report for events or information that becomes available to ACC after the assessment has been completed.

Conclusions made within this report consist of ACC's professional opinion as of the time of the writing of this report and are based solely on the scope and extent of work described in the report, the limited data available, and the results of the work. The conclusions are based on the conditions encountered by ACC at the time the work was performed. Due to the nature of archaeological assessment, which consists of systematic sampling, it is possible that unforeseen and undiscovered archaeological resources may be present within the assessed area. ACC does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire property. No other representations, warranties, or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential archaeological resources associated with the identified property.

Any use of this report by any third party is prohibited. This report is not to be given over to any third party, for any purpose whatsoever, without the written permission of ACC, which shall not be unreasonably withheld. Any use which a third party makes of this report, in whole or in part, or any reliance on or decisions to be made based on any information and conclusions in the report, are the responsibility of the third party. ACC assumes no responsibility for losses, damages, liabilities or claims of any kind whatsoever, howsoever arising, from third party use of this report.

ACC makes no other representations whatsoever, including those concerning the legal significance of the report's findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein.

## 8.0 BIBLIOGRAPHY AND SOURCES

Adams, Nick

1994 *Field Manual for Avocational Archaeologists in Ontario*. Publication No.16, Ontario Archaeological Society Inc.

Archaeological Consultants Canada (ACC)

2023 *Stage 1 & 2 Archaeological Assessment, Proposed Development. 11507 Beach Road, Part of Lot 14 & 15, Concession 1, Geographic Township of Wainfleet, Regional Municipality of Niagara, Ontario*. PIF P1208-0215-2023.

2025 *Stage 1 & 2 Archaeological Assessment, Proposed Residential Development, Part of Lot 14, Concession 1, Geographic Township of Wainfleet, Welland County, Regional Municipality of Niagara, Ontario*. PIF P066-0574-2025.

Armstrong, G.H.

1930 *The Origin and Meaning of Place Names in Canada*. MacMillan: Toronto.

Borden, Charles E.

1952 A Uniform Site Designation Scheme for Canada. *Anthropology in British Columbia*, No. 3, 44-48.

Carter, Floreen Ellen

1984 *Place Names of Ontario*. Phelps, London.

Caston, Wayne

1997 Evolution in the Mapping of Southern Ontario and Wellington County. *Wellington County History*. 10:91-106.

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

1984 *The Physiography of Southern Ontario*. 3<sup>rd</sup> edition. Ministry of Natural Resources

Coyne, James, C. O. Ermatinger, K. W. McKay

1895 *Historical Sketches of the County of Elgin*. Elgin Historical and Scientific Institute, St. Thomas.

Ellis, Chris & Neal Ferris

1990 *The Archaeology of Southern Ontario to A.D. 1650*. Occasional Publication No. 5. London Chapter, Ontario Archaeological Society Inc.

Energy Mines and Resources Canada

1999 *Map 30-L/14, Welland*. 1:50,000 scale National Topographic System map.

Gervais, Gaetan and Kathe Roth

2004 Champlain and Ontario (1603-35). In *Champlain: The Birth of French America*,



ACC

ARCHAEOLOGICAL  
CONSULTANTS CANADA



edited by R. Litalien and D. Vaugeois, pp. 180-190. Montreal: McGill-Queen's Press.

H.R. Page & Co.

1876 *Illustrated Historical Atlas of the Counties of Lincoln and Welland, Ontario*. Toronto.

Kingston, M.S. & E.W. Presant

1989 *The Soil Survey of the Regional Municipality of Niagara*. Report No. 60 of the Ontario Soil Survey. Experimental Farms Service, Canada Department of Agriculture, and the Ontario Agricultural College, Guelph.

Middleton, Jesse Edgar & Fred Landon

1927 *Province of Ontario -- A History 1615 to 1927*. Dominion Publishing Company, Toronto

Mika, Nick and Helma Mika

1983 *Places in Ontario: Their Name Origins and History. Part II, N-Z*. Mika Publishing Company, Belleville.

Ministry of Citizenship and Multiculturalism (MCM)

2005 *The Heritage Act, R.S.O. 2005*. Queen's Printer, Toronto.

2011 *Standards and Guidelines for Consultant Archaeologists*. Toronto.

2025a Sites within a 1 km radius of the subject property. Provided from the *Ontario Archaeological Sites Database*.

2025b Archaeological assessments completed within the subject property or within 50 m of the subject property. Provided from the *Ontario Public Register of Archaeological Reports*.

Ministry of Natural Resources and Forestry

2025 *Ontario Topographic Map*.

[https://www.lioapplications.lrc.gov.on.ca/MakeATopographicMap/index.html?viewer=Make\\_A\\_Topographic\\_Map.MATM&locale=en-CA](https://www.lioapplications.lrc.gov.on.ca/MakeATopographicMap/index.html?viewer=Make_A_Topographic_Map.MATM&locale=en-CA)

[Accessed August 20, 2025].

Ministry of Northern Development and Mines

2007 *Physiography of Southern Ontario*. Chapman, L.J. and D.F. Putnam, authors. GIS map data layer distributed by the Ontario Geological Survey as Miscellaneous Release – Data (MRD) 228. Queen's Printer for Ontario.

<http://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearch>.

[Accessed August 20, 2025].

Niagara Region

2024 *Niagara Region General Interactive Map with Archaeological Potential*

<https://navigator.niagararegion.ca/portal/apps/webappviewer/index.html?id=4500745f3cd141ddb707913a444e7886>

[Accessed August 20, 2025]



ACC

ARCHAEOLOGICAL  
CONSULTANTS CANADA

Ontario Ministry of Agriculture, Food and Rural Affairs

2012 GIS Layers for Soils and Physiography in the Province of Ontario.

<http://sis.agr.gc.ca/cansis/publications/surveys/on/index.html>

[Accessed August 20, 2025].

Smith, D. B.

1987 *Sacred Feathers: The Reverend Peter Jones (Kahkewaquonaby) and the Mississauga Indians*. Toronto: University of Toronto Press.

Tremaine, George R

1862 *Tremaine's Map of the County of Welland*. George R. Tremaine, Publisher.

H.R. Page & Co.

1876 *Illustrated Historical Atlas of the Counties of Lincoln and Welland, Ontario*. Toronto.

Wright James V.

1968 *Ontario Prehistory: an eleven thousand-year archaeological outline*. Archaeological Survey of Canada, National Museums of Canada, Ottawa.



ACC

ARCHAEOLOGICAL  
CONSULTANTS CANADA

## 9.0 IMAGES





Stage 1 & 2 Archaeological Assessment  
11507 Beach Road East  
Township of Wainfleet, R. M. of Niagara, ON



Image 1: Subject property, facing south from north corner.



Image 2: Subject property, facing east from west corner.



Image 3: Subject property, facing north from south corner.



Image 4: Subject property, facing west from east corner



Image 5: Subject property, facing southwest from northern portion.



Image 6: Disturbed test pit.





Image 7: Disturbed test pit.



## 10.0 FIGURES

See the following pages for detailed assessment mapping and figures.





Figure 1: Location of the Subject Property on a 1:50,000 Scale Topographic Map



Figure 2: Location of the Subject Property on Tremaine's 1862 Historical Map of Welland County

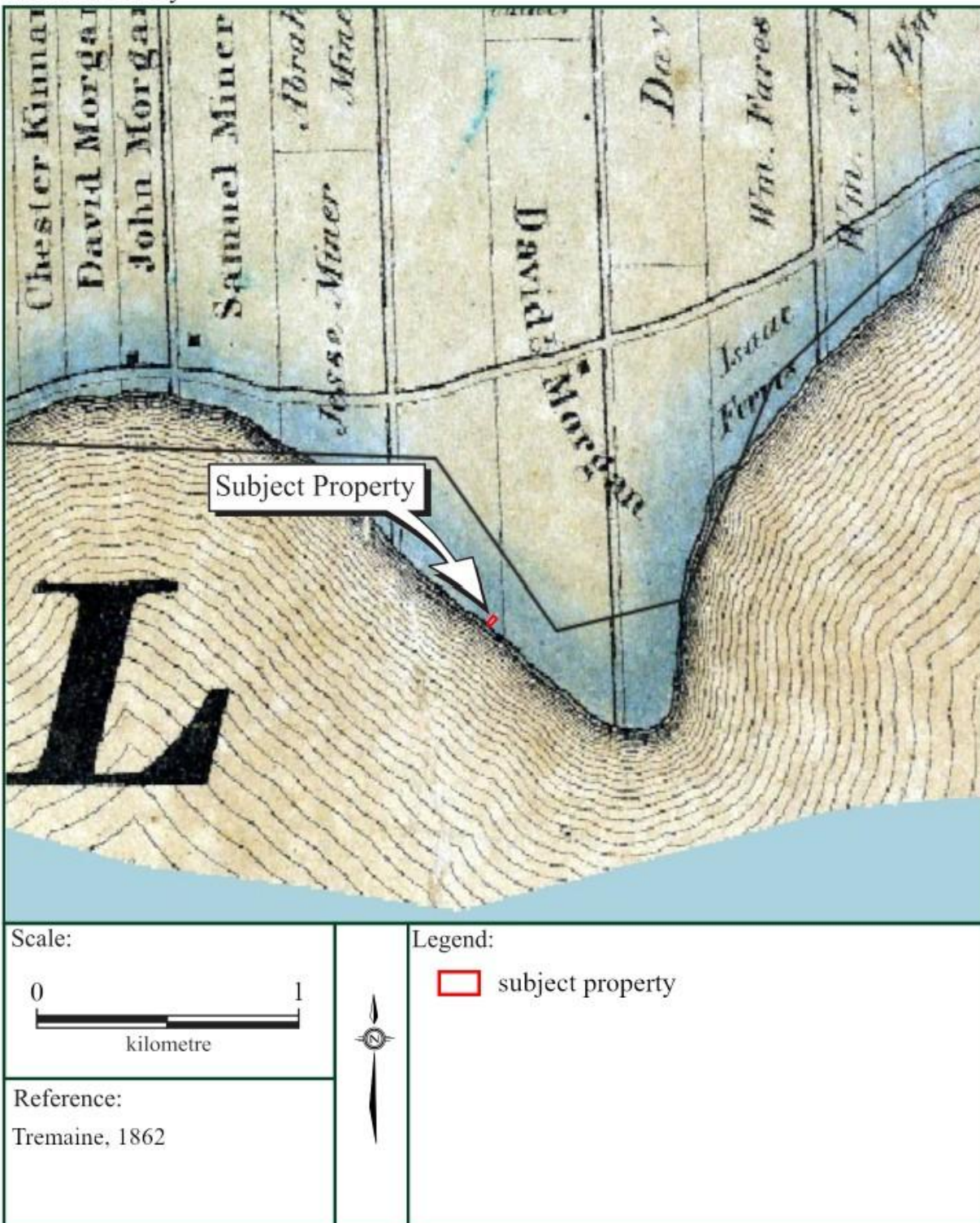




Figure 3: Location of the Subject Property on H. R Page & Co.'s 1876 Historical Atlas Map of Wainfleet Township, Welland County

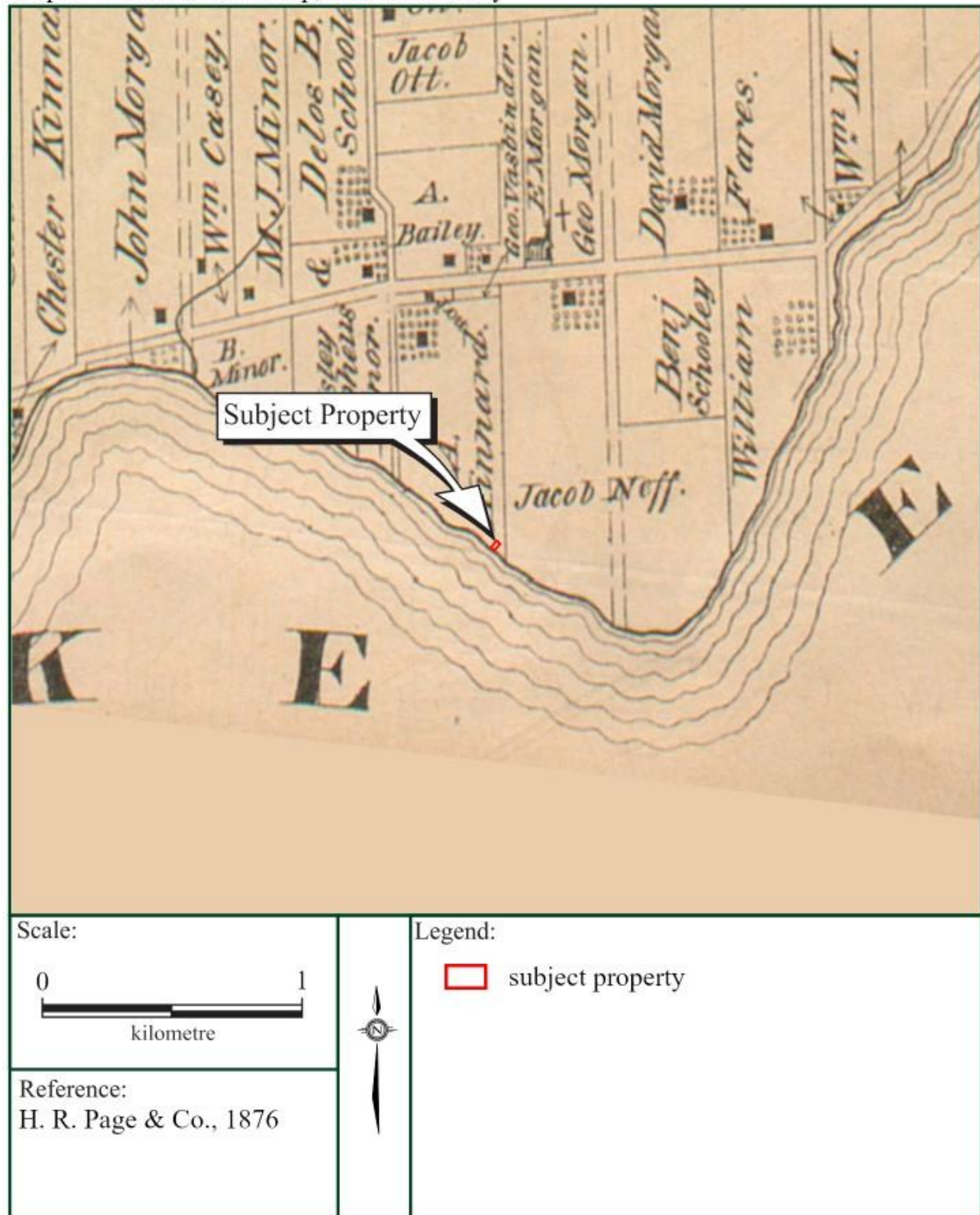




Figure 5: Current Land Use of the Subject Property





Figure 6: Previous Archaeological Assessments Conducted within 50 m of the Subject Property



Figure 7: Location of the Subject Property on Niagara Region's Archaeological Potential Map





Figure 8: Aerial Photograph Showing the Results of the Stage 1 & 2 Archaeological Assessment of the Subject Property with Image Locations

